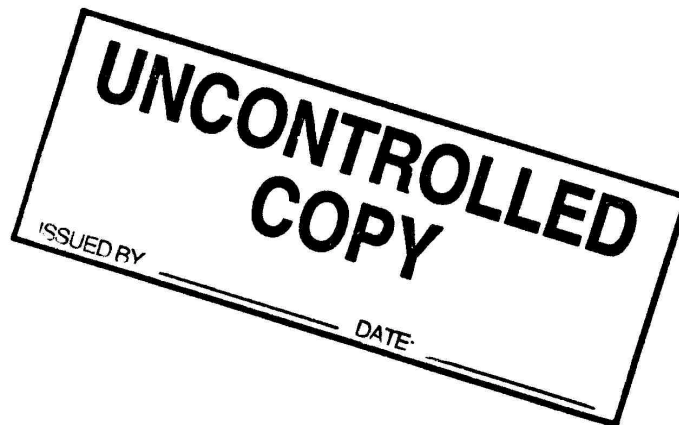




19220 San Jose Ave. City of Industry, CA 91748-1497
Toll Free: 800-525-6219 or call: 626-965-0668 Fax: 626-965-2410

Exploded Illustrations

All drawings in this document are:



Tips: Try using the up and down arrows to navigate the index. Use "ctrl+F" to find part numbers fast. Click on part number or page number to view.

INDEX PAGE I

CLICK ON PART NUMBER TO VIEW

CDI PART NUMBER	DRAWINGS	PAGE
1002MFRMH	46-232-TAB	1
10002-I-TTPL	342-8-02L	2
10002KMRMH	46-530-TAB	3
10002MMH	46-239-TAB	4
10002MR	46-132-2	5
10002MRMH	46-243-TAB	6
10002MRMH GSA	46-235-2	7
10002MRMH-QR	46-243-TAB	6
10005CF	171-90	8
10005CF-II	1300-172-TAB	9
10005LDF	178-50-TAB	10
10005LD FE	174-70-TAB	11
10005LDFN	178-60-TAB	12
10005MFMH	216-431-TAB	13
10005MFRMH	216-433-TAB	14
1001SMOA	275-169	15
1001SPO	275-68	16
1001SPOA	275-168-TAB	17
1002MFMH	46-240-TAB	18
1002MFRMH	46-244-TAB	19
1002MFRMH-QR	46-244-TAB	19
1002NMRMH	46-630-TAB	20
1002NMRPH	46-731-TAB	21
1002NMRPHS	46-730-TAB	22
1003LD FE	84-171-TAB	23
1003LD FE	84-371-TAB	24
1003LDFN	88-161-TAB	25,26
1003LDFN	88-161-8	27
1003LDFN	88-162-TAB	28
1003LDFN	88-361-TAB	29
100LDFNI	264-172-TAB	30
101SMC	275-67-TAB	31
101SMC	275-338-TAB	32
101SMCH	275-243	33
1253-F-TTPL	342-10-02L	34
14003KMRMH	46-532-TAB	35
15005NMRMH	216-633-TAB	36
15005NMRPH	216-733-TAB	37
1501-I-TTPL	342-65-02L	38
1501M	61-131-2	39
1501MMH	61-338-TAB	40
1501MR	61-132-2	41
1501MRMH	61-232-2	42
1501MRMH	61-333-TAB	43
1501MRMH-QR	61-333-TAB	43
1501TPA	25-50	44

CDI PART NUMBER	DRAWINGS	PAGE
1502KMRMH	61-534-TAB	45
1502LDI	238-152-TAB	46
1502LDIE	238-170-TAB	47
1502LDIN	238-162-TAB	48
1502M	61-131-2	39
1502MR	61-132-2	41
1502MRMH COMM	61-337-TAB	49
1503MFMH COMM	96-242-TAB	50
1503MFR	96-132-1	51
1503MFRMH COMM	96-335-TAB	52
1503MFRMH-QR	96-335-TAB	52
150ITP	25-68	53
150LDINI	374-62-TAB	54
150MFIMH	96-542-TAB	55
151LDIN	238-165-TAB	56
16003M	96-132-1	51
16003M	96-132-1	51
16003MMH	96-238-TAB	57
16003MRMH-CDI	96-234-TAB	58
16003MRMH-QR	96-234-TAB	58
1753LDF	88-51-45	59
1753LD FE	84-171-TAB	23
1753LD FE	84-371-TAB	24
1753LDFN	88-161-TAB	25,26
1753LDFN	88-161-7	60
1753LDFN	88-162-TAB	28
1753LDFN	88-361-TAB	29
175LDFNI	264-72-TAB	61
175LDFNI	264-172-TAB	30
20005KLDFN	285-70-TAB	62
20005LD FE	284-70-TAB	63
20005LD FNX	285-70-TAB	62
20005TM	315-42-TAB	64
20006LD FE	284-70-TAB	62
2001M	61-131-2	39
2001MR	61-132-2	41
2001MRMH	61-232-3	65
2001MRMH COM	61-334-TAB	66
2001-O-TTPL	342-5-02L	67
2002DIE	230-50-11	68
2002LDIN	238-164-TAB	69
2002M	61-131-2	39
2002MMH	61-341-TAB	70
2002MR	61-132-2	41
2002MRMH	61-340-TAB	71
2002NMRMH	61-634-TAB	72

INDEX PAGE II

CLICK ON PART NUMBER TO VIEW

CDI PART NUMBER	DRAWINGS	PAGE
2002NMRPH	61-734-38	73
2003CF-II	1300-82-8	74
2003-F-PET-R	1100-0-16	75
2003MF	96-132-1	51
2003MFMH	96-237-TAB	76
2003MFRMH-CDI	96-233-TAB	77
2003MFRMH-QR	96-233-TAB	77
2003NMRMH	96-635-TAB	78
2003NMRPH	96-735-TAB	79
200-PF	65-120	80
203KMRMH	96-535-TAB	81
24003M	96-132-1	51
2400-PI	65-120	80
25003MMH	96-243-TAB	82
25003MRMH	96-241-TAB	83
2501MR	61-132-2	41
2502CI	231-90	84
2502LDIN	238-164-TAB	69
2502M	61-131-2	39
2502MMH	61-342-TAB	85
2502MR	61-132-2	41
2502MRMH	61-336-TAB	86
2502MRMH-QR	61-336-TAB	86
2503CF	81-90-1	87
2503CF-II	1300-82-TAB	88
2503-F-TTPL	342-11-02L	89
2503LDFE	84-171-TAB	23
2503LDFE	84-371-TAB	24
2503LDFN	88-161-TAB	25,26
2503LDFN	88-161-6	90
2503LDFN	88-162-TAB	28
2503LDFN	88-361-TAB	29
2503LDFNR	268-160-TAB	91
2503LDFNW	88-163-TAB	92
2503LDFR	268-150-TAB	93
2503LFR	264-170-TAB	94
2503MF	96-132-1	51
2503MFMH COMM	96-239-TAB	95
2503MFRMH	96-232-TAB	96
2503MFRMH	96-244-TAB	97
2503MFRMH	96-332-TAB	98
2504LDFN	88-53-1	99
250LDFNI	264-72-TAB	61
250LDFNI	264-172-TAB	30
252LDFN	238-164-TAB	69

CDI PART NUMBER	DRAWINGS	PAGE
27005NMPH	136-231-3	100
30005LDF	288-51-TAB	101
30006LDFE	288-71-TAB	102
30006LDFN	288-60-TAB	103
3002-I-PET-M	1100-0-2	104
3002-I-PET-R	1100-0-14	105
3002KMRMH	61-536-TAB	106
3002LDIN	238-164-TAB	69
3003NMRMH	96-633-TAB	107
3003NMRPH	96-733-TAB	108
3003NMRPH	967-734-TAB	109
301LDI	238-150-TAB	110
301LDIN	238-160-TAB	111
303KMRMH	96-533-TAB	112
3504LDF	98-150-TAB	113
3504LDFE	94-170-TAB	114
3504LDFN	98-160-TAB	115
3504LDFNW	98-161-TAB	116
3603NMRMH	96-632-TAB	117
3603NMRPH	96-732-TAB	118
361SM	275-67-TAB	31
361SM	275-67	119
351SP	275-68-TAB	120
361SP	275-68	16
363KMRMH	96-532-TAB	121
4002-I-TTPL	342-7-02L	122
4004CF-II	1300-82-9	123
4004MFRMH	216-236-TAB	124
48004MR	216-132-1	125
48004MRMH	216-432-3	126
50ST-I-CDI	30-1317-5	127
5004MFR	216-132-1	125
501CI-II	1300-52-TAB	128
501-I-PET-M	1100-0-10	129
501-I-PET-R	1100-0-18	130
501-I-TTPL	342-6-02L	131
501KMMH	61-535-TAB	132
501MMH	61-339-TAB	133
501MRMH COMM	61-332-TAB	134
501MRMH-QR	61-332-TAB	134
501NMRMH	61-632-TAB	135
502CF	41-90-1	136
502CF-II	1300-42-TAB	137
502LDFE	48-270-TAB	138
502LDFE	44-370-TAB	139

INDEX PAGE III

CLICK ON PART NUMBER TO VIEW

CDI PART NUMBER	DRAWINGS	PAGE
502LDFN	48-260-TAB	140
503LDF	48-261-TAB	141
503LDFE	44-171-TAB	142
503LDFE	48-271-TAB	143
60004MR	216-132-1	125
6002-I-PET-R	1100-0-15	144
6002LDIE	48-270-TAB	138
6002LDIE	44-370-TAB	139
6002LDIN	48-260-TAB	140
6002LDIN	48-260-4	145
6002LDINR	348-60-TAB	146
6002MTR	61-134-1	147
6003LDI	48-261-TAB	141
6003LDIE	44-171-TAB	142
6003LDIE	48-271-TAB	143
6004CF-II	1300-92-TAB	148
6004-F-PET-R	1100-0-13	149
6004LDFE	94-172-TAB	150
6004LDFN	98-162-TAB	151
6004MFMH	216-231-TAB	152
6004MFR	216-132-1	125
6004MFRMH	216-232-TAB	153
6005LDFN	98-63-1	154
600LDIEBI	348-62-TAB	155
600LDINI	348-161-TAB	156
602NMRMH	46-630-TAB	20
602NMRPH	46-731-TAB	21
602NMRPHS	46-730-TAB	22
7502M	46-231-1	157
7502MMH COMM	46-242-TAB	158
7502MR	46-232-2	159
7502MRMH-CDI	46-234-TAB	160
7502MRMH-QR	46-234-TAB	160
7503MRMH	46-234-3	161
7504TM	360-29	162
751LDIN	238-161-TAB	163
752LDIN	238-163-TAB	164
752MF	46-231-1	157
752MFMH	46-238-TAB	165
752MFR	46-232-2	159
752MFRMH	46-334-TAB	166
75LDINI	374-61-TAB	167
75MFI	46-531-TAB	168
8004NMRMH	216-632-TAB	169
8004NMRPH	216-734-TAB	170

CDI PART NUMBER	DRAWINGS	PAGE
8004NMRPHS	216-732-TAB	171
800NM	216-132-1	125
804KMRMH	216-532-TAB	172
80MKP	216-132-1	125
BT2003MFR	96-132-1B	173
QC1R200	S/61-334-1	174
QC1RM200	S/61-533-1	175
QC2FR75	S/46-334-2	176
QC2N50	S/46-630-5	177
QC2R100	S/46-244-1	178
QC2R1000	S/46-235-1	179
QC2RM1000	S/46-530-1	180
QC2RN50	S/46-630-1	181
QC3R250	S/96-244-1	182
QC3RM30	S/96-533-1	183
QC4R400	S/216-236-1	184
QC4R600	S/216-232-1	185
QC5R1000	S/216-433-1	186
	61-533-TAB	187
	61-633-TAB	188
	268-34-TAB	189
	374-161-TAB	190
6004-F-PET-M	1100-0-12	191
	1300-42-9	192
1001T	25-49-TAB	193
	25-69-TAB	194
4MM HEX BIT	277-200	195
500NCM	275-339-TAB	196
3/16 HEX BIT	277-100	197
3/16 HEX BIT	277-110	198
3/16 HEX BIT	277-111	199
3/16 HEX BIT	277-120	200
3/16 HEX BIT	277-132	201
4MM HEX BIT	277-300	202
4MM HEX BIT	277-400	203
3/16 HEX BIT	277-415	204
3/16 HEX BIT	277-420	205
3/16 HEX BIT	277-700	206
3/16 HEX BIT	277-800	207
	344-0-TAB	208
	344-0-TAB	209
	75-75	210
1002MF	46-131-1	211
1002MF	46-131-2	212
1003MFR	46-132-1	213

INDEX PAGE IV

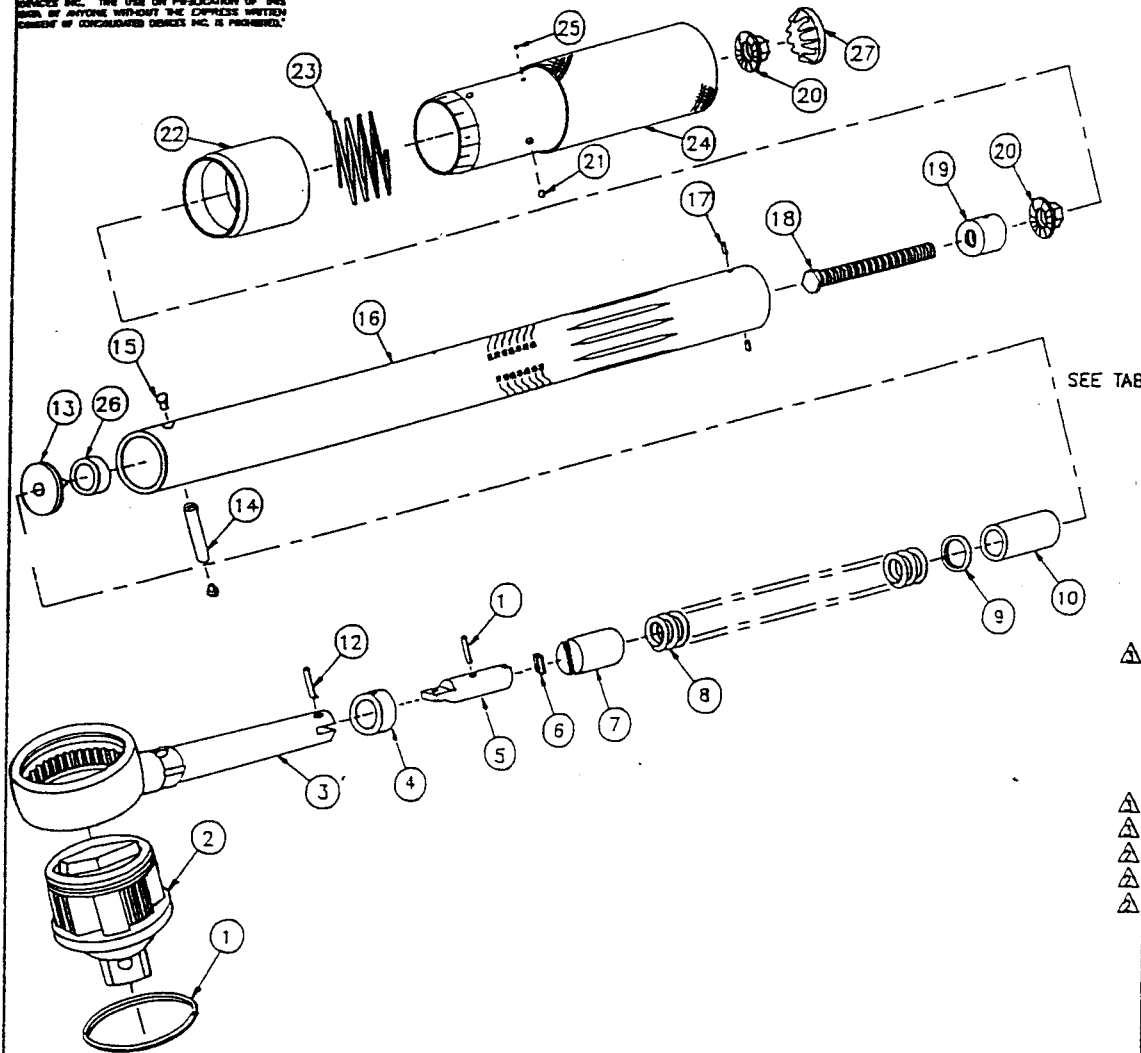
CLICK ON PART NUMBER TO VIEW

CDI PART NUMBER	DRAWINGS	PAGE
900CMKG	46-133-1	214
	46-332-2	215
	61-133-1	216
	61-332-2	217
	61-342-2	218
	96-132-4	219
	96-133-TAB	220
	96-333-2	221
	96-342-2	222
20005MF	136-131-1	223
	275-73	224
	216-231-1	225
	216-332-2	226
	344-48	227
	344-48	228
DPT1200PC	395-47-1	229
DPT1200DIGITAL	395-47-2	230
DPT1200WIRING	395-66-1	231
10002MRPH	46-843-TAB	232
2003MFRPH	96-833-TAB	233
1501MRPH	61-833-TAB	234
2502MRPH	61-836-TAB	235
1002MFRPH	46-844-TAB	236
1503MFRPH	96-835-TAB	237
2503MFRPH	94-832-TAB	238
6004MFRPH	216-832-TAB	239
20005MFPH	136-231-2	240
10005MFRPH	216-1833-TAB	241
15005NMRMH	216-633-TAB	242
10AT-I	30-1317-3	243
10ST-I	30-1317-2	244
10T-I	30-1317-1	245
10T-2P	30-1317-10	246
10T-2R	50-5-2	247
100ST-I	30-1350	248
100T-I	30-1355	249
100T-3R	30-1357-1	250
10T-3P	30-1457-1	251
200T-I	30-1257-3	252
200T-3R	30-1357-2	253

CDI PART NUMBER	DRAWINGS	PAGE
200T-3P	30-1457-2	254
300T-I	100-1316-2	255
300T-4P	100-1316-1	256
300T-4R	100-1316-3	257
5T-I	50-105-4	258
50T-I	30-1317-4	259
50ST-I	30-1317-5	260
50T-2P	30-1317-6	261
50T-2R	30-1317-8	262
5T-IR	50-5-1	263
600T-4P	85-140-1	264
600T-4R	85-141	265
600T-I	85-143-1	266
		267
		268
		269
		270
		271
		272
		273
		274
		275
		276
		277
		278
		279
		280
		281
		282
		283
		284
		285
		286
		287
		288
		289
		290
		291
		292
		293

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BY	LTR	DESCRIPTION	DATE	APPROVED
ΔΔ	1	REDRAWN FOR CLARITY, NO CHANGES	12-6-97	Jay



27	10-103-3	BUTTON PLUG	1
26	95-28-3	SPACER	1
25	10-106-1	BALL (3/32)	1
24	47-248-6	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	Δ	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-2	ADJUSTING SCREW	1
17	47-240	PIN	2
16	96-204-5	TUBE (ROLLSTAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
Δ 11	10-102-24	PIN, FULCRUM	1
10	95-28-2	SPACER	1
9	10-104-1	WASHER, FLAT	A/R
8	46-255	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
Δ 5	61-61	SECONDARY ARM	1
Δ 4	61-60	FULCRUM	1
Δ 3	45-93-1	RATCHET BODY	1
Δ 2	45-109	GUTS, RATCHET	1
Δ 1	95-44	RETAINER RING, RATCHET	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 1/32 .001 .01 .1/2
 .0001 .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 100 FT.LB.
 46 SERIES 3/8 & 1/2 DRIVE

MATERIAL
 FINISH

DRAWN	ΔΔ	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	9-27-91	46-232-TAB

- Δ FOR ASSEMBLY ITEMS 4, 5 & 11 SEE P/N 61-33.
- Δ ITEMS 1, 2 & 3 MAY BE FURNISHED AS ASSEMBLY P/N 45-97-1.
- 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

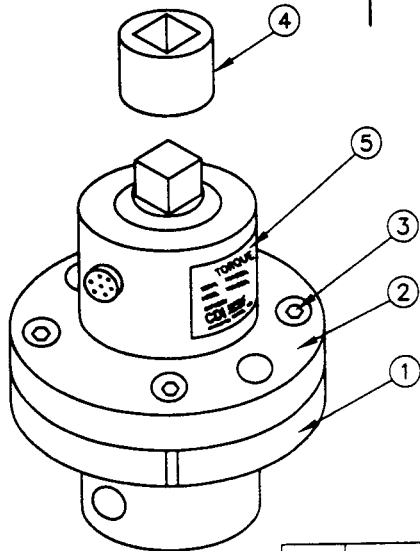
NOTES:

NOTE: UNCONTROLLED COPY

-2	47-250-3	CAT	9U5020
-1	47-246-12	CDI	1002MFRMH
TAB NO.	Δ 22	CUSTOMER	MODEL NO.

SECONDARY ARM 1002MFRMH 1003MFRMH

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BY	LTR	DESCRIPTION	DATE	APPROVED

7			
6			
△ 5	342-24-68	LABEL, TRANSDUCER	1
4	342-41-2	SOCKET ADAPTER	1
3	10-168-19	SOCKET HEAD CAP SCREW 1/4-20, 1/2" LONG	4
2	342-9-0	TRANSDUCER 1000 IN.LB.	1
1	2000-225-5	SMALL TRANSDUCER ADAPTER	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
± 1/32	.XX ± .01	± 1/2°
	.XXX ± .005	

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

TORQUE TRANSDUCER KIT
 (USED ON LOADERS)

10002-I-TTPL

1000 IN.LB.

CDI

DRAWN A.M.V.

SCALE NONE

DRAWING NO.

APPROVED *Ray*

DATE 3-2-98

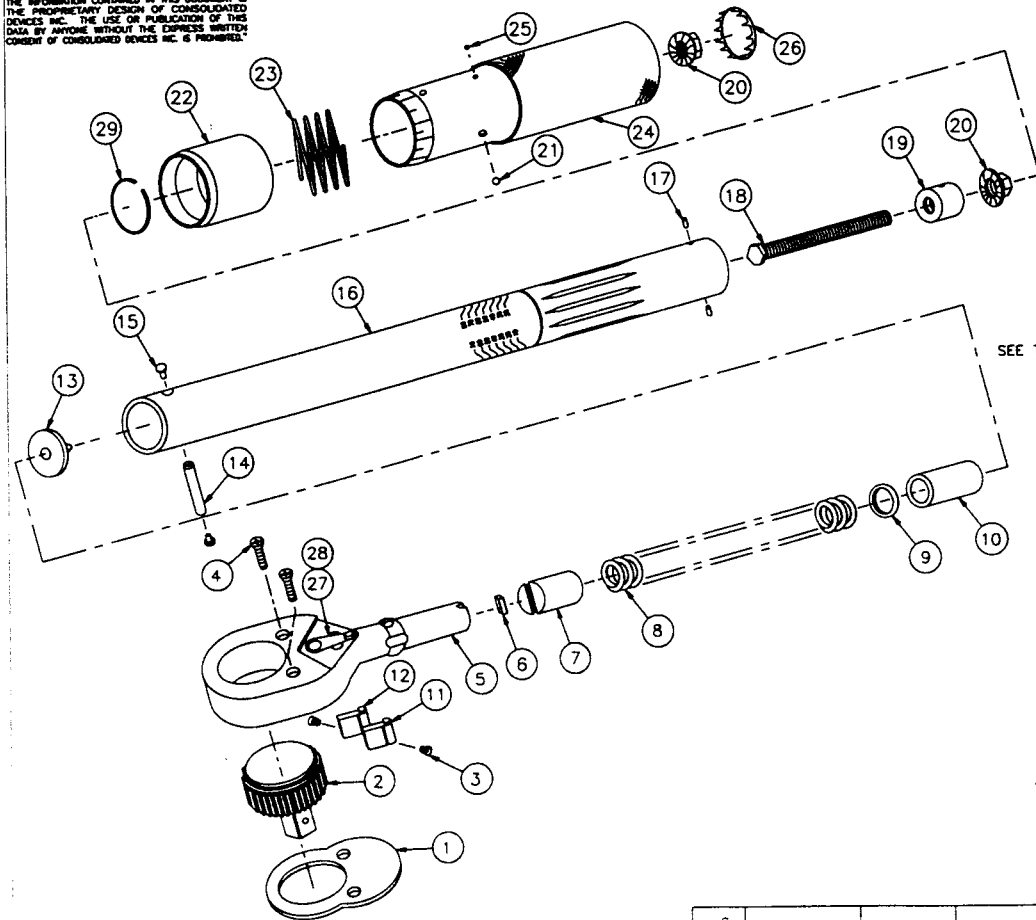
342-8-02L

NOTE: UNCONTROLLED COPY

- △ LABEL MADE IN CDI.
 1. CLEAN SURFACE ITEM 2 WITH FREON
 BEFORE APPLYING LABEL (ITEM 5)

NOTES:

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	ADD ITEM 29 & REDRAWN	12-5-96	<i>Jay</i>

29	47-238-1	SPRING RING	1
28		REVERSING CAM	1
27		REVERSING LEVER	1
26	10-103-3	BUTTON PLUG	1
25	10-106-1	BALL (3/32)	1
24	47-448-2	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-2	ADJUSTING SCREW	1
17	47-240	PIN	2
16	96-206-6	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12		DOG, RIGHT	1
11		DOG, LEFT	1
10	95-28-3	SPACER	1
9	10-104-1	WASHER, FLAT	A/R
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	46-500-12	RATCHET BODY	1
4		SCREW	2
3		SPRING	2
2		RATCHET WHEEL	1
1		PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/32 .001 .1/2°		CONSOLIDATED DEVICES, INC. City of Industry, California EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 3/8 DR. RATCHET 1000 CMKG	
MATERIAL		DRAWN <i>Jay</i>	SCALE NONE
FINISH		APPROVED <i>Jay</i>	DATE 04-06-95
		DRAWING NO. 46-530-TAB	

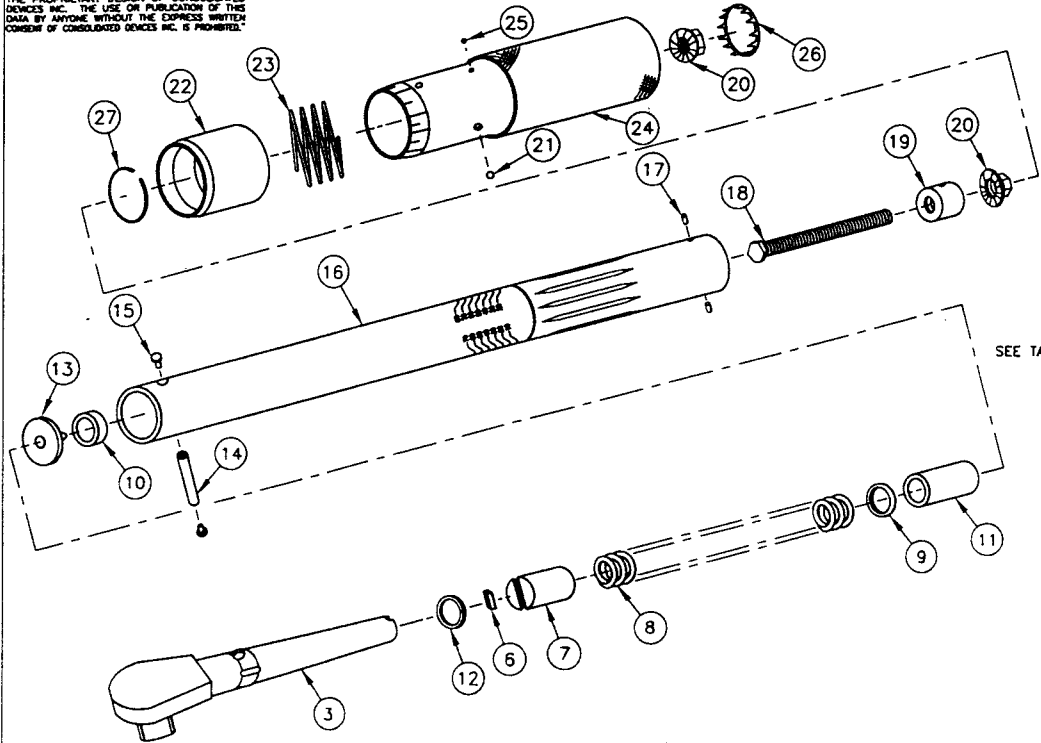
-6			
-5			
-4			
-3			
-2	47-446-10	CDI	10002KMRMH
-1	47-280-10	OLY	1000QLM
TAB NO.	▲ ITEM NO. 22	CUSTOMER	MODEL NO.

▲ PURCHASED AS ASSY. 46-500-12.
 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
 NOTES:

NOTE: UNCONTROLLED COPY

10002KMRMH

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	D	DELETE NOTE 2 AND ITEMS 4 & 5, ITEM 8 WAS 45-255, ITEM 9 WAS REQ'D. A/R, ITEM 10 WAS 95-28-3 (REQ'D. 2), ITEM 11 WAS 10-102-24, ITEM 12 WAS 45-250, ITEM 18 WAS 47-342-2, ADD ITEM 27	9-22-97	Jay

29			
28			
27	47-238-1	SPRING RING	1
26	10-103-3	BUTTON PLUG	1
25	10-106-1	BALL (3/32)	1
24	47-248-7	HANDLE ASSEMBLY (ROLL STAMPED)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	96-204-8	TUBE (ROLL STAMPED)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-241-1	O-RING	1
11	95-28-1	SPACER (1.38 LONG)	1
10	95-28-4	SPACER (.35 LONG)	1
9	10-104-1	WASHER, FLAT	4
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5			
4			
3	45-240	ARM & DRIVE ASSEMBLY	1
2			
1			
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
1/32 .01 .1/2°
.0005 .005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. PLAIN
1000 IN.LB.

MATERIAL

FINISH

DRAWN	SEP	SCALE	NONE	DRAWING NO.	46-239-TAB
APPROVED	Jay	DATE	07-29-93		

-4			
-3			
-2	SEE SEPARATE DRAWING		
-1	47-246-3	CDI	10002MMH
TAB NO.	ITEM NO.	CUSTOMER	MODEL NO.
△	22		

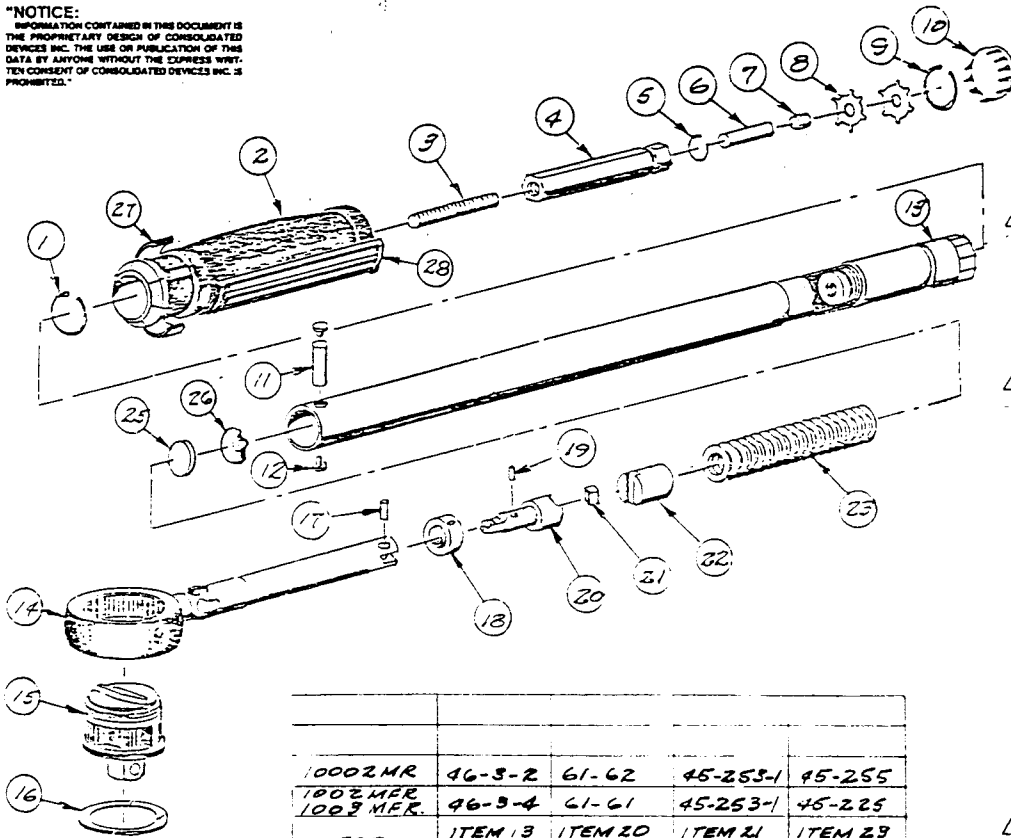
1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

NOTE: UNCONTROLLED COPY

10002 MMH

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 TEN CONSENT OF CONSOLIDATED DEVICES INC. IS
 PROHIBITED.



1000ZMR	46-3-2	61-62	45-253-1	45-255
100ZMR	46-3-4	61-61	45-253-1	45-225
1003MER.				
FOR	ITEM 13	ITEM 20	ITEM 21	ITEM 29
	PART NO.	PART NO.	PART NO.	PART NO.

- ⚠ ITEM 15, FOR 1/2" DR., USE 95-54.
- ⚠ ITEM 2 FOR RED HANDLE, USE 46-1-2.
- ⚠ SEE 45 SERIES PARTS LIST TO DETERMINE A PART NO. FOR A PARTICULAR HANDLE LABEL (ITEM 27).
- ⚠ SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.
- ⚠ HANDLE GRIP TO BE FURNISHED IF REQUESTED.
- ⚠ ITEMS 3 THRU 7 MAY BE FURNISHED AS COMPLETE ASSY. HEX ASSY. (45-94-1) WITH ITEM 6 (PART NO. 45-6-2)

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
B.M.F.	A	NOTE ⚠ 45-94-1 WAS 45-94-2	10-30-96	Jay

2	28	45-277	HANDLE GRIP	1
	27	⚠	LABEL, HANDLE	1
	26	30-8	WASHER, THRUST	1
	25	10-104-1	WASHER, FLAT	R/R
	23	SEE BLOCK	SPRING, TORQUE	1
	22	45-251	CAM	1
3	21	SEE BLOCK	PAWL	1
	20	SEE BLOCK	SECONDARY ARM	1
	19	10-102-24	PIN, FULCRUM	1
	18	61-60	FULCRUM	1
	17	45-250	PIN, ROLLER	1
	16	95-44	RETAINER RING, CATCHET	1
10	15	45-109	GUTS, RATCHET	1
	14	45-93-1	RATCHET BODY	1
	13	SEE BLOCK	TUBE ASSY. (ROLL STAMP)	1
	12	45-92	RIVET, PIVOT PIN	2
	11	45-91	PIN, PIVOT	1
	10	10-103-3	BUTTON PLUG, HANDLE	1
	9	45-137	CLIP, HEX RETAINER	1
	8	45-75	WASHER, HEX. LOCK	2
	7	10-101-19	SOC. SET SCREW, HEX BAR	1
	6	⚠	PIN, LOCK HEX. BAR	1
	5	45-2	CLIP, SPRING HEX. BAR	1
	4	45-43	HEX. BAR, INTERNAL ADJ.	1
	3	10-101-1	SOC. SET SCREW, HEX BAR	1
5	2	46-1-1	HANDLE, PLASTIC	1
	1	45-74	CLIP, HANDLE	1

CODE IDENT	PART NO.	DESCRIPTION	RECD
PARTS LIST			
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES Ⓜ .12 XX .01 ±.01 XXX .005</small>		CONSOLIDATED DEVICES, INC. City of Industry, California	
EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH, 3/8 DR. RATCHET			
SER. 46			
DRAWN J.S.		SCALE NONE	DRAWING NO.
APPROVED [Signature]		DATE 11-6-87	46-132-2

Ⓜ BISHOP GRAPHICS/ACCUPRESS
 RECORDER NO. 42041

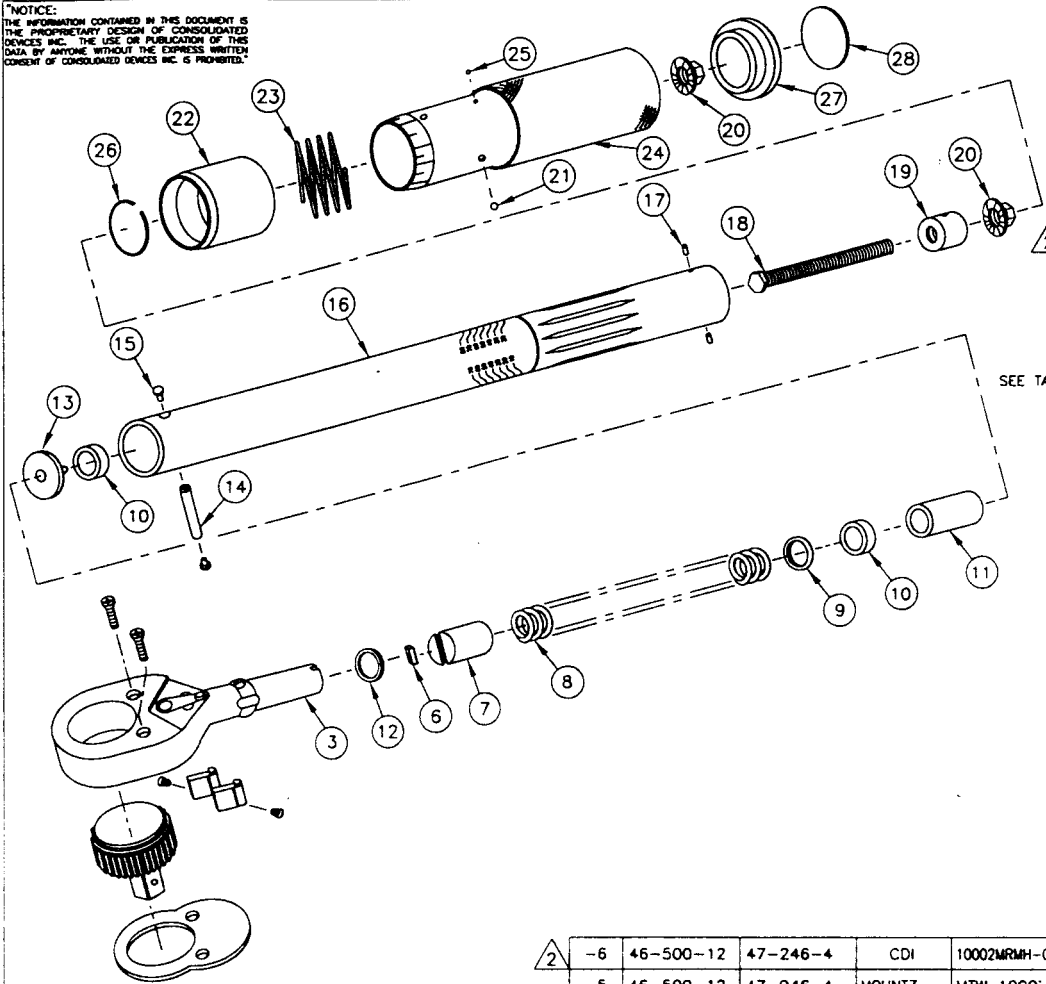
NOTE: UNCONTROLLED COPY

WITH SECONDARY ARM

100ZMR, 1000Z MR

ROLL STAMP TIME

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	E	ITEM 3 NWS 46-500-12, ITEM 8 NWS 95-246-1, ADD ITEM 11 & TAB NO. -6	2-8-99	Jay

29			
28	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
27	96-103-3	END PLUG SNAP-ON, CDI	1
26	47-238-1	SPRING RING	1
25	10-106-1	BALL (3/32)	1
24	47-248-7	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	96-204-8	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-241-1	O-RING	1
11	95-28-2	SPACER (1.00 LONG)	1
10	95-28-4	SPACER (.35 LONG)	2
9	10-104-1	WASHER, FLAT	4
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5			
4			
3	△	RATCHET BODY	1
2			
1			
ITEM	PART NO.	DESCRIPTION	REQ'D

△	-6	46-500-12	47-246-4	CDI	10002MRMH-OR	
	-5	46-500-12	47-946-4	MOUNTZ	MTW 1000i	
	-4	46-500-12	47-258-4	V. BELKNAP	VB 10002MRMH	
	-3	46-500-12	47-273-4	WILLIAMS	BTW-2RCA	
	-2	46-500-12	47-259-4	WRIGHT TOOL	3479	
△	-1	46-500-120	47-246-4	CDI	10002MRMH	
TAB NO.	△	ITEM NO. 5	△	ITEM NO. 22	CUSTOMER	MODEL NO.

△ USE ITEM 28 FOR CDI ONLY.
1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
NOTES:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
1/32 .001 .01
.0005 .005

MATERIAL

FINISH

CONSOIDATED DEVICES, INC.
City of Industry, California

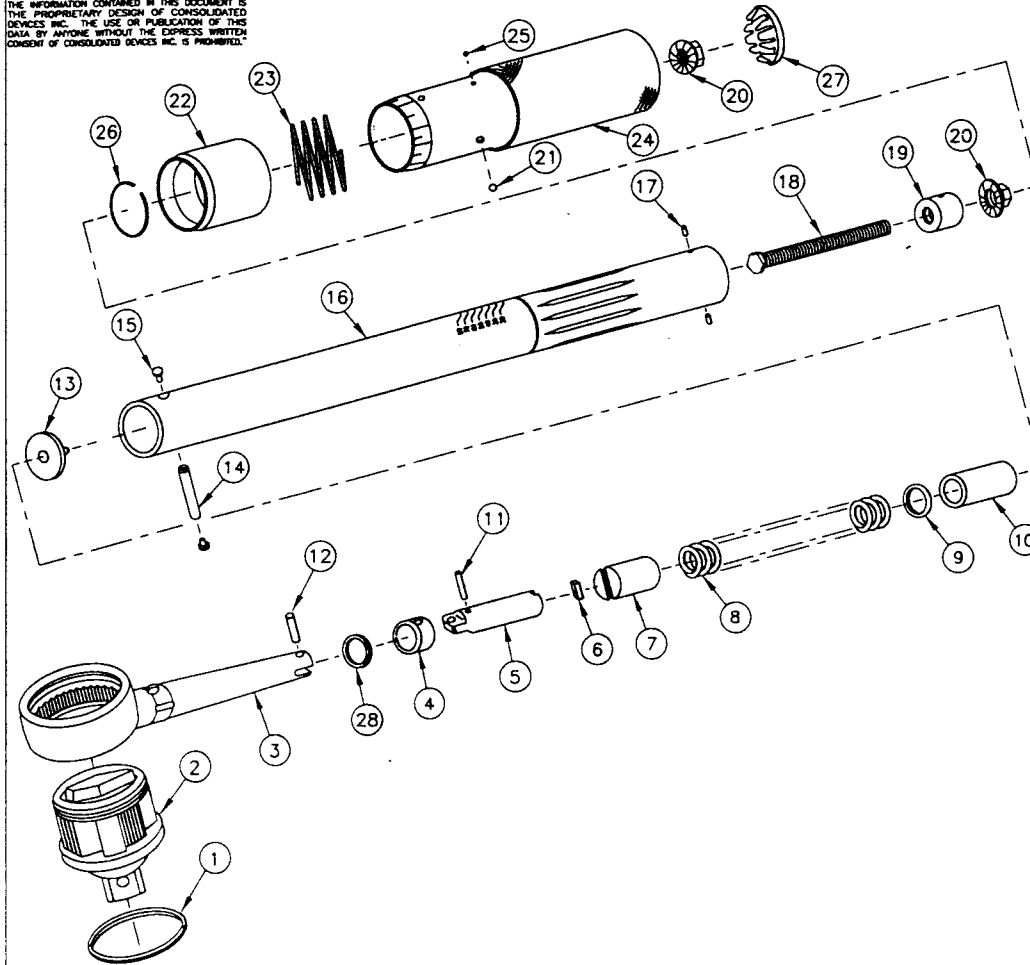
EXPLODED ILLUSTRATION
MICRO ADJ. WRENCH 3/8 DR. RATCHET
1000 IN.LB.

DRAWN	SCALE	NONE	DRWG. NO.
APPROVED	DATE	09-19-95	46-243-TAB

NOTE: UNCONTROLLED COPY

10002 MRMH
10002 MRMH-QR

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- △3 FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE 61-32.
 - △2 ITEMS 1, 2 & 3 MAY BE FURNISHED AS ASSEMBLY 45-91-1.
 - 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
- NOTES:

NOTE: UNCONTROLLED COPY

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	ITEM 24 WAS 47-252-7, ADD ITEMS 26 & 28, REDRAWN	8-22-97	<i>Jay</i>

29			
28	10-241-1	O-RING	1
27	10-103-3	BUTTON PLUG	1
26	47-238-1	SPRING RING	1
25	10-106-1	BALL (3/32)	1
24	47-252-10	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	47-246-4	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-2	ADJUSTING SCREW (2.75 LONG)	1
17	47-240	PIN	2
16	96-205-8	TUBE (ROLL STAMPED)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
△11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER (1.38 LONG)	1
9	10-104-1	WASHER, FLAT	A/R
8	45-255	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
△5	61-62	SECONDARY ARM	1
△4	61-60	FULCRUM	1
△3	45-93-1	RATCHET BODY	1
△2	45-109	GUTS, RATCHET	1
△1	95-44	RETAINING RING, RATCHET	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .01 .01 ±1/2°
XXXX .005

MATERIAL

FINISH

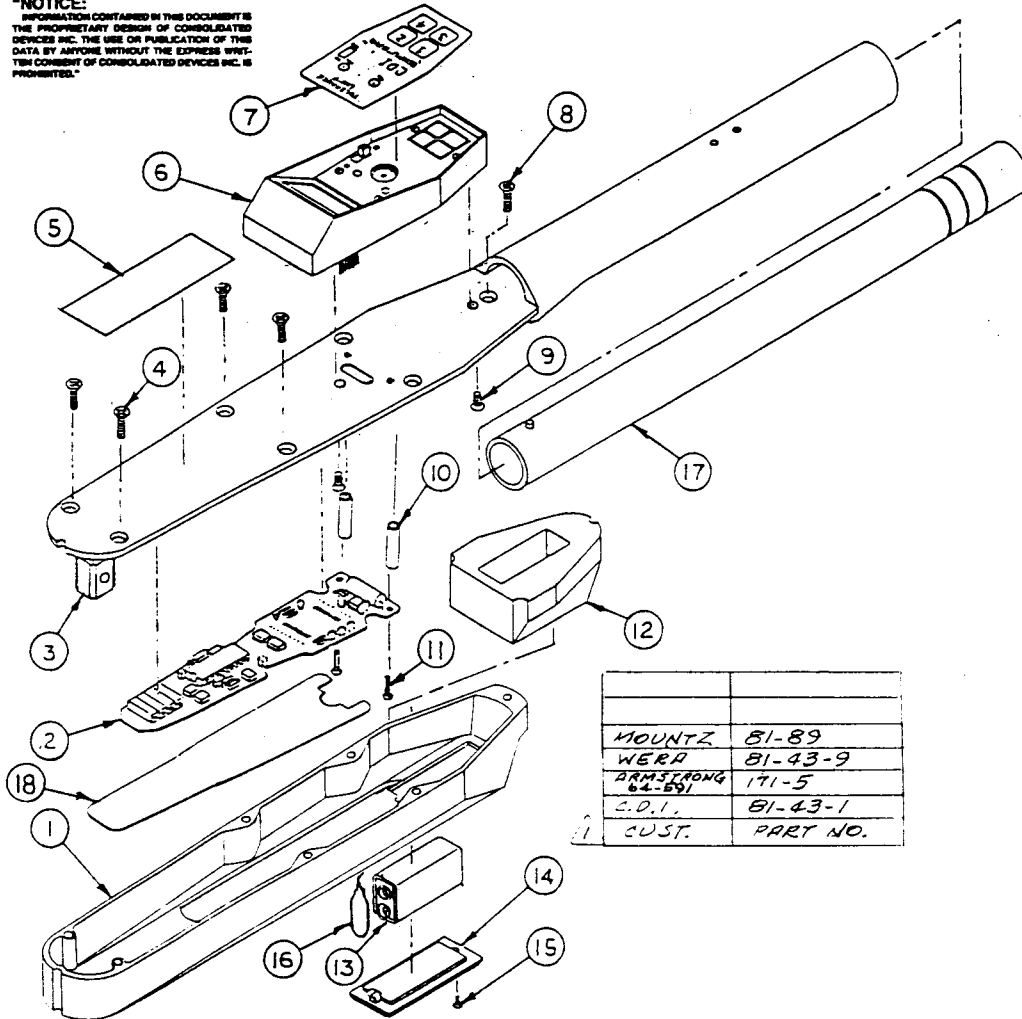
CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. RATCHET
1000 IN.LB. GSA

DRAWN	<i>slj</i>	SCALE	NONE	DRAWING NO.	46-235-2
APPROVED	<i>Jay</i>	DATE	04-27-94		

10002 MRMH GSA

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Z. FOR MAIN PC BOARD, LCD BOARD, & KEYBOARD WIRING ASSY. SEE B1-B5

NOTE:

MOUNTZ	81-89	
WEBA	81-43-9	
ARMSTRONG	171-5	
S.D.I.	81-43-1	
1	CUST.	PART NO.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ADD ITEM 7 LABEL COLUMN		

18	171-50	INSULATION	1
17	170-9	HANDLE EXTENSION ASSY.	1
16	81-37	BATTERY PLUG	1
15	10-227-1	FLAT HD. TAPPING SCREW #4 X 3/8	1
14	81-38	BATTERY COVER	1
13	81-6	BATTERY	1
12	171-3	BATTERY HOUSING	1
11	10-126-13	PAN HD. MACH. SCREW 6-32 X 1 1/2	2
10	81-51-8	SPACER	2
9	10-228-2	SCREW, OVAL HD, UNDERCUT #8 X 5/8	2
8	10-111-3	SCREW, OVAL HD, TAPPING #10 X 5/8	1
7	▲	LABEL, NAMEPLATE	1
6	81-8-3	HOUSING & KEYBOARD ASSY.	1
5	81-54	INSTRUCTION LABEL	1
4	10-111-3	SCREW, OVAL HD, TAPPING #10 X 3/4	6
3	171-53	WIRING ASSY. ETW	1
2	81-49-4	PC BOARD COMPONENTS, MAIN	1
1	171-4	ALUM. CASE	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
------------	----------	-------------	------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 ± .01 ± 1/2°
 XXX ± .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

COMPUTORQ ETW

SER 171 RANGE 60-1000 FT. LB.

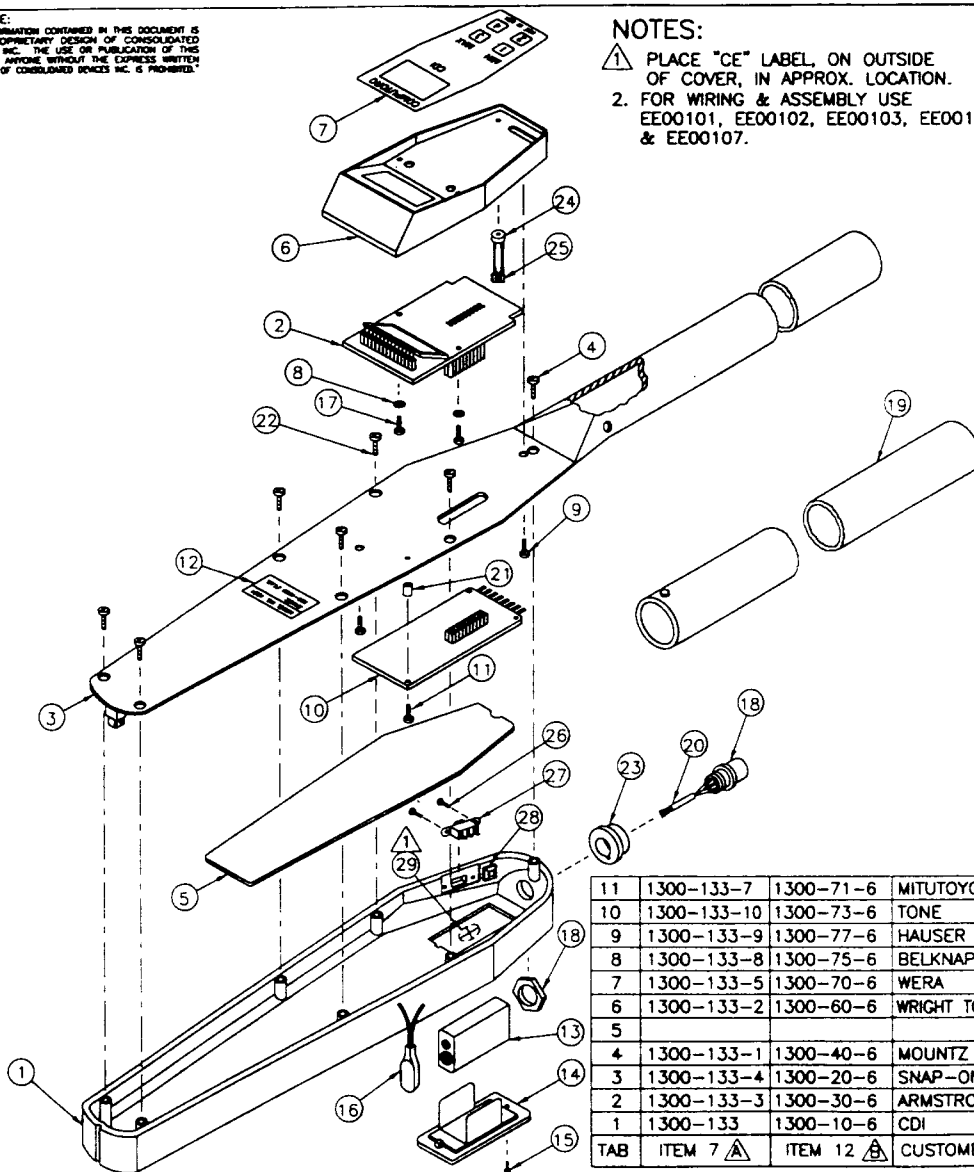
DRAWN Z.J.S.	SCALE —	DRAWING NO.
APPROVED [Signature]	DATE 10-15-87	171-90

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	K	ADD TAB 11	9-16-99	Jay

NOTES:

- PLACE "CE" LABEL, ON OUTSIDE OF COVER, IN APPROX. LOCATION.
- FOR WIRING & ASSEMBLY USE EE00101, EE00102, EE00103, EE00104 & EE00107.



11	1300-133-7	1300-71-6	MITUTOYO
10	1300-133-10	1300-73-6	STONE
9	1300-133-9	1300-77-6	HAUSER
8	1300-133-8	1300-75-6	BELKNAP
7	1300-133-5	1300-70-6	WERA
6	1300-133-2	1300-60-6	WRIGHT TOOL
5			
4	1300-133-1	1300-40-6	MOUNTZ
3	1300-133-4	1300-20-6	SNAP-ON
2	1300-133-3	1300-30-6	ARMSTRONG
1	1300-133	1300-10-6	CDI
TAB	ITEM 7	ITEM 12	CUSTOMER

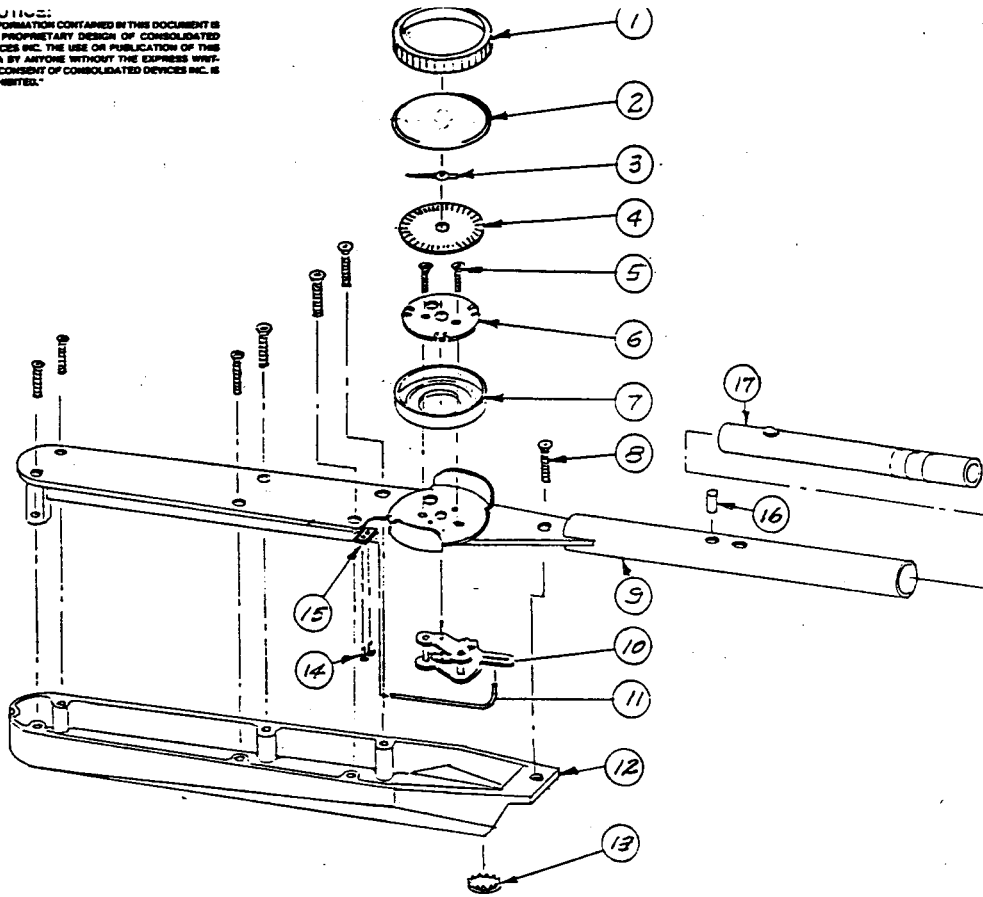
	29	950-99	CE LABEL	1
	28	44-9	MOUNTING DEVICE	1
	27	1100-20	SWITCH	1
	26	10-109-17	FLAT HEAD MACHINE SCREW	2
	25	344-16-1	PCB CONNECTOR	1
	24	81-28	BUZZER	1
	23	1300-51-33	ADAPTER	1
	22	10-109-32	SCREW, FLAT HEAD, 10-24 X 3/4	2
	21	1300-4-3	SPACER 3/16 LONG	1
	20	82-24-2	CABLE	1
	19	170-9	HANDLE EXTENSION ASSEMBLY	1
	18	1100-77	RECEPTACLE WITH NUT & WASHER	1
	17	10-126-18	PAN HEAD MACHINE SCREW 4-40 X 3/16	2
	16	81-37	BATTERY PLUG	1
	15	10-227-1	FLAT HEAD TAPPING SCREW	1
	14	1300-82-19	COVER & CLIP ASSEMBLY	1
	13	81-6	BATTERY 9V	1
	12		MODEL NO. LABEL	1
	11	10-126-7	PAN HEAD MACHINE SCREW 4-40 X 1/2	1
	10	1300-101	PC BOARD - ANALOG ASSEMBLY	1
	9	10-225-12	BUTTON HEAD SOCKET CAP SCREW 8-32 X 1/2	2
	8	10-205-3	WASHER, NYLON	2
	7		KEY PAD	1
	6	1300-1	HOUSING	1
	5	51-50	INSULATION	1
	4	10-221-1	SCREW, ROUND HEAD, 10-24 X 3/4	5
	3	1300-171-53	BEAM PLATE, WIRING ASSEMBLY (STRAIN GAGE)	1
	2	1300-111	PC BOARD - DIGITAL ASSEMBLY	1
	1	1300-172-19	CASE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES : 1/32 .XX : 01 : 1/2° : .002 : .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
		EXPLODED ILLUSTRATION COMPUTORQ 1000 FT.LB.	
MATERIAL			
FINISH			
DRAWN S.L.J./A.M.V.		SCALE NONE	DRAWING NO.
APPROVED Jay	DATE 03-10-95	1300-172-TAB	

NOTE: UNCONTROLLED COPY

10005CF - II

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BY	LTR	DESCRIPTION	DATE	APPROVED
JJS	A	ADD TAB 2 & A	12-9-91	JJS
ZJS	B	ITEM B WAS 10-111-3	9-11-92	JJS
B.M.F.	C	ITEM B WAS 10-222-4	3-20-98	JJS

17	170-9	HANDLE EXTENSION ASSY.	1
16	10-107-5	PIN, SPRING	1
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	170-8	CASE	1
11	30-11-2	PUSHROD	1
10	10-113	MOVEMENT	1
9	A	HANDLE CHANNEL, BEAM & GUARD ASSY.	1
8	10-221-1	SCREW, SELF TAPPING, PLATE	7
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4	A	SCALE	1
3	40-18-4	POINTER	1
2	48-91	CRISTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 XX ± .01 = 1/4°
 XXX ± .005

MATERIAL		CONOLIDATED DEVICES, INC. City of Industry, California	
FINISH		EXPLODED ILLUSTRATION DIAL WRENCH (PLAIN) 0-1000 FT. LB. - 0-1400 N.M.	
DRAWN	ZJS	SCALE	DRAWING NO.
APPROVED	JJS	DATE	7/14/88
			178-50-TAB

GSA

TAB NO	SCALE	RANGE	CUST.
2	48-108-42	178-200-1	0-1000 FT. LB. 0-1400 N.M. 10005 LDF
1	48-108-12	178-200-1	0-1000 FT. LB. 0-1400 N.M. C.R.I. 10005 LDF

NOTE:

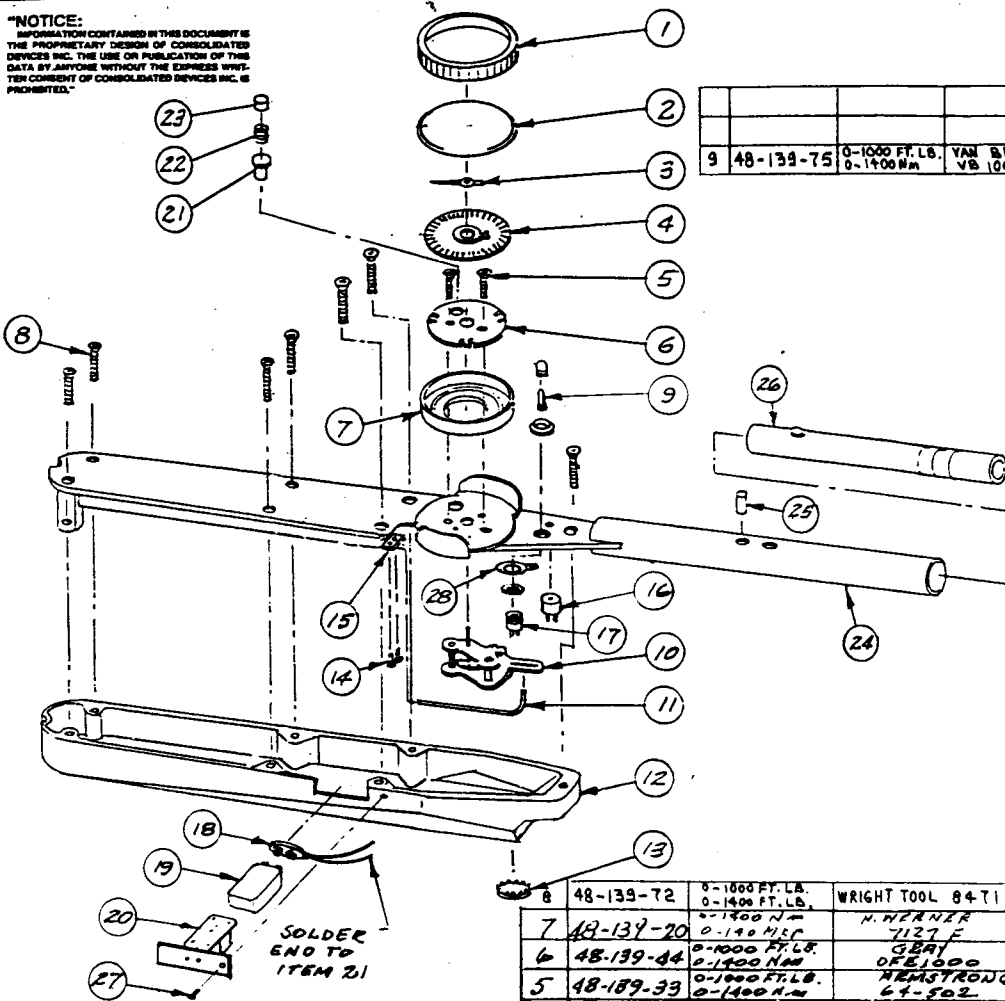
BISHOP GRAPHICS/ACCUPRESS
 REORDER NO. A2941

NOTE: UNCONTROLLED COPY

10005 LDF

(PLAIN)

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SOLDER
 END TO
 ITEM 21

1. SEE DWG. 94-10 WIRING DETAIL FOR PARTS NOT SHOWN. REF. MOUNTING DEVICE 44-9, CABLE TIE 44-8, RESI STOR 81-19-11

NOTE:

9	48-139-75	0-1000 FT. LB. 0-1400 Nm	VAN BELKNAP VB 1000S LDFE
---	-----------	-----------------------------	------------------------------

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V	G	48-139-75 WAS 178-200-63	5-31-96	Joy
B.M.F	H	ITEM 8 WAS 10-222-4	3-20-98	Joy

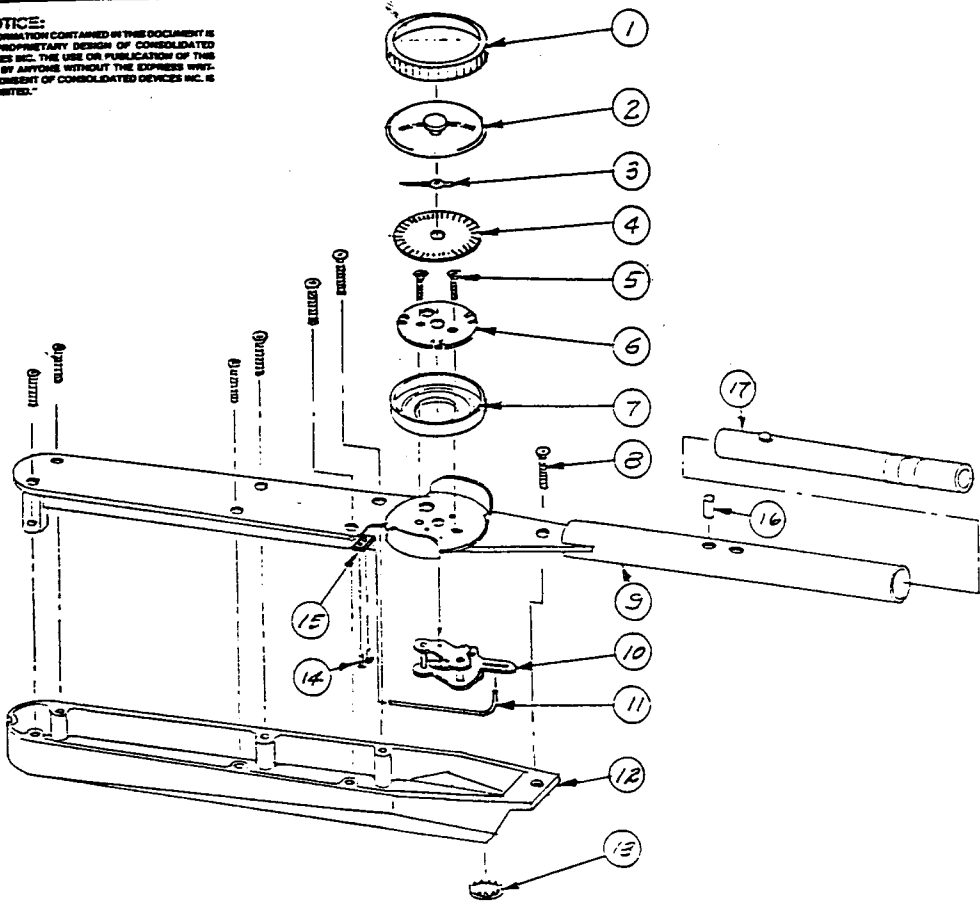
28	44-7	SOLDER TERMINAL	1
27	10-227-1	SCREW, SELF TAPPING #4 X 3/8 LG.	1
26	170-9	HANDLE EXTENSION ASSY.	1
25	10-127-5	PIN, SPRING	1
24	44-108-12	PLATE AND GUARD ASSY.	1
23	40-115	PLUNGER	1
22	10-105-2	SPRING	1
21	40-102	RETAINER, SPRING	1
20	174-19	COVER & CLIP ASSY.	1
19	81-6	BATTERY	1
18	81-37	BATTERY PLUG	1
17	44-5	LAMP HOLDER	1
16	81-28	BUZZER	1
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	174-8	CASE	1
11	174-11	PUSH ROD	1
10	10-113	MOVEMENT	1
9	44-6	LAMP	1
8	10-221-1	SCREW, SELF TAPPING, PLATE	7
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE ASSY.	1
3	48-18-4	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

8	48-139-72	0-1000 FT. LB. 0-1400 FT. LB. 0-1400 Nm	WRIGHT TOOL 84-T1
7	48-139-20	0-1400 M.F.P. 0-1400 Nm	H. WERNER 7127 F GRAY
6	48-139-84	0-1000 FT. LB. 0-1400 Nm	DFE 1000
5	48-189-39	0-1000 FT. LB. 0-1400 Nm	HEMSTRONG 64-502
4	48-139-60	0-1000 FT. LB. 0-1400 Nm	GARLSON 1005 LDFE
3	48-189-29	0-1000 FT. LB. 0-1400 Nm	CENTRAL 6047
2	48-139-39	0-1000 FT. LB. 0-1400 Nm	R-D TOOLS 2655
1	48-139-11	0-1000 FT. LB. 0-1400 Nm	C.R.I. 1000S LDFE
TAB NO.	▲ SCALE ASSY.	RANGE	SUST.

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = 1/32 .001 ± .01 ± 1/2° XXX = .005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION, 1" DR DIAL WRENCH, ELECTRIC BEEPER			
0-1000 FT. LB. 0-1400 Nm			
DRAWN 2JS		SCALE —	
APPROVED [Signature]		DATE 2-3-98	
			DRAWING NO. 174-70-TAB

1000S LDFE

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 PROHIBITED."



6	178-200-62	0-1000 FT. LB. 0-1400 Nm	BELKNAP YA 10005 LDFN
5	178-202-65	0-140 MKG 0-1000 FT. LB.	CDI 10005 KLDNF
4	178-200-53	0-1000 FT. LB. 0-1400 Nm	WRIGHT TOOL 84-70
3	178-202-6	140 KG M 200 FT LB	OLY-1400 DB4
2		0-1400 Nm 0-140 MEG	H. WERNER 711 F
1	178-200-10	0-1000 FT. LB. 0-1400 Nm	GRL 10005 LDFN
TORQ. NO.	▲ SCALE	RANGE	CUST.

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 9 WAS 178-14-1	2-6-87	[Signature]
ZJS	B	ITEM 8 WAS 10-111-3	4-4-92	[Signature]
SS	C	ADD TAB 3	10-10-94	[Signature]
SS	D	TAB 3 WAS 178-200-60	0-7-94	[Signature]
A.M.V	E	ADD TAB 4	9-22-91	[Signature]
A.M.V	F	ADD TAB 5	2-16-96	[Signature]
A.M.V	G	ADD TAB 6	7-29-96	[Signature]
B.M.F	H	ITEM 8 WAS 10-222-4	3-20-98	[Signature]

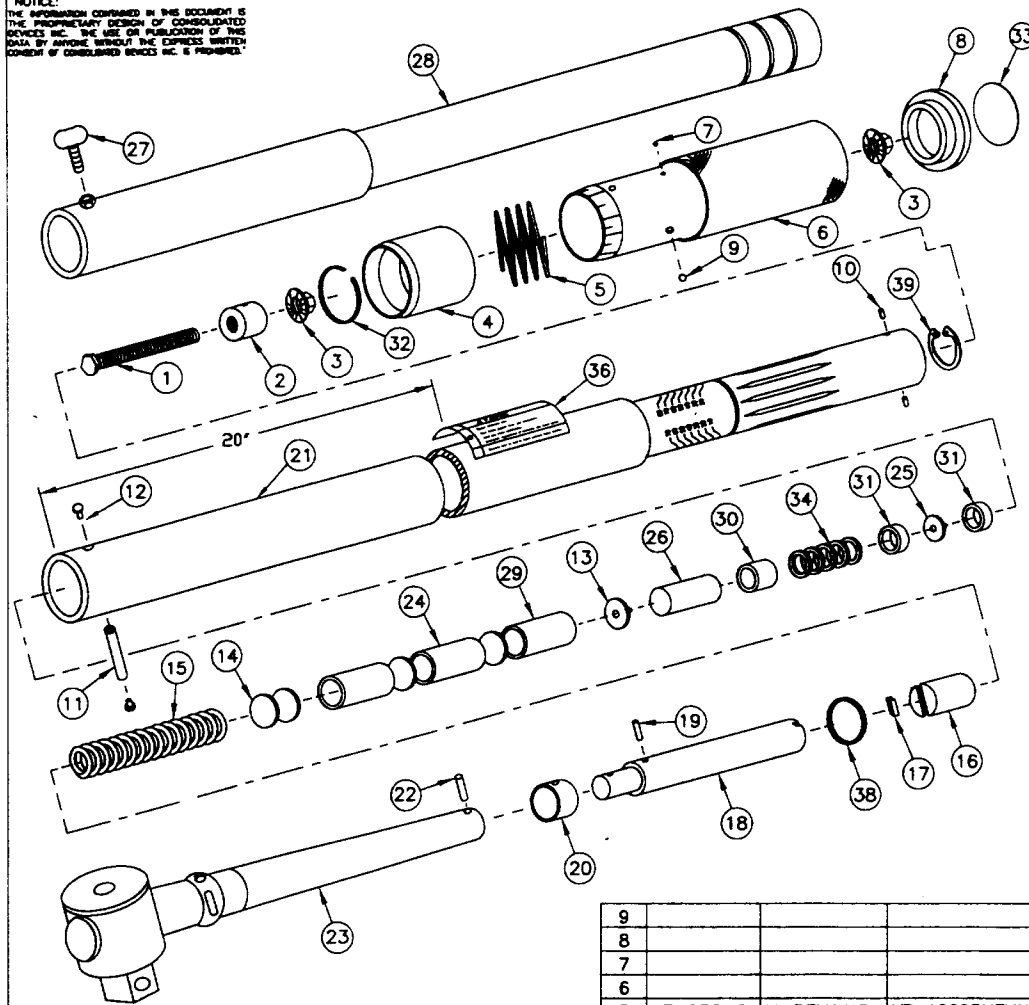
17	170-9	HANDLE EXTENSION ASSY.	1
16	10-107-5	PIN, SPRING	1
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	170-8	CASE	1
11	80-11-2	PUSH ROD	1
10	10-113	MOVEMENT	1
9	48-108-12	HANDLE CHANNEL BEAM & GUARD ASSY	1
8	10-221-1	SCREW, SELF TAPPING - PLATE	7
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE	1
3	48-18-4	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = 1/32 XX ±.01 = 1/4° XXX = .005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION DIAL WRENCH (MEMORY) 1" DR.			
0-1000 FT. LB. - 0-1400 Nm			
DRAWN ZJS		SCALE -	
APPROVED [Signature]		DATE 7-1-80	
		DRAWING NO. 178-60-TAB	

10005 LDFN COMMERCIAL (MEMORY)

② BISHOP GRAPHICS/ACCOMPRESS REORDER NO. 420411

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- ⚠ ITEM 37 TO BE PLACED ON THE COVER OF THE METAL BOX NEXT TO THE HANDLE.
 ⚠ ONE LABEL TO BE PLACED ON THE TOOL AND ONE ON THE INSIDE COVER OF THE METAL BOX.
 ⚠ USE ITEM 33 FOR CDI ONLY.
 ⚠ FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

9			
8			
7			
6			
5	47-258-21	V. BELKNAP	VB 10005MFMH
4	47-247-1	PROTO	6023
3	47-259-21	WRIGHT TOOL	8448
2	47-273-21	WILLIAMS	XTW-4PCFA
1	47-246-21	CDI	10005MFMH
TAB NO.	PART NO. 4	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	S	ITEM 28 WAS 216-186-0	1-10-00	Jay

39	10-238-2	RETAINING RING	1
38	10-241-3	O-RING	1
37	15-67	LABEL WARNING - BOX (NOT SHOWN)	1
36	15-66	LABEL WARNING - EXTENSION	2
35	10-117-8	METAL BOX ASSEMBLY (NOT SHOWN)	1
34	10-104-1	WASHER, FLAT	5
33	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
32	47-238-1	SPRING RING	1
31	95-28-4	SPACER (.35 LONG)	2
30	95-28-1	SPACER (1.38 LONG)	1
29	216-24	SPACER (1.60 LONG)	1
28	216-186-02	HANDLE EXTENSION ASSEMBLY	1
27	10-155	WING BOLT	1
26	216-41	SPACER (3.60 LONG)	1
25	30-8	WASHER, THRUST	1
24	215-20	SPACER ((3.09 LONG)	2
23	85-34	ARM & DRIVE ASSEMBLY	1
22	215-104	PIN, ROLLER	1
21	216-13-2	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-2	SECONDARY ARM	1
17	45-253-3	PAWL	1
16	215-32-1	CAM	1
15	215-86	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	4
13	85-10-2	WASHER, THRUST	1
12	85-38	RIVET, PIVOT PIN	2
11	85-37	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	96-103-3	END PLUG SNAP-ON, CDI	1
7	10-106-1	BALL (5/32)	1
6	47-248-10	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-249	SPRING, LOCK RING	1
4		LOCK RING	1
3	47-245-1	HEX. FLANGE NUT	2
2	47-241	INSERT TUBE	1
1	47-342-3	ADJUSTING SCREW (2.50 LONG)	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .001 .01 ±1/2°
JDC:005

CONSOLIDATED DEVICES, INC.
City of Industry, California

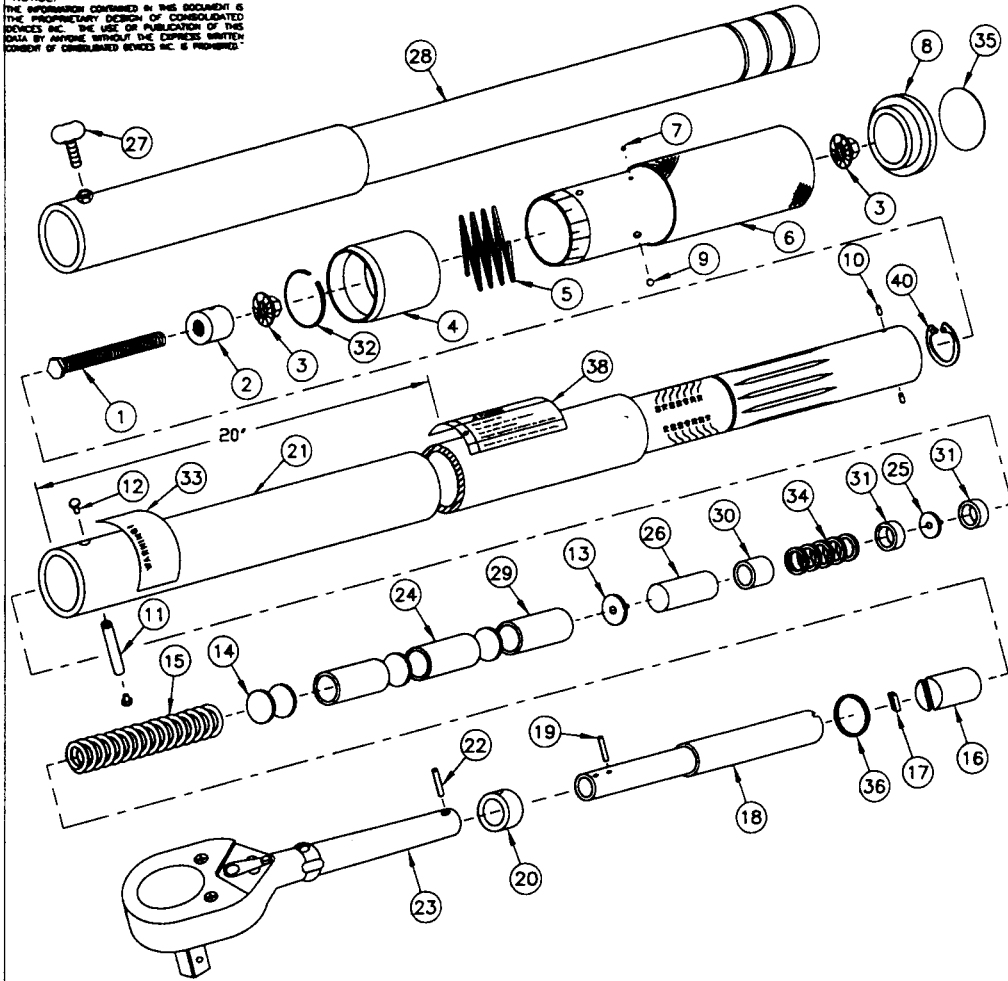
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1" DR. PLAIN
1000 FT.LB.

DRAWN <i>slj</i>	SCALE NONE	DRAWING NO.
APPROVED <i>Jay</i>	DATE 01-22-92	216-431-TAB

NOTE: UNCONTROLLED COPY

10005MFMH

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- ▲ ITEM 39 TO BE PLACED ON THE COVER OF THE METAL BOX NEXT TO THE HANDLE.
 ▲ ONE LABEL TO BE PLACED ON THE TOOL AND ONE ON THE INSIDE COVER OF THE METAL BOX.
 ▲ USE ITEM 35 FOR CDI ONLY.
 ▲ FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

5			
4	47-946-25	MOUNTZ	MTW 1000F
3	47-258-25	V. BELKNAP	VB 10005MFRMH
2	47-259-25	WRIGHT TOOL	8447
1	47-246-25	CDI	10005MFRMH-QR
TAB NO.	PART NO.	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	K	ITEM 28 WAS 216-186-0	1-10-00	Jay

40	10-238-2	RETAINING RING	1
39	15-67	LABEL WARNING - BOX (NOT SHOWN)	1
38	15-66	LABEL WARNING - EXTENSION	2
37	10-117-7	METAL BOX ASSEMBLY (NOT SHOWN)	1
36	10-241-3	O-RING	1
35	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
34	10-104-1	WASHER, FLAT	5
33	15-65	LABEL, WARNING	1
32	47-238-1	SPRING RING	1
31	95-28-4	SPACER (.35 LONG)	2
30	95-28-1	SPACER (1.38 LONG)	1
29	216-24	SPACER (1.60 LONG)	1
28	216-186-02	HANDLE EXTENSION ASSEMBLY	1
27	10-155	WING BOLT	1
26	216-41	SPACER (3.60 LONG)	1
25	30-8	WASHER, THRUST	1
24	215-20	SPACER ((3.09 LONG)	2
23	216-500-2	RATCHET BODY	1
22	215-104	PIN, ROLLER	1
21	216-13-2	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-2	SECONDARY ARM	1
17	45-253-3	PAWL	1
16	215-32-1	CAM	1
15	215-86	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	4
13	85-10-2	WASHER, THRUST	1
12	85-38	RIVET, PIVOT PIN	2
11	85-37	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	96-103-3	END PLUG SNAP-ON, CDI	1
7	10-106-1	BALL (5/32)	1
6	47-248-10	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-249	SPRING, LOCK RING	1
4	▲	LOCK RING	1
3	47-245-1	HEX, FLANGE NUT	2
2	47-241	INSERT TUBE	1
1	47-342-3	ADJUSTING SCREW (2.50 LONG)	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .01 .01 ±1/2°
 MMC .005

MATERIAL

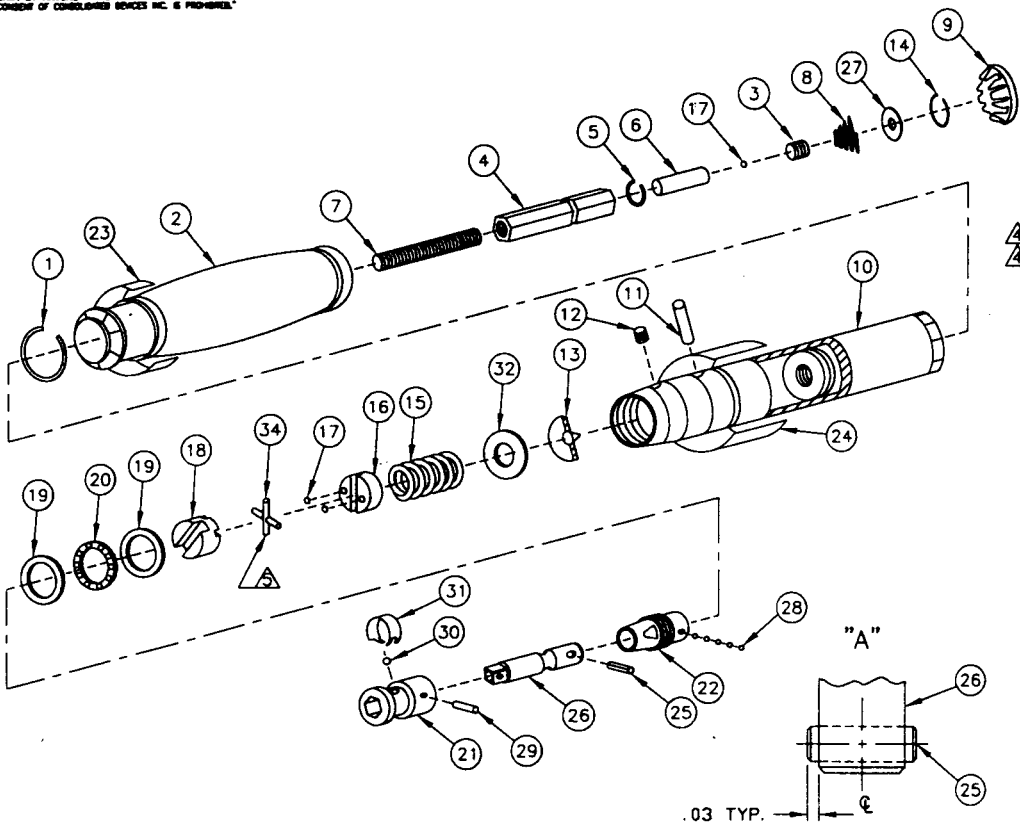
FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1" DR. RATCHET
 1000 FT.LB.

DRAWN	self	SCALE	NONE	DRAWING NO.	
APPROVED	Jay	DATE	10-20-95		216-433-TAB

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△ APPLY SMALL AMOUNT OF RTV SEALANT 739 (DOW CORNING) TO CONNECT ITEMS 34 TOGETHER. CURE FOR 24 HOURS.

△ AFTER ASSEMBLY ITEM 25 TO BE SYMMETRICALLY LOCATED TO ITEM 26, SEE DETAIL "A".

△ ITEMS 19, 20, 22, 25, 26 & 28 ASSEMBLED AS ONE COMPLETE ASSEMBLY, PART NO. 275-250.

△ ITEMS 21, 30 & 31 MAY BE FURNISHED AS ONE COMPLETE ASSEMBLY, PART NO. 275-102.

△ ITEMS 3 THRU 7 MAY BE FURNISHED AS ONE COMPLETE ASSEMBLY, PART NO. 275-47-2.

NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	H	ITEM 7 WAS 10-101-5, ITEM 17 WAS REQ'D. 2, DELETE ITEM 33, ADD NOTE △	4-8-98	ZK

34	275-110	PIN NEEDLE ROLLER	2
33			
32	10-104-1	WASHER, FLAT	1
△ 31	275-99	COMPRESSION RING	1
△ 30	10-106-8	BALL SPHERICAL	1
29	10-107-17	SPRING PIN	1
△ 28	10-106-2	BALL SPHERICAL	5
27	275-226	WASHER, SPRING RETAINER	1
△ 26	275-25-2	SHAFT, 1/4 SQ. DRIVE	1
△ 25	10-107-35	SPRING PIN	1
24	275-108	LABEL TUBE	1
23	275-109	LABEL HANDLE	1
△ 22	275-22	BUSHING	1
△ 21	275-94	ADAPTER, 1/4 SQ. - 1/4 HEX.	1
△ 20	275-14	THRUST RETAINER	1
△ 19	275-33	THRUST WASHER	2
18	275-51	CAM	1
17	10-106-6	BALL SPHERICAL	3
16	275-65	CAM, SECONDARY	1
15	275-41	SPRING, TORQUE	1
14	45-137	CLIP, HEX RETAINING	1
13	30-8	THRUST WASHER, PRESET	1
12	10-101-26	SOCKET SETSCREW	1
11	275-100	PIN, SECONDARY CAM	1
10	275-204-2	TUBE (FINISHED)	1
9	10-103-3	BUTTON PLUG	1
8	275-222	SPRING, HEX RETAINER	1
△ 7	10-101-9	SOCKET SETSCREW	1
△ 6	45-6-3	PIN, LOCK HEX	1
△ 5	45-2	CLIP, SPRING HEX BAR	1
△ 4	275-13-2	BAR, HEX, INTERNAL ADJUSTING	1
△ 3	10-101-7	SOCKET SETSCREW	1
2	275-190	HANDLE (PLASTIC)	1
1	275-85	CLIP, HANDLE	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
: 1/32 .XX ± .01 : 1/2°
: .005 : .005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
TORQUE SCREWDRIVER, MICRO ADJ.
1/4 SQ. - 1/4 HEX.
100 IN.OZ. - .07-.64 Nm

MATERIAL

FINISH

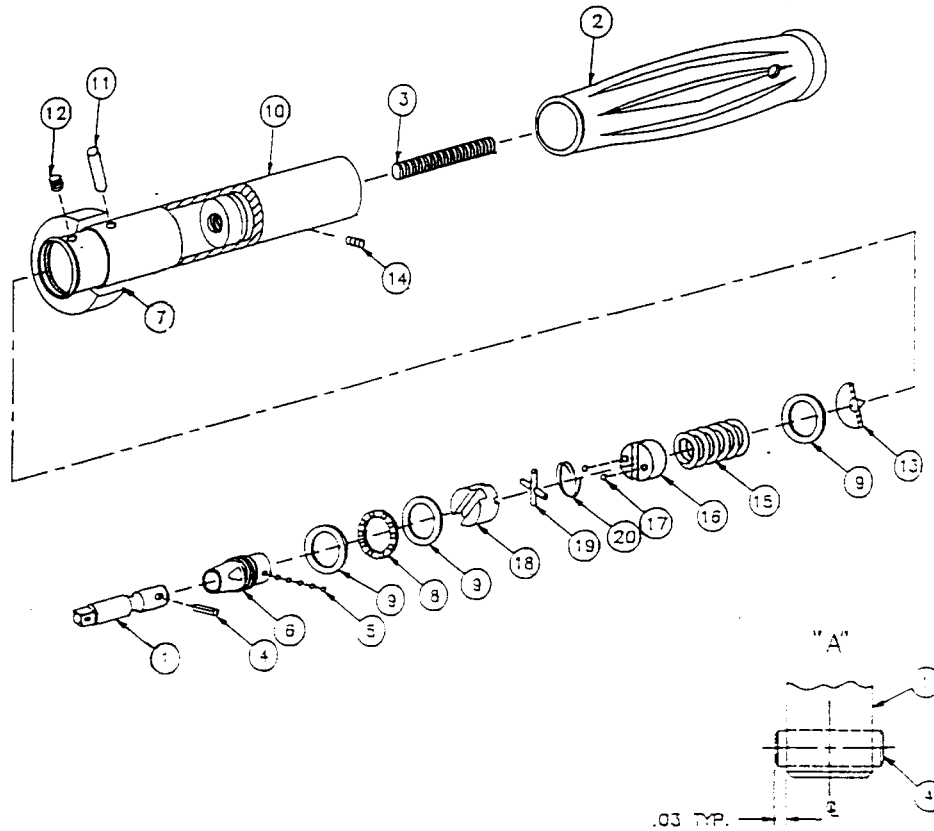
DRWING NO.	SCALE	DATE	DRWING NO.
448	NONE	07-27-88	275-169
APPROVED	Z.K.		

NOTE: THIS DRAWING IS OF CONSOLIDATED DEVICES, INC. PROPERTY. IT IS TO BE KEPT IN THE OFFICE OF THE ENGINEER OR DESIGNER WHO HAS THE CHARGE OF THE DESIGN OF THE PRODUCT. IT IS TO BE RETURNED TO THE OFFICE OF THE ENGINEER OR DESIGNER WHO HAS THE CHARGE OF THE DESIGN OF THE PRODUCT.

BY	LTR	DESCRIPTION	APPROVED
ZP	K	ADD ITEMS 19 & 20, REDRAWN	207

UNCONTROLLED COPY
For Reference Only

DATE: _____
Not valid after _____ Days



20	275-300	SPRING	1
19	275-110	PIN, NEEDLE ROLLER	1
18	275-51	CAM	1
17	10-106-6	BALL, SPHERICAL	2
16	275-65	CAM, SECONDARY	1
15	▲	SPRING, TORQUE	1
14	10-101-34	SOCKET SETSCREW	1
13	30-8	WASHER, THRUST	1
12	10-101-26	SOCKET SETSCREW	1
11	275-100	PIN, SECONDARY CAM	1
10	275-40	TUBE ASSEMBLY	1
9	275-33	WASHER, THRUST	3
8	275-14	RETAINER, THRUST	1
7	▲	LABEL TUBE	1
6	275-22	BUSHING	1
5	10-106-2	BALL, SPHERICAL	5
4	10-107-35	SPRING PIN	1
3	10-101-8	SOCKET SETSCREW	1
2	275-53-2	HANDLE, VINYL	1
1	275-64	SHAFT, DRIVE ASSEMBLY	1

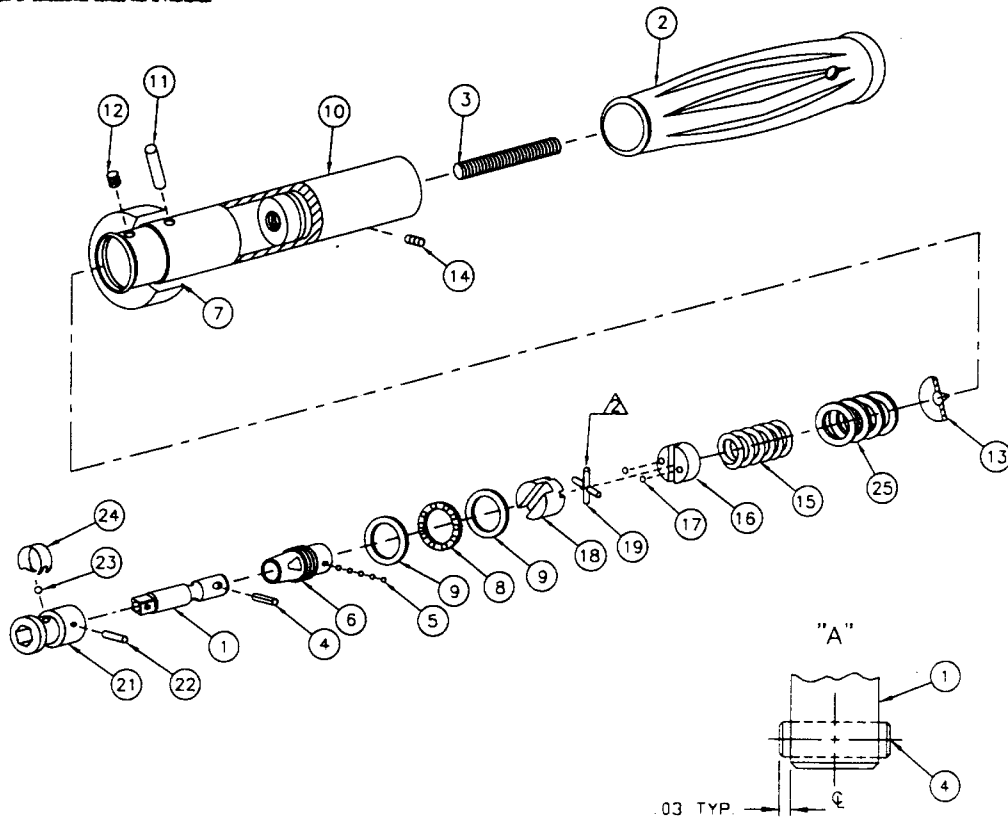
ITEM	PART NO.	DESCRIPTION	REQ'D
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/32 .005 .01 1/2°			
MATERIAL		CONSOLIDATED DEVICES, INC. City of Industry, California	
FINISH		EXPLODED ILLUSTRATION TORQUE SCREWDRIVER, PRESET 1/4" SQUARE DRIVE 100 IN.OZ., 35 IN.LB., 10 & 50 CMKG	
DATE	SCALE	DRAWING NO.	
12-15-76	NONE	275-68	

AFTER ASSEMBLY ITEM 4 TO BE SIMETRICALLY LOCATED TO ITEM 1, SEE DETAIL "A".
USE PART NO. 275-66 (ITEM NO. 15) FOR 35 IN.LB. & 50 CMKG. USE PART NO. 275-41 FOR 100 IN.OZ. & 10 CMKG.
SEE 275 SERIES PARTS LIST TO DETERMINE THE PART NO. FOR A PARTICULAR TUBE LABEL (ITEM NO. 7).

NOTES:
NOTE: UNCONTROLLED COPY

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BY	LTR	DESCRIPTION	DATE	APPROVED
JG	0	ADDED ITEM 25. ITEM 9 WAS REQ'D 3.	10-11-98	<i>Jay</i>



25	10-104-1	WASHER, FLAT	4
24	275-99	COMPRESSION RING	1
23	10-106-8	BALL SPHERICAL	5
22	10-107-17	SPRING PIN	1
21	275-94	ADAPTER, 1/4 SQ.-1/4 HEX.	1
20			
19	275-110	PIN, NEEDLE ROLLER	2
18	275-51	CAM	1
17	10-106-6	BALL, SPHERICAL	2
16	275-65	CAM, SECONDARY	1
15	▲	SPRING, TORQUE	1
14	10-101-34	SOCKET SETSCREW	1
13	30-8	WASHER, THRUST	1
12	10-101-26	SOCKET SETSCREW	1
11	275-100	PIN, SECONDARY CAM	1
10	275-40	TUBE ASSEMBLY	1
9	275-33	WASHER, THRUST	2
8	275-14	RETAINER, THRUST	1
7	▲	LABEL, TUBE	1
6	275-22	BUSHING, SHAFT	1
5	10-106-2	BALL SPHERICAL	5
4	10-107-35	SPRING PIN	1
3	10-101-8	SOCKET SETSCREW	1
2	275-53-2	HANDLE, VINYL	1
1	275-25-2	SHAFT, DRIVE ASSEMBLY	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .005 ±.01 ±1/2°
 XXXX.005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 TORQUE SCREWDRIVER, PRESET
 1/4" SQUARE DRIVE
 100 IN.OZ., 2-36 IN.LB.

DRAWN A.M.V. SCALE NONE DRAWING NO.
 APPROVED *Jay* DATE 05-31-96 275-168-TAB

▲ APPLY SMALL AMOUNT OF RTV SEALANT 739 (DOW CORNING) TO CONNECT ITEMS 28 TOGETHER. CURE FOR 24 HOURS.
 1. AFTER ASSEMBLY ITEM 4 TO BE SIMETRICALLY LOCATED TO ITEM 1, SEE DETAIL "A".

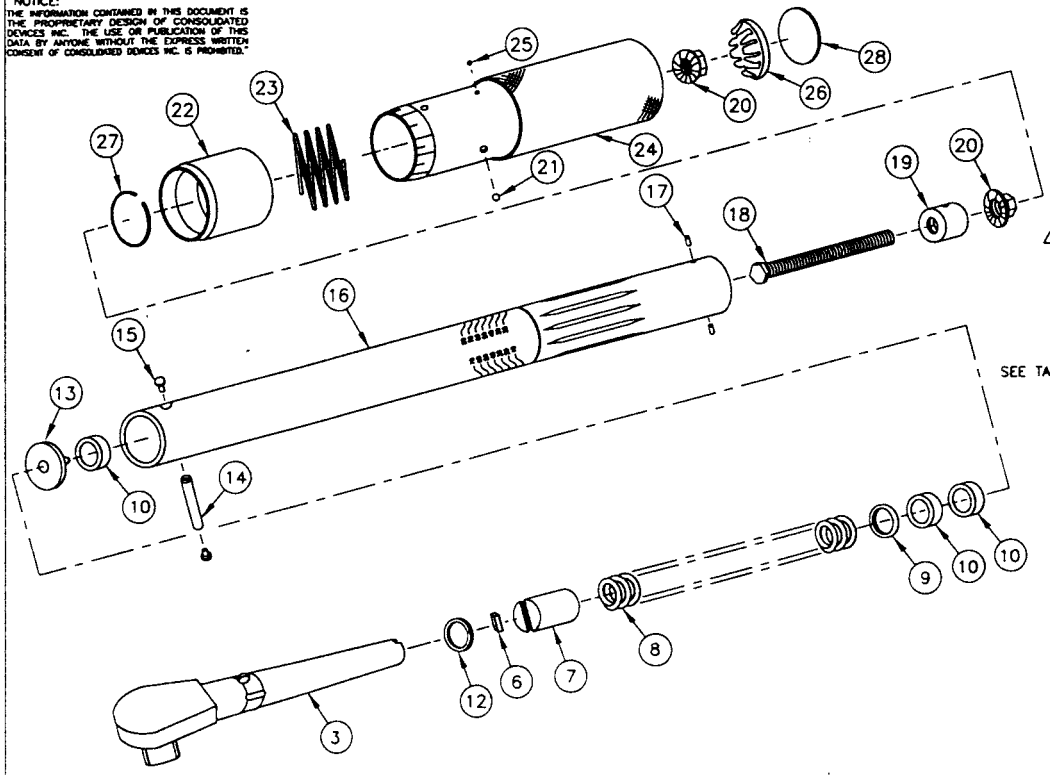
NOTES:

-3	275-58-5	275-41	CDI	1001SPOA
-2				
-1	275-158-2	275-66	BELKNAP	VB 361SPA
TAB NO.	▲ ITEM NO. 7	▲ ITEM NO. 15	CUSTOMER	MODEL NO.

NOTE: UNCONTROLLED COPY

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	E	ITEM 8 WAS 46-255, ADD ITEM 28 & NOTE Δ	1-23-98	<i>Jay</i>



29			
Δ 28	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
27	47-238-1	SPRING RING	1
26	10-103-3	BUTTON PLUG	1
25	10-106-1	BALL (3/32)	1
24	47-248-6	HANDLE ASSEMBLY (ROLL STAMPED)	1
23	47-249	SPRING, LOCK RING	1
22	Δ	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	96-204-5	TUBE (ROLL STAMPED)	1
15	45-92	RMET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-241-1	O-RING	1
11			
10	95-28-4	SPACER (.35 LONG)	3
9	10-104-1	WASHER, FLAT	6
8	46-255-1	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5			
4			
3	45-240	ARM & DRIVE ASSEMBLY	1
2			
1			
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGELS 1/32 .XX : .01 : 1/2° .XXX: .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 3/8 DR. PLAIN 100 FT.LB.	
FINISH		DRAWN <i>slp</i> SCALE NONE APPROVED <i>Jay</i> DATE 07-29-93	DRAWING NO. 46-240-TAB

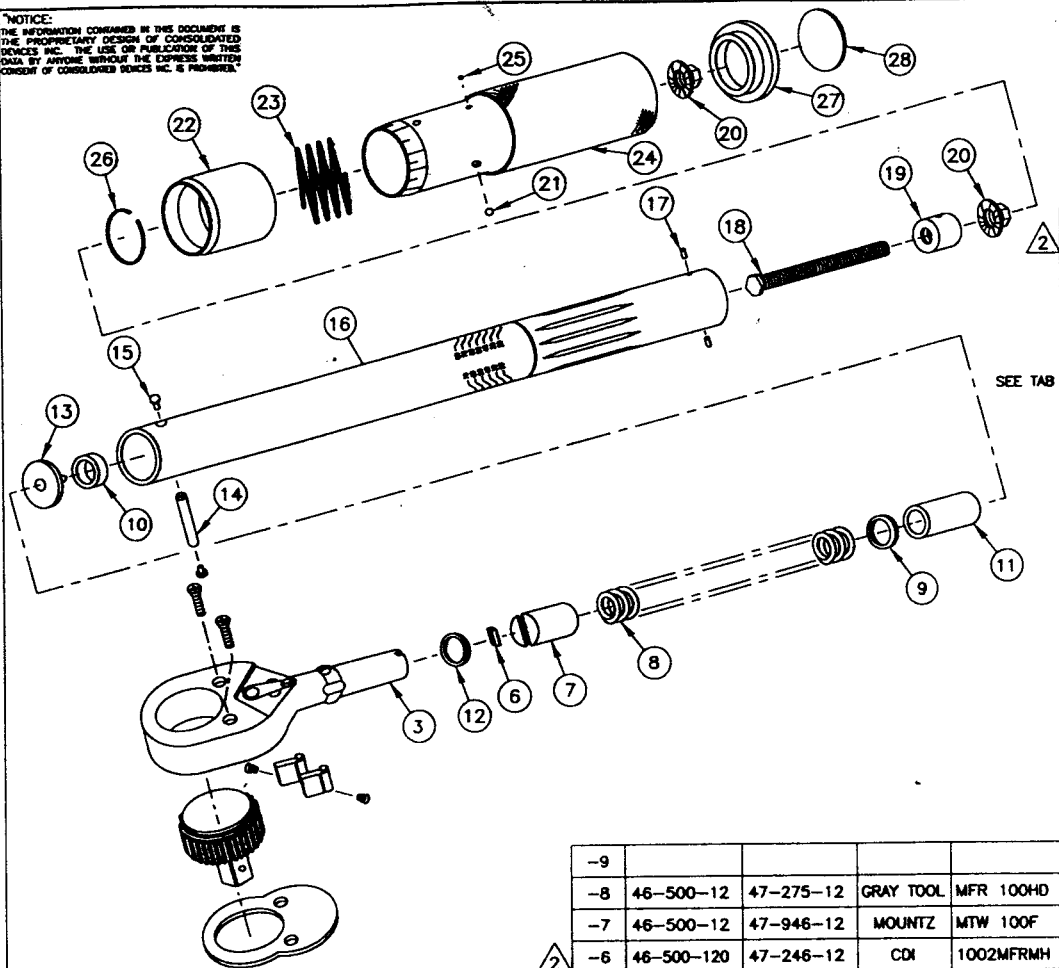
Δ USE ITEM 28 FOR CDI ONLY.
1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
NOTES:

-4			
-3			
-2			
Δ -1	47-246-11	CDI	1002MFMH
TAB NO.	ITEM NO. Δ 22	CUSTOMER	MODEL NO.

NOTE: UNCONTROLLED COPY

1002MFMH

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DEVICES INC. THE USE OR PUBLICATION OF THIS
DATA BY ANYONE WITHOUT THE EXPRESS WRITTEN
CONSENT OF CONSOLIDATED DEVICES INC. IS PROHIBITED.



BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	H	ADD TAB NO. -8	7-28-99	Jay

29				
28	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI		1
27	96-103-3	END PLUG SNAP-ON, CDI		1
26	47-238-1	SPRING RING		1
25	10-106-1	BALL (3/32)		1
24	47-248-6	HANDLE ASSEMBLY (ROLL STAMP)		1
23	47-249	SPRING, LOCK RING		1
22	▲	LOCK RING		1
21	10-106-8	BALL (1/8)		1
20	47-245-1	HEX FLANGE NUT		2
19	47-241	INSERT, TUBE		1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)		1
17	47-240	PIN		2
16	96-204-5	TUBE (ROLL STAMP)		1
15	45-92	RIVET, PIVOT PIN		2
14	45-91	PIN, PIVOT		1
13	30-8	WASHER, THRUST		1
12	10-241-1	O-RING		1
11	95-28-2	SPACER (1.00 LONG)		1
10	95-28-4	SPACER (.35 LONG)		1
9	10-104-1	WASHER, FLAT		1
8	46-255-1	SPRING, TORQUE		1
7	45-251	CAM		1
6	45-253-1	PAWL		1
5				
4				
3	▲	RATCHET BODY		1
2				
1				

ITEM	PART NO.	DESCRIPTION	REQ'D
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-9				
-8	46-500-12	47-275-12	GRAY TOOL	MFR 100HD
-7	46-500-12	47-946-12	MOUNTZ	MTW 100F
▲ -6	46-500-120	47-246-12	CDI	1002MFRMH
-5	46-500-12	47-258-12	V. BELKNAP	VB 1002MFRMH
-4	46-500-12	47-273-12	WILLIAMS	BTW-2RCFA
-3	46-500-12	47-259-12	WRIGHT TOOL	3477
-2	46-500-12	47-250-3	CAT	9U5020
▲ -1	46-500-12	47-246-12	CDI	1002MFRMH-QR
TAB NO.	ITEM NO. 3	ITEM NO. 22	CUSTOMER	MODEL NO.

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .005 ±.01 ±1/2°
.0005 .005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO ADJ. WRENCH 3/8 DR. RATCHET
100 FT.LB.

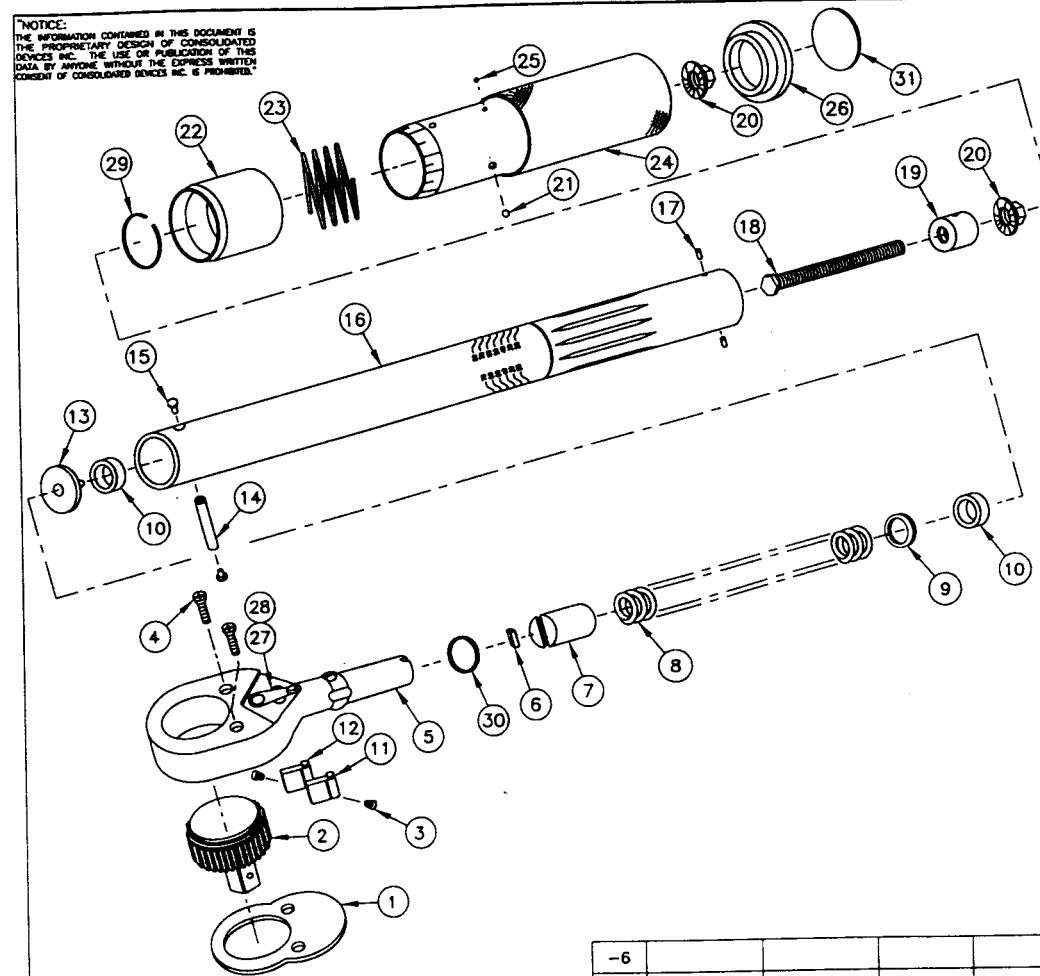
DRAWN <i>Jay</i>	SCALE NONE	DRAWING NO.
APPROVED <i>Jay</i>	DATE 09-19-95	46-244-TAB

▲ USE ITEM 28 FOR CDI ONLY.
1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
NOTES:

NOTE: UNCONTROLLED COPY

1002MFRMH - QR
1002MFRMH

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△ USE ITEM 31 FOR CDI ONLY.

△ PURCHASED AS ASSY. 46-500-12.

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

NOTE: UNCONTROLLED COPY

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	E	ITEM 9 WAS REQ'D. A/R, ITEM 10 WAS 95-28-3 REQ'D. 1, ITEM 18 WAS 47-342-3, ITEM 26 WAS 10-103-3, ADD ITEMS 30, 31 NOTE 3	6-7-99	Joy

32			
31	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
30	10-241-1	O-RING	1
29	47-238-1	SPRING RING	1
28		REVERSING CAM	1
27		REVERSING LEVER	1
26	96-103-3	END PLUG SNAP-ON, CDI	1
25	10-106-1	BALL (3/32)	1
24	47-348-16	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-4	ADJUSTING SCREW (2.00 LONG)	1
17	47-240	PIN	2
16	△	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12		DOG, RIGHT	1
11		DOG, LEFT	1
10	95-28-4	SPACER (.35 LONG)	2
9	10-104-1	WASHER, FLAT	3
8	95-246-1	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	46-500-12	RATCHET BODY	1
4		SCREW	2
3		SPRING	2
2		RATCHET WHEEL	1
1		PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .XX : .01 ±1/2°
.XXX: .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. RATCHET
60 Nm & 42.4 FT.LB./100 Nm & 72 FT.LB.

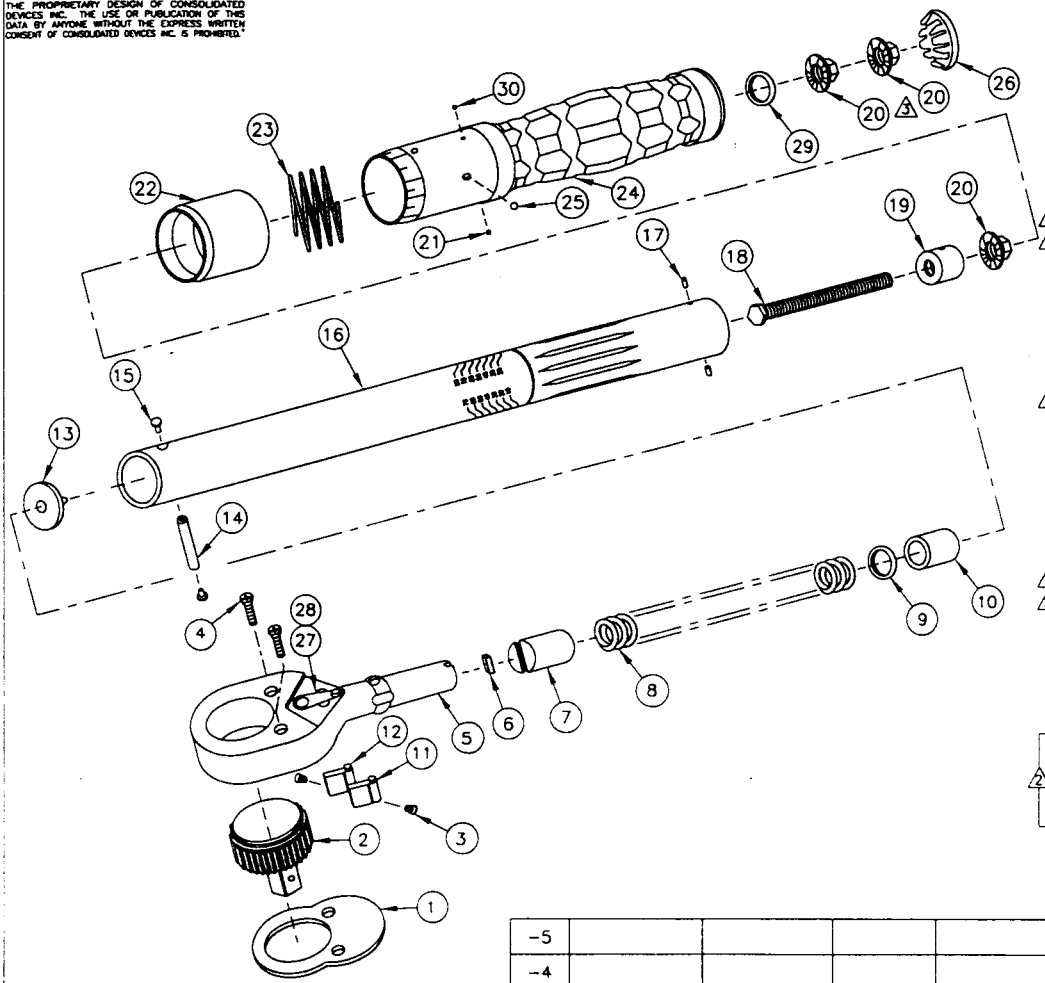
DRAWN	SCALE	NONE	DRAWING NO.
del			46-630-TAB
APPROVED	DATE	06-10-95	
Joy			

-6				
-5				
-4	96-208-7	47-646-2	CDI	602NMRMH
-3	96-208-6	47-646-10	CDI	1002NMRMH
-2	96-208-7	47-270-2	CARLSON	602NMRMH
-1	96-208-6	47-270-10	CARLSON	1002NMRMH
TAB NO.	ITEM NO. 16	ITEM NO. 22	CUSTOMER	MODEL NO.

602NMRMH 1002NMRMH

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 CONSENT OF CONSOLIDATED DEVICES INC. IS PROHIBITED.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	D	DELETE NOTE 5	12-23-98	Jay



- 4. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.
 - Δ 3. ITEM 20 ASSEMBLY AS SHOWN.
 - Δ 2. PURCHASED AS ASSEMBLY 46-500-12.
 - 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
- NOTES:

30	10-106-2	BALL (.1094 DIA.)	1
29	10-304	WASHER	1
28		REVERSING CAM	1
27		REVERSING LEVER	1
26	10-103-3	BUTTON PLUG	1
25	10-106-5	BALL (5/32)	1
24	47-344-18	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22	Δ	LOCK RING	1
21	10-106-8	BALL (1/8)	1
Δ 20	47-245-1	HEX FLANGE NUT	3
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW	1
17	47-240	PIN	2
16	Δ	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
Δ 12		DOG, RIGHT	1
Δ 11		DOG, LEFT	1
10	95-28-3	SPACER	1
9	10-104-1	WASHER, FLAT	A/R
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5		RATCHET BODY	1
4		SCREW	2
3		SPRING	2
2		RATCHET WHEEL	1
1		PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

-5					
-4					
-3	96-208-7	47-680-2	OLY	60QLN	
-2	96-208-6	47-680-10	OLY	100QLN	
-1	96-208-6	47-276-10	EUR/ACESA	Nº 3700.006	
TAB NO.	ITEM NO.	ITEM NO.	CUSTOMER	MODEL NO.	

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 :1/32 .XX ± .01 :1/2°
 .XXX ± .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/8 DR. RATCHET
 60 Nm & 42.4 FT.LB./100 Nm & 72 FT.LB. - PLASTIC HANDLE

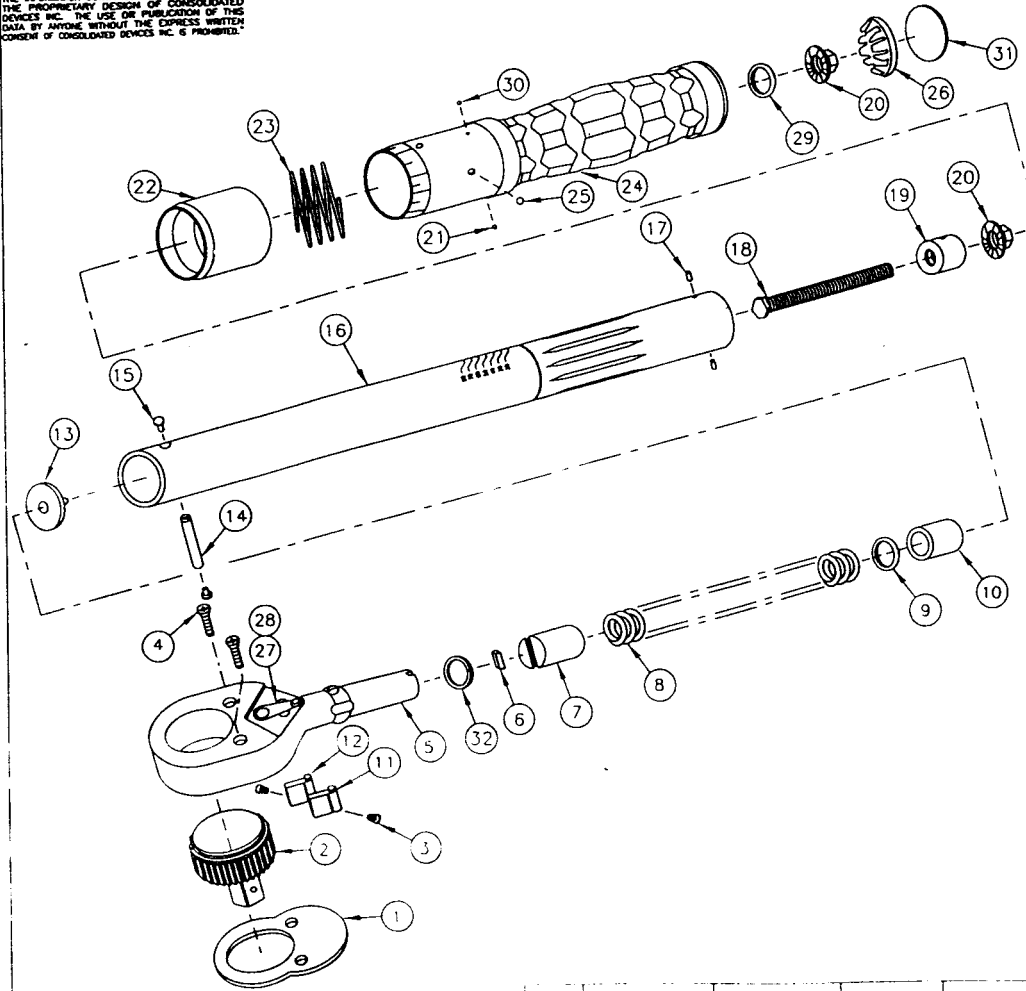
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	07-29-96	46-731-TAB

NOTE: UNCONTROLLED COPY

REF. C&I 1002NMRPH
 REF. C&I 602AMRPH

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ITEM 6 WAS 45-253-1, ITEM 22 WAS 47-346, ITEM 24 WAS 47-344-8, 1002NMRPHS WAS 1002NMRPH, ADD ITEMS 29 THRU 32, TAB NO. -2, REDRAWN	1-23-98	Jay



32	10-241-1	O-RING	1
31	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
30	10-106-2	BALL (.1094 DIA.)	1
29	10-304	WASHER	1
28		REVERSING CAM	1
27		REVERSING LEVER	1
26	10-103-3	BUTTON PLUG	1
25	10-106-5	BALL (5/32)	1
24	47-344-38	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22		LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16		TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12		DOG, RIGHT	1
11		DOG, LEFT	1
10	95-28-3	SPACER (.60 LONG)	1
9	10-104-1	WASHER, FLAT	A/R
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	46-353-0	PAWL	1
5		RATCHET BODY	1
4		SCREW	2
3		SPRING	1
2		RATCHET WHEEL	1
1		PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGELS
±1/32 .XX ±.01 ±1/2°
XXX: .005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. RATCHET
60 Nm, 100 Nm - PLASTIC HANDLE

DRAWN	Jay	SCALE	NONE	DRAWING NO.	46-730-TAB
APPROVED	Jay	DATE	01-12-96		

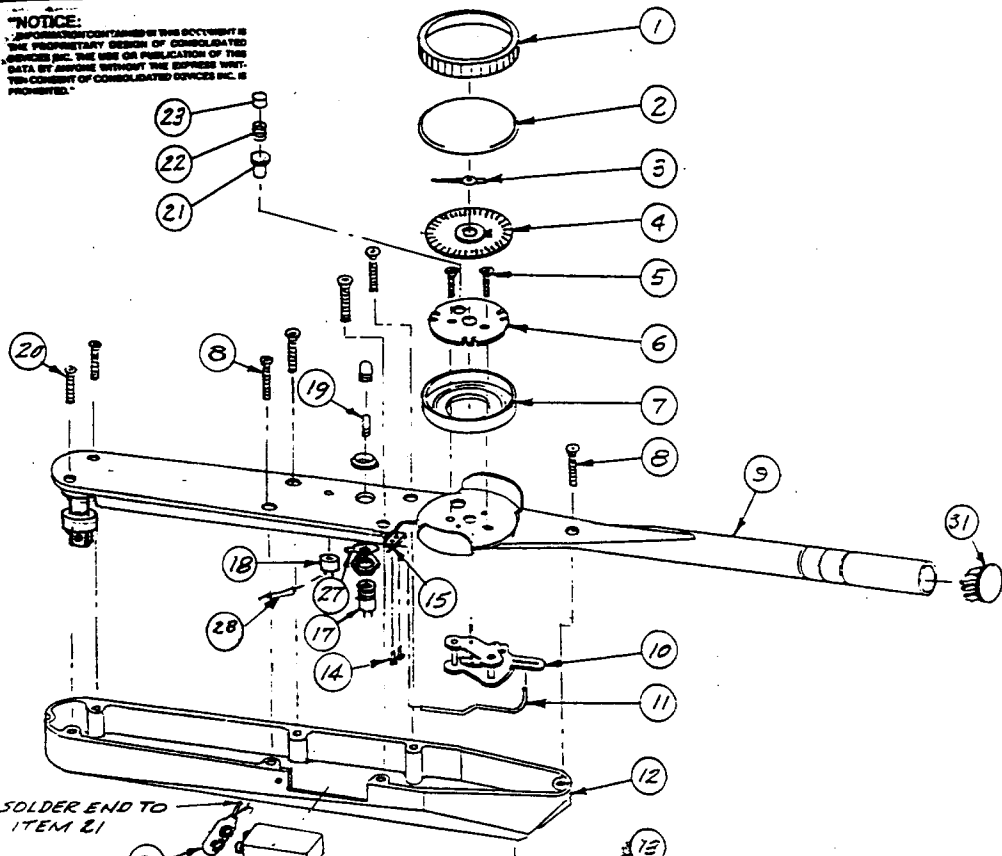
-3					
-2	96-209-7	47-346-32	CDI	602NMRPHS	
-1	96-209-6	47-346-40	CDI	1002NMRPHS	
TAB NO.	ITEM NO. 16	ITEM NO. 22	CUSTOMER	MODEL NO.	

△ PURCHASED AS ASSEMBLY 46-500-12.
1. FOR WRENCHES TO BE RECALIBRATED SEE 46-353-TAB.
NOTES:

NOTE: UNCONTROLLED COPY

602NMRPHS, 1002NMRPHS

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1. FOR WIRING DETAIL & ITEMS 27 & 29 ASSY. SEE 84-10-1
 2. ITEM 9 FOR 100 FT. LB. USE 44-208-B FOR 175 & 250 FT. LB. USE 44-208-9
NOTE:

QTY	PART NO.	DESCRIPTION	REMARKS
8	48-139-80	0-350 Nm 0-250 FT. LB.	EON / PALMERA Cdn. 200.522
7			H. WERNER TIE SC
6	48-139-16	0-350 FT. LB. 0-250 Nm	H. WERNER TIE SC
5	48-37-58	0-100 FT. LB. 0-70 Nm	CARLSON 1003 LDFE
4	48-139-55	0-350 FT. LB. 0-250 Nm	NAME STD-B-28DF
3	48-139-8	0-350 FT. LB. 0-250 Nm	CDI 2503 LDFE
2	48-139-9	0-100 FT. LB. 0-70 Nm	1753 LDFE
1	48-139-6	0-350 FT. LB. 0-250 Nm	201 1003 LDFE
TAB. NO.	SCALE	REVISION	CUST

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	H	ADD TAB. NO. 8	8-7-77	[Signature]

31	10-103-7	BUTTON PLUG	1
30	44-8	CABLE TIE (NOT SHOWN)	1
29	44-9	MOUNTING DEVICE (NOT SHOWN)	1
28	81-19-11	RESISTOR, CARBON FILM	1
27	44-7	FLAT SOLDER TERMINAL	1
26	84-19	COVER & CLIP ASSY.	1
25	81-6	BATTERY	1
24	81-37	BATTERY PLUG	1
23	40-115	PLUNGER	1
22	10-105-2	SPRING	1
21	40-102	RETAINER, SPRING	1
20	10-235-1	SCREW, SELF TAPPING PLATE	5
19	44-6	LAMP	1
18	81-28	BUEZZER	1
17	44-5	LAMP HOLDER	1
16	10-227-1	FL. HD. TAPPING SCREW	1
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	84-34-1	CASE	1
11	84-11-2	PUSH ROD	1
10	10-113	MOVEMENT	1
9	▲	PLATE & GUARD ASSY	1
8	10-235-4	SCREW, SELF TAPPING - FEET	2
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE ASSY.	1
3	48-18-2	POINTER	1
2	48-91	CRYSTAL	1
1	48-34	BEZEL	1

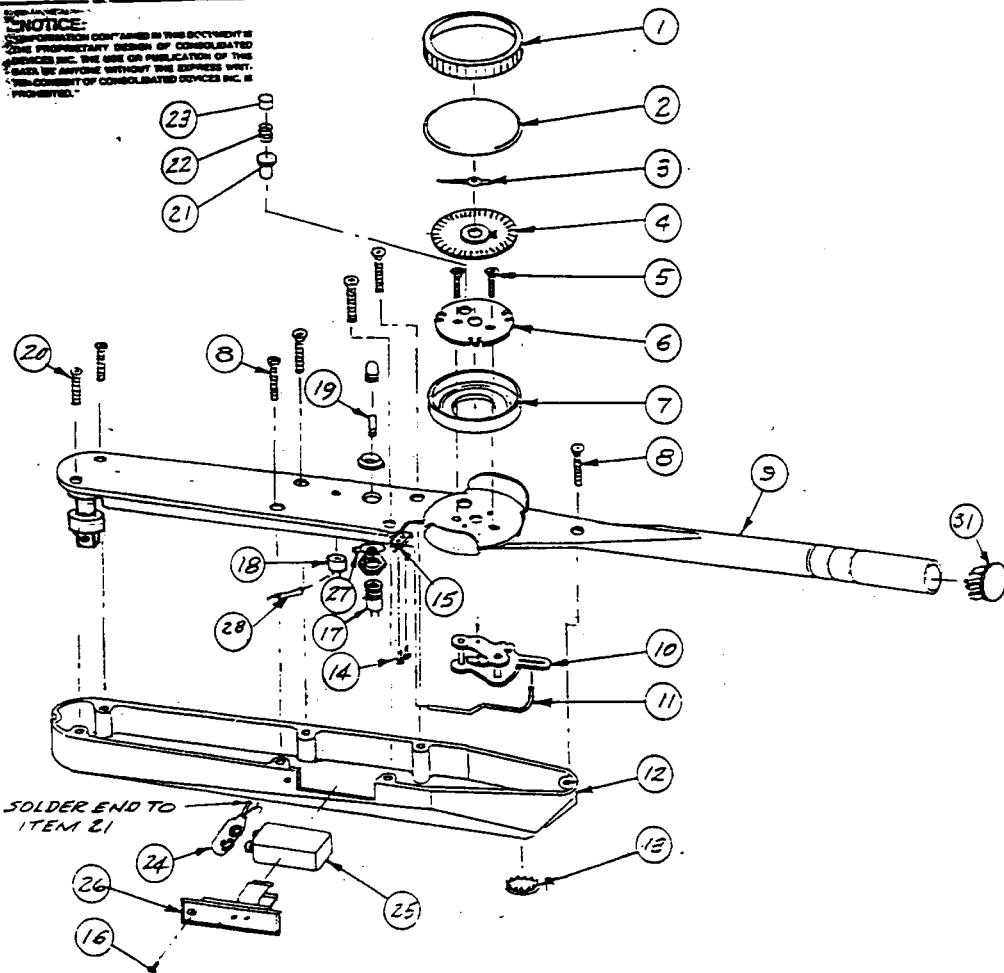
CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION 1/2 DR. DIAL WRENCH (ELECTRIC BEEPER)			
-100 FT. LB., 175 FT. LB., 250 FT. LB.			
DRAWN	ZJS	SCALE	DRAWING NO.
APPROVED	[Signature]	DATE	84-171-TAB

1003 LDFE
 1753 LDFE
 2503 LDFE

TORSION - COMMERCIAL

NOTE: UNCONTROLLED COPY

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 TEN CONSENT OF CONSOLIDATED DEVICES INC. IS
 PROHIBITED.



1. FOR WIRING DETAIL & ITEMS 27 & 29
 ASSY. SEE B4-10.-1

NOTE:

1	48-139-69	44-308-9	175 FT LB 240 N.M.	BEITOOOL
TAB NO.	SCALE	ITEM	RANGE	CUSTOMER

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED

31	10-103-7	BUTTON PLUG	1
30	44-8	CABLE TIE (NOT SHOWN)	1
29	44-9	MOUNTING DEVICE (NOT SHOWN)	1
28	81-19-11	RESISTOR, CARBON FILM	1
27	44-7	FLAT SOLDER TERMINAL	1
26	84-19	COVER & CLIP ASSY.	1
25	81-6	BATTERY	1
24	81-37	BATTERY PLUG	1
23	40-115	PLUNGER	1
22	10-105-2	SPRING	1
21	40-102	RETAINER, SPRING	1
20	10-237-4	SCREW, SELF TAPPING PLATE	5
19	44-6	LAMP	1
18	81-28	BUEZER	1
17	44-5	LAMP HOLDER	1
16	10-227-1	FLND. TAPPING SCREW	1
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	84-34-1	CASE	1
11	84-11-2	PUSHROD	1
10	10-113	MOVEMENT	1
9	10-113	PLATE & GUARD ASSY	1
8	10-237-4	SCREW, SELF TAPPING - REFR	2
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	10-109-3	SCALE ASSY.	1
3	48-18-2	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/2 .XX ± .01 = 1/2°
 .XXX = .005

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION 1/2 DR.
 DIAL WRENCH (ELECTRIC BEEPER)

100 FT LB, 175 FT LB, 250 FT LB.

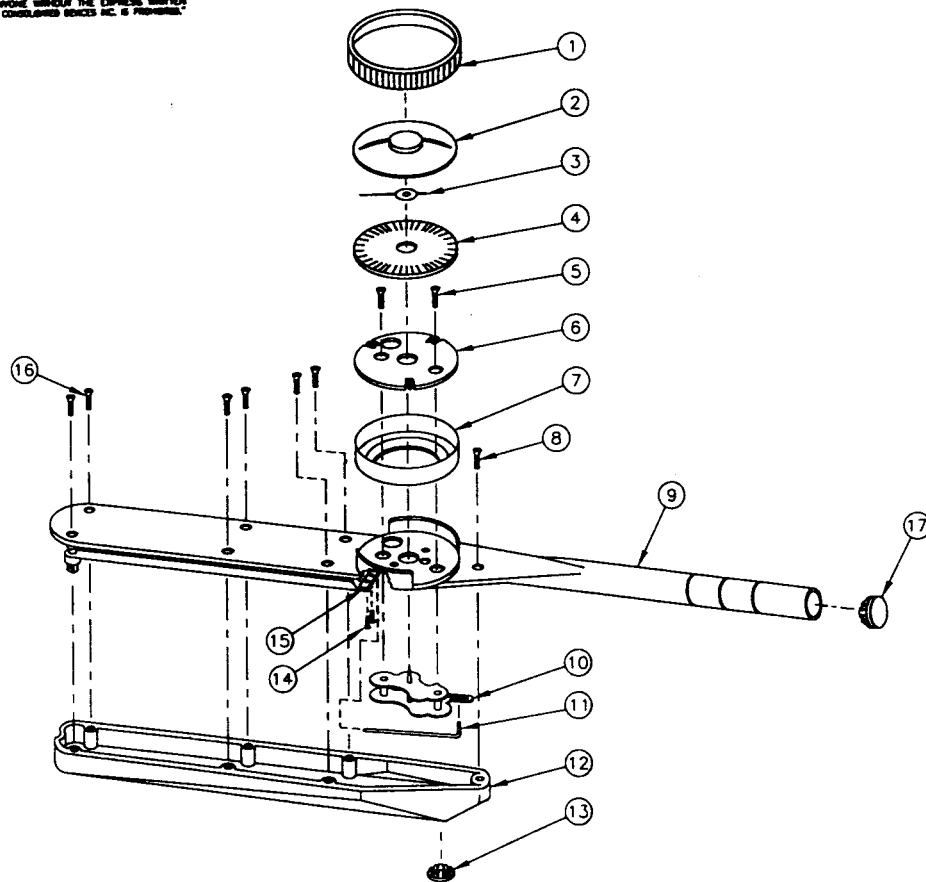
DATE	SCALE	DRAWING NO.
1-6-94	---	84-371-TAB

1003 LDFE
 1753 LDFE
 2503 LDFE

TORSION - COMMERCIAL PAINTED

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	AA	ADD TAB NOS. 47, 48 & 49	8-3-99	ZK



SHEET 1 OF 2
SEE SHEET 2 OF 2 FOR TAB. NO'S.

ITEM	PART NO.	DESCRIPTION	REQ'D
17	10-103-7	BUTTON PLUG	1
16	10-235-1	SCREW SELF TAPPING-PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	80-34-4	CASE	1
11	84-11-1	PUSH ROD	1
10	10-113	MOVEMENT	1
9	▲	HANDLE, CHANNE, PLATE & GUARD ASSEMBLY	1
8	10-235-4	SCREW, SELF TAPPING - REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE	1
3	48-18-2	POINTER	1
2	48-132	MEMORY POINTER ASSEMBLY	1
1	48-84	BEZEL	1

DESCRIPTION

REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .XX ±.01 ±1/2°
.XXXX .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
DIAL WRENCH 1/2 DR. (MEMORY) TORSION
100 FT.LB., 175 FT.LB., 250 FT.LB.

DRAWN	Z.J.S.	SCALE	NONE	DRAWING NO.
APPROVED	Z.K.	DATE	09-05-90	88-161-TAB

NOTES:

NOTE: UNCONTROLLED COPY

1003LDFN
1753LDFN
2503LDFN

SHEET 1 OF 2

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	AA	SEE SHEET 1 OF 2 FOR REVISIONS.	8-3-90	<i>Jay</i>

25	48-208-10	88-205-65	0-25 MKG 0-175 FT.LB.	C.D.I. 1753KLDNFN	
24	48-208-9	88-202-65	0-14 MKG 0-100 FT.LB.	C.D.I. 1003KLDNFN	
23	48-208-10	88-201-53	0-250 FT.LB. 0-350 Nm	WRIGHT TOOL 4471	
22	48-208-10	88-200-53	0-175 FT.LB. 0-240 Nm	WRIGHT TOOL 4470	
21	48-208-10	88-204-42	0-35 MKG 0-250 FT.LB.	CARLSON 2503KLDNFN	
20	48-208-10	88-205-42	0-25 MKG 0-175 FT.LB.	CARLSON 1753KLDNFN	
19	48-208-9	88-202-42	0-14 MKG 0-100 FT.LB.	CARLSON 1003KLDNFN	
18	48-208-10	88-201-60	35 KGM 250 FT.LB.	OLY 35000B4	
17	48-208-10	88-200-60	24 KGM 175 FT.LB.	OLY 24000B4	
16	48-208-9	88-232-60	14 KGM 100 FT.LB.	OLY 14000B4	
15	48-208-10	88-201-52	0-250 FT.LB. 0-350 Nm	T & E TOOLS	
14	48-208-10	88-201-8	0-250 FT.LB. 0-350 Nm	WILLIAMS STD-2-250F	
13	48-208-10	88-210-9	0-350 Nm 0-35 MKP	H. WERNER 7115C	
12	48-208-10	88-211-9	0-240 Nm 0-24 MKP	H. WERNER 7114C	
11	48-208-10	88-204-10	0-250 FT.LB. 0-35 MKG	2503LDFN	
10	48-208-10	88-200-29	0-175 FT.LB. 0-240 Nm	FACOM S250A	
9	48-208-10	88-200-46	0-175 FT.LB. 0-240 Nm	CAT 9U5016	
8	SEE SEPARATE DRAWING			KTC CMD143	
7	SEE SEPARATE DRAWING			KTC CMD243	
6	SEE SEPARATE DRAWING			KTC CMD353	
5	48-208-10	88-201-39	0-250 FT.LB. 0-350 Nm	OTC 7363	
4	48-208-10	88-200-39	0-175 FT.LB. 0-240 Nm	OTC 7362	
3	48-208-10	88-201-10	0-250 FT.LB. 0-350 Nm	2503LDFN	
2	48-208-10	88-200-10	0-175 FT.LB. 0-240 Nm	1753LDFN	
1	48-208-9	88-232-10	0-100 FT.LB. 0-140 Nm	1003LDFN	
TAB NO.			SCALE	RANGE	CUSTOMER

50					
49	SEE SEPARATE DRAWING			KTC CMD143	
48	SEE SEPARATE DRAWING			KTC CMD243	
47	SEE SEPARATE DRAWING			KTC CMD353	
46	48-208-10	88-200-51	0-250 FT.LB. 0-350 Nm	URREA 8125	
45	48-208-10	268-67	0-250 FT.LB. 0-350 Nm	SJK 75250	
44	48-208-10	88-25	0-175 FT.LB. 0-240 Nm	SJK 75175	
43	48-208-10	88-201-24	0-250 FT.LB. 0-350 Nm	MAC TWD V250FT	
42	48-208-10	88-205-13	0-250 Nm 0-175 FT.LB.	PROTO P#2 6121NMA	
41	48-208-10	88-204-13	0-250 FT.LB. 0-35 MKG	PROTO P#1 8125A	
40	48-208-10	88-203-13	0-175 FT.LB. 0-24 MKG	PROTO P#1 8121A	
39	48-208-10	88-201-13	0-350 Nm 0-250 FT.LB.	PROTO P#2 6126NMA	
38	48-208-10	88-201-26	0-250 FT.LB. 0-350 Nm	ARMSTRONG 64-405	
37	48-208-10	88-200-26	0-175 FT.LB. 0-240 Nm	ARMSTRONG 64-402	
36	48-208-10	88-201-67	0-350 Nm	C.D.I. 350NLDN	
35	48-208-10	88-205-21	0-25 MKG 0-175 FT.LB.	URREA 6121-A	
34	48-208-10	88-200-70	0-240 Nm 0-175 FT.LB.	EUR/PALMERA Cod. 200.521	
33	48-208-10	88-201-62	0-250 FT.LB. 0-350 Nm	V. BELKNAP VB 2503LDFN	
32	48-208-10	88-200-49	0-175 FT.LB. 0-240 Nm	USAG 823/240	
31	48-208-10	88-200-62	0-175 FT.LB. 0-240 Nm	V. BELKNAP VB 1753LDFN	
30	48-208-9	88-202-9	0-14 MKP 0-140 Nm	H. WERNER 1003LDFN-HW	
29	48-208-10	88-201-68	0-350 Nm 0-250 FT.LB.	EUR/ACESA N# 3710.015	
28	48-208-10	88-200-68	0-240 Nm 0-175 FT.LB.	EUR/ACESA N# 3710.012	
27	48-208-9	88-232-62	0-100 FT.LB. 0-140 Nm	V. BELKNAP VB 1003LDFN	
26	48-208-10	88-204-65	0-35 MKG 0-250 FT.LB.	C.D.I. 2503KLDNFN	
TAB NO.			SCALE	RANGE	CUSTOMER

SHEET 2 OF 2

17	10-103-7	BUTTON PLUG	1
16	10-235-1	SCREW SELF TAPPING-PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	80-34-4	CASE	1
11	84-11-1	PUSH ROD	1
10	10-113	MOVEMENT	1
9		HANDLE, CHANNE, PLATE & GUARD ASSEMBLY	1
8	10-235-4	SCREW, SELF TAPPING - REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4		SCALE	1
3	48-18-2	POINTER	1
2	48-132	MEMORY POINTER ASSEMBLY	1
1	48-84	BEZEL	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .001 .01 ±1/2°
XXX.005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
DIAL WRENCH 1/2 DR. (MEMORY) TORSION
100 FT.LB., 175 FT.LB., 250 FT.LB.

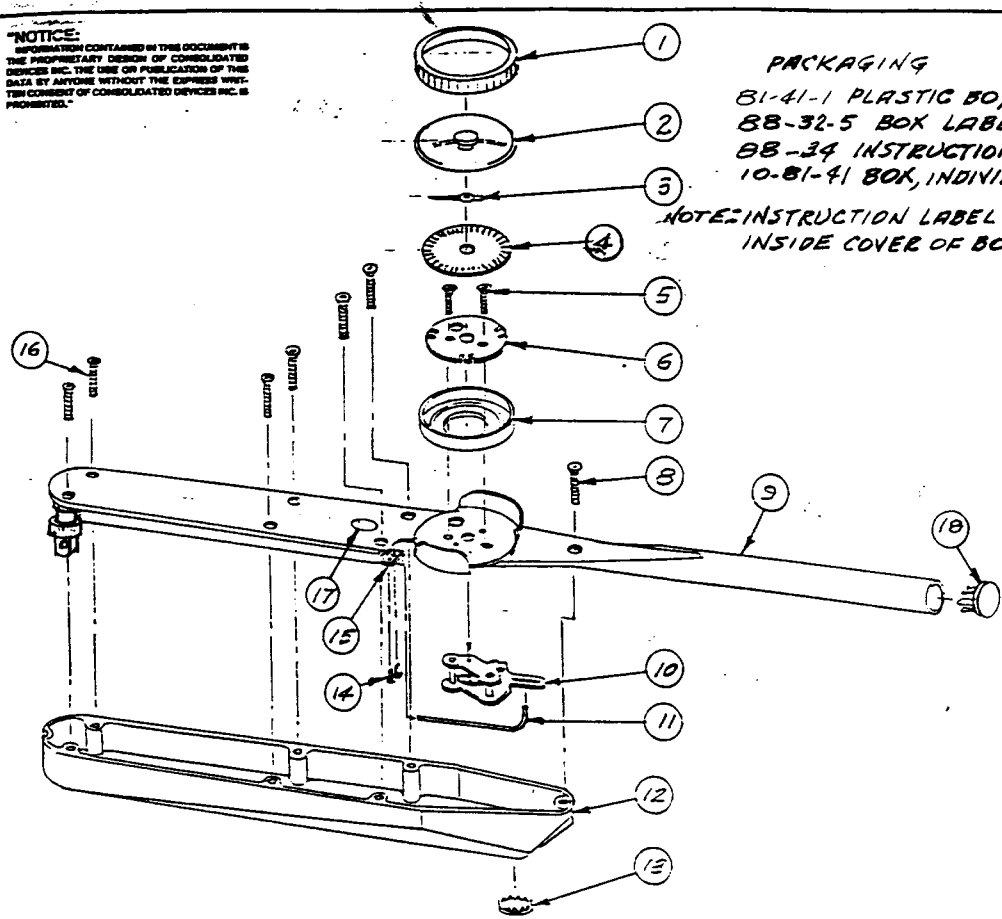
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>Jay</i>	DATE	08-15-96	88-161-TAB

NOTES:

NOTE: UNCONTROLLED COPY

1003LDFN
1753LDFN
2503LDFN
SHEET 2 OF 2

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PACKAGING
 B1-41-1 PLASTIC BOX
 BB-32-5 BOX LABEL
 BB-34 INSTRUCTION LABEL
 10-B1-41 BOX, INDIVIDUAL

NOTE: INSTRUCTION LABEL TO BE ON INSIDE COVER OF BOX.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ADD 10-B1-41 BOX TO PACKAGING.	3/22/91	[Signature]
ZJS	B	ADD ITEM 18	7-21-92	ZJS
ZJS	C	ITEM 8 WAS 10-165-1 ITEM 16 WAS 10-165-2	9/11/92	ZJS

18	10-109-7	BUTTON PLUG	1
17	BB-35	INSPECTION LABEL	1
16	10-235-1	SCREW, SELF TAPPING - PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	80-34-4	CASE	1
11	80-11-1	PUSHROD	1
10	10-113	MOVEMENT	1
9	48-80B-9	HANDLE CHANNEL, BEAM & GUARD ASSY	1
8	10-235-4	SCREW, SELF TAPPING - REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	BB-80Z-15	SCALE	1
3	45-15-2	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-34	BEZEL	1

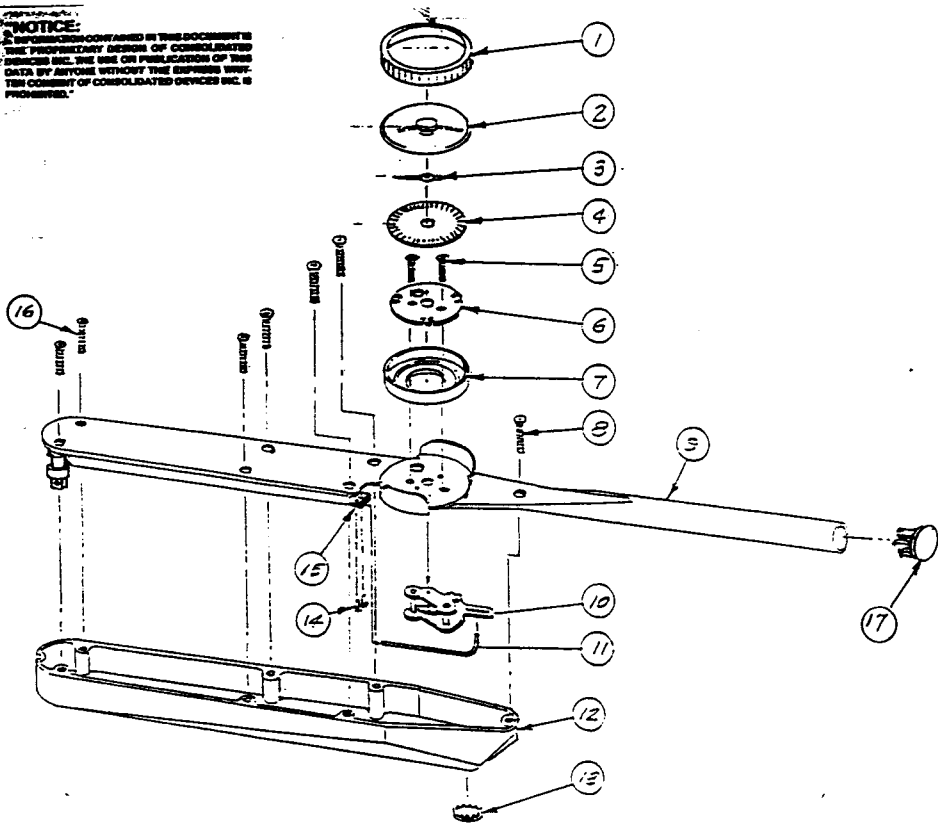
CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION DIAL WRENCH (MEMORY) 1/2 DR. TORSION 1400 Kgf-CM-140NM			
DRAWN ZJS		SCALE —	DRAWING NO.
APPROVED [Signature]		DATE 9/12/90.	8816F8

13 BISHOP GRAPHICS/ACQUISITION
 REORDER NO. 42841

NOTE: UNCONTROLLED COPY

1003 LDFN KTC CMD123

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZLS	A	ADD TAB NO. 6	3/22/91	[Signature]
ZLS	B	ADD TAB 7 & ADD B W TAB	12-9-91	[Signature]
ZLS	C	ADD ITEM 17	7-21-92	[Signature]
ZLS	D	ITEM 8 NRS 10-165-1 ITEM 16 NRS 10-165-2	9/11/92	[Signature]

17	10-103-7	BUTTON PLUG	1
16	10-235-1	SCREW SELF TAPPING - PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	80-344	CASE	1
11	80-11-1	PUSH ROD	1
10	10-113	MOVEMENT	1
9	10-135-4	HANDLE CHANNEL PLATE & GUARD ASSY	1
8	48-83	SCREW, SELF TAPPING - REAR	1
7	48-87	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	48-15-2	SCALE	1
3	48-15-2	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-81	BEZEL	1

SEE TAB 3

7	48-208-37	88-202-10	0-100 FT. LB. 0-14 MMg	1003 LDFN
6	48-208-38	88-204-10	0-250 FT. LB. 0-35 MMg	2503 LDFN
5		SEE SEPARATE DWG. (SPEC. LENGTH)		
4	48-208-38	88-203-10	0-175 FT. LB. 0-24 MMg	1753 LDFN
3	48-208-38	88-201-10	0-250 FT. LB. 0-350 MMg	2503 LDFN
2	48-208-38	88-200-10	0-175 FT. LB. 0-240 MMg	1753 LDFN
1	48-208-37	88-232-10	0-100 FT. LB. 0-140 MMg	1003 LDFN
TAB NO.		⊠	⊠ SCALE RANGE	MODEL

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .132 XX = .01 = 14° = .005 XXX = .005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION DIAL WRENCH (MEMORY) 1/2 DR.			
SER. 88 100 FT. LB., 175 FT. LB., 250 FT. LB.			
DRAWN Z.J.S.		SCALE	DRAWING NO.
APPROVED [Signature]		DATE 12/7/90.	88-162-TAB

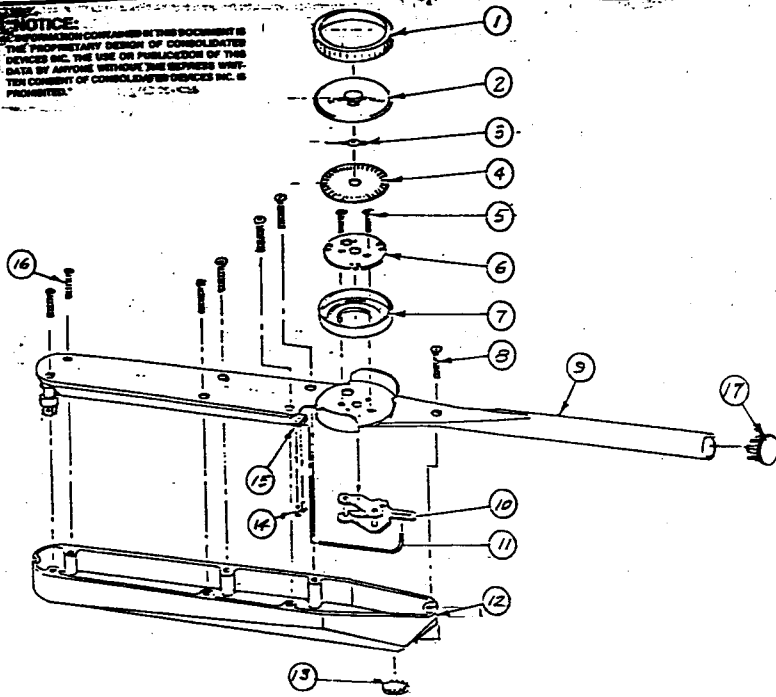
NOTE:

NOTE: UNCONTROLLED COPY

1003 LDFN
1753 LDFN
2503 LDFN

(TORSION) MEMORY G.S.A.

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REVISIONS			
BY	LTR	DESCRIPTION	DATE

17	10-103-7	BUTTON PLUG	1
16	10-237-4	SCREW, SELF TAPPING - PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	80-34-4	CASE	1
11	80-11-1	PUSH ROD	1
10	10-113	MOVEMENT	1
9	A	HANDLE CHANNEL, PLATE & GUARD ASSY	1
8	10-237-4	SCREW, SELF TAPPING - REAR	1
7	48-B3	RING, BEZEL MOUNTING	1
6	40-B2	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	A	SCALE	1
3	48-16-2	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 $\pm 1/32$ $\pm .01$ $\pm 1/2^\circ$
 XXX $\pm .005$

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (MEMORY) 1/2 DR.

SEE 88 100 FT. LB., 175 FT. LB., 250 FT. LB.

FINISH	DRAWN Z.J.S.	SCALE ---	DRAWING NO.
MATERIAL	APPROVED Joy	DATE 1-6-94	188-361-TAB

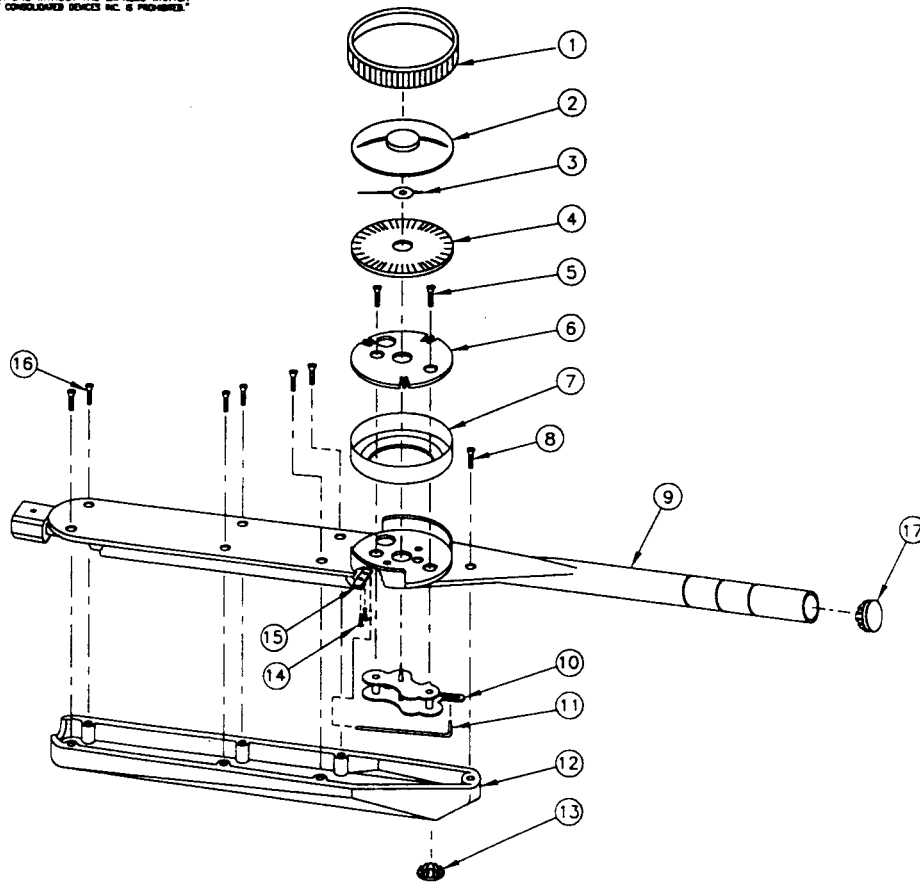
TAB No.	ITEM 9	SCALE	RANGE	CUSTOMER
1	48-308-10	88-200-SS	175 FT. LB. 240 Nm	BRITTOOL

1003 LOFH
 1753 LOEH
 2503 LOFH

(TORSION) PAINTED

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	MODEL NO. FOR TAB NO. 3 WAS 1003LDFNI	10-9-97	<i>Jay</i>



17	10-103-7	BUTTON PLUG	1
16	10-235-1	SCREW SELF TAPPING-PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	265-17-1	CASE	1
11	84-11-2	PUSH ROD	1
10	10-113	MOVEMENT	1
9	Δ	HANDLE CHANNEL BEAM & GUARD ASSEMBLY	1
8	10-235-4	SCREW, SELF TAPPING - REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	Δ	SCALE	1
3	48-18-2	POINTER	1
2	48-132	MEMORY POINTER ASSEMBLY	1
1	48-84	BEZEL	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES :1/32 :.01 :1/2° :XXX:.005		CONSOLIDATED DEVICES, INC. City of Industry, California	
		EXPLODED ILLUSTRATION DIAL WRENCH (MEMORY) 0-240 Nm INTERCHANGEABLE DRIVE 0-350 Nm 0-100 FT.LB.	
MATERIAL			
FRESH			
DRAWN	A.M.V.	SCALE NONE	DRAWING NO.
APPROVED	<i>Jay</i>	DATE 06-05-96	264-172-TAB

3	48-108-64	88-232-6	0-100 FT.LB.	CDI 100LDFNI
2	48-108-63	88-210-57	0-350 Nm	HOFFMANN 85 581 Gr.35
1	48-108-62	88-211-57	0-240 Nm	HOFFMANN 85 581 Gr.24
TAB NO.	Δ	Δ SCALE	RANGE	CUSTOMER

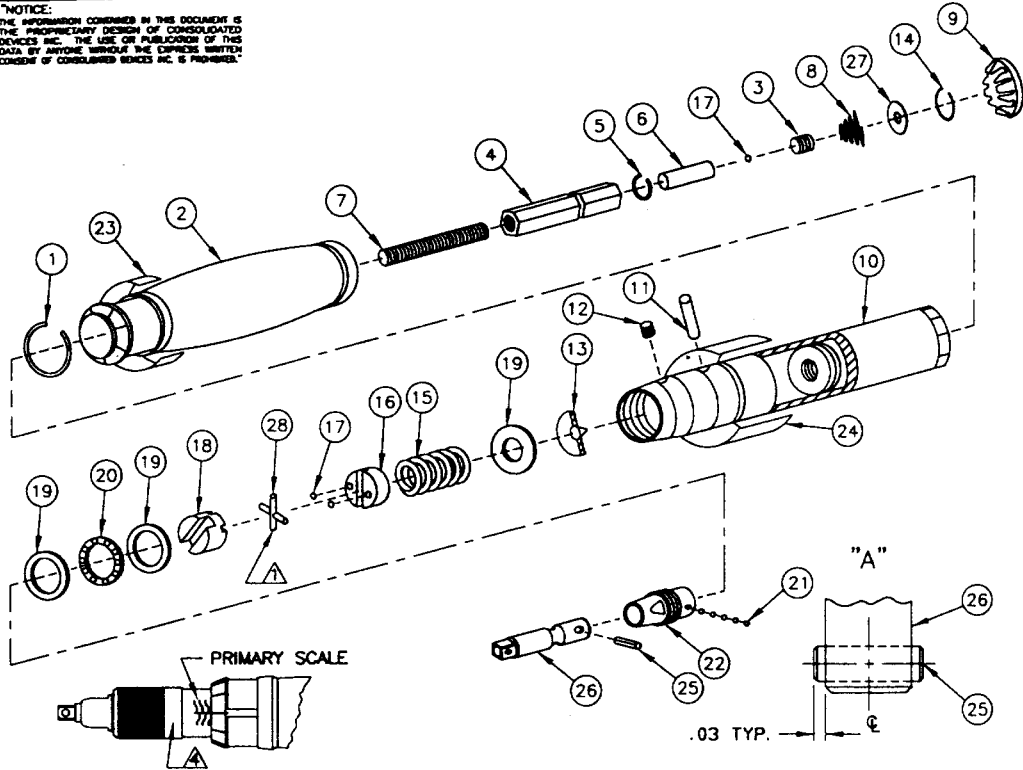
NOTES:

NOTE: UNCONTROLLED COPY

250LDFNI 100LDFNI
175LDFNI

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 CONSENT OF CONSOLIDATED DEVICES INC. IS PROHIBITED.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	Q	OMIT TAB NO. 1, REMOVE 100 IN.OZ. FROM TITLE	5-5-88	<i>Joy</i>



29			
28	275-110	PIN NEEDLE ROLLER	2
27	275-226	WASHER, SPRING RETAINER	1
26	275-64	SHAFT 1/4 SQ. DRIVE ASSEMBLY	1
25	10-107-35	SPRING PIN	1
24	△	LABEL TUBE	1
23	△	LABEL HANDLE	1
22	275-22	BUSHING	1
21	10-106-2	BALL SPHERICAL	5
20	275-14	THRUST RETAINER	1
19	275-33	THRUST WASHER	3
18	275-51	CAM	1
17	10-106-6	BALL SPHERICAL	3
16	275-65	CAM, SECONDARY	1
15	△	SPRING, TORQUE	1
14	45-137	CLIP, HEX RETAINING	1
13	30-8	THRUST WASHER, PRESET	1
12	10-101-26	SOCKET SETSCREW	1
11	275-100	PIN, SECONDARY CAM	1
10	△	TUBE ASSEMBLY	1
9	10-103-3	BUTTON PLUG	1
8	275-222	SPRING, HEX RETAINER	1
7	10-101-9	SOCKET SETSCREW	1
6	45-6-3	PIN, LOCK HEX	1
5	45-2	CLIP, SPRING HEX BAR	1
4	△	BAR, HEX, INTERNAL ADJUSTING	1
3	10-101-7	SOCKET SETSCREW	1
2	275-190	HANDLE (PLASTIC)	1
1	275-85	CLIP, HANDLE	1

-5								
-4	275-13-2	275-204-2	275-41	275-213-9	275-212	10 CMKG	101SMC	CDI
-3	275-13-2	275-204-1	275-66	275-93	275-92	36 IN.LB.	361SM	CDI
-2								
-1								
TAB NO.	△ ITEM NO. 4	△ ITEM NO. 10	△ ITEM NO. 15	△ ITEM NO. 23	△ ITEM NO. 24	RANGE	MODEL NO.	CUSTOMER

△ FOR TOOLS CALIBRATED TO ±4%, MARK THE AREA ON TUBING WITH: CALIBRATED TO ±4%.
 △ AFTER ASSEMBLY ITEM 25 TO BE SYMMETRICALLY LOCATED TO ITEM 26, SEE DETAIL "A".
 △ ITEMS 3 THRU 7 MAY BE FURNISHED AS ONE COMPLETE ASSEMBLY, PART NO. 275-47-TAB.
 △ APPLY SMALL AMOUNT OF RTV SEALANT 739 (DOW CORNING) TO CONNECT ITEMS 24 TOGETHER. CURE FOR 24 HOURS.

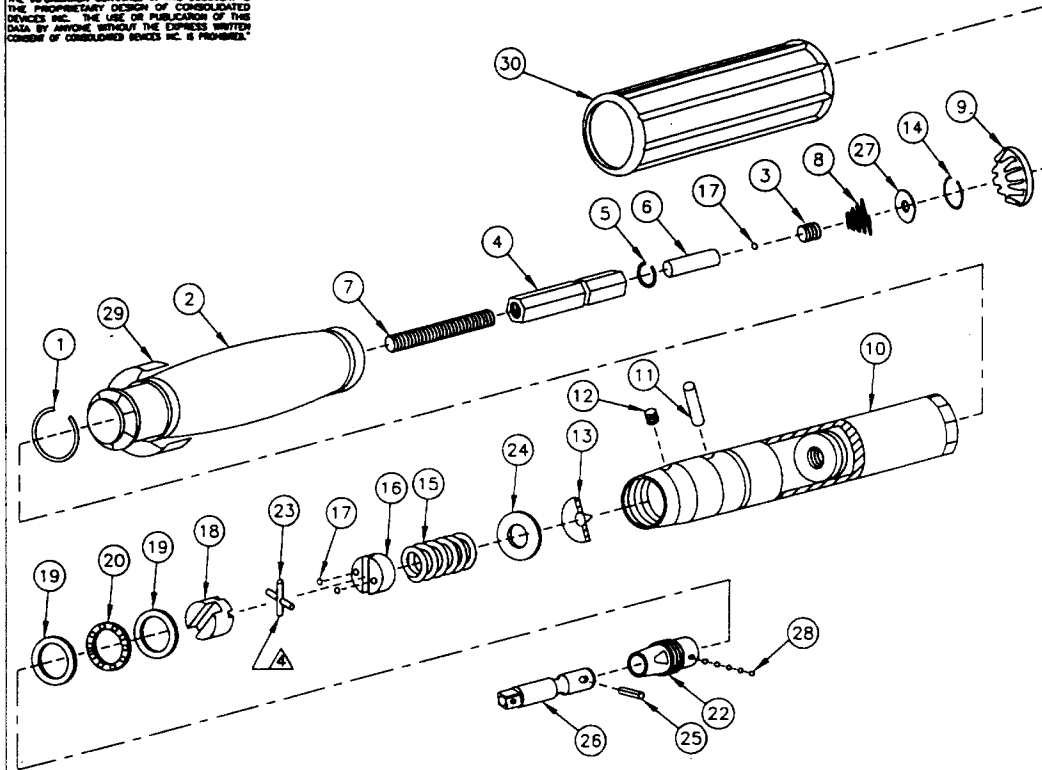
NOTES:

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/32 .001 .01 ±1/2° .0005 .005		CONSOLIDATED DEVICES, INC. City of Industry, California EXPLODED ILLUSTRATION TORQUE SCREWDRIVER, MICRO ADJ. 1/4" SQUARE DRIVE 36 IN.LB., 10 CMKG	
MATERIAL		DRAWING NO. 275-67-TAB	
FINISH		APPROVED I.V.	SCALE NONE DATE 12-15-76

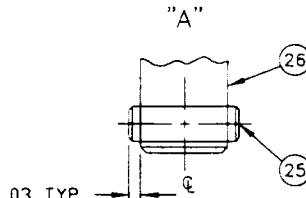
NOTE: UNCONTROLLED COPY

361 SM , 101SMC

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-4	275-236-17	275-66	275-263	50 dNm	Cod. 200.556	PALMERA
-3	275-236-16	275-41	275-262	10 dNm	Cod. 200.551	PALMERA
-2	275-236-17	275-66	275-260	50 dNm	Nº 3720.005	ACESA
-1	275-236-16	275-41	275-259	10 dNm	Nº 3720.002	ACESA
TAB NO.	ITEM NO. 10	ITEM NO. 15	ITEM NO. 29	RANGE	MODEL NO.	CUSTOMER



- ▲ APPLY SMALL AMOUNT OF RTV SEALANT 739 (DOW CORNING) TO CONNECT ITEMS 24 TOGETHER. CURE FOR 24 HOURS.
- ▲ AFTER ASSEMBLY ITEM 25 TO BE SYMMETRICALLY LOCATED TO ITEM 26, SEE DETAIL "A".
- ▲ ITEM 10 IS CLEAR ANODIZE.
- ▲ ITEMS 3 THRU 7 MAY BE FURNISHED AS ONE COMPLETE ASSEMBLY, PART NO. 275-47-2.

NOTES:

NOTE: UNCONTROLLED COPY

BY	LTR	DESCRIPTION	DATE	APPROVED
RR	G	ADDED ITEM 30 (HANDLE GRIP)	6-23-99	Jay

ITEM	PART NO.	DESCRIPTION	REQ'D
31			
30	45-277	HANDLE, GRIP	1
29	▲	LABEL, HANDLE	1
28	10-106-2	BALL SPHERICAL	5
27	275-226	WASHER SPRING RETAINER	1
26	275-64	SHAFT 1/4 SQ. DR.	1
25	10-107-35	SPRING PIN	1
24	10-104-1	WASHER, FLAT	1
23	275-110	PIN NEEDLE ROLLER	2
22	275-22	BUSHING	1
21			
20	275-14	THRUST RETAINER	1
19	275-33	THRUST WASHER	2
18	275-51	CAM	1
17	10-106-6	BALL SPHERICAL	3
16	275-65	CAM, SECONDARY	1
15	▲	SPRING, TORQUE	1
14	45-137	CLIP, HEX RETAINING	1
13	30-8	THRUST WASHER, PRESET	1
12	10-101-26	SOCKET SETSCREW	1
11	275-100	PIN, SECONDARY CAM	1
▲ 10	▲	TUBE, ROLL STAMPING	1
9	10-103-3	BUTTON PLUG	1
8	275-222	SPRING, HEX RETAINER	1
▲ 7	10-101-9	SOCKET SETSCREW	1
▲ 6	45-6-3	PIN, LOCK HEX	1
▲ 5	45-2	CLIP, SPRING HEX BAR	1
▲ 4	275-13-2	BAR, HEX, INTERNAL ADJUSTING	1
▲ 3	10-101-7	SOCKET SETSCREW	1
2	275-190	HANDLE (PLASTIC)	1
1	275-85	CLIP, HANDLE	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 :1/32 .XX ±.01 :1/2°
 .XXX ±.005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

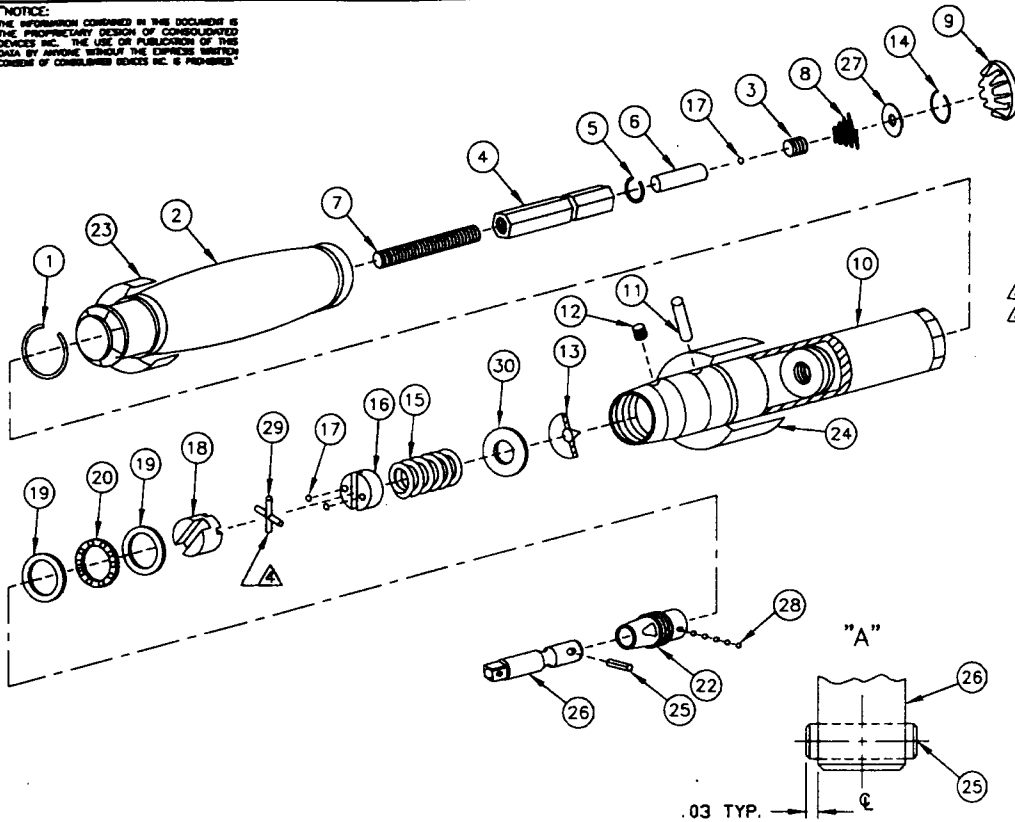
EXPLODED ILLUSTRATION
 TORQUE SCREWDRIVER, MICRO ADJ.

50 dNm	1/4" SQUARE DRIVE	501 SMC
10 dNm	ACESA	101 SMC

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	07-31-96	275-338-TAB

501 SMC, 101 SMC

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	1	RANGE WAS 0-10 CMKG & 19-125 IN.OZ.	4-29-88	Jay

31			
30	10-104-1	WASHER, FLAT	1
29	275-110	PIN NEEDLE ROLLER	2
28	10-106-2	BALL SPHERICAL	5
27	275-226	WASHER, SPRING RETAINER	1
26	275-64	SHAFT 1/4 SQ. DRIVE ASSEMBLY	1
25	10-107-35	SPRING PIN	1
24	275-43	LABEL TUBE	1
23	275-46	LABEL HANDLE MARKING	1
22	275-22	BUSHING	1
21			
20	275-14	THRUST RETAINER	1
19	275-33	THRUST WASHER	2
18	275-51	CAM	1
17	10-106-6	BALL SPHERICAL	3
16	275-65	CAM, SECONDARY	1
15	275-103	SPRING, TORQUE	1
14	45-137	CLIP, HEX RETAINING	1
13	30-8	THRUST WASHER, PRESET	1
12	10-101-26	SOCKET SETSCREW	1
11	275-100	PIN, SECONDARY CAM	1
10	275-204-2	TUBE (FINISHED)	1
9	10-103-3	BUTTON PLUG	1
8	275-222	SPRING, HEX RETAINER	1
7	10-101-9	SOCKET SETSCREW	1
6	45-6-3	PIN, LOCK HEX	1
5	45-2	CLIP, SPRING HEX BAR	1
4	275-13-2	BAR, HEX, INTERNAL ADJUSTING	1
3	10-101-7	SOCKET SETSCREW	1
2	275-190	HANDLE (PLASTIC)	1
1	275-85	CLIP, HANDLE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

- ▲ APPLY SMALL AMOUNT OF RTV SEALANT 739 (DOW CORNING) TO CONNECT ITEMS 24 TOGETHER. CURE FOR 24 HOURS.
- ▲ AFTER ASSEMBLY ITEM 25 TO BE SYMMETRICALLY LOCATED TO ITEM 26, SEE DETAIL "A".
- ▲ ITEMS 19, 20, 22, 25, 26 & 28 ASSEMBLED AS ONE COMPLETE ASSEMBLY, PART NO. 275-250.
- ▲ ITEMS 3 THRU 7 MAY BE FURNISHED AS ONE COMPLETE ASSEMBLY, PART NO. 275-47-2.

NOTES:

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGELS
±1/32 ±.01 ±1/2°
±.002 ±.005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
TORQUE SCREWDRIVER, MICRO ADJ.
1/4" SQUARE DRIVE
0-10 CMKP & 13-125 IN.OZ.

DRAWN <i>all</i>	SCALE NONE	DRAWING NO.
APPROVED <i>Jay</i>	DATE 09-05-91	275-243

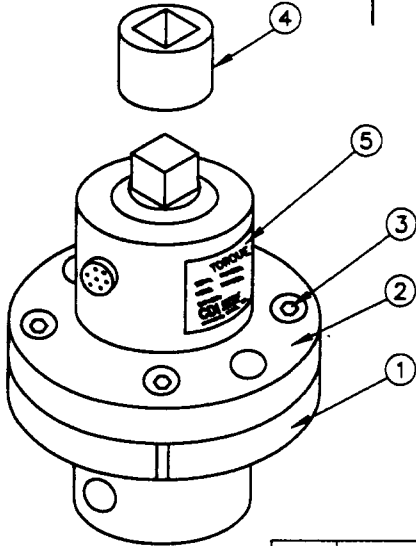
NOTE: UNCONTROLLED COPY

101 SMCH

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BY	LTR	DESCRIPTION	DATE	APPROVED
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7			
6			
5	342-24-69	LABEL, TRANSDUCER	1
4	65-26-3	SOCKET ADAPTER	1
3	10-168-24	SOCKET HEAD CAP SCREW 3/8-16, 1/2" LONG	4
2	342-10-0	TRANSDUCER 125 FT.LB.	1
1	2000-225-4	SMALL TRANSDUCER ADAPTER	1
ITEM	PART NO.	DESCRIPTION	REQ'D

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
± 1/32	.XX ± .01	± 1/2°
	.XXX ± .005	

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

TORQUE TRANSDUCER KIT
(USED ON LOADERS)

1253-F-TIPL 125 FT.LB. CDI

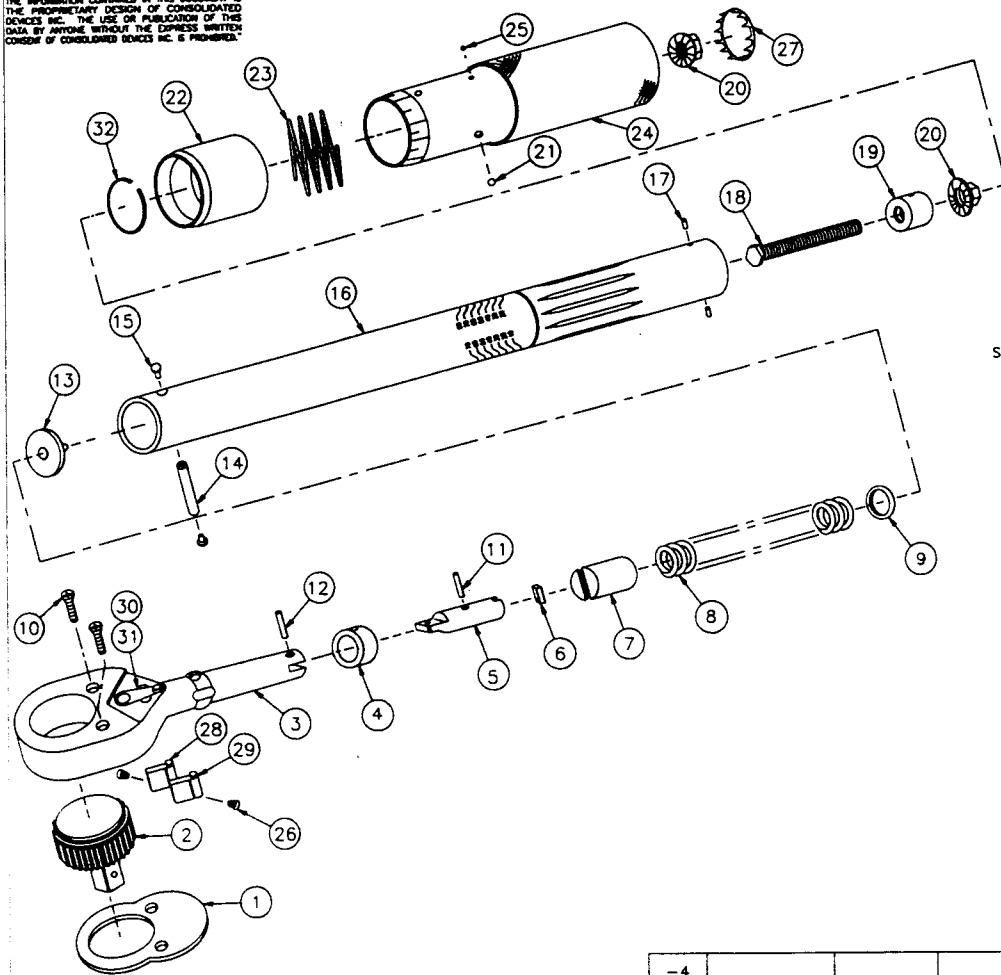
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>Jay</i>	DATE	3-2-88	342-10-02L

- 2.** LABEL MADE IN CDI.
- 1.** CLEAN SURFACE ITEM 2 WITH FREON BEFORE APPLYING LABEL (ITEM 5)

NOTES:

NOTE: UNCONTROLLED COPY

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 CONSENT OF CONSOLIDATED DEVICES IS PROHIBITED.



SEE TAB

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	E	ADD ITEM 32 & REDRAWN	12-5-96	Jay

32	47-238-1	SPRING RING	1
31		REVERSING LEVER	1
30		REVERSING CAM	1
29		DOG, LEFT	1
28		DOG, RIGHT	1
27	10-103-3	BUTTON PLUG	1
26		SPRING	2
25	10-106-1	BALL (3/32)	1
24	47-448-3	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22		LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-4	ADJUSTING SCREW (2.25 LONG)	1
17	47-240	PIN	2
16	96-206-5	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10		SCREW	2
9	10-104-1	WASHER, FLAT	A/R
8	96-245	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-64	SECONDARY ARM	1
4	61-60	FULCRUM	1
3		RATCHET BODY	1
2		RATCHET WHEEL	1
1		PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .XX ±.01 ±1/2°
 .XXX ±.005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. RATCHET
 1400 kg.cm

DRAWN	sel	SCALE	NONE	DRAWING NO.	46-532-TAB
APPROVED	Jay	DATE	04-06-95		

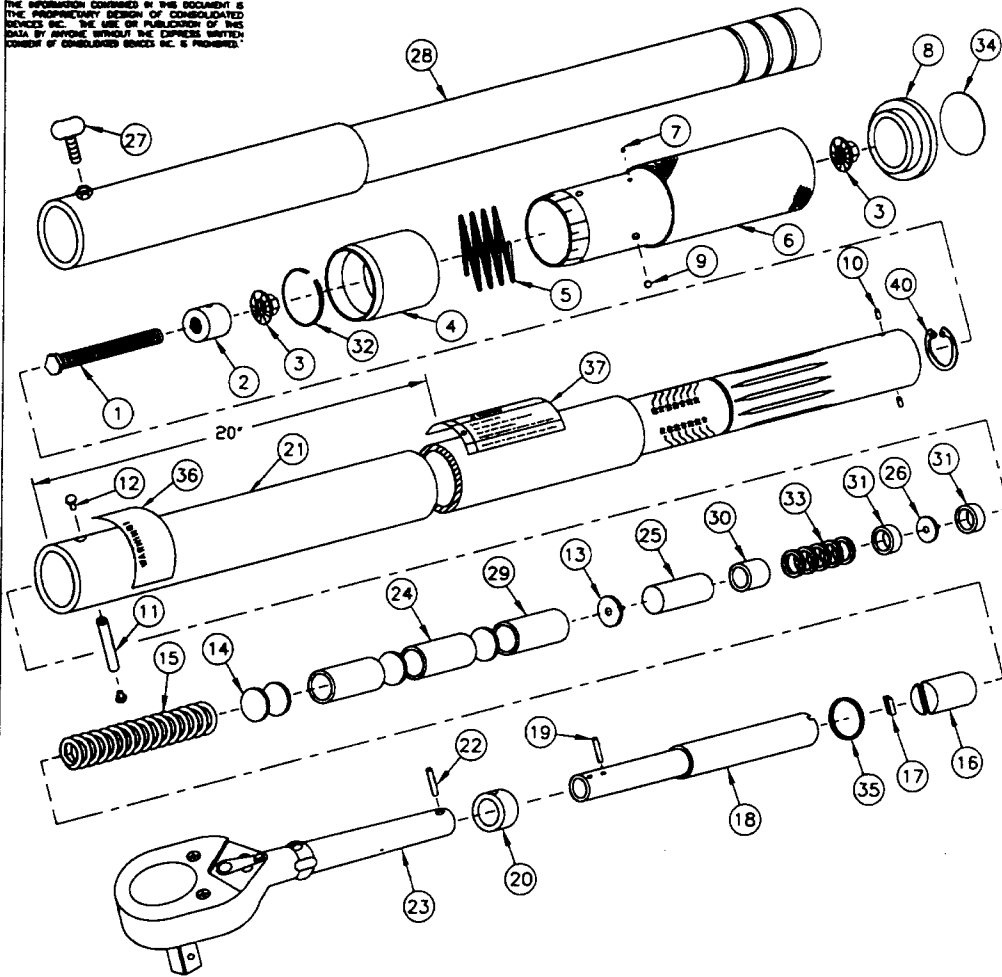
-4				
-3				
-2	47-446-11	CDI	14003KMRMH	
-1	47-280-12	OLY	1400QLM	
TAB NO.	ITEM NO. 22	CUSTOMER	MODEL NO.	

- △ FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE DWG. 61-32.
 △ PURCHASED AS ASSEMBLY 96-500-8.
 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
 NOTES:

NOTE: UNCONTROLLED COPY

14003KMRMH

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- ▲ ITEM 38 TO BE PLACED ON THE COVER OF THE METAL BOX NEXT TO THE HANDLE.
- ▲ ONE LABEL TO BE PLACED ON THE TOOL AND ONE ON THE INSIDE COVER OF THE METAL BOX.
- ▲ USE ITEM 34 FOR CDI ONLY.
- ▲ FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

5			
4			
3			
2			
1	47-646-21	CDI	15005NMRMH
TAB NO.	PART NO.	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	D	REVISIONS: 1. 10-12-96 2. 01-12-96	2-18-97	Joy

ITEM	PART NO.	DESCRIPTION	REQ'D
40	10-238-2	RETAINING RING	1
39	10-117-7	METAL BOX ASSEMBLY (NOT SHOWN)	1
▲ 38	15-67	LABEL WARNING - BOX (NOT SHOWN)	1
▲ 37	15-66	LABEL WARNING - EXTENSION	2
36	15-65	LABEL, WARNING	1
35	10-241-3	O-RING	1
▲ 34	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
33	10-104-1	WASHER, FLAT	5
32	47-238-1	SPRING RING	1
31	95-28-4	SPACER (.35 LONG)	2
30	95-28-1	SPACER (1.38 LONG)	1
29	216-24	SPACER (1.60 LONG)	1
28	216-186-01	EXTENSION	1
27	10-155	WING BOLT	1
26	30-8	WASHER, THRUST	1
25	216-41	SPACER (3.60 LONG)	1
24	215-20	SPACER ((3.09 LONG)	2
23	216-500-2	RATCHET BODY	1
22	215-104	PIN, ROLLER	1
21	216-13-8	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-4	SECONDARY ARM	1
▲ 17	45-253-3	PAWL	1
16	215-32-1	CAM	1
15	215-186	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	4
13	85-10-2	WASHER, THRUST	1
12	85-38	RIVET, PIVOT PIN	2
11	85-37	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	96-103-3	END PLUG SNAP-ON, CDI	1
7	10-106-1	BALL (5/32)	1
6	47-348-9	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-249	SPRING, LOCK RING	1
4	▲	LOCK RING	1
3	47-245-1	HEX. FLANGE NUT	2
2	47-241	INSERT TUBE	1
1	47-342-5	ADJUSTING SCREW (2.25 LONG)	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .001 .015 ±1/2°
 .0002 .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1" DR. RATCHET
 1500 Nm & 1069 FT.LB.

MATERIAL

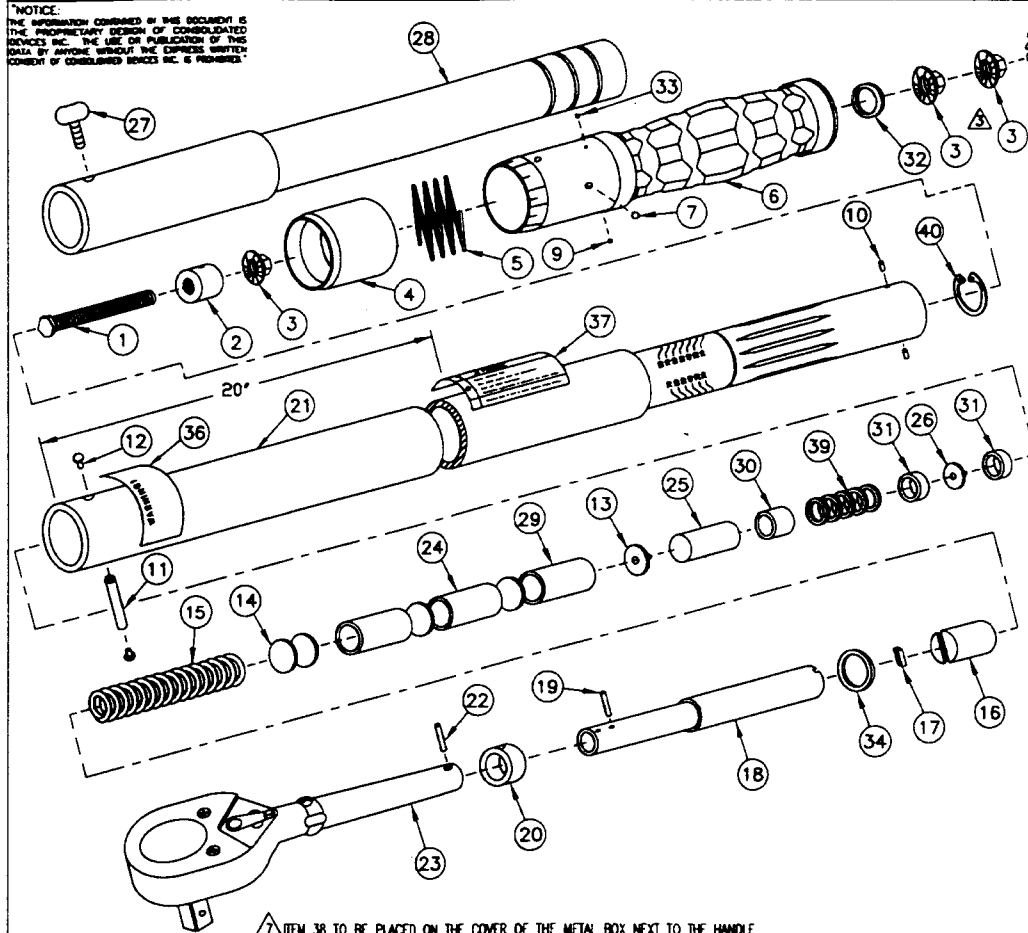
 FINISH

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Joy	DATE	01-12-96	216-633-TAB

NOTE: UNCONTROLLED COPY

15005 NMRMH

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	H	ITEM 28 WAS 216-186-0	1-21-00	Jay

40	10-238-2	RETAINING RING	1
39	10-104-1	WASHER, FLAT	5
38	15-67	LABEL, WARNING - BOX (NOT SHOWN)	1
37	15-66	LABEL, WARNING - EXTENSION	2
36	15-65	LABEL, WARNING	1
35	10-117-8	METAL BOX ASSEMBLY (NOT SHOWN)	1
34	10-241-3	O-RING	1
33	10-106-2	BALL (.1094 DIA.)	1
32	10-304	WASHER	1
31	95-28-4	SPACER (.35 LONG)	2
30	95-28-1	SPACER (1.38 LONG)	1
29	216-24	SPACER (1.60 LONG)	1
28	216-186-01	HANDLE EXTENSION ASSEMBLY	1
27	10-155	WING BOLT	1
26	30-6	WASHER, THRUST	1
25	216-41	SPACER (3.80 LONG)	1
24	215-20	SPACER (3.09 LONG)	2
23	216-500-2	RATCHET BODY ASSEMBLY	1
22	215-104	PIN, ROLLER	1
21	▲	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-81-2	SECONDARY ARM	1
17	45-253-3	PAWN	1
16	215-32-1	CAM	1
15	215-186	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	4
13	85-10-2	WASHER, THRUST	1
12	85-38	RIVET, PIVOT PIN	2
11	85-37	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	10-103-3	BUTTON PLUG	1
7	10-106-5	BALL (5/32)	1
6	47-344-15	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-249	SPRING, LOCK RING	1
4	▲	LOCK RING	1
3	47-245-1	HEX FLANGE NUT	3
2	47-241	INSERT TUBE	1
1	47-342-2	ADJUSTING SCREW (2.75 LONG)	1

- ▲ ITEM 38 TO BE PLACED ON THE COVER OF THE METAL BOX NEXT TO THE HANDLE.
- ▲ ONE LABEL TO BE PLACED ON THE TOOL AND ONE ON THE INSIDE COVER OF THE METAL BOX.

- 5. CALIBRATE WRENCH ±.3% IN CW DIRECTION ONLY.
- 4. TIGHTEN ITEM 3 TO 75 IN.LB. TORQUE.
- ▲ ITEM 3 ASSEMBLY AS SHOWN.
- ▲ IF ITEM 15 IS MADE IN CDX BY CUTTING SPRING 215-86 FOR ITEM 18 USE P/N 216-61-3.
- ▲ FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

-4				
-3				
-2	47-680-21	216-13-8	OLY	1500QLN
-1	47-276-21	216-13-8	EUR/ACESA	Nº 3700.024
TAB NO.	▲ ITEM NO. 4	▲ ITEM NO. 21	CUSTOMER	MODEL NO.

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 1/32 .001 2.01 1/2°
 .005 .005 .005

MATERIAL	FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

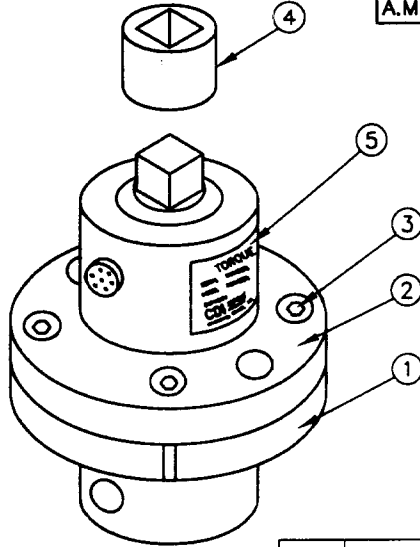
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1" DR. RATCHET
1500 Nm & 1069 FT.LB. - PLASTIC HANDLE

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	07-31-96	216-733-TAB

NOTE: UNCONTROLLED COPY

REF. CDL 15005NMRPH

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ITEM 2 WAS 342-17-0	3-19-98	<i>Jay</i>

7				
6				
\triangle 2	5	342-24-74	LABEL, TRANSDUCER	1
	4	342-40	SOCKET ADAPTER	1
	3	10-168-19	SOCKET HEAD CAP SCREW 1/4-20, 1/2" LONG	4
	2	S/342-5-0	TRANSDUCER 150 IN.LB.	1
	1	2000-225-5	SMALL TRANSDUCER ADAPTER	1
ITEM	PART NO.	DESCRIPTION	REQ'D	

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
$\pm 1/32$.XX $\pm .01$	$\pm 1/2^\circ$
	.XXX2 .005	

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

TORQUE TRANSDUCER KIT
 (USED ON LOADERS)

1501-I-TTPL

150 IN.LB.

CDI

DRAWN	A.M.V.	SCALE	NONE
APPROVED	<i>Jay</i>	DATE	03-02-98

DRAWING NO.

342-65-02L

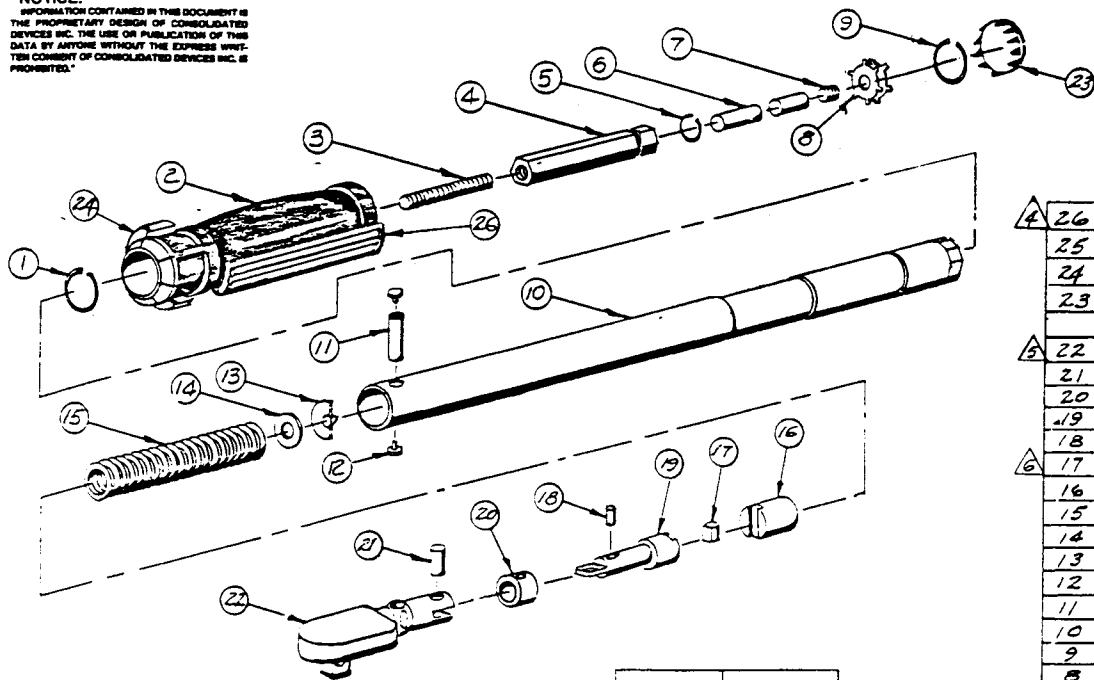
\triangle 2. LABEL MADE IN CDI.

- CLEAN SURFACE ITEM 2 WITH FREON BEFORE APPLYING LABEL (ITEM 5)

NOTES:

NOTE: UNCONTROLLED COPY

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2502M	61-3-4
2002M	61-3-1
2001M	61-3-1
1502M	61-3-3
1501M	61-3-3
FOR	ITEM 10
	PART NO.

- ⚠ FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
- ⚠ ITEM 22, FOR 3/8 DR. USE 60-240.
- ⚠ ITEM 26, HANDLE GRIP FURNISHED IF REQUESTED.
- ⚠ SEE 60 SERIES PARTS LIST TO DETERMINE A PART NO. FOR HANDLE LABEL (ITEM 24)
- ⚠ ITEM 2, FOR RED HANDLE, USE 46-1-2.
- 1. ITEMS 3 THRU 7 MAY BE FURNISHED AS ASSY.
 - A. HEX. ASSY. (45-944) WITH ITEM B (NO. 45-6-1) FOR 150"LB.
 - B. HEX. ASSY. (45-942) WITH ITEM C (NO. 45-6-2) FOR 200"LB. & 200 CMKG.
 - C. HEX. ASSY. (45-942) WITH ITEM C (NO. 45-6-2) FOR 250"LB.

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SG	A	CHANGED NOTE ⚠ C.	8-12-93	JG

⚠	26	45-277	HANDLE GRIP	1
	25	45-149	SEALANT (FUSIBLE ALLOY)	AR
	24	13	LABEL, HANDLE	1
	23	10-103-3	BUTTON PLUG, HANDLE	1
⚠	22	60-237	ARM & DRIVE ASSY. (1/4)	1
	21	45-250	PIN, ROLLER	1
	20	61-60	FULCRUM	1
	19	61-62	SECONDARY ARM	1
	18	10-102-24	PIN, FULCRUM	1
⚠	17	45-253-1	PAWL	1
	16	45-251	CAM	1
	15	60-64	SPRING, TORQUE	1
	14	10-104-1	WASHER, FLAT	AIR
	13	30-8	WASHER, THRUST	1
	12	45-92	RIVET, PIVOT PIN	2
	11	45-91	PIN, PIVOT	1
	10	SEE BLOCK	TUBE ASSY. (ROLL STAMP)	1
	9	45-137	CLIP, HEX RETAINER	1
	8	45-75	WASHER, HEX LOCK	2
	7	10-101-19	SOC. SET SCREW, HEX.	1
	6	45-6-1	PIN, HEX LOCK	1
	5	45-2	CLIP SPRING, HEX BAR	1
	4	45-4B	BAR, HEX. INTERNAL ADJUSTING	1
	3	10-101-1	SOC. SET SCREW, HEX BAR	1
2	2	46-1-1	HANDLE PLASTIC	1
	1	45-74	CLIP, HANDLE	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 ± .01 ± 1/2°
 XXX = .005

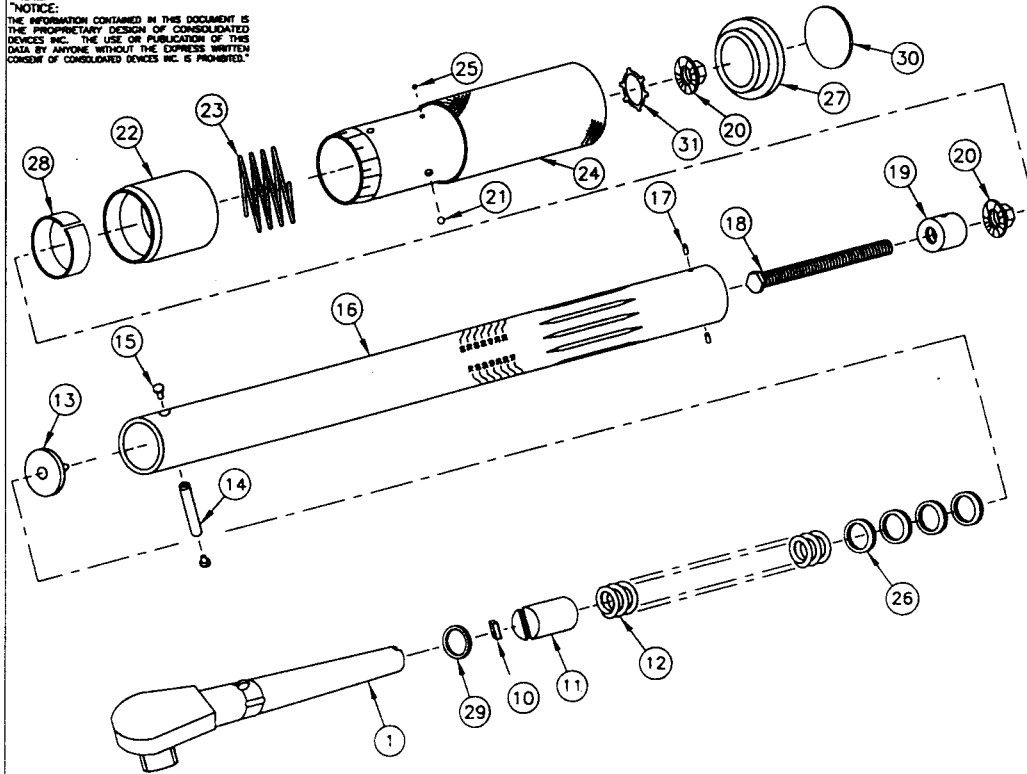
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICR. ADJ. WRENCH 1/4 & 3/8 DR. PLAIN HEAD

SER 61

DRAWN	Z.J.S.	SCALE		DRAWING NO.	61-131-2
APPROVED		DATE			

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	D	ITEM 10 WAS 50-18, ITEM 16 WAS 61-250-2, ITEM 24 WAS 61-248-2, ITEM 27 WAS 10-103-2, ADD ITEMS 28 THRU 31, NOTES 1 & 2	10-13-98	Jay

31	61-237	RETAINING RING-SELF LOCKING	1
30	10-203-1	CDI END PLUG (SMALL) ONLY FOR CDI	1
29	10-241-2	O-RING	1
28	47-338-2	NYLON BUSHING	1
27	96-103-2	END PLUG	1
26	10-104-2	WASHER, FLAT	4
25	10-106-1	BALL 3/32	1
24	61-448-2	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-1	ADJUSTING SCREW (2.00 LONG)	1
17	10-106-5	BALL	2
16	61-250-22	TUBE, (ROLL STAMP)	1
15	61-263	RMET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-265	SPRING, TORQUE	1
11	50-16	CAM	1
10	61-18-0	PIVOT BLOCK	1
9			
8			
7			
6	61-100-4	ARM & DRIVE WELDMENT	1
5			
4			
3			
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGELS
 : 1/32 .01 : 1/2°
 .0005 .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO ADJ. WRENCH 1/4 DR. PLAIN
 150 IN.LB.

DRAWN	sel	SCALE	NONE	DRAWING NO.	61-338-TAB
APPROVED	Jay	DATE	05-24-93		

▲ PRODUCT SHOULD BE MADE PER REV. "D" AFTER
 REV. "C" HAS BEEN PHASED OUT.

▲ USE ITEM 30 FOR CDI ONLY.

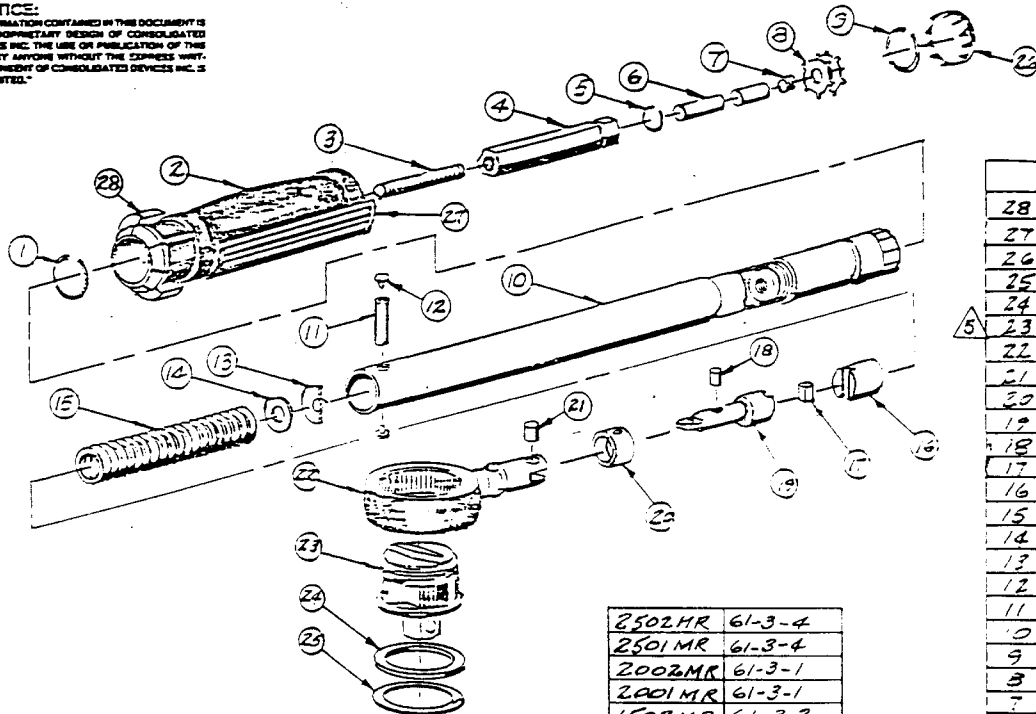
NOTES:

-6			
-5			
-4			
-3			
▲ -2	61-246-3	CDI	1501MMH
-1	SEE SEPARATE DWG	GSA	1501MMH
TAB NO.	▲ ITEM NO. 22	CUSTOMER	MODEL NO.

NOTE: UNCONTROLLED COPY

1501 MMH

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2502MR	61-3-4
2501MR	61-3-4
2002MR	61-3-1
2001MR	61-3-1
1502MR	61-3-2
1501MR	61-3-2
FOR	ITEM 10 PART NO.

- ① ITEM 7 FOR 200CMKG. USE 46-253-1
- ② DO NOT USE ITEM 8 FOR 250'LB.
- ③ HANDLE GRIP, ITEM 22 TO BE FURNISHED IF REQUESTED.
- ④ FOR 3/8 DRIVE, USE PART NO. 60-259
- ⑤ FOR WRENCHES TO BE RECALIBRATED, SEE 46-253-TAB.
- ⑥ ITEMS 3 THRU 7 MAY BE FURNISHED AS COMPLETE ASSY.
 A - HEX. ASSY. (PART NO. 45-94-1) WITH ITEM 6 (PART NO. 45-64) FOR 150'LB.
 B - HEX. ASSY. (PART NO. 45-94-2) WITH ITEM 6 (PART NO. 45-6-2) FOR 300'LB & 300 CMKG.
 C - HEX. ASSY. (PART NO. 45-94-2) WITH ITEM 6 PART NOS. 45-6-2 FOR 250'LB.
- ⑦ SEE 60 SERIES PARTS LIST TO DETERMINE PART NO. FOR A PARTICULAR HANDLE LABEL (ITEM 28)
- ⑧ ITEM NO. 2, HANDLE (RED) PART NO. 46-1-2.

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZIS	B	REVISED, ADD BLOCK FOR MODEL & ITEM 10	3-16-93	Zoy
SJ	C	CHANGED NOTE A C.	8-12-93	Zoy

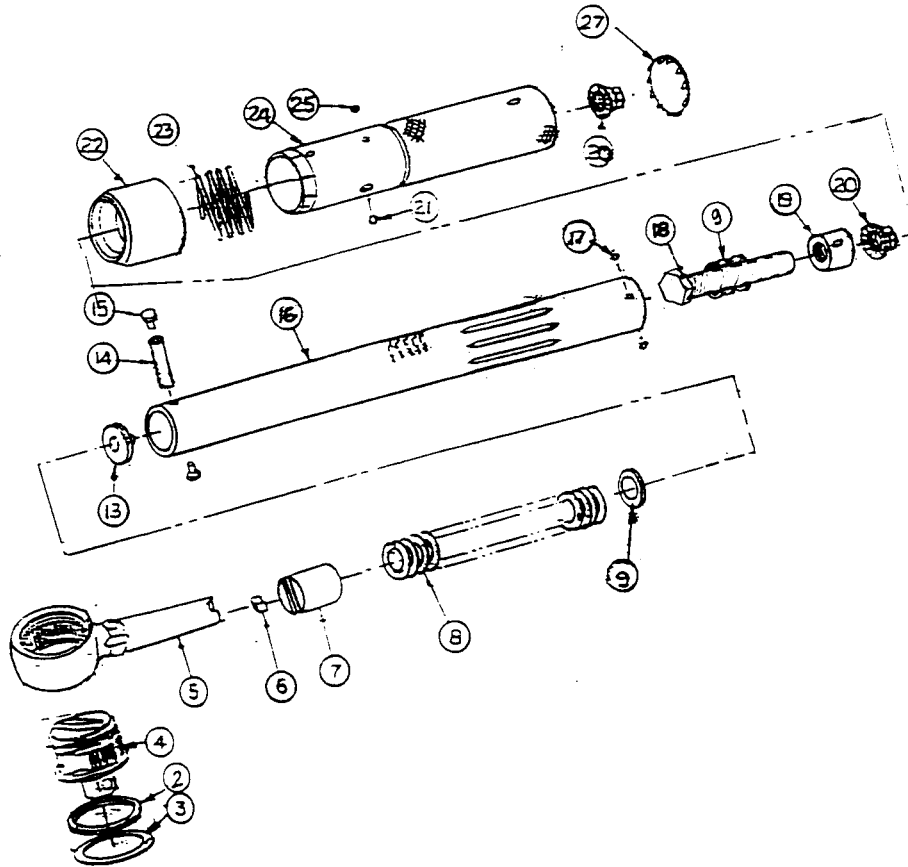
28	2	LABEL, HANDLE		1
27	45-217	HANDLE GRIP		1
26	10-103-3	BUTTON PLUG, HANDLE		1
25	60-253	RETAINING RING		1
24	60-254	SPACER RING		1
23	60-257	QUITZ RATCHET (1/4 DR.)		1
22	60-259	RATCHET BODY		1
21	45-250	PIN, ROLLER		1
20	61-60	FULCRUM		1
19	61-62	SECONDARY ARM		1
18	10-102-24	PIN, FULCRUM		1
17	46-253-1	PAW		1
16	45-251	CAM		1
15	60-64	SPRING, TORQUE		1
14	10-104-1	WASHER, FLAT		2/R
13	30-8	WASHER, THRU		1
12	45-92	RIVET, PIVOT PIN		2
11	45-91	PIN, PIVOT		1
10	SEE BLOCK	TUBE ASSY. (COLL. STAMP)		1
9	45-137	CLIP, HEX. RETAINER		1
8	45-75	WASHER, HEX LOCK		2
7	10-101-19	SOC. SET SCREW, HEX 3/32		1
6	A	PIN, LOCK HEX BAR		1
5	45-2	CLIP, SPRING HEX BAR		1
4	45-48	BAR, HEX INTERNAL ADJUSTING		1
3	10-101-1	SOC. SET SCREW, HEX BAR		1
2	46-1-1	HANDLE, PLASTIC		1
1	45-74	CLIP, HANDLE		1

CODE IDENT	PART NO.	DESCRIPTION	RECD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES .001 .005 .01 .5° .001 .005 .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH, 1/4" DR. RATCHET SER. 61			
DRAWN Z.S.		SCALE NONE	DRAWING NO.
APPROVED Zoy		DATE 3-16-93	61-132-2

NOTE: UNCONTROLLED COPY

2502MR, 2501MR, 2002MR, 2001MR, 1502MR, 1501MR

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 PROHIBITED."



REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
JK	A	ITEM 8 WAS 61-260, ITEM 5 WAS 61-265	4-6-92	JK
A.M.V.	B	ITEM 18 WAS 61-242-2	03-24-95	JK
A.M.V.	C	ITEM 9 WAS 10-104 & ITEM 15 WAS 61-261	3-29-95	JK
A.M.V.	D	ITEM 27 WAS 10-103-1	8-18-95	JK
A.M.V.	E	ITEM 18 WAS 61-142-3, ITEM 9 WAS REQ'D. AR	3-13-96	JK

27	10-103-2	BUTTON PLUG	1
25	10-106-1	BALL 3/32	1
24	61-248-2	HANDLE ASS'Y.	1
23	61-249	SPRING LOCK RING	1
22	61-246-4	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX. FLANGE NUT	2
19	61-241	INSERT TUBE	1
18	61-142-1	ADJUSTING SCREW	1
17	10-106-5	BALL	2
16	61-250-2	TUBE, (ROLL STAMP)	1
15	61-263	RIVET PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
9	10-104-2	WASHER, FLAT	4
8	61-265	SPRING, TORQUE	1
7	50-16	CAM	1
6	50-18	PAWL	1
5	61-101	RATCHET BODY	1
4	60-257	GUTS, RATCHET (1/4)	1
3	60-263	RETAINER RING, RATCHET	1
2	60-264	SPACER RING	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
------------	----------	-------------	------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .01 = 1'

CONSOLIDATED DEVICES, INC.
 City of Industry, California

MATERIAL

EXPLODED ILLUSTRATION
 MICR. ADJ. WRENCH 1/4 DR.

ROUND HEAD

FINISH

SER. 61

DRAWN *JK*

SCALE -

DRAWING NO.

APPROVED *JK*

DATE 1-3-92

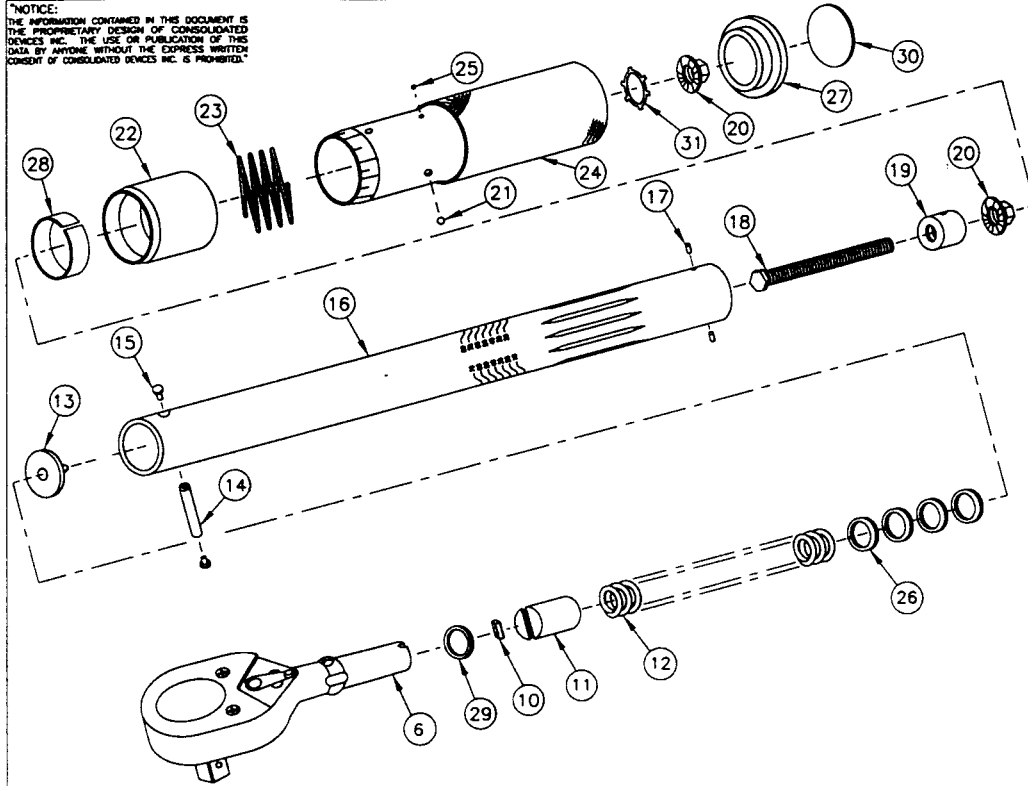
61-232-2

1501 MRMH

10-103-2

NOTE: UNCONTROLLED COPY

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- △ PRODUCT SHOULD BE MADE PER REV. "L" AFTER REV. "K" HAS BEEN PHASED OUT.
 - △ USE ITEM 30 FOR CDI ONLY.
 - △ IF 61-100-80 NOT AVAILABLE 61-115-0 CAN BE USED AS TEMPORARY REPLACEMENT.
- NOTES:

-7				
-6				
-5	61-946-4	61-100-8	MOUNTZ	MTW 150i
-4	61-258-4	61-100-8	V. BELKNAP	VB 1501MRMH
△ -3	61-246-4	61-100-8	CDI	1501MRMH-OR
-2	61-274-1	61-100-8	WRIGHT TOOL	2477
△ -1	61-246-4	61-100-80	CDI	1501MRMH
TAB NO.	△ ITEM NO. 22	△ ITEM NO. 6	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	M	ITEM 27 WAS S/96-103-2	9-25-98	Joy

31	61-237	RETAINING RING-SELF LOCKING	1
△ 30	10-203-1	CDI END PLUG (SMALL) ONLY FOR CDI	1
29	10-241-2	O-RING	1
△ 28	47-338-2	NYLON BUSHING	1
△ 27	96-103-2	END PLUG-SMALL	1
26	10-104-2	WASHER, FLAT	4
25	10-106-1	BALL 3/32	1
△ 24	61-448-2	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-1	ADJUSTING SCREW (2.00 LONG)	1
17	10-106-5	BALL	2
△ 16	61-250-22	TUBE, (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-265	SPRING, TORQUE	1
11	50-16	CAM	1
10	61-18-0	PIVOT BLOCK	1
9			
8			
7			
6	△	RATCHET BODY ASSEMBLY	1
5			
4			
3			
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGELS : 1/32 .001 .01 : 1/2"			
MATERIAL			
FINISH			
DRAWING NO.			
APPROVED			
DATE			
SCALE			
NONE			
DRAWING NO.			
81-333-TAB			

CONSOLIDATED DEVICES, INC.
City of Industry, California

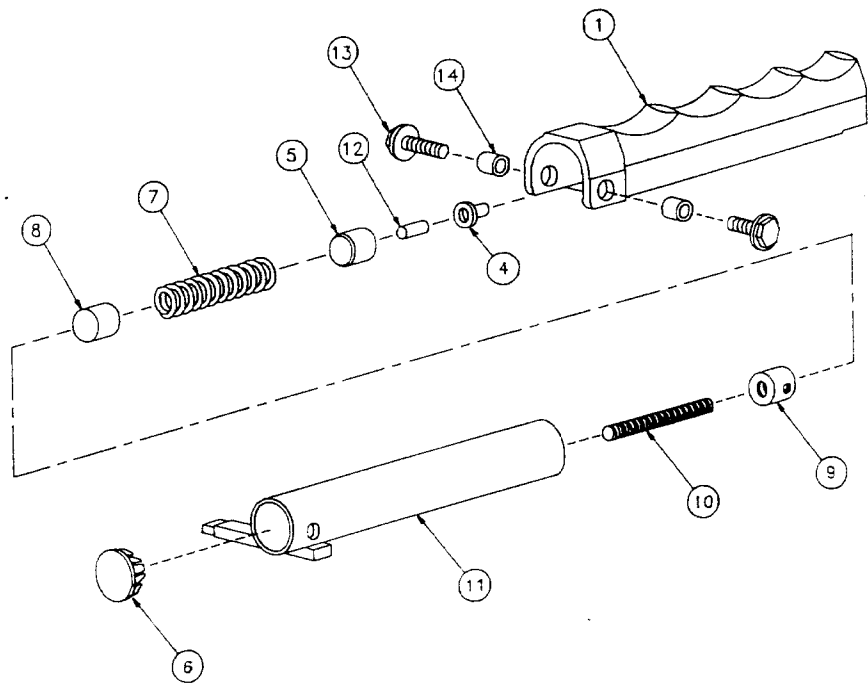
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1/4 DR. RATCHET
150 IN.LB. RATCHET BODY-OVAL

NOTE: UNCONTROLLED COPY

1501 MRMH
1501 MRMH-QR

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BY	LTR	DESCRIPTION	DATE	APPROVED
229	F	REDRAWN FOR CLARITY - NO CHANGE	1-12-96	Joy



14	25-57	SLEEVE	2
13	10-202-1	HEX WASHER, HEAD SCREW	2
12	25-6-2	PAWL	1
11	△	TUBE & DRIVE ASSEMBLY	1
10	10-101-10	SETSCREW, SOCKET	1
9	25-15	PLUG	1
8	25-8	WASHER, THRUST	1
7	25-13	SPRING, TORQUE	1
6	10-103-1	BUTTON PLUG	1
5	25-4	CAM	1
4	25-5	SUPPORT, PAWL	1
3			
2			
1	△	PLATE & HANDLE ASSEMBLY	1
ITEM	PART NO.	DESCRIPTION	REQ'D

- △ USE PART No. 25-31-1 FOR 1/4 SQ. DRIVE.
- USE PART No. 24-34-1 FOR 1/4 HEX DRIVE.
- USE PART No. 25-45-1 FOR 5/16 HEX DRIVE.
- △ USE PART No. 25-52-1 FOR GREY COLOR.
- USE PART No. 25-52-2 FOR BLACK COLOR.
- USE PART No. 25-52-3 FOR BLUE COLOR.
- USE PART No. 25-52-4 FOR RED COLOR.
- USE PART No. 25-52-5 FOR MEDIUM GREEN COLOR.

NOTES:

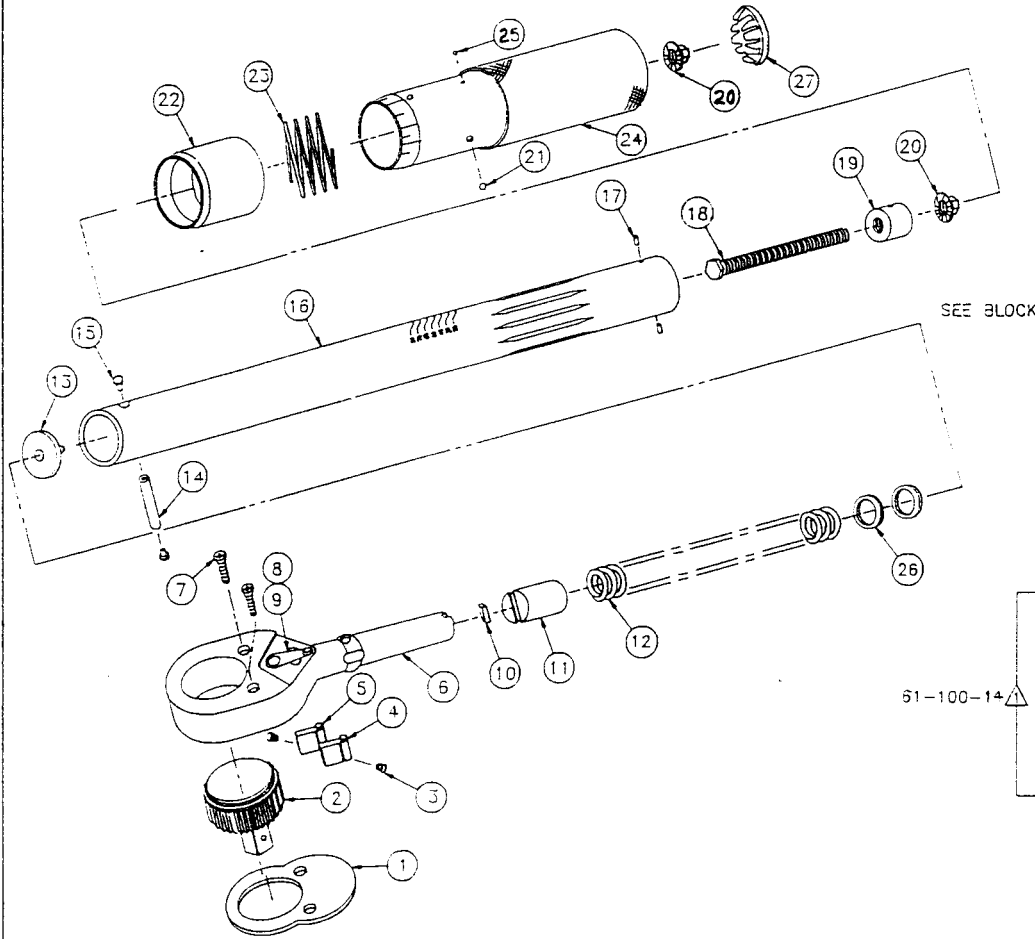
NOTE: UNCONTROLLED COPY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/32 .005 ±.01 ±1/2° ±.0001 .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION TORKY-PRESET 2-150 IN.LB., 2-170 CMKG & 2-170 dNm	
FINISH	DRINK	SCALE	DRAWING NO.
	229	NONE	25-50
APPROVED	DATE		
Joy	11-21-77		

1501TPA

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	61-100-14 WAS 61-100-13	10-12-95	207



27	10-103-1	BUTTON PLUG	1
26	10-104-2	WASHER, FLAT	AR
25	10-106-1	BALL 3/32	1
24	61-348-2	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-3	ADJUSTING SCREW	1
17	10-106-5	BALL	2
16	61-254-2	TUBE, (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-265	SPRING, TORQUE	2
11	50-16	CAM	1
10	50-18	PAWL	2
9		REVERSING CAM	1
8		REVERSING LEVER	1
7		SCREW	2
6		RATCHET BODY	1
5		DOG-RIGHT	1
4		DOG-LEFT	1
3		SPRING	2
2		RATCHET WHEEL	1
1		PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 ±.005 ±1/2°
 ±.002 ±.005 ±1/2°

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO.ADJ.WRENCH 3/8 DR. RATCHET
 150 cm.kg

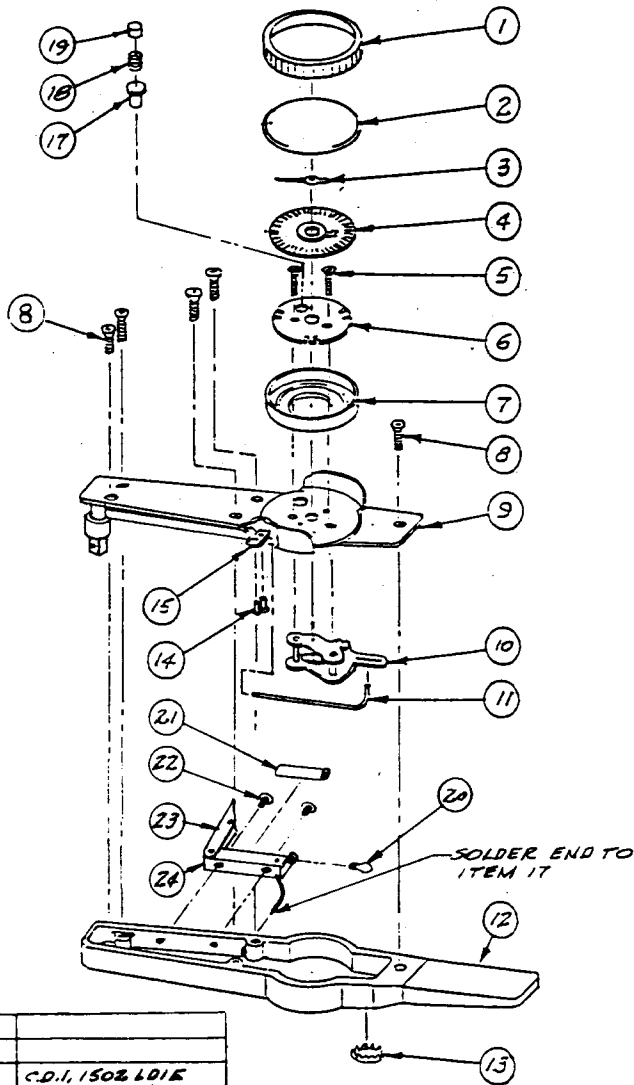
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.	61-534-TAB
APPROVED	207	DATE	10-04-95		

2		
1	61-446-11	CDI 1502 KMRMH
TAB #	ITEM 22 △	CUSTOMER

△ PURCHASED AS ASSEMBLY P/N 61-100-10 AND MODIFIED TO 61-100-14.
 NOTES:

NOTE: UNCONTROLLED COPY

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 12 WAS 230-81-2	5/4/90.	<i>[Signature]</i>
ZJS	B	ITEM 12 WAS 238-41-2	8/15/90.	<i>[Signature]</i>
ZJS	C	ITEM 8 WAS 10-111-9 ITEM 16 WAS 10-111-5	9/11/92	<i>[Signature]</i>
SG	D	REMOVE ITEM 16, ITEM 8 WAS 1 REQD	8/2/93	<i>[Signature]</i>

24	40-112	BATTERY HOUSING ASSY.	/
23	40-107	LID, BATTERY HOUSING	/
22	10-109-12	FL. HD. MACH. SCREW	2
21	40-113	BATTERY	/
20	40-98	G.E. LAMP NO. 112	/
19	40-115	PLUNGER	/
18	10-105-2	SPRING	/
17	40-102	RETAINER, SPRING	/
16			
15	40-145	CLAMP, PUSH ROD	/
14	10-110-1	SCREEN, MACH. RD. HEAD	2
13	10-103-2	BUTTON PLUG	/
12	2304280-5	CASE	/
11	80-11-3	PUSHROD	/
10	10-119	MOVEMENT	/
9	48-208-5	BEAM, PLATE & GUARD ASSY.	/
8	10-222-6	SCREEN, SELF TAPPING	5
7	48-89	RING, BEZEL MOUNTING	/
6	40-82	PLATE, DIAL MOUNTING	/
5	10-109-3	FLAT HD. MACH. SCREW	2
4	▲	SCALE ASSY.	/
3	48-18-1	POINTER	/
2	48-91	CRYSTAL	/
1	48-84	BEZEL	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES $\pm 1/32$ $\pm .01$ $\pm 1/4^\circ$ $\pm .005$			
CONSOLIDATED DEVICES, INC.		City of Industry, California	
EXPLODED ILLUSTRATION DIAL WRENCH 3/8 DRIVE (ELECTRIC)			
TORSION			
MATERIAL		DRAWN Z.J.S.	
FINISH		SCALE —	
		DRAWING NO. 238-170-TAB	
		DATE 2/7/90.	

1	48-139-2	0-150 IN. LB. 0-150 NCM	C.D.I. 150Z L01E
TAB NO.	SCALE ASSY.	RANGE	CUST.

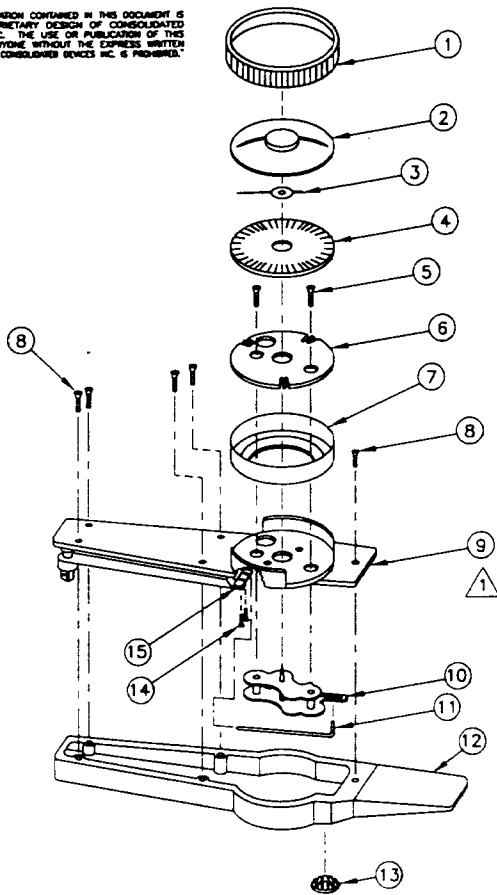
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 REORDER NO. A2041

NOTE: UNCONTROLLED COPY

150Z L01E
 EGYPTIAN TANK

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	N	ADD TAB NO. 16	8-5-97	JOS



20				18				
19				17				
18				16				
17				15	40-145	CLAMP, PUSH ROD	1	
16	SEE SEPARATE DRAWING	KTC CM00172		14	10-110-1	SCREW, MACHINED ROUND HEAD	2	
15	238-66	0-150 IN.LB. 0-18 Nm S.K 75015		13	10-103-2	BUTTON PLUG	1	
14	238-16-2	0-150 IN.LB. 0-175 CMKG MATCO TWBDI-150		12	230-240-5	CASE	1	
13	238-202-24	0-150 IN.LB. 0-18 Nm MAC TWD X150M		11	80-11-3	PUSH ROD	1	
12	238-202-62	0-150 IN.LB. 0-18 Nm V. BELKNAP VB 1502LDIN		10	10-113	MOVEMENT	1	
11	SEE SEPARATE DRAWING	G.S.A. 1502LDIN		9	48-208-5	DRIVE, PLATE & GUARD ASSEMBLY	1	
10	238-16-65	0-175 CMKG 0-150 IN.LB. C.D.I. 1502KLDIN		8	10-222-6	SCREW, SELF TAPPING - REAR	5	
9	238-202-53	0-18 Nm WRIGHT TOOL 3470		7	48-83	RING, BEZEL MOUNTING	1	
8	238-16-42	0-175 CMKG 0-150 IN.LB. CARLSON 1502KLDIN		6	40-82	PLATE, DIAL MOUNTING	1	
7	238-215-60	0-175 KGCM 0-150 IN.LB. OLY 175DB4		5	10-109-3	SCREW, MACHINE FLAT HEAD	2	
6	238-202-52	0-150 IN.LB. 0-18 Nm T & E TOOLS		4	▲	SCALE	1	
5	238-215-10	0-150 IN.LB. 0-175 CMKG C.D.I. 1502LDIN		3	48-18-1	POINTER	1	
4	SEE SEPARATE DRAWING	KTC CM00172		2	48-132	MEMORY POINTER ASSEMBLY	1	
3	238-202-39	0-150 IN.LB. 0-18 Nm O.T.C. 7380		1	48-84	BEZEL	1	
2		0-175 dNm 0-175 CMKP H. WERNER 7112B		ITEM	PART NO.	DESCRIPTION	REQ'D	
1	238-202-10	0-150 IN.LB. 0-18 Nm C.D.I. 1502LDIN		PARTS LIST				
TAB NO.	▲ SCALE	RANGE	CUSTOMER	<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES :1/32 .001 .01 :1/2°</p> <p style="text-align: center;">CONSOLIDATED DEVICES, INC. City of Industry, California</p> <p style="text-align: center;">EXPLODED ILLUSTRATION DIAL WRENCH 3/8 DR. (MEMORY) TORSION 0-150 IN.LB. 0-18 Nm</p>				
				DRAWN	Z.J.S.	SCALE	NONE	DRAWING NO.
				APPROVED	Z.K.	DATE	02-01-90	238-162-TAB

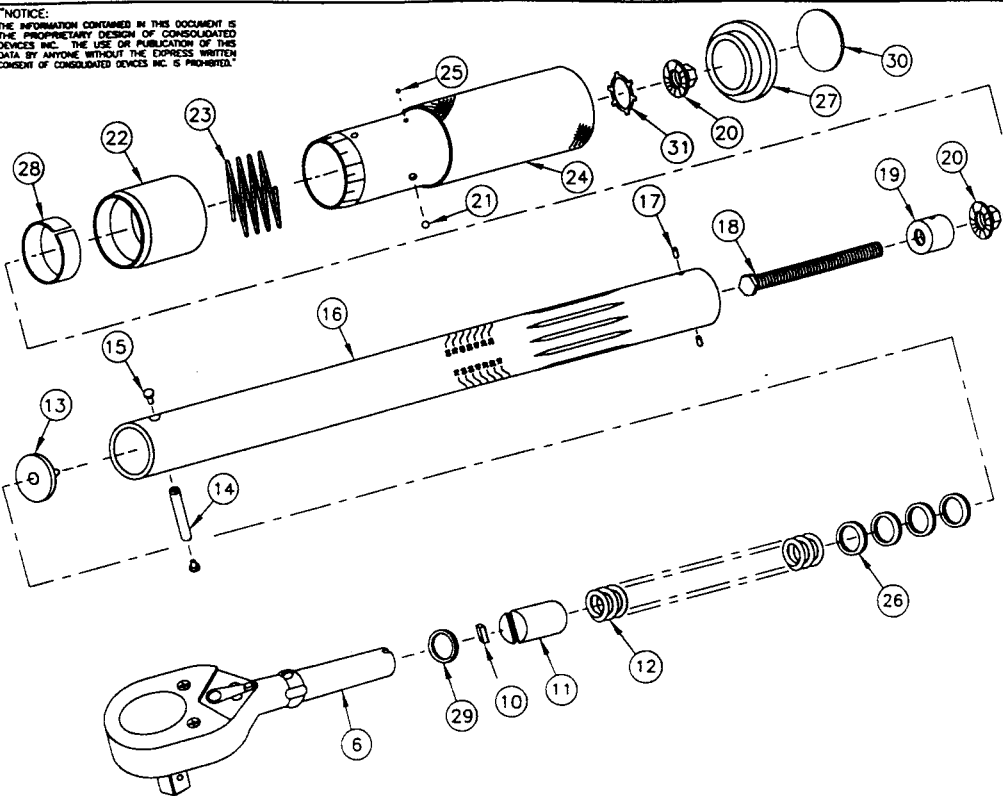
▲ FOR ITEM 9 USE P/N 48-208-35 ONLY FOR G.S.A.

NOTES:

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1502LDIN (TORSION)

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	G	ITEM 10 WAS 50-18, ITEM 16 WAS 61-250-2, ITEM 24 WAS 61-248-2, ITEM 27 WAS 10-103-2, ADD ITEMS 28 THRU 31, NOTES 4 & 5, 61-215-0 REPLACED W/61-100-100, DELETE NOTES 2 & 3.	9-25-98	Jay

31	61-237	RETAINING RING-SELF LOCKING	1
30	10-203-1	CDI END PLUG (SMALL) ONLY FOR CDI	1
29	10-241-2	O-RING	1
28	47-338-2	NYLON BUSHING	1
27	96-103-2	END PLUG	1
26	10-104-2	WASHER, FLAT	4
25	10-106-1	BALL 3/32	1
24	61-448-2	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-1	ADJUSTING SCREW (2.00 LONG)	1
17	10-106-5	BALL	2
16	61-250-22	TUBE, (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-265	SPRING, TORQUE	1
11	50-16	CAM	1
10	61-18-0	PIVOT BLOCK	1
9			
8			
7			
6	△	RATCHET BODY ASSEMBLY	1
5			
4			
3			
2			
1			

△ PRODUCT SHOULD BE MADE PER REV. "G" AFTER REV. "F" HAS BEEN PHASED OUT.

△ USE ITEM 30 FOR CDI ONLY.

△ IF 61-100-100 NOT AVAILABLE 61-215-0 CAN BE USED AS TEMPORARY REPLACEMENT.

NOTES:

-6					
-5					
-4	61-273-2	61-100-10	WILLIAMS	BTW-ORCA	
△ -3	61-246-11	61-100-10	CDI	1502MRMH-QR	
△ -2	61-246-11	61-100-100	CDI	1502MRMH	
-1	SEE SEPARATE DRAWING		GSA		
TAB NO.	△ ITEM NO. 22	△ ITEM NO. 6	CUSTOMER	MODEL NO.	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGELS
 : 1/32 .001 .015

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

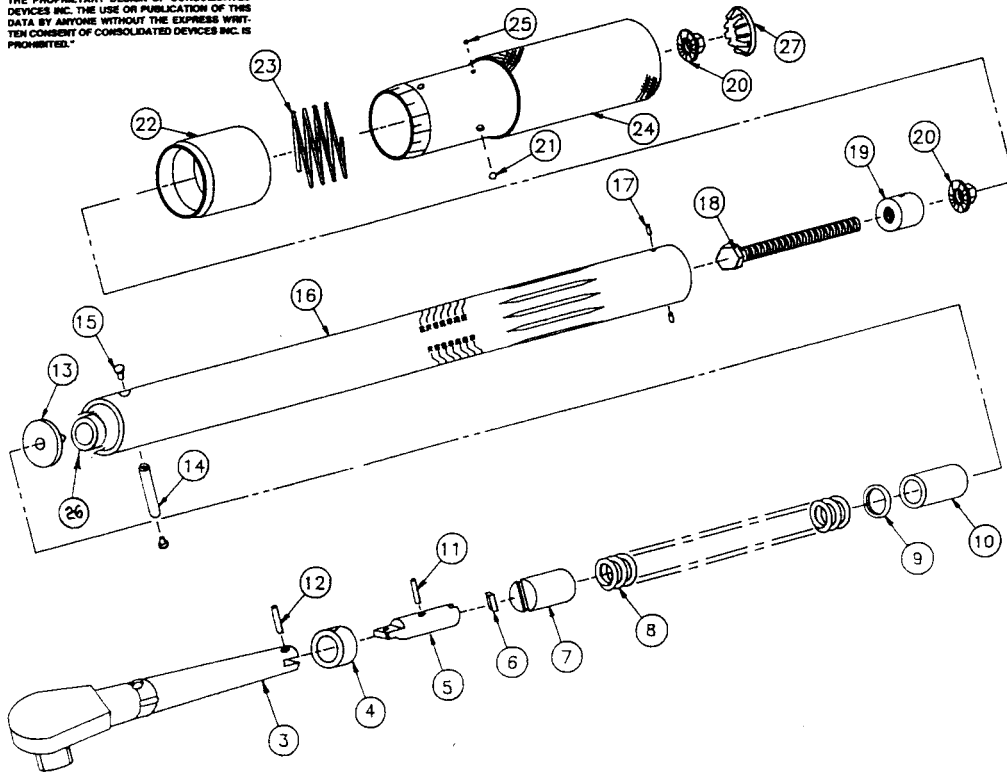
EXPLODED ILLUSTRATION
 MICRO ADJ. WRENCH 3/8 DR. RATCHET
 150 IN.LB. RATCHET BODY-OVAL

DRAWN	SCALE	DRAWING NO.
Jay	NONE	
APPROVED	DATE	
Jay	04-26-94	61-337-TAB

NOTE: UNCONTROLLED COPY

1502MRMH COMMERCIA

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ITEM 18 WAS 47-242-2	03-24-95	<i>jay</i>
A.M.V.	B	ITEM 10 WAS 95-28-1, ITEM 12 WAS +5-250, ADD ITEM 26.	11-21-95	<i>jay</i>

27	10-103-3	BUTTON PLUG	1	
26	95-28-3	SPACER	1	
25	10-106-1	BALL (3/32)	1	
24	47-248-1	HANDLE ASSEMBLY (ROLL STAMP)	1	
23	47-249	SPRING, LOCK RING	1	
22	▲	LOCK RING	1	
21	10-106-8	BALL (1/8)	1	
20	47-245-1	HEX FLANGE NUT	2	
19	47-241	INSERT TUBE	1	
18	47-342-3	ADJ. SCREW	1	
17	47-240	PIN	2	
16	96-204-3	TUBE (ROLLSTAMP)	1	
15	45-92	RIVET, PIVOT PIN	2	
14	45-91	PIN, PIVOT	1	
13	30-8	WASHER, THRUST	1	
12	10-102-13	PIN, ROLLER	1	
▲	11	10-102-24	PIN, FULCRUM	1
10	95-28-2	SPACER	1	
9	10-104-1	WASHER, FLAT	A/R	
8	95-246	SPRING, TORQUE	1	
7	45-251	CAM	1	
6	45-253-1	PAWL	1	
▲	5	61-61	SECONDARY ARM	1
▲	4	61-60	FULCRUM	1
3	45-233-2	ARM & DRIVE ASSEMBLY	1	

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 XX ± .01 ± 1/2° XXX ± .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION	
FINISH		MICRO. ADJ. WRENCH PLAIN HEAD	
		96 SERIES 1/2 DRIVE 150 FT.LB.	
		DRAWN <i>slg</i>	SCALE NONE
		APPROVED <i>jay</i>	DATE 5-27-94
		DRAWING NO. 96-242-TAB	

▲ FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE DWG. 61-33
 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
NOTES:

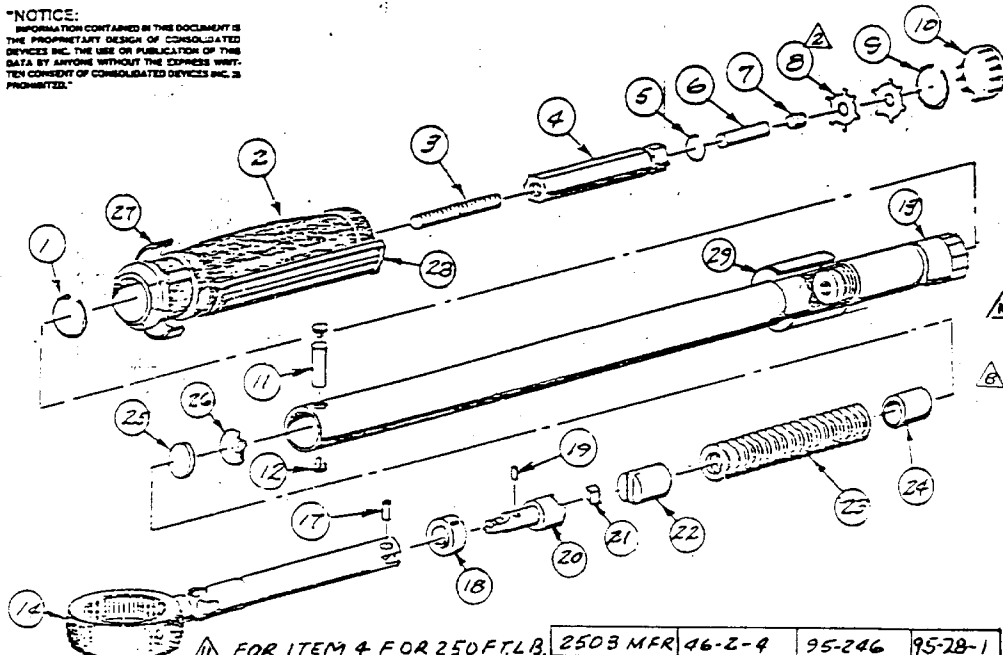
-1	47-246-13	CDI	1503MFMH
TAB #	▲ ITEM # 22	CUSTOMER	MODEL #

RAY BLUEPRINT SERVICE, INC. (818) 236-4409

NOTE: UNCONTROLLED COPY

1503MFMH Commercial

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- ▲ FOR ITEM 4 FOR 250 FT. LB. USE 45-48-1.
- ▲ ITEM 24, NOT USED FOR 200 FT. LB.
- ▲ ITEM 20, FOR 2400 IN. LB. USE 61-62.
- ▲ ITEM 21, FOR 2400 IN. LB. USE 46-253-1.

2503 MFR	46-2-9	95-246	95-28-1
24003 MR	46-2-2	95-245	N/A
16003 MR	46-2-2	96-295	95-28-2
2003 MFR	46-2-2	95-246	N/A
1603 MFR	46-2-2	95-246	N/A
FOR	ITEM 13 PART NO.	ITEM 23 PART NO.	ITEM 24 PART NO.

- ▲ FOR WRENCHES TO BE RECALIBRATED, SEE 46-253-TAB.
- ▲ ITEM 28 HANDLE GRIP FURNISHED IF REQUESTED.
- ▲ SEE 95 SERIES PARTS LIST TO DETERMINE A PART NO. FOR A PARTICULAR HANDLE LABEL (ITEM 23) & TUBE LABEL (ITEM 26)
- ▲ ITEM 2, FOR RED HANDLE, USE 46-1-2
- ▲ ITEM 8, NOT USED FOR 250 FT. LB.
- ▲ ITEMS 3 THRU MAY BE FURNISHED AS COMPLETE ASSY.
 - A. HEX. ASSY. (45-94-1) WITH ITEM 6 (46-6-1) FOR 150 FT. LB. & 1600 IN. LB.
 - B. HEX. ASSY. (45-94-1) WITH ITEM 6 (45-6-1) FOR 200 FT. & 2400 IN. LB.
 - C. HEX. ASSY. (45-94-2) WITH ITEM 6 (45-6-2) FOR 260 FT. LB.

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
RR	E	ADD NOTE.	7-12-78	787

29	▲	LABEL TUBE	1
28	45-277	HANDLE GRIP	1
27	▲	LABEL HANDLE	1
26	30-B	WASHER, THRUST	1
25	10-104-1	WASHER, FLAT	AIR
24	SEE BLOCK	SPACER	1
23	SEE BLOCK	SPRING TORQUE	1
22	45-251	CAM	1
21	45-253-1	PAWL	1
20	61-61	SECONDARY ARM	1
19	10-102-24	PIN, FULCRUM	1
18	61-60	FULCRUM	1
17	45-250	PIN, ROLLER	1
16	95-44	RETAINER RING RATCHET	1
15	95-54	GUTS, RATCHET	1
14	45-93-1	RATCHET BODY	1
13	SEE BLOCK	TUBE ASSY.	1
12	45-92	RIVET, PINOT PIN	2
11	45-91	PIN, PINOT	1
10	10-103-3	BUTTON PLUG, HANDLE	1
9	45-137	CLIP HEX RETAINER	1
8	45-75	WASHER, HEX. LOCK	2
7	10-101-19	SOC. SET SCREW, HEX BAR	1
6	▲	PIN, LOCK HEX BAR	1
5	45-2	CLIP, SPRING HEX BAR	1
4	45-49	HEX BAR, INTERNAL ADJ.	1
3	10-101-1	SOC. SET SCREW, HEX BAR	1
2	46-1-1	HANDLE, PLASTIC (BLACK)	1
1	45-74	CLIP, HANDLE	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES = 1/32 = .03125 = 90° = 90°

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH, 1/2 DR. RATCHET

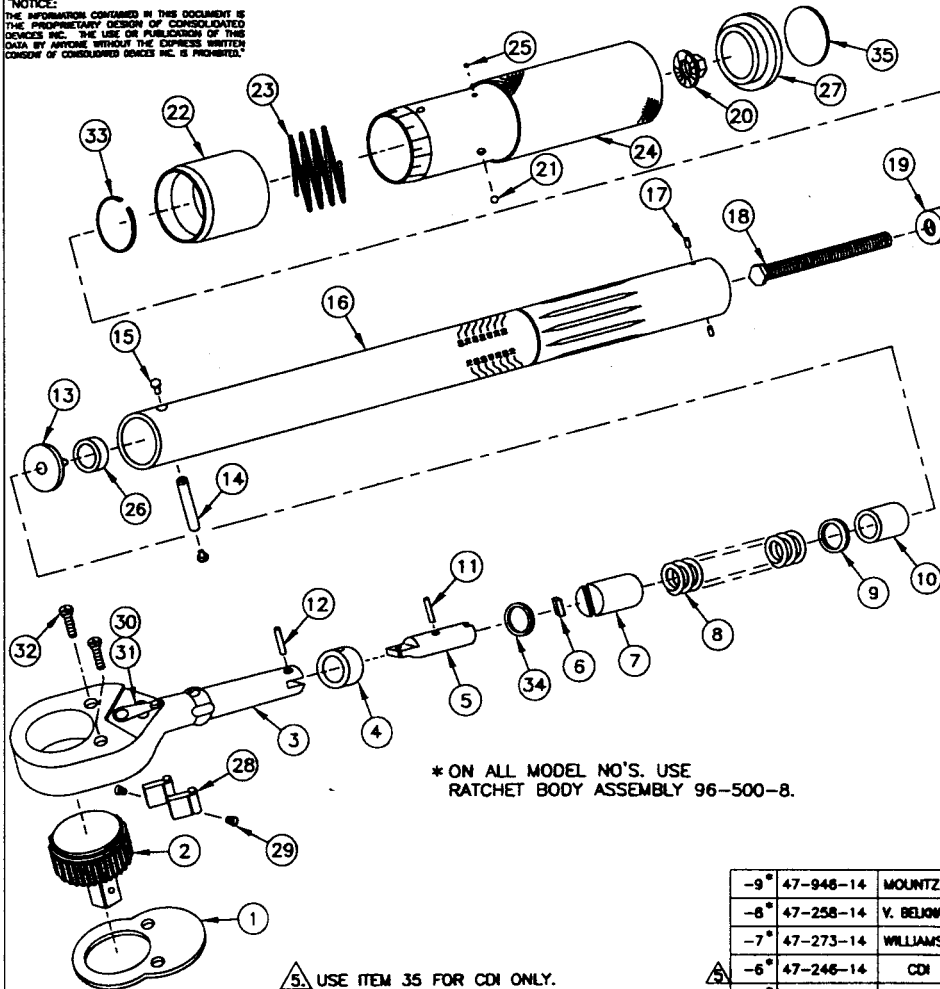
12896

DATE 2-25-78 SCALE NONE DRAWING NO.

APPROVED [Signature] DATE 2-26-78 96-132-1

6003 MFR 1503 MFR 2503 MFR
 21003 MR, 2003 MFR

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* ON ALL MODEL NO.'S. USE RATCHET BODY ASSEMBLY 96-500-8.

△ USE ITEM 35 FOR CDI ONLY.

△ ITEMS △ NOTED REPLACE WITH P/N 96-500-8 (QUICK RELEASE) FOR -4, -5, -6, -7, -8, -9.

△ FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE DWG. 61-33.

△ FOR COMPLETE ASSEMBLY OF ITEMS △ NOTED, SEE 96-400-0.

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	K	ITEM 10 WAS 95-28-2, ITEM 27 WAS 10-103-3	1-14-99	Jay

36				
35	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI		1
34	10-241-1	O-RING		1
33	47-238-1	SPRING RING		1
32	265-69-7	SCREW		2
31	265-69-8	REVERSING LEVER		1
30	265-69-5	REVERSING CAM		1
29	265-69-3	SPRING		2
28	265-69-4	DOG (R.H. & L.H.)		2
27	96-103-3	END PLUG SNAP-ON, CDI		1
26	95-28-4	SPACER (.35 LONG)		1
25	10-106-1	BALL (3/32)		1
24	47-248-1	HANDLE ASSEMBLY (ROLL STAMP)		1
23	47-249	SPRING, LOCK RING		1
22	△	LOCK RING		1
21	10-106-8	BALL (1/8)		1
20	47-245-1	HEX FLANGE NUT		2
19	47-241	INSERT, TUBE		1
18	47-342-5	ADJUSTING SCREW (2.25 LONG)		1
17	47-240	PIN		2
16	96-204-3	TUBE (ROLL STAMP)		1
15	45-92	RVET, PIVOT PIN		2
14	45-91	PIN, PIVOT		1
13	30-8	WASHER, THRUST		1
12	10-102-18	PIN, ROLLER		1
11	10-102-24	PIN, FULCRUM		1
10	95-28-1	SPACER (1.38 LONG)		1
9	10-104-1	WASHER, FLAT		7
8	95-246	SPRING, TORQUE		1
7	45-251	CAM		1
6	45-253-1	PAWL		1
5	61-61	SECONDARY ARM		1
4	61-60	FULCRUM		1
3	96-400-3	RATCHET BODY		1
2	265-69-6	RATCHET WHEEL		1
1	265-69-2	PLATE		1

SEE TAB

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .001 ±1/2°
±.0005 .0005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO ADJ. WRENCH 1/2 DR. RATCHET
150 FT.LB.

DRAWN	ell	SCALE	NONE	DRAWING NO.	96-335-TAB
APPROVED	Jay	DATE	01-06-94		

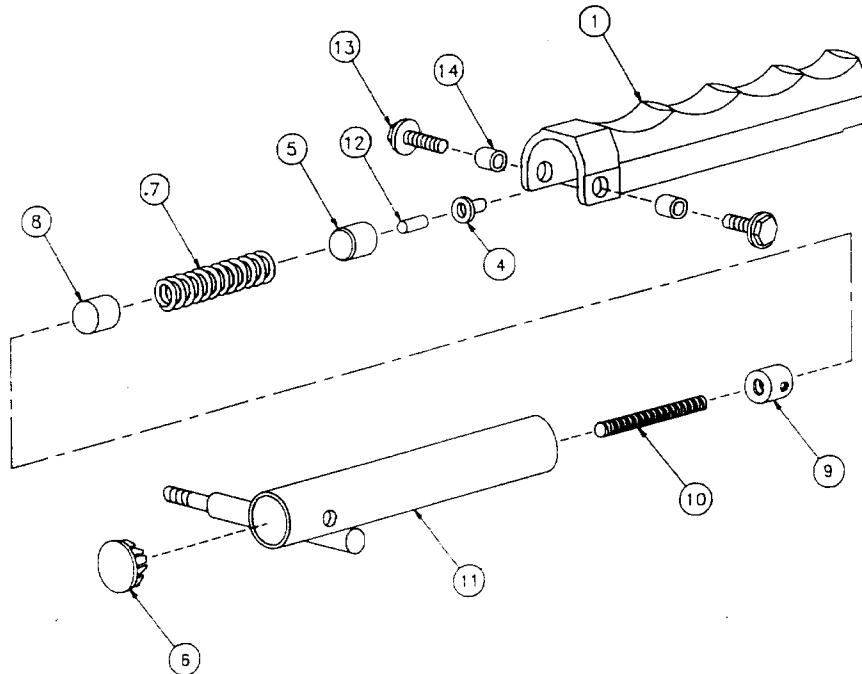
-9	47-948-14	MOUNTZ	MTW 150F
-8	47-258-14	V. BELJOMP	VB 1503MFRMH
-7	47-273-14	WILLIAMS	STW-2RCFA
△ -6	47-246-14	CDI	1503MFRMH-OR
-5	47-259-14	WRIGHT TOOL	4477
-4	47-266-2	T & E	7295
-3	47-251-2	HASTINGS	1221
-2	47-250-1	CAT	9U5018
△ -1	47-246-14	CDI	1503MFRMH
TAB NO.	ITEM NO.	CUSTOMER	MODEL NO.

NOTE: UNCONTROLLED COPY

1503MFRMH COMMERCIAL
1503MFRMH-QR

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BY	LTR	DESCRIPTION	DATE	APPROVED
del	F	REDRAWN FOR CLARITY - NO CHANGE	1-12-96	Joy



14	25-57	SLEEVE	2
13	10-202-1	HEX WASHER, HEAD SCREW	2
12	25-6-2	PAWL	1
11	25-67	TUBE & DRIVE ASSEMBLY	1
10	10-101-10	SETSCREW, SOCKET	1
9	25-15	PLUG	1
8	25-8	WASHER, THRUST	1
7	25-13	SPRING, TORQUE	1
6	10-103-1	BUTTON PLUG	1
5	25-4	CAM	1
4	25-5	SUPPORT, PAWL	1
3			
2			
1	25-52-2	PLATE & HANDLE ASSEMBLY (BLACK)	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGELS
 ±1/32 .001 ±.01 ±1/2°
 .0002 .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 TORKY-PRESET

2-150 IN.LB., 2-170 CMKG & 2-170 dNm

APPROVED	DATE	SCALE	NONE	DRAWING NO.
Flatho	10-23-84			25-68

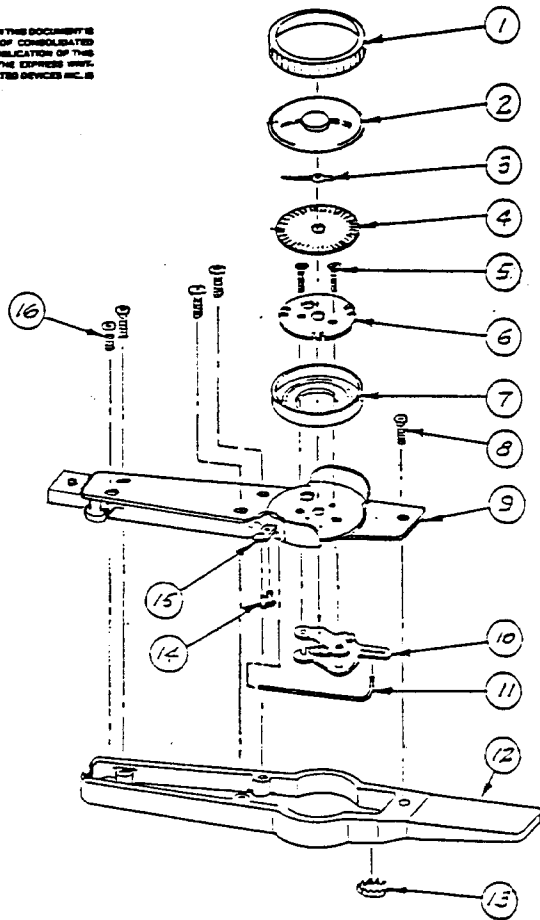
2. PRESET TO 22 IN.LB. ± 1 IN.LB.
 1. HANDLE BLACK.

NOTES:

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1501TP

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1	238-212-9	0-195 CM/RP 7-175 JNM	HERMANN WERNER 7532
TAB NO.	SCALE	RANGE	CUST

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
JK	A	REDESIGNED ITEM 9	11-5-91	JOM
ZJS	B	ITEM 8 WAS 10-111-2 ITEM 16 WAS 10-111-5	9/11/92	ZJS

16	10-222-2	SCREW SELF TAPPING - PLATE	2
15	40-145	CLAMP PUSH ROD	1
16	10-110-1	SCREW MACH. ROUND HEAD	2
13	10-103-2	BUTTON PLUG	1
12	230-290-3	CASE	1
11	20-11-3	PUSH ROD	1
10	10-113	MOVEMENT	1
9	148-108-50	BEAM PLATE & GUARD ASSY.	1
8	10-222-6	SCREW SELF TAPPING - BEAR	1
7	48-B3	RING, BEZEL MOUNTING	1
6	40-B2	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW MACHINE FLAT HEAD	2
4	1/A	SCALE	1
3	48-18-1	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-B4	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			

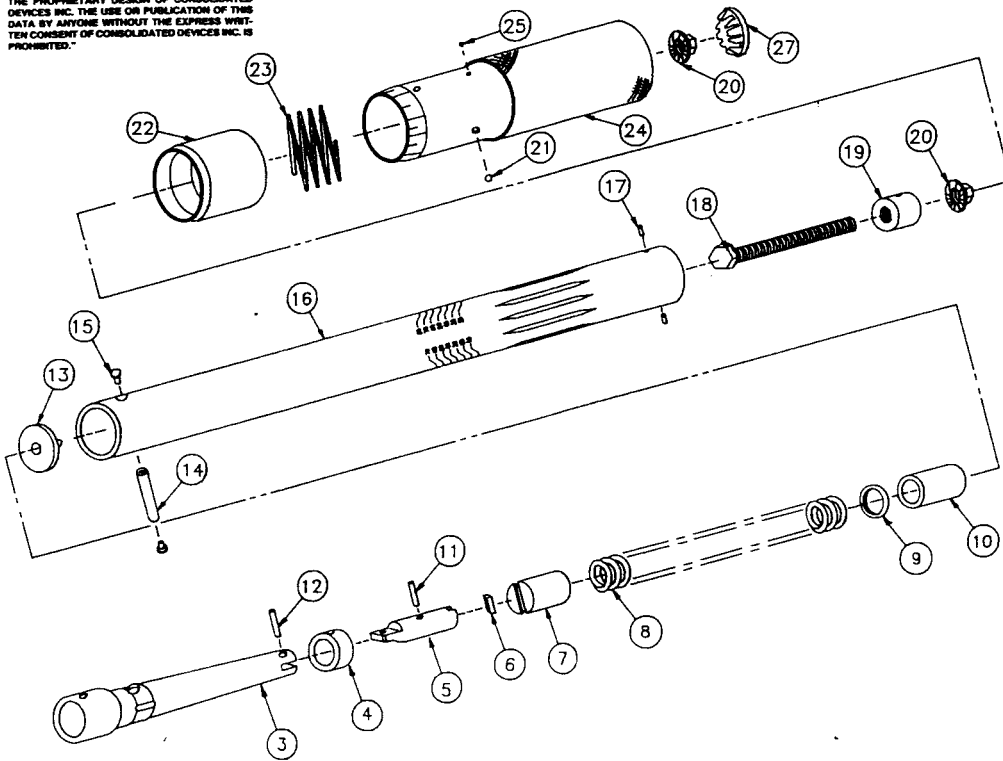
UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 ± .01 ± 1/4°
 XXX = .001

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (MEMORY)
 INTERCHANGEABLE DRIVE

DRAWN	ZJS	SCALE	---	DRAWING NO.	374-62-TA5
APPROVED	<i>[Signature]</i>	DATE	11/23/88		

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- △ FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE DWG. 61-33.
- △ TO BE CALIBRATED WITH INSERT RYP-8.
 (SUGGESTED PAWL: 230 OR 235 ON SIDE).

NOTES:

-2	47-258-24	V. BELKNAP	YB 150MFIMH
-1	47-246-24	CDI	150 MFIMH
TAB #	△ ITEM # 22	CUSTOMER	MODEL #

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SP	A	150 MFIMH W/RS 1503 MFIMH	6-17-94	Jay
A.M.V.	B	ITEM 18 WAS 47-242-2	03-24-95	Jay
A.M.V.	C	ADD -2	10-9-96	Jay

27	10-103-3	BUTTON PLUG	1
25	10-106-1	BALL (3/32)	1
24	47-248-1	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT TUBE	1
18	47-342-3	ADJ. SCREW	1
17	47-240	PIN	2
16	96-204-3	TUBE (ROLLSTAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
△ 11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	1
9	10-104-1	WASHER, FLAT	A/R
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	△	PAWL	1
△ 5	61-61	SECONDARY ARM	1
△ 4	61-60	FULCRUM	1
3	30-38	ARM CLICK	1

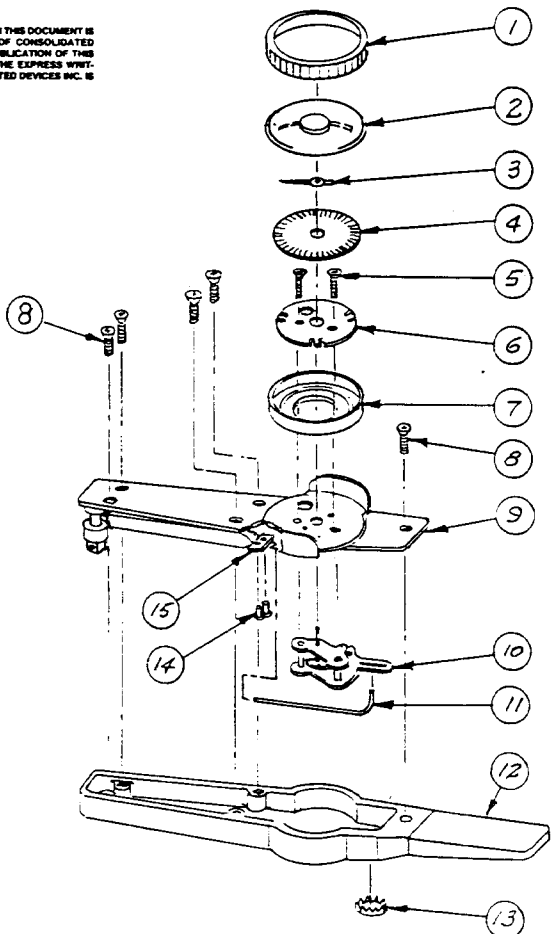
CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 XX ± .01 ± 1/4° XXX ± .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION MICRO.ADJ.WRENCH INTERCHANGEABLE HEAD 150 FT.LB.	
FINISH		DRAWN <i>led</i>	SCALE NONE
		APPROVED <i>Jay</i>	DATE 6-15-94
		DRAWING NO. 96-542-TAB	

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	-5	+8-208-8	238-204-62	0-15 IN. LB 0-18 dNm	YB15LDIN BELKNAP
	-4	48-208-8	238-205-42	0-15 IN. LB. 0-18 dNm	15LDIN CARLSONS
	-3	48-208-8	238-204-60	18 KSCM 15 IN. LB	18DB4 - OLY
GSA	-2	48-208-45	238-204-10	15 IN. LB 10 INM	15LDIN GSA
	-1	48-208-8	238-204-10	0-15 IN. LB 0-18 dNm	C.D.I. 15LDIN
TAB	▲	ITEM 9	▲	SCALE RANGE	CUST.

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 8 WAS 10-111-9 ITEM 16 WAS 10-111-5	9/11/92	Jay
SQ	B	REMOVED ITEM 16, ITEM 8 WAS 10-111-9	8/2/93	Jay
JR	C	ADD - 2	4-26-94	Jay
SQ	D	ADD TAB 3	10-20-96	Jay
A.M.V	E	ADD - 4	05-08-95	Jay
A.M.V	F	238-205-42 WAS 238-204-42	5-16-95	Jay
A.M.V	G	ADD - 5	7-18-96	Jay

CODE IDENT	PART NO.	DESCRIPTION	REQD
15	40-145	CLAMP PUSH ROD	1
14	10-110-1	SCREW, MACH. ROUND HEAD	2
13	10-103-2	BUTTON PLUG	1
12	230-240-4	CASE	1
11	80-11-3	PUSHROD	1
10	10-113	MOVEMENT	1
9	B	DRIVE, PLATE & GUARD ASSY.	1
8	10-222-6	SCREW, SELF TAPPING - BEAR	5
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	A	SCALE	1
3	48-18-1	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/32 XX ± .01 ± 1/2°
XXX ± .005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
DIAL WRENCH (MEMORY) 1/4 DR.

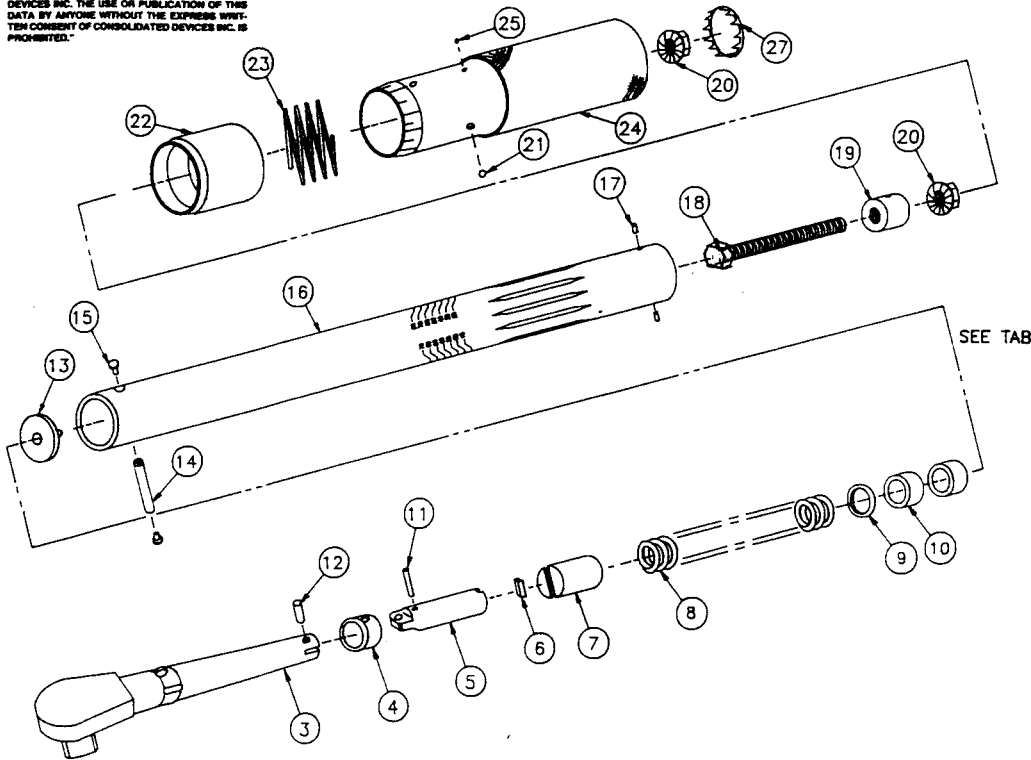
MATERIAL		
FRESH		
DRAWN	ZJS	SCALE —
APPROVED	Jay	DATE 9/12/90.
		DRAWING NO. 238-165-TAB

151 LDIN (TORSION)

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SA	A	ITEM B WAS 45-225	10-12-93	Joy
SA	B	DELETE ITEM 26, ITEM 10 WAS 1 800	3-7-94	Joy
A.M.V.	C	ITEM 18 WAS 47-242-2	03-24-95	Joy

27	10-103-3	BUTTON PLUG	1
26			1
25	10-106-1	BALL (3/32)	1
24	47-248-4	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	A	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT TUBE	1
18	47-242-3	ADJUSTING SCREW	1
17	47-240	PIN	2
16	96-204-4	TUBE (ROLLSTAMP)	1
15	45-92	RVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	2
9	10-104-1	WASHER, FLAT	A/R
8	96-245	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	45-233-2	ARM & DRIVE ASSMEBLY	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 XX ± .01 ± 1/2°
 .XXX ± .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. PLAIN
 96 SERIES 1600 IN.LB.

DRAWN	SAJ	SCALE	NONE	DRAWING NO.	96-238-TAB
APPROVED	Joy	DATE	7-29-93		

-1	47-246-5	COI	16003 MMH	
TAB #	"A" ITEM # 22	CUSTOMER	MODEL #	

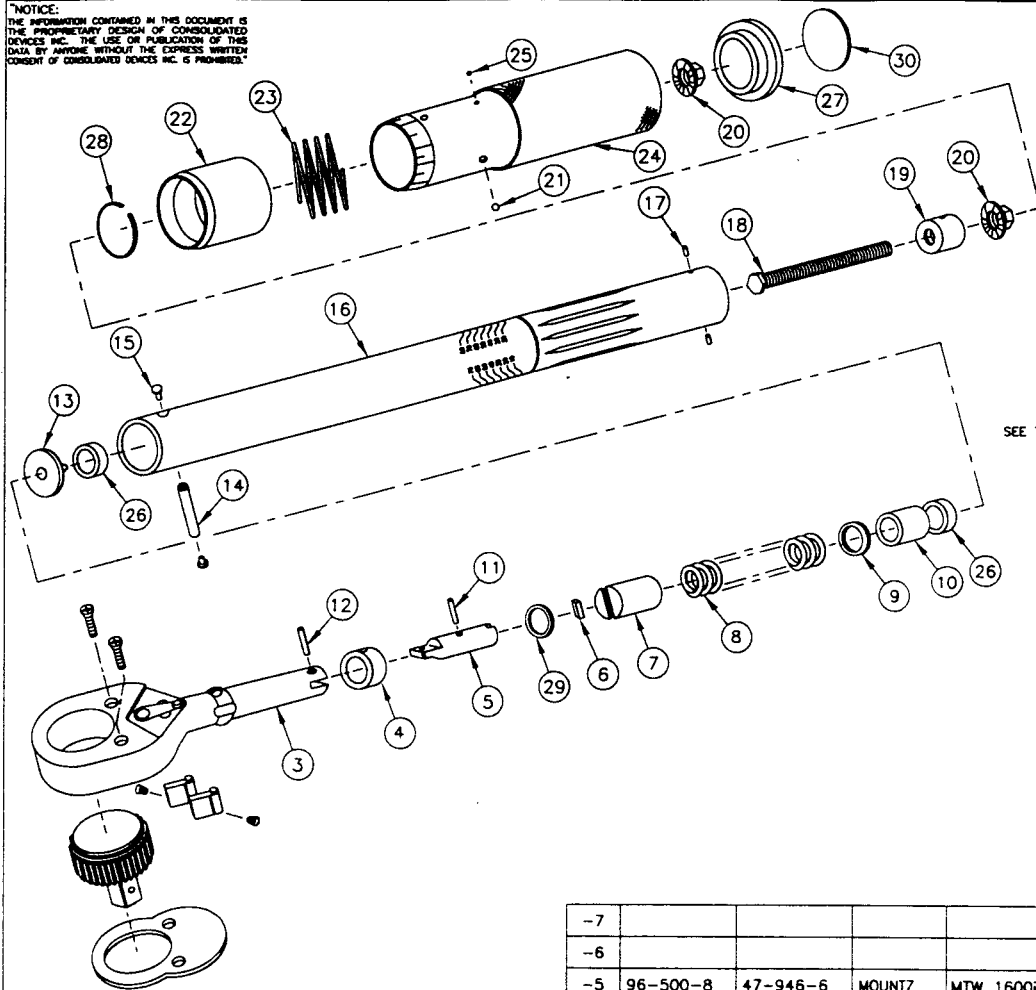
1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
 NOTES:

K&V BLUEPRINT SERVICE, INC. (818) 336-4409

NOTE: UNCONTROLLED COPY

16003 MMH

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△ USE ITEM 30 FOR CDI ONLY.
 △ FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE DWG. 61-33.
 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
 NOTES:

-7					
-6					
-5	96-500-8	47-946-6	MOUNTZ	MTW 1600i	
-4	96-500-8	47-275-6	GRAY TOOL	MR 1600HD	
△ -3	96-500-8	47-246-6	CDI	16003MRMH-QR	
-2	96-500-8	47-259-6	WRIGHT TOOL	4476	
△ -1	96-500-80	47-246-6	CDI/McMASTER	16003MRMH-CDI	
TAB NO.	ITEM NO. 3	ITEM NO. 22	CUSTOMER	MODEL NO.	

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	H	ADD TAB NO. -5, ITEM 27 WAS 10-103-3	9-25-98	Jay

32			
31			
△ 30	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
29	10-241-1	O-RING	1
28	47-238-1	SPRING RING	1
27	96-103-3	END PLUG SNAP-ON, CDI	1
26	95-28-3	SPACER (.60 LONG)	2
25	10-106-1	BALL (3/32)	1
24	47-248-4	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	96-204-4	TUBE (ROLL STAMP)	1
15	45-92	RVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
△ 11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER (1.38 LONG)	1
9	10-104-1	WASHER, FLAT	A/R
8	96-245	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
△ 5	61-61	SECONDARY ARM	1
△ 4	61-60	FULCRUM	1
3	△	RATCHET BODY ASSEMBLY	1
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 :1/32 .XX :.01 :1/2°
 :.XXX .005
 MATERIAL
 FINISH

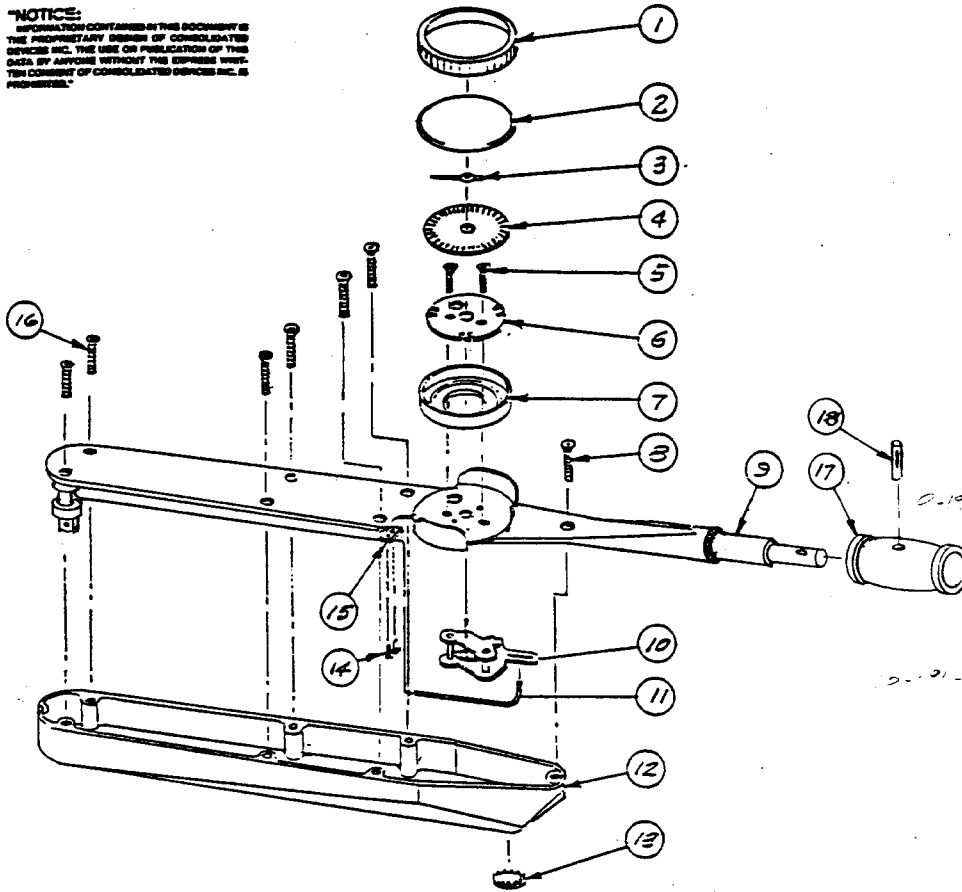
CONSOLIDATED DEVICES, INC.
 City of Industry, California
EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. RATCHET
 1600 IN.LB.

DRAWN	Z.J.S.	SCALE	NONE	DRAWING NO.	
APPROVED	Jay	DATE	12-30-91		96-234-TAB

NOTE: UNCONTROLLED COPY

SECONDARY ARM 16003 MRMH - CDI
 16003 MAMH - QR

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TO BE RE-PAIRED
 N/A 48-110-1
 (17 PARTS LIST)

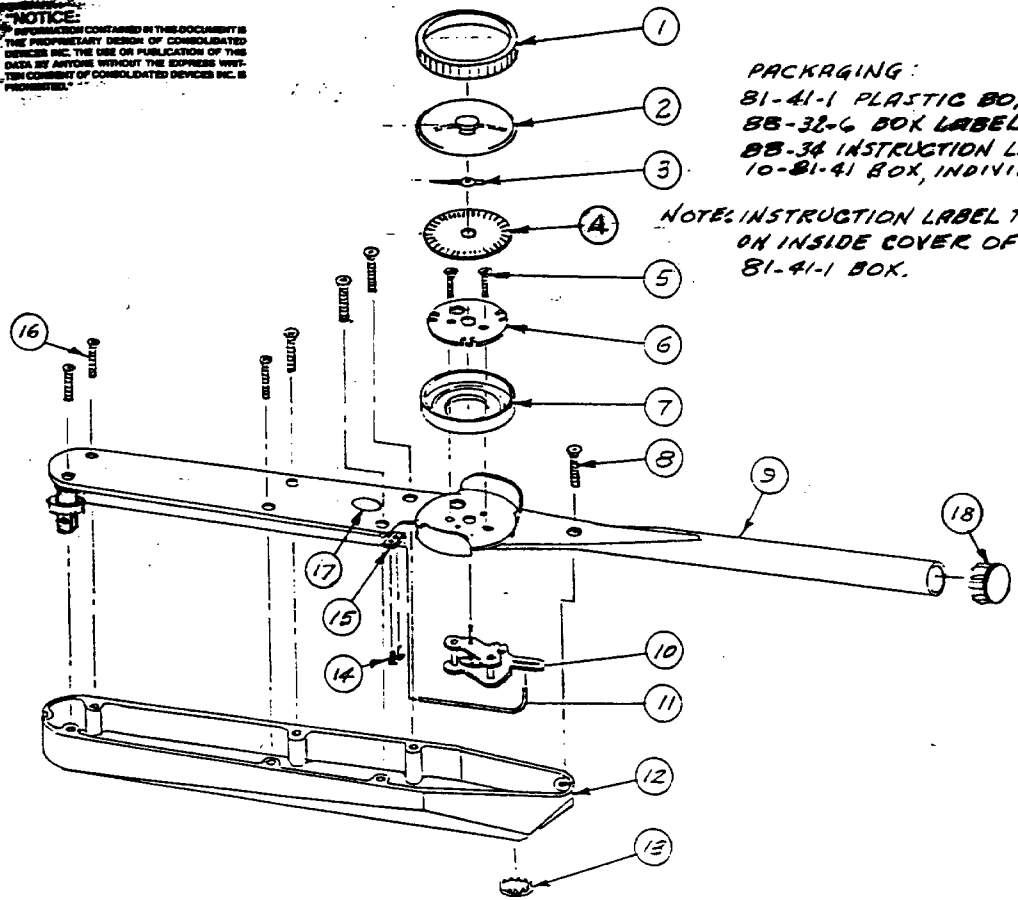
REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 12 WAS 80-34-1		

18	10-140-2	GROOVE PIN	1
17	110-11-1	HANDLE	1
16	10-165-2	SCREW, SELF TAPPING, PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	80-34-4	CASE	1
11	80-11-1	PUSHROD	1
10	10-113	MOVEMENT	1
9	48-108-20	HANDLE CHANNEL, BEAM & GUARD ASSY	1
8	10-165-1	SCREW, SELF TAPPING, REAR	1
7	48-82	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	88-200-45	SCALE	1
3	48-18-2	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES $\pm .005$ $\pm .01$ $\pm 1/2^\circ$ $\pm .001$ $\pm .005$		
PARTS LIST		
CONSOLIDATED DEVICES, INC. City of Industry, California		
EXPLODED ILLUSTRATION DIAL WRENCH (PLAIN) 1/2 DR. TECH-MATE (OSHMAN'S)		
MATERIAL	DATE	SCALE
FINISH	DATE	SCALE
DRAWN: ZJS	SCALE: —	DRAWING NO.
APPROVED: [Signature]	DATE: 2/20/88	88-51-45

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PACKAGING:
 81-41-1 PLASTIC BOX
 88-32-6 BOX LABEL
 88-34 INSTRUCTION LABEL
 10-81-41 BOX, INDIVIDUAL

NOTE: INSTRUCTION LABEL TO BE ON INSIDE COVER OF 81-41-1 BOX.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED BY
ZJS	A	ADD 10-81-41 BOX TO PACKAGING.	3/22/91	ZJS
ZJS	B	ADD ITEM 18	7-21-92	ZJS
ZJS	C	ITEM 9 WAS 10-165-1 ITEM 16 WAS 10-165-2	9/11/92	ZJS

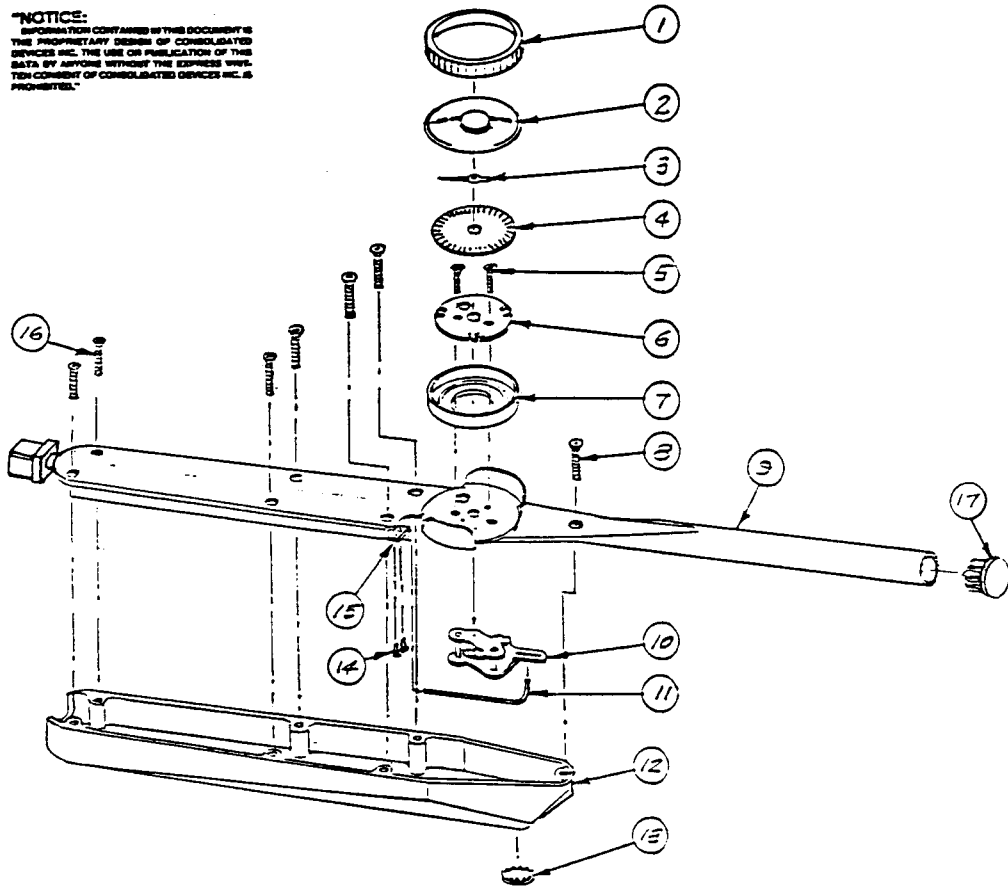
18	10-103-7	BUTTON PLUG	1
17	88-35	INSPECTION LABEL	1
16	10-235-1	SCREW, SELF TAPPING - PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	80-34-4	CASE	1
11	80-11-1	PUSH ROD	1
10	10-113	MOVEMENT	1
9	48-208-10	HANDLE CHANNEL, BEAM & GUARD ASSY	1
8	10-235-4	SCREW, SELF TAPPING - BEAR	1
7	48-89	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	88-200-15	SCALE	1
3	48-18-2	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES .125 .01 .125 .001 .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL FINISH		EXPLODED ILLUSTRATION DIAL WRENCH (MEMORY) 1/2 DR. TORSION 10-2400 Kgf-CM 10-2400 N.M.	
DRAWN ZJS APPROVED [Signature]		SCALE — DATE 9/12/90	DRAWING NO. 88-161-7

NOTE: UNCONTROLLED COPY

1753 LDFN KTC CMD 243

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△ ITEM 3 FOR 175 FT. LB. USE 48-108-56
 ITEM 9 FOR 250 FT. LB. USE 48-108-55

NOTE:

3	98-245-57	0-300 Nm, 0-30 mkp	CDI-HOFFMANN 300ALDI
2	88-211-9	0-24 MKP, 0-240 Nm	H WERNER 7544
1	88-210-9	0-35 MKP, 0-350 Nm	H.WERNER 7535
TAB NO.	△ SCALE	RANGE	CUST

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ADD NOTE 1	2/2/90	[Signature]
ZJS	B	ADD ITEM 17	7-21-92	[Signature]
ZJS	C	ITEM 8 WAS 10-165-1 ITEM 16 WAS 10-165-2	9/11/91	[Signature]
[Signature]	D	ITEM 11 WAS 80-11-1	3-3-94	[Signature]
A.M.V.	E	ADD TAB 3	10/30/91	[Signature]

ITEM NO.	QTY	DESCRIPTION	REQD
17		BUTTON PLUG	1
16		SCREW SELF TAPPING - PLATE	6
15		CLAMP, PUSH ROD	1
14		SCREW, MACHINE ROUND HD.	2
13		BUTTON PLUG	1
12		CASE	1
11		PUSHROD	1
10		MOVEMENT	1
9	1A	HANDLE CHANNEL BEZEL & GUARD ASSY.	1
8		SCREW, SELF TAPPING - EAR	1
7		RING, BEZEL MOUNTING	1
6		PLATE, DIAL MOUNTING	1
5		SCREW, MACHINE FLAT HEAD	2
4	1A	SCALE	1
3		POINTER	1
2		MEMORY POINTER ASSY.	1
1		BEZEL	1

CODE IDENT	PART. NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .001 ± .01 ± 1/2°
 .005 ± .005

MATERIAL

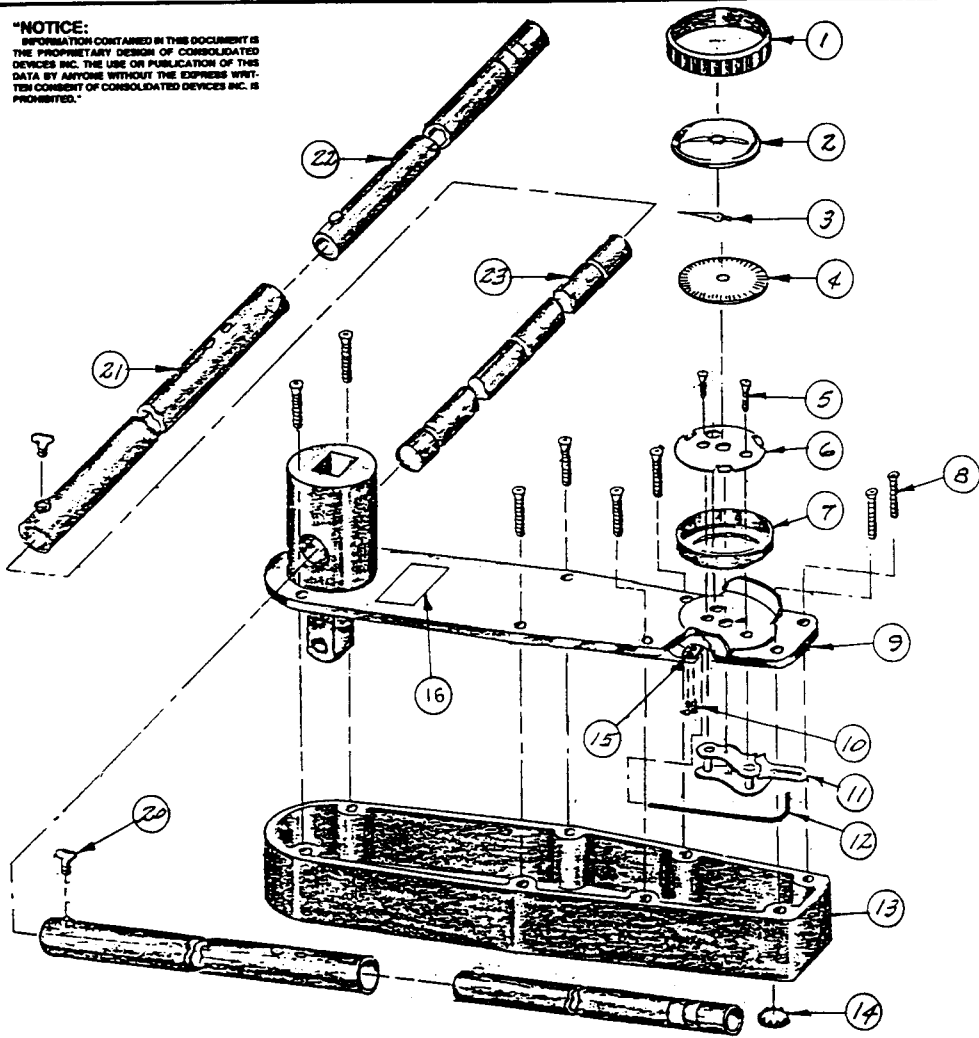
FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (MEMORY)
 INTERCHANGEABLE DRIVE

DRAWN ZJS | SCALE — | DRAWING NO. 264-72-TAB
 APPROVED [Signature] | DATE 11/25/88

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3	288-200-10	0-2000 FT. LB. 0-2800 N.M.	CDI 20005 LDFNX
2	288-202-65	0-280 MKG 0-2000 FT. LB.	CDI 20005 KLDFN
1	288-202-10	0-2000 FT. LB. 0-280 MKG	CDI 20005 LDFN
TAB	SCALE ASS'Y.	RANGE	CUST.

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
B.M.F	A	ITEM 13 285-5-3 WAS 285-5-1	10-07-96	<i>AMV</i>
A.M.V	B	ADD ITEM 16	9-16-98	<i>Joy</i>
RR	C	ADD - 3	4-16-99	<i>Joy</i>

23	285-7	T-BAR	1
22	90-16-1	HANDLE EXTENSION ASS'Y.	2
21	285-9	FIRST EXTENSION	2
20	10-155	WING BOLT	2
19			
18			
17			
16	285-20	CAUTION LABEL	1
15	80-12	CLAMP PUSH ROD	1
14	10-103-3	BUTTON PLUG	1
13	285-5-3	CASE	1
12	80-11-2	PUSH ROD	1
11	10-113	MOVEMENT	1
10	10-110-1	SCREW, MACHINE RD. HEAD	2
9	48-208-19	PLATE & GUARD ASSEMBLY	1
8	10-111-3	SCREW, SELF TAPPING, PLATE	8
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-23	SCREW, MACH. FLAT HEAD	2
4	▲	SCALE	1
3	48-18-5	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 .XX ± .01 ± 1/4°
 .XXX ± .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

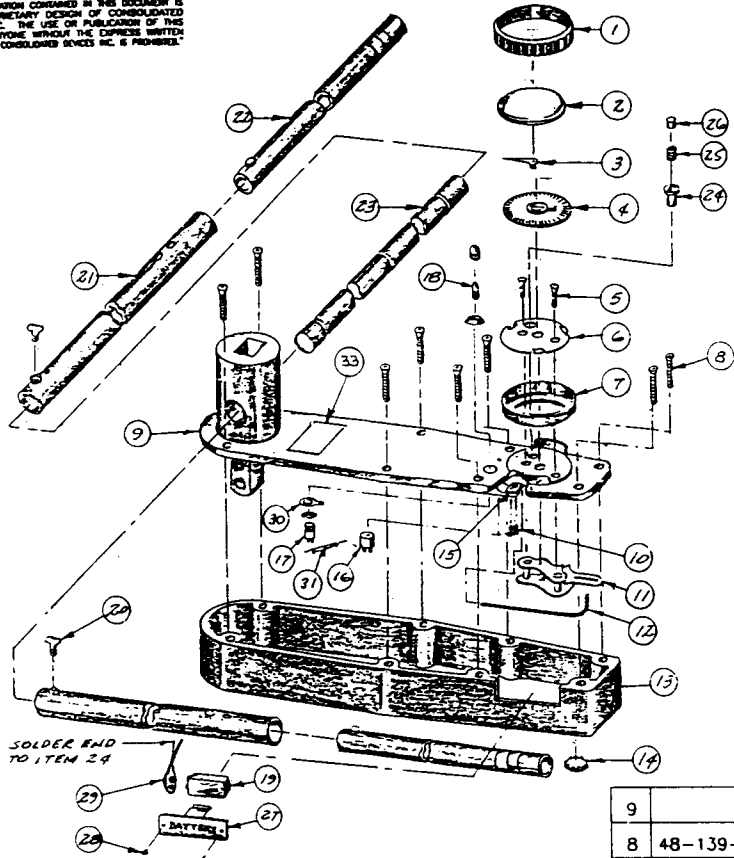
EXPLODED ILLUSTRATION
 DIAL WRENCH (MEMORY) 1" DR (FOR 1/2")
 0-280 MKG 0-2000 FT. LB.

MATERIAL

 FINISH

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.	285-70-TAB
APPROVED	<i>Joy</i>	DATE	5-14-96		

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	K	ADD THE WRENCH & BEEPERS & REV 33, 712BFX WTS 712BF, RETURN & QMS SHEET 2 OF 2	9-16-98	Joy

33	285-20	CAUTION LABEL	1
32	44-9	MOUNTING DEVICE (NOT SOWN)	1
31	81-19-11	RESISTOR, CARBON FILM	1
30	44-7	SOLDER TERMINAL	1
29	81-37	BATTERY PLUG	1
28	10-126-6	SCREW, PAN HEAD MACH.	2
27	284-19	COVER & CLIP ASSEMBLY	1
26	40-115	PLUNGER	1
25	10-105-2	SPRING, PLUNGER	1
24	40-102	RETAINER SPRING	1
23	285-7	T-BAR	1
22	90-16-1	HANDLE EXTENSION ASSEMBLY	2
21	285-9	FIRST EXTENSION	2
20	10-155	WING BOLT	2
19	81-6	BATTERY	1
18	44-6	LAMP	1
17	44-5	LAMP HOLDER	1
16	81-28	BUZZER	1
15	80-12	CLAMP, PUSH ROD	1
14	10-103-3	BUTTON PLUG	1
13	284-105-1	CASE	1
12	80-11-2	PUSH ROD	1
11	10-113	MOVEMENT	1
10	10-110-1	SCREW, MACHINE ROUND HEAD	2
9	44-108-17	PLATE & BATTERY HOUSING ASSEMBLY 1" DR.	1
8	10-222-5	SCREW, SELF TAPPING, PLATE	8
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACH. FLAT HEAD	2
4	▲	SCALE ASSEMBLY	1
3	48-18-3	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

FOR 1 1/2" DR.
USE 284-5-2

FOR 1 1/2" DR.
USE 44-108-14

9			
8	48-139-45	0-2000 FT.LB. 0-2800 Nm	GRAY TOOL DFE2000
7	48-139-40	0-2000 FT.LB. 0-2800 Nm	K-D TOOLS 2656
6	48-139-31	0-2000 FT.LB. 0-280 MKG	PROTO 6149A
5	48-139-34	0-2000 FT.LB. 0-2800 Nm	ARMSTRONG 64-505
4	48-139-73	0-2000 FT.LB. 0-2800 Nm	WRIGHT TOOL 8472
3	48-139-54	0-2000 FT.LB. 0-2800 Nm	WILLIAMS XTD-3-2000F
2	48-139-21	0-2800 Nm 0-280 MKP	HERMANN WERNER 712BFX
1	48-139-12	0-2000 FT.LB. 0-2800 Nm	CDI 20005LDFEX

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGELS :1/32 .01 .1/2"			
MATERIAL			
FINISH			
CONSOLEDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION DIAL WRENCH (ELECTRIC) 1" & 1 1/2" DR. BEEPER			
0-2000 FT.LB. 0-2800 Nm			
DRAWN	Z.J.S.	SCALE	NONE
APPROVED	Z.K.	DATE	01-05-88
			DRAWING NO. 284-70-TAB

▲ FOR WIRING DETAIL & ITEMS & 32 ASSEMBLY SEE 284-11.
NOTES:

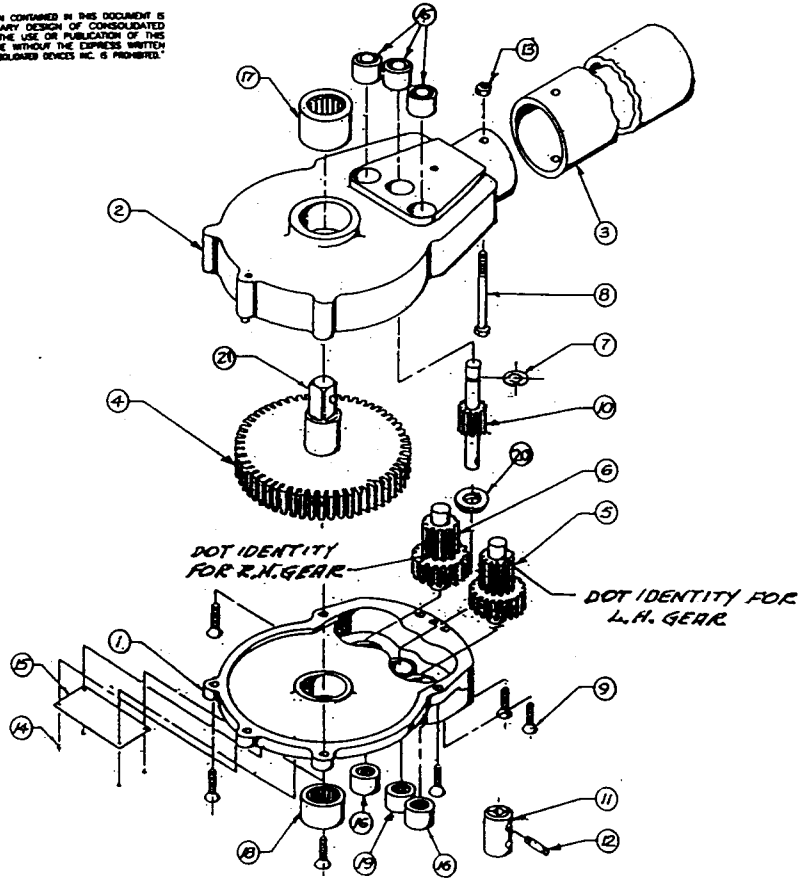
TAB NO.	SCALE	RANGE	CUSTOMER
▲			

NOTE: UNCONTROLLED COPY

20005LDFEX 20006LDFEX

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	G	ADD GSA TO TAB NO. -1, TAB NO. -5, ITEMS 22 THRU 24	1-14-99	<i>Jay</i>



	24	10-161-20	BOX (NOT SHOWN)	1
	23	△	INSTRUCTION SHEET (NOT SHOWN)	1
	22	315-34	INSERT (NOT SHOWN)	1
△	21	135-5	SHAFT (1" SQ. DRIVE)	1
	20	315-45	SPACER	1
	19	10-133-10	NEEDLE BEARING	1
	18	10-133-6	NEEDLE BEARING	1
	17	10-133-9	NEEDLE BEARING	1
	16	10-133-8	NEEDLE BEARING	5
	15	△	NAME PLATE	1
	14	10-142	DRIVE SCREW	4
	13	10-138-2	HEX NUT	1
	12	315-51	PIN, SPRING	1
	11	315-49	SOCKET ADAPTER	1
	10	315-47	GEAR	1
△	9	10-128-3	MACH. SCREW FLAT HEAD SOCKET	6
	8	10-125-7	MACH. SCREW HEX HEAD	1
	7	315-22	SNAP RING	1
	6	315-19	GEAR (12 & 21 TEETH) R.H.	1
	5	315-18	GEAR (12 & 21 TEETH) L.H.	1
△	4	315-20	GEAR (60 TEETH)	1
	3	315-24	TUBE, REACTION	1
△	2	315-26	HOUSING OUTPUT	1
△	1	315-25	HOUSING, INPUT	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

-6				
-5	315-43	20-315-5	H WERNER	7802
-4	315-30	20-315-4	PROTO	6112
-3	315-37	20-315-3	GRAY TOOLS	TM 2000
-2	315-41	20-315-2	K.D. TOOLS	B2561
-1	315-31	20-315-1	CDI/GSA	2000STM
TAB NO.	△	ITEM NO. 15	△	ITEM NO. 23
		CUSTOMER		MODEL NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGELS
±1/32 .001 .01 ±1/2°
XXX:005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
TORQUE MULTIPLIER
2000 FT.LB.

DRAWN	J.J.S.	SCALE	FULL	DRAWING NO.
APPROVED	Z.K.	DATE	02-06-87	315-42-TAB

△ ITEMS 1, 2 & 9 FURNISHED AS COMPLETE ASSEMBLY PAINTED P/N 315-61.

3. DOTS ON GEARS, IDENTIFY R.H. & L.H. GEARS.

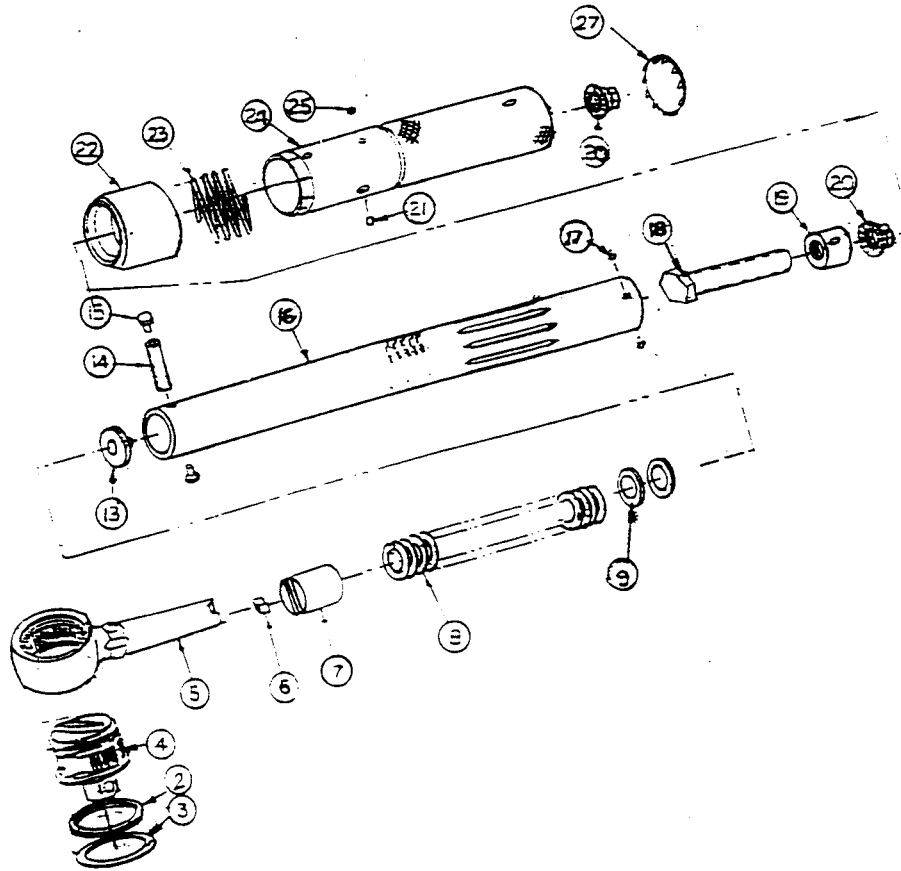
△ ITEMS 4 & 21 MAY BE FURNISHED AS COMPLETE ASSEMBLY P/N 315-28.

NOTES:

NOTE: UNCONTROLLED COPY

20005TM

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ITEM 18 WAS 61-242-	03-24-95	<i>[Signature]</i>
A.M.V.	B	ITEM 9 WAS 10-104 I ITEM 15 WAS 61-261	3-29-95	<i>[Signature]</i>

27	10-103-1	BUTTON PLUG	1
25	10-106-1	BALL 3/32	1
24	61-248-2	HANDLE ASS'Y	1
23	61-249	SPRING LOCK RING	1
22	61-246-6	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX. FLANGE NUT	2
19	61-241	INSERT TUBE	1
18	61-142-2	ADJUSTING SCREW	1
17	10-106-5	BALL	2
16	61-250-3	TUBE (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
9	10-104-2	WASHER, FLAT	AIR
8	61-265	SPRING, TORQUE	1
7	50-16	CAM	1
6	50-18	PAWL	1
5	61-101	RATCHET BODY	1
4	60-257	GUTS, RATCHET (1/4)	1
3	60-253	RETAINER RING, RATCHET	1
2	60-254	SPACER RING	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE
 FRACTIONS DECIMALS ANGLES
 = 1/32 XX = .01 = 1/2
 XXX = .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

MATERIAL

EXPLODED ILLUSTRATION
 MICR. ADJ. WRENCH 1/4 DR. ROUND HEAD

FINISH

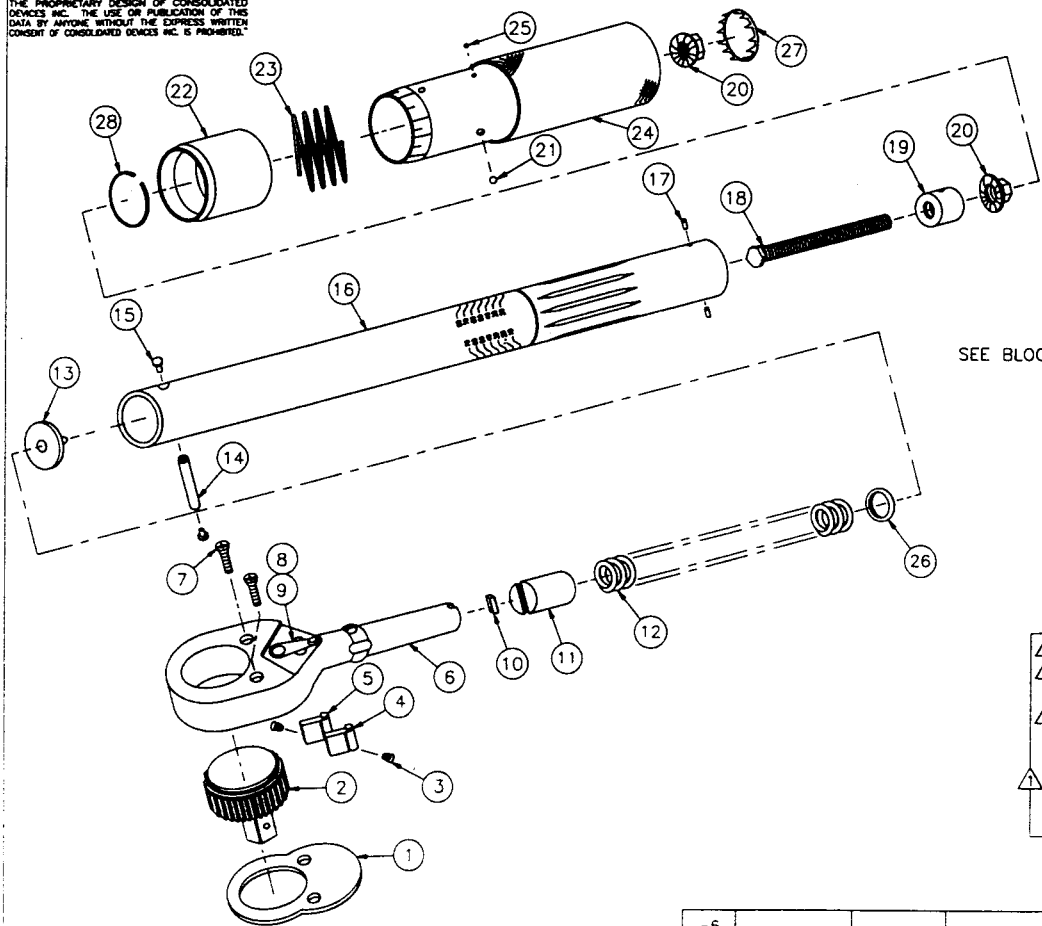
SEE 61

DRAWN	SCALE	DRAWING NO.
APPROVED <i>[Signature]</i>	DATE 8/18/92	61-232-3

2001 MRMH

NOTE: UNCONTROLLED COPY

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SEE BLOCK

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	F	REV 18 WGS 11-10-92, REV 26 WGS 10/21/92, ADD REV 28, MODEL NO. & REVISION	12-5-96	<i>[Signature]</i>

29			
28	47-238-4	SPRING RING	1
27	10-103-1	BUTTON PLUG	1
26	10-104-2	WASHER, FLAT	1
25	10-106-1	BALL 3/32	1
24	61-248-2	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-1	ADJUSTING SCREW	1
17	10-106-5	BALL	2
16	61-250-3	TUBE, (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-265	SPRING, TORQUE	1
11	50-16	CAM	1
10	50-18	PAWL	1
△ 9	61-115-9	REVERSING CAM	1
△ 8	61-115-8	REVERSING LEVER	1
7	61-115-7	SCREW	2
△ 6	61-100	RATCHET BODY	1
5	61-115-5	DOG-RIGHT	1
4	61-115-4	DOG-LEFT	1
3	61-115-3	SPRING	2
2	61-115-2	RATCHET WHEEL	1
1	61-115-1	PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
1/32 .01 .1/2°
XXX.005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1/4 DR. RATCHET
200 IN.LB. RATCHET BODY-OVAL

DRAWN <i>sep</i>	SCALE NONE	DRAWING NO.
APPROVED <i>Jay</i>	DATE 08-18-92	61-334-TAB

-6			
-5			
-4			
-3			
-2	SEE SEPARATE DRAWING		
-1	61-246-6	CDI	2001MRMH
TAB NO.	△ ITEM NO. 22	CUSTOMER	MODEL NO.

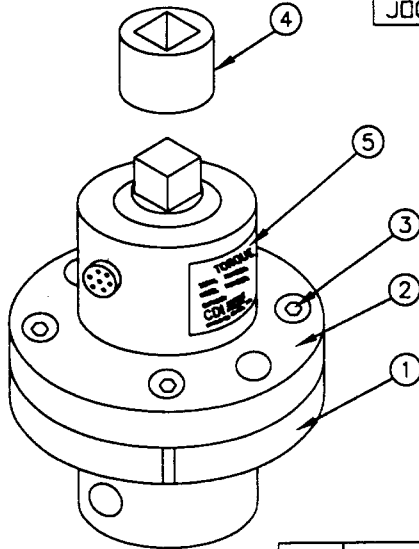
GSA

△ 2 FOR ASSEMBLY OF ITEMS 6, 8 & 9 SEE 61-101.
△ 1 FOR COMPLETE ASS'Y. OF ITEMS 1 THRU 9 SEE 61-115-0.
NOTES:

NOTE: UNCONTROLLED COPY

2001MRMH COMMERCIAL

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BY	LTR	DESCRIPTION	DATE	APPROVED
JOG	A	342-2-01 WAS 342-2-0	2-20-98	JOG

7			
6			
△ 5	342-24-61	LABEL, TRANSDUCER	1
4	342-40	SOCKET ADAPTER	1
3	10-168-19	SOCKET HEAD CAP SCREW 1/4-20, 1/2" LONG	4
2	342-2-01	TRANSDUCER 200 IN.OZ.	1
1	2000-225-5	SMALL TRANSDUCER ADAPTER	1
ITEM	PART NO.	DESCRIPTION	REQ'D

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .XX ±.01 ±1/2°
 .XXXX ±.005

CONSOLIDATED DEVICES, INC.
City of Industry, California

TORQUE TRANSDUCER KIT
(USED ON LOADERS)
2001-0-TTPL 200 IN.OZ. CDI

MATERIAL

FINISH

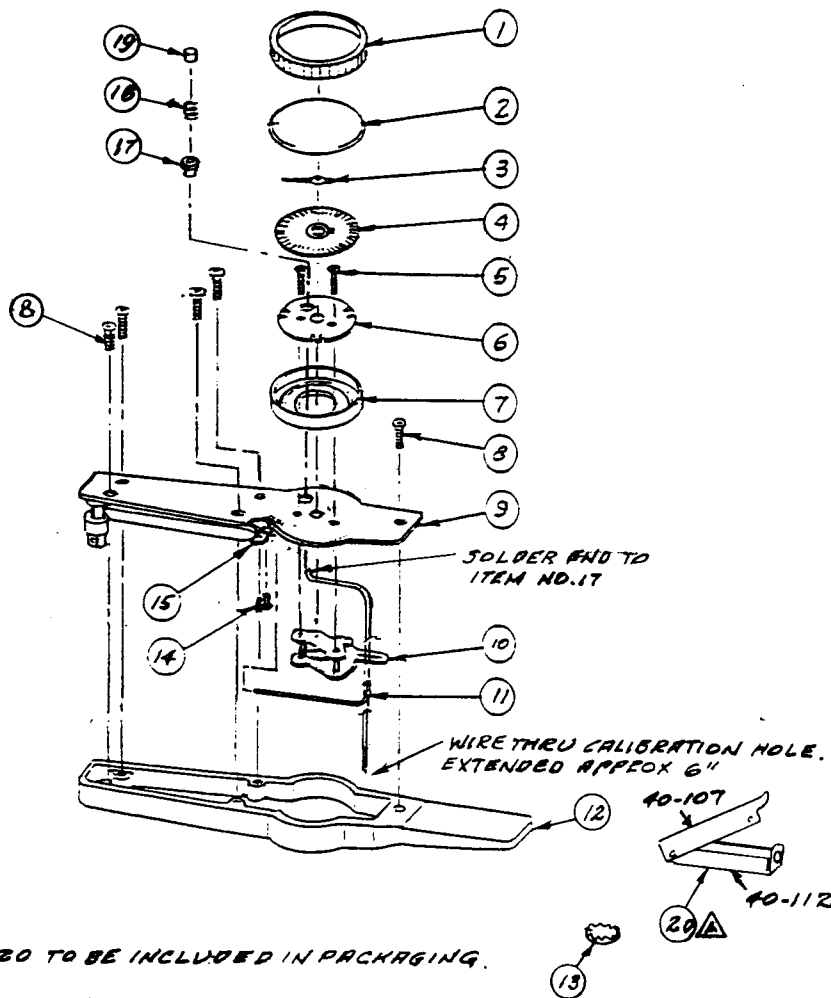
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	JOG	DATE	3-2-98	342-5-02L

- △ 2. LABEL MADE IN CDI.
1. CLEAN SURFACE ITEM 2 WITH FREON BEFORE APPLYING LABEL (ITEM 5)

NOTES:

NOTE: UNCONTROLLED COPY

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2. ITEMS 13 & 20 TO BE INCLUDED IN PACKAGING.

1. ITEM 20 NOT TO INCLUDE LIGHT BULB OR BATTERY AND NOT ASSEMBLED TO PLATE.

NOTE:

KEY BLUEPRINT SERVICE, INC. (818) 336-4409

NOTE: UNCONTROLLED COPY

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 8 WAS 10-111-9 ITEM 16 WAS 10-111-5	9/11/92	ZJS
JK	B	ITEM 9 WAS 238-127-1	4-7-93	ZJS
SP	C	REMOVE ITEM 16, ITEM 8 WAS 10-111-5	3-3-94	ZJS
A.W.V.	D	ITEM 9 WAS 238-130-2	8-14-96	ZJS

20	A	BATTERY HOUSING ASSY.	1
19	40-115	PLUNGER	1
18	10-105-2	SPRING	1
17	40-102	RETAINER, SPRING	1
16			
15	40-145	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MAGN. RD. HD.	2
13	10-103-2	BUTTON, PLUG	1
12	230-240-5	CASE	1
11	80-11-3	PUSH ROD	1
10	10-113	MOVEMENT	1
9	238-131-2	DR. PLATE & CHANNEL ASSY.	1
8	10-222-6	SCREW, SELF TAPPING, REAR	5
7	40-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-1	SCREW, MAGN, FLAT HD.	2
4	40-139-6	SCALE ASSY, ELECTRIC	1
3	40-18-2	POINTER	1
2	40-91	CRYSTAL	1
1	40-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 $\pm 1/32$.XX $\pm .01$ $\pm 15'$
 .XXX $\pm .005$

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH ELECTRIC (DANIELS)

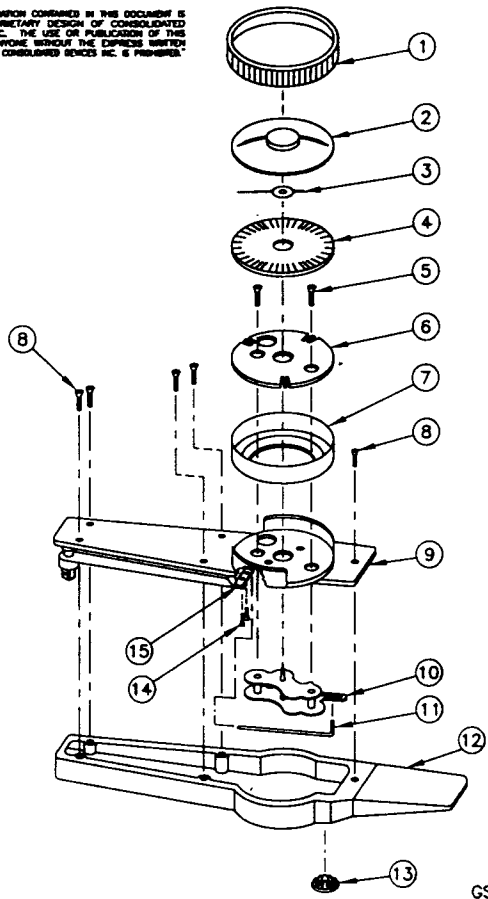
MATERIAL

FINISH

DRAWN ZJS	SCALE —	DRAWING NO.
APPROVED ZJS	DATE 6-7-91	230-50-11

Z90Z DIE

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GSA

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	X	ADD TAB NO. 28	8-3-99	Joy

31					
30					
29					
28	SEE SEPARATE DRAWING			KTC CMD0282	
27	48-208-1	238-85	0-250 IN.LB. 0-30 Nm	S.K 75025	
26	48-208-1	48-100-2	0-250 IN.LB. 0-280 CMKG	MATCO TWBDI-250	
25	48-208-1	238-216-13	0-250 IN.LB. 0-280 CMKG	PROTO 6177A	
24	48-208-1	238-207-13	0-30 Nm 0-250 IN.LB.	PROTO 6177NMA	
23	48-208-1	238-207-26	0-250 IN.LB. 0-30 Nm	ARMSTRONG 64-352	
22	48-208-1	238-216-21	0-280 CMKG 0-250 IN.LB.	URREA 6177-A	
21	48-408-1	238-245-70	0-35 Nm 0-300 IN.LB.	EUR/PALMERA Cod. 200.511	
20	48-208-1	238-207-62	0-250 IN.LB. 0-30 Nm	V. BELKNAP VB 2502LDIN	
19	48-208-1	238-241-62	0-25 FT.LB. 0-35 Nm	V. BELKNAP VB 252LDFN	
18	48-208-1	238-245-62	0-300 IN.LB. 0-35 Nm	V. BELKNAP VB 3002LDIN	
17	48-208-1	238-207-49	0-250 IN.LB. 0-30 Nm	USAG 823/30	
16	48-208-1	238-200-9	0-280 CMKG 0-280 dNm	H.WERNER 2502LDIN-HW	
15	48-208-1	238-245-68	0-35 Nm 0-300 IN.LB.	EUR/ACESA N° 3710.005	
14	48-208-1	238-216-65	0-280 CMKG 0-250 IN.LB.	C.D.I. 2502KLDIN	
13	48-208-1	238-207-53	0-250 IN.LB. 0-30 Nm	WRIGHT TOOL 3471	
12	48-208-1	238-216-42	0-280 CMKG 0-250 IN.LB.	CARLSON 2502KLDIN	
11	48-208-1	238-245-60	0-300 IN.LB. 0-350 CMKG	OLY 3500B4	
10	48-208-1	238-242-10	0-25 FT.LB. 0-350 CMKG	C.D.I.	
9	48-208-1	238-207-8	0-250 IN.LB. 0-30 Nm	WILLIAMS BTD-2-250	
8	48-208-1	238-207-29	0-250 IN.LB. 0-30 Nm	FACOM J250A	
7	48-208-31	238-245-10	0-300 IN.LB. 0-35 Nm	3002LDIN	
6	48-208-1	238-245-46	0-300 IN.LB. 0-35 Nm	CAT 9U5017	
5	48-208-1	238-252	0-200 IN.LB. 0-225 dNm	DANIELS	
4	SEE SEPARATE DRAWING			KTC CMD0282	
3	48-208-1	238-207-10	0-250 IN.LB. 0-30 Nm	C.D.I. 2502LDIN	
2	48-208-1	238-241-10	0-25 FT.LB. 0-35 Nm	C.D.I. 252LDFN	
1	48-208-1	238-245-10	0-300 IN.LB. 0-35 Nm	C.D.I. 3002LDIN	
TAB NO.	⊗	⊕	SCALE	RANGE	CUSTOMER

16				
15	40-145	CLAMP, PUSH ROD		1
14	10-110-1	SCREW, MACHINED ROUND HEAD		2
13	10-103-2	BUTTON PLUG		1
12	230-240-5	CASE		1
11	80-11-3	PUSH ROD		1
10	10-113	MOVEMENT		1
9	⊕	DRIVE, PLATE & GUARD ASSEMBLY		1
8	10-222-6	SCREW, SELF TAPPING - REAR		5
7	48-83	RING, BEZEL MOUNTING		1
6	40-82	PLATE, DIAL MOUNTING		1
5	10-109-3	SCREW, MACHINE FLAT HEAD		2
4	⊕	SCALE		1
3	48-18-1	POINTER		1
2	48-132	MEMORY POINTER ASSEMBLY		1
1	48-84	BEZEL		1
ITEM	PART NO.	DESCRIPTION		REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

FRACTIONS DECIMALS ANGLES
1/32 .001 .01
.0002 .005

MATERIAL

FINISH

CONOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
DIAL WRENCH 3/8 DR. (MEMORY) TORSION

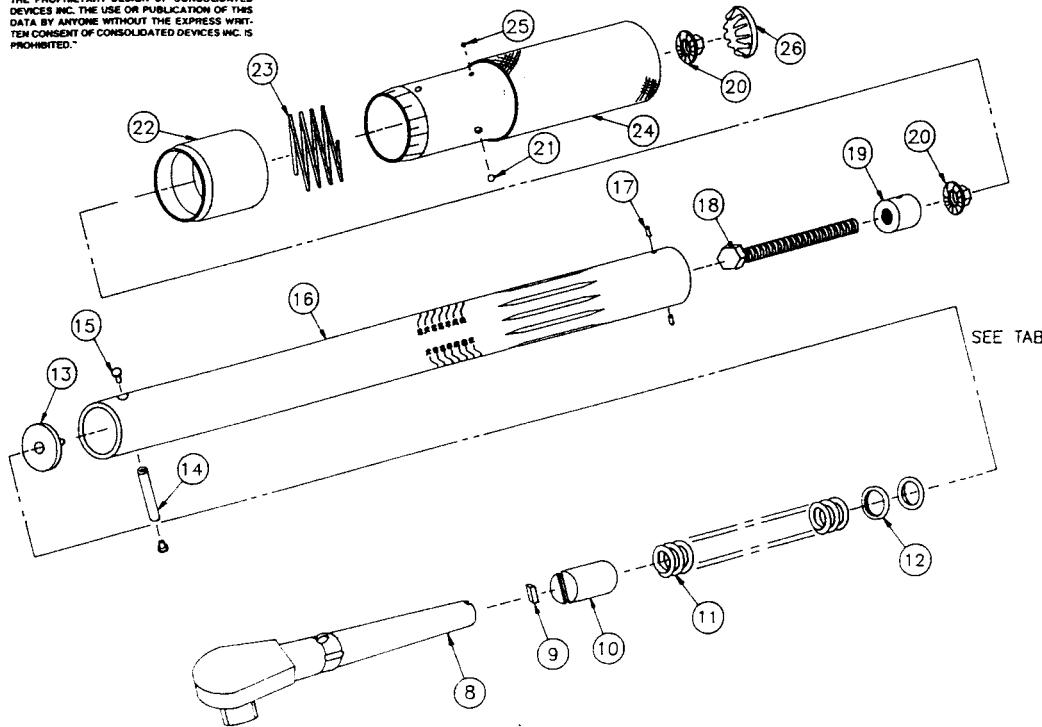
DRAWN Z.J.S. SCALE NONE DRAWING NO.
APPROVED Z.K. DATE 02-01-90 238-164-TAB

NOTES:

NOTE: UNCONTROLLED COPY

2502 LDIN
3002 LDIN (TORSION)
2521 DFN

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 PROHIBITED."



SEE TAB

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
227	A	ITEM 11 WAS 61-280, ITEM 16 WAS 61-250-3, ITEM 18 WAS 61-242-1	3-24-94	
A.M.V	B	ITEM 18 WAS 61-242-2	03-24-95	

NO.	QTY	PART NO.	DESCRIPTION	REQD
26		10-103-1	BUTTON PLUG	1
25		10-106-1	BALL (3/32)	1
24		61-248-2	HANDLE ASSEMBLY	1
23		61-249	SPRING, LOCK RING	1
22		▲	LOCK RING	1
21		10-106-8	BALL (1/8)	1
20		47-245-2	HEX FLANGE NUT	2
19		47-241	INSERT TUBE	1
18		61-142-2	ADJ. SCREW	1
17		10-106-5	BALL	2
16		61-250-3	TUBE (ROLLSTAMP)	1
15		61-263	RVET, PIVOT PIN	2
14		61-262	PIN, PIVOT	1
13		50-1	WASHER, THRUST	1
12		10-104-2	WASHER, FLAT	A/R
11		61-265	SPRING, TORQUE	1
10		50-16	CAM	1
9		50-18	PAWL	1
8		61-100-6	ARM AND DRIVE ASSEMBLY	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 $\pm .1/32$ XX $\pm .01$ $\pm 1/4^\circ$
 XXX $\pm .005$

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/8 DR. PLAIN
 61 SERIES 200 IN.LB.

MATERIAL

FINISH

-1	61-246-7	CDI	2002 MMH
TAB #	"A" ITEM # 22	CUSTOMER	MODEL #

DRAWN <i>227</i>	SCALE NONE	DRAWING NO.
APPROVED	DATE 7-29-93	61-341-TAB

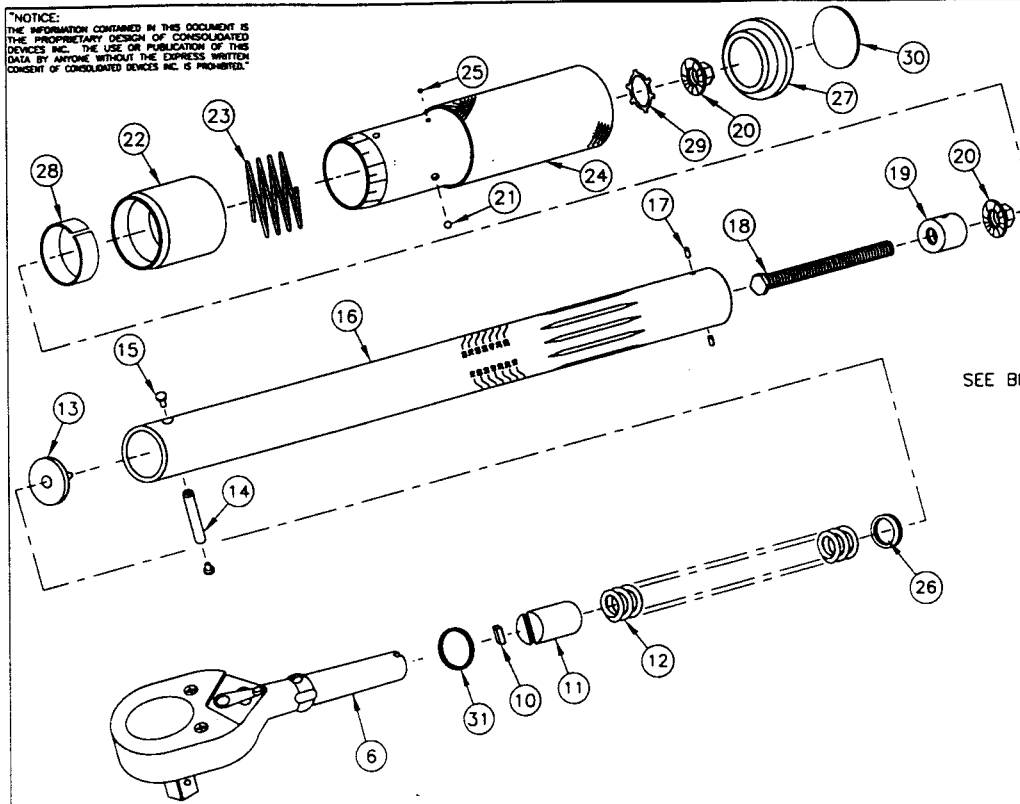
NOTES:

K&V BLUEPRINT SERVICE, INC. (818) 338-4409

NOTE: UNCONTROLLED COPY

2002 MMH

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	J	ADD TAB NO. -5, ITEM 27 WAS S/96-103-2	9-17-98	Jay

31	10-241-2	O-RING	1
30	10-203-1	CDI END PLUG (SMALL) ONLY FOR CDI	1
29	61-237	RETAINING RING-SELF LOCKING	1
28	47-338-2	NYLON BUSHING	1
27	96-103-2	END PLUG	1
26	10-104-2	WASHER, FLAT	1
25	10-106-1	BALL 3/32	1
24	61-448-2	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-1	ADJUSTING SCREW	1
17	10-106-5	BALL	2
16	61-250-23	TUBE, (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-265	SPRING, TORQUE	1
11	50-16	CAM	1
10	50-18	PAWL	1
9			
8			
7			
6	△	RATCHET BODY ASSEMBLY	1
5			
4			
3			
2			
1			

SEE BLOCK

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

- △ PRODUCT SHOULD BE MADE PER REV. "I" AFTER REV. "H" HAS BEEN PHASED OUT.
- △ USE ITEM 30 FOR CDI ONLY.
- △ IF 61-100-100 NOT AVAILABLE 61-215-0 CAN BE USED AS TEMPORARY REPLACEMENT.

NOTES:

-6				
-5	61-946-8	61-100-10	MOUNTZ	MTW 200i
△ -4	61-246-8	61-100-10	CDI	2002MRMH-QR
-3	61-274-2	61-100-10	WRIGHT TOOL	3478
-2	61-277-2	61-100-10	T & E	7293
△ -1	61-246-8	61-100-100	CDI	2002MRMH
TAB NO.	△ ITEM NO. 22	△ ITEM NO. 6	CUSTOMER	MODEL NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		
FRACTIONS	DECIMALS	ANGLES
:1/32	.01	:1/2°
MATERIAL		
FINISH		

CONSOLIDATED DEVICES, INC.
City of Industry, California

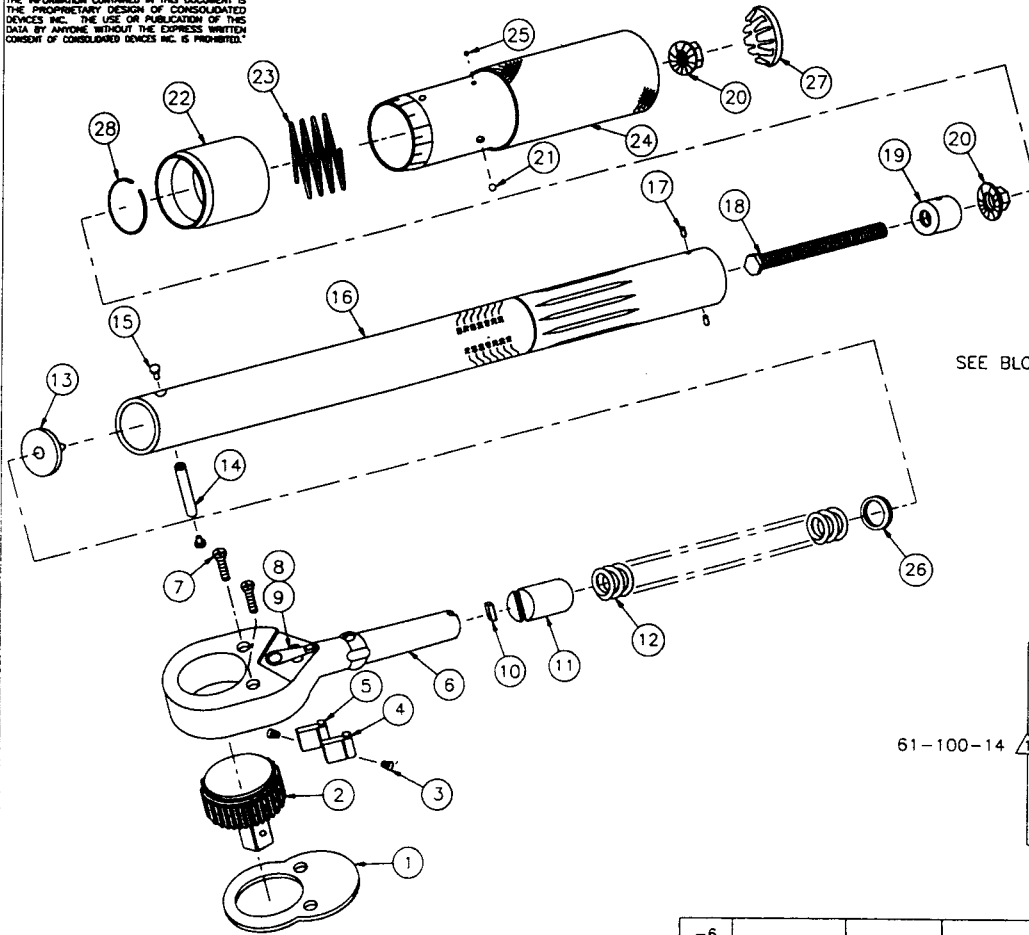
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. RATCHET
200 IN.LB. RATCHET BODY-OVAL

DRAWN <i>slj</i>	SCALE NONE	DRAWING NO.
APPROVED <i>Jay</i>	DATE 05-13-93	61-340-TAB

NOTE: UNCONTROLLED COPY

2002MRMH
2002MRMH-QR COMMERCIAL

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	NEW 18 WAS 61-142-3, NEW 26 WAS REV'D, A/P, AND NEW 28, MODEL NO. & REQ'D	12-5-96	Jay

29				
28	47-238-4	SPRING RING		1
27	10-103-1	BUTTON PLUG		1
26	10-104-2	WASHER, FLAT		1
25	10-106-1	BALL 3/32		1
24	61-348-12	HANDLE ASSEMBLY		1
23	61-249	SPRING, LOCK RING		1
22	△	LOCK RING		1
21	10-106-8	BALL 1/8		1
20	47-245-2	HEX, FLANGE NUT		2
19	61-241	INSERT, TUBE		1
18	61-142-1	ADJUSTING SCREW		1
17	10-106-5	BALL		2
16	61-256-2	TUBE, (ROLL STAMP)		1
15	61-263	RIVET, PIVOT PIN		2
14	61-262	PIN, PIVOT		1
13	50-1	WASHER, THRUST		1
12	61-265	SPRING, TORQUE		1
11	50-16	CAM		1
10	50-18	PAWL		1
9		REVERSING CAM		1
8		REVERSING LEVER		1
7		SCREW		2
6		RATCHET BODY		1
5		DOG-RIGHT		1
4		DOG-LEFT		1
3		SPRING		2
2		RATCHET WHEEL		1
1		PLATE		1

SEE BLOCK

61-100-14 △

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 ±.01 ±1/2°
±.0002 ±.005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. RATCHET
200 dNm

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	10-04-95	61-634-TAB

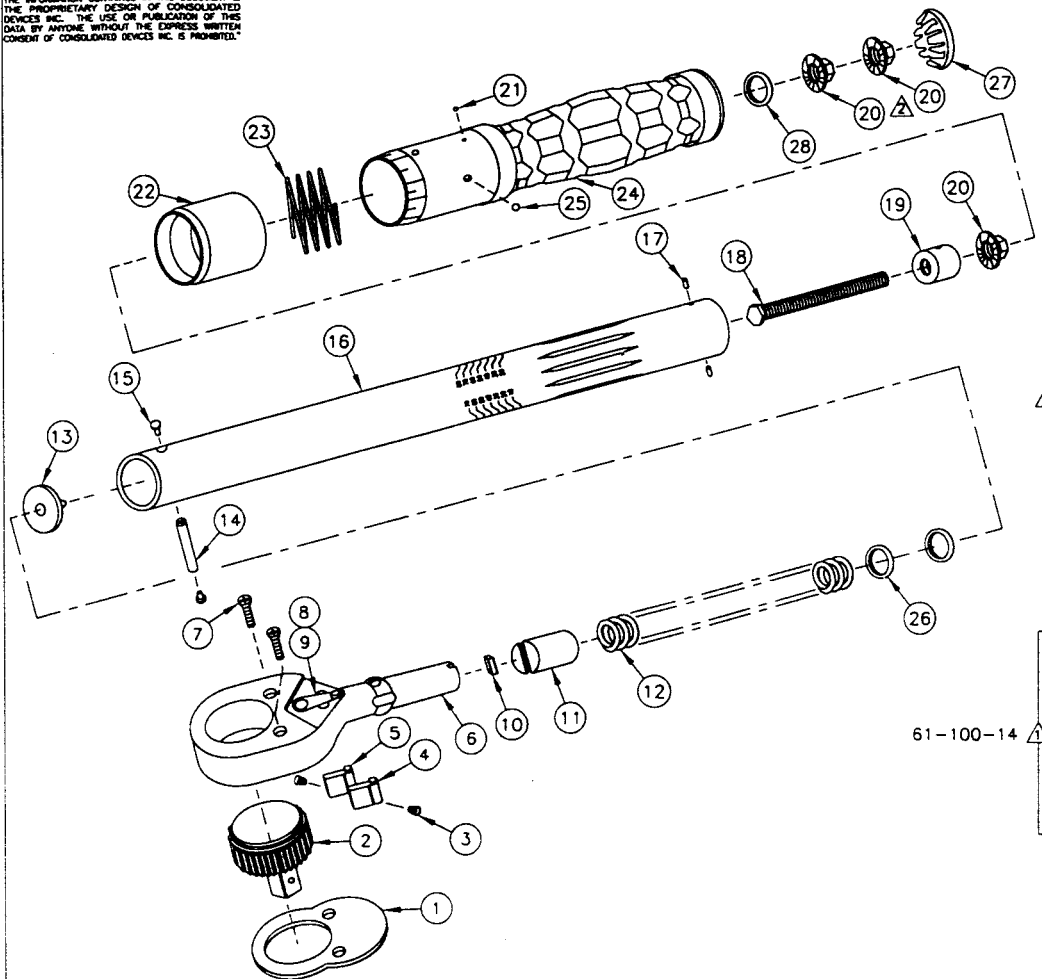
-6				
-5				
-4				
-3				
-2				
-1	61-646-8	CDI	2002NMRMH	
TAB NO.	△	ITEM NO.	22	CUSTOMER MODEL NO.

△ PURCHASED AS ASSEMBLY P/N 61-100-10 AND MODIFIED TO 61-100-14.
NOTES:

NOTE: UNCONTROLLED COPY

2002 NMRMH

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3. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.

⚠ ITEM 20 ASSEMBLY AS SHOWN.

⚠ PURCHASED AS ASSEMBLY 61-100-10 AND
MODIFIED TO 61-100-14.

NOTES:

-3					
-2	61-256-2	61-680-8	OLY	20QLN	
-1	61-256-2	61-276-8	EUR/ACESA	Nº 3700.002	
TAB NO.	⚠ ITEM NO. 16	⚠ ITEM NO. 22	CUSTOMER	MODEL NO.	

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	C	ITEM 20 WAS REQ'D. 2, ADD NOTES 2 & 3	8-14-98	Jay

29			
28	10-305	WASHER	1
27	10-103-1	BUTTON PLUG	1
26	10-104-2	WASHER, FLAT	A/R
25	10-106-1	BALL (3/32)	1
24	61-344-12	HANDLE ASSEMBLY (ROLL STAMP)	1
23	61-349	SPRING, LOCK RING	1
22	⚠	LOCK RING	1
21	10-106-8	BALL (1/8)	1
⚠ 20	47-245-2	HEX FLANGE NUT	3
19	61-241	INSERT, TUBE	1
18	61-142-3	ADJUSTING SCREW	1
17	10-106-5	BALL (5/32)	2
16	⚠	TUBE (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-265	SPRING, TORQUE	1
11	50-16	CAM	1
10	50-18	PAWL	1
9		REVERSING CAM	1
8		REVERSING LEVER	1
7		SCREW	2
6		RATCHET BODY	1
5		DOG, RIGHT	1
4		DOG, LEFT	1
3		SPRING	2
2		RATCHET WHEEL	1
1		PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGELS
±1/32 .001 .01 ±1/2°
.0002 .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION

MICRO. ADJ. WRENCH 3/8 DR. RATCHET
200 dNm & 173 IN.LB. - PLASTIC HANDLE

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	07-30-96	61-734-TAB

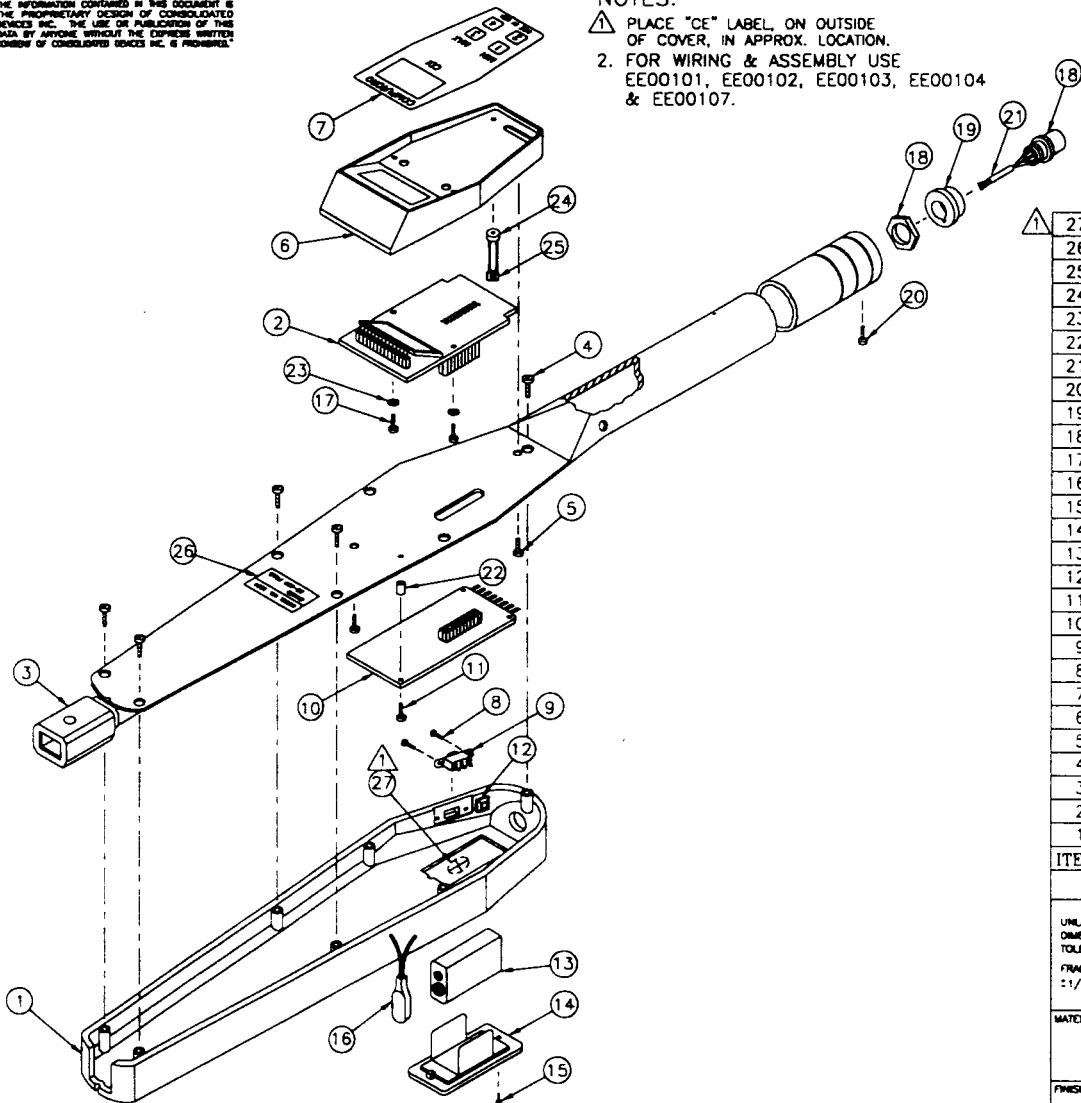
NOTE: UNCONTROLLED COPY

REF, CDI 2002NMRPH

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NOTES:

1. PLACE "CE" LABEL ON OUTSIDE OF COVER, IN APPROX. LOCATION.
2. FOR WIRING & ASSEMBLY USE EE00101, EE00102, EE00103, EE00104 & EE00107.



BY	LTR	DESCRIPTION	DATE	APPROVED
JG	B	ADDED NOTE 2.	11-30-98	Joy

27	950-99	CE LABEL	1
26	1300-50-2	MODEL NO. LABEL	1
25	344-16-1	PCB CONNECTOR	1
24	81-28	BUZZER	1
23	10-205-3	WASHER, NYLON	2
22	1300-4-2	SPACER 5/16 LONG	1
21	82-24-2	CABLE	1
20	10-101-26	SOCKET SETSCREW 8-32 UNC X 1/8	1
19	1300-82-33	ADAPTER	1
18	1100-77	RECEPTACLE WITH NUT & WASHER	1
17	10-126-18	PAN HEAD MACHINE SCREW 4-40 X 3/16	2
16	81-37	BATTERY PLUG	1
15	10-227-1	FLAT HEAD TAPPING SCREW	1
14	1300-82-19	COVER & CLIP ASSEMBLY	1
13	81-6	BATTERY 9V	1
12	44-9	MOUNTING DEVICE	1
11	10-126-7	PAN HEAD MACHINE SCREW 4-40 X 1/2	1
10	1300-100	PC BOARD-ANALOG	1
9	1100-20	SWITCH	1
8	10-109-17	FLAT HEAD MACHINE SCREW	2
7	1300-133-6	KEY PAD	1
6	1300-1	HOUSING	1
5	10-225-9	BUTTON HEAD SOCKET CAP SCREW 8-32 NC X 5/16	2
4	10-235-4	SCREW, TAPPING 10 X 3/4	5
3	1300-82-53	BEAM, PLATE, WIRING ASSEMBLY (STRAIN GAGE)	1
2	1300-110	PC BOARD-DIGITAL	1
1	1300-82-32	CASE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGELS
 :1/32 .001 .01 :1/2°

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

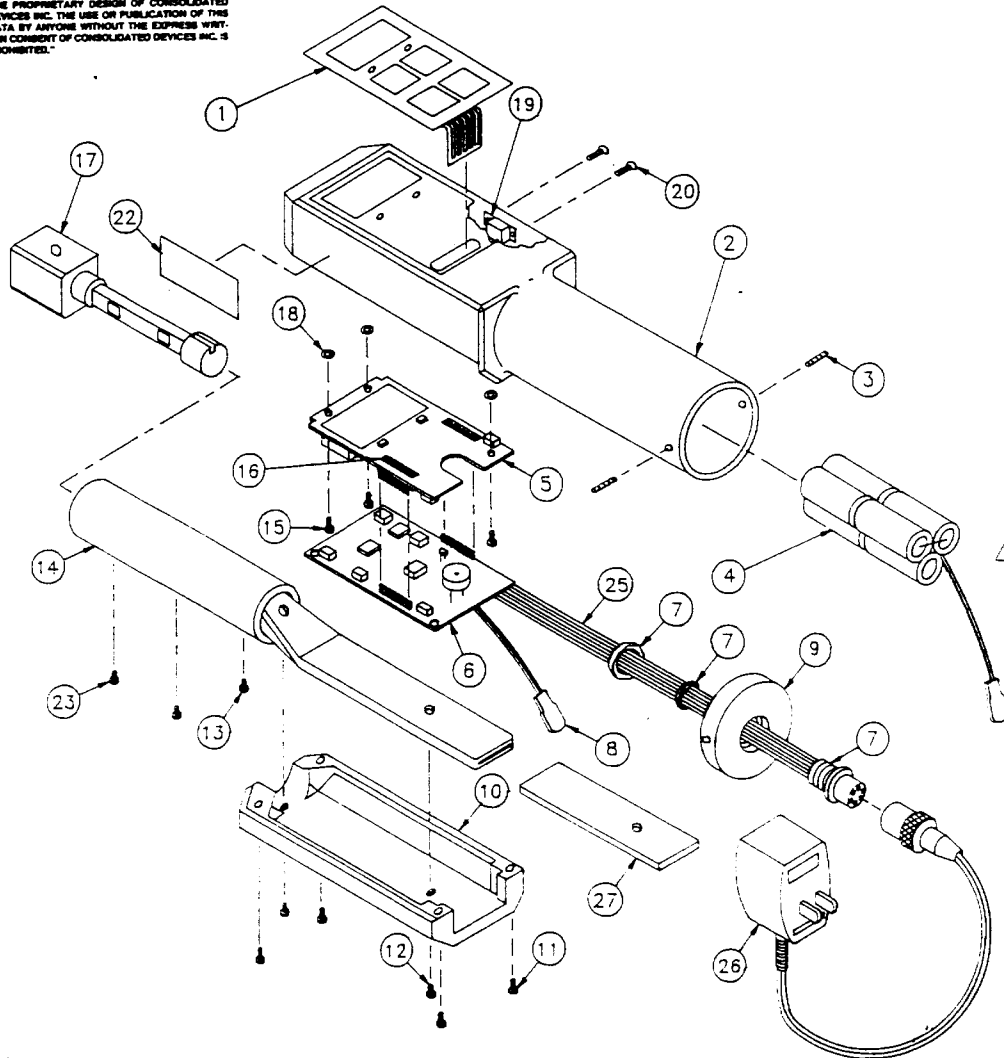
EXPLODED ILLUSTRATION
 COMPUTORQ
 RANGE 200 Nm

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Joy	DATE	12-21-98	1300-82-8

2003 CF - I

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1. IF NECESSARY CUT SCREWS TO .42 LENGTH.

NOTES:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED

27	1100-140	COVER PAD		1
26	1100-7	AC ADAPTER		1
25	2000-100-36	RIBBON CABLE (10 IN.)		1
24				
23	10-225-17	BUTTON HEAD SOCKET CAP SCREW (8-32 X 1/4)		2
22	1100-116	LABEL		1
21				
20	10-109-17	FLAT HEAD MAC. SCREW (2-56 X 3/16) SLOTTED		2
19	1100-20	SWITCH		1
18	10-205-3	WASHER (NYLON) 4-40		3
17	1100-100-1	SENSOR BEAM ASSEMBLY		1
16	1100-105-2	NYLON STRIP		2
15	10-225-18	BUTTON HEAD SOCKET CAP SCREW (4-40 X 1/4)		3
14	1100-124	TUBE & SLEEVE ASSEMBLY		1
13	10-225-14	BUTTON HEAD SOCKET CAP SCREW (6-32 X 1/4)		1
12	10-128-22	HEX. SOCKET FLAT HEAD SCREW (6-32 X 1/2)		2
11	10-225-12	BUTTON HEAD SOCKET CAP SCREW (8-32 X 1/2)		4
10	1100-118-2	COVER (PRINTED)		1
9	1100-22	RETAINER, RECEPTACLE		1
8	8T-37	BATTERY PLUG		1
7	1100-77	FEMALE RECEPTACLE, NUT & WASHER		1
6	1100-52-1	PC BOARD ASSEMBLY, ANALOG MITUTOYO * R SER		1
5	1100-24-3	PC BOARD ASSEMBLY, DIGITAL R SER		1
4	1100-5	BATTERY PACK		1
3	10-101-44	SOCKET SET SCREW (4-40 X 5/16 LONG)		2
2	1100-15-2	HOUSING		1
1	1100-27	DISPLAY BOARD (MITUTOYO) KEYPAD		1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = .1/32 .XX = .01 = 1/4°
 XXX = .005

MATERIAL

FINISH

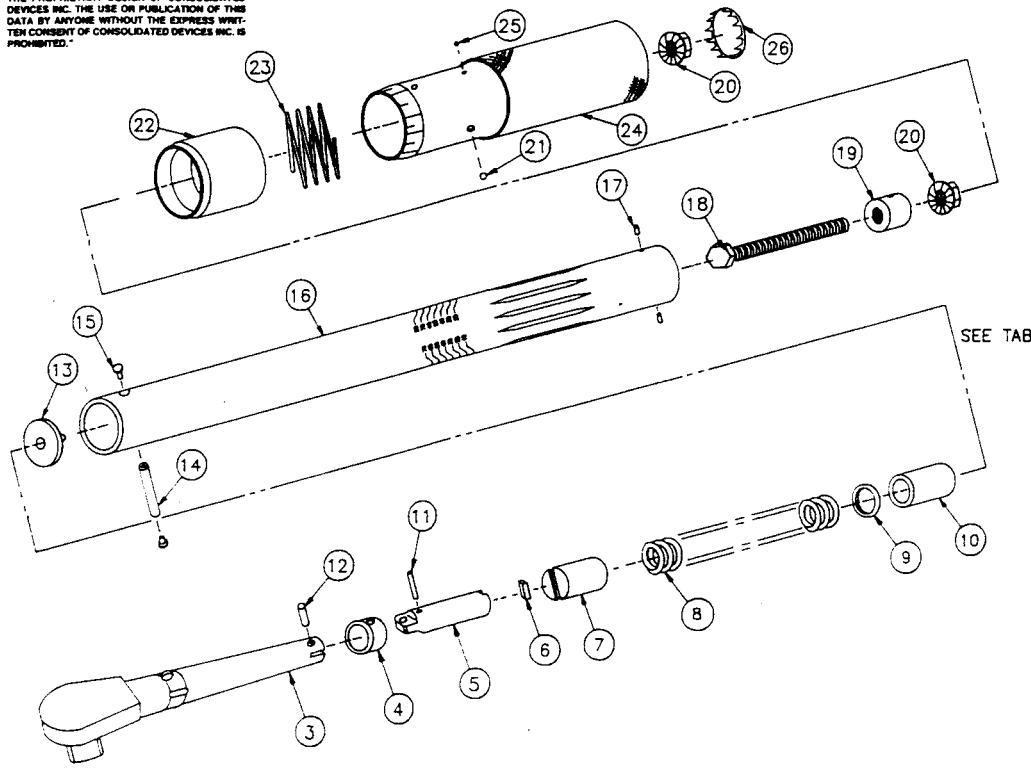
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 200 FT.LB. P.E.T.

SERIES 1100		SER-R	
DRAWN	SCALE	NONE	DRAWING NO.
APPROVED	DATE	1-13-74	1100-0-16

2003-F-PET-2

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SEE TAB

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
 NOTES:

-1	47-246-15	CDI	2003 MFMH	
TAB #	"A" ITEM # 22	CUSTOMER	MODEL #	

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
GA	A	ITEM 5 WAS 61-62	4-8-94	<i>[Signature]</i>
A.M.V.	B	ITEM 18 WAS 47-242-2	03-24-95	<i>[Signature]</i>

ITEM #	QTY	DESCRIPTION	REQUIREMENT
26	10-103-3	BUTTON PLUG	1
25	10-106-1	BALL (3/32)	1
24	47-248-1	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	A	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT TUBE	1
18	47-342-2	ADJ. SCREW	1
17	47-240	PIN	2
16	96-204-2	TUBE (ROLLSTAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	1
9	10-104-1	WASHER, FLAT	A/R
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	45-233-2	ARM & DRIVE ASSMEBLY	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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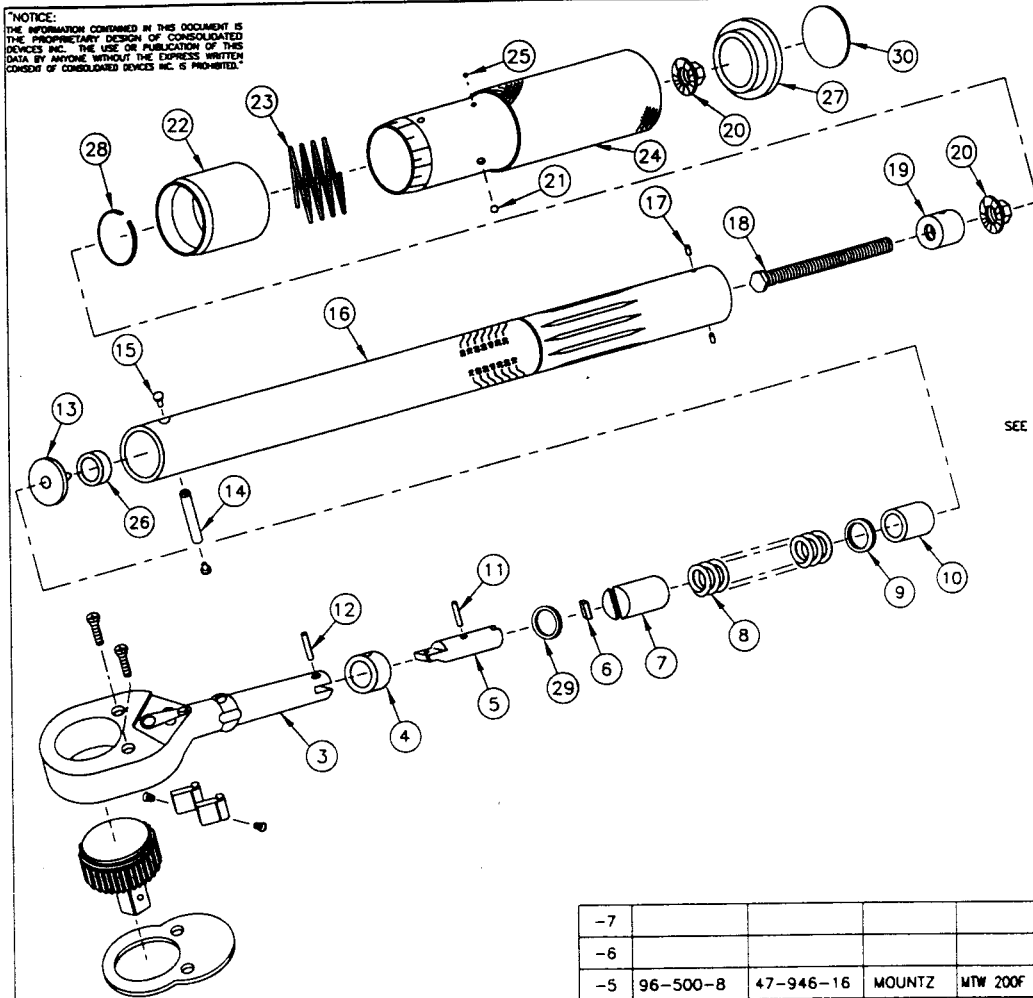
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 .XX ± .01 ± 1/4°
 .XXX ± .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. PLAIN
 96 SERIES 200 FT.LB.

DRAWN <i>[Signature]</i>	SCALE NONE	DRAWING NO.
APPROVED <i>[Signature]</i>	DATE 7-29-93	96-237-TAB

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- △ USE ITEM 30 FOR CDI ONLY.
 - △ FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE DWG. 61-33.
 - 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
- NOTES:

△	-7				
	-6				
	-5	96-500-8	47-946-16	MOUNTZ	MTW 200F
△	-4	96-500-8	47-246-16	CDI	2003MFRMH-QR
	-3	96-500-8	47-275-16	GRAY TOOL	MFR 200HD
	-2	96-500-8	47-258-16	V. BELKNAP	VB 2003MFRMH
△	-1	96-500-80	47-246-16	CDI/McMASTER	2003MFRMH-CDI
	TAB NO.	△ ITEM NO. 3	△ ITEM NO. 22	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	F	ADD TAB NO. -5, ITEM 27 WAS 10-103-3	9-25-98	Jay

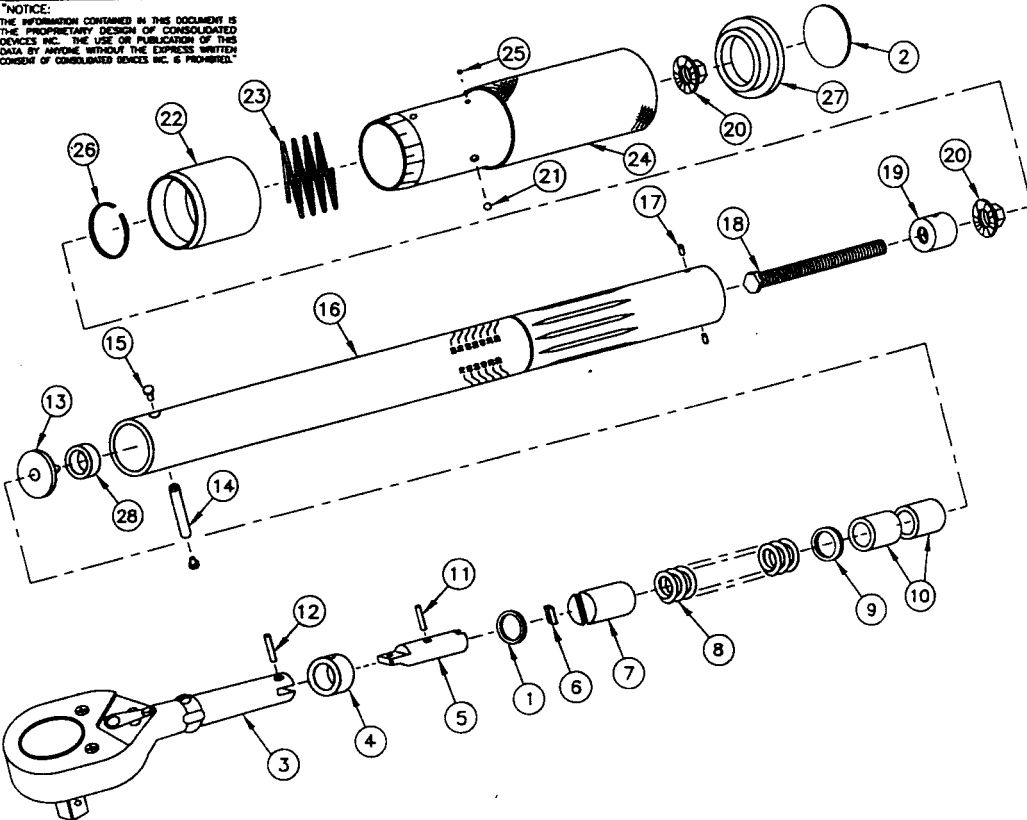
32			
31			
△ 30	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
29	10-241-1	O-RING	1
28	47-238-1	SPRING RING	1
27	96-103-3	END PLUG SNAP-ON, CDI	1
26	95-28-4	SPACER (.35 LONG)	1
25	10-106-1	BALL (3/32)	1
24	47-248-1	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
SEE TAB 22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	96-204-2	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
△ 11	10-102-24	PIN, FULCRUM	1
10	95-28-2	SPACER (1.00 LONG)	1
9	10-104-1	WASHER, FLAT	A/R
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
△ 5	61-61	SECONDARY ARM	1
△ 4	61-60	FULCRUM	1
△ 3	△	RATCHET BODY ASSEMBLY	1
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/32 .001 .01 1/2°			
MATERIAL			
FINISH			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION MICRO ADJ. WRENCH 1/2 DR. RATCHET 200 FT.LB.			
DRAWN	Z.J.S.	SCALE	NONE
APPROVED	Jay	DATE	12-18-91
DRAWING NO.			96-233-TAB

NOTE: UNCONTROLLED COPY

SECONDARY ARM 2003 MFRMH - CDI
 2003 MFRMH - QR

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▲ USE ITEM 2 FOR CDI ONLY.
 ▲ PURCHASED AS ASSEMBLY 96-500-8.
 ▲ FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE DWG. 61-33.
 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
 NOTES:

-5			
-4			
-3			
▲ -2	47-646-14	CDI	2003NMRMH
-1	47-270-14	CARLSONS	2003NMRMH
TAB NO.	▲ ITEM NO. 22	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	D	ITEM 12 WAS 45-250, ITEM 18 WAS 47-342-5, ITEM 27 WAS 10-103-3, ADD NOTE 4, ITEMS 1 & 2	6-7-99	Jay

30			
29			
28	95-28-4	SPACER (.35 LONG)	1
27	96-103-3	END PLUG SNAP-ON, CDI	1
26	47-238-1	SPRING RING	1
25	10-106-1	BALL (3/32)	1
24	47-348-11	HANDLE ASSEMBLY (ROLL STAMPED)	1
23	47-249	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-4	ADJUSTING SCREW (2.00 LONG)	1
17	47-240	PIN	2
16	96-208-3	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
▲ 11	10-102-24	PIN, FULCRUM	1
10	95-28-2	SPACER (1.00 LONG)	2
9	10-104-1	WASHER, FLAT	7
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
▲ 5	61-62	SECONDARY ARM	1
▲ 4	61-60	FULCRUM	1
▲ 3	96-500-8	RATCHET BODY ASSEMBLY	1
▲ 2	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
▲ 1	10-241-1	O-RING	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
1/32 .001 .01 1/2°

MATERIAL

FINISH

CONSOIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1/2 DR. RATCHET
200 Nm & 140 FT.LB.

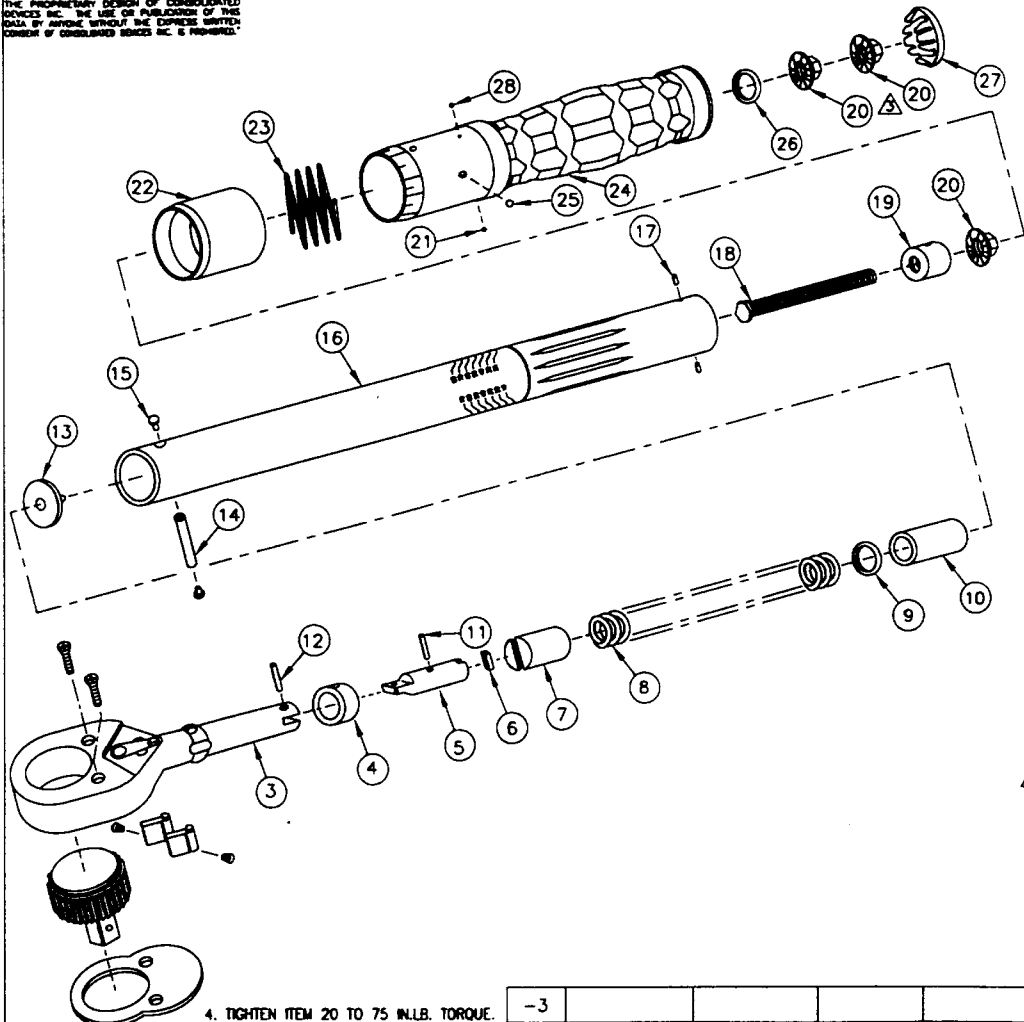
DRAWN	SCALE	NONE	DRAWING NO.
APPROVED	DATE	06-16-95	96-635-TAB

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2003 NMRMH

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	C	ITEM 20 WAS REQ'D. 2, ADD NOTES 3 & 4	2-14-98	Jay



4. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.

- ⚠ ITEM 20 ASSEMBLY AS SHOWN.
 - ⚠ PURCHASED AS ASSEMBLY 96-500-8.
 - 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
- NOTES:

-3				
-2	96-208-3	47-680-14	OLY	200QLN
-1	96-208-3	47-276-14	EUR/ACESA	Nº 3700.010
TAB NO.	⚠ ITEM NO. 16	⚠ ITEM NO. 22	CUSTOMER	MODEL NO.

29			
28	10-106-2	BALL (.1094 DIA.)	1
27	10-103-3	BUTTON PLUG	1
26	10-304	WASHER	1
25	10-106-5	BALL (5/32)	1
24	47-344-17	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22	⚠	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	3
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW	1
17	47-240	PIN	2
16	⚠	TUBE (ROLL STAMP)	1
15	45-92	RVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	1
9	10-104-1	WASHER, FLAT	A/R
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	96-500-8	RATCHET BODY ASSEMBLY	1
2			
1			
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGELS ± 1/32 .001 ± .01 ± 1/2° .0001 .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION	
FINISH		MICRO ADJ. WRENCH 1/2 DR. RATCHET 200 Nm & 140 FT.LB. - PLASTIC HANDLE	
DRAWN	A.M.V.	SCALE	NONE
APPROVED	Jay	DATE	07-29-96
			DRAWING NO. 96-735-TAB

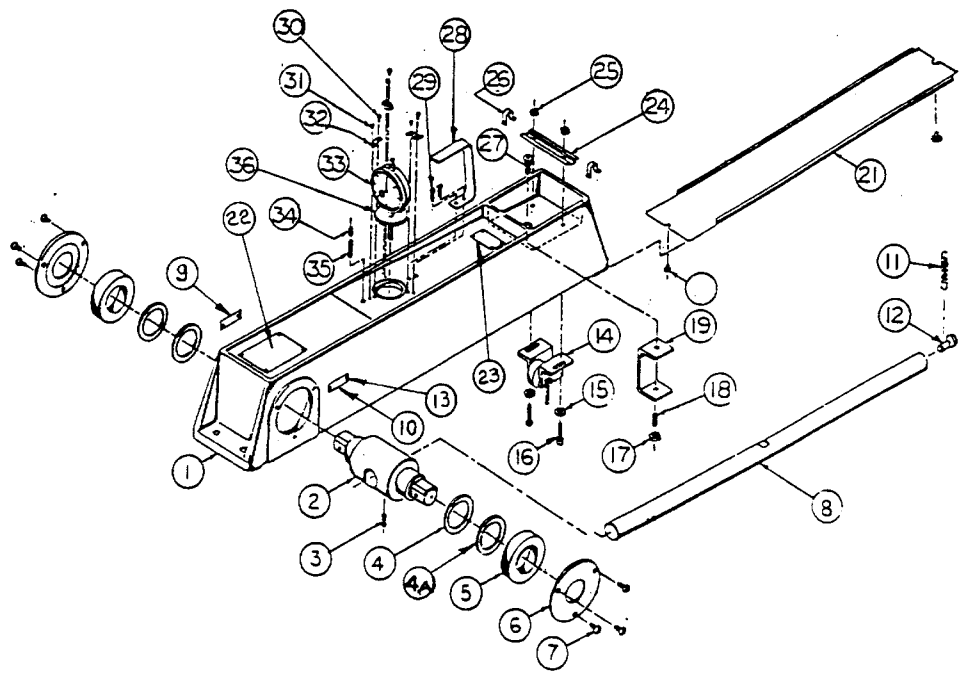
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REF. CDI 2003NMRPH

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ADD ITEMS 9, 10, 13, 22 & 23	03-07-95	727
A.M.V.	B	ITEM 7 WAS REQ'D. 6, DELETE ITEM 20 (10-130-0)	8-21-96	727

INDEX NO.	PART NO.	DESCRIPTION	REQD.
4A	65-66	SPACER, SHAFT	2
36	65-111	BASE ASSY., INDICATOR	1
35	10-101-1	SOC. SET SCR. OVERLOAD STOP	1
34	10-101-19	SOC. SET SCREW, OVERLOAD STOP INDIC	1
33	65-83-9	INDICATOR ASSY.	1
32	10-144	CLAMP, INDICATOR	3
31	10-142	DRIVE SCREW, INDICATOR	3
30	10-148	THUMB SCREW, INDICATOR	3
29	10-125-3	HEX. HD. MACH. SCREW	2
28	65-52	HANDLE	1
27	10-128-1	FL. HD. SOC. CAP SCREW	1
26	65-47-3	CLIP, ADAPTER RETAINER	2
25	10-138-2	HEX. NUT	2
24	65-34	ADAPTER, RETAINER	1
23	140-28-2	NAME PLATE	1
22	10-174	CONVERSION LABELS	1
21	65-35	BOTTOM COVER	1
20			
19	65-10	BEAM STOP	1
18	10-101-32	SOC. SET SCREW, BEAM STOP	1
17	10-138-3	HEX. NUT, BEAM STOP	1
16	10-110-4	RD. HD. MACH. SCREW	2
15	10-149-2	WASHER FLAT, BRNG. BRACKET	2
14	65-86	BEARING BRACKET ASSY.	1
13	10-142	DRIVE SCREW	12
12	10-132	RIVET, BEAM	1
11	10-131-1	SPRING BEAM SUPPORT	1
10	65-65	PLATE, TORQUE INDICATION LEFT HAND	1
9	65-64	PLATE, TORQUE INDICATION RIGHT HAND	1
8	65-4-3	BEAM	1
7	10-126-1	PHIL. HD. MACH. SCREW	8
6	65-6	BEARING RETAINER, SHAFT	2
5	10-133-1	BALL BEARING, SHAFT	2
4	10-146-32-4	SHIM, SHAFT	AR.
3	10-101-19	SOC. SET SCREW, SHAFT	1
2	65-154	SHAFT	1
1	65-84	HOUSING ASSY.	1



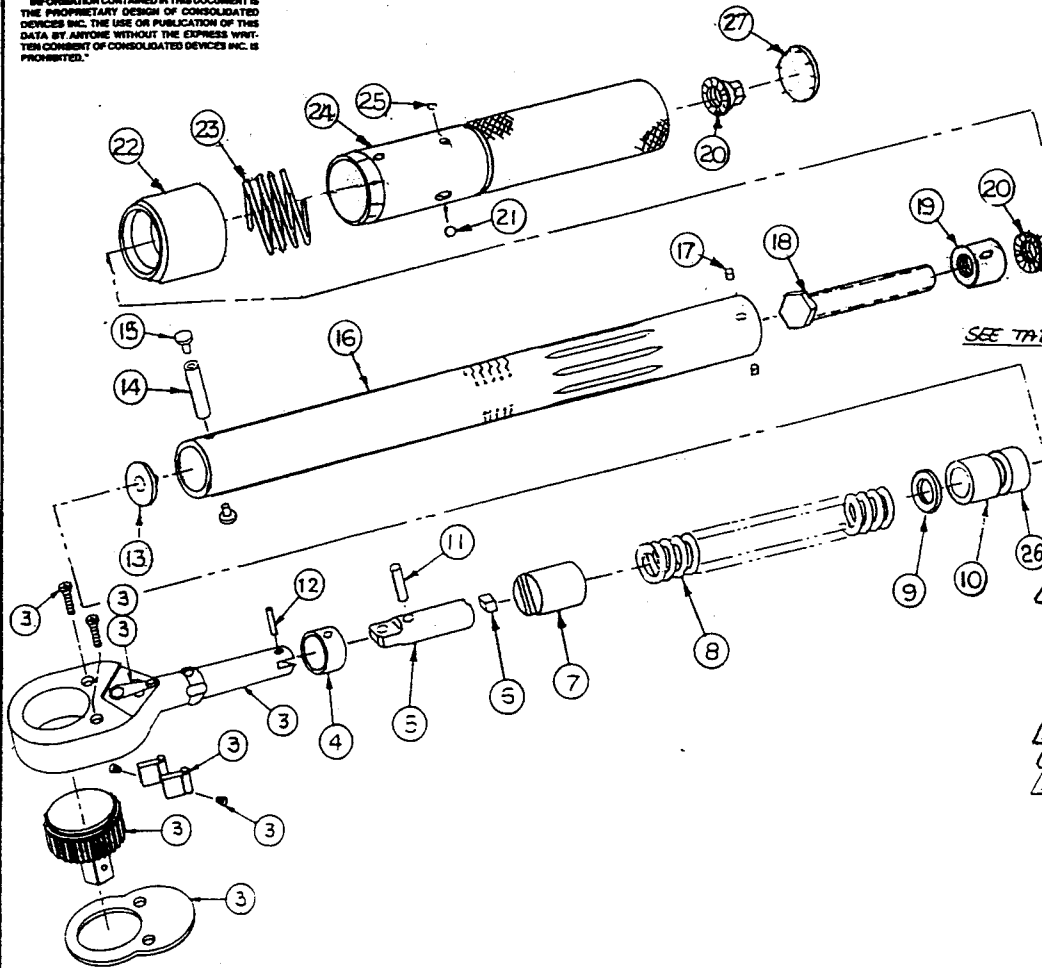
CODE IDENT	PART NO.	DESCRIPTION	REQD.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32" ± .01" ± 1/2°			
EXPLODED ILLUSTRATION TYPE IA, MODEL 200-PF, 2400-PI			
DRAWN 2/5		SCALE —	DRAWING NO.
APPROVED [Signature]		DATE 7-28-97	65-120

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SEE TAB

- △ PURCHASED AS ASS'Y. P/N 96-500-8
- ② FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE DWG. 67-33
- 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB

NOTE

2	47-446-14	CGI	303 KMRMH
1	47-280-14	OLY	2000 QLM
TAB No.	△ ITEM # 22	CUSTOMER	MODEL No.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ADD △, OMIT ITEMS 1 & 2, △ WAS 45-93-1	04-06-95	<i>[Signature]</i>
A.M.V.	B	ADD ITEM 26, ITEM 5 WAS 61-61	06-21-95	<i>[Signature]</i>
A.M.V.	C	ADD TAB NO. 2	10-04-95	<i>[Signature]</i>

27	10-103-3	BUTTON PLUG	1
26	95-28-2	SPACER	1
25	10-106-1	BALL (3/32)	1
24	47-448-1	HANDLE ASS'Y. (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	70-106-B	BALL (1/8)	1
20	47-225-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	LOAD SCREW	1
17	47-240	PIN	2
16	96-206-3	TUBE, (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	1
9	10-104-1	WASHER, FLAT	1
8	95-93	SPRING, TORQUE	1
7	45-251	CRM	1
6	45-253-1	RAWL	1
5	61-62	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	96-500-8	RATCHET BODY ASS'Y.	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

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 - 1/32 XX = .01 ± 1/8°
 XXX = .005

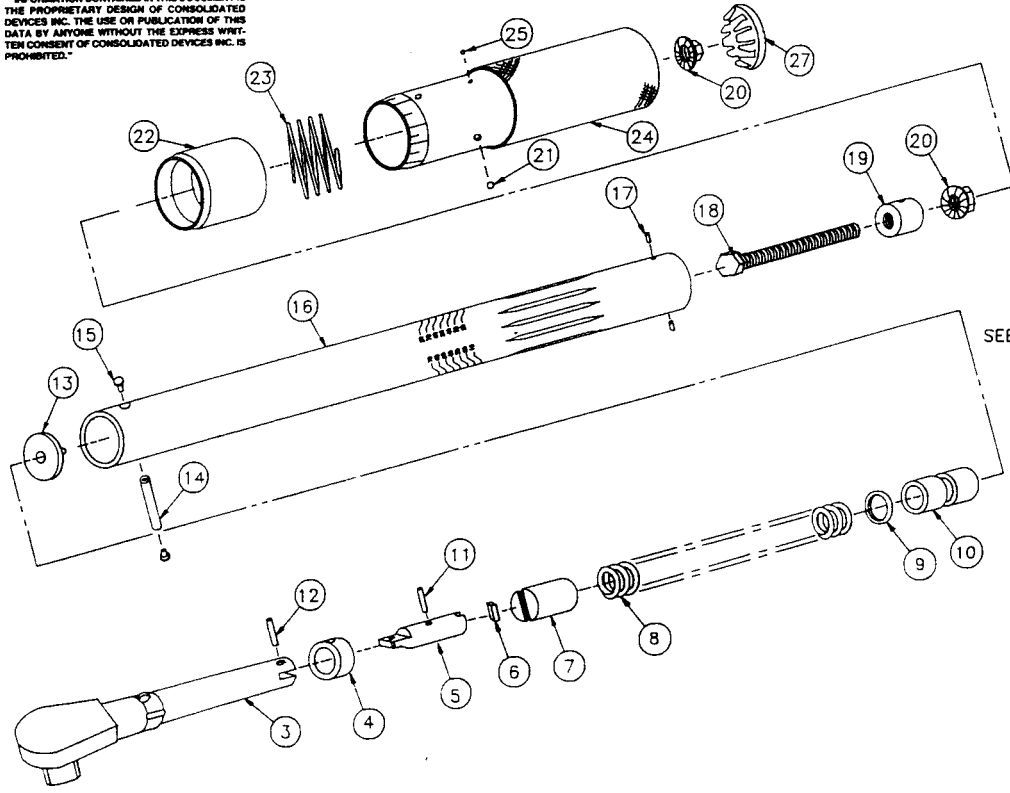
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. RATCHET
 20 KgM

DRAWN A. M. V.	SCALE —	DRAWING NO.
APPROVED <i>[Signature]</i>	DATE 03-10-95	96-535-TAB

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ITEM 18 WAS 47-242-1	03-24-95	<i>[Signature]</i>
A.M.V.	B	ITEM 5 WAS 61-62, ITEM 6 WAS 45-253-1, ITEM 8 WAS 96-245	07-10-95	<i>[Signature]</i>

27	10-103-3	BUTTON PLUG	1
26			
25	10-106-1	BALL (3/32)	1
24	47-248-4	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	A	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT TUBE	1
18	47-342-1	ADJ. SCREW	1
17	47-240	PIN	2
16	96-204-9	TUBE (ROLLSTAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	2
9	10-104-1	WASHER, FLAT	A/R
8	95-245	SPRING, TORQUE	1
7	45-251	CAM	1
6	46-353-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	45-233-2	ARM AND DRIVE ASSEMBLY	1
2			
1			

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 XX ± .01 ± 1/2° XXX ± .005</small>	CONSOLIDATED DEVICES, INC. City of Industry, California		
	EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 1/2 DR. RATCHET 96 SERIES 2500 IN.LB.		
MATERIAL			
FINISH			
DRAWN	<i>22/</i>	SCALE	NONE
APPROVED	<i>[Signature]</i>	DATE	10-28-94
			96-243-TAB

-1	47-246-7	CDI	2500 MMH
TAB #	ITEM # 22	CUSTOMER	MODEL #

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

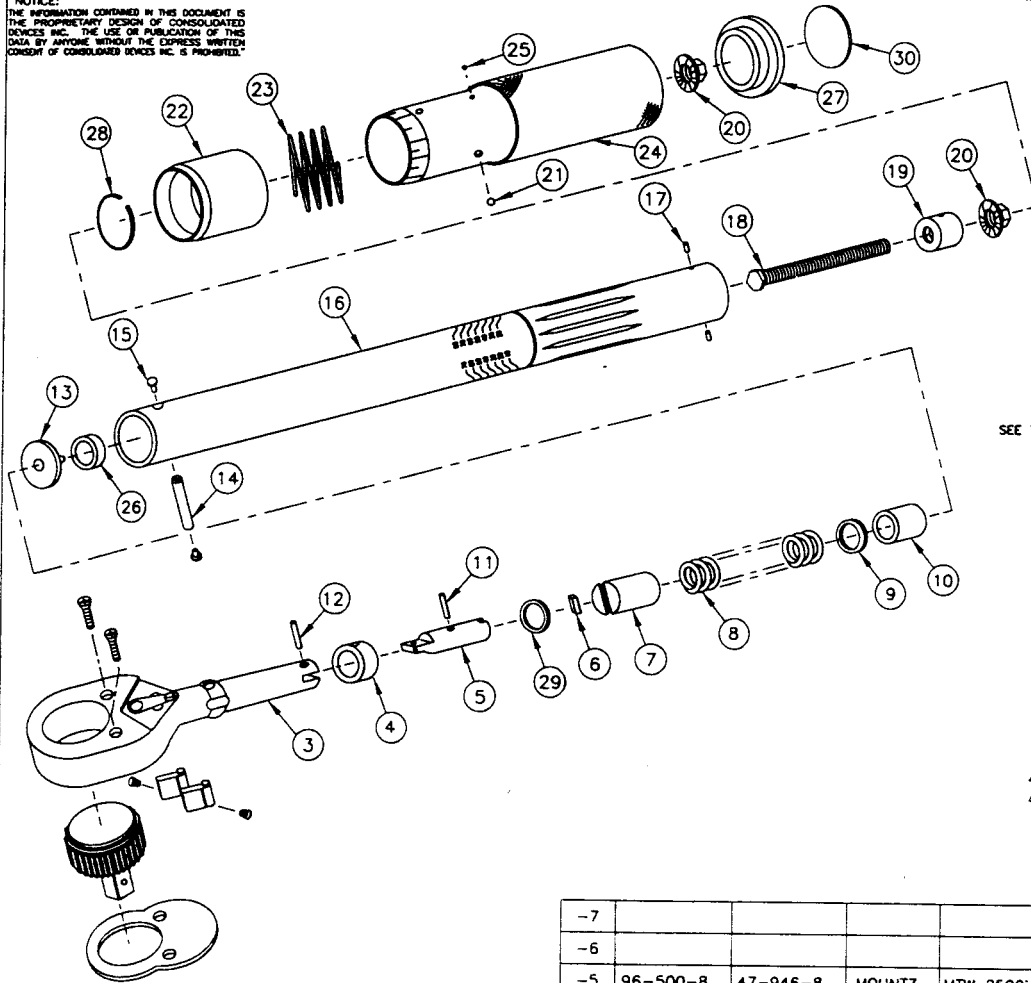
NOTES:

K&V BLUEPRINT SERVICE, INC. (818) 336-4409

NOTE: UNCONTROLLED COPY

25003MMH

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- 4 USE ITEM 30 FOR CDI ONLY.
3 FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE DWG. 61-33.
1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
NOTES:

-7				
-6				
-5	96-500-8	47-946-8	MOUNTZ	MTW 2500i
4 -4	96-500-8	47-246-8	CDI	25003MRMH-OR
-3	96-500-8	47-273-8	WILLIAMS TOOL	STW-3RCA
-2	96-500-8	47-259-8	WRIGHT TOOL	4479
4 -1	96-500-80	47-246-8	CDI	25003MRMH
TAB NO.	4 ITEM NO. 3	4 ITEM NO. 22	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	F	DELETE NOTE 2, ITEMS 1 & 2, ITEM 3 WAS 45-93-1, ITEM 10 WAS REQ'D. 2, ITEM 12 WAS 45-250, ITEM 18 WAS 47-342-1, ITEM 27 WAS 10-103-3, 25003MRMH-OR WAS 25003MRMH-PO, ADD ITEMS 26, 28, 29, 30, NOTES 3, 4, TAB NO. -5 & REDRAWN	9-25-98	Joy

32			
31			
4 30	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
29	10-241-1	O-RING	1
28	47-238-1	SPRING RING	1
27	96-103-3	END PLUG SNAP-ON, CDI	1
26	95-28-4	SPACER (.35 LONG)	1
25	10-106-1	BALL (3/32)	1
24	47-248-4	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	4	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-2	ADJUSTING SCREW (2.75 LONG)	1
17	47-240	PIN	2
16	96-204-9	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
4 11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER (1.38 LONG)	1
9	10-104-1	WASHER, FLAT	5
8	95-245	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
4 5	61-61	SECONDARY ARM	1
4 4	61-60.	FULCRUM	1
3	4	RATCHET BODY ASSEMBLY	1
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .XX ±.01 ±1/2°
XXXX.005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO ADJ. WRENCH 1/2 DR. RATCHET
2500 IN.LB.

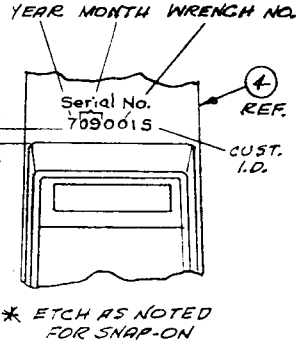
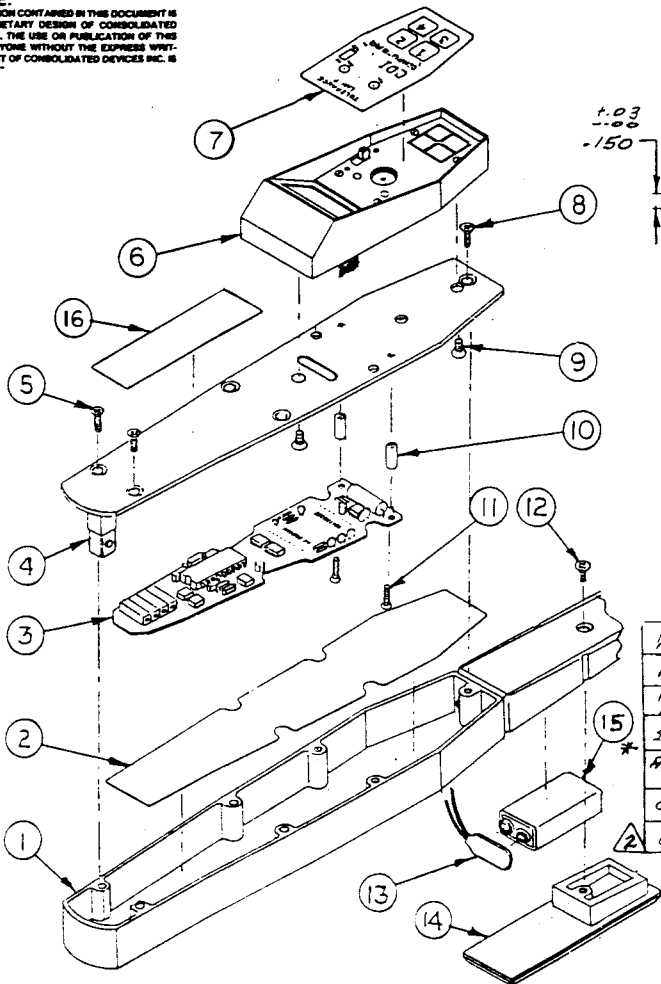
DRAWN	slg	SCALE	NONE	DRAWING NO.	96-241-TAB
APPROVED	Joy	DATE	07-29-93		

NOTE: UNCONTROLLED COPY

25003MRMH

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NERA	81-43-9
MOUNT	81-89
NASCO MCA-2301	81-91-2
SNAP-ON	81-77-1
ARMSTRONG G4-561	231-54
C.O.I.	81-45-1
CUST.	PART NO.

1. FOR MAIN PC BOARD, LCD BOARD, & KEYBOARD WIRING ASSY. SEE 81-85

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ADD ITEM 7 LABEL COLUMN		

16	81-54	INSTRUCTION LABEL	1
15	81-6	BATTERY (9V)	1
14	41-5	COVER, BATTERY	1
13	81-37	BATTERY PLUG	1
12	10-109-20	FL.HD. MACH. SCREW 10-32X 1/2	1
11	10-126-10	PAN HD. MACH. SCREW 6-32X 3/4	2
10	81-51-5	SPACER	2
9	10-228-1	SCREW, TAPPING #8X 1/2 LG.	2
8	10-111-1	SCREW, TAPPING 10-24X 1/2	1
7	2	LABEL, DISC PLATE	1
6	81-8	HOUSING & KEY BOARD ASSY.	1
5	10-111-1	SCREW, TAPPING 10-24X 1/2	4
4	231-53	BEAM, PLATE WIRE ASSY. (STRAIN GAGE)	1
3	81-49-5	P.C. BOARD ASSY.	1
2	41-50	INSULATION	1
1	41-4	CASE	1

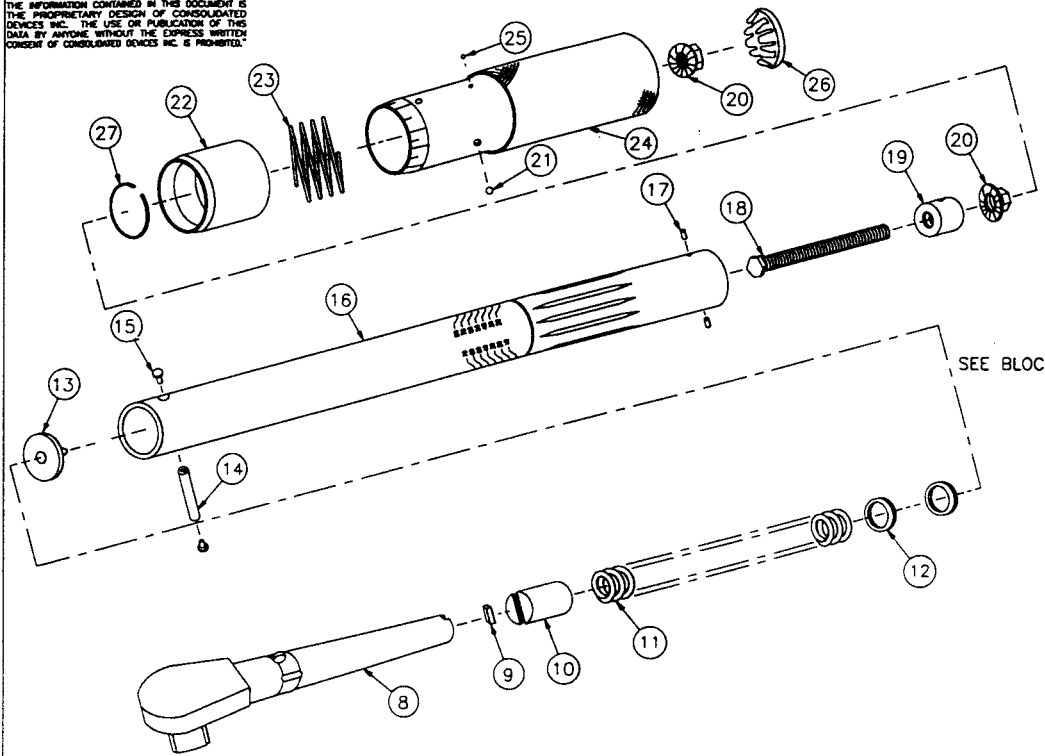
CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .XX ± .01 ± 1/4 ° ± .XX ± .005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
COMPUTORQ		ETW	
SER.231		RANGE 15-250 IN.LB.	
DRAWN Z.J.S.		SCALE	DRAWING NO.
APPROVED [Signature]		DATE 10-15-87	231-90

REPROD. GRAPHICS/ACCUPRESS REORDER NO. A20441

NOTE: UNCONTROLLED COPY

2502 C

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	D	TAB NO. -3 WAS -2	1-29-97	20

29			
28			
27	47-238-4	SPRING RING	1
26	10-103-1	BUTTON PLUG	1
25	10-106-1	BALL 3/32	1
24	61-248-2	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-1	ADJUSTING SCREW	1
17	10-106-5	BALL	2
16	61-250-4	TUBE, (ROLL STAMP)	1
15	61-263	RVMT, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	10-104-2	WASHER, FLAT	A/R
11	61-260	SPRING, TORQUE	1
10	50-16	CAM	1
9	61-18-0	PIVOT BLOCK	1
8	61-100-6	ARM & DRIVE ASSEMBLY (3/8)	1
7			
6			
5			
4			
3			
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

-6			
-5			
-4			
-3	61-258-9	V. BELKNAP	VB 2502MMH
-2	SEE SEPARATE DRAWING		
-1	61-246-9	CDI	2502MMH
TAB NO.	▲	CUSTOMER	MODEL NO.
	ITEM NO. 22		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 ±.01 ±1/2°
±.002 ±.005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. PLAIN
250 IN.LB.

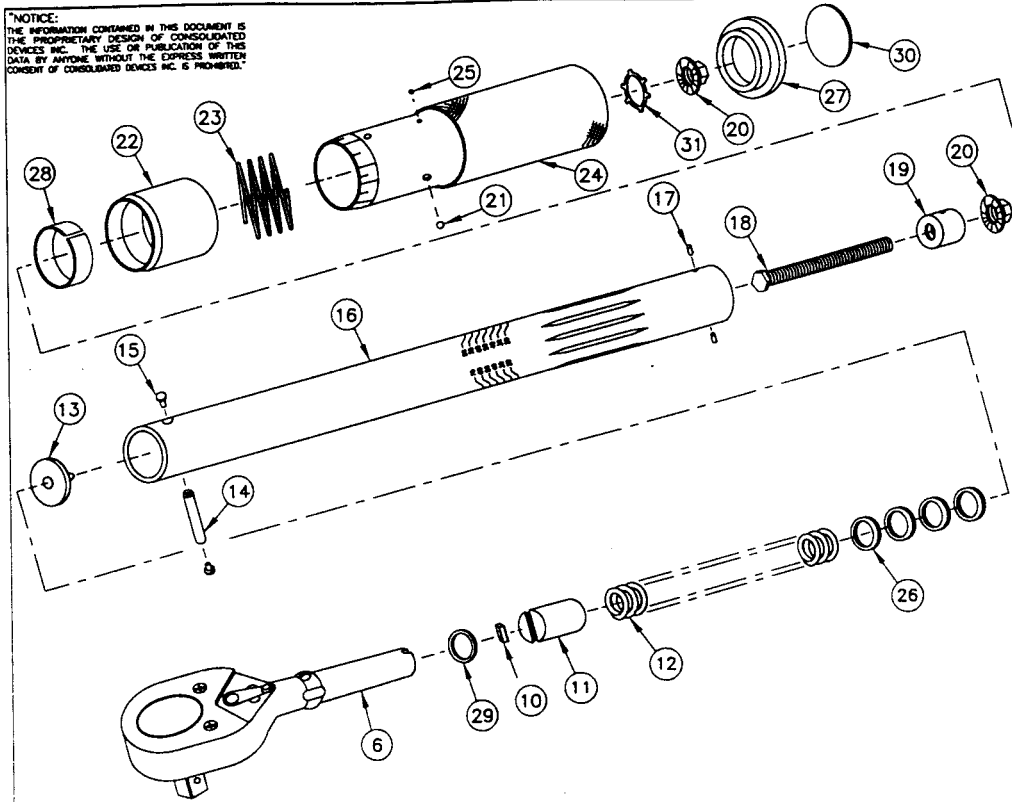
DRAWN	SCALE	DRAWING NO.
<i>scg</i>	NONE	61-342-TAB
APPROVED	DATE	
<i>jay</i>	07-29-93	

NOTES:

NOTE: UNCONTROLLED COPY

2502 MMH

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	K	ADD TAB NO. -8	7-18-99	<i>[Signature]</i>

31	61-237	RETAINING RING-Self Locking	1
30	10-203-1	CDI END PLUG (SMALL) ONLY FOR CDI	1
29	10-241-2	O-RING	1
28	47-338-2	NYLON BUSHING	1
27	96-103-2	END PLUG-SMALL	1
26	10-104-2	WASHER, FLAT	A/R
25	10-106-1	BALL 3/32	1
24	61-448-2	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22		LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-1	ADJUSTING SCREW (2.00 LONG)	1
17	10-106-5	BALL	2
16	61-250-24	TUBE, (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-260	SPRING, TORQUE	1
11	50-16	CAM	1
10	61-18-0	PIVOT BLOCK	1
9			
8			
7			
6		RATCHET BODY ASSEMBLY	1
5			
4			
3			
2			
1			

- △ PRODUCT SHOULD BE MADE PER REV. "I" AFTER REV. "H" HAS BEEN PHASED OUT.
- △ USE ITEM 30 FOR CDI ONLY.
- △ IF 61-100-100 NOT AVAILABLE 61-215-0 CAN BE USED AS TEMPORARY REPLACEMENT.

-9				
-8	61-275-10	61-100-10	GRAY TOOL	MR 250HD
-7	SEE SEPARATE DRAWING		IBM	5449944
-6	61-946-10	61-100-10	MOUNTZ	MTW 250i
-5	61-258-10	61-100-10	V. BELKNAP	VB 2502MRMH
△ -4	61-246-10	61-100-10	CDI	2502MRMH-QR
-3	61-273-1	61-100-10	WILLIAMS TOOL	BTW-1RCA
-2	61-261-1	61-100-100	HASTINGS	1220
△ -1	61-246-10	61-100-100	CDI	2502MRMH
TAB NO.	△ ITEM NO. 22	△ ITEM NO. 6	CUSTOMER	MODEL NO.

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/32 .01 .1/2° XXXX .005			
MATERIAL			
FINISH			
DRAWN <i>scg</i>		SCALE NONE	DRAWING NO.
APPROVED <i>jay</i>		DATE 08-18-92	61-336-TAB

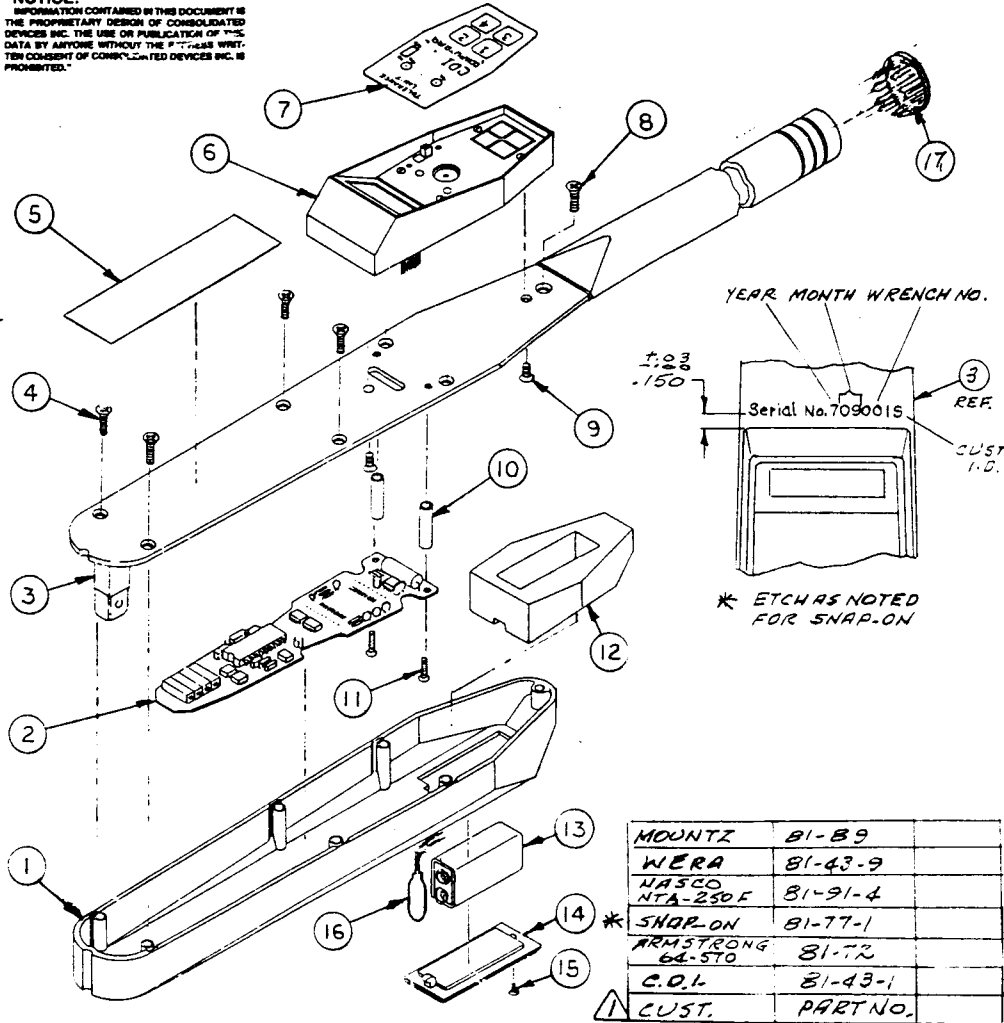
CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO ADJ. WRENCH 3/8 DR. RATCHET
250 IN.LB. RATCHET BODY-OVAL

2502 MRMH
2502 MRMH - QR

NOTE: UNCONTROLLED COPY

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MOUNTZ	81-B9	
WERA	81-43-9	
NASEO	81-91-4	
NTA-250F	81-91-4	
*SNAP-ON	81-77-1	
ARMSTRONG	81-72	
64-570	81-72	
C.O.L.	81-43-1	
Δ CUST.	PART NO.	

2. FOR MAIN PC BOARD, LCD BOARD, & KEYBOARD WIRING ASSY. SEE 81-85.

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	PN WAS 81-90	4/18/89	ZJS
ZJS	B	ADD ITEM 7 LABEL COLUMN		
ZJS	C	ADD ITEM 17	7-21-92	ZJS
SJ	D	ITEM 8 WAS 10-165-1 ITEM 9 WAS 10-165-2	3-2-94	SJ
SJ	E	ITEM 5 WAS 81-54	3-11-94	SJ

17	10-103-7	BUTTON PLUG	1
16	81-37	BATTERY PLUG	1
15	10-227-1	FLAT HD. TAPPING SCREW	1
14	81-38	BATTERY COVER	1
13	81-6	BATTERY	1
12	81-3	BATTERY HOUSING (FOAM)	1
11	10-126-11	PN HD. MACH. SCREW 6-32 X 7/8	2
10	81-51-6	SPACER, MAIN BOARD	2
9	10-228-1	SCREW, OVAL HD. UNDERCUT #8 X 1/2	2
8	10-235-4	SCREW, OVAL HD. TAPPING #10 X 1/2	1
7	Δ	LABEL, NAME PLATE	1
6	81-8	HOUSING & KEYBOARD ASSY.	1
5	51-15	INSTRUCTION LABEL	1
4	10-235-1	SCREW, OVAL HD. TAPPING #10 X 3/4	4
3	81-53-1	BEAM, PLATE, WIRE ASSY. (STRAIN GAGE)	1
2	81-49-2	P.C. BOARD ASSY.	1
1	81-5	CASE	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 .XX ± .01 ± 1/2°
 .XXX ± .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

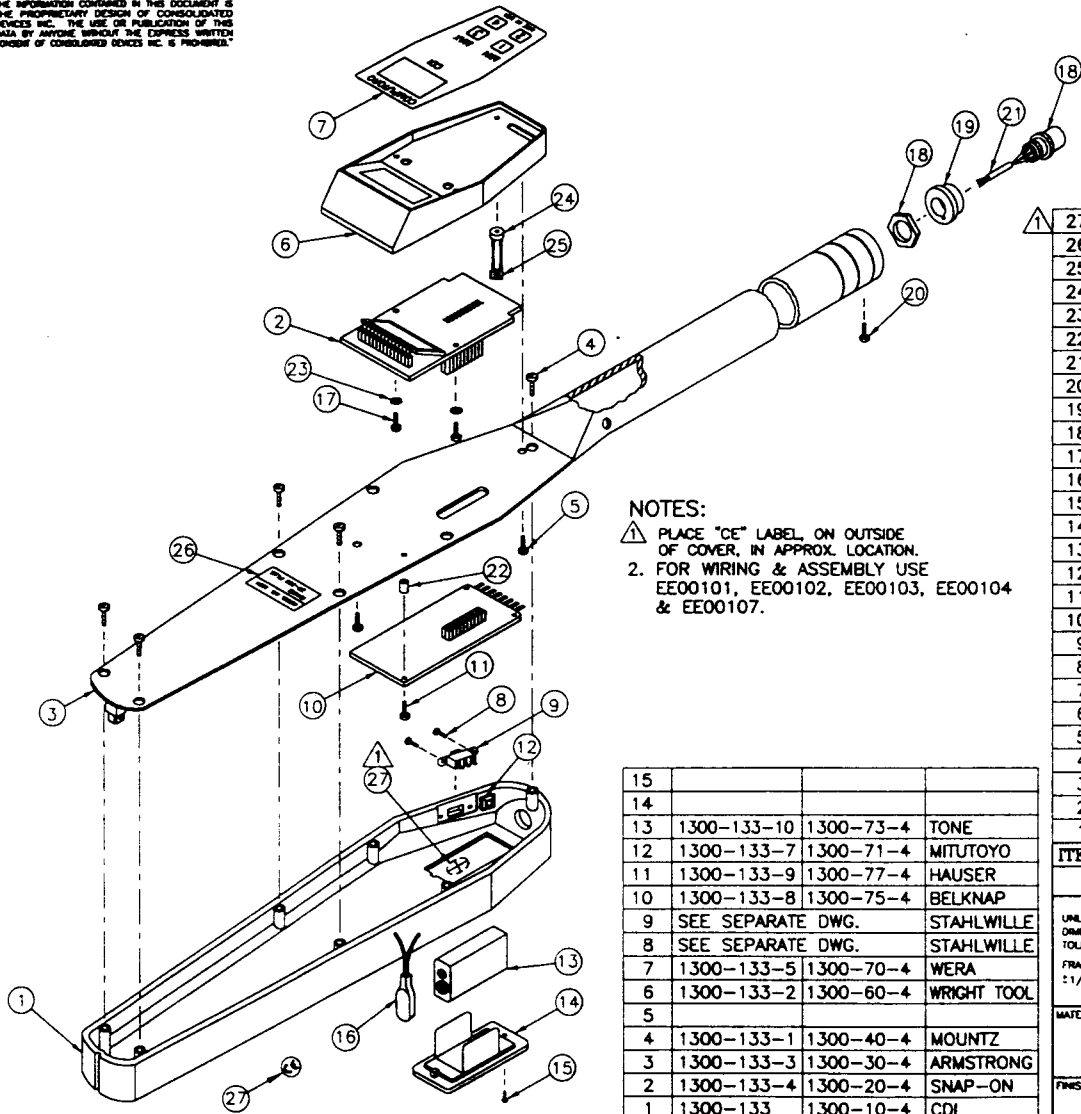
COMPUTORQ ETW

SER. 81 RANGE 15-250 FT.LB.

DRAWN ZJS	SCALE	DRAWING NO.
APPROVED	DATE 10-15-89	81-90-1

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	0	△ WAS △, △ WAS △, ADD TAB 13	5-16-99	Jay



NOTES:
 △ PLACE "CE" LABEL, ON OUTSIDE OF COVER, IN APPROX. LOCATION.
 2. FOR WIRING & ASSEMBLY USE EE00101, EE00102, EE00103, EE00104 & EE00107.

15			
14			
13	1300-133-10	1300-73-4	TONE
12	1300-133-7	1300-71-4	MITUTOYO
11	1300-133-9	1300-77-4	HAUSER
10	1300-133-8	1300-75-4	BELKNAP
9	SEE SEPARATE DWG.		STAHLWILLE
8	SEE SEPARATE DWG.		STAHLWILLE
7	1300-133-5	1300-70-4	WERA
6	1300-133-2	1300-60-4	WRIGHT TOOL
5			
4	1300-133-1	1300-40-4	MOUNTZ
3	1300-133-3	1300-30-4	ARMSTRONG
2	1300-133-4	1300-20-4	SNAP-ON
1	1300-133	1300-10-4	CDI
TAB	ITEM 7 △	ITEM 26 △	CUSTOMER

27	950-99	CE LABEL	1
26	△	MODEL NO. LABEL	1
25	344-16-1	PCB CONNECTOR	1
24	81-28	BUZZER	1
23	10-205-3	WASHER, NYLON	2
22	1300-4-2	SPACER 5/16 LONG	1
21	82-24-2	CABLE	1
20	10-101-26	SOCKET SETSCREW 8-32 UNC X 1/8	1
19	1300-82-33	ADAPTER	1
18	1100-77	RECEPTACLE WITH NUT & WASHER	1
17	10-126-18	PAN HEAD MACHINE SCREW 4-40 X 3/16	2
16	81-37	BATTERY PLUG	1
15	10-227-1	FLAT HEAD TAPPING SCREW	1
14	1300-82-19	COVER & CLIP ASSEMBLY	1
13	81-6	BATTERY 9V	1
12	44-9	MOUNTING DEVICE	1
11	10-126-7	PAN HEAD MACHINE SCREW 4-40 X 1/2	1
10	1300-101	PC BOARD-ANALOG ASSEMBLY	1
9	1100-20	SWITCH	1
8	10-109-17	FLAT HEAD MACHINE SCREW	2
7	△	KEY PAD	1
6	1300-1	HOUSING	1
5	10-225-9	BUTTON HEAD SOCKET CAP SCREW 8-32 NC X 5/16	2
4	10-235-4	SCREW, TAPPING 10 X 3/4	5
3	1300-81-53	BEAM, PLATE, WIRING ASSEMBLY (STRAIN GAGE)	1
2	1300-111	PC BOARD-DIGITAL ASSEMBLY	1
1	1300-82-34	CASE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 ±.01 ±1/2°
 ±.002 ±.005

MATERIAL

FINISH

CONOLIDATED DEVICES, INC.
 City of Industry, California

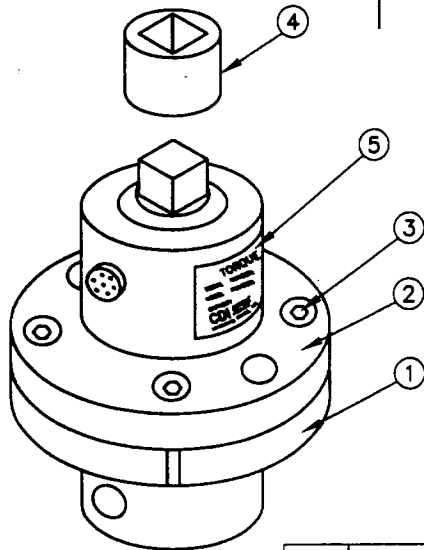
EXPLODED ILLUSTRATION
 COMPUTORQ
 RANGE 250 FT.LB.

DRAWN Z.J.S./SLJ	SCALE NONE	DRAWING NO.
APPROVED Jay	DATE 09-16-94	1300-82-TAB

NOTE: UNCONTROLLED COPY

2503CF-11

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BY	LTR	DESCRIPTION	DATE	APPROVED
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7			
6			
5	342-24-70	LABEL, TRANSDUCER	1
4	65-26-3	SOCKET ADAPTER	1
3	10-168-24	SOCKET HEAD CAP SCREW 3/8-16, 1/2" LONG	4
2	342-11-0	TRANSDUCER 250 FT.LB.	1
1	2000-225-4	SMALL TRANSDUCER ADAPTER	1



ITEM	PART NO.	DESCRIPTION	REQ'D
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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
±1/32	.XX ±.01	±1/2°
	.XXXX ±.005	

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

TORQUE TRANSDUCER KIT
(USED ON LOADERS)

2503-F-TTPL

250 FT.LB.

CDI

DRAWN A.M.V.

SCALE NONE

DRAWING NO.

APPROVED

DATE

3-2-80

342-11-02L



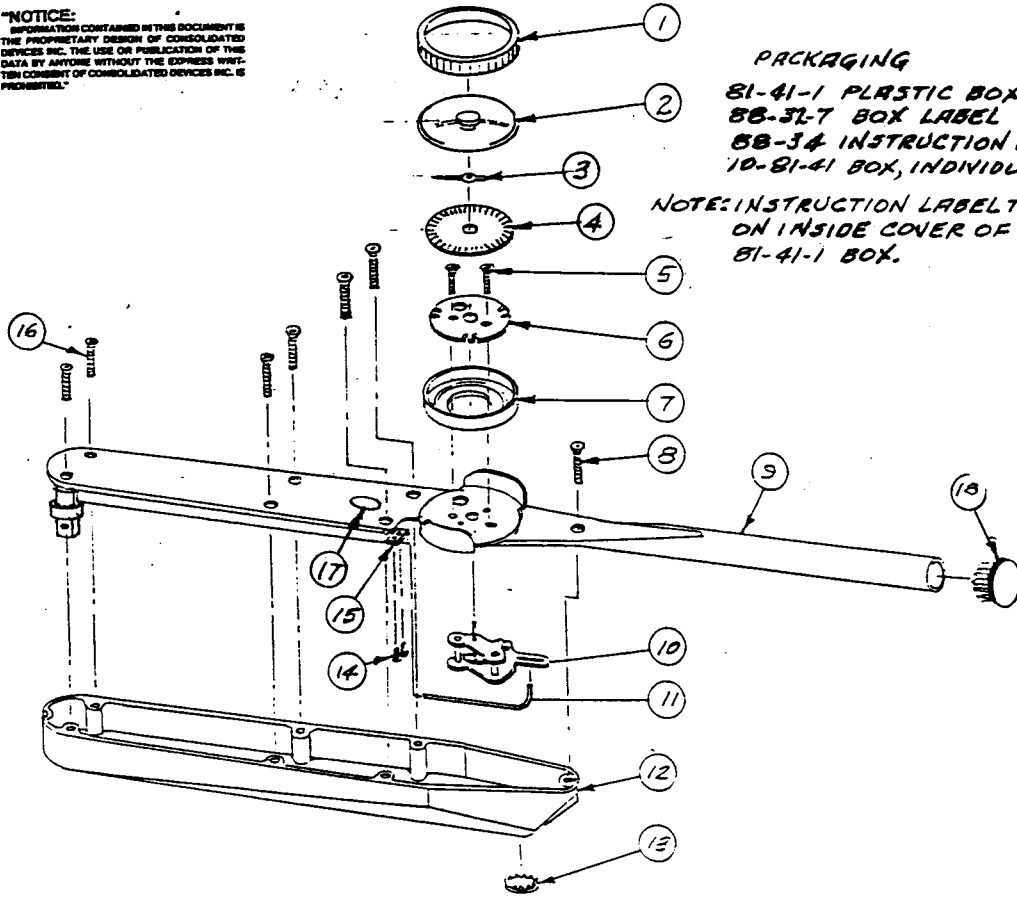
LABEL MADE IN CDI.

- CLEAN SURFACE ITEM 2 WITH FREON BEFORE APPLYING LABEL (ITEM 5)

NOTES:

NOTE: UNCONTROLLED COPY

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 TEN CONSENT OF CONSOLIDATED DEVICES INC. IS
 PROHIBITED.



PACKAGING
 81-41-1 PLASTIC BOX
 88-34-7 BOX LABEL
 88-34 INSTRUCTION LABEL
 10-81-41 BOX, INDIVIDUAL.

NOTE: INSTRUCTION LABEL TO BE
 ON INSIDE COVER OF
 81-41-1 BOX.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ADD 10-81-41 BOX TO PACKAGING	3/22/91	[Signature]
ZJS	B	ADD ITEM 10	7-21-92	707
ZJS	C	ITEM 8 WAS 10-165-2 ITEM 16 WAS 10-165-2	9/12/92	707

18	10-103-7	BUTTON PLUG	1
17	88-35	INSPECTION LABEL	1
16	10-235-1	SCREW, SELF TAPPING - PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	80-34-2	CASE	1
11	80-11-1	PUSH ROD	1
10	10-113	MOVEMENT	1
9	48-208-10	HANDLE CHANNEL BEAM & GUARD ASSY	1
8	10-235-4	SCREW, SELF TAPPING - REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	88-201-16	SCALE	1
3	48-18-2	POINTER	1
2	48-192	MEMORY POINTER ASSY.	1
1	48-34	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 ± .01 ± 1/2°
 ± .005

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION

DIAL WRENCH (MEMORY) 1/2 DR.

0-350044-000 0-350 NAW TORSION

MATERIAL

FINISH

DRAWN ZJS

SCALE

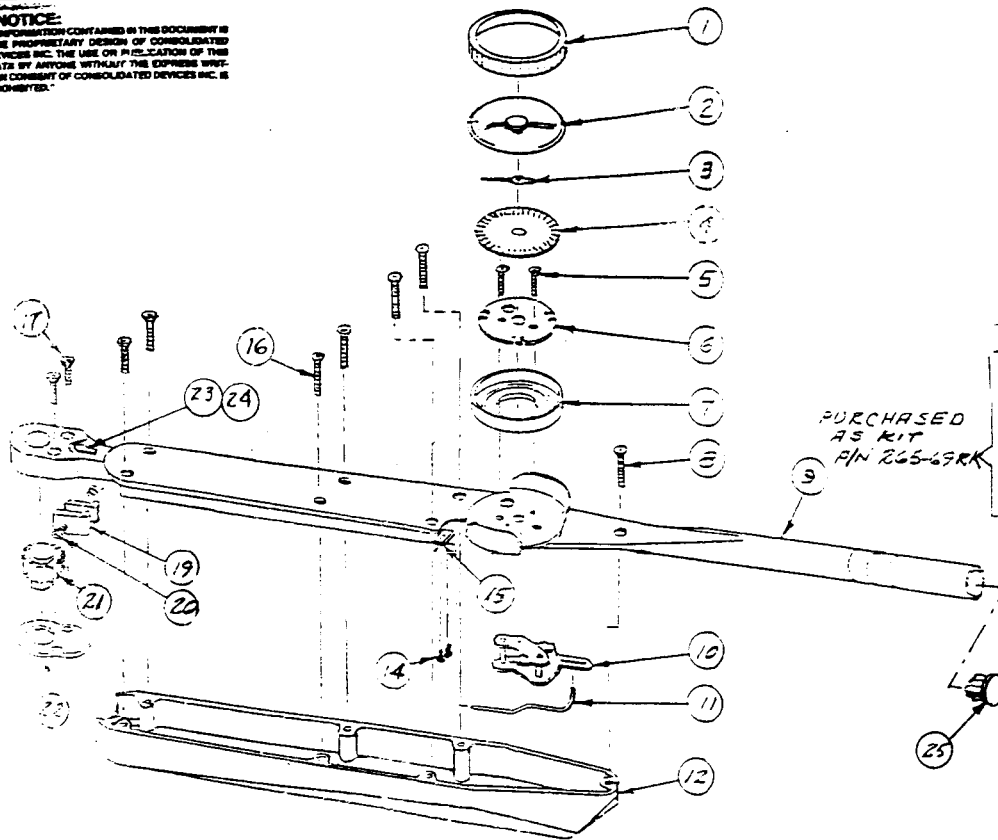
DRAWING NO.

APPROVED [Signature]

DATE 9/12/90

88-161-6

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PURCHASED
 AS KIT
 P/N 265-69K

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
RR	J	ADD TAB NO. 7	8-6-99	Joy

25	10-103-7	BUTTON PLUG	1
24	265-69-5	REVERSING CAM (NOT SHOWN)	1
23	265-69-8	REVERSING LEVER	1
22	265-69-2	PLATE	1
21	265-69-6	RATCHET WHEEL	1
20	265-32	SPRING	2
19	265-69-4	DOG R&L	2
18	265-68	RATCHET BODY (NOT SHOWN)	1
17	265-69-7	S-REW	2
16	10-235-1	SCREW SELF TAPPING - PLATE	6
15	80-12	CLAMP PUSH ROD	1
14	10-110-1	SCREW MACH. RD. HEAD	2
13	10-103-3	BUTTON PLUG	1
12	265-17-4	CASE	1
11	20-11-1	PUSH ROD	1
10	10-113	MOVEMENT	1
9	48-208-14	PLATE & GUARD ASSY.	1
8	10-215-4	SCREW SELF TAPPING REAR	1
7	48-83	RING BEZEL MOUNTING	1
6	40-82	PLATE DIAL MOUNTING	1
5	10-109-3	SCREW MACHINE FLAT HD	2
4	A	SCALE	1
3	48-18-2	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

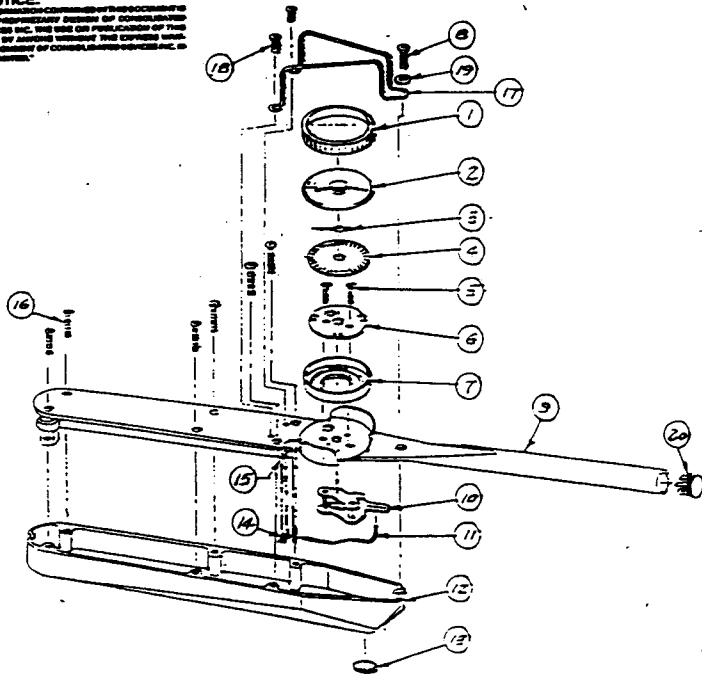
7	SEE SEPARATE DWG.	KTC CMP 353R
6	268-48-53 0-.250 FT.LB. 0-.350 Nm	WRIGHT TOOL 4472
5	268-41-6 0-.250 FT.LB. 0-.350 Nm	GRAY DF250R
4	88-201-51 0-.250 FT.LB. 0-.350 Nm	WREAR 6126-2
3	88-201-26 0-.250 FT.LB. 0-.350 Nm	ARMSTRONG 64-405
2	SEE SEPARATE DWG.	KTC CMD 353R
1	268-48-10 0-.250 FT.LB. 0-.350 Nm	C.D.I 2503 LDFNR.
TAB NO	A SCALE RANGE	MODEL

CODE IDENT	PART NO.	DESCRIPTION	QTY
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .002 ± .01 ± .1° XXX ± .001			
MATERIAL			
FINISH			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION KTC DIAL WRENCH 1/2 DR.(MEMORY) RATCHET 250 FT. LB.			
SER. 265			
DRAWN T.S.		SCALE —	DRAWING NO.
APPROVED [Signature]		DATE 1/21/91	268-160-TAB

NOTE: UNCONTROLLED COPY

2503 LDFNR

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 17 WAS 90-85	1-28-92	ZJS
ZJS	B	ADD ITEM 20	7-21-92	ZJS
ZJS	C	ITEM B WAS 10-165-3 ITEM 16 WAS 10-165-2 ITEM 18 WAS 10-111-1	9/11/92	ZJS

20	10-103-7	BUTTON PLUG	1
19	10-104-7	WASHER	1
18	10-222-1	SCREW	2
17	98-45	WIRE GUARD	1
16	10-235-1	SCREW, SELF TAPPING - PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	80-3A-4	CASE	1
11	80-11-1	PUSHROD	1
10	10-113	MOVEMENT	1
9	AB-208-19	HANDLE, GUARNEL ARM & GUARD ASSY	1
8	10-235-5	SCREW, SELF TAPPING - CASE	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	-	SCALE	1
3	48-48-2	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQ
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FINISHING DETAILS UNLESS
 OTHERWISE SPECIFIED
 1/32 28 2.81 2 1/4
 .001 = .001

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (MEMORY) 1/2 DR.

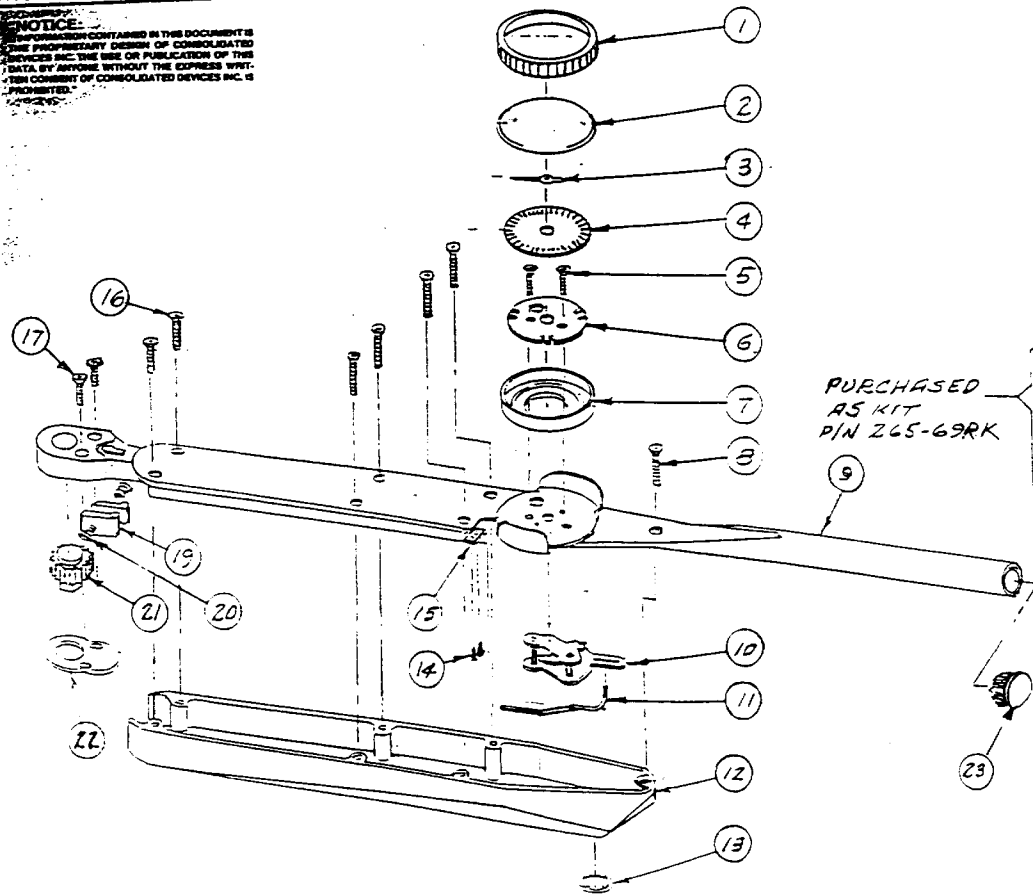
0-250 FT. LB. 0-350 Nm TORSION

DESIGN	ZJS	SCALE	---	DRAWING NO.	88-163-FAB
APPROVED	[Signature]	DATE	1-23-92		

-2	88-52	0-250 FT. LB. CSE	2503 LOANW
-1			
TAB NO.	A	SCALE RANGE	CUSTOMER MODEL

NOTE: UNCONTROLLED COPY

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PURCHASED
 AS KIT
 P/N 265-69RK

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZLS	A	ITEM 12 WAS 265-17-2	3-19-91	
ZLS	B	ADD ITEM 23	7-21-91	ZLS
ZLS	C	ITEM B WAS 10-165-1 ITEM 16 WAS 10-165-2	9/11/92	ZLS
ZLS	D	ITEM 20 WAS 265-69-3	3-2-94	ZLS

23	10-103-7	BUTTON PLUG	1
22	265-69-2	PLATE	1
21	265-69-6	RATCHET WHEEL	1
20	265-32	SPRING	2
19	265-69-2	DOG L.H. & R.H.	2
17	265-69-7	SCREW	2
16	10-235-1	SCREW SELF TAPPING - PLATE	3
15	80-12	CLAMP PUSH ROD	1
14	10-110-1	SCREW MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	265-17-2	CASE	1
11	84-11-2	PUSHROD	1
10	10-113	MOVEMENT	1
9	48208-14	HANDLE CHANNEL BEAM & GUARD ASSY.	1
8	10-235-4	SCREW SELF TAPPING - REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE DIAL MOUNTING	1
5	10-109-3	SCREW MACHINE FLAT HEAD	2
4	A	SCALE	1
3	48-18-2	PRINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = .1/32 XX = .01 = 1°
 XXX = .005

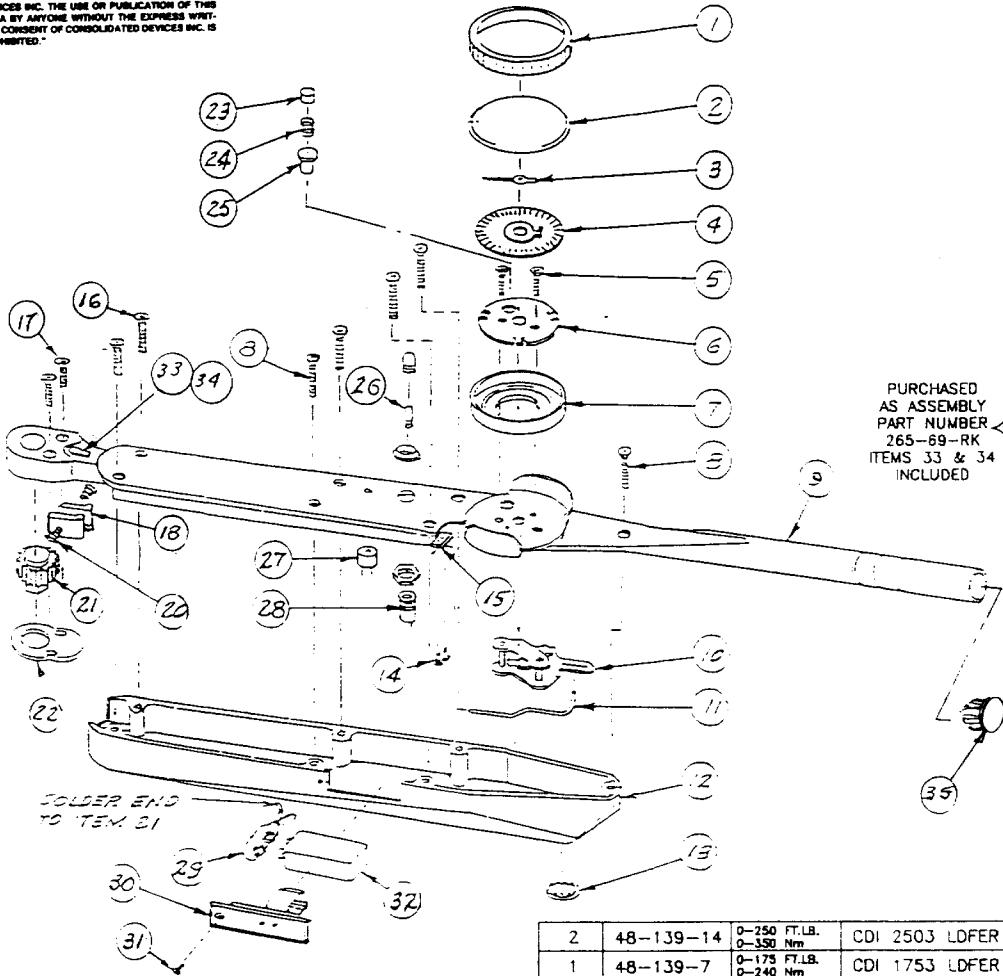
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (PLAIN) 1/2 DR. RATCH.

250 FT. LB. - 350 N.M.
 DRAWN ZLS
 APPROVED [Signature] DATE 3/6/91
 DRAWING NO. 268-150-TAB

1	BB-201-1	0-250 FT. LB. 0-350 N.M.	C.D.I. 2503 LDFR
TAB NO.	SCALE	RANGE	CUST.

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PURCHASED AS ASSEMBLY
 PART NUMBER
 265-69-RK
 ITEMS 33 & 34
 INCLUDED

SOLDER END
 TO ITEM 31

2	48-139-14	0-250 FT.LB. 0-350 Nm	CDI 2503 LDFER
1	48-139-7	0-175 FT.LB. 0-240 Nm	CDI 1753 LDFER
TAB NO.	Δ SCALE ASSEMBLY	RANGE	CUSTOMER

2. FOR WIRING DETAIL & ITEMS 36 & 37 ASSEMBLY SEE 84-10-1.
 1. BOND ITEM 27 TO BOTTOM OF PLATE, USE LOCTITE SUPER BONDER 495.

NOTES:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SLP	F	ADD DASH 38	10-19-94	Jay

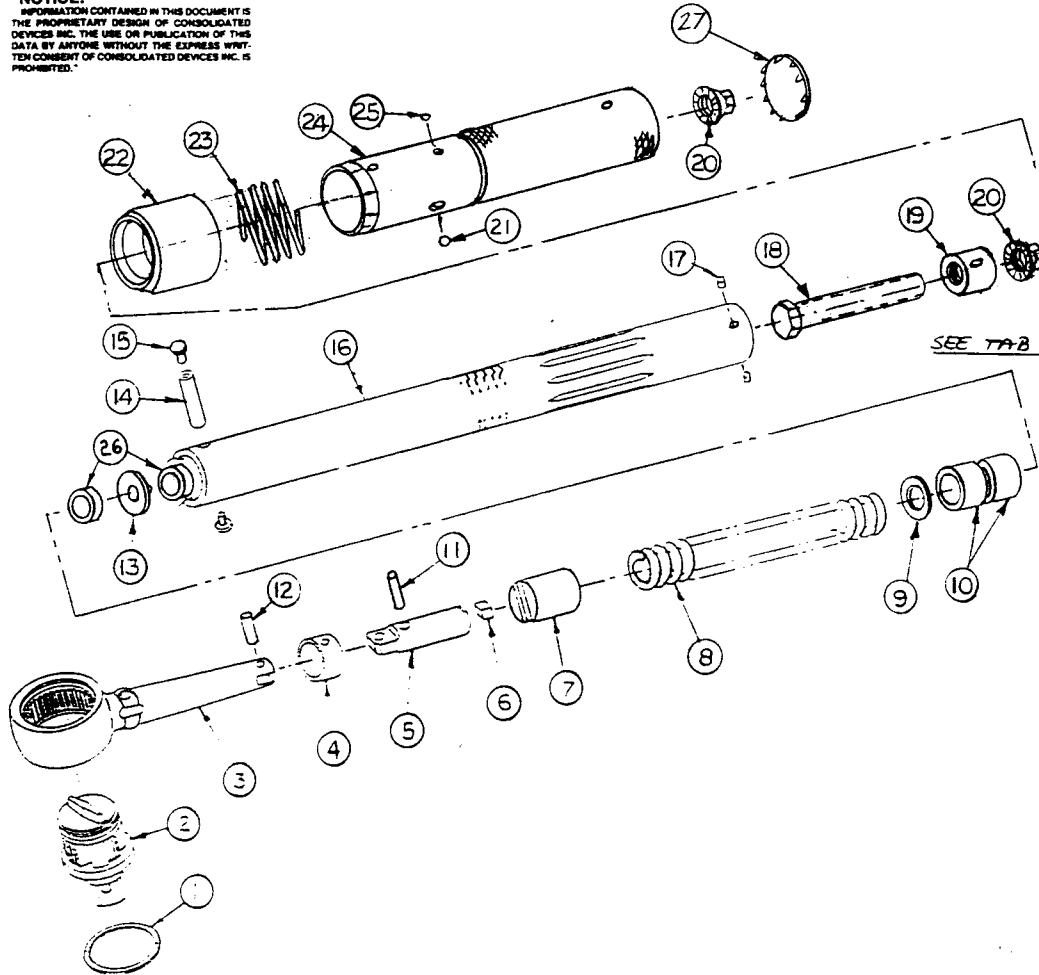
38	81-19-11	RESISTOR, CARBON FILM (NOT SHOWN)	1
37	44-9	MOUNTING DEVICE (NOT SHOWN)	1
36	44-7	FLAT SOLDER TERMINAL	1
35	10-103-7	BUTTON PLUG	1
34	265-69-5	REVERSING CAM (NOT SHOWN)	1
33	265-69-8	REVERSING LEVER	1
32	81-6	BATTERY 9V	1
31	10-227-1	FLAT HEAD TAPPING SCREW	1
30	84-19	COVER & CLIP ASSEMBLY	1
29	81-37	BATTERY PLUG	1
28	44-5	LAMP HOLDER	1
27	81-28	BUZZER	1
26	44-6	LAMP	1
25	40-102	RETAINER, SPRING	1
24	10-105-2	SPRING	1
23	40-115	PLUNGER	1
22	265-69-2	PLATE	1
21	265-69-6	RATCHET WHEEL	1
20	265-32	SPRING	2
19	265-88	RATCHET BODY (NOT SHOWN)	1
18	265-69-4	DOG R.H.	2
17	265-69-7	SCREW	2
16	10-235-7	SCREW, SELF TAPPING - PLATE	5
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACH. ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	264-17-2	CASE	2
11	80-11-1	PUSH ROD	1
10	10-113	MOVEMENT	1
9	44-208-12	PLATE & DIAL MOUNTING	1
8	10-235-4	SCREW, SELF TAPPING REAR	2
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	Δ	SCALE ASSEMBLY	1
3	48-18-2	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± .032 XX ± .01 ± 1/2° XXX ± .005	CONSOLIDATED DEVICES, INC. City of Industry, California		
	EXPLODED ILLUSTRATION DIAL WRENCH 1/2 DR. (ELECTRIC BEEPER) 250 FT.LB.		
MATERIAL	DRAWN SLP		DRAWING NO. 264-170-TAB
FINISH	SCALE NONE	DATE 7-8-91	
	APPROVED		

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1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTE

-3	47-251-1	WASTINGS	1222
-2	47-250-4	CAT	945006
-1	47-246-1B	CDI	2503 MFRMH
TAB	ITEM # 22	CUSTOMER	MODEL NO.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
JK	A	ITEM 10 WAS 95-28-4	10-1-91	JK
JK	B	PIN WAS 96-232-1, ADD TAB # ITEM 26	12-13-91	JK
JK	C	ITEM 10 WAS 1 REQ'D	3-4-94	JK
JK	D	ITEM 10 WAS 47-242-1	8-25-94	JK
A.M.V.	E	ITEM 12 WAS 45-250, ITEM 26 WAS 95-28-2 REA'D. 1.	11-21-95	JK

27	10-103-3	BUTTON PLUG	1
26	95-28-3	SPACER	2
25	10-106-1	BALL (3/32)	1
24	47-248-1	HANDLE ASS'Y. (ROLL STAMP)	1
23	47-249	SPRINGS, LOCK RING	1
22	A	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-1	LOAD SCREW	1
17	47-240	PIN, TUBE INSERT	2
16	96-204-1	TUBE, (ROLL STAMP) (250' LB)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	2
9	10-104-1	WASHER, FLAT	AIR
8	95-246	SPRING, TORQUE	1
7	45-261	CRAM	1
6	45-258-1	PAWL	1
5	41-61	SECONDARY ARM	1
4	41-60	FULCRUM	1
3	45-23-1	RATCHET BODY	1
2	95-54	GUTS, RATCHET (1/8" DR.)	1
1	95-44	RETAINER RING, RATCHET	1

CODE IDENT	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES = .002 XX = .01 = .125 XXX = .005

PARTS LIST

CONSOLIDATED DEVICES, INC.
 City of Industry, California

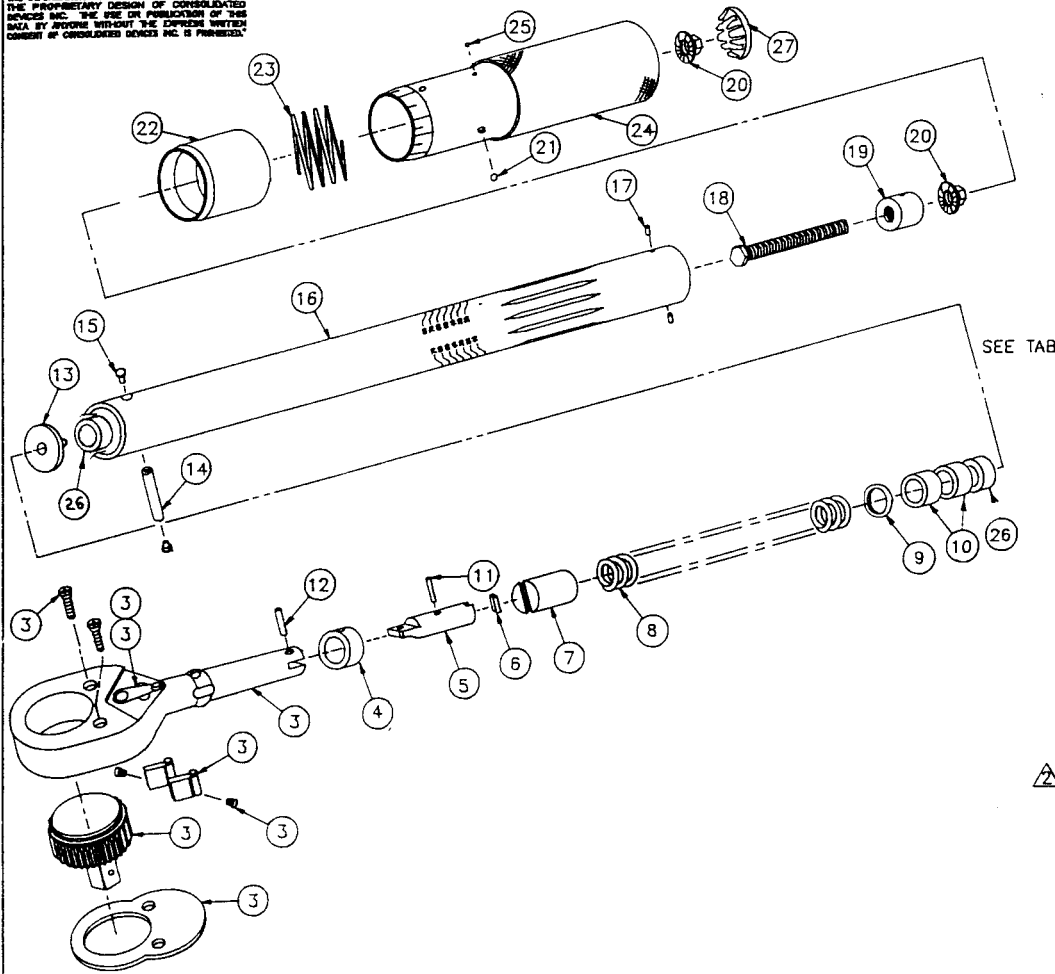
EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 RATCHET DR.
 SER. 96 250 FT. LB.

DRAWN Z.I.S.	SCALE —	DRAWING NO.
APPROVED JK	DATE 9-25-91	96-232-TAB

2503 MFRMH

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△ PURCHASED AS ASSEMBLY, PART NO. 96-500-8.
 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
 NOTES:

-1	47-246-18	CDI	2503MFRMH
TAB #	ITEM # 22	CUSTOMER	MODEL #

BY	LTR	DESCRIPTION	DATE	APPROVED
SJ	A	ITEM 16 WAS 96-204-1	8-28-95	Joy
A.M.V.	B	ITEM 12 WAS 45-250, ITEM 26 WAS 95-28-2 REQ'D.	11-21-95	Joy

27	10-103-3	BUTTON PLUG	1
26	95-28-3	SPACER	2
25	10-106-1	BALL (3/32)	1
24	47-248-11	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-1	ADJUSTING SCREW	1
17	47-240	PIN, TUBE INSERT	2
16	96-204-10	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	2
9	10-104-1	WASHER, FLAT	A/R
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
△ 3	96-500-8	RATCHET BODY ASSEMBLY	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .005 ±.01 ±1/2°
 .0002 .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

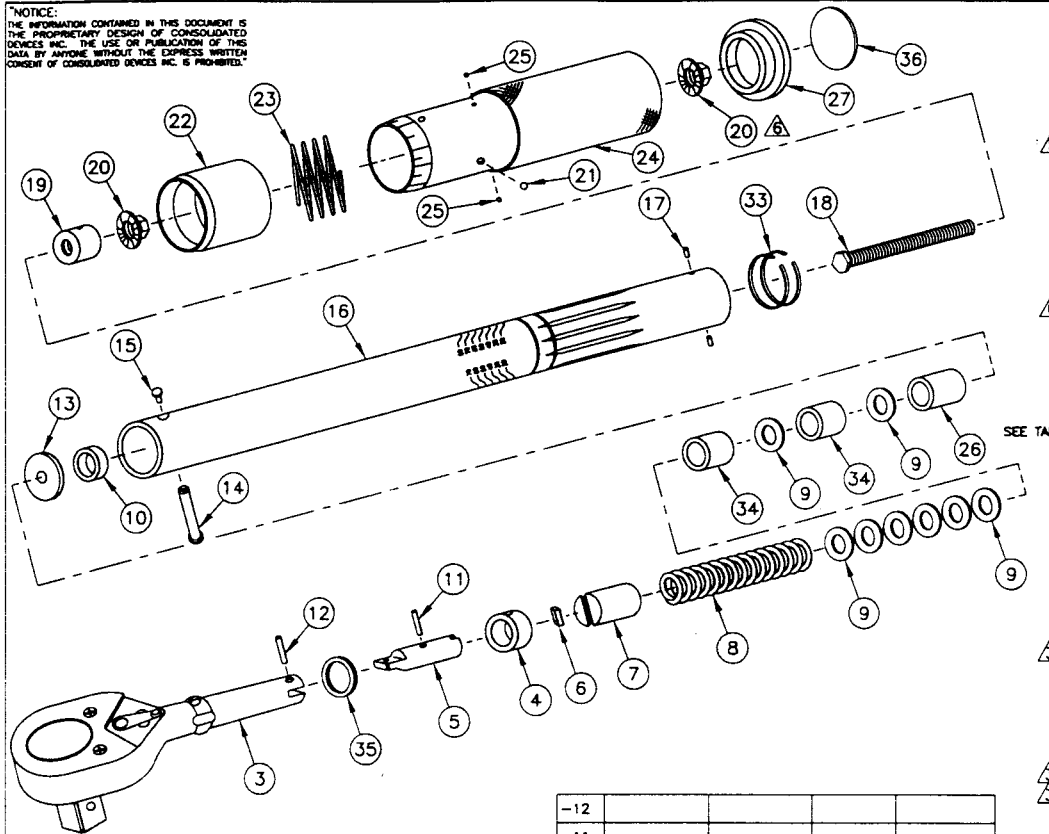
EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. RATCHET
 250 FT.LB. & 33.9 mkp

MATERIAL

DRAWN	SJ	SCALE	NONE	DRAWING NO.	96-244-TAB
APPROVED	Joy	DATE	6-29-95		

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△ AFTER CALIBRATION, APPLY ITEM 28 TO ITEM 20.

△ USE ITEM 36 FOR CDI ONLY.

4. LUBE ITEM 7 WITH ITEM 29 BEFORE ASSEMBLY. APPLY ITEM 29 TO INSIDE OF ITEM 16 USING GREASE GUN WHEN INSERTING ITEM 8.

△ FOR ASSEMBLY OF ITEMS 4, 5 & 11 SEE DWG. 61-33.

2. LUBE ITEMS 4, 5, 8, 9, 10, 13, 18, 26 & 34 WITH ITEM 30 BEFORE ASSEMBLY.

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

-12				
-11				
-10	96-500-8	47-275-18	GRAY TOOL	MFR 250HD
-9	96-500-8	47-946-18	MOUNTZ	MTW 250F
-8	96-500-8	47-258-18	V. BELJOPAP	VB 2503MFRMH
-7	96-500-8	47-246-18	CDI	2503MFRMH-OR
-6	96-500-8	47-273-18	WILLIAMS	STW-3RCFA
-5	96-500-8	47-259-18	WRIGHT TOOL	4478
-4	96-500-8	47-266-3	T & E	7296
-3	96-500-8	47-251-1	HASTINGS	1222
-2	96-500-8	47-250-4	CAT	9U5006
-1	96-500-80	47-246-18	CDI	2503MFRMH
TAB NO.	△ ITEM NO. 3	△ ITEM NO. 22	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	O	ITEM 5 WAS 61-62, ITEM 9 WAS REQ. 7, ITEM 25 WAS REQ. 1 IN NOTE 3 61-33 WAS 61-32, RELOCATED ALL ITEMS IN ORDER OF ASSEMBLY, ADD ITEMS 28, 29, 30 & NOTES 2, 4 & 6.	12-10-99	Jay

△ 36	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
35	10-241-1	O-RING	1
34	95-28-2	SPACER (1.00 LONG)	2
33	47-238-1	SPRING RING	2
32			
31			
30	10-1102-01	SUPER LUBE MULTI-PURPOSE	A/R
29	10-1101-01	SUPER LUBE WITH TEFLON	A/R
△ 28	10-1100	TORQUE SEAL	A/R
27	96-103-3	END PLUG SNAP-ON, CDI	1
26	95-28-1	SPACER (1.38 LONG)	1
25	10-106-1	BALL (3/32)	2
24	47-248-1	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-2	ADJUSTING SCREW (2.75 LONG)	1
17	47-240	PIN	2
16	96-204-1	TUBE (ROLL STAMP)	1
15	45-92	RVET, PIVOT PIN	1
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
△ 11	10-102-24	PIN, FULCRUM	1
10	95-28-4	SPACER (.35 LONG)	1
9	10-104-1	WASHER, FLAT	8
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	46-353-0	PAWL	1
△ 5	61-61	SECONDARY ARM	1
△ 4	61-60	FULCRUM	1
3	△	RATCHET BODY ASSEMBLY	1
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
:1/32 .XX :.01 :1/2°
:XXX: .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.

City of Industry, California

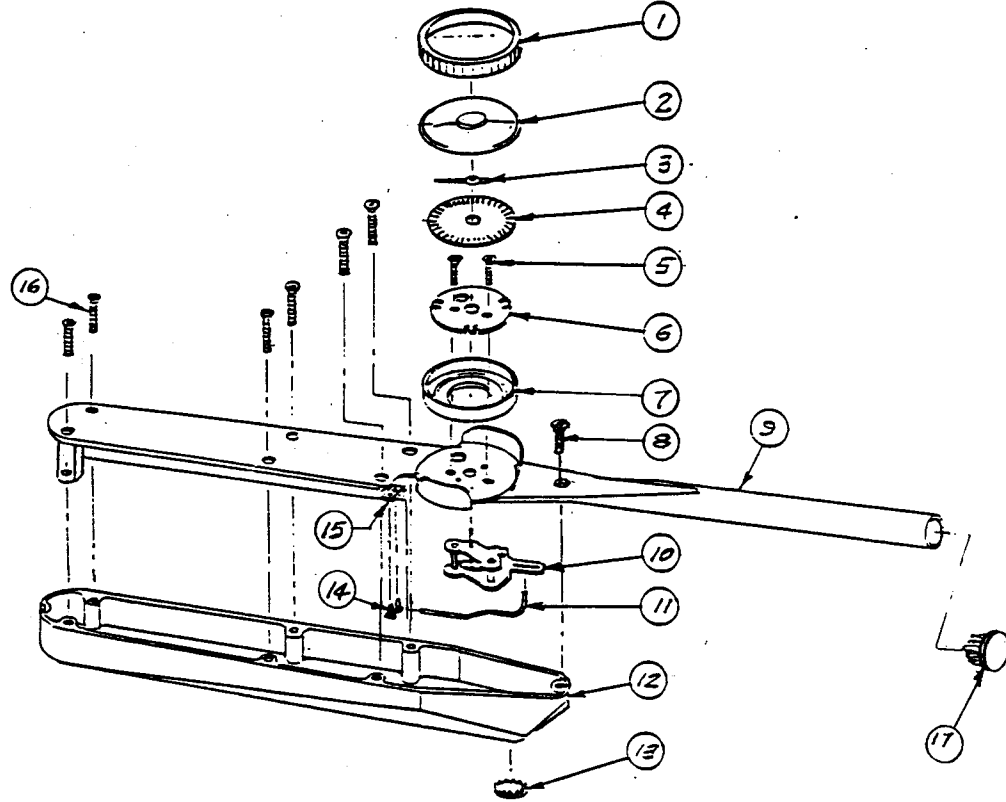
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1/2 DR. RATCHET
250 FT.LB.

DRAWN	Jay	SCALE	NONE	DRAWING NO.	96-332-TAB
APPROVED	Jay	DATE	01-06-94		

NOTE: UNCONTROLLED COPY

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED



17	10-103-7	BUTTON PLUG	1
16	10-235-1	SCREW, SELF TAPPING - PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	80-49	CASE	1
11	84-11	PUSHROD	1
10	10-113	MOVEMENT	1
9	48-108-24	HANDLE CHANNEL, BEAM & GUARD ASSY	1
8	10-235-4	SCREW, SELF TAPPING - BEAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	88-201-10	SCALE	1
3	48-18-2	POINTER	1
2	48-132	MEMORY POINTER ASSY	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 $\pm 1/32$ $\pm .01$ $\pm 1/2^\circ$
 $\pm 1/64$ $\pm .005$

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (MEMORY) ³/₄ADR.
 O-250 ET. LB. O-350 Nm

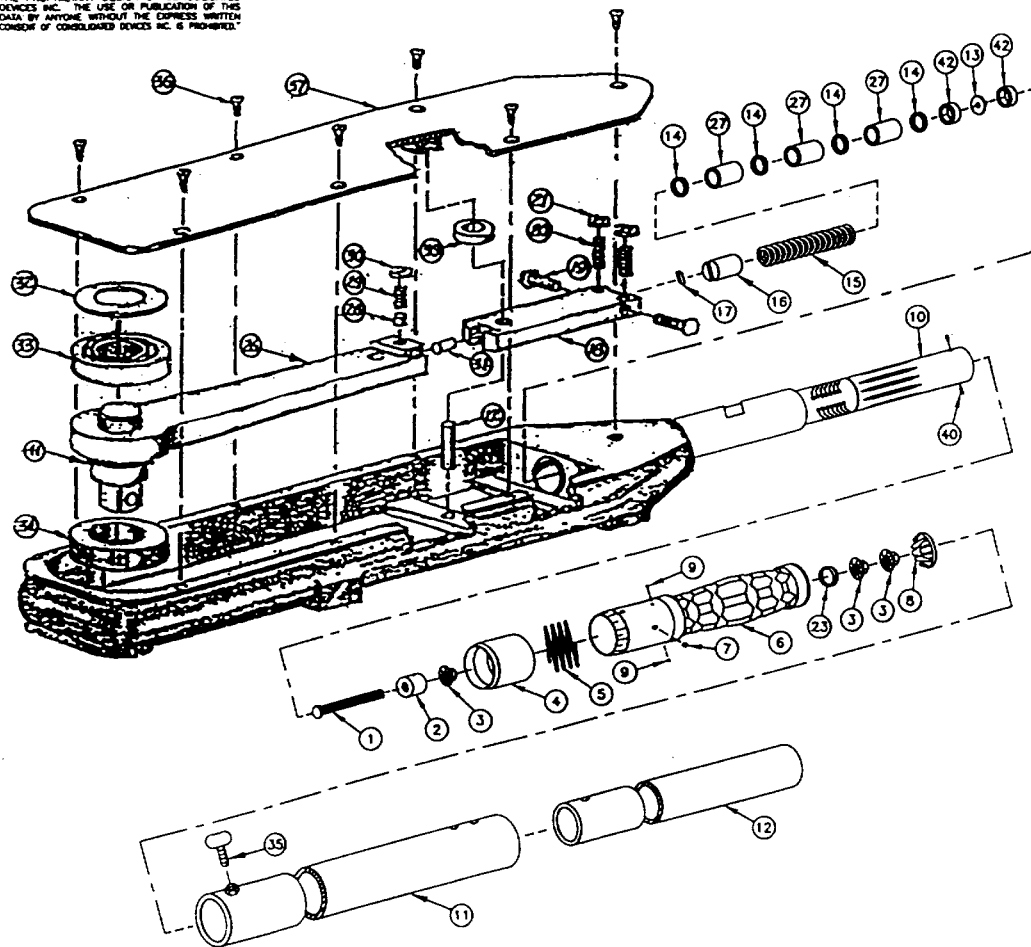
CUST. NO.	TAB. NO.	SCALE	RANGE	TOOL NO.
-----------	----------	-------	-------	----------

DRAWN	SCALE	DRAWING NO.
ZJS	---	88-53-1
APPROVED	DATE	
704	5-14-73	

NOTE: UNCONTROLLED COPY

2604 LDFN

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- △ ITEMS 18 THRU 21 MAY BE FURNISHED AS ASSY. (PART NO. 135-64).
 △ ITEMS 26, 28, 29, 30 & 31 MAY BE FURNISHED AS ASSY. (PART NO. 135-60).

NOTES:

NOTE: UNCONTROLLED COPY

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	G	ITEM 5 WAS 47-249	9-29-79	Jay

43				
42	95-28-4	SPACER (.35 LONG)		2
41	10-146-7	SHIMS		1
40	47-240	PIN		2
39	135-16	SPACER, SECONDARY ARM		1
38				
37	135-58	TOP PLATE & BLOCK ASSY.		1
36	10-111-2	SCREW, SELF TAPPING		7
35	10-155	WING BOLT		1
34	10-133-9	BEARING, SHAFT, DRIVE		1
33	10-133-7	BEARING, PRIMARY ARM		1
32	135-15	SPACER, PRIMARY ARM		1
31	10-102-3	PIN ROLLER, PRIMARY ARM		1
30	10-138-3	HEX NUT, PRIMARY ARM		1
29	10-101-23	SOCKET SETSCREW, PRIMARY ARM		1
28	135-38	PIN, LOCK, PRIMARY ARM		1
27	95-28-1	SPACER (1.38 LONG)		3
26	135-66	PRIMARY ARM, BLOCK & DRIVE ASSY.		1
25				
24	10-106-2	BALL (.1094 DIA.)		1
23	10-304	WASHER		1
22	10-102-2	PIN, ROLLER, SECONDARY ARM		1
21	10-138-5	HEX NUT, SECONDARY ARM		2
20	10-101-31	SOCKET SETSCREW, SECONDARY ARM		2
19	10-125-1	HEX HEAD MACHINE SCREW		2
18	135-3	SECONDARY ARM		1
17	135-19-2	PAWL		1
16	45-251	CAM		1
15	135-7	SPRING, TORQUE		1
14	10-104-1	WASHER, FLAT		4
13	30-8	WASHER, THRUST		1
12	135-13	EXTENSION, 2 ND HANDLE ASSY.		1
11	135-11-1	EXTENSION, HANDLE		1
10	136-165-2	HOUSING & TUBE ASSY. (ROLL STAMP)		1
9	10-106-8	BALL (1/8)		1
8	10-103-3	BUITON PLUG		1
7	10-106-5	BALL (5/32)		1
6	47-344-15	HANDLE ASSEMBLY (ROLL STAMP)		1
5	47-349	SPRING, LOCK RING		1
4	47-276-26	LOCK RING		1
3	47-245-1	HEX FLANGE NUT		3
2	47-241	INSERT TUBE		1
1	47-342-2	ADJUSTING SCREW (2.75 LONG)		1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
: 1/32 .01 .01 : 1/2°
: .005 : .005

MATERIAL

FRESH

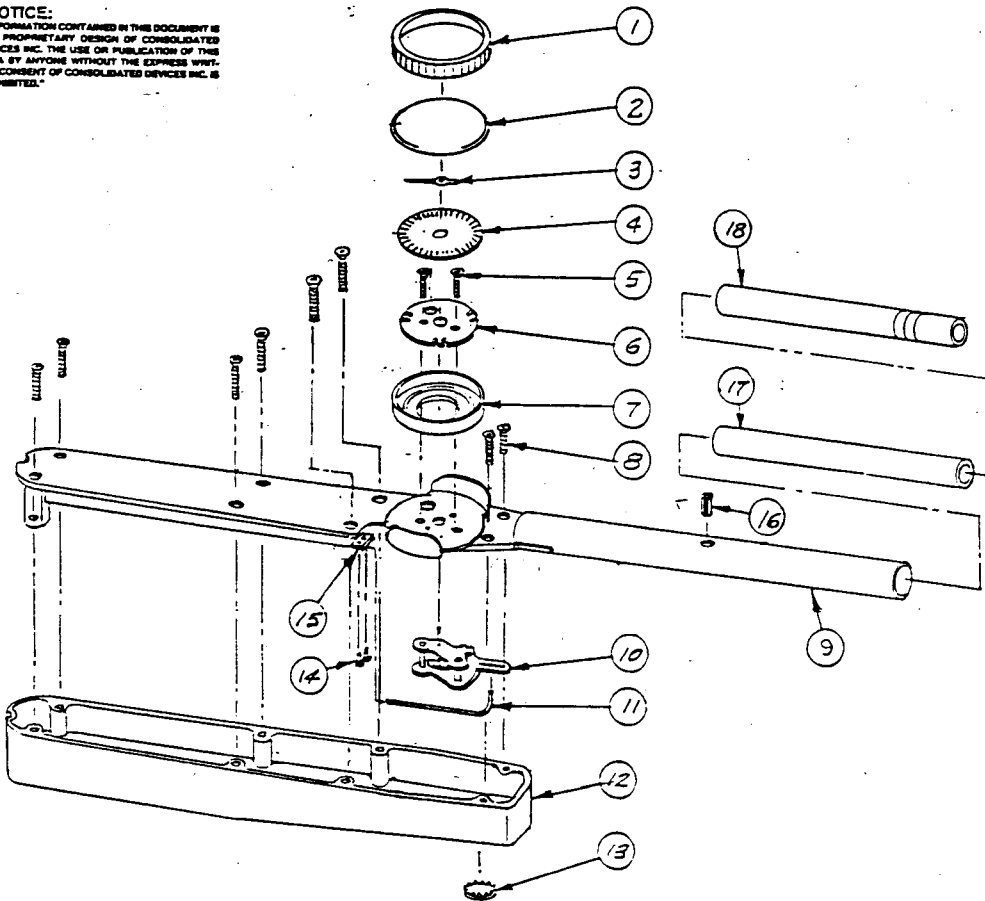
CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1" DR. (PLAIN)
2500 Nm & 1807 FT.LB. - PLASTIC HANDLE
ACESA

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	08-07-96	136-231-3

MOO # 27005NMR4

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 8 WAS 10-111-2	9-11-72	Jen

18	285-4A	TUBE, SECOND EXTENSION	1
17	285-4B	TUBE, FIRST EXTENSION	1
16	10-107-20	PIN, SPRING	1
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	285-5-2	CASE	1
11	80-11-2	PUSH ROD	1
10	10-113	MOVEMENT	1
9	288-11	HANDLE CHANNEL, BEAM & GUARD ASSY.	1
8	10-222-3	SCREW, SELF TAPPING, PLATE	8
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE	1
3	48-18-5	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 $\pm 1/32$ $\pm .01$ $\pm 1/4^\circ$
 $\pm .005$

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (PLAIN) 1/2 DR.
 3000 FT. LB. - 0-4000 N.M.

MATERIAL

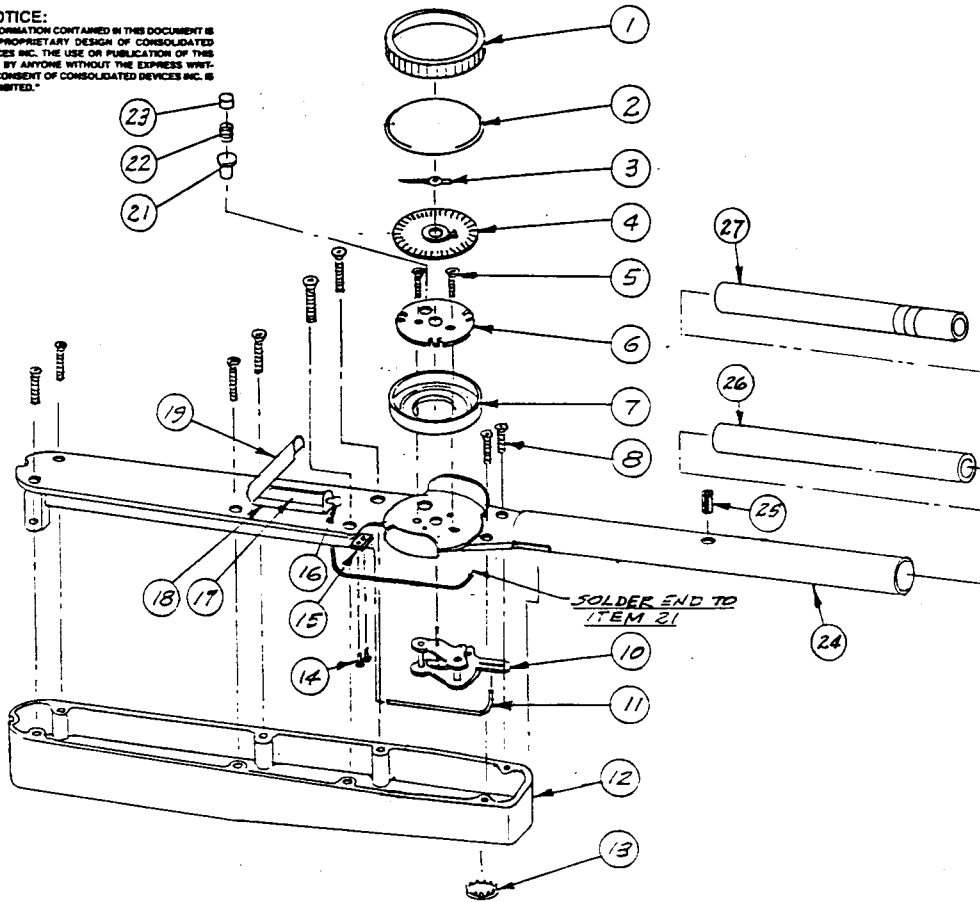
FRESH

DRAWN ZJS SCALE — DRAWING NO.
 APPROVED DATE

288-51-TAB

1	288-211-1	0-3000 FT. LB. 0-4000 N.M.	C.D.I. 30005 LDF
TAB. NO.	▲ SCALE	RANGE	CUST.

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△ ITEMS NO. 18 & 19 ARE PART OF THE
 PLATE & BATTERY HOUSING ASSY.
 (ITEM 24). ITEM NO 18 IS TACK
 WELDED TO PLATE.

NOTE:

1	48-139-13	0-3000 FT. LB. 0-4000 N.M	C.D.I. 30006 LDFE
TAB. NO.	△ SCALE ASSY.	RANGE	CUST.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 5 WAS 10-109-7	2-6-87	ZJS
ZJS	B	ITEM 8 WAS 10-111-4	9-11-92	ZJS

27	285-44	TUBE, SECOND EXTENSION	/
26	285-43	TUBE, FIRST EXTENSION	/
25	10-107-20	PIN, SPRING	/
24	48-109-11	PLATE & BATTERY HOUSING ASSY.	/
23	40-115	PLUNGER	/
22	10-105-2	SPRING	/
21	40-102	RETAINER, SPRING	/
19	40-107	LID, BATTERY HOUSING	/
18	40-112	BATTERY HOUSING ASSY.	/
17	40-113	BATTERY	/
16	40-98	G.E. LAMP NO. 112	/
15	80-12	CLAMP, PUSH ROD	/
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	/
12	285-5-2	CASE	/
11	80-11-2	PUSHROD	/
10	10-113	MOVEMENT	/
9			
8	10-222-3	SCREW, SELF TAPPING, PLATE	8
7	48-83	RING, BEZEL MOUNTING	/
6	40-82	PLATE, DIAL MOUNTING	/
5	10-109-23	SCREW, MACHINE FLAT HEAD	2
4	△	SCALE ASSY.	/
3	48-18-5	POINTER	/
2	48-91	CRYSTAL	/
1	48-84	BEZEL	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

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 DIMENSIONS ARE IN INCHES
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 FRACTIONS DECIMALS ANGLES
 ± 1/32 .XX ± .01 ± 1/4°
 .XXX = .005

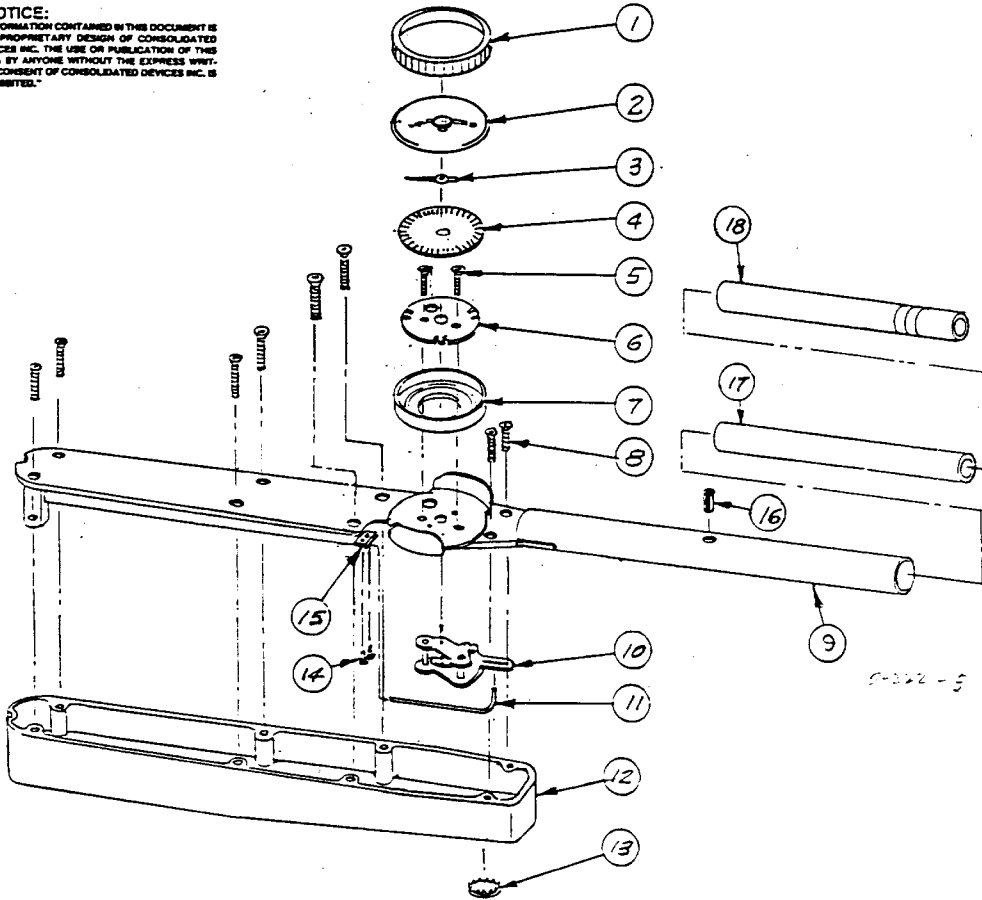
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (ELECTRIC) 1/2 DR.
 3000 FT. LB. - 0-4000 N.M

MATERIAL		
FINISH		
DRAWN	ZJS	SCALE —
APPROVED	[Signature]	DATE 8-6-96
		DRAWING NO. 288-71-TAB

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 9 WAS 288-11	2-6-87	[Signature]
ZJS	B	ITEM 5 WAS 10-109-7	9-11-92	[Signature]

18	285-44	TUBE, SECOND EXTENSION	/
17	285-43	TUBE, FIRST EXTENSION	/
16	10-107-20	PIN, SPRING	/
15	80-12	CLAMP, PUSH ROD	/
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	/
12	285-5-2	CASE	/
11	80-11-2	PUSHROD	/
10	10-113	MOVEMENT	/
9	48-108-15	HANDLE CHANNEL, BEAM & GUARD ASSY.	/
8	10-222-3	SCREW, SELF TAPPING, PLATE	8
7	48-83	RING, BEZEL MOUNTING	/
6	40-82	PLATE, DIAL MOUNTING	/
5	10-109-23	SCREW, MACHINE FLAT HEAD	2
4	△	SCALE	/
3	48-18-5	POINTER	/
2	48-132	MEMORY POINTER ASSY.	/
1	48-84	BEZEL	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 XX ± .01 ± 1/4° XXX ± .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
		EXPLODED ILLUSTRATION DIAL WRENCH (MEMORY) 1 1/2 DR. 3000 FT. LB. - 0-4000 N.m	
MATERIAL	FINISH	DRAWN ZJS	SCALE -
		APPROVED [Signature]	DATE 7-1-86
		DRAWING NO. 288-60-TAB	

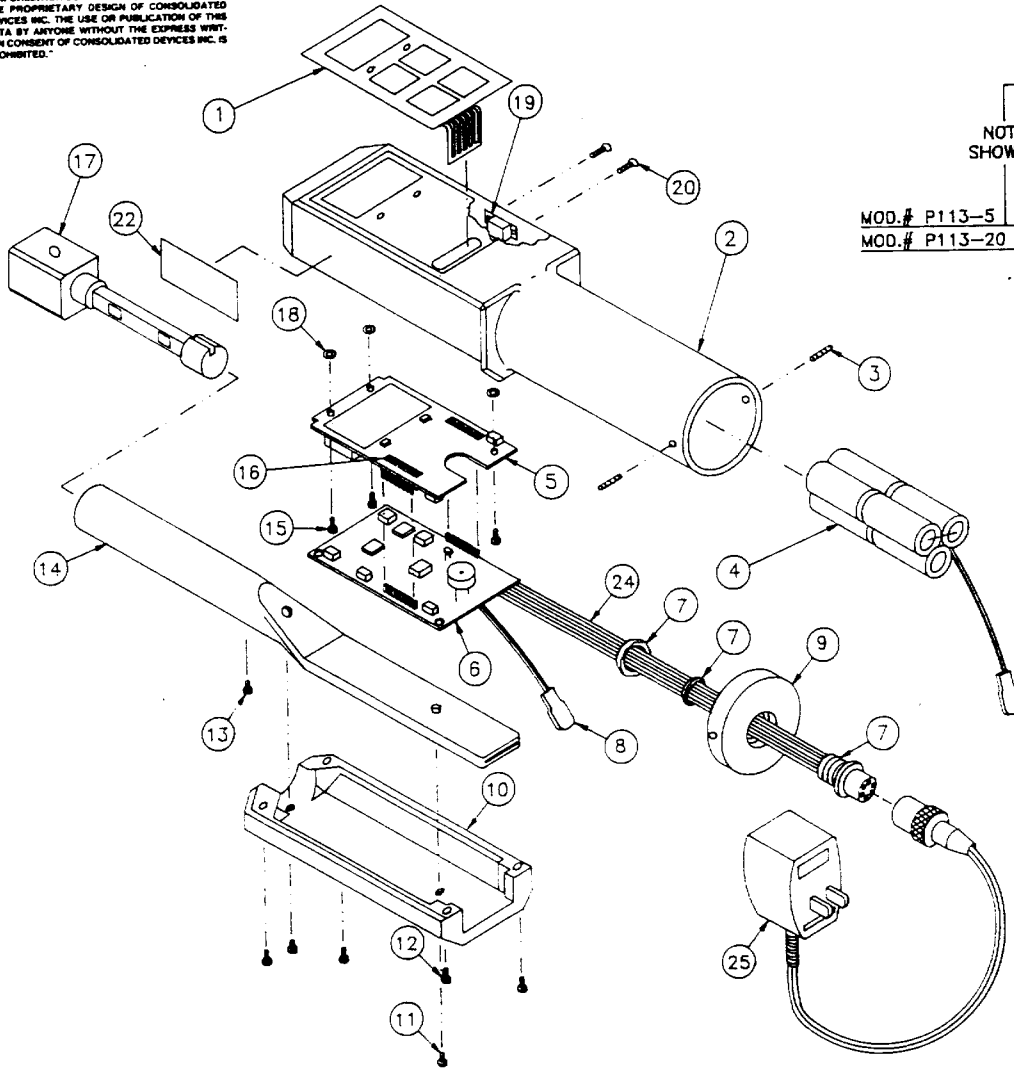
1	288-211-10	0-5000 FT.LB. 0-4000 N.m	C.D.I. 30006 LDFN
TAB. NO.	△ SCALE	RANGE	CUST.

① BISHOP GRAPHICS/ACCOMPRESS
REORDER NO. A2841

NOTE: UNCONTROLLED COPY

30006 LDFN

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NOTES:

NOTE: UNCONTROLLED COPY

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
sdg	G	ITEM 1 WAS 1100-31, ADD ITEMS 26 THRU 31.	2-22-94	Jay

NOT SHOWN
 MOD.# P113-5
 MOD.# P113-20

31	10-182	BOX, CARDBOARD, PACKAGING	1
30	1100-125-1	BOTTOM FOAM INSERT, PACKAGING	1
29	1100-125-2	TOP FOAM INSERT, PACKAGING	1
28	1100-86	PLASTIC CASE, PACKAGING	1
27	1100-93-2	INSERT TOOL-PLAIN DRIVE, 3/8 SQ.	1
26	1100-134	CABLE, PET "M" TO DIGIMATIC	1
25	1100-7	AC ADAPTER - POWER CORD ADAPTER	1
24	2000-100-36	RIBBON CABLE (10 IN.)	1
23			
22	1100-116	LABEL	1
21			
20	10-109-17	FLAT HEAD MAC. SCREW (2-56 X 3/16) SLOTTED	2
19	1100-20	SWITCH	1
18	10-205-3	WASHER (NYLON) 4-40	3
17	1100-100	SENSOR BEAM ASSEMBLY	1
16	1100-105-2	NYLON STRIP	2
15	10-225-18	BUTTON HEAD SOCKET CAP SCREW (4-40 X 1/4)	3
14	1100-14	TUBE	1
13	10-225-14	BUTTON HEAD SOCKET CAP SCREW (6-32 X 1/4)	1
12	10-128-21	HEX. SOCKET FLAT HEAD SCREW (6-32 X 3/8)	2
11	10-225-12	BUTTON HEAD SOCKET CAP SCREW (8-32 X 1/2)	4
10	1100-118-3	COVER (PRINTED)	1
9	1100-22	RETAINER, RECEPTACLE	1
8	81-37	BATTERY PLUG	1
7	1100-77	FEMALE RECEPTACLE, NUT & WASHER	1
6	1100-52-1	PC BOARD ASSEMBLY, ANALOG MITUTOYO	1
5	1100-24-1	PC BOARD ASSEMBLY, DIGITAL MITUTOYO	1
4	1100-5	BATTERY PACK	1
3	10-101-44	SOCKET SET SCREW (4-40 X 5/16 LONG)	2
2	1100-15-1	HOUSING	1
1	1100-27	DISPLAY BOARD (MITUTOYO) KEYPAD	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± .1/32 XX = .01 ° = 1/4°
 XXX = .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

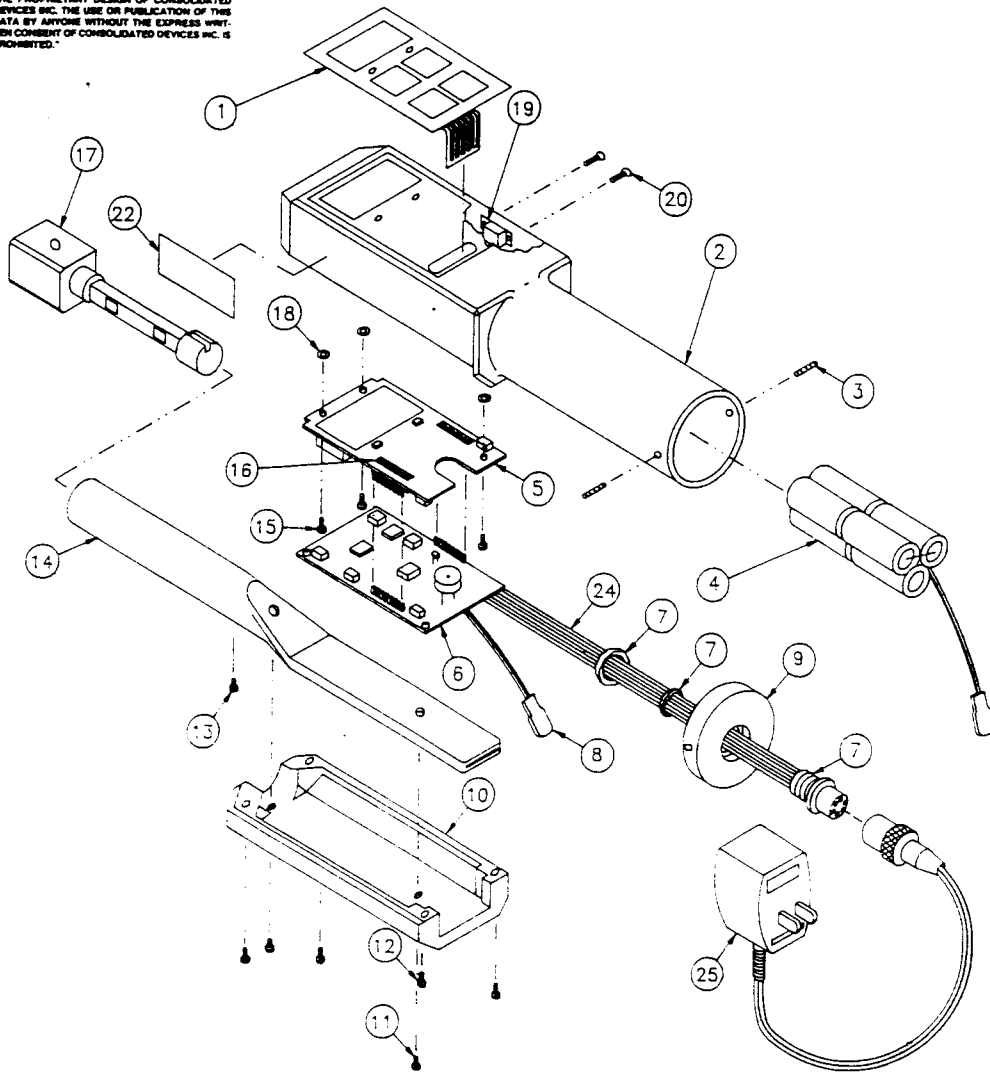
EXPLODED ILLUSTRATION
 300 IN.LB. P.E.T.

SERIES 1100 CDI M-SERIES

DRAWN	sdg	SCALE	NONE	DRAWING NO.	1100-0-2
APPROVED	J.D.	DATE	11-9-92		

3002-F-PET-M

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NOTES:

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED

25	1100-7	AC ADAPTER	1
24	2000-100-36	RIBBON CABLE (10 IN.)	1
23			
22	1100-116	LABEL	1
21			
20	10-109-17	FLAT HEAD MAC. SCREW (2-56 X 3/16) SLOTTED	2
19	1100-20	SWITCH	1
18	10-205-3	WASHER (NYLON) 4-40	3
17	1100-100	SENSOR BEAM ASSEMBLY	1
16	1100-105-2	NYLON STRIP	2
15	10-225-18	BUTTON HEAD SOCKET CAP SCREW (4-40 X 1/4)	3
14	1100-14	TUBE	1
13	10-225-14	BUTTON HEAD SOCKET CAP SCREW (6-32 X 1/4)	1
12	10-128-21	HEX. SOCKET FLAT HEAD SCREW (6-32 X 3/8)	2
11	10-225-12	BUTTON HEAD SOCKET CAP SCREW (8-32 X 1/2)	4
10	1100-118-3	COVER (PRINTED)	1
9	1100-22	RETAINER, RECEPTACLE	1
8	81-37	BATTERY PLUG	1
7	1100-77	FEMALE RECEPTACLE, NUT & WASHER	1
6	1100-52-1	PC BOARD ASSEMBLY, ANALOG MITUTOYO # R SER.	1
5	1100-24-3	PC BOARD ASSEMBLY, DIGITAL R SER.	1
4	1100-5	BATTERY PACK	1
3	10-101-44	SOCKET SET SCREW (4-40 X 5/16 LONG)	2
2	1100-15-1	HOUSING	1
1	1100-27	DISPLAY BOARD (MITUTOYO) KEYPAD	1

CODE IDENT	PART NO.	DESCRIPTION	REQO
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .XX ± .01 = 1/4°
 .XXX = .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

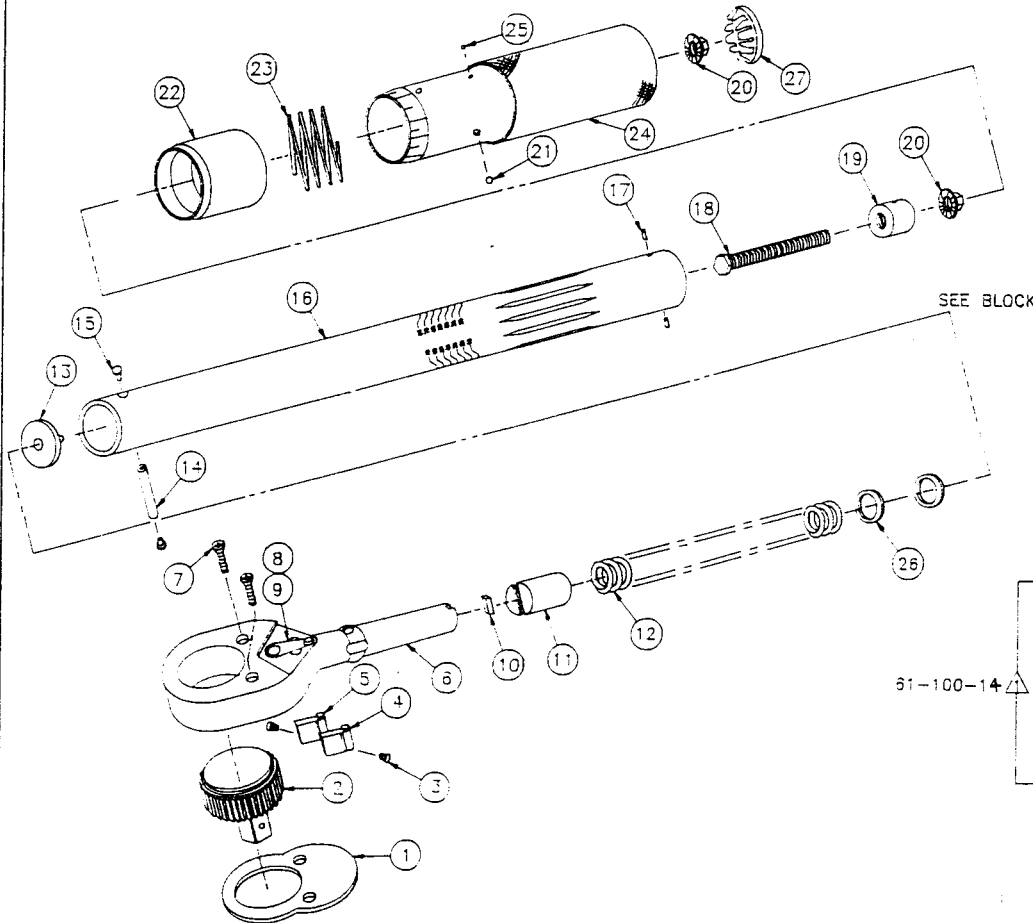
EXPLODED ILLUSTRATION
 300 IN.LB. P.E.T. SER. R

SERIES 1100		DRAWING NO.	
DRAWN <i>del</i>	SCALE NONE	DRAWING NO. 1100-0-14	
APPROVED <i>Ray</i>	DATE 1-13-74		

3002-I-PET-R

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ADD TAB NO. 2	10-04-95	<i>Jon</i>
A.M.V.	B	61-100-10 WAS 61-100-8, 61-100-14 WAS 61-100-12	04-22-96	<i>AM</i>



27	10-103-1	BUTTON PLUG	1
26	10-104-2	WASHER, FLAT	AR
25	10-106-1	BALL 3/32	1
24	61-348-3	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-1	LOAD SCREW	1
17	10-106-5	BALL	2
16	61-254-3	TUBE, (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-266	SPRING, TORQUE	1
11	50-16	CAM	1
10	50-18	PAWL	1
9		REVERSING CAM	1
8		REVERSING LEVER	1
7		SCREW	2
6		RATCHET BODY	1
5		DOG-RIGHT	1
4		DOG-LEFT	1
3		SPRING	2
2		RATCHET WHEEL	1
1		PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .001 .01 ±1/2°
 .0001 .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/8 DR. RATCHET
 300 cm.kg

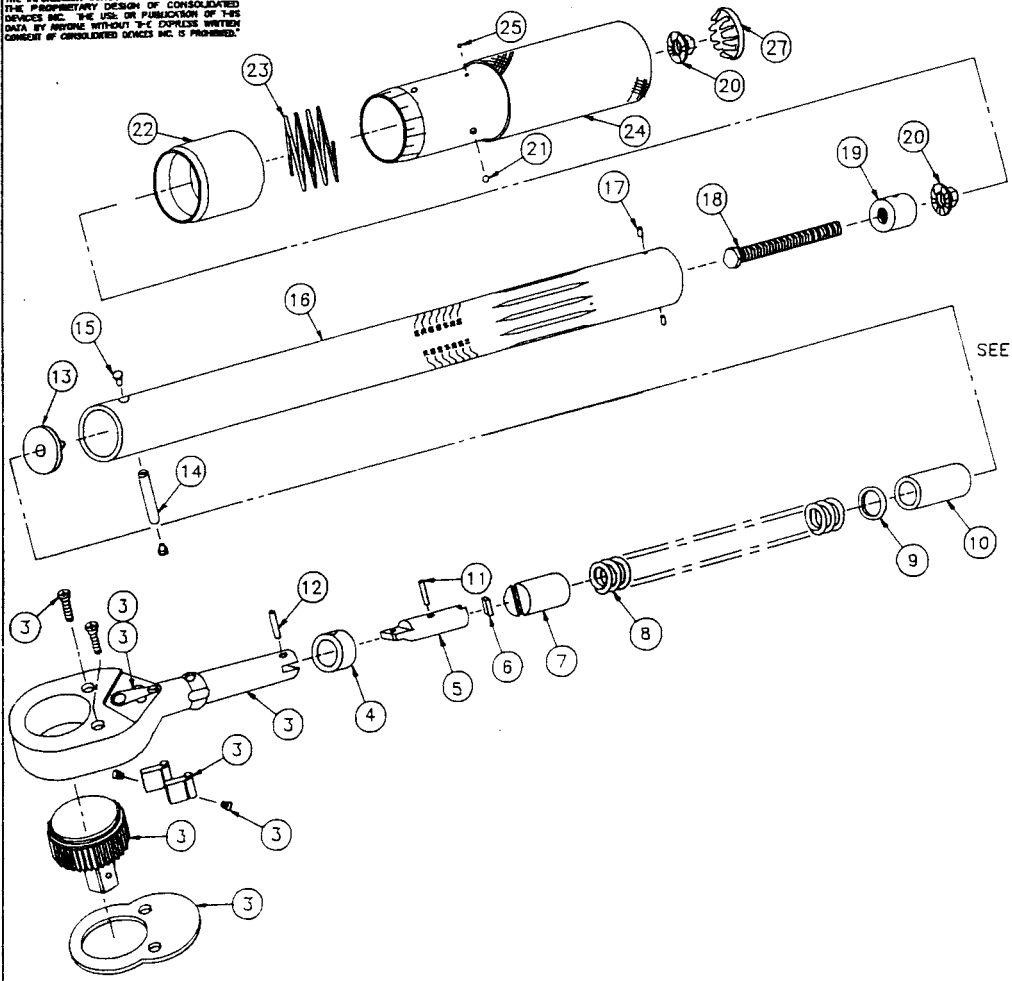
2	61-446-8	CDI 3002KMRMH
1	61-280-3	OLY 300QLM
TAB #	ITEM 22 △	CUSTOMER

△ PURCHASED AS ASSEMBLY P/N 61-100-10
 NOTES:

MATERIAL	FINISH	DRAWN	SCALE	DATE	DRAWING NO.
		<i>del</i>	NONE	4-7-95	61-536-TAB
		APPROVED <i>Jon</i>			

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SEE TAB

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ADD - 2	10-24-95	Joy

27	10-103-3	BUTTON PLUG	1
25	10-106-1	BALL (3/32)	1
24	47-348-11	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-2	ADJUSTING SCREW	1
17	47-240	PIN	2
16	96-208-2	TUBE (ROLLSTAMP)	1
15	45-92	RVLET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	1
9	10-104-1	WASHER, FLAT	A/R
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
▲ 3	96-500-8	RATCHET BODY ASSEMBLY	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

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 FRACTIONS DECIMALS ANGLES
 ±1/32 ±.01 ±1/2°
 .004 .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. RATCHET
 300 Nm & 214 FT.LB.

MATERIAL

FINISH

DRAWN	SCALE	NONE	DRAWING NO.
Joy			96-633-TAB
APPROVED	DATE	6-16-95	

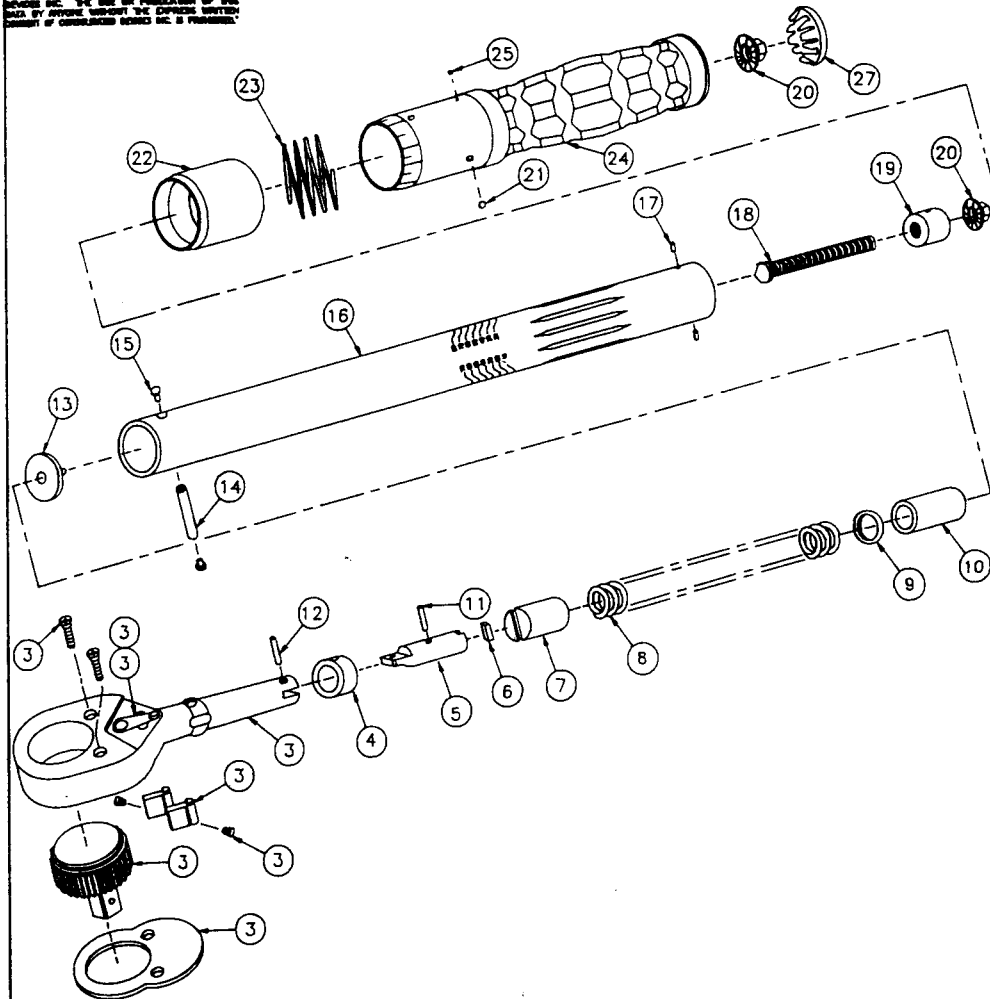
- 2	47-646-16	CDI	3003NMRMH
- 1	47-270-16	CARLSONS	3003NMRMH
TAB #	"A"	CUSTOMER	MODEL #
	ITEM # 22		

▲ PURCHASED AS ASSEMBLY, PART NO. 96-500-8.
 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

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△ PURCHASED AS ASSEMBLY, PART NO. 96-500-8.

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

-1	96-209-2	CDI	3003NMRPH
TAB #	"A" ITEM # 22	CUSTOMER	MODEL #

BY	LTR	DESCRIPTION	DATE	APPROVED
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27	10-103-3	BUTTON PLUG	1
26			
25	10-106-5	BALL (5/32)	1
24	47-344-7	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22	47-346	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-2	ADJUSTING SCREW	1
17	47-240	PIN	2
16	△	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	1
9	10-104-1	WASHER, FLAT	A/R
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	96-500-8	RATCHET BODY ASSEMBLY	1

△

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .001 ±.01 ±1/2°
 .0002 .005

MATERIAL

FINISH

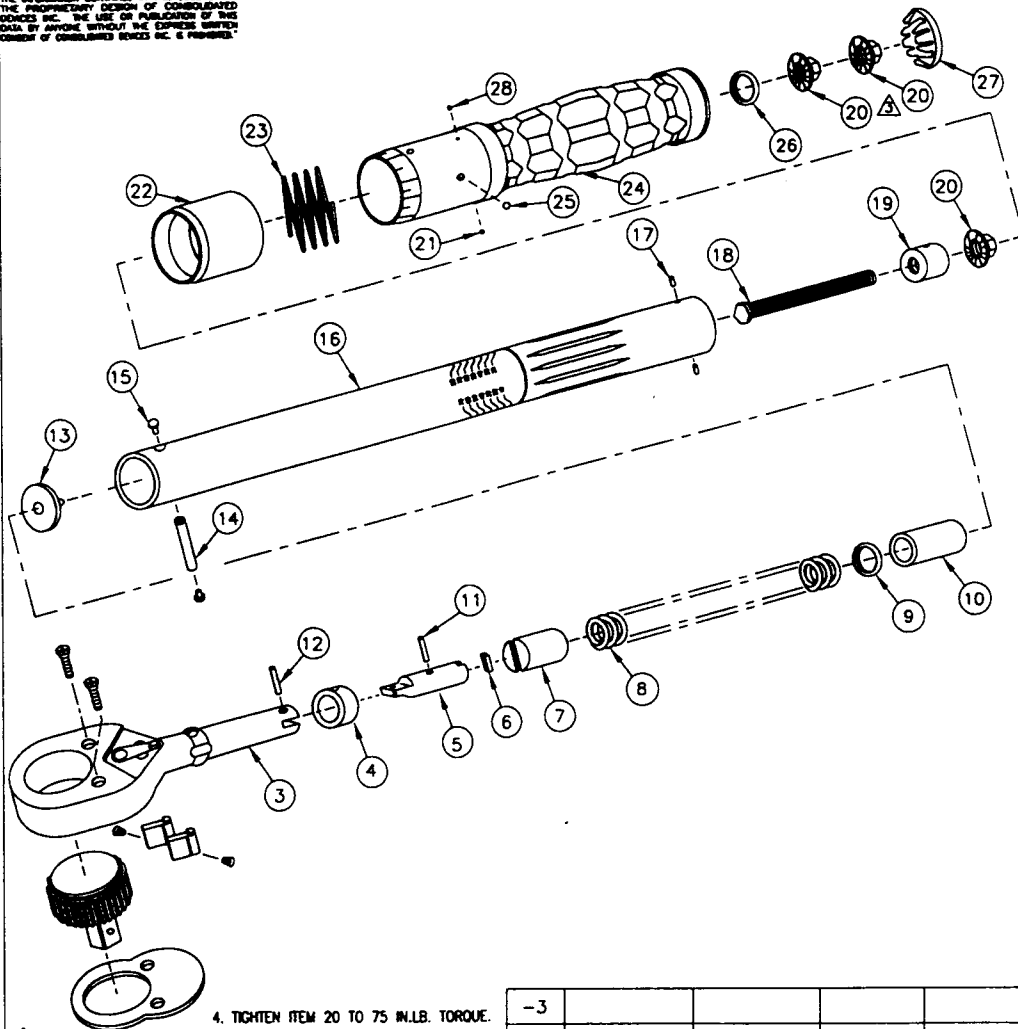
CONSOLIDATED DEVICES, INC.
 City of Industry, California
EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. RATCHET
 300 Nm PLASTIC HANDLE

DRAWN	SCALE NONE	DRAWING NO.
APPROVED	DATE 1-12-96	96-733-TAB

NOTE: UNCONTROLLED COPY

3003NMRPH

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4. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.

3. ITEM 20 ASSEMBLY AS SHOWN.

2. PURCHASED AS ASSEMBLY 96-500-8.

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

-3				
-2	96-208-2	47-680-16	OLY	3000LN
-1	96-208-2	47-276-16	EUR/ACESA	Nº 3700.014
TAB NO.	ITEM NO. 16	ITEM NO. 22	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	C	ITEM 20 WAS REQ'D. 2, ADD NOTES 3 & 4	8-14-96	<i>[Signature]</i>

29			
28	10-106-2	BALL (.1094 DIA.)	1
27	10-103-3	BUTTON PLUG	1
26	10-304	WASHER	1
25	10-106-5	BALL (5/32)	1
24	47-344-17	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	3
19	47-241	INSERT, TUBE	1
18	47-342-2	ADJUSTING SCREW	1
17	47-240	PIN	2
16	▲	TUBE (ROLL STAMP)	1
15	45-92	RVMET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	1
9	10-104-1	WASHER, FLAT	A/R
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	96-500-8	RATCHET BODY ASSEMBLY	1
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .001 .01 ±1/2°
XXX .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.

City of Industry, California

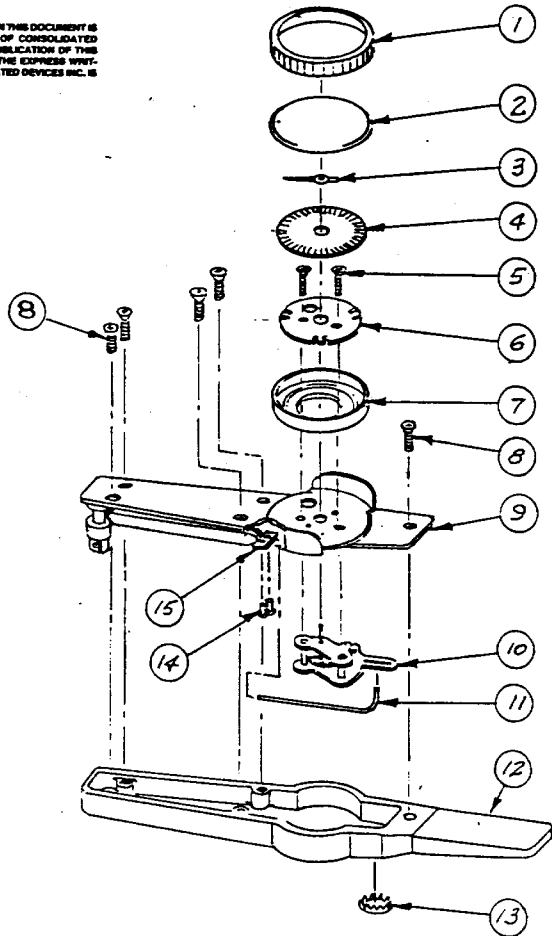
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1/2 DR. RATCHET
300 Nm & 214 FT.LB. - PLASTIC HANDLE

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>[Signature]</i>	DATE	07-29-96	96-734-TAB

NOTE: UNCONTROLLED COPY

REF. CDI 3003NMRPH

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 12 WAS 238-41-1	8/14/90	ZJS
SP	B	ADD TAB 2 A	12/9/91	707
ZJS	C	ITEM 8 WAS 10-111-3 ITEM 16 WAS 10-111-5	9/11/92	707
SP	D	REMOVE ITEM 16, ITEM 8 WAS 10-111-3	8/2/93	707

15	40-145	CLAMP PUSH ROD	1
14	10-110-1	SCREW, MACH. ROUND HEAD	2
13	10-109-2	BUTTON PLUG	1
12	230-240-4	CASE	1
11	80-11-3	PUSHROD	1
10	10-113	MOVEMENT	1
9	A	DRIVE PLATE & GUARD ASSY.	1
8	10-022-6	SCREW, SELF TAPPING - BEAR.	5
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	A	SCALE	1
3	48-18-1	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 XX ± .01 ± 1/4°
 .XXX ± .005

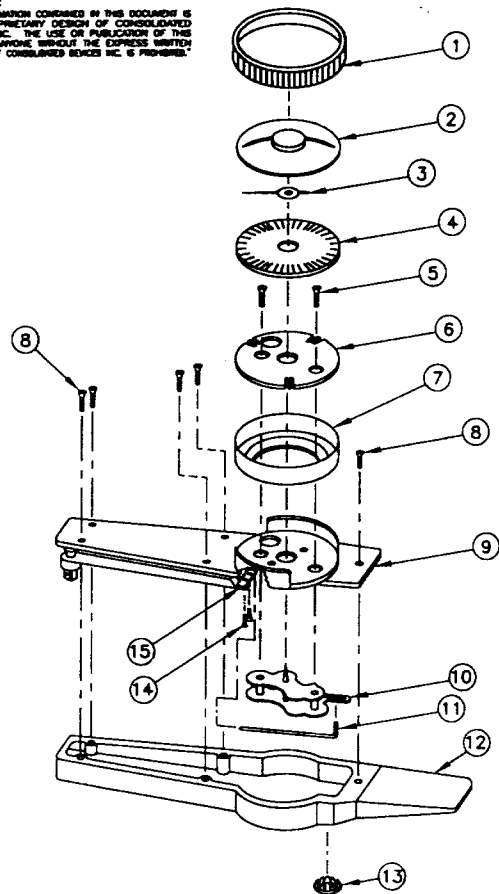
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (PLAIN) 1/4 DR.
 0-30 IN. LB. - 0-3.5 NM

G.S.A.	2	48-208-32	238-200-1	0-30 IN. LB. 0-3.5 NM	301 LD1
	1	48-208-2	238-200-1	0-30 IN. LB. 0-3.5 NM	C.O.I. 301 LD1
TAB No.		A	A SCALE	RANGE	CUST.

DRAWN	ZJS	SCALE	—	DRAWING NO.	238-150-TAB
APPROVED	<i>[Signature]</i>	DATE	6/12/89		

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	N	ADD TAB NO. 12	6-16-89	[Signature]

16				
15	40-145	CLAMP, PUSH ROD		1
14	10-110-1	SCREW, MACH. ROUND HEAD		2
13	10-103-2	BUTTON PLUG		1
12	230-240-4	CASE		1
11	80-11-3	PUSH ROD		1
10	10-113	MOVEMENT		1
9	[Symbol]	DRIVE, PLATE & GUARD ASSEMBLY		1
8	10-222-6	SCREW, SELF TAPPING - REAR		5
7	48-83	RING, BEZEL MOUNTING		1
6	40-82	PLATE, DIAL MOUNTING		1
5	10-109-3	SCREW, MACHINE FLAT HEAD		2
4	[Symbol]	SCALE		1
3	48-18-1	POINTER		1
2	48-132	MEMORY POINTER ASSEMBLY		1
1	48-84	BEZEL		1
ITEM	PART NO.	DESCRIPTION		REQ'D

13					
12	48-208-2	238-200-42	0-30 IN.LB. 0-3.5 Nm	CARLSON 301LDIN	
11	48-208-2	238-200-24	0-30 IN.LB. 0-3.5 Nm	MAC TWD430IN	
10	48-208-2	238-200-62	0-30 IN.LB. 0-3.5 Nm	V. BELKNAP V81 301LDIN	
9	48-208-2	238-221-9	0-35 CMKP 0-35 dNm	H.WERNER 301LDIN-HW	
8	48-208-2	238-213-65	0-35 CMKG 0-30 IN.LB.	C.D.I. 301KLDIN	
7	48-208-2	238-200-53	0-30 IN.LB. 0-3.5 Nm	WRIGHT TOOL 2470	
6	48-208-2	238-213-42	0-35 CMKG 0-30 IN.LB.	CARLSON 301KLDIN	
5	48-208-2	238-213-60	0-35 KOCM 0-30 IN.LB.	OLY 35D84	
4	48-208-2	238-213-13	0-30 IN.LB. 0-35 CMKG	PROTO	
3	48-208-2	238-200-52	0-30 IN.LB. 0-3.5 Nm	T & E TOOLS	
2	48-208-32	238-200-10	0-30 IN.LB. 0-3.5 Nm	301LDIN	
1	48-208-2	238-200-10	0-30 IN.LB. 0-3.5 Nm	C.D.I. 301LDIN	
TAB NO.	[Symbol]	[Symbol]	SCALE	RANGE	CUSTOMER

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 ±.01 ±1/2°
 ±.002 ±.005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH 1/4 DR. (MEMORY) TORSION
 0-30 IN.LB. 0-3.5 Nm

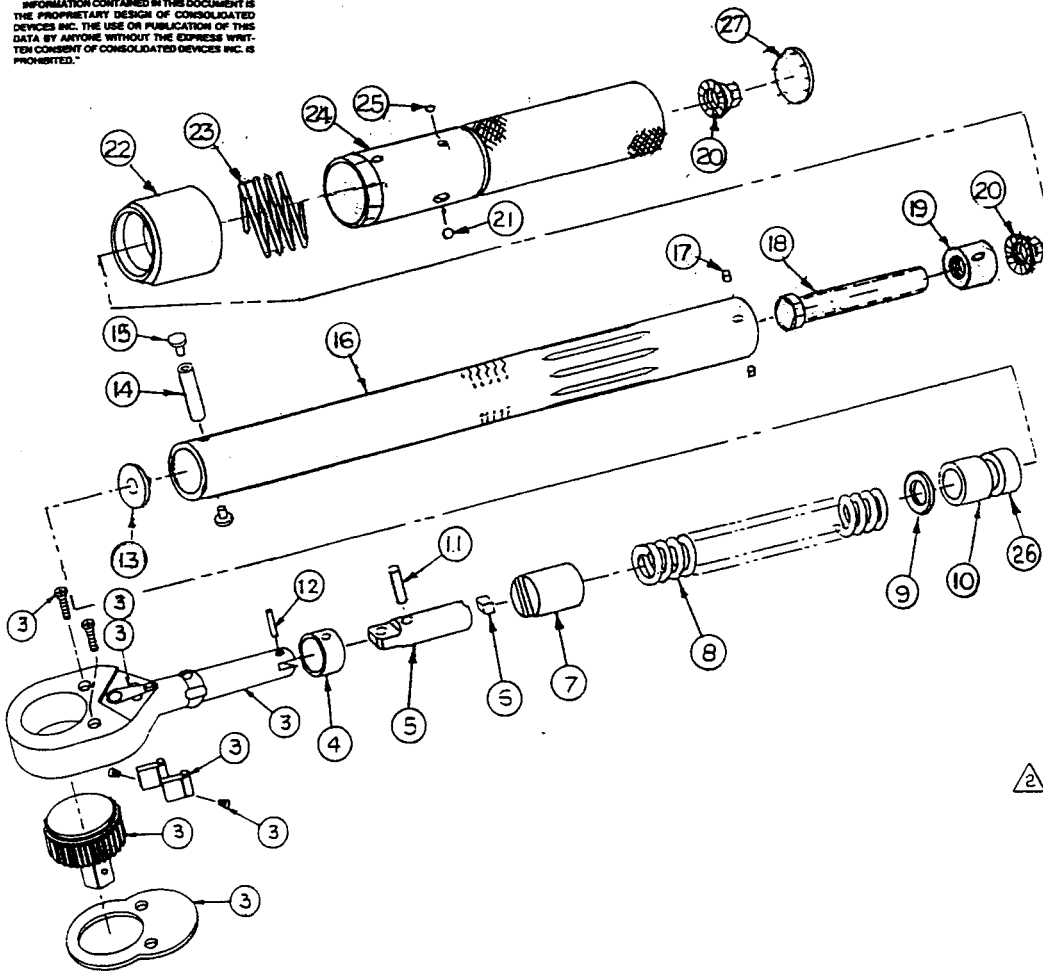
DRAWN	ZJS	SCALE	NONE	DRAWING NO.
APPROVED	Z.K.	DATE	06-13-89	238-160-TAB

NOTES:

NOTE: UNCONTROLLED COPY

301LDIN (TORSION)

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ADD Δ , OMIT ITEMS 1 & 2, Δ WAS 95-93-1	04-06-95	Jay
A.M.V.	B	ADD ITEM 26, ITEM 5 WAS 61-61	06-21-95	Jay
A.M.V.	C	ADD - 2	10-04-95	Jay

27	10-03-3	BUTTON PLUG	/
26	95-28-2	SPACER	/
25	10-106-1	BALL (3/32)	/
24	47-448-1	HANDLE ASS'Y. (ROLL STAMP)	/
23	47-249	SPRING, LOCK RING	/
22	A	LOCK RING	/
21	70-106-B	BALL (1/8)	/
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	/
18	47-342-2	LOAD SCREW	/
17	47-280	PIN	2
16	96-206-2	TUBE, (ROLL STAMP)	/
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	/
12	45-250	PIN, ROLLER	/
11	10-102-24	PIN, FULCRUM	/
10	95-28-1	SPACER	/
9	10-104-1	WASHER, FLAT	AIR
8	95-93	SPRING, TORQUE	/
7	45-251	CAM	/
6	45-253-1	PAWL	/
5	61-62	SECONDARY ARM	/
4	61-60	FULCRUM	/
3	96-500-8	RATCHET BODY ASS'Y.	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
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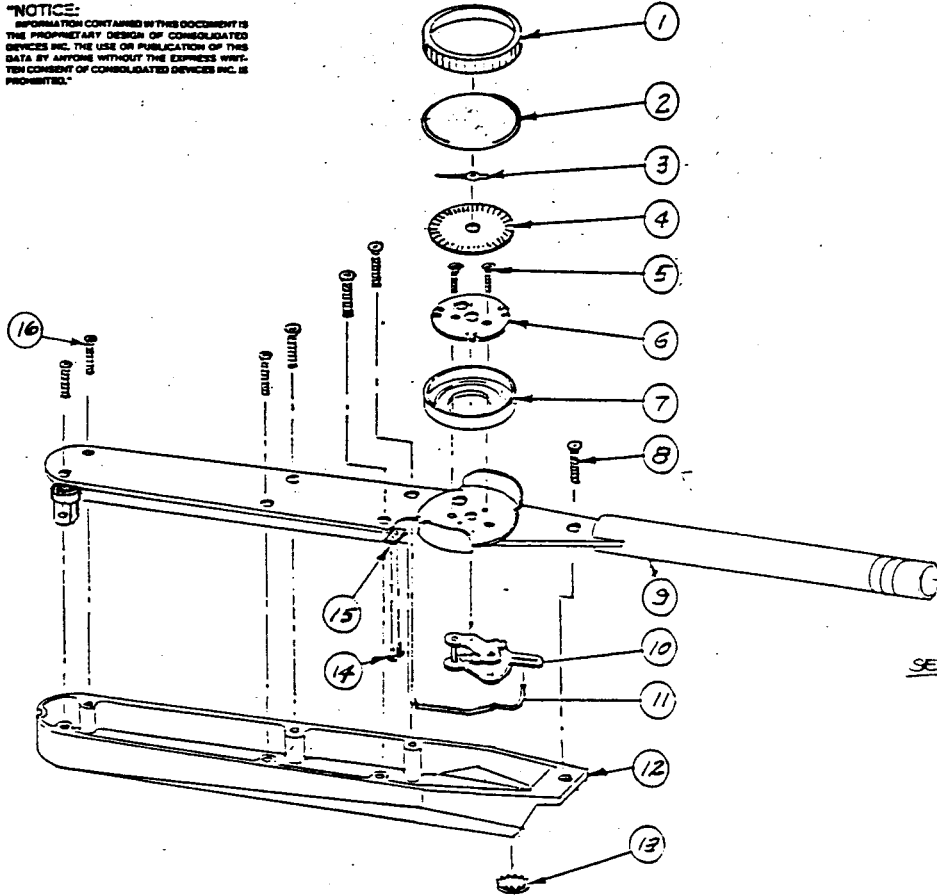
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES = 1/32 XX \pm .01 \pm 1/4 XXX = .005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 1/2 DR. RATCHET			
MATERIAL		SEX 9G 30KgM	
FINISH		DRAWN A.M.V. SCALE — DRAWING NO.	
		APPROVED Jay DATE 03-10-95 96-533-TAB	

-2	47-446-16	CDI	303 KMRMH
-1	47-280-16	OLY	3000 QLM
TAB NO.	Δ ITEM # 22	CUSTOMER	MODEL NO.

Δ PURCHASED AS ASS'Y. P/N 96-500-8
 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB
 NOTE:

NOTE: UNCONTROLLED COPY

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SEE TAB

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
90	A	ADD TAB 2 & A	12-7-91	Jay
80	B	ITEM 11 WAS 84-11-2	2-25-92	Jay
ZJS	C	ITEM 8 WAS 10-111-8 ITEM 16 WAS 10-165-2	9-11-92	Jay
JK	D	ITEM 9 WAS 10-235-1	8-16-92	Jay
JK	E	ITEM 5 WAS 10-109-3	3-3-94	Jay

16	10-235-1	SCREW, SELF TAPPING, PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	90-104	CASE	1
11	80-11-2	PUSHROD	1
10	10-113	MOVEMENT	1
9	A	HANDLE CHANNEL, BEAM & GUARD ASSY.	1
8	10-235-3	SCREW, SELF TAPPING, REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4	A	SCALE	1
3	48-18-3	POINTER	1
2	48-71	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .XX ±.01 ± 1/2°
 .XXX = .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (PLAIN) 3/4 DR.
 0-350 FT. LB. - 0-480 N.M.

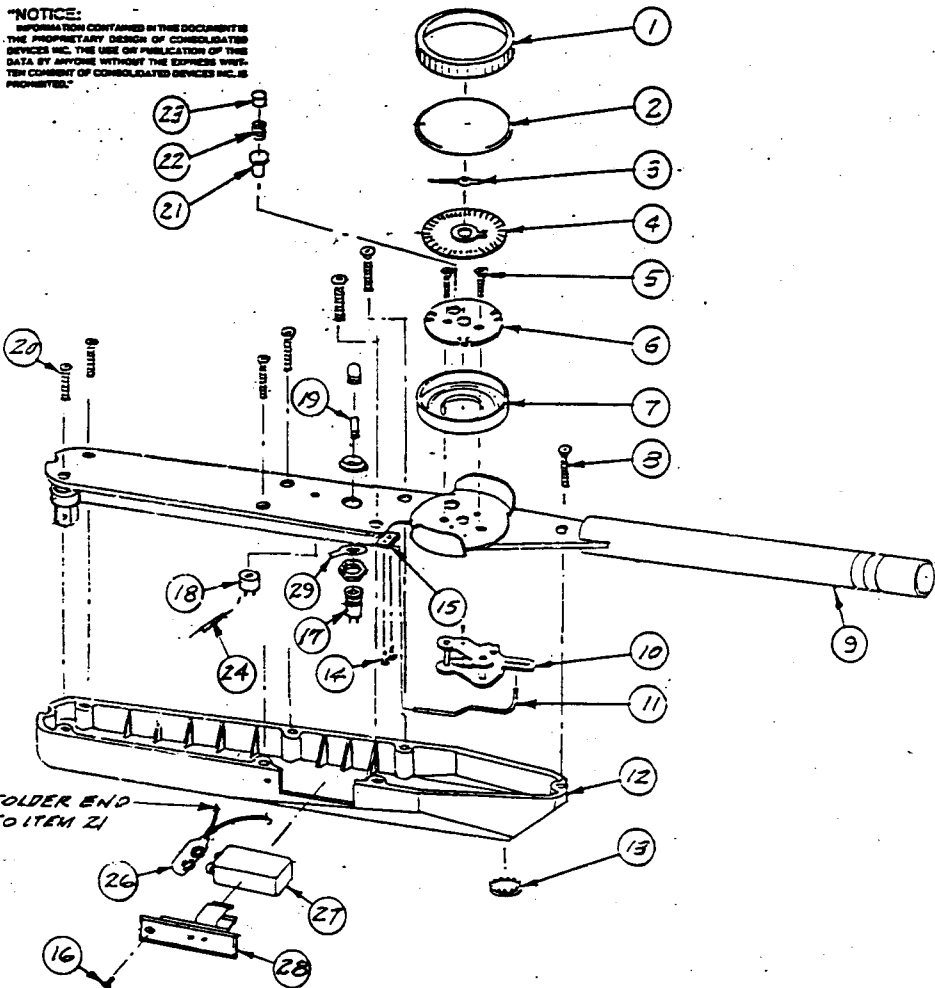
MATERIAL
 FINISH

DRAWN ZJS | SCALE — | DRAWING NO.
 APPROVED [Signature] | DATE 3/22/81 | 98-150-TAB

	G.S.A.	Z	48-208-41	98-201-1	0-350 FT. LB. 0-480 Nm	9504 LDF
		1	48-208-12	98-201-1	0-350 FT. LB. 0-480 Nm	C.O.L. 5504 LDF
TAB NO.		A	SCALE	RANGE		CUST.

NOTE:

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1. SEE DWG. 94-10 WIRING DETAIL FOR PARTS NOT SHOWN. REF. MOUNTING DEVICE PN 44-9, CABLE TIE PN 44-B,

NOTE:

3	48-139-19	0-480 N.M. 0-48 MKP	N. WERNER 7120E
2	48-139-6A	0-350 FT. LB. 0-480 N.M.	CAT 905015
1	48-139-9	0-350 FT. LB. 0-480 N.M.	CPL 3504LDFE
TAB. NO.	SCALE ASSY.	RANGE	CURR.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	E	ITEM 8 WAS 10-165-4 ITEM 20 WAS 10-168-2	9-11-92	ZJS
JR	F	ADD PIN FOR SCALE ASSY TO - 3	12/22/93	ZJS
JR	G	ITEM 5 WAS 10-109-3	3-3-94	JR

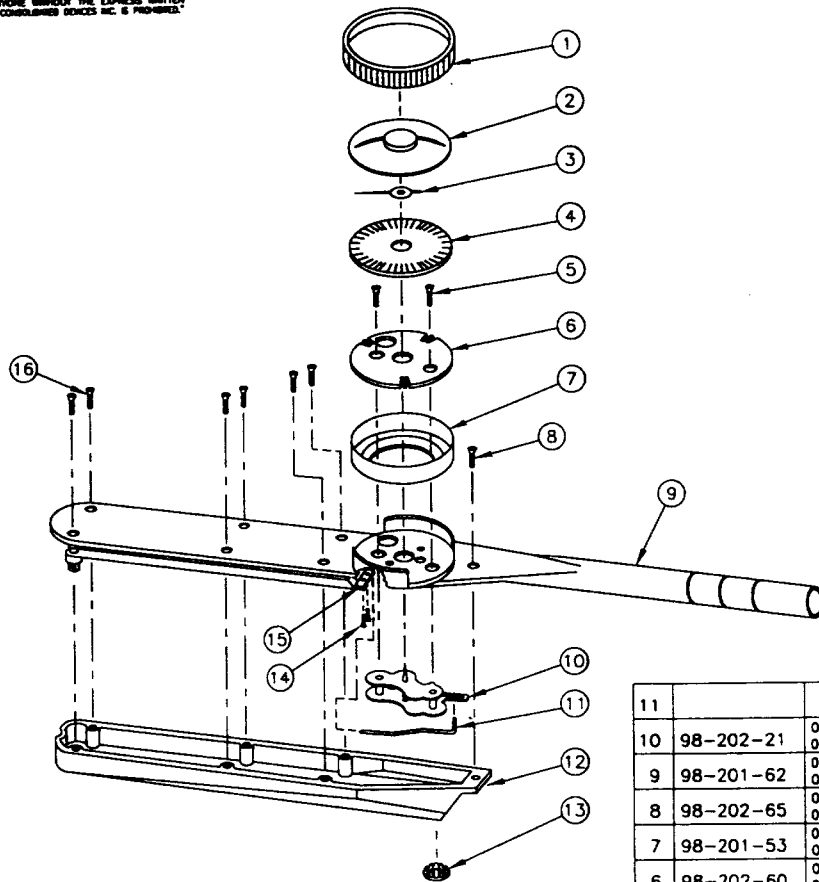
30	44-B	CABLE TIE (NOT SHOWN)	
29	44-7	FLAT SOLDER TERMINAL	1
28	94-19	COVER & CLIP ASSY.	1
27	81-6	BATTERY	1
26	81-37	BATTERY PLUG	1
25	44-9	MOUNTING DEVICE (NOT SHOWN)	1
24	81-19-11	RESISTOR, CARBON FILM	1
23	40-115	PLUNGER	1
22	10-105-2	SPRING	1
21	40-102	RETAINER, SPRING	1
20	10-235-1	SCREW, SELF TAPPING	6
19	44-6	LAMP	1
18	81-28	BUZZER	1
17	44-5	LAMP HOLDER	1
16	10-227-1	FL. HD TAPPING SCREW	1
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	94-40-1	CASE, PLASTIC	1
11	80-11-2	PUSHROD	1
10	10-113	MOVEMENT	1
9	44-208-10	PLATE & GUARD ASSY.	1
8	10-235-3	SCREW, SELF TAPPING	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE ASSY., ELECTRIC	1
3	18-18-3	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES 1/2" DECIMALS ANGLES ± 0.010 ± 0.010 ± 0.010			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION 1/2 DR. DIAL WRENCH (ELECTRIC)			
350 FT. LB. 0-480 N.M. TORSION			
DRAWN	ZJS	SCALE	DRAWING NO.
APPROVED	JR	DATE	3/22/91.
			94-170-TAB

3504LDFE

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	L	RELE PLASTIC CASE (Δ), (Δ), (Δ) TO PMS LIST & 98-712-9 TO DRG NO. 3	2-17-99	<i>ja</i>



ITEM	PART NO.	DESCRIPTION	REQ'D
17			
16	10-221-1	SCREW SELF TAPPING-PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	90-15-2	CASE ALUMINUM	1
11	80-11-2	PUSH ROD	1
10	10-113	MOVEMENT	1
9	48-208-12	HANDLE, CHANNE, PLATE & GUARD ASSEMBLY	1
8	10-221-2	SCREW, SELF TAPPING - REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4	Δ	SCALE	1
3	48-18-3	POINTER	1
2	48-132	MEMORY POINTER ASSEMBLY	1
1	48-84	BEZEL	1

11			
10	98-202-21	0-50 MKG 0-350 FT.LB.	URREA 6134-A
9	98-201-62	0-350 FT.LB. 0-480 Nm	V. BELKNAP VB 3504LDFN
8	98-202-65	0-50 MKG 0-350 FT.LB.	CDI 3504HDFN
7	98-201-53	0-350 FT.LB. 0-480 Nm	WRIGHT TOOL 6471
6	98-202-60	0-48 KGM 0-350 FT.LB.	OLY 4800084
5	98-204-10	0-350 FT.LB. 0-50 MKG	CDI
4	98-201-8	0-350 FT.LB. 0-480 Nm	WILLIAMS NTD-2-350F
3	98-212-9	0-480 Nm 0-48 MKG	H. WERNER 7110E
2	98-202-10	0-350 FT.LB. 0-48 MKG	CDI 3504LDFN
1	98-201-10	0-350 FT.LB. 0-480 Nm	CDI 3504LDFN
TAB NO.	Δ	SCALE	RANGE CUSTOMER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/32 ± .01 ± 1/2°
± .005 ± .005

MATERIAL:
FINISH:

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
DIAL WRENCH 3/4 DR. (MEMORY) TORSION
0-350 FT.LB. 0-480 Nm

DRAWN	Z.J.S.	SCALE	NONE	DRAWING NO.
APPROVED	Z.K.	DATE	03-22-91	98-160-TAB

FOR G.S.A. ITEM 9 IS 48-208-41

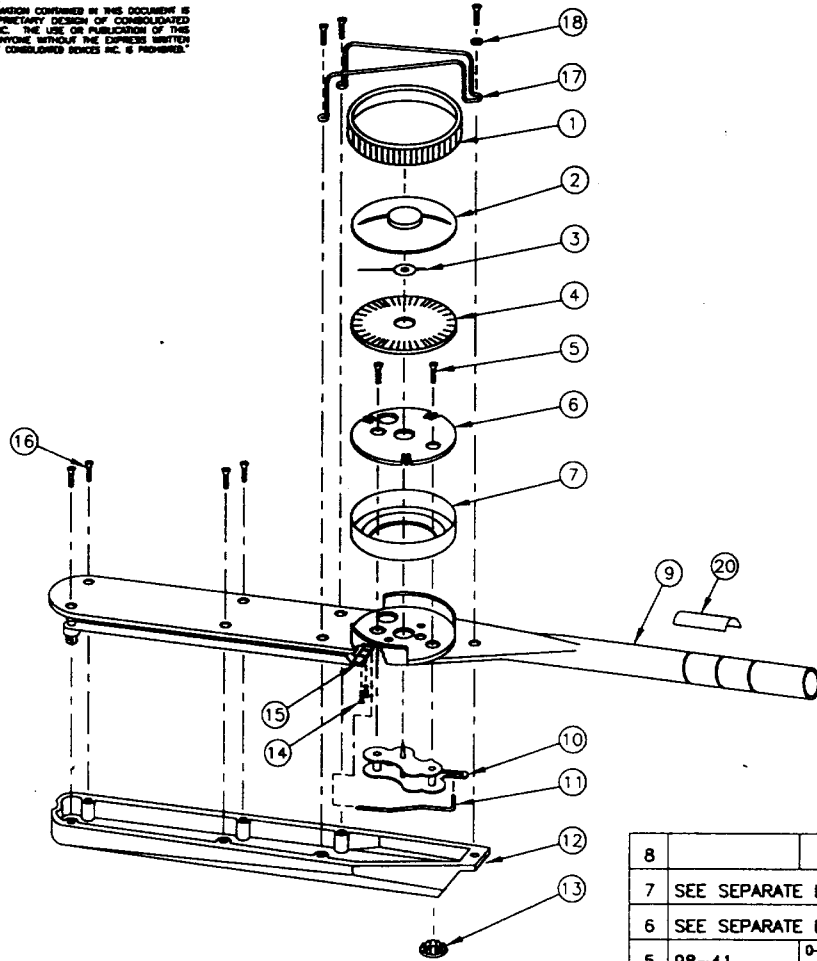
NOTES:

NOTE: UNCONTROLLED COPY

3504 LDFN

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	1	ADD TAB NO. 7	8-3-99	<i>Jay</i>



20	15-60	LABEL, WARNING	1
19	90-74-1	BOX (NOT SHOWN)	1
18	10-104-7	WASHER, FLAT	1
17	98-45	GUARD, DIAL WIRE	1
16	10-221-1	SCREW SELF TAPPING-PLATE	7
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	90-15-2	CASE (ALUMINUM)	1
11	80-11-2	PUSH ROD	1
10	10-113	MOVEMENT	1
9	48-208-12	HANDLE, CHANNE, PLATE & GUARD ASSEMBLY	1
8			
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE	1
3	48-18-3	POINTER	1
2	48-132	MEMORY POINTER ASSEMBLY	1
1	48-84	BEZEL	1
ITEM	PART NO.	DESCRIPTION	REQ'D

8			
7	SEE SEPARATE DWG.		KTC CMD484
6	SEE SEPARATE DWG.		PROTO 6134A
5	98-41	0-350 FT.LB. 0-480 Nm	C.S.E. 3504LDFNW
4	98-23-26	0-350 FT.LB. 0-480 Nm	ARMSTRONG 84-452
3	98-201-8	0-350 FT.LB. 0-480 Nm	WILLIAMS HTD-2-350F
2	SEE SEPARATE DWG.		KTC CMD484
1	98-23-10	0-350 FT.LB. 0-480 Nm	CDI 3504LDFNW
TAB NO.	▲ SCALE	RANGE	CUSTOMER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
:1/32 :.01 :1/2°
:005 :.005

PARTS LIST		
CONSOLIDATED DEVICES, INC. City of Industry, California EXPLODED ILLUSTRATION DIAL WRENCH 3/4 DR. (MEMORY) 0-350 FT.LB. 0-480 Nm		
DRAWN Z.J.S. APPROVED <i>Jay</i>	SCALE NONE DATE 08-20-91	DRAWING NO. 98-161-TAB

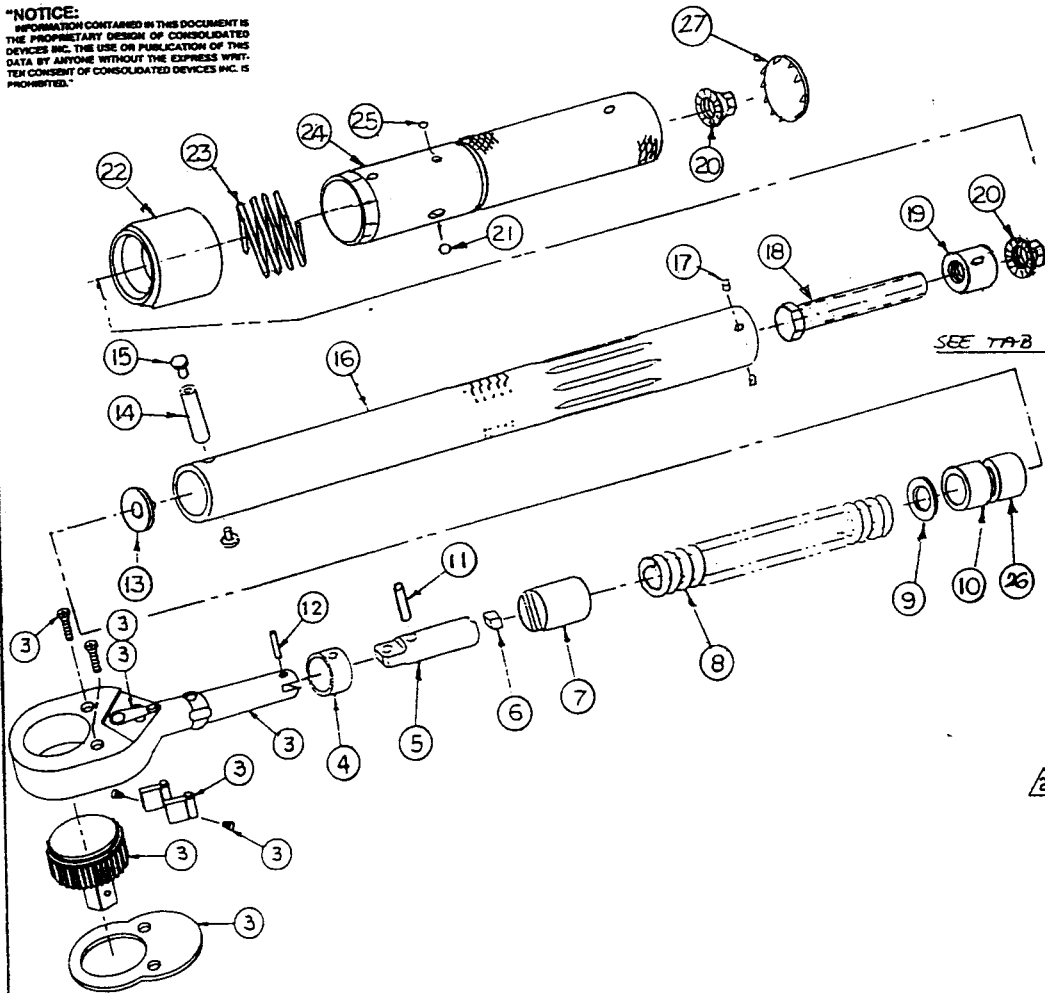
NOTES:

NOTE: UNCONTROLLED COPY

3504LDFNW

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SEE TAB

⚠ PURCHASED AS ASS'Y. P/N 96-500-8
 1. FOR WRENCHES TO BE RECALIBRATED
 SEE 46-253-TAB.
 NOTE

-1	47-446-18	CDI	3603 NMRMH
TAB	ITEM #22	CUSTOMER	MODEL NO.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
B.M.F	A	ITEM 18 47-342-3 WAS 47-342-1	10-11-96	Joy

27	10-103-3	BUTTON PLUG	1
26	95-28-2	SPACER	1
25	10-106-1	BALL (3/32)	1
24	47-348-11	HANDLE ASS'Y. (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	LOAD SCREW	1
17	47-240	PIN, TUBE INSERT	2
16	96-208-1	TUBE, (ROLL STAMP) (250' LB)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	3
9	10-104-1	WASHER, FLAT	8
8	95-93	SPRING, TORQUE	1
7	45-261	CAM	1
6	45-258-1	PAWL	1
5	61-62	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	96-500-8	RATCHET BODY ASS'Y.	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = .1/32 XX = .01 = 1/4
 .XXX = .005

MATERIAL

FINISH

CONOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 RATCHET DR.
 SER. 96 360Nm & 258 FT. LB.

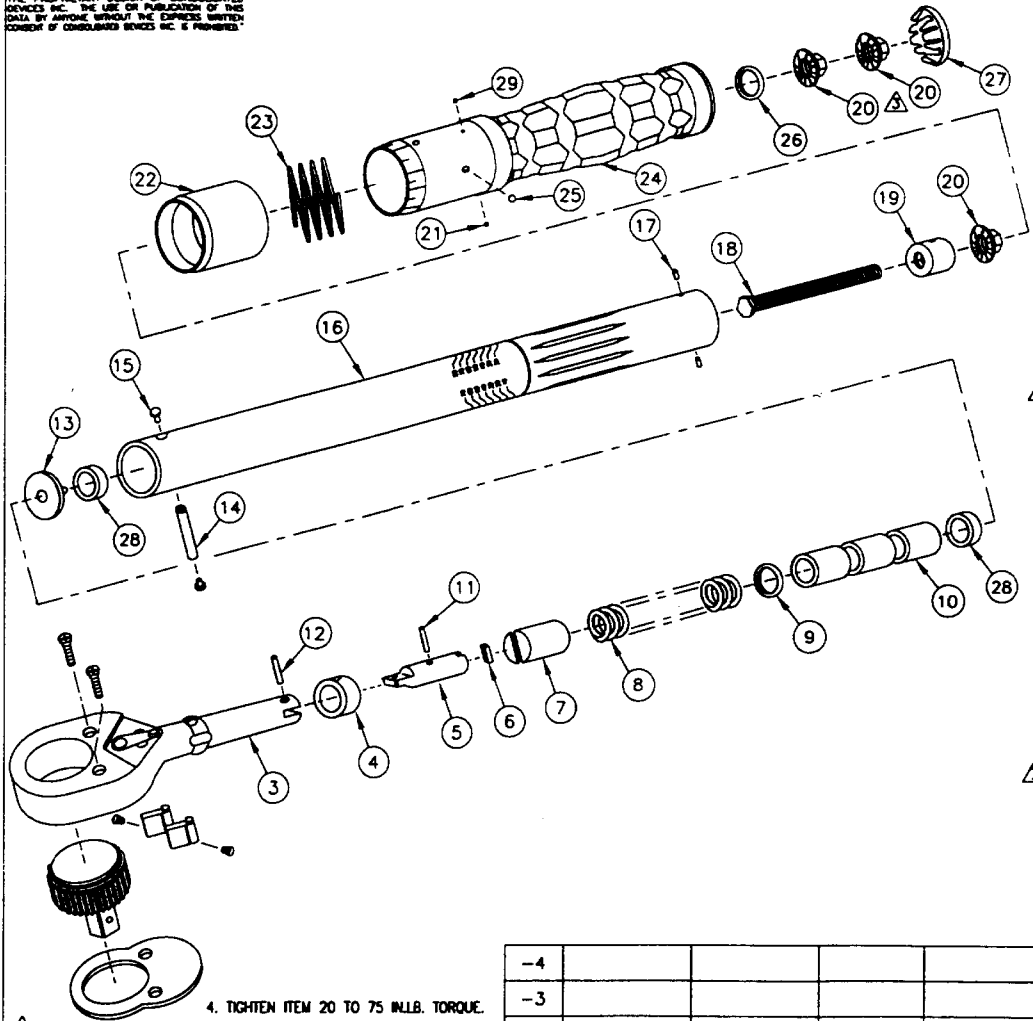
DRAWN	A.M.V.	SCALE	DRAWING NO.
APPROVED	Joy	DATE	10-09-95

96-632-TAB

NOTE: UNCONTROLLED COPY

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 CONSENT OF CONSOLIDATED DEVICES INC. IS PROHIBITED.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	D	ITEM 20 WAS REQ'D. 2, ADD NOTES J & 4	2/4-8	Jay



4. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.
- ⚠ ITEM 20 ASSEMBLY AS SHOWN.
- ⚠ PURCHASED AS ASSEMBLY 96-500-B.
1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
- NOTES:

-4				
-3				
-2	96-208-1	47-680-18	OLY	360QLN
-1	96-208-1	47-276-18	EUR/ACESA	Nº 3700.016
TAB NO.	⚠ ITEM NO. 16	⚠ ITEM NO. 22	CUSTOMER	MODEL NO.

29	10-106-2	BALL (.1094 DIA.)	1
28	95-28-4	SPACER (.35 LONG)	2
27	10-103-3	BUTTON PLUG	1
26	10-304	WASHER	1
25	10-106-5	BALL (5/32)	1
24	47-344-17	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22	⚠	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	3
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	⚠	TUBE (ROLL STAMP)	1
15	45-92	RVLET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER (1.38 LONG)	3
9	10-104-1	WASHER, FLAT	6
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-62	SECONDARY ARM	1
4	61-60	FULCRUM	1
⚠ 3	96-500-B	RATCHET BODY ASSEMBLY	1
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGELS ±1/32 .005 ±.01 ±1/2° NONE .0025 .005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 1/2 DR. RATCHET 360 Nm & 258 FT.LB. - PLASTIC HANDLE			
DRAWN	A.M.V.	SCALE NONE	DRAWING NO.
APPROVED	Jay	DATE 07-29-96	96-732-TAB

NOTE: UNCONTROLLED COPY

REF. CDI 3603NMRPH

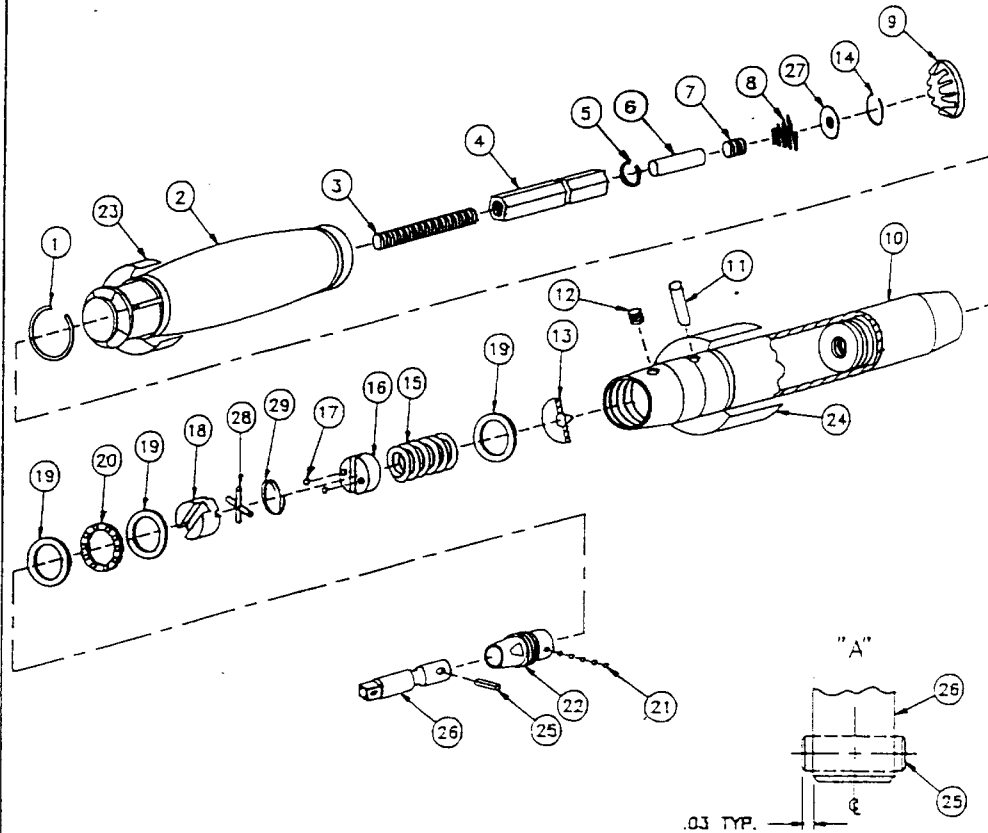
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGELS
1/16 0.005 0.01 0.015
0.005 0.005 0.005

BY	LTR	DESCRIPTION	APPROVED
ΔΔ	M	ADD ITEMS 28 AND 29, REDRAWN	6 Jan

UNCONTROLLED COPY
For Reference Only

DATE: _____
Not valid after _____ Days

JUL 22 1997
ENGINEERING



6. AFTER ASSEMBLY ITEM 25 TO BE SIMETRICALLY LOCATED TO ITEM 26, SEE DETAIL "A".
- ▲ USE PART NO. 275-13-1 FOR 50 CMKP AND 275-13-2 FOR ALL OTHERS.
 - ▲ USE PART NO. 275-104-1 FOR 36 IN.LB. & 40 dNm, 275-104-2 FOR 100 IN.OZ., 275-104-3 FOR 50 CMKP AND 275-104-4 FOR 10 dNm & 10 CMKP.
 - ▲ ITEM NUMBERS 3 THRU 7 MAY BE FURNISHED AS ONE COMPLETE ASSEMBLY (PART NO. 275-47-TAB).
 - ▲ USE PART NO. 275-66 (ITEM NO. 15) FOR 35 IN.LB. & 50 CMKG. USE PART NO. 275-41 FOR 100 IN.OZ. & 275-103 FOR 10 dNm & 10 CMKG.
 - ▲ SEE 275 SERIES PARTS LIST TO DETERMINE THE PART NO. FOR A PARTICULAR TUBE LABEL (ITEM NO. 24) OR HANDLE LABEL (ITEM NO. 23).

NOTES:

29	275-300	SPRING	1
28	275-110	PIN NEEDLE ROLLER	1
27	275-226	WASHER, SPRING RETAINER	1
26	275-64	SHAFT, DRIVE ASSEMBLY	1
25	10-107-35	SPRING PIN	1
24	▲	LABEL, TUBE	1
23	▲	LABEL, HANDLE	1
22	275-22	BUSHING	1
21	10-106-2	BALL SPHERICAL	5
20	275-14	RETAINER THRUST	1
19	275-33	WASHER THRUST	3
18	275-51	CAM	1
17	10-106-6	BALL, SPHERICAL	2
16	275-65	SECONDARY CAM	1
15	▲	SPRING, TORQUE	1
14	45-137	CLIP, HEX RETAINING	1
13	30-8	WASHER, THRUST	1
12	10-101-26	SOCKET SETSCREW	1
11	275-100	PIN, SECONDARY CAM	1
10	▲	TUBE ASSEMBLY	1
9	10-103-3	BUTTON PLUG	1
8	275-222	SPRING, HEX RETAINER	1
7	10-101-5	SOCKET SETSCREW	▲ 1
6	45-6-3	PIN, LOCK, HEX	▲ 1
5	45-2	CLIP, SPRING, HEX BAR	▲ 1
4	▲	BAR, HEX, INTERNAL ADJUSTING	▲ 1
3	10-101-7	SOCKET SETSCREW	▲ 1
2	275-190	HANDLE (PLASTIC)	1
1	275-85	CLIP, HANDLE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGELS
1/16 0.005 0.01 0.015
0.005 0.005 0.005

MATERIAL

FINISH

CONSOIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
TORQUE SCREWDRIVER, MICRO.ADJ.
1/4" SQUARE DRIVE
100 IN.OZ., 35 IN.LB., 10 & 50 CMKG 36 IN.LB.

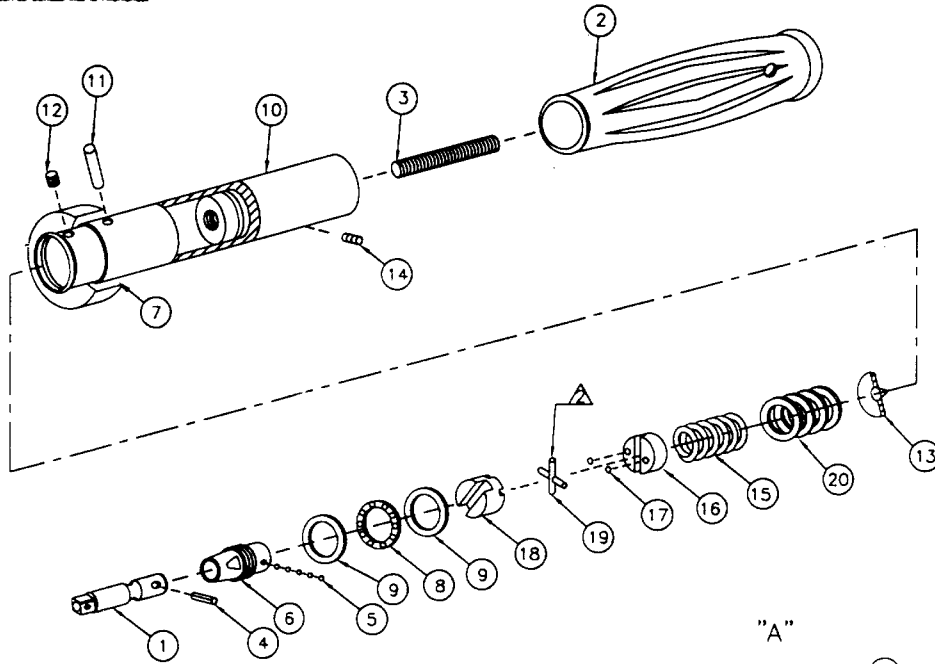
DATE: ΔΔ SCALE: NONE DRAWING NO. 275-67
APPROVED: DATE: 12-15-76

NOTE: UNCONTROLLED COPY

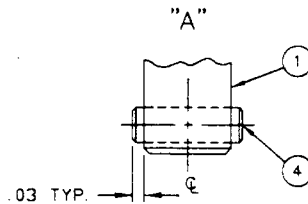
361SM

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BY	LTR	DESCRIPTION	DATE	APPROVED
JG	B	ADDED ITEM 20. ITEM 9 WAS REQ'D 3.	10-15-98	Jay



-6					
-5	275-58-3	275-66	36 IN.LB.	361SP	CDI
-4	275-58-1	275-66	35 IN.LB.	351SP	CDI
-3	275-58-2	275-41	100 IN.OZ.	1001SPO	CDI
-2	275-58-4	275-41	100 IN.OZ.	1001SPO-GSA J9	GSA
-1	275-158-1	275-66	36 IN.LB.	VB 361SP	BELKNAP
TAB NO.	ITEM NO. 7	ITEM NO. 15	RANGE	MODEL NO.	CUSTOMER



22			
21			
20	10-104-1	WASHER, FLAT	4
19	275-110	PIN, NEEDLE ROLLER	2
18	275-51	CAM	1
17	10-106-6	BALL, SPHERICAL	2
16	275-65	CAM, SECONDARY	1
15	△	SPRING, TORQUE	1
14	10-101-34	SOCKET SETSCREW	1
13	30-8	WASHER, THRUST	1
12	10-101-26	SOCKET SETSCREW	1
11	275-100	PIN, SECONDARY CAM	1
10	275-40	TUBE ASSEMBLY	1
9	275-33	WASHER, THRUST	2
8	275-14	RETAINER, THRUST	1
7	△	LABEL, TUBE	1
6	275-22	BUSHING, SHAFT	1
5	10-106-2	BALL SPHERICAL	5
4	10-107-35	SPRING PIN	1
3	10-101-8	SOCKET SETSCREW	1
2	275-53-2	HANDLE, VINYL	1
1	275-64	SHAFT, DRIVE ASSEMBLY	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGELS
±1/32 .001 ±.01 ±1/2°
.0002 .005

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
TORQUE SCREWDRIVER, PRESET
1/4" SQUARE DRIVE

MATERIAL

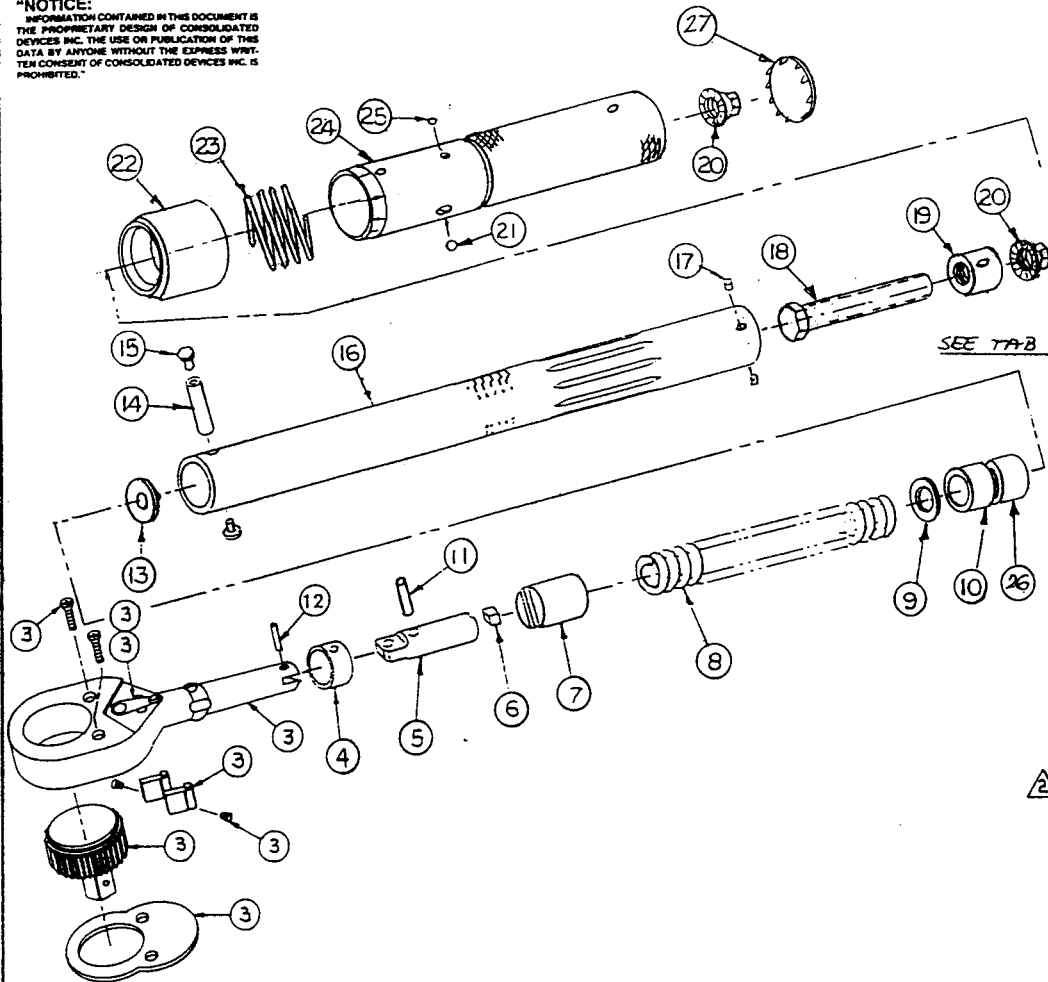
FINISH

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.	275-68-TAB
APPROVED	Jay	DATE	05-31-96		

NOTE: UNCONTROLLED COPY

361SP, 351SP, 1001SPO

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SEE TAB

△ PURCHASED AS ASS'Y. P/N 96-500-8
 1. FOR WRENCHES TO BE RECALIBRATED
 SEE 46-253-TAB.
 NOTE

-3	47-446-18	CDI	363KMRMH
-2	47-273-25	WILLIAMS TOOL	STW-3RCM
-1	47-280-18	OLY	3600QLM
TAB	ITEM # 22	CUSTOMER	MODEL NO.

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ADD △ OMIT ITEMS 112, △ WAS 45-93-1	04-06-95	<i>[Signature]</i>
A.M.V.	B	ITEM 5 WAS 61-61, ITEM 8 WAS REQ'D. A.M., ITEM 10 WAS REQ'D. B.	7-11-95	<i>[Signature]</i>
A.M.V.	C	ADD -2	9-14-95	<i>[Signature]</i>
A.M.V.	D	ADD -3	10-04-95	<i>[Signature]</i>

27	10-103-3	BUTTON PLUG	1
26	95-20-2	SPACER	1
25	10-106-1	BALL (3/32)	1
24	47-448-1	HANDLE ASS'Y. (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-295-1	HEX FLANGE NUT	2
19	97-241	INSERT, TUBE	1
18	47-342-1	LOAD SCREW	1
17	47-240	PIN, TUBE INSERT	2
16	96-206-1	TUBE, (ROLL STAMP) (250' LB)	1
15	45-98	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	45-250	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER	3
9	10-104-1	WASHER, FLAT	8
8	95-93	SPRING, TORQUE	1
7	45-251	CRIM	1
6	45-258-1	PAWL	1
5	61-62	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	96-500-8	RATCHET BODY ASS'Y.	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

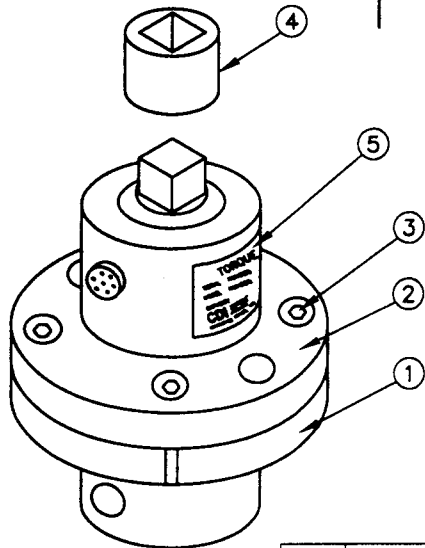
UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = .032 XX = .01 = 1/2
 .XXX = .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO-ADJ. WRENCH 1/2 RATCHET DR.
 SER. 96 36 Kg M

DRAWN A.M.V.	SCALE	DRAWING NO.
APPROVED <i>[Signature]</i>	DATE 03-10-95	96-532-TAB

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BY	LTR	DESCRIPTION	DATE	APPROVED
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7				
6				
△ 5	342-24-66	LABEL, TRANSDUCER		1
4	342-41-2	SOCKET ADAPTER		1
3	10-168-19	SOCKET HEAD CAP SCREW 1/4-20, 1/2" LONG		4
2	342-7-0	TRANSDUCER 400 IN.LB.		1
1	2000-225-5	SMALL TRANSDUCER ADAPTER		1

ITEM	PART NO.	DESCRIPTION	REQ'D
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UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGELS
 ±1/32 .XX ±.01 ±1/2°
 .XXX ±.005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

TORQUE TRANSDUCER KIT
 (USED ON LOADERS)
 400 IN.LB. CDI

4002-I-TTPL	SCALE NONE	DRAWING NO.
DRAWN A.M.V.	DATE 3-2-98	342-7-02L
APPROVED [Signature]		

- △ 2. LABEL MADE IN CDI.
 1. CLEAN SURFACE ITEM 2 WITH FREON BEFORE APPLYING LABEL (ITEM 5)

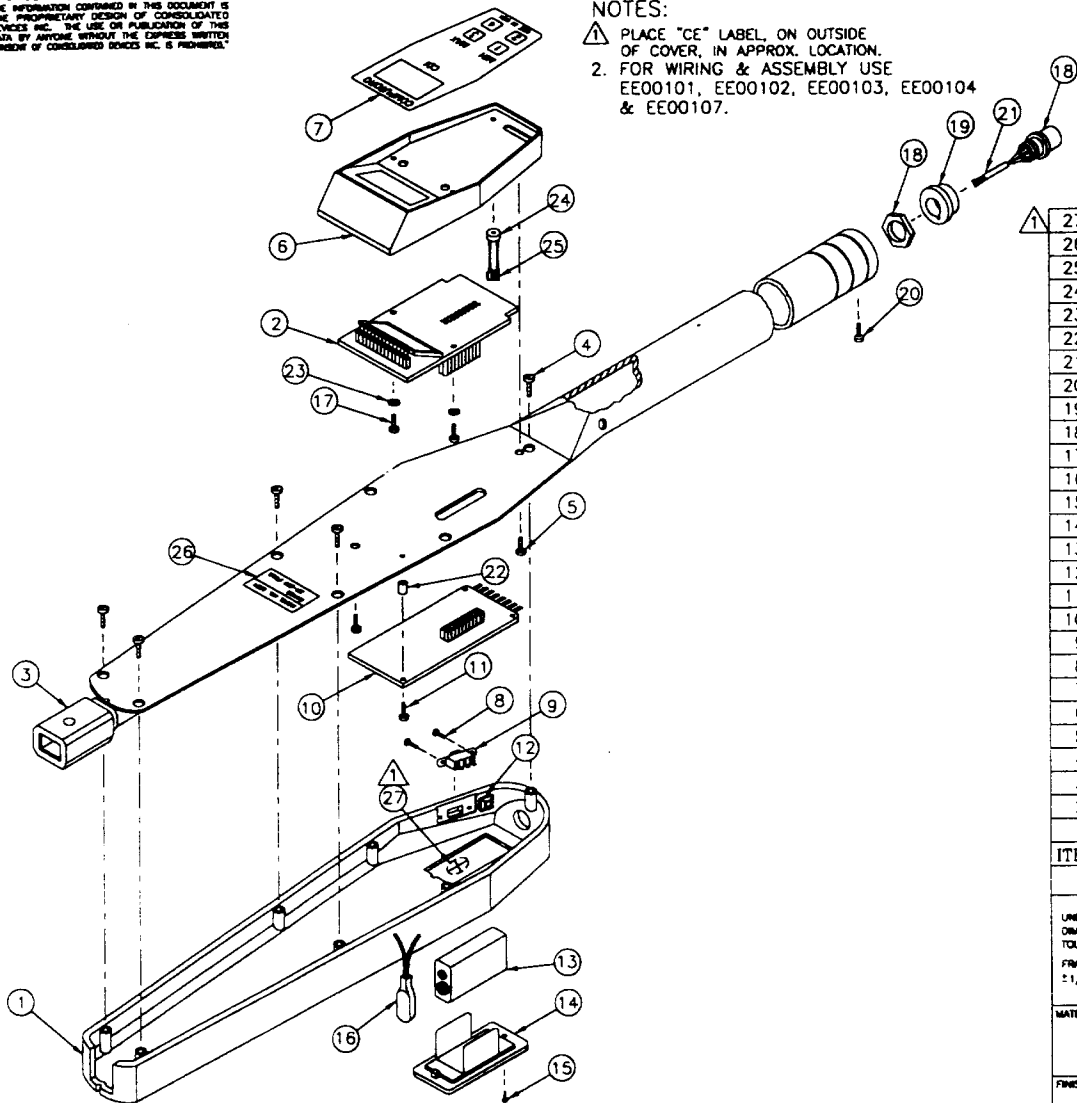
NOTES:

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NOTES:

1. PLACE "CE" LABEL, ON OUTSIDE OF COVER, IN APPROX. LOCATION.
2. FOR WIRING & ASSEMBLY USE EE00101, EE00102, EE00103, EE00104 & EE00107.



BY	LTR	DESCRIPTION	DATE	APPROVED
JG	B	ADDED NOTE 2.	11-30-98	Jay

ITEM	PART NO.	DESCRIPTION	REQ'D
27	950-99	CE LABEL	
26	1300-50-3	MODEL NO. LABEL	1
25	344-16-1	PCB CONNECTOR	1
24	81-28	BUZZER	1
23	10-205-3	WASHER, NYLON	2
22	1300-4-2	SPACER 5/16 LONG	1
21	82-24-2	CABLE	1
20	10-101-26	SOCKET SETSCREW 8-32 UNC X 1/8	1
19	1300-82-33	ADAPTER	1
18	1100-77	RECEPTACLE WITH NUT & WASHER	1
17	10-126-18	PAN HEAD MACHINE SCREW 4-40 X 3/16	2
16	81-37	BATTERY PLUG	1
15	10-227-1	FLAT HEAD TAPPING SCREW	1
14	1300-82-19	COVER & CLIP ASSEMBLY	1
13	81-6	BATTERY 9V	1
12	44-9	MOUNTING DEVICE	1
11	10-126-7	PAN HEAD MACHINE SCREW 4-40 X 1/2	1
10	1300-100	PC BOARD-ANALOG	1
9	1100-20	SWITCH	1
8	10-109-17	FLAT HEAD MACHINE SCREW	2
7	1300-133-6	KEY PAD	1
6	1300-1	HOUSING	1
5	10-225-9	BUTTON HEAD SOCKET CAP SCREW 8-32 NC X 5/16	2
4	10-235-4	SCREW, TAPPING 10 X 3/4	5
3	1300-82-253	BEAM, PLATE, WIRING ASSEMBLY (STRAIN GAGE)	1
2	1300-110	PC BOARD-DIGITAL	1
1	1300-82-232	CASE	1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
1/32 .01 .1/2°
XXXX .005

CONSOLIDATED DEVICES, INC.
City of Industry, California

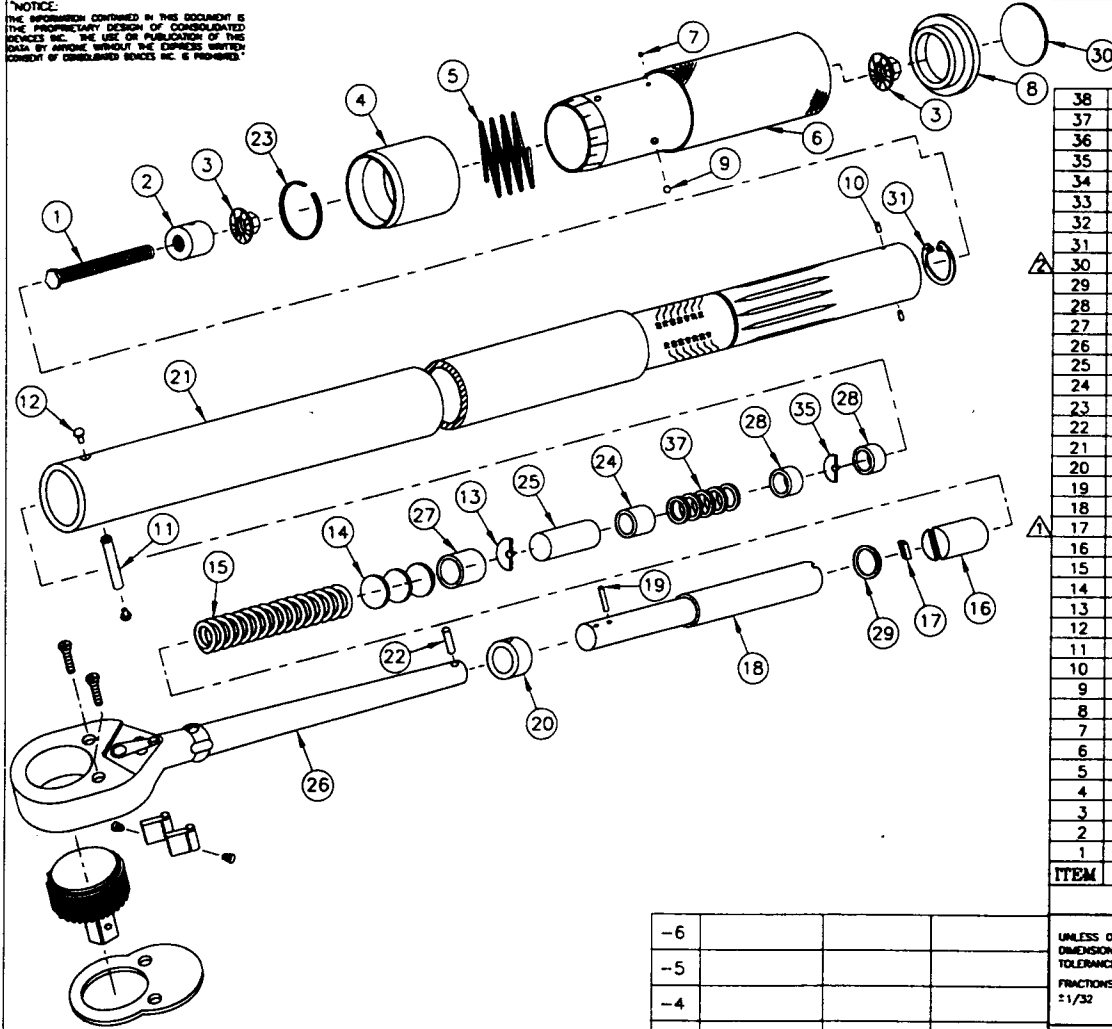
EXPLODED ILLUSTRATION
COMPUTORQ
RANGE 400 Nm

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	5-20-98	1300-82-9

NOTE: UNCONTROLLED COPY

4004 CF - I

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	E	ADD TAB NO. -3	2-24-99	Jay

38				
37	10-104-1	WASHER, FLAT		5
36				
35	30-8	WASHER, THRUST		1
34				
33				
32				
31	10-238-2	RETAINING RING		1
30	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI		1
29	10-241-4	O-RING		1
28	95-28-4	SPACER (.35 LONG)		2
27	216-24-1	SPACER (.80 LONG)		1
26	216-500-1	RATCHET BODY		1
25	216-41	SPACER (3.60 LONG)		1
24	95-28-1	SPACER (1.38 LONG)		1
23	47-238-1	SPRING RING		1
22	10-102-4	PIN, ROLLER		1
21	216-13-10	TUBE (ROLL STAMP)		1
20	216-60	FULCRUM		1
19	10-102-23	PIN, FULCRUM		1
18	216-61-1	SECONDARY ARM		1
17	45-253-3	PAWL		1
16	215-32	CAM		1
15	216-86	SPRING, TORQUE		1
14	215-82-2	WASHER, FLAT		3
13	85-10-2	WASHER, THRUST		1
12	45-92	RIVET, PIVOT PIN		2
11	215-47-1	PIN, PIVOT		1
10	47-240	PIN		2
9	10-106-8	BALL (1/8)		1
8	96-103-3	END PLUG SNAP-ON, CDI		1
7	10-106-1	BALL (3/32)		1
6	47-248-2	HANDLE ASSEMBLY (ROLL STAMP)		1
5	47-249	SPRING, LOCK RING		1
4	▲	LOCK RING		1
3	47-245-1	HEX, FLANGE NUT		2
2	47-241	INSERT TUBE		1
1	47-342-5	ADJUSTING SCREW (2.25 LONG)		1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

-6			
-5			
-4			
-3	47-280-29	OLY	500QLN
-2	47-946-29	MOUNTZ	MTW 400F
-1	47-246-29	CDI	4004MFRMH
TAB NO.	ITEM NO.	CUSTOMER	MODEL NO.
▲	4		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .001 ±.01 ±1/2°
.0002 .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

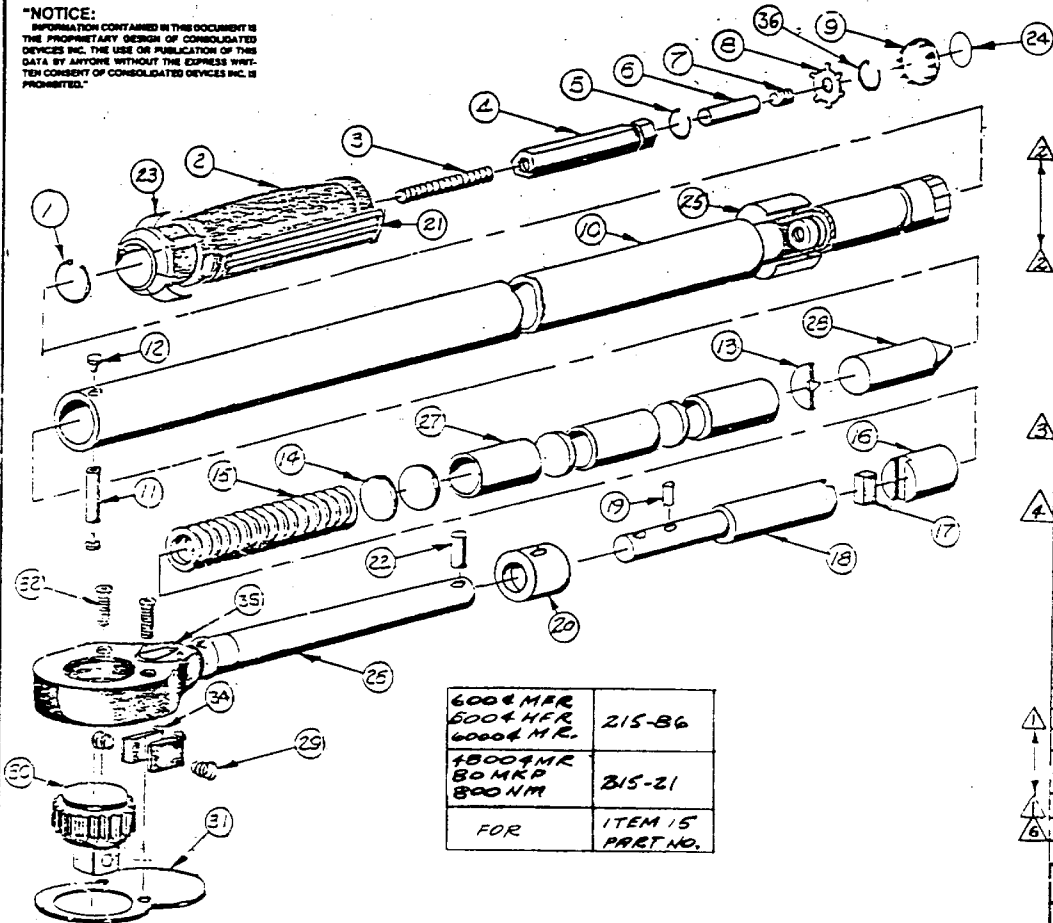
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/4 DR. RATCHET
400 FT.LB.

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	09-05-96	216-236-TAB

- ▲ USE ITEM 30 FOR CDI ONLY.
▲ SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.
- NOTES:

NOTE: UNCONTROLLED COPY

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6004 M.R.	215-86
5004 M.R.	
60004 M.R.	
18004 M.R.	215-21
80 M.R.P.	
800 NM	
FOR	ITEM 15
	PART NO.

- ▲ ITEM 2, FOR RED HANDLE, USE 46-1-2.
- ▲ SEE 216 SERIES PARTS LIST TO DETERMINE PART NO. FOR A PARTICULAR HANDLE LABEL (ITEM 23) AND TUBE LABEL (ITEM 20)
- ▲ SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.
- ▲ HANDLE GRIP TO BE FURNISHED IF REQUESTED.
- ▲ ITEMS 29 THRU 35 MAY BE PURCHASED AS A RATCHET REPAIR KIT (215-103)
- ▲ ITEMS 3 THRU 7 MAY BE PURCHASED AS ONE COMPLETE ASSY. (45-94-1)

NOTES:

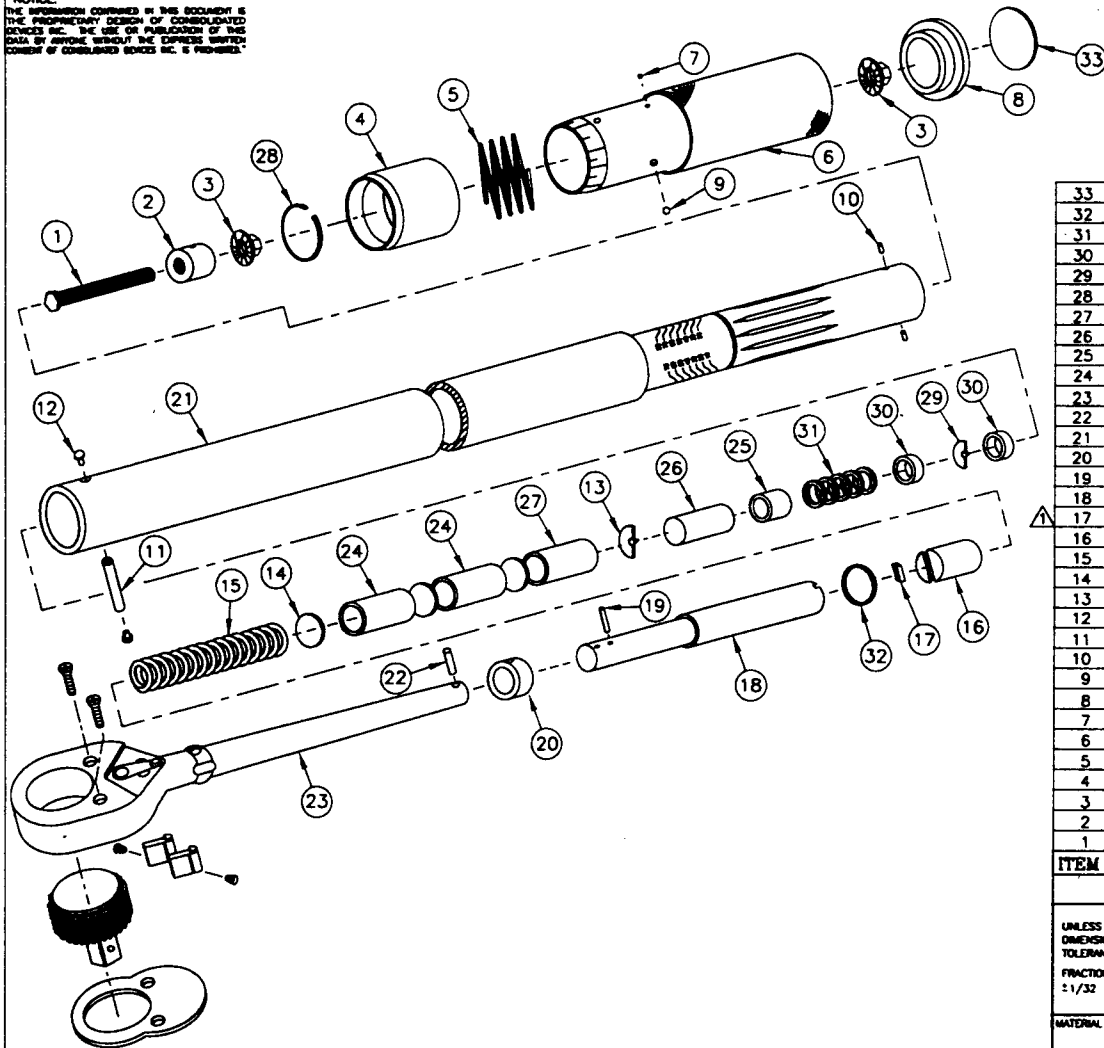
REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
JOG	D	ADDED ITEM 24	2-18-98	[Signature]

36	45-137	CLIP, HEX RETAINER.		
35	215-228 & 4	REVERSING LEVER & CAM.		
34	215-225	PAWL.		
32	215-229	SCREW.		
31	215-222	PLATE.		2
30	215-223	RATCHET.		
29	215-227	SPRING, CONICAL.		
28	216-40	SPACER, END TUBE.		2
27	215-20	SPACER.		
26	215-232	RATCHET BODY.		3
25	A	LABEL TUBE.		
24	10-203-2	END PLUG, C.D.I.		
23	A	LABEL, HANDLE.		
22	10-102-4	PIN, ROLLER.		
21	45-277	HANDLE GRIP.		
20	216-60	FULCRUM.		
19	10-102-23	PIN, FULCRUM.		
18	216-61-2	SECONDARY ARM.		
17	45-253-3	PAWL.		
16	215-32	CAM.		
15	SEE BLOCK	SPRING, TORQUE.		
14	215-82-2	WASHER, FLAT.		A/R
13	85-10-2	WASHER, THRUST.		
12	45-92	RIVET, PIVOT PIN.		2
11	215-47-1	PIN, PIVOT.		1
10	216-8	TUBE ASSY.		
9	10-103-3	BUTTON, PLUG, HANDLE.		
8	45-75	WASHER, HEX LOCK.		2
7	10-01-9	SOCKET, SETSCREW, HEX BAR.		
6	45-6-1	PIN, LOCK, HEX BAR.		
5	45-2	CLIP, SPRING, HEX BAR.		
4	45-48	BAR, HEX, INTERNAL ADJUSTING.		
3	10-101-1	SOCKET SETSCREW, HEX BAR.		
2	46-1-1	HANDLE, PLASTIC (BLACK.)		
1	45-74	CLIP, HANDLE.		

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES			
<small> 1/32 .031 1/16 .062 3/32 .094 1/8 .125 5/32 .156 3/16 .188 7/32 .219 1/2 .250 9/32 .281 5/16 .312 3/4 .375 7/8 .438 1 .475 1 1/8 .562 1 1/4 .625 1 1/2 .750 1 3/4 .875 2 .005 </small>			
CONSOLIDATED DEVICES, INC. City of Industry, California, *			
EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 3/4 DR. RATCHET			
SER. 216			
DRAWN	RJS	SCALE	DRAWING NO.
APPROVED	[Signature]	DATE	8-26-87
			216-132-1

6004 M.R. 80 M.R.P. 18004 M.R. 800 NM
 5004 M.R. 60004 M.R.

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	ITEM 8 WRS 10-103-3, ITEM 16 WRS 215-32, ADD ITEMS 32 & 33	9-25-88	Jay

33	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
32	10-241-4	O-RING	1
31	10-104-1	WASHER, FLAT	5
30	95-28-4	SPACER (.35 LONG)	2
29	30-8	WASHER, THRUST	1
28	47-238-1	SPRING RING	1
27	216-24	SPACER (1.60 LONG)	1
26	216-41	SPACER (3.60 LONG)	1
25	95-28-1	SPACER (1.38 LONG)	1
24	215-20	SPACER (3.09 LONG)	2
23	216-500-1	RATCHET BODY	1
22	10-102-4	PIN, ROLLER	1
21	216-13-9	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-1	SECONDARY ARM	1
17	45-253-3	PAWL	1
16	215-32-1	CAM	1
15	215-21	SPRING, TORQUE	1
14	215-82-2	WASHER, FLAT	5
13	85-10-2	WASHER, THRUST	1
12	45-92	RMET, PIVOT PIN	2
11	215-47-1	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	96-103-3	END PLUG SNAP-ON, CDI	1
7	10-106-1	BALL (3/32)	1
6	47-248-12	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-249	SPRING, LOCK RING	1
4	47-246-27	LOCK RING	1
3	47-245-1	HEX, FLANGE NUT	2
2	47-241	INSERT TUBE	1
1	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
ITEM	PART NO.	DESCRIPTION	REQ'D

SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.
 NOTES:

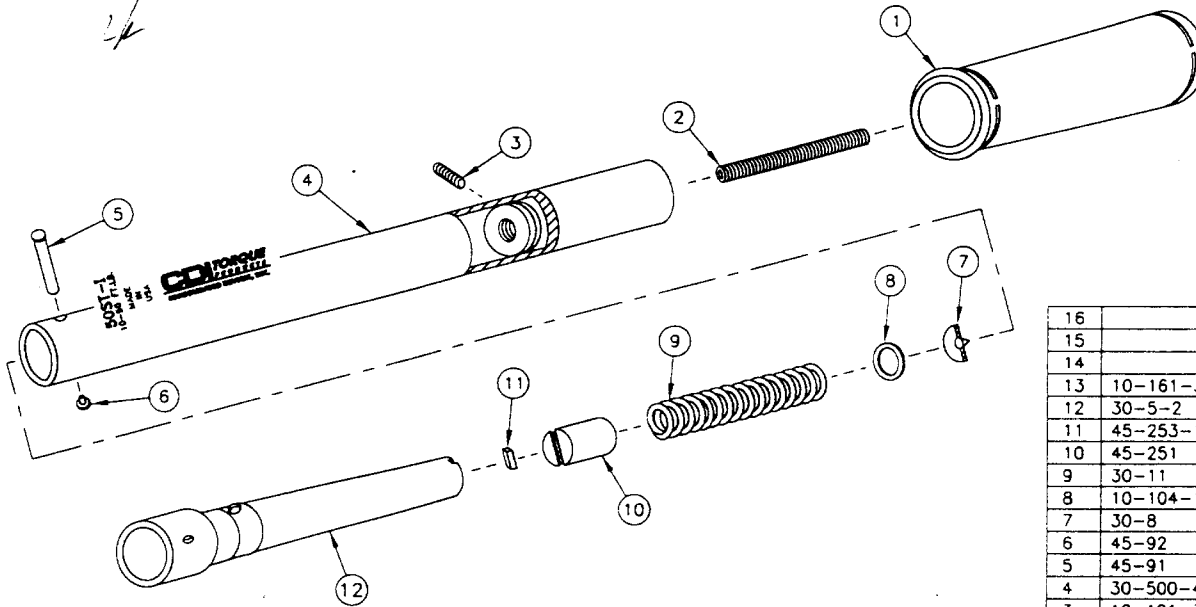
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGELS ±1/32 .005 ±.01 ±1/2° .0002 .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 3/4 DR. RATCHET 4800 IN.LB.	
FINISH		DRAWN A.M.V. SCALE NONE APPROVED Jay DATE 10-04-96	DRAWING NO. 216-432-3

NOTE: UNCONTROLLED COPY

48004 MRMH

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JUN 28 2000
 2/4



BY	LTR	DESCRIPTION	DATE	APPROVED
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16				
15				
14				
13	10-161-3	BOX, MASTER (NOT SHOWN)		1
12	30-5-2	ARM, CLICK		1
11	45-253-1	PAWL		1
10	45-251	CAM		1
9	30-11	SPRING, TORQUE		1
8	10-104-1	WASHER, FLAT		A/R
7	30-8	WASHER, THRUST		1
6	45-92	RIVET, PIVOT PIN		1
5	45-91	PIVOT PIN		1
4	30-500-46	TUBE ASSEMBLY, PRESET LASER MARK		1
3	10-101-34	SOCKET SETSCREW, LOCKING		1
2	10-101-8	SOCKET SETSCREW, PLUG		1
1	30-277-3	HAND GRIP		1
ITEM	PART NO.	DESCRIPTION	REQ'D	

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 1/32 .01 1/2°
 .005 .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

MATERIAL

EXPLODED ILLUSTRATION
 50ST-I 10-50 FT.LB. PRESET
 INTERCHANGEABLE HEAD CDI

FINISH

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	2/7	DATE	2-18-99	30-1317-5

NOTES:

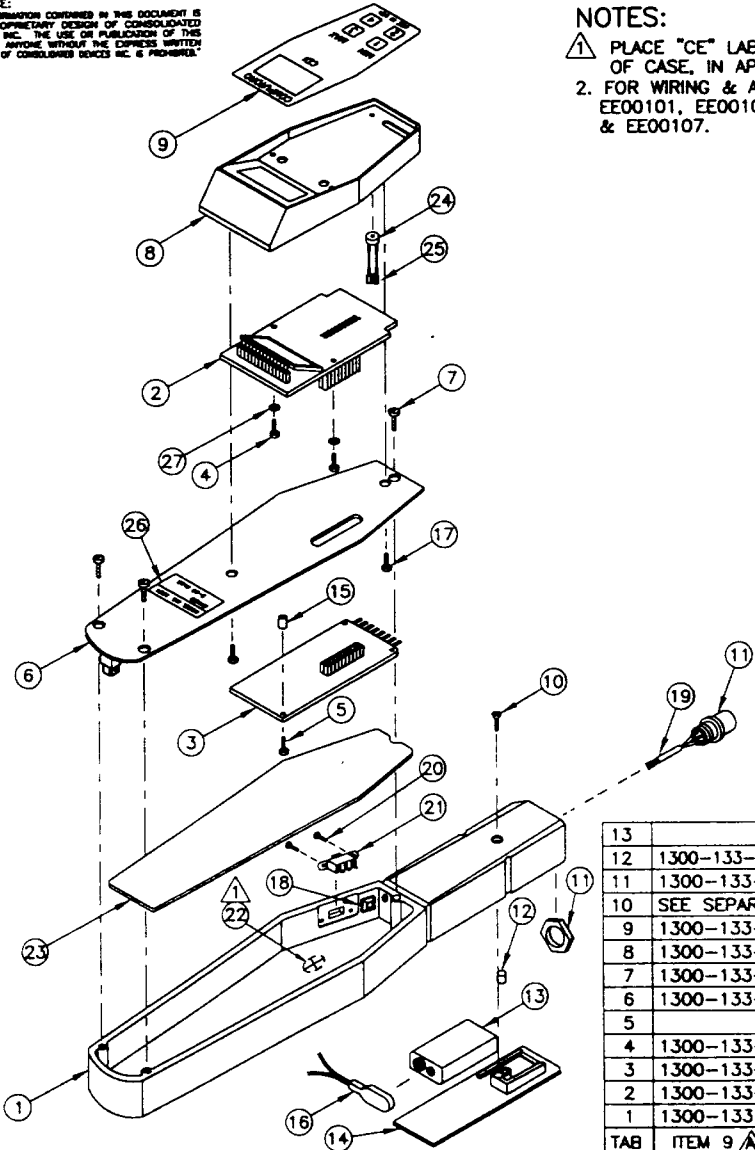
NOTE: UNCONTROLLED COPY

50ST-I CDI

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NOTES:

1. PLACE "CE" LABEL, ON OUTSIDE OF CASE, IN APPROX. LOCATION.
2. FOR WIRING & ASSEMBLY USE EE00101, EE00102, EE00103, EE00104 & EE00107.



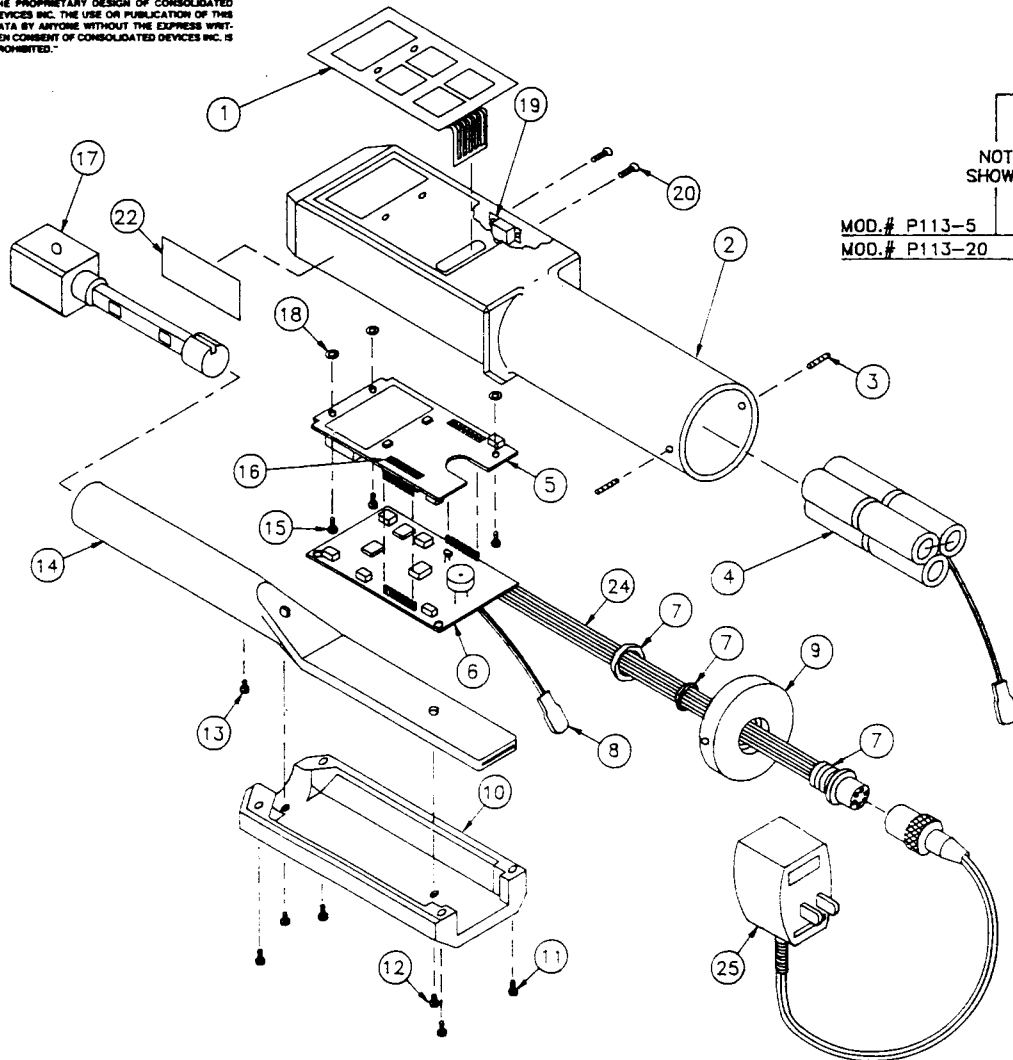
BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	M	△ WAS △, △ WAS △, ADD TAB 12	5-16-99	Jay

27	10-205-3	WASHER, NYLON	2
26	△	MODEL NO. LABEL	1
25	344-16-1	PCB CONNECTOR	1
24	81-28	BUZZER	1
23	51-50	INSULATION	1
△ 22	950-99	CE LABEL	1
21	1100-20	SWITCH	1
20	10-109-17	FLAT HEAD MACHINE SCREW	2
19	82-24-2	CABLE	1
18	44-9	MOUNTING DEVICE	1
17	10-225-9	BUTTON HEAD SOCKET CAP SCREW 8-32 NC X 5/16	2
16	81-37	BATTERY PLUG	1
15	1300-4-2	SPACER, 5/16 LONG	1
14	1300-51-26	COVER, BATTERY	1
13	81-6	BATTERY 9V	1
12	42-6	PLUG	1
11	1100-77	RECEPTACLE WITH NUT & WASHER	1
10	10-109-24	FLAT HEAD MACHINE SCREW 10-32 X 3/4	1
9	△	KEY PAD	1
8	1300-1	HOUSING	1
7	10-222-1	SCREW, TAPPING 10-24 X 1/2	3
6	1300-51-53	BEAM, PLATE, WIRING ASSEMBLY	1
5	10-126-7	PAN HEAD MACHINE SCREW 4-40 X 1/2	1
4	10-126-18	PAN HEAD MACHINE SCREW 4-40 X 3/16	2
3	1300-101	PC BOARD-ANALOG ASSEMBLY	1
2	1300-111	PC BOARD-DIGITAL ASSEMBLY	1
1	1300-51-3	CASE	1

13			
12	1300-133-10	1300-73-1	TONE
11	1300-133-7	1300-71-1	MITUTOYO
10	SEE SEPARATE DWG.		STAHLWILLE
9	1300-133-9	1300-77-1	HAUSER
8	1300-133-8	1300-75-1	BELKNAP
7	1300-133-5	1300-70-1	WERA
6	1300-133-2	1300-60-1	WRIGHT TOOL
5			
4	1300-133-1	1300-40-1	MOUNTZ
3	1300-133-3	1300-30-1	ARMSTRONG
2	1300-133-4	1300-20-1	SNAP-ON
1	1300-133	1300-10-1	CDI
TAB	ITEM 9 △	ITEM 26 △	CUSTOMER

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			
FRACTIONS DECIMALS		ANGLES	
: 1/32 .001		: 1/2°	
MATERIAL			
FINISH			
CONSOLIDATED DEVICES, INC. City of Industry, California EXPLODED ILLUSTRATION COMPUTORQ II RANGE 50 IN.LB.			
DRAWN Z.J.S./A.M.V.		SCALE NONE	DRAWING NO.
APPROVED Jay		DATE 09-16-94	1300-52-TAB

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MOD.# P113-5
 MOD.# P113-20

NOT
 SHOWN

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ΔΔ	H	ITEM 1 WAS 1100-31, ADD ITEMS 26 THRU 31	2-22-94	Joy

31	10-182	BOX, CARDBOARD, PACKAGING	1
30	1100-125-1	BOTTOM FOAM INSERT, PACKAGING	1
29	1100-125-2	TOP FOAM INSERT, PACKAGING	1
28	1100-86	PLASTIC CASE, PACKAGING	1
27	1100-93-1	INSERT TOOL, PLAIN DRIVE 1/4 SQ.	1
26	1100-134	CABLE, PET "M" TO DIGIMATIC	1
25	1100-7	AC ADAPTER - POWER CORD ADAPTER	1
24	2000-100-36	RIBBON CABLE (10 IN.)	1
23			
22	1100-116	LABEL	1
21			
20	10-109-17	FLAT HEAD MAC. SCREW (2-56 X 3/16) SLOTTED	2
19	1100-20	SWITCH	1
18	10-205-3	WASHER (NYLON) 4-40	3
17	1100-100-3	SENSOR BEAM ASSEMBLY	1
16	1100-105-2	NYLON STRIP	2
15	10-225-18	BUTTON HEAD SOCKET CAP SCREW (4-40 X 1/4)	3
14	1100-14	TUBE	1
13	10-225-14	BUTTON HEAD SOCKET CAP SCREW (6-32 X 1/4)	1
12	10-128-21	HEX. SOCKET FLAT HEAD SCREW (6-32 X 3/8)	2
11	10-225-12	BUTTON HEAD SOCKET CAP SCREW (8-32 X 1/2)	4
10	1100-118-3	COVER (PRINTED)	1
9	1100-22	RETAINER, RECEPTACLE	1
8	81-37	BATTERY PLUG	1
7	1100-77	FEMALE RECEPTACLE, NUT & WASHER	1
6	1100-52-1	PC BOARD ASSEMBLY, ANALOG MITUTOYO	1
5	1100-24-1	PC BOARD ASSEMBLY, DIGITAL MITUTOYO	1
4	1100-5	BATTERY PACK	1
3	10-101-44	SOCKET SET SCREW (4-40 X 5/16 LONG)	2
2	1100-15-1	HOUSING	1
1	1100-27	DISPLAY BOARD (MITUTOYO) KEYPAD	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
------------	----------	-------------	------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± .12 XX ± .01 = 1/4°
 XXX ± .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

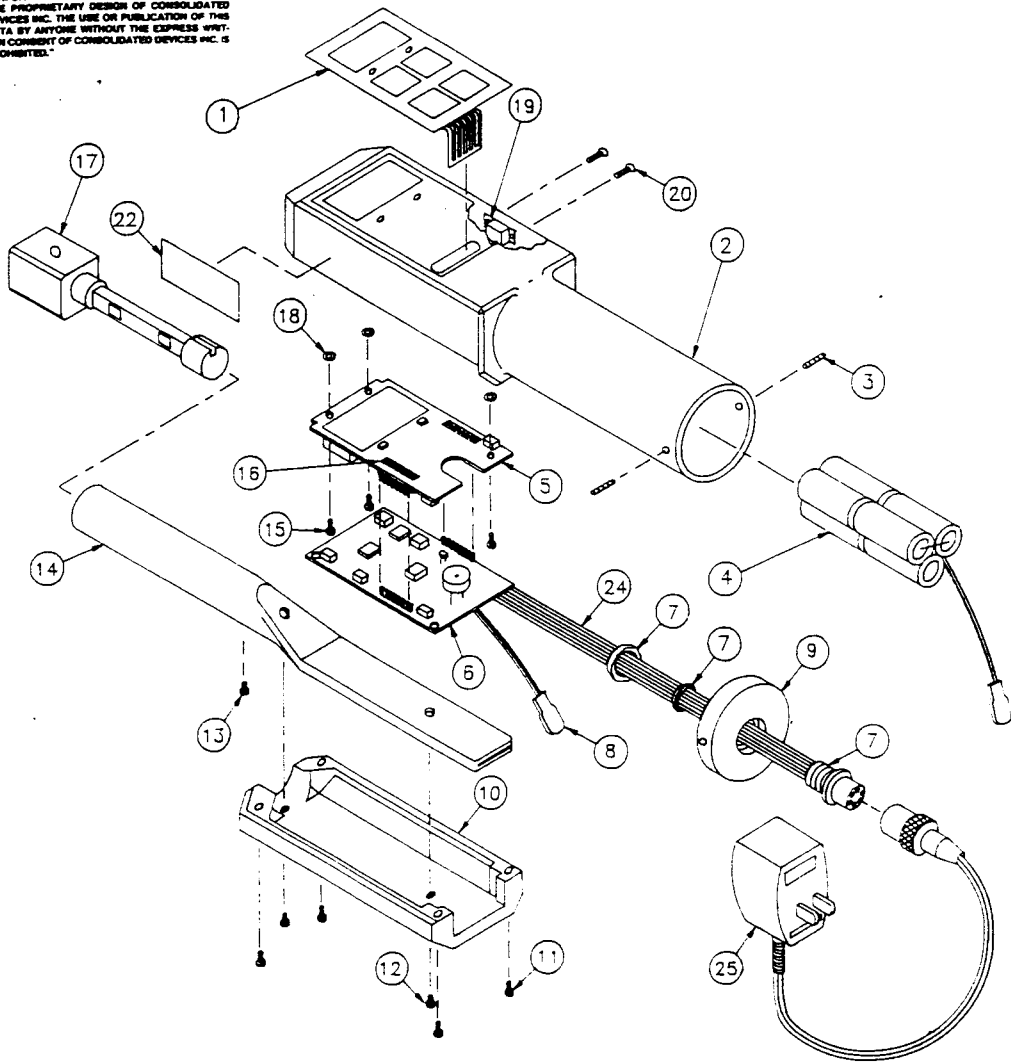
EXPLODED ILLUSTRATION
 50 IN.LB. P.E.T.
 CDI

SERIES 1100 M-SERIES

DRAWN ΔΔ	SCALE NONE	DRAWING NO. 1100-0-10
APPROVED D.D.	DATE 11-9-92	

NOTES:

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NOTES:

*AV BLUEPRINT SERVICE, INC. (818) 336-4409

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED

25	1100-7	AC ADAPTER	1
24	2000-100-36	RIBBON CABLE (10 IN.)	1
23			
22	1100-116	LABEL	1
21			
20	10-109-17	FLAT HEAD MAC. SCREW (2-56 X 3/16) SLOTTED	2
19	1100-20	SWITCH	1
18	10-205-3	WASHER (NYLON) 4-40	3
17	1100-100-3	SENSOR BEAM ASSEMBLY	1
16	1100-105-2	NYLON STRIP	2
15	10-225-18	BUTTON HEAD SOCKET CAP SCREW (4-40 X 1/4)	3
14	1100-14	TUBE	1
13	10-225-14	BUTTON HEAD SOCKET CAP SCREW (6-32 X 1/4)	1
12	10-128-21	HEX. SOCKET FLAT HEAD SCREW (6-32 X 3/8)	2
11	10-225-12	BUTTON HEAD SOCKET CAP SCREW (8-32 X 1/2)	4
10	1100-118-3	COVER (PRINTED)	1
9	1100-22	RETAINER, RECEPTACLE	1
8	81-37	BATTERY PLUG	1
7	1100-77	FEMALE RECEPTACLE, NUT & WASHER	1
6	1100-52-1	PC BOARD ASSEMBLY, ANALOG-MITUTOYO & R SER.	1
5	1100-24-3	PC BOARD ASSEMBLY, DIGITAL-R SER.	1
4	1100-5	BATTERY PACK	1
3	10-101-44	SOCKET SET SCREW (4-40 X 5/16 LONG)	2
2	1100-15-1	HOUSING	1
1	1100-27	DISPLAY BOARD (MITUTOYO) KEYPAD	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
------------	----------	-------------	------

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 XX ± .01 = 14°
 XXX ± .005

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
 50 IN.LB. P.E.T.

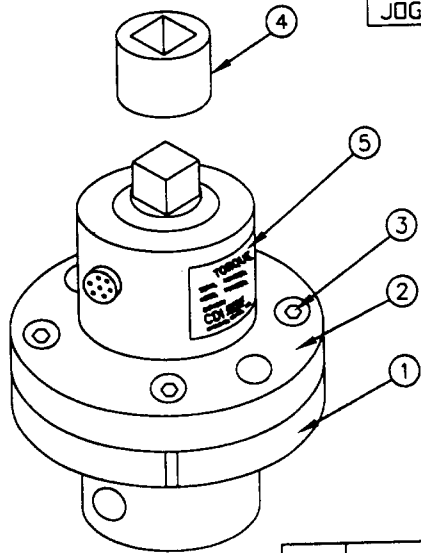
SER-R

SERIES 1100

DRAWN	SCALE	NONE	DRAWING NO.
229			1100-0-18
APPROVED	DATE	1-13-74	
JMY			

501-I-PET-R

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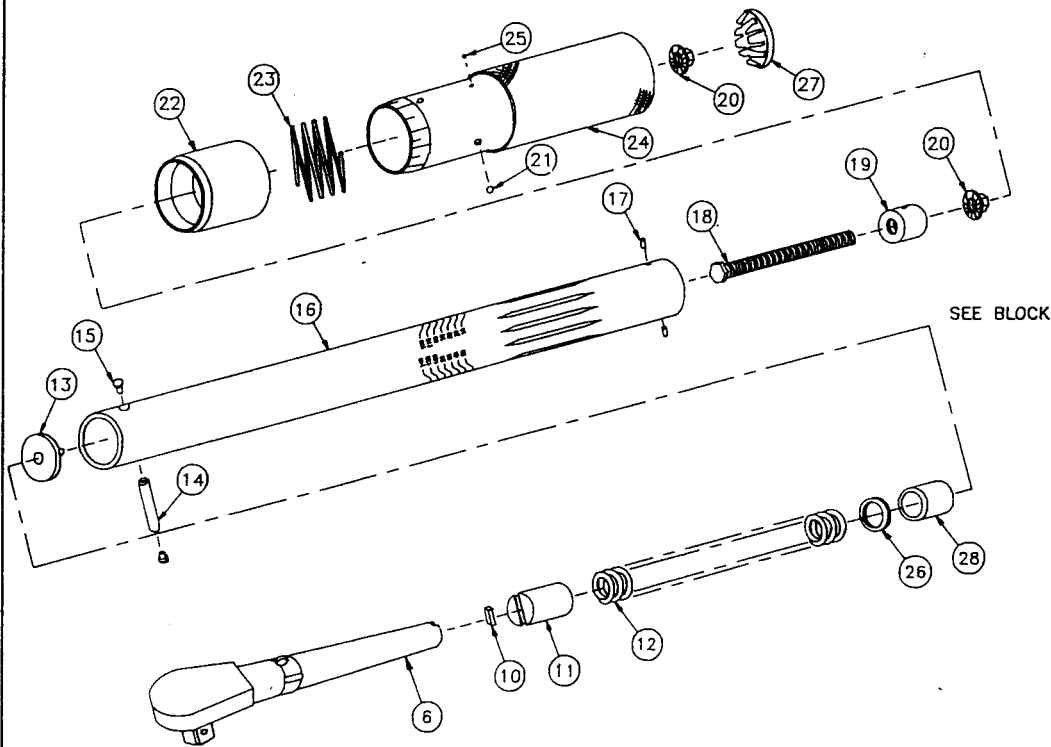
BY	LTR	DESCRIPTION	DATE	APPROVED
JOG	A	342-4-01 WAS 342-4-0	8-18-98	JM

7			
6			
5	342-24-63	LABEL, TRANSDUCER	1
4	342-40	SOCKET ADAPTER	1
3	10-168-19	SOCKET HEAD CAP SCREW 1/4-20, 1/2" LONG	4
2	342-4-01	TRANSDUCER 50 IN.LB.	1
1	2000-225-5	SMALL TRANSDUCER ADAPTER	1
ITEM	PART NO.	DESCRIPTION	REQ'D
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONSOLIDATED DEVICES, INC. City of Industry, California TORQUE TRANSDUCER KIT (USED ON LOADERS) 50 IN.LB. CDI	
FRACTIONS	DECIMALS		
±1/32	.XX ±.01	±1/2°	
	.XXX ±.005		
MATERIAL		501-I-TTPL	
FINISH		DRAWN A.M.V.	SCALE NONE
		APPROVED JM	DATE 2-18-98
		DRAWING NO.	342-6-02L

- △ 2. LABEL MADE IN CDI.
 1. CLEAN SURFACE ITEM 2 WITH FREON BEFORE APPLYING LABEL (ITEM 5)

NOTES:

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BY	LTR	DESCRIPTION	DATE	APPROVED
28	61-70	SPACER		1
27	10-103-1	BUTTON PLUG		1
26	10-104-2	WASHER, FLAT		AR
25	10-106-1	BALL 3/32		1
24	81-348-1	HANDLE ASSEMBLY		1
23	61-249	SPRING, LOCK RING		1
22	▲	LOCK RING		1
21	10-106-8	BALL 1/8		1
20	47-245-2	HEX, FLANGE NUT		2
19	61-241	INSERT, TUBE		1
18	61-142-1	ADJUSTING SCREW		1
17	10-106-5	BALL		2
16	61-254-1	TUBE, (ROLL STAMP)		1
15	61-263	RIVET, PIVOT PIN		2
14	61-262	PIN, PIVOT		1
13	50-1	WASHER, THRUST		1
12	25-13	SPRING, TORQUE		2
11	50-16	CAM		1
10	50-18	PAWL		2
9				
8				
7				
6	61-100-4	ARM & DRIVE WELDMENT		1
5				
4				
3				
2				
1				

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			

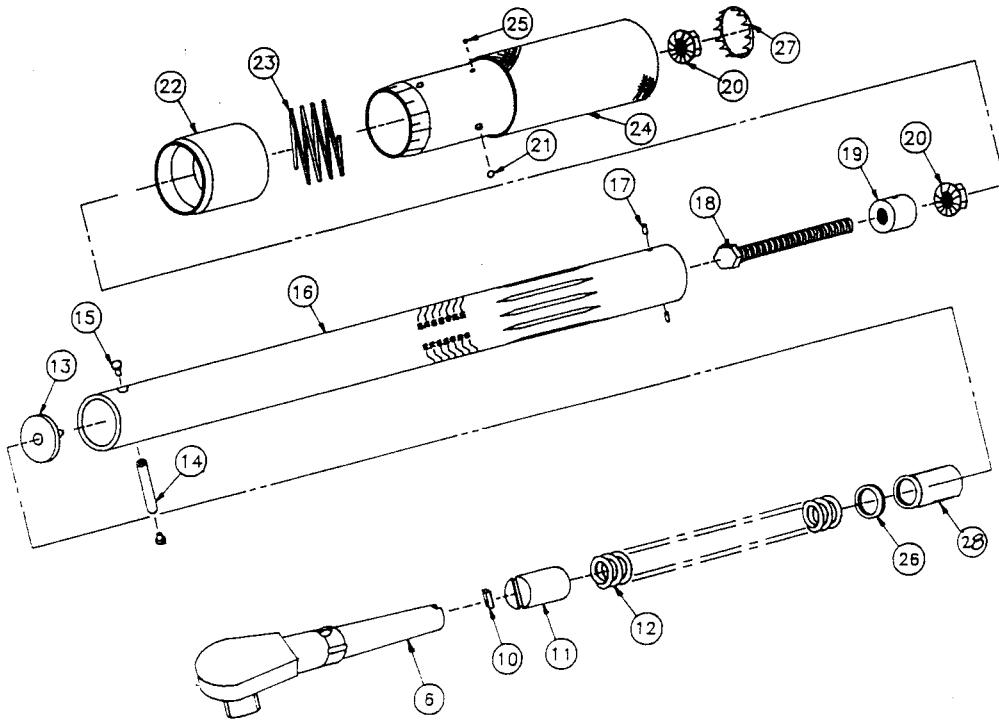
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGELS ±1/32 .001 ±.01 ±1/2° XXX.005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION MICRO.ADJ.WRENCH 1/4 DR. PLAIN 50 cm.kg	
FINISH		DRAWN <i>629</i> SCALE NONE	DRAWING NO.
APPROVED <i>Joy</i>		DATE 11-15-97	61-535-TAB

1	61-446-2	CSI 501KMMH
TAB #	ITEM 22▲	CUSTOMER

NOTES:

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
JZ	A	ADD -28, ITEM 18 WAS 61-242-2	6/7/93	Joy
		ITEM 12 WAS 61-265		
A.M.V.	B	ITEM 18 WAS 61-242-1	03-24-95	Joy
A.M.V.	C	ITEM 27 WAS 10-103-1	8-14-95	Joy

28	61-70	SPACER	
27	10-103-2	BUTTON PLUG	1
26	10-104-2	WASHER, FLAT	AR
25	10-106-1	BALL 3/32	1
24	61-248-1	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-1	ADJ. SCREW	1
17	10-106-5	BALL	2
16	61-250-1	TUBE, (ROLL STAMP)	1
15	61-263	RVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	25-13	SPRING, TORQUE	1
11	50-16	CAM	1
10	50-18	PAWL	1
6	61-100-4	ARM & DRIVE WELDMENT	1

CODE IDENT	PART NO.	DESCRIPTION	REQO
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 XX ±.01 ± 14°
 XXX ± .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/4 DR. PLAIN
 61 SERIES
 50 IN. LB.

DRAWN	SCALE NONE	DRAWING NO.
APPROVED	DATE 5/24/93	61-339-TAB

GSA	2	61-246-1	CDI 501 MMH
	1	SEE SEPARATE DWG.	
TAB #	ITEM 22	△	CUSTOMER

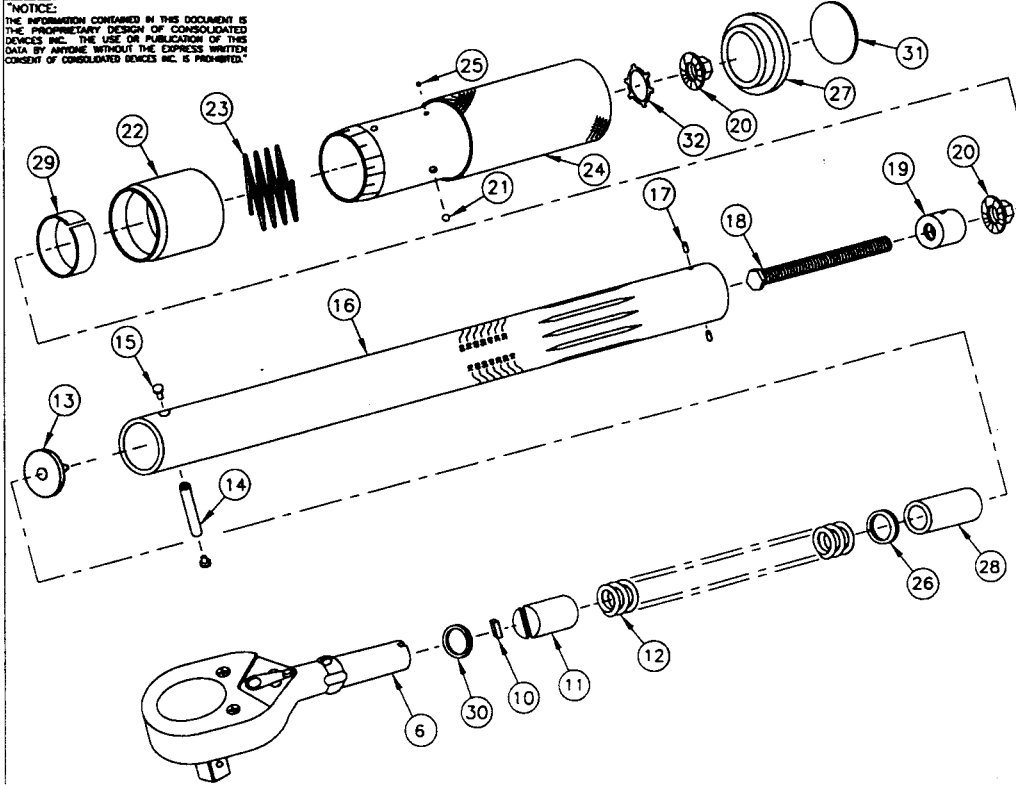
NOTES:

NAV BLUEPRINT SERVICE, INC. (818) 338-4409

SDI MMH

NOTE: UNCONTROLLED COPY

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	0	ITEM 27 WAS S/96-103-2	9-25-98	Jay

32	61-237	RETAINING RING-SELF LOCKING	1
31	10-203-1	CDI END PLUG (SMALL) ONLY FOR CDI	1
30	10-241-2	O-RING	1
29	47-338-2	NYLON BUSHING	1
28	61-70-1	SPACER (.85 LONG)	1
27	96-103-2	END PLUG-SMALL	1
26	10-104-2	WASHER, FLAT	A/R
25	10-106-1	BALL 3/32	1
24	61-448-1	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	A	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-4	ADJUSTING SCREW (2 3/16 LONG)	1
17	10-106-5	BALL	2
16	61-250-21	TUBE, (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	25-13	SPRING, TORQUE	1
11	50-16	CAM	1
10	61-18-0	PIVOT BLOCK	1
9			
8			
7			
6	B	RATCHET BODY ASSEMBLY	1
5			
4			
3			
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/4 DR. RATCHET
 50 IN.LB. RATCHET BODY-OVAL

DRAWN	SCALE	DRAWING NO.
Jay	NONE	61-332-TAB
APPROVED	DATE	
Jay	08-18-92	

- △ PRODUCT SHOULD BE MADE PER REV. "N" AFTER REV. "M" HAS BEEN PHASED OUT.
- △ USE ITEM 31 FOR CDI ONLY.
- △ IF 61-100-80 NOT AVAILABLE 61-115-0 CAN BE USED AS TEMPORARY REPLACEMENT.

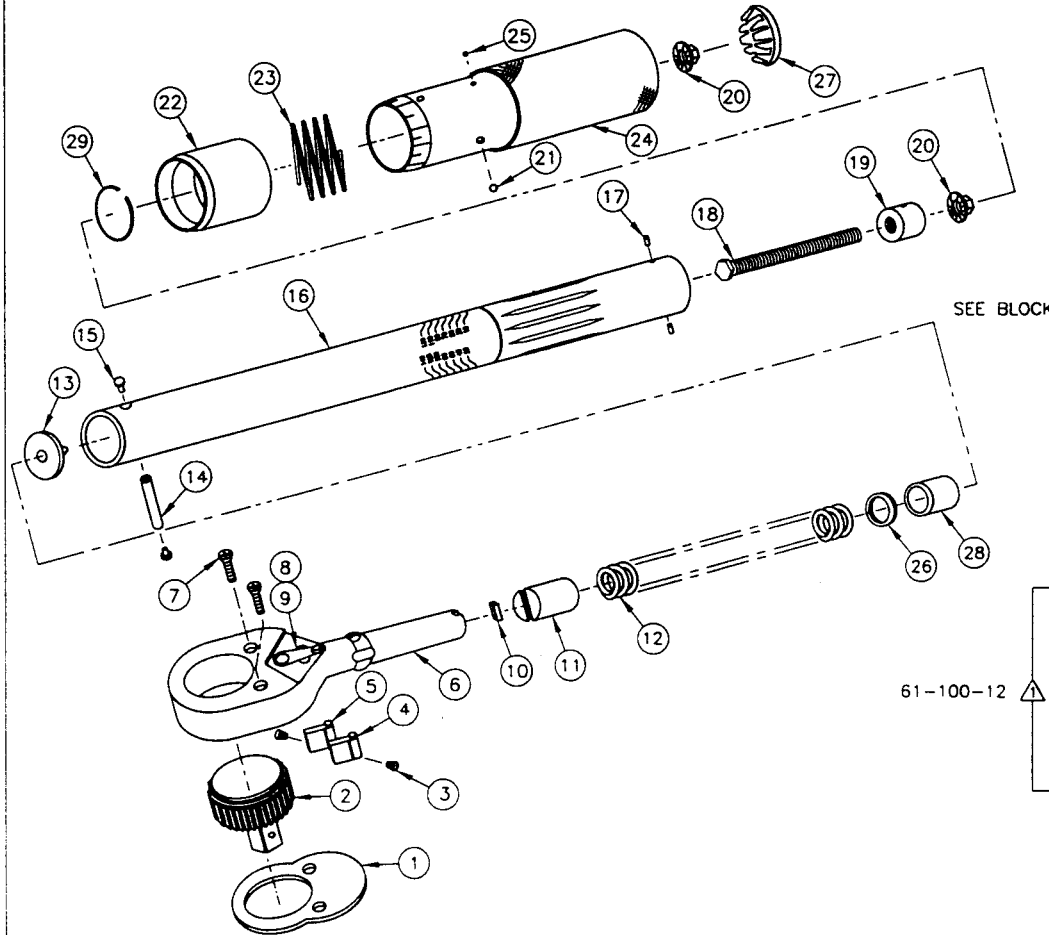
-7				
-6	61-946-2	61-100-8	MOUNTZ	MTW 50i
-5	61-258-2	61-100-8	V. BELKNAP	VB 501MRMH
△ -4	61-246-2	61-100-8	CDI	501MRMH-OR
-3	61-277-1	61-100-8	T & E	7292
-2	SEE SEPARATE DRAWING			
△ -1	61-246-2	61-100-80	CDI	501MRMH
TAB NO.	ITEM NO.	ITEM NO.	CUSTOMER	MODEL NO.
	22	6		

NOTE: UNCONTROLLED COPY

501MRMH COMMERCIAL
 501MRMH-QR

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	ADD ITEM 29, TAB NO. -2 & REDRAWN	10-2-97	Jay



29	47-238-4	SPRING RING	1
28	61-70	SPACER (1.00 LONG)	1
27	10-103-1	BUTTON PLUG	1
26	10-104-2	WASHER, FLAT	AR
25	10-106-1	BALL 3/32	1
24	61-348-10	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-4	ADJUSTING SCREW (2 3/16 LONG)	1
17	10-106-5	BALL	2
16	61-256-1	TUBE, (ROLL STAMPED)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	25-13	SPRING, TORQUE	2
11	50-16	CAM	1
10	50-18	PAWL	2
9		REVERSING CAM	1
8		REVERSING LEVER	1
7		SCREW	2
6		RATCHET BODY	1
5		DOG-RIGHT	1
4		DOG-LEFT	1
3		SPRING	2
2		RATCHET WHEEL	1
1		PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
: 1/32 .001 .01 : 1/2°
: .0002 .005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1/4 DR. RATCHET
50 dNm

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	06-28-96	61-632-TAB

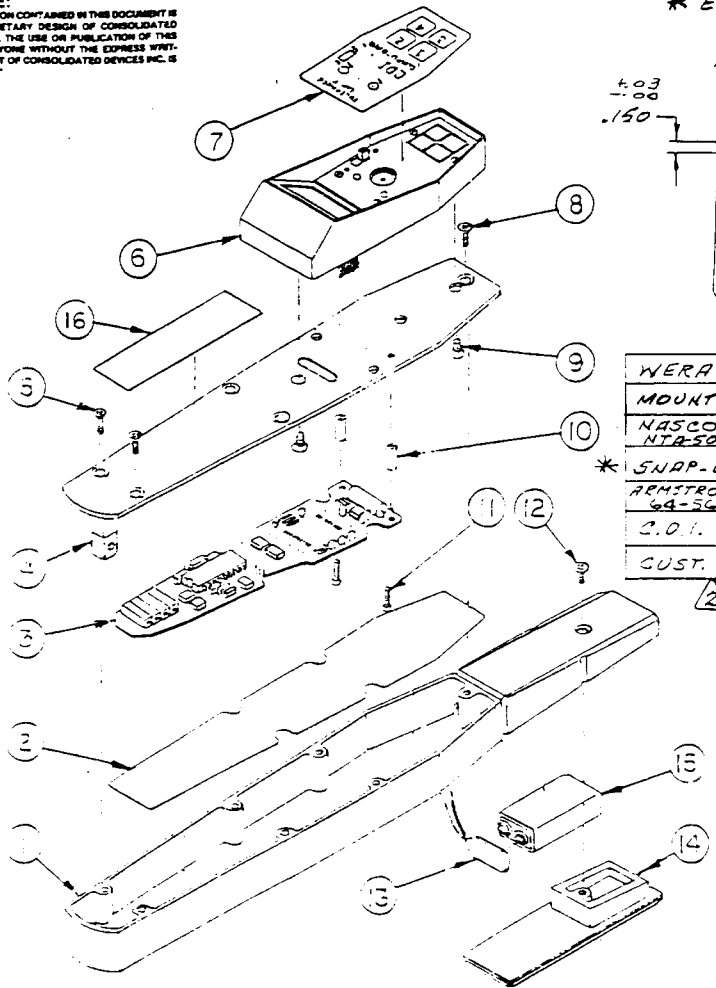
-2	61-269-2	CARLSONS 501NMRMH
-1	61-646-1	CDI 501NMRMH
TAB NO.	ITEM 22 ▲	CUSTOMER

▲ PURCHASED AS ASSEMBLY P/N 61-100-8 AND MODIFIED TO 61-100-12.
NOTES:

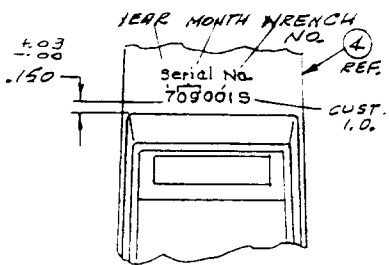
NOTE: UNCONTROLLED COPY

501NMRMH

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* ETCH AS NOTED FOR SNAP-ON



WERA	81-43-9
MDUNTZ	81-89
NASCO NTASOE	81-91-3
* SNAP-ON	81-77-1
ARMSTRONG 64-567	41-62
C.O.I.	81-43-1
CUST.	PART NO.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	PART NO. WAS 41-90	4/18/89	<i>[Signature]</i>
ZJS	B	ADD ITEM 7 LABEL COLUMN		
SA	C	ITEMS 5 & 8 WERE 10-111-1	3-2-94	707
SA	D	ITEM 16 WAS 81-54	3-18-94	77

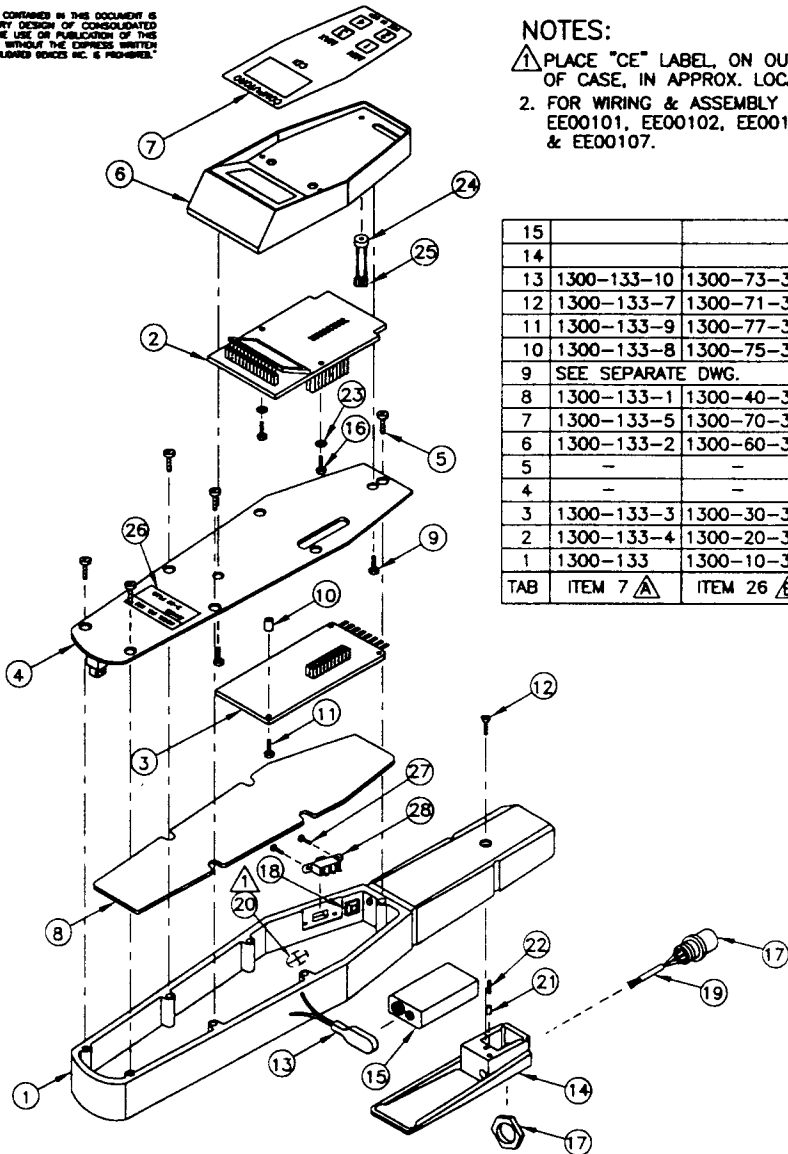
QTY	PART NO.	DESCRIPTION	REQD
	16 81-15	INSTRUCTION LABEL	1
	15 81-6	BATTERY (9V)	1
	14 41-5	COVER, BATTERY	1
	13 81-37	BATTERY PLUG	1
	12 10-109-20	FL.HD. MACH. SCREW 10-32X 1/2	1
	11 10-126-10	PAN HD. MACH. SCREW 6-32X 3/4	2
	10 81-51-5	SPACER	2
	9 10-228-4	SCREW, TAPPING #8X 1/2 LG.	2
	8 10-91-3	SCREW, TAPPING 10-24X 1/2 PAN HEAD	1
	7 12	LABEL, ZISC PLATE	1
	6 81-8	HOUSING & KEYBOARD ASSY.	1
	5 10-222-1	SCREW, TAPPING 10-24X 1/2 THRUST HEAD	4
	4 41-53	BEAM, PLATE WIRE ASSY. (STRAIN GAGE)	1
	3 81-49-1	PC. BOARD ASSY.	1
	2 41-50	INSULATION	1
	1 41-4	CASE	1

FOR MAIN PC BOARD, LOG BOARD & KEYBOARD WIRING ASSY. SEE 81-85

NOTE:

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
CONSOLIDATED DEVICES, INC. City of Industry, California			
COMPUTORQ		ETW	
SER. 41		RANGE 5-50 FT LB	
FINISH	DRAWN: ZJS	SCALE: —	DRAWING NO. 41-90-1
	APPROVED: <i>[Signature]</i>	DATE: 11-27	

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NOTES:

1. PLACE "CE" LABEL, ON OUTSIDE OF CASE, IN APPROX. LOCATION.
2. FOR WIRING & ASSEMBLY USE EE00101, EE00102, EE00103, EE00104 & EE00107.

15			
14			
13	1300-133-10	1300-73-3	TONE
12	1300-133-7	1300-71-3	MITUTOYO
11	1300-133-9	1300-77-3	HAUSER
10	1300-133-8	1300-75-3	BELKNAP
9	SEE SEPARATE DWG.	STAHLWILLE	
8	1300-133-1	1300-40-3	MOUNTZ
7	1300-133-5	1300-70-3	WERA
6	1300-133-2	1300-60-3	WRIGHT TOOL
5	-	-	-
4	-	-	-
3	1300-133-3	1300-30-3	ARMSTRONG
2	1300-133-4	1300-20-3	SNAP-ON
1	1300-133	1300-10-3	CDI
TAB	ITEM 7 Δ	ITEM 26 Δ	CUSTOMER

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	M	Δ WAS Δ , Δ WAS Δ , ADD TAB 13	5-14-89	Jay

28	1100-20	SWITCH	1
27	10-109-17	FLAT HEAD MACHINE SCREW	2
26	Δ	MODEL NO. LABEL	1
25	344-16-1	PCB CONNECTOR	1
24	81-28	BUZZER	1
23	10-205-3	WASHER, NYLON	2
22	10-101-29	SOCKET SET SCREW 8-32 X 1/4	1
21	42-6	PLUG	1
20	950-99	CE LABEL	1
19	82-24-2	CABLE	1
18	44-9	MOUNTING DEVICE	1
17	1100-77	RECEPTACLE WITH NUT & WASHER	1
16	10-126-18	PAN HEAD MACHINE SCREW 4-40 X 3/16	2
15	81-6	BATTERY 9V	1
14	1300-42-4	COVER, BATTERY	1
13	81-37	BATTERY PLUG	1
12	10-109-24	FLAT HEAD MACHINE SCREW 10-32 X 3/4	1
11	10-126-7	PAN HEAD MACHINE SCREW 4-40 X 1/2	1
10	1300-4-2	SPACER, 5/16 LONG.	1
9	10-225-9	BUTTON HEAD SOCKET CAP SCREW 8-32 NC X 5/16	2
8	41-50	INSULATION	1
7	Δ	KEY PAD	1
6	1300-1	HOUSING	1
5	10-222-1	SCREW, TAPPING 10-24 X 1/2	5
4	1300-41-53	BEAM, PLATE, WIRING ASSEMBLY (STRAIN GAGE)	1
3	1300-101	PC BOARD-ANALOG ASSEMBLY	1
2	1300-111	PC BOARD-DIGITAL ASSEMBLY	1
1	1300-42-5	CASE	1

Δ

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .XX ±.01 ±1/2°
XXX.005

MATERIAL

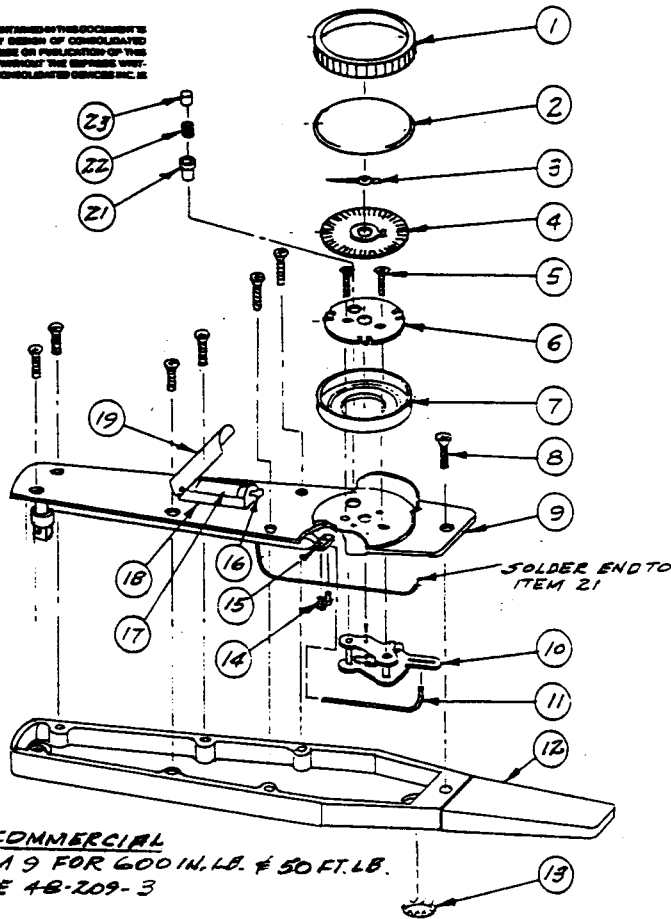
FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
COMPUTORQ II
RANGE 50 FT.LB. & 600 IN.LB.

DRAWN Z.J.S./SLW	SCALE NONE	DRAWING NO.
APPROVED Jay	DATE 09-14-94	1300-42-TAB

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COMMERCIAL
 ITEM 9 FOR 600 IN. LB. & 50 FT. LB.
 USE 48-209-3

G.S.A.
 ITEM 9 FOR 600 IN. LB. & 50 FT. LB.
 USE 48-209-36

ITEM NO. 18 & 19 ARE PART OF THE PLATE & BATTERY HOUSING ASSY. (ITEM NO. 9) ITEM NO. 18 IS TRACK WELDED TO PLATE.

NOTE:

TAB NO	SCALE ASSY.	RANGE	TOOL NO.
2	48-200-11	0-50 FT. LB. 0-70 N.M.	502 LDPE
1	48-201-11	0-600 IN. LB. 0-70 N.M.	600Z LDIE

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 12 WAS 48-24-1	2/15/90	[Signature]
SF	B	ITEM 11 WAS 84-11-3	10/26/95	[Signature]
SF	C	ITEM 11 WAS 84-11-2	1-12-94	[Signature]

REPL. BY 40-107UB

23	40-115	PLUNGER	1
22	10-106-2	SPRING	1
21	40-102	RETAINER, SPRING	1
19	40-107	LID, BATTERY HOUSING	1
18	40-112	BATTERY HOUSING ASSY.	1
17	40-113	BATTERY	1
16	40-98	G.E. LAMP NO. 112	1
15	40-185	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	40-222-5	CASE	1
11	84-11-3	PUSH ROD	1
10	10-113	MOVEMENT	1
9	40-112	PLATE & BATTERY HOUSING ASSY	1
8	10-222-1	SCREW, SELF-TAPPING - PLATE	7
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	48-13-1	SCALE ASSY.	1
3	48-13-1	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .001 .01 ± 1/2°
 .001 ± .005

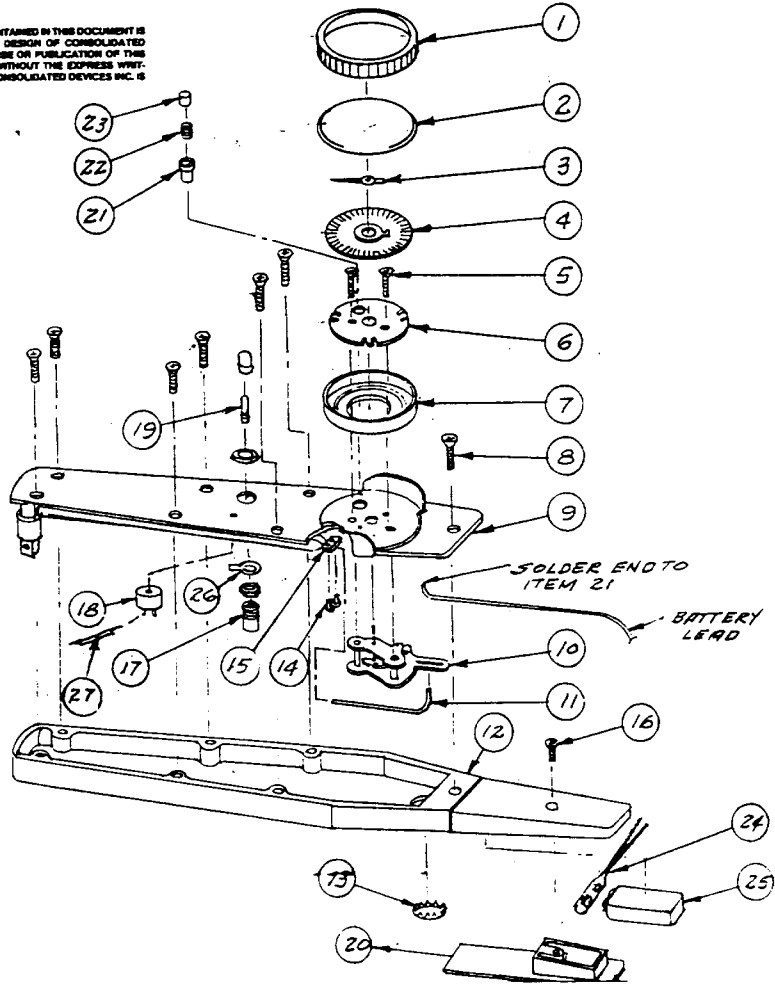
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (ELECTRIC) 3/8 DR.
 TORSION

50 FT. LB. 600 IN. LB.	SCALE	DRAWING NO.
DRAWN ZJS	DATE 2-8-90	48-270-TAB

502 LDPE
 600Z LDIE

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△ FOR WIRING ASSY. OF PARTS. SEE 44-10.

NOTE:

1	48-139-68	44-308-61	50 FT. LB 70 Nm	BEITOOOL
TAB NO	SCALE	ITEM	RANGE	CUSTOMER
	△ ASSY	△ 9		

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
CS	A	ITEM 11 WAS 84-11-2	1-12-94	Joy

△ 29	44-8	CABLE TIE (NOT SHOWN)	1
△ 28	44-9	MOUNTING DEVICE (NOT SHOWN)	1
△ 27	81-19-11	RESISTOR, CARBON FILM	1
△ 26	44-7	SOLDER TERMINAL	1
25	81-6	BATTERY	1
24	81-37	BATTERY PLUG	1
23	40-115	PLUNGER	1
22	10-105-2	SPRING	1
21	40-102	RETAINER, SPRING	1
20	41-5	BATTERY COVER	1
△ 19	44-6	LAMP	1
△ 18	81-28	BUZZER...	1
17	44-5	LAMP HOLDER	1
16	10-109-20	FL. ND. MACH. SCREW	1
15	40-145	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	84-2-1	CASE	1
11	84-11-3	PUSHROD	1
10	10-113	MOVEMENT	1
9	△	PLATE & GUARD ASSY.	1
8	10-236-1	SCREW, SELF TAPPING - PLATE	7
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	△	SCALE ASSY.	1
3	48-18-1	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 ± .01 ± 4°
 ± .005 ± .005

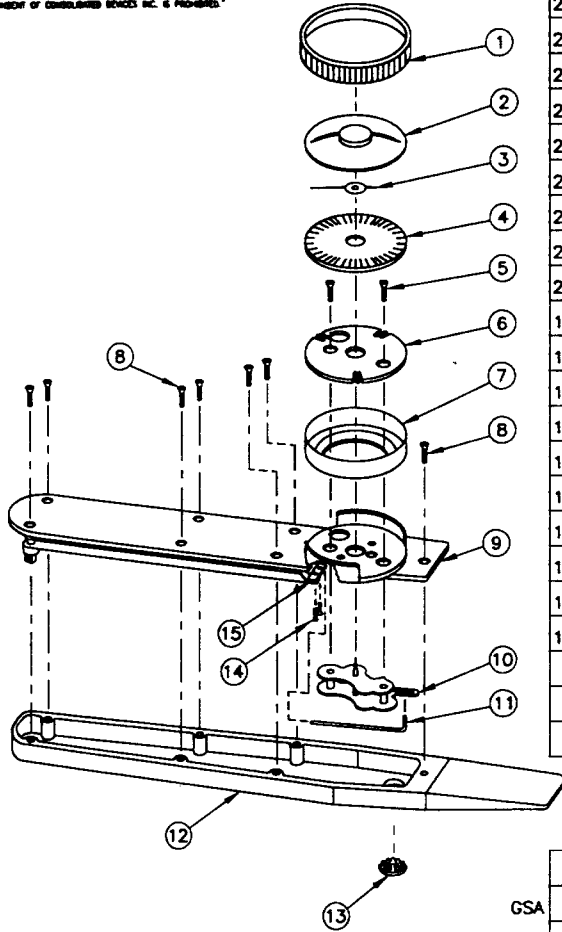
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (ELECTRIC, BEEPER) 3/8 DR.

50 FT. LB. 600 IN. LB.	TORSION
DRAWN ZJS	SCALE —
APPROVED Joy	DATE 1-6-94
DRAWING NO. 44-370-TAB	

50Z LDFE. PAINTED
 600Z LDFE

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29	48-208-6	48-200-51	0-50 FT.LB. 0-70 Nm	URREA 6113
28	48-208-6	48-200-24	0-50 FT.LB. 0-70 Nm	MAC TWO XSOFT
27	48-208-6	48-202-13	0-600 IN.LB. 0-700 CMKG	PROTO 6181A
26	48-208-6	48-200-13	0-70 Nm 0-50 FT.LB.	PROTO 6113NMA
25	48-208-6	48-201-26	0-600 IN.LB. 0-70 Nm	ARMSTRONG 64-355
24	48-208-6	48-200-26	0-50 FT.LB. 0-70 Nm	ARMSTRONG 64-356
23	48-208-6	48-202-67	0-70 Nm	CDI 70NLDN
22	48-408-6	48-202-70	0-70 Nm 0-600 IN.LB.	EUR/PALMERA Cod. 200.512
21	48-208-6	48-201-60	0-600 IN.LB. 0-70 Nm	V. BELKNAP VB 6002LDN
20	48-208-6	48-201-49	0-600 IN.LB. 0-70 Nm	USAG 823/70
19	48-208-6	48-200-62	0-50 FT.LB. 0-70 Nm	V. BELKNAP VB 502LDFN
18	48-208-6	48-202-68	0-70 Nm 0-600 IN.LB.	EUR/ACESA N# 3710.008
17	48-208-6	48-202-65	0-700 CMKG 0-600 IN.LB.	CDI 6002KLDN
16	48-208-6	48-203-65	0-7 MKG 0-50 FT.LB.	CDI 502KLDN
15	48-208-6	48-201-53	0-600 IN.LB. 0-70 Nm	WRIGHT TOOL 3472
14	48-208-6	48-200-53	0-50 FT.LB. 0-70 Nm	WRIGHT TOOL 3473
13	48-208-6	48-202-42	0-700 CMKG	CARLSON 6002KLDN
12	48-208-6	48-203-42	0-7 MKG 0-50 FT.LB.	CARLSON 502KLDN
11	48-208-6	48-202-60	700 kgcm 600 IN.LB.	OLY 7000B4
10	48-208-6	48-201-52	0-600 IN.LB. 0-70 Nm	T & E TOOLS
9	48-208-6	48-200-8	0-50 FT.LB. 0-70 Nm	WILLIAMS BTD-2-50F
8	48-208-6	48-211-9	0-700 dNm 0-700 cmkg	H. WARNER 7113 B
7	48-208-6	48-202-10	0-600 IN.LB. 0-700 CMKG	6002LDN

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	Z	ADD TAB NO. 36	8-3-99	[Signature]

37				
36	SEE SEPARATE DRAWING			KTC CMD072
35	48-208-6	48-23	0-600 IN.LB. 0-70 Nm	S.K 75060
34	48-208-6	48-203-13	0-50 FT.LB. 0-7 MKG	PROTO 6113A
32	48-208-6	48-201-30	0-600 IN.LB. 0-70 Nm	K-D TOOL 2652
31	48-208-6	48-201-42	0-600 IN.LB. 0-70 Nm	CARLSONS 6002LDN
30	48-208-6	48-200-42	0-50 FT.LB. 0-70 Nm	CARLSONS 502LDFN
TAB NO.	△	△	SCALE RANGE	CUSTOMER

16				
15	40-145	CLAMP, PUSH ROD		1
14	10-110-1	SCREW, MACHINED ROUND HEAD		2
13	10-103-3	BUTTON PLUG		1
12	40-222-5	CASE		1
11	84-11-3	PUSH ROD		1
10	10-113	MOVEMENT		1
9	△	PLATE & GUARD ASSEMBLY		1
8	10-222-1	SCREW, SELF TAPPING - REAR		7
7	48-83	RING, BEZEL MOUNTING		1
6	40-82	PLATE, DIAL MOUNTING		1
5	10-109-3	SCREW, MACHINE FLAT HEAD		2
4	△	SCALE		1
3	48-18-1	POINTER		1
2	48-132	MEMORY POINTER ASSEMBLY		1
1	48-B4	BEZEL		1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

6	48-208-6	48-201-29	0-600 IN.LB. 0-70 Nm	FACOM J255A
5	48-208-36	48-201-10	0-600 IN.LB. 0-70 Nm	6002LDN
4	SEE SEPARATE DRAWING			KTC CMD072
3	48-208-6	48-201-39	0-600 IN.LB. 0-70 Nm	O.T.C. 7881
2	48-208-6	48-200-10	0-50 FT.LB. 0-70 Nm	502LDFN
1	48-208-6	48-201-10	0-600 IN.LB. 0-70 Nm	6002LDN
TAB NO.	△	△	SCALE RANGE	CUSTOMER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
±1/32	JIS ±.01	±1/2°
	MILS ±.05	

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
DIAL WRENCH 3/8 DR. (MEMORY) TORSION
600 IN.LB. 50 FT.LB.

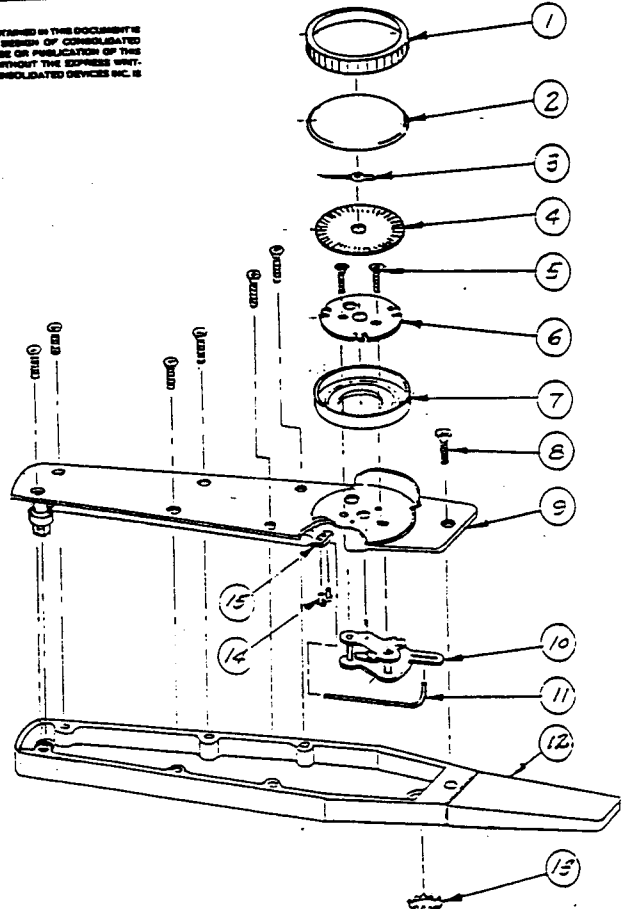
DRAWN	Z.J.S.	SCALE	NONE	DRAWING NO.	48-260-TAB
APPROVED	Z.K.	DATE	02-01-90		

NOTES:

NOTE: UNCONTROLLED COPY

502LDFN
6002LDN (TORSION)

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SEE TAB

SEE TAB

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ADD TAB	11-20-91	707
ZJS	B	ADD TAB 4	11-25-91	707
ZJS	C	ITEM B WAS 10-11-1	9/11/92	707
ZJS	D	ITEM 11 WAS 80-11-3	10/16/93	707
ZJS	E	ITEM 11 WAS 84-11-2	1-12-94	707

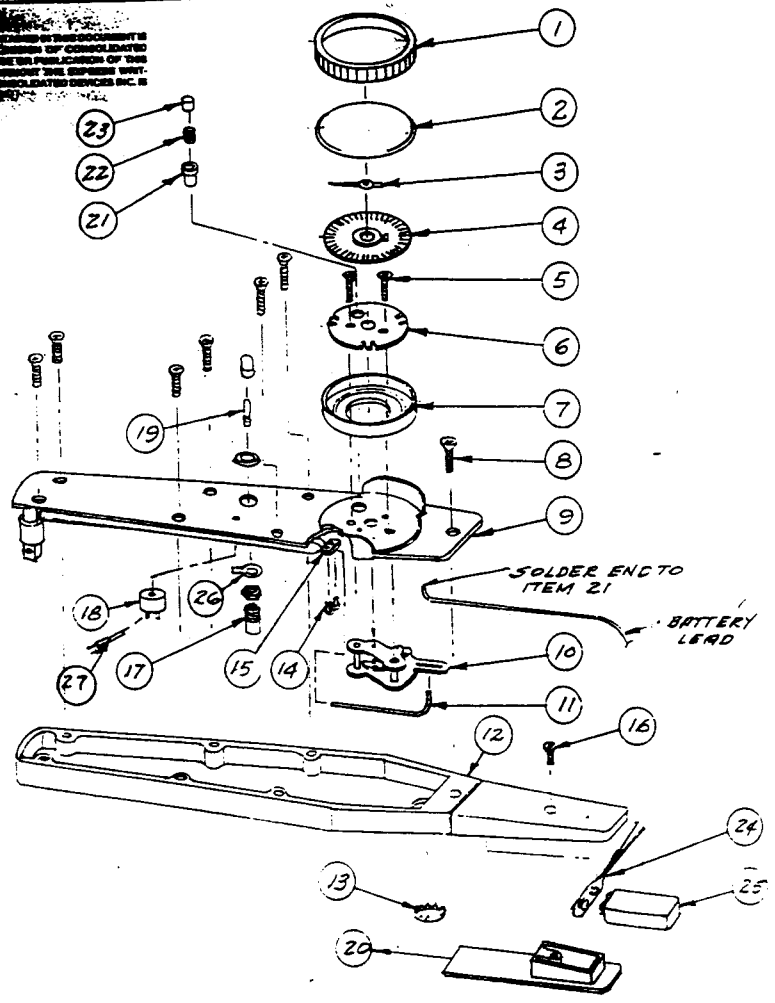
15	40-145	CLAMP, PUSH ROD	1
12	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	40-222-6	CASE	1
11	24-11-3	PUSHROD	1
10	10-113	MOVEMENT	1
9	1A	BEAM, PLATE DRIVE GUARD ASSY	1
8	10-222-1	SCREW, SELF TAPPING - PLATE	7
7	48-83	RING, BEZEL MOUNTING	1
6	20-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	A	SCALE	1
3	48-184	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

G.S.R.	4	48-208-39	48-202-1	0-600 IN. LB. 0-700 ENR.G	6008LD1
G.S.R.	3	48-208-37	48-201-4	0-600 IN. LB. 0-70 N.M.	6003LD1
	2			0-50 FT. LB. 0-70 N.M.	503LDF
	1	48-208-7	48-201-1	0-600 IN. LB. 0-70 N.M.	6003LD1
TAB. NO.		△	△	SCALE RANGE	CUST.

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±.002 ±.01 ±.5°			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION DIAL WRENCH (PLAIN) 1/2 BR. 50 FT. LB. 600 IN. LB. TORSION			
DRAWN	ZJS	SCALE	DRAWING NO.
APPROVED	707	DATE	5/21/91
			48-261-TAB

503LDF
6008LD1 (TORSION)

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
= 1/2 .XX = .01 = 1/4
XXX = .005



△ FOR WIRING ASSY. OF PARTS.
SEE DWG. 94-10.
NOTE:

2	48-200-12	0-50 FT. LB. 0-20 IN. LB.	503 LDFE
1		0-600 IN. LB. 0-70 IN. LB.	600 BLDIE
TAB NO.	△ SCALE ASSY.	RANGE	TOOL NO.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	DATE
ZJS	A	ADD ITEM 27	10-21-54	
ZJS	B	ADD ITEM 29	6-23-54	
ZJS	C	ITEM B WAS 10-111-1	10/11/54	
SD	D	ITEM 11 WAS 80-11-3	10/26/54	
SD	E	ITEM 11 WAS 84-11-2	1/13/54	

△	29	14-B	CABLE TIE (NOT SHOWN)	1
△	28	44-9	MOUNTING DEVICE (NOT SHOWN)	1
△	27	81-19-11	RESISTOR, CARBON FILM	1
△	26	44-7	SOLDER TERMINAL	1
	25	81-6	BATTERY	1
	24	81-37	BATTERY PLUG	1
	23	40-115	PLUNGER	1
	22	10-105-2	SPRING	1
	21	40-102	RETAINER, SPRING	1
	20	41-5	BATTERY COVER	1
△	19	44-6	LAMP	1
△	18	81-28	BUZZER	1
	17	44-5	LAMP HOLDER	1
	16	10-109-20	FL. HD. MACH. SCREW	1
	15	40-145	CLAMP, PUSH ROD	1
	14	10-110-1	SCREW, MACHINE EDGE HEAD	2
	13	10-103-3	BUTTON PLUG	1
	12	44-A-2	CASE	1
	11	84-11-3	PUSH ROD	1
	10	10-113	MOVEMENT	1
	9	44-80B-7	PLATE & GUARD ASSY.	1
	8	10-222-1	SCREW, SELF TAPPING - PLATE	7
	7	48-83	RING, BEZEL MOUNTING	1
	6	40-82	PLATE, DIAL MOUNTING	1
	5	10-109-5	SCREW, MACHINE FLAT HEAD	2
	4	△	SCALE ASSY.	1
	3	48-18-1	POINTER	1
	2	48-91	CRYSTAL	1
	1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
= 1/2 .XX = .01 = 1/4
XXX = .005

CONSOLIDATED DEVICES, INC.
City of Industry, California

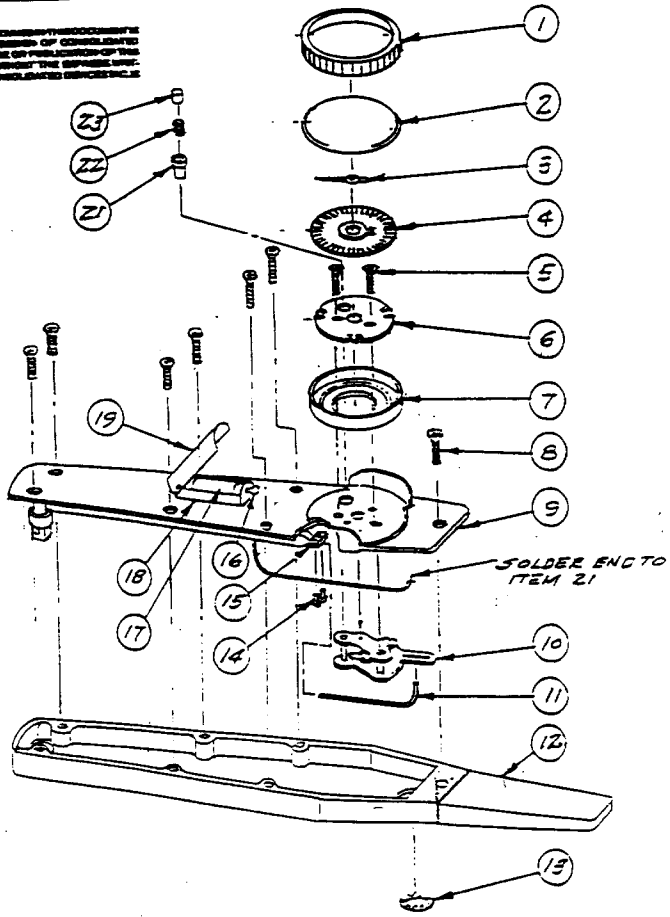
EXPLODED ILLUSTRATION DIAL WRENCH (ELECTRIC, BEEPER) 1/2 DE.		
50 FT. LB. 600 IN. LB.		TORSION
DRAWN ZJS	SCALE	DRAWING NO.
APPROVED <i>[Signature]</i>	DATE	44-171-TAB

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NOTE: UNCONTROLLED COPY

(COMMERCIAL) 503 LDFE 600 BLDIE

NOTE:
 1. DIMENSIONS AND TOLERANCES
 ARE PRESENTED IN INCHES
 UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS ARE IN INCHES
 UNLESS OTHERWISE SPECIFIED.
 3. DIMENSIONS ARE IN INCHES
 UNLESS OTHERWISE SPECIFIED.
 4. DIMENSIONS ARE IN INCHES
 UNLESS OTHERWISE SPECIFIED.
 5. DIMENSIONS ARE IN INCHES
 UNLESS OTHERWISE SPECIFIED.



REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SA	A	ITEM 11 WAS 80-11-3	10/26/93	729
SA	B	ITEM 11 WAS 84-11-2	1-12-94	767

23	40-115	PLUNGER	1
22	10-105-2	SPRING	1
21	40-102	RETAINER, SPRING	1
19	40-107	LID, BATTERY HOUSING	1
18	40-112	BATTERY HOUSING ASSY.	1
17	40-113	BATTERY	1
16	40-98	G.E. LAMP NO. 112	1
15	40-105	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	40-222-5	CASE	1
11	84-11-3	PUSHROD	1
10	10-113	MOVEMENT	1
9	48-209-39	PLATE & BATTERY HOUSING ASSY.	1
8	10-111-1	SCREW, SELF TAPPING - PLATE	7
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE DIAL MOUNTING	1
5	10-109-5	SCREW, MACHINE FLAT HEAD	2
4	SCALE ASSY.		1
3	48-18-1	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = .0005 = .01 = 4°
 = .001 = .005

MATERIAL

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (ELECTRIC) 1/2 DR.
 TORSION

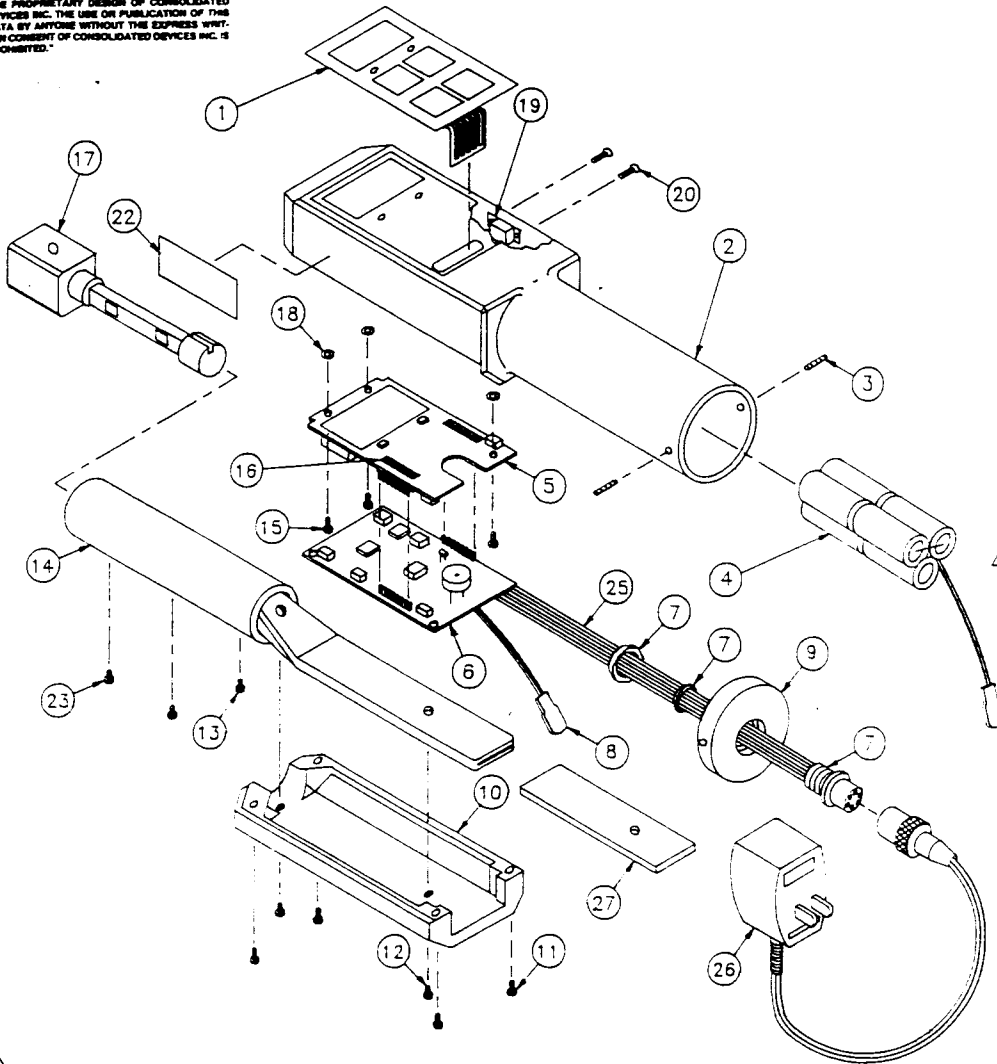
50 FT. LB. 600 IN. LB.

DRAWN ZJS SCALE --- DRAWING NO.
 APPROVED DATE 10/31/90. 48-271-TAB.

ITEM NO. 18 & 19 ARE PART OF THE PLATE &
 BATTERY HOUSING ASSY. (ITEM NO. 9) ITEM
 NO. 18 IS TACK WELDED TO PLATE.
NOTE:

2		0-SOFT LB.	503 LD5E
1		0-TO NIP	6003 LD1E
TAB NO	SCALE ASSY.	RANGE	TOOL NO.

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⚠ IF NECESSARY CUT SCREWS TO .42 LENGTH.
NOTES:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED

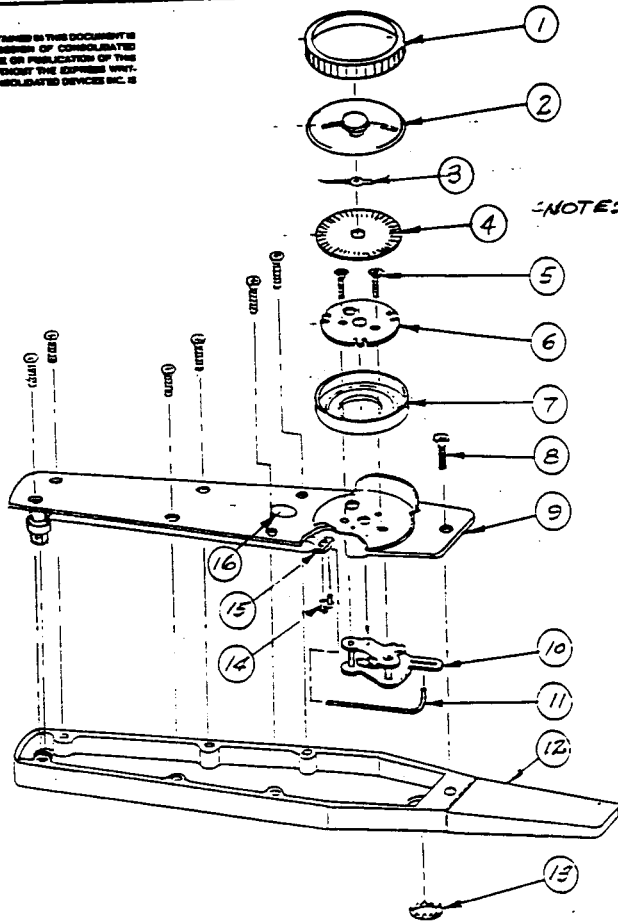
27	1100-140	COVER PAD	1
26	1100-7	AC ADAPTER	1
25	2000-100-36	RIBBON CABLE (10 IN.)	1
24			
23	10-225-17	BUTTON HEAD SOCKET CAP SCREW (8-32 X 1/4)	2
22	1100-116	LABEL	1
21			
20	10-109-17	FLAT HEAD MAC. SCREW (2-56 X 3/16) SLOTTED	2
19	1100-20	SWITCH	1
18	10-205-3	WASHER (NYLON) 4-40	3
17	1100-100-2	SENSOR BEAM ASSEMBLY	1
16	1100-105-2	NYLON STRIP	2
15	10-225-18	BUTTON HEAD SOCKET CAP SCREW (4-40 X 1/4)	3
14	1100-123	TUBE & SLEEVE ASSEMBLY	1
13	10-225-14	BUTTON HEAD SOCKET CAP SCREW (6-32 X 1/4)	1
12	10-128-22	HEX. SOCKET FLAT HEAD SCREW (6-32 X 1/2)	2
11	10-225-12	BUTTON HEAD SOCKET CAP SCREW (8-32 X 1/2)	4
10	1100-118-4	COVER (PRINTED)	1
9	1100-22	RETAINER, RECEPTACLE	1
8	81-37	BATTERY PLUG	1
7	1100-77	FEMALE RECEPTACLE, NUT & WASHER	1
6	1100-52-1	PC BOARD ASSEMBLY, ANALOG MITUTOYO & R Ser.	1
5	1100-24-3	PC BOARD ASSEMBLY, DIGITAL R Ser.	1
4	1100-5	BATTERY PACK	1
3	10-101-44	SOCKET SET SCREW (4-40 X 5/16 LONG)	2
2	1100-15-2	HOUSING	1
1	1100-27	DISPLAY BOARD (MITUTOYO) KEYPAD	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION 600 IN.LB. P.E.T. SER R			
MATERIAL		SERIES 1100	
FINISH		DRAWING NO. 1100-0-15	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .002 XX = .01 = 4° XXX = .005		DRAWN <i>LLJ</i> SCALE NONE DATE 1-13-94	
		APPROVED <i>70/1</i>	

6002-I-PET-R

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PACKAGING
 40-202-1 PLASTIC BOX
 88-32-4 BOX LABEL
 88-34 INSTRUCTION LABEL
 10-61-20Z BOX, INDIVIDUAL.

NOTE: INSTRUCTION LABEL TO BE ON INSIDE COVER OF BOX.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED BY
ZJS	A	WAS 40-202-1 PLASTIC BOX ADD 10-61-20Z BOX TO PACKAGING.	3/22/91	[Signature]
ZJS	B	ITEM B WAS 10-111-1	9/11/92	707
SP	C	ITEM 11 WAS 80-11-3	10/26/93	707
SP	D	ITEM 11 WAS 84-11-2	1-12-94	707
AM	E	40-202-1 WAS 44-202-1	2-27-98	707

16	88-35	INSPECTION LABEL	1
15	40-145	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	40-222-5	CASE	1
11	84-11-3	PUSHROD	1
10	10-113	MOVEMENT	1
9	48-208-6	BEAM, PLATE DRIVER GUARD ASSY	1
8	10-222-1	SCREW, SELF TAPPING - PLATE	7
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	48-202-15	SCALE	1
3	48-184	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 = .01 = 1/2°
 XXX = .005

CONSOLIDATED DEVICES, INC.

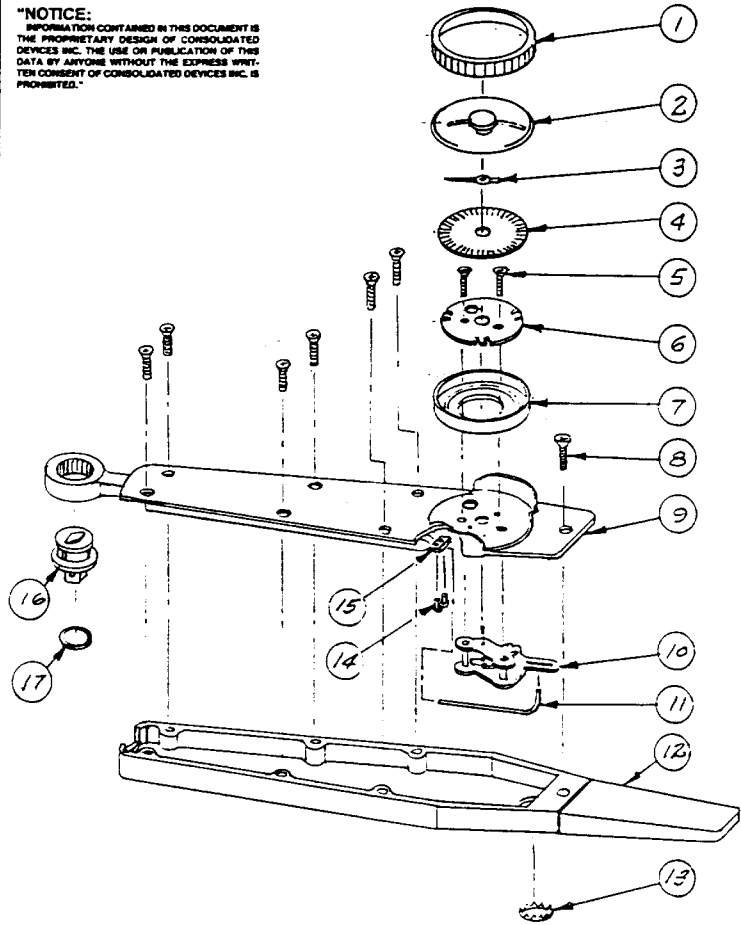
City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (MEMORY) 3/8 DR.
 0-700Kgf-CM
 0.70 N.M. TORSION

APPROVED	DRAWN ZJS	SCALE	DRAWING NO.
APPROVED [Signature]	DATE 7/23/90		48-260-4

6002 LDIN KTC CMD 072

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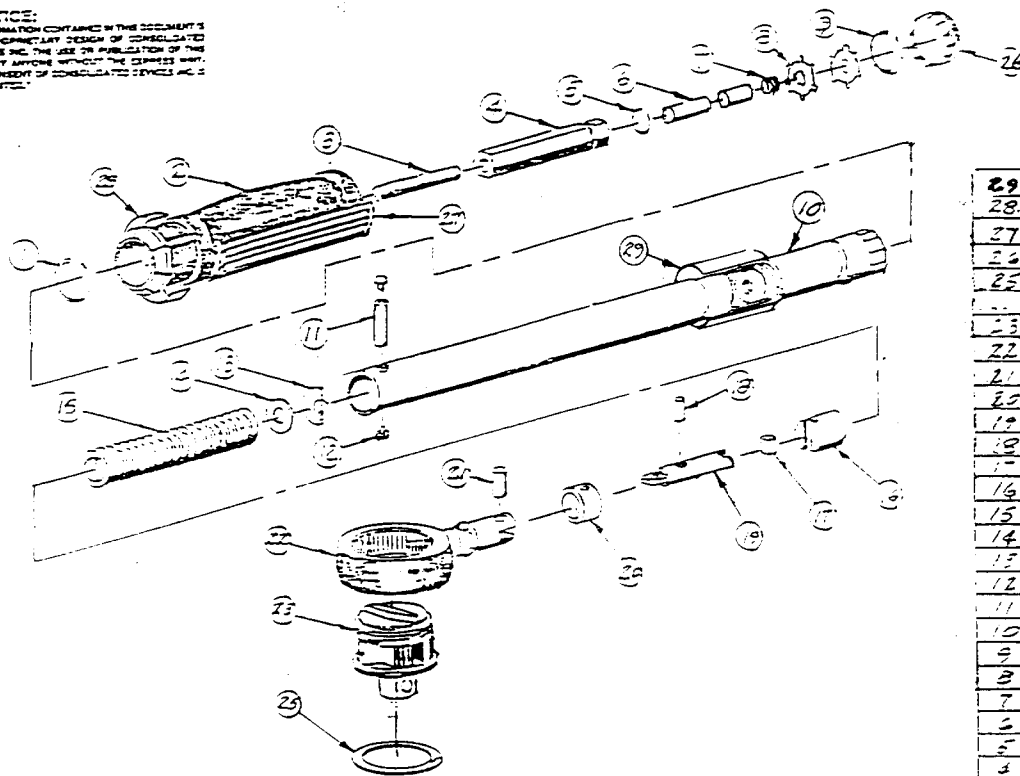
REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 9 WAS 34B-2 ITEM 5 WAS 10-109-1	2-6-87	[Signature]
ZJS	B	ITEM 8 WAS 10-111-1	9/11/92	[Signature]

17	370-3	RETAINING RING	1
16	370-2	GYPS, RATCHET	1
15	40-145	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	40-222-3	CASE	1
11	80-11-3	PUSH ROD	1
10	10-113	MOVEMENT	1
9	4B-10B-16	BEAM, PLATE, DRIVER & GUARD ASSY.	1
8	10-222-1	SCREW, SELF TAPPING - PLATE	7
7	4B-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE	1
3	4B-18-1	POINTER	1
2	4B-132	MEMORY POINTER ASSY.	1
1	4B-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = 1/32 .XX ±.01 = 1/4 ° XXX = .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION DIAL WRENCH (MEMORY) 3/8 DR. 600 IN. L.B.	
FINISH		DRAWN ZJS APPROVED [Signature]	SCALE — DATE 8.-5-86.
		DRAWING NO. 348-60-TAB	

G.D.I	1	4B-22	0-600 IN. L.B. 0-70 N.M.	600ZLDINR
TAB NO	▲	SCALE	RANGE	CUST.

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REVISIONS				
BY	LR	DESCRIPTION	DATE	APPROVED

29	60-222	LABEL TUBE		1
28	60-223	LABEL HANDLE		1
27	45-217	HANDLE GRIP		1
26	10-103-3	BUTTON PLUG HANDLE		1
25	95-44	RETAINING RING		1
23	95-109	QUICK RATCHET		1
22	60-83	RATCHET BODY		1
21	45-250	PIN ROLLER		1
20	61-60	ROLLER		1
19	61-62	SECONDARY ARM		1
18	10-102-36	PIN ROLLER		1
17	45-253-1	RAWL		1
16	45-251	RAWL		1
15	60-221	SPRING TORSION		1
14	10-104-1	WASHER FLAT		2/R
13	20-B	WASHER TUBST		1
12	45-92	RINET PIVOT PIN		2
11	45-91	PIN PIVOT		1
10	46-2-3	TUBE ASSY.		1
9	45-137	CLIP HEL. RETAINER		1
8	45-75	WASHER HEL. LOCK		2
7	10-101-19	SOC. SET SCREW HEL. BAR		1
6	45-6-1	PIN LOCK HEL. BAR		1
5	25-2	CLIP SPRING HEL. BAR		1
4	45-22	BAR HEL. INTERNAL ADJUSTING		1
3	10-101-1	SOC. SET SCREW HEL. BAR		1
2	46-1-1	HANDLE PLASTIC (BLACK)		1
1	25-74-1	CLIP HANDLE		1

CODE IDENT.	PART NO.	DESCRIPTION	QTY
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±.010 ±.001 ±.01 ±.001 ±.01°

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH. 3/8 RATCHET
 SER. 61

DATE	SCALE NONE	DRAWING NO.
10/15/51		61-134-1

2 HANDLE GRIP ITEM 27 TO BE PURCHASED IF REQUESTED.
 1 SEE 46-253-745 FOR WRENCHES TO BE RECALIBRATED

NOTE:

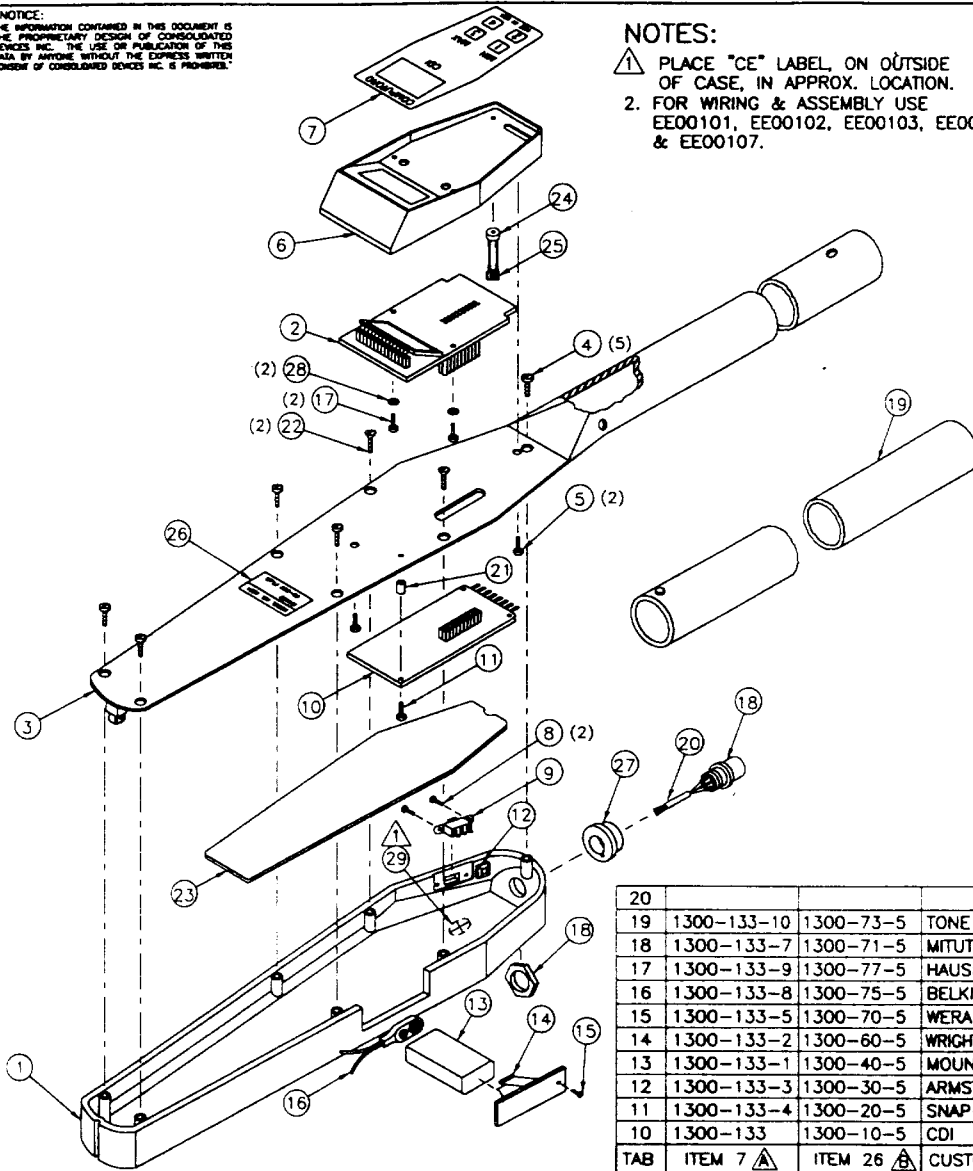
7 - SECONDARY ARM

6002 MTR (TELEPHONE)

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- NOTES:
 1. PLACE "CE" LABEL, ON OUTSIDE OF CASE, IN APPROX. LOCATION.
 2. FOR WIRING & ASSEMBLY USE EE00101, EE00102, EE00103, EE00104 & EE00107.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	1	ITEM 22 WAS 10-111-2	1-26-00	Jay



29	950-99	CE LABEL	1
28	10-205-3	WASHER, NYLON	2
27	1300-51-33	ADAPTER	1
26	▲	MODEL NO. LABEL	1
25	344-16-1	PCB CONNECTOR	1
24	81-28	BUZZER	1
23	51-50	INSULATION	1
22	10-109-32	FLAT HEAD MACHINE SCREW, 10-24 X.750 LONG	2
21	1300-4-3	SPACER 3/16 LONG	1
20	82-24-2	CABLE	1
19	90-16-1	HANDLE EXTENSION ASSEMBLY	1
18	1100-77	RECEPTACLE WITH NUT & WASHER	1
17	10-126-18	PAN HEAD MACHINE SCREW 4-40 X 3/16	2
16	81-37	BATTERY PLUG	1
15	10-227-1	FLAT HEAD TAPPING SCREW	1
14	1300-82-19	COVER & CLIP ASSEMBLY	1
13	81-6	BATTERY 9V	1
12	44-9	MOUNTING DEVICE	1
11	10-126-7	PAN HEAD MACHINE SCREW 4-40 X 1/2	1
10	1300-101	PC BOARD-ANALOG ASSEMBLY	1
9	1100-20	SWITCH	1
8	10-109-17	FLAT HEAD MACHINE SCREW	2
7	▲	KEY PAD	1
6	1300-1	HOUSING	1
5	10-225-9	BUTTON HEAD SOCKET CAP SCREW 8-32 NC X 5/16	2
4	10-222-5	SCREW, TAPPING 10-24 X 5/8	5
3	1300-91-53	BEAM, PLATE, WIRING ASSEMBLY (STRAIN GAGE)	1
2	1300-111	PC BOARD-DIGITAL ASSEMBLY	1
1	1300-92-1	CASE	1

20			
19	1300-133-10	1300-73-5	TONE
18	1300-133-7	1300-71-5	MITUTOYO
17	1300-133-9	1300-77-5	HAUSER
16	1300-133-8	1300-75-5	BELKNAP
15	1300-133-5	1300-70-5	WERA
14	1300-133-2	1300-60-5	WRIGHT TOOL
13	1300-133-1	1300-40-5	MOUNTZ
12	1300-133-3	1300-30-5	ARMSTRONG
11	1300-133-4	1300-20-5	SNAP-ON
10	1300-133	1300-10-5	CDI
TAB	ITEM 7 ▲	ITEM 26 ▲	CUSTOMER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
:1/32 .XX : 01 :1/2°
.XXX: .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

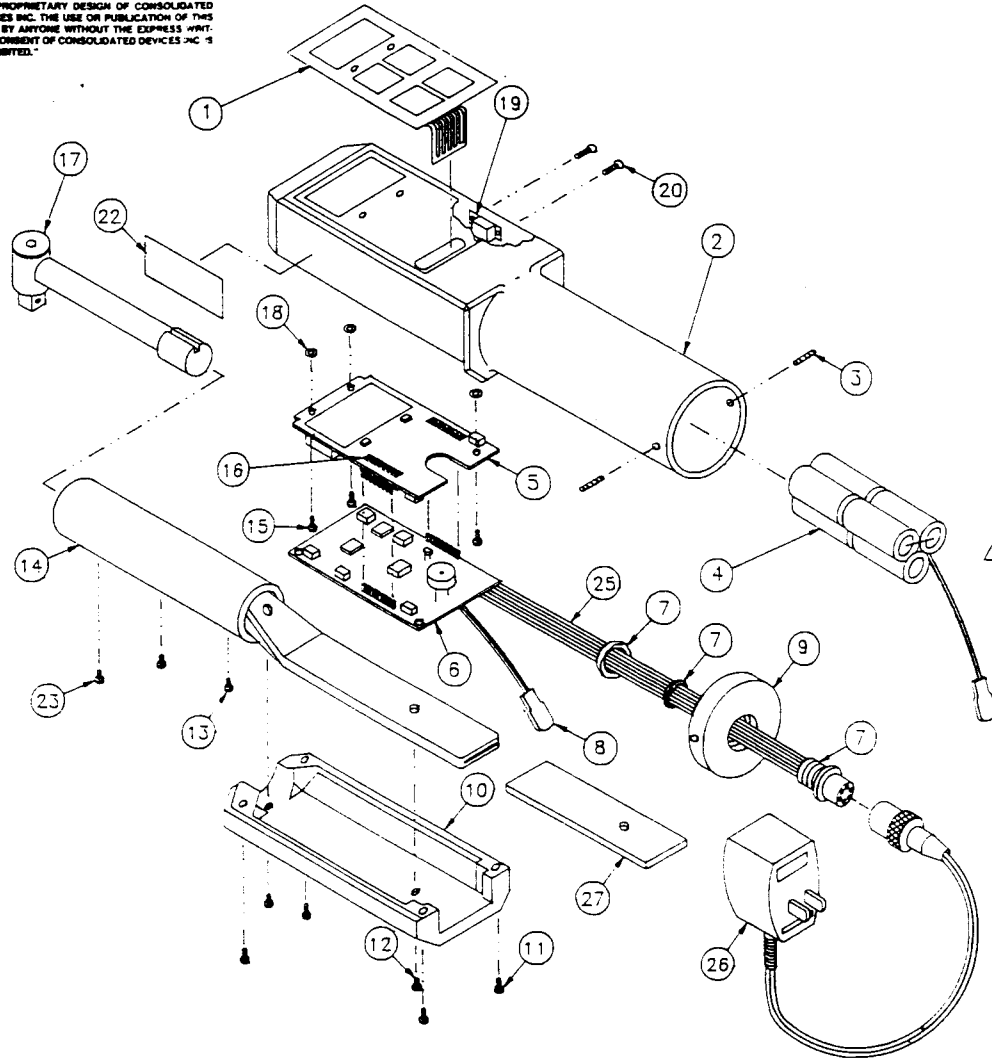
EXPLODED ILLUSTRATION
COMPUTORQ
RANGE 600 FT.LB.

DRAWN Z.J.S./A.M.V.	SCALE NONE	DRAWING NO.
APPROVED Jay	DATE 01-12-95	1300-92-TAB

NOTE: UNCONTROLLED COPY

6004CF - II

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⚠ IF NECESSARY CUT SCREWS TO .42 LENGTH.

NOTES:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED

27	1100-140	COVER PAD	1
26	1100-7	AC ADAPTER	1
25	2000-100-36	RIBBON CABLE (10 IN.)	1
24			
23	10-225-11	BUTTON HEAD SOCKET CAP SCREW (10-24 X 1/2)	2
22	1100-116	LABEL	1
21			
20	10-109-17	FLAT HEAD MAC. SCREW (2-56 X 3/16) SLOTTED	2
19	1100-20	SWITCH	1
18	10-205-3	WASHER (NYLON) 4-40	3
17	1100-210-7	SENSOR BEAM & HEAD ASSEMBLY	1
16	1100-105-2	NYLON STRIP	2
15	10-225-18	BUTTON HEAD SOCKET CAP SCREW (4-40 X 1/4)	3
14	1100-210-5	TUBE & SLEEVE ASSEMBLY	1
13	10-225-14	BUTTON HEAD SOCKET CAP SCREW (6-32 X 1/4)	1
12	10-128-22	HEX. SOCKET FLAT HEAD SCREW (6-32 X 1/2)	2
11	10-225-12	BUTTON HEAD SOCKET CAP SCREW (8-32 X 1/2)	4
10	1100-118-2	COVER (PRINTED)	1
9	1100-22	RETAINER, RECEPTACLE	1
8	81-37	BATTERY PLUG	1
7	1100-77	FEMALE RECEPTACLE, NUT & WASHER	1
6	1100-52-1	PC BOARD ASSEMBLY, ANALOG MITUTOYO F R SER.	1
5	1100-24-3	PC BOARD ASSEMBLY, DIGITAL R SER.	1
4	1100-5	BATTERY PACK	1
3	10-101-44	SOCKET SET SCREW (4-40 X 5/16 LONG)	2
2	1100-15-2	HOUSING	1
1	1100-27	DISPLAY BOARD (MITUTOYO) KEYPAD	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
------------	----------	-------------	------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE
 FRACTIONS DECIMALS ANGLES
 = 1/32 .XX = .01 = 1/4°
 XXX = .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 600 FT.LB. PET

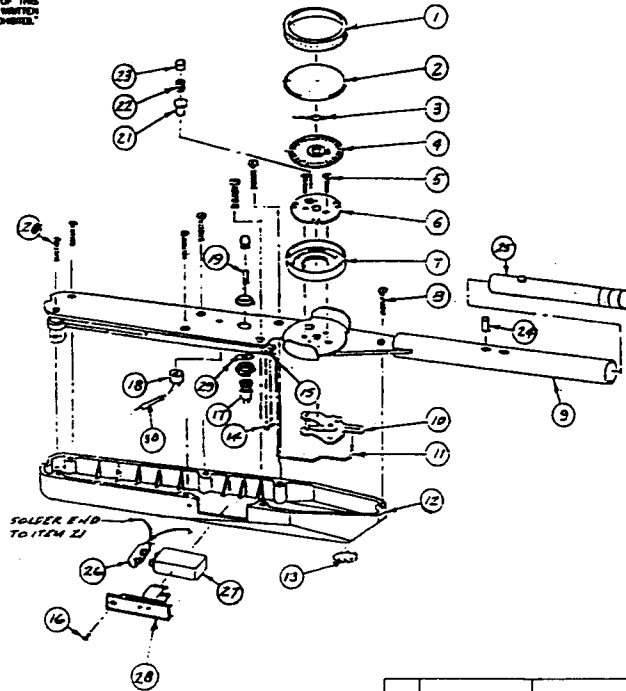
SERIES 1100 SERIES R

DRAWN	del	SCALE	NONE	DRAWING NO.	1100-0-13
APPROVED	707	DATE	1-13-94		

6004-F-PET-R

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	L	ADD ITEMS 31 & 32, REDRAWN	2-8-99	ZJK



32	44-9	MOUNTING DEVICE (NOT SHOWN)	1
31	44-8	CABLE TIE (NOT SHOWN)	1
30	81-19-11	RESISTER CARBON FILM (NOT SHOWN)	1
29	44-7	FLAT SOLDER TERMINAL	1
28	94-19	COVER & CLIP ASSEMBLY	1
27	81-6	BATTERY	1
26	81-37	BATTERY HOLDER	1
25	90-16-1	HANDLE EXTENSION ASSEMBLY	1
24	10-107-2	PIN, SPRING	1
23	40-115	PLUNGER	1
22	10-105-2	SPRING	1
21	40-102	RETAINER, SPRING	1
20	10-221-1	SCREW SELF TAPPING-PLATE	6
19	44-6	LAMP	1
18	81-28	BUZZER	1
17	44-5	LAMP HOLDER	1
16	10-227-1	FL. HD. TAPPING SCREW	1
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	94-15-2	CASE	1
11	80-11-2	PUSH ROD	1
10	10-113	MOVEMENT	1
9	▲	PLATE & GUARD ASSEMBLY (SEE TAB)	1
8	10-221-2	SCREW, SELF TAPPING - REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE ASSEMBLY ELECTRIC (SEE TAB)	1
3	48-18-3	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1
ITEM	PART NO.	DESCRIPTION	REQ'D

13	44-208-11	48-139-81	0-800 Nm 0-600 FT. LB.	EUR/PALMERA COD.200.531
12	44-208-11	48-139-71	0-800 FT.LB. 0-800 Nm	WRIGHT TOOL 6472
G.S.A. 11	SEE SEPARATE DWG. SPEC. LENGTH			6004LDFE
10	44-208-11	48-139-66	0-800 FT.LB. 0-800 Nm	FACOM K290A
▲ G.S.A. 9	44-208-41	48-139-10	0-800 FT.LB. 0-800 Nm	6004LDFE-GSA/P9
8	44-208-11	48-139-65	0-800 FT.LB. 0-800 Nm	CAT 9U5014
7	44-208-11	48-139-18	0-80 MKp 0-800 Nm	H. WERNER 7126E
6	44-208-11	48-139-63	0-800 FT.LB. 0-800 Nm	WMS HTD-3-600F
5	44-208-11	48-139-32	0-800 FT.LB. 0-800 Nm	ARMSTRONG 84-45B
4	44-208-11	48-139-42	0-800 FT.LB. 0-80 MKG	MATCO TWB000FE
3	44-208-11	48-139-30	0-800 FT.LB. 0-800 Nm	MAC TW2600FT-LS
2	44-208-11	48-139-59	0-800 FT.LB. 0-800 Nm	CARLSON 6004LDFE
1	44-208-11	48-139-10	0-800 FT.LB. 0-800 Nm	C.D.I. 6004LDFE
TAB NO.	▲	▲	RANGE	CUSTOMER

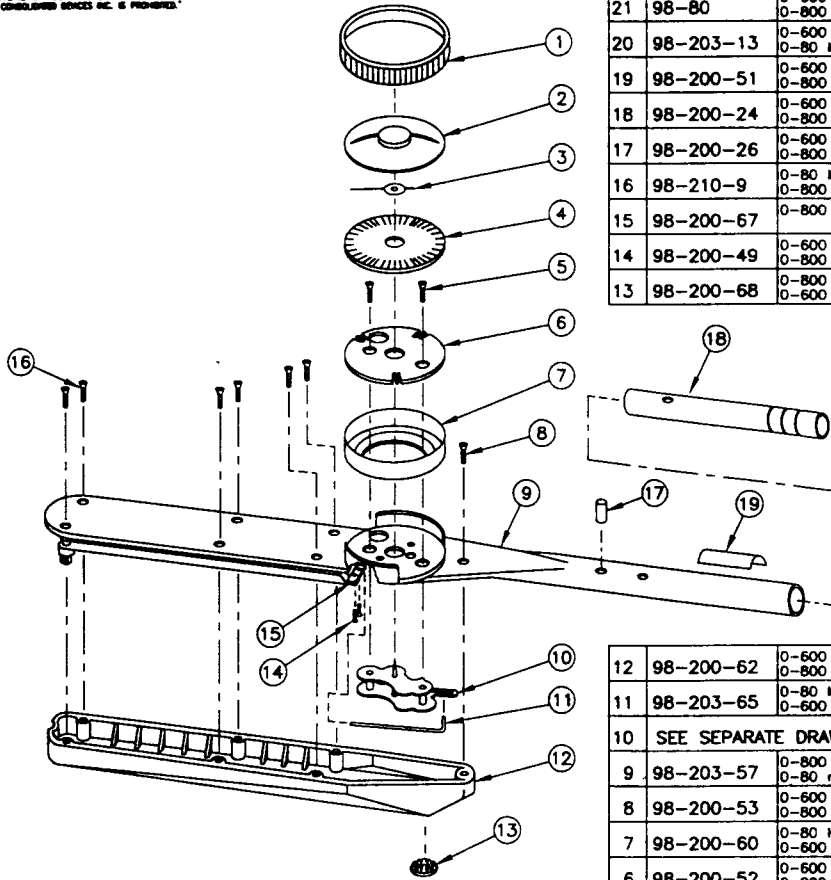
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES :1/32 .001 .01 :1/2°			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION 3/4 DR. DIAL WRENCH (ELECTRIC)			
0-600 FT.LB., 0-800 Nm TORSION			
DRAWN	Z.J.S.	SCALE	NONE
APPROVED	ZK	DATE	02-08-91
DRAWING NO.			94-172-TAB

▲ FOR TAB NO. -9 ETCH NSN-5120-01-396-5680 ON ITEM 9.

NOTE: UNCONTROLLED COPY

6004LDFE

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22	SEE SEPARATE DRAWING	CSA #9 6004LDF
21	98-80	0-600 FT.LB. 0-800 Nm S.K. 75600
20	98-203-13	0-600 FT.LB. 0-80 MKG PROTO P#1 6133A
19	98-200-51	0-600 FT.LB. 0-800 Nm URREA 6133
18	98-200-24	0-600 FT.LB. 0-800 Nm MAC TWD 2600FT
17	98-200-26	0-600 FT.LB. 0-800 Nm ARMSTRONG 64-455
16	98-210-9	0-80 MKP 0-800 Nm HERMANN WERNER 7116E
15	98-200-67	0-800 Nm 0-800 Nm CDI 800NLDN
14	98-200-49	0-600 FT.LB. 0-800 Nm USAG 823/800
13	98-200-68	0-800 Nm 0-600 FT.LB. EUR/ACESA N # 3710.020

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	X	ADD TAB NO. 23	8-3-89	JZ

28			
27			
26			
25			
24			
23	SEE SEPARATE DRAWING		KTC CMD804
TAB NO.	SCALE	RANGE	CUSTOMER

19	15-60	LABEL, WARNING	1
18	90-16-1	HANDLE, EXTENSION ASSEMBLY	1
17	10-107-2	PIN, SPRING	1
16	10-221-1	SCREW SELF TAPPING-PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	90-15-2	CASE	1
11	80-11-2	PUSH ROD	1
10	10-113	MOVEMENT	1
9	48-208-11	HANDLE, CHANNE, PLATE & GUARD ASSEMBLY	1
8	10-221-2	SCREW, SELF TAPPING - REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4		SCALE	1
3	48-18-3	POINTER	1
2	48-132	MEMORY POINTER ASSEMBLY	1
1	48-84	BEZEL	1

12	98-200-62	0-600 FT.LB. 0-800 Nm V. BELKNAP VB 6004LDFN
11	98-203-65	0-80 MKG 0-600 FT.LB. CDI 6004KLDFN
10	SEE SEPARATE DRAWING	GSA
9	98-203-57	0-800 Nm 0-80 mkg CDI-HOFFMANN 800 NLD
8	98-200-53	0-600 FT.LB. 0-800 Nm WRIGHT TOOL 6470
7	98-200-60	0-80 KGM 0-600 FT.LB. OLY 8000 DB4
6	98-200-52	0-600 FT.LB. 0-800 Nm T & E TOOLS
5	98-200-8	0-600 FT.LB. 0-800 Nm WILLIAMS HTD-2-600F
4	98-203-10	0-600 FT.LB. 0-80 MKG C.D.I. 6004LDFN
3	SEE SEPARATE DRAWING	KTC CMD804
2	98-200-39	0-600 FT.LB. 0-800 Nm OTC 7384
1	98-200-10	0-600 FT.LB. 0-800 Nm C.D.I. 6004LDFN

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/32 ±.01 ±1/2° ±.0025 ±.005			
CONSOLIDATED DEVICES, INC. City of Industry, California EXPLODED ILLUSTRATION DIAL WRENCH 3/4 DR. (MEMORY) TORSION 0-600 FT.LB. 0-800 Nm			
MATERIAL		FINISH	
DRAWN Z.J.S.		SCALE NONE	
APPROVED Z.K.		DATE 02-08-91	
DRAWING NO.		98-162-TAB	

TAB NO.	SCALE	RANGE	CUSTOMER
23	SCALE	RANGE	KTC CMD804

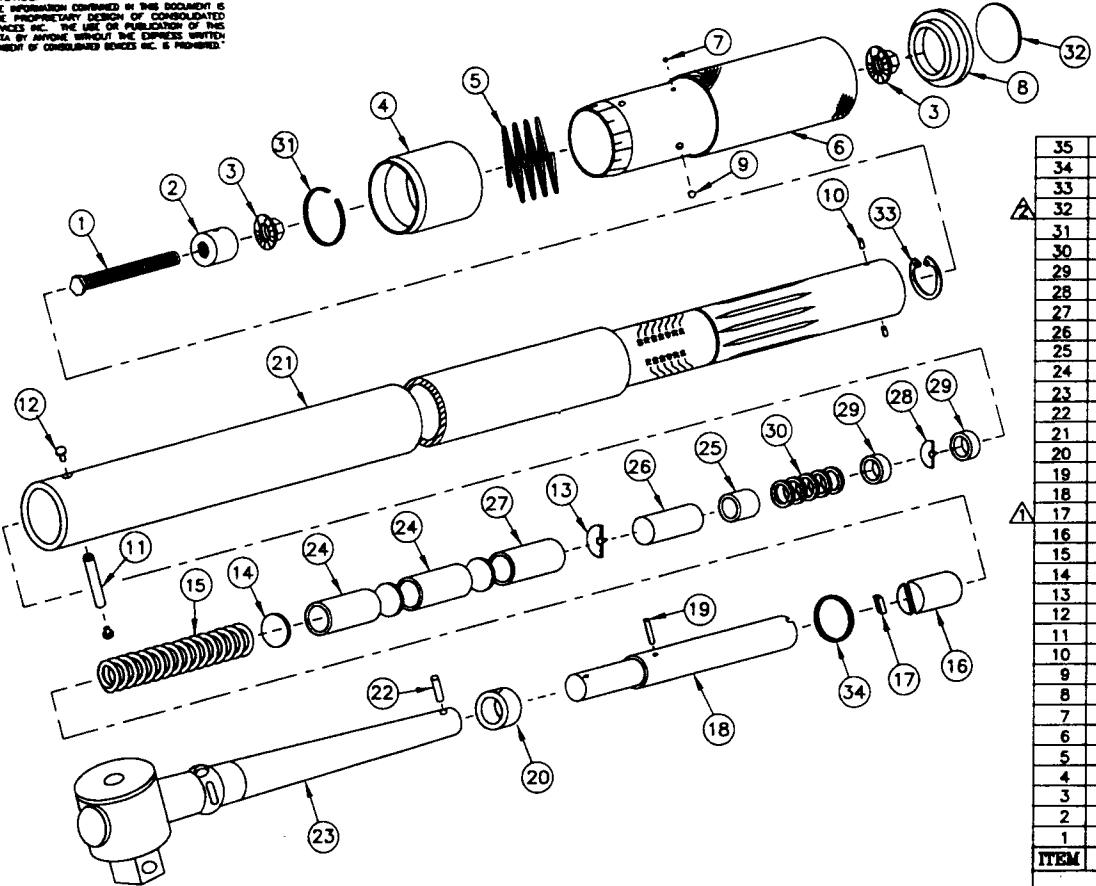
NOTES:

NOTE: UNCONTROLLED COPY

6004LDFN

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	H	ITEM 1 WAS 47-342-3	6-11-99	707



35			
34	10-241-4	O-RING	1
33	10-238-2	RETAINING RING	1
32	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
31	47-238-1	SPRING RING	1
30	10-104-1	WASHER, FLAT	7
29	95-28-4	SPACER (.35 LONG)	2
28	30-8	WASHER, THRUST	1
27	216-24	SPACER (1.60 LONG)	1
26	216-41	SPACER (3.60 LONG)	1
25	95-28-1	SPACER (1.38 LONG)	1
24	215-20	SPACER (3.09 LONG)	2
23	215-34	ARM & DRIVE ASSEMBLY	1
22	215-104	PIN, ROLLER	1
21	216-13-1	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-2	SECONDARY ARM	1
17	45-253-3	PAWL	1
16	215-32	CAM	1
15	215-86	SPRING, TORQUE	1
14	215-82-2	WASHER, FLAT	3
13	85-10-2	WASHER, THRUST	1
12	45-92	RIVET, PIVOT PIN	2
11	215-47-1	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	96-103-3	END PLUG SNAP-ON, CDI	1
7	10-106-1	BALL (3/32)	1
6	47-248-10	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-249	SPRING, LOCK RING	1
4	47-245-1	LOCK RING	1
3	47-245-1	HEX, FLANGE NUT	2
2	47-241	INSERT TUBE	1
1	47-342-5	ADJUSTING SCREW (2.250 LONG)	1
ITEM	PART NO.	DESCRIPTION	REQ'D

△ USE ITEM 32 FOR CDI ONLY.
△ SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.
NOTES:

-6			
-5			
-4			
-3			
-2	47-273-19	WILLIAMS	HTW-4PCFA
-1	47-246-19	CDI	6004MFMH
TAB NO.	ITEM NO.	CUSTOMER	MODEL NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 .001 .01 ±1/2°
XXX.005

CONSOLIDATED DEVICES, INC.
City of Industry, California

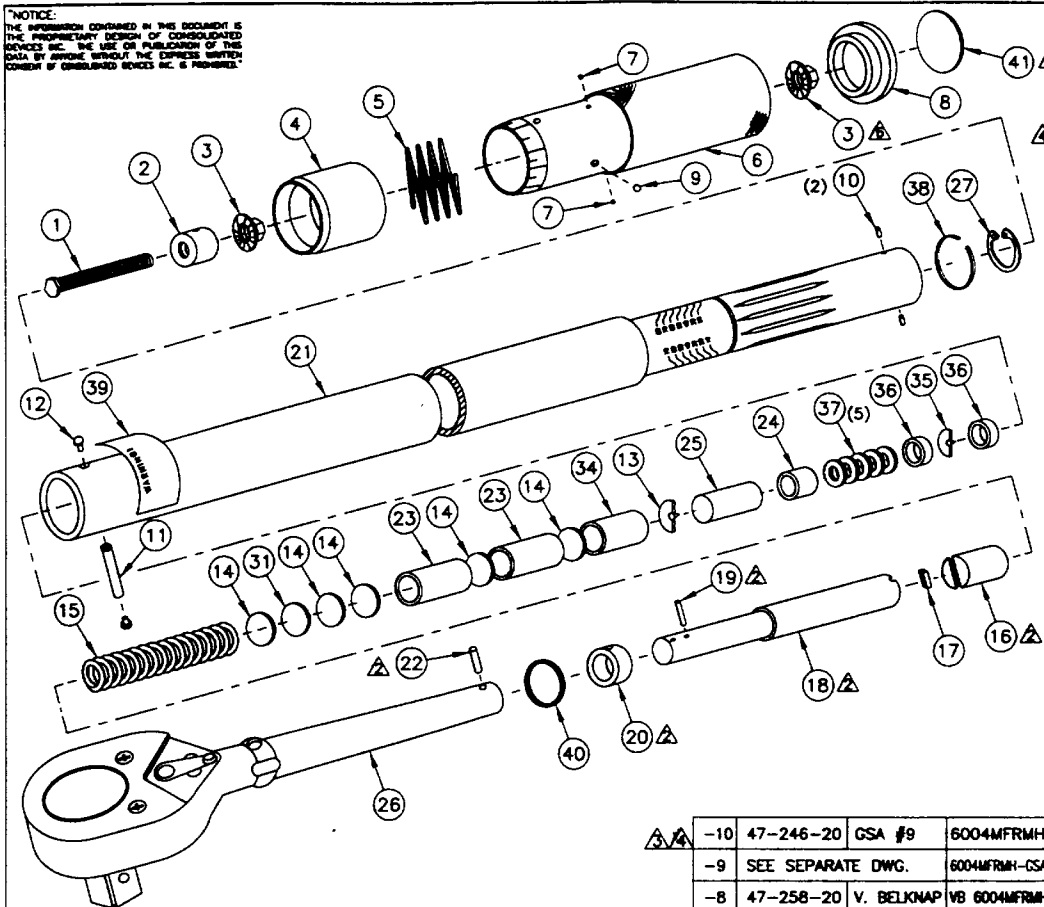
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/4 DR. PLAIN
600 FT.LB.

DRAWN <i>slj</i>	SCALE NONE	DRAWING NO.
APPROVED <i>jay</i>	DATE 01-23-92	216-231-TAB

NOTE: UNCONTROLLED COPY

6004 MFMH

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△ AFTER CALIBRATION, APPLY ITEM 28 TO ITEM 3.

5 LUBE ITEMS 1, 13, 14, 15, 23, 24, 25, 28, 34, 35, 36 & 37 WITH ITEM 30 BEFORE ASSEMBLY.

△ USE ITEM 41 FOR CDI ONLY.

△ ETCH NSN 5120-01-396-5918 ONLY FOR GSA #9.

△ LUBE ITEMS 16, 18, 19, 20 & 22 WITH ITEM 29 BEFORE ASSEMBLY.

1 SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.

NOTES:

TAB NO.	ITEM NO.	CUSTOMER	MODEL NO.
△ 4	-10	47-246-20 GSA #9	6004MFRMH
	-9	SEE SEPARATE DWG.	6004MFRMH-CSA
	-8	47-258-20 V. BELKNAP	VB 6004MFRMH
	-7	47-275-20 GRAY TOOL	MFR 600HD
	-6	47-946-20 MOUNTZ	MTW 600F
	-5	47-273-20 WILLIAMS	HTW-4RCFA
	-4	47-259-20 WRIGHT TOOL	6448
	-3	47-266-4 T & E	7297
	-2	47-250-5 CAT	9U5007
△ 4	-1	47-246-20 CDI	6004MFRMH

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	U	REV 7 MWS REQ. 1, REV 14 MWS REQ. 3, REV 17 MWS 45-253-3, REV 22 MWS 10-102-4, RELOCATED ALL ITEMS IN ORDER OF ASSEMBLY, ADD ITEMS 28 THRU 31, CHG. NOTE 2 & ADD NOTES 5, 6	12-15-91	Jay

ITEM	PART NO.	DESCRIPTION	REQ'D
41	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
40	10-241-4	O-RING	1
39	15-65	LABEL, WARNING	1
38	47-238-1	SPRING RING	1
37	10-104-1	WASHER, FLAT	5
36	95-28-4	SPACER (.35 LONG)	2
35	30-8	WASHER, THRUST	1
34	216-24	SPACER (1.60 LONG)	1
33			
32			
31	215-82-2	WASHER	1
30	10-1102-01	SUPER LUBE MULTI-PURPOSE	A/R
29	10-1101-01	SUPER LUBE WITH TEFLON	A/R
28	10-1100	TORQUE SEAL	A/R
27	10-238-2	RETAINING RING	1
26	216-500-1	RATCHET BODY ASSEMBLY	1
25	216-41	SPACER (3.60 LONG)	1
24	95-28-1	SPACER (1.38 LONG)	1
23	215-20	SPACER (3.09 LONG)	2
22	215-104	PIN, ROLLER	1
21	216-13-1	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-1	SECONDARY ARM	1
17	46-353-10	PAWL	1
16	215-32-1	CAM	1
15	215-86	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	5
13	85-10-2	WASHER, THRUST	1
12	45-92	RIVET, PIVOT PIN	2
11	215-47-1	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	96-103-3	END PLUG SNAP-ON, CDI	1
7	10-106-1	BALL (3/32)	2
6	47-248-10	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-249	SPRING, LOCK RING	1
4	△	LOCK RING	1
3	47-245-1	HEX, FLANGE NUT	2
2	47-241	INSERT TUBE	1
1	47-342-5	ADJUSTING SCREW (2.250 LONG)	1

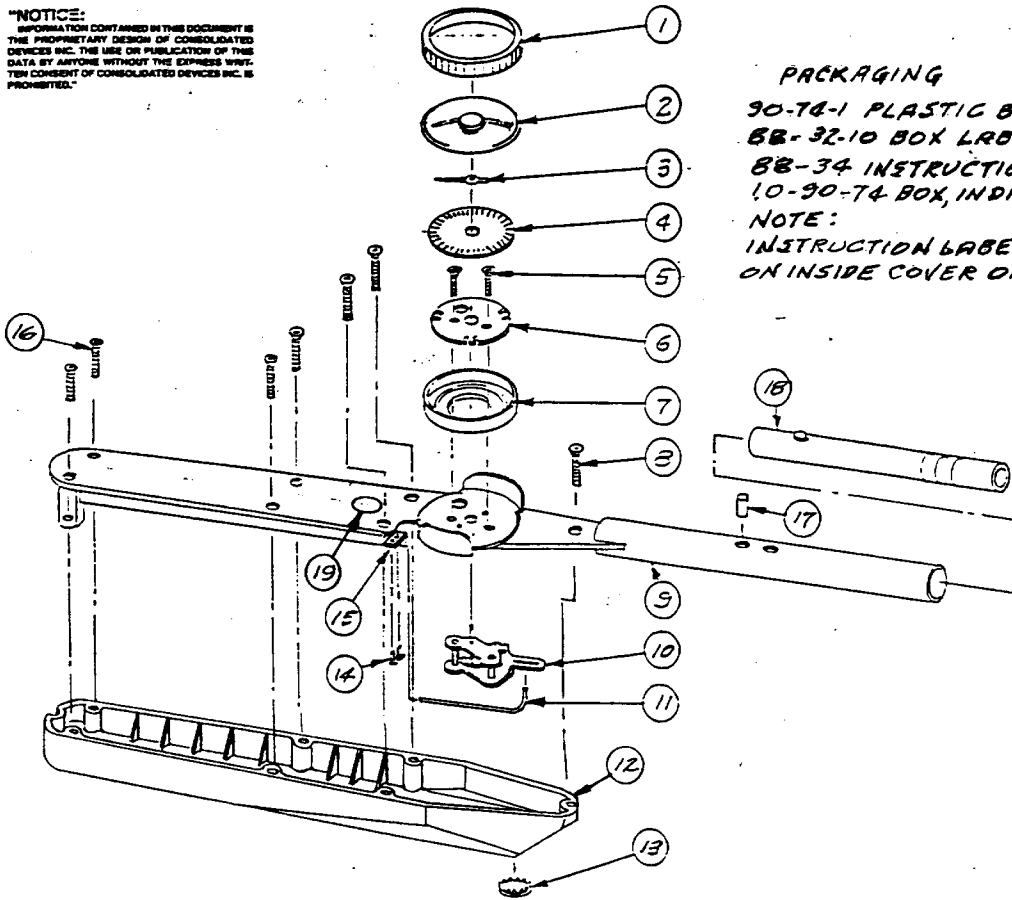
ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/32 .001 ±.01 ±1/2° .0005 .005			
MATERIAL			
FINISH			
DRAWN <i>slj</i> SCALE NONE DRAWING NO.			
APPROVED <i>Jay</i> DATE 10-10-91 216-232-TAB			

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/4 DR. RATCHET
600 FT.LB.

NOTE: UNCONTROLLED COPY

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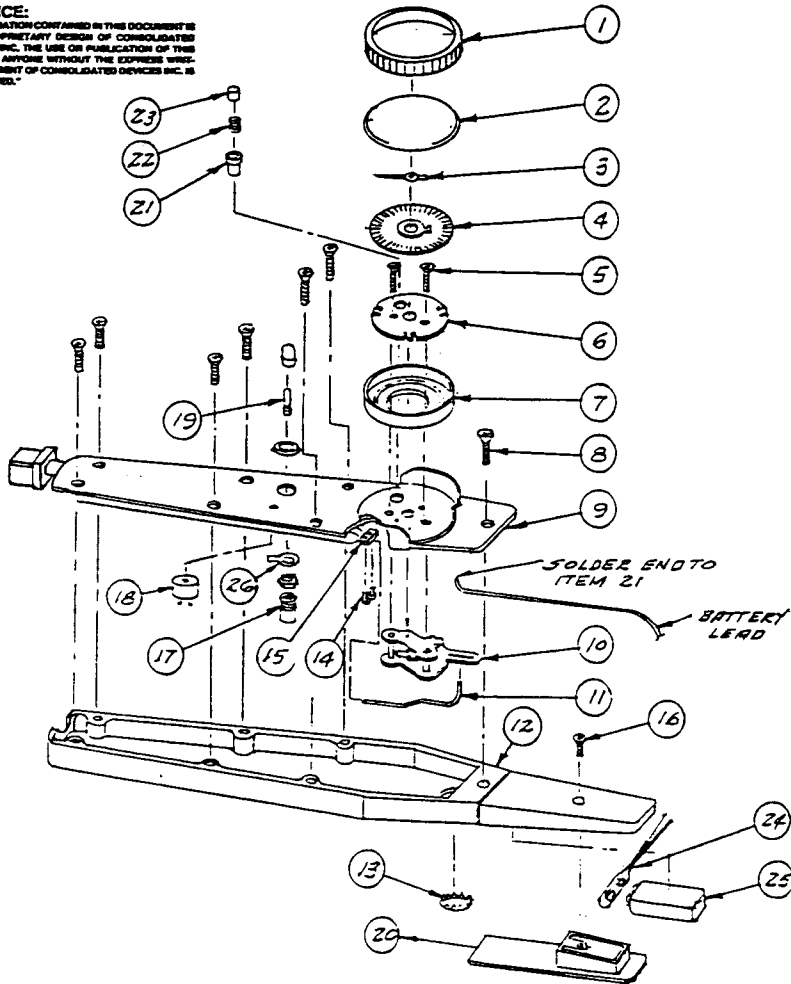
PACKAGING
 90-74-1 PLASTIC BOX.
 88-32-10 BOX LABEL.
 88-34 INSTRUCTION LABEL
 10-90-74 BOX, INDIVIDUAL
NOTE:
 INSTRUCTION LABEL TO BE
 ON INSIDE COVER OF BOX.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ADD 10-90-74 BOX TO PACKAGING.	3/22/41.	ZJS
ZJS	B	ITEM 3 WAS 10-165-1 ITEM 6 WAS 10-165-2	9-11-92	JW
ZJS	C	ITEM 5 WAS 10-109-3	3-3-94	JW

19	88-35	INSPECTION LABEL	1
18	90-16-1	HANDLE EXTENSION ASSY.	1
17	10-107-2	PIN, SPRING	1
16	10-235-1	SCREW, SELF TAPPING - PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	90-40-3	CASE, PLASTIC	1
11	80-11-2	PUSHROD	1
10	10-113	MOVEMENT	1
9	48-108-22	HANDLE, CHANNEL, BEAM & GUARD ASSY.	1
8	10-235-3	SCREW, SELF TAPPING - REAR	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-7	SCREW, MACHINE FLAT HEAD	2
4	98-200-16	SCALE	1
3	48-18-3	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION DIAL WRENCH (MEMORY) 1" DR.			
0-800KTS-0M 0-800NM SER 98			
DRAWN ZJS		SCALE —	DRAWING NO.
APPROVED [Signature]		DATE 7/23/90.	98-63-1

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1	48-139-52	0-700MkP 0-700d No.	H. WERNER TS34	FINISH
TAB NO	SCALE ASSY	RANGE	TOOL NO.	

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ITEM 3 WAS 48-18-1, ITEM 11 WAS 80-11-3	8-28-95	207
A.M.V.	B	BAGH 1 WAS 48-211-5	10-02-95	207

28	44-9	MOUNTING DEVICE	1
26	44-T	SOLDER TERMINAL	1
25	81-6	BATTERY	1
24	81-37	BATTERY PLUG	1
23	40-115	PLUNGER	1
22	10-105-2	SPRING	1
21	40-102	RETAINER, SPRING	1
20	41-5	BATTERY COVER	1
19	44-6	LAMP	1
18	81-28	BUZZER	1
17	44-5	LAMP HOLDER	1
16	10-109-20	FL.HD. MACH. SCREW	1
15	40-185	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	348-5	CASE	1
11	84-11-3	PUSHROD	1
10	10-113	MOVEMENT	1
9	48-108-53	PLATE & GUARD ASSY.	1
8	10-111-1	SCREW, SELF TAPPING - PLATE	7
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE ASSY.	1
3	48-18-2	POINTER	1
2	48-91	CRYSTAL	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .XX ± .01 = 1/2°
 .XXX = .005

MATERIAL

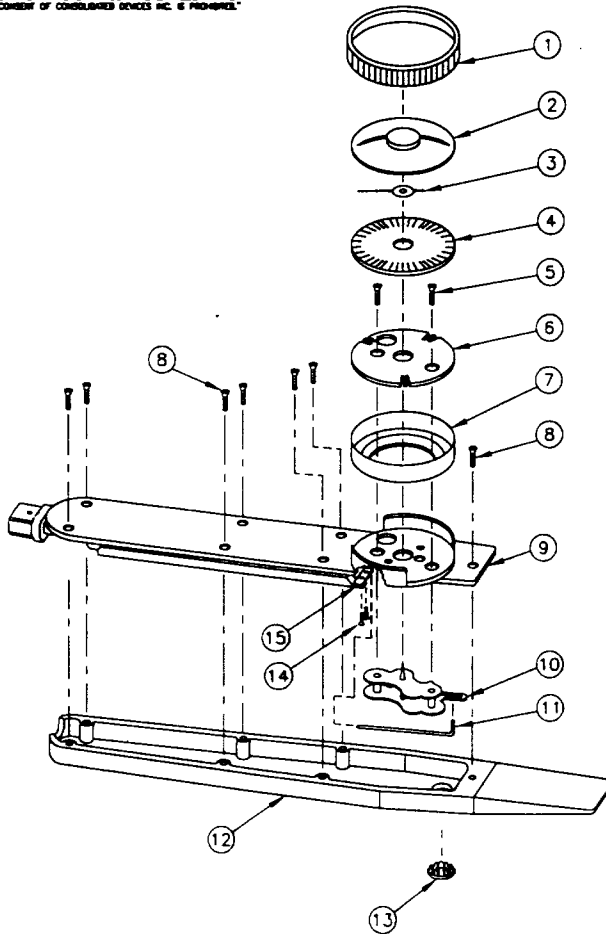
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL (ELECT, BEEPER)
 INTERCHANGEABLE DRIVE

DRAWN 235	SCALE	DRAWING NO.
APPROVED A.M.V.	DATE 11/23/95	348-62-TAB

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	ADD TAB NO. 2	10-22-98	Jay



16			
15	40-145	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINED ROUND HEAD	2
13	10-103-3	BUTTON PLUG	1
12	40-222-4	CASE	1
11	84-11-3	PUSH ROD	1
10	10-113	MOVEMENT	1
9	48-108-61	PLATE & GUARD ASSEMBLY	1
8	10-222-1	SCREW, SELF TAPPING - PLATE	7
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE	1
3	48-18-1	POINTER	1
2	48-132	MEMORY POINTER ASSEMBLY	1
1	48-84	BEZEL	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

6			
5			
4			
3			
2	48-201-6	0-600 IN.LB. 0-70 Nm	C.D.I. SOOLDINI
1	48-211-57	0-70 Nm	HOFFMANN
TAB NO.	▲ SCALE	RANGE	CUSTOMER

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGELS
 :1/32 :.01 :1/2°
 :.0002 :.005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH (MEMORY)
 INTERCHANGEABLE DRIVE

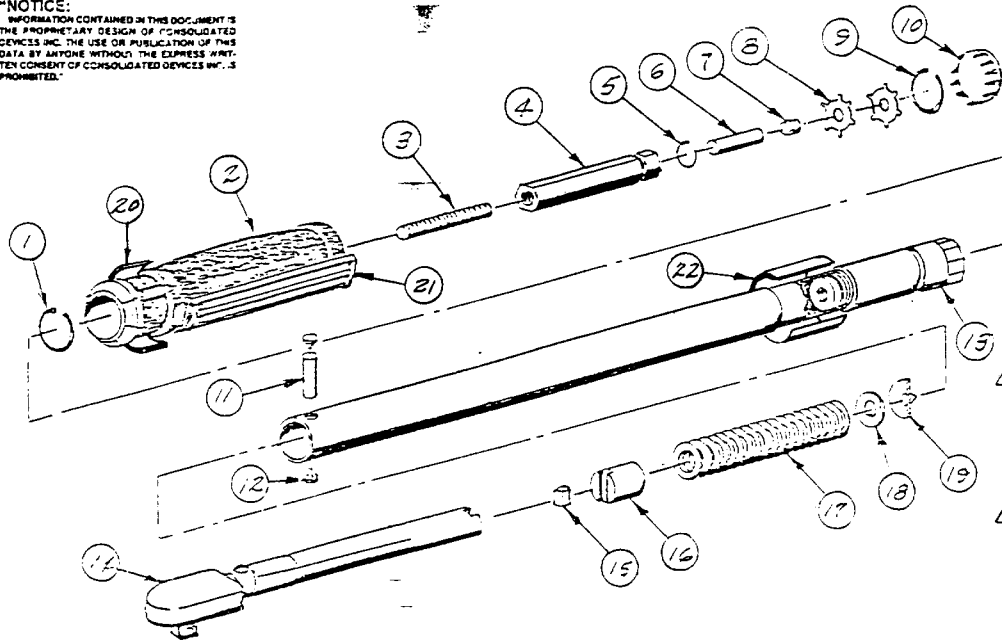
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	06-04-96	348-161-TAB

NOTES:

NOTE: UNCONTROLLED COPY

600LDINI

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 PROHIBITED."



- △ USE 95-93 SPRING FOR 750 IN. LB.
 USE 46-255 SPRING FOR 75 FT. LB.
- △ HANDLE GRIP TO BE FURNISHED IF REQUESTED.
- △ ITEM 2, FOR RED HANDLE, USE 46-1-2
- △ SEE 45 SERIES PARTS LIST TO DETERMINE A PART NO. FOR A PARTICULAR HANDLE LABEL. (ITEM 20). & TUBE LABEL (ITEM 22)
- △ ITEM NOS. 3 THRU 7 MAY BE FURNISHED AS ONE COMPLETE ASSY. HEX ASSY. (PART NO. 45-94-1 WITH ITEM 6 (PART NO. 45-6-1) FOR 750 IN. LB. & 75 FT. LB.
- △ FOR WRENCHES TO BE RECALIBRATED, SEE 46-253-TAB.

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	PART NO. WAS 46-131-3	2-26-87	[Signature]
ZJS	B	PART NO. WAS 46-181-1		

22	△	LABEL, TUBE	1
21	△	HANDLE, GRIP	1
20	△	LABEL, HANDLE	1
19	△	WASHER, THRUST	1
18	△	WASHER, FLAT	AR
17	△	SPRING, TORQUE	1
16	△	45-251 CAM	1
15	△	45-253-1 PAWL	1
12	△	ARM & DR. ASSY. (3/B)	1
13	△	46-2-1 TUBE ASSY.	1
12	△	45-92 RIVET, PIVOT PIN	2
11	△	45-91 PIN, PIVOT	L
10	△	10-103-3 BUTTON PLUG, HANDLE	1
9	△	45-137 CLIP, HEX. RETAINER	1
8	△	45-75 WASHER, HEX LOCK	2
7	△	10-101-19 SOC. SET SCREW, HEX. BAR	1
6	△	45-2 PIN, LOCK, HEX BAR	1
5	△	45-2 CLIP SPRING, HEX BAR	1
4	△	45-48 BAR HEX, INT. ADJ.	1
3	△	10-101-1 SOC. SET SCREW (HEX BAR)	1
2	△	46-1-1 HANDLE, PLASTIC	1
1	△	45-74 CLIP, HANDLE	1

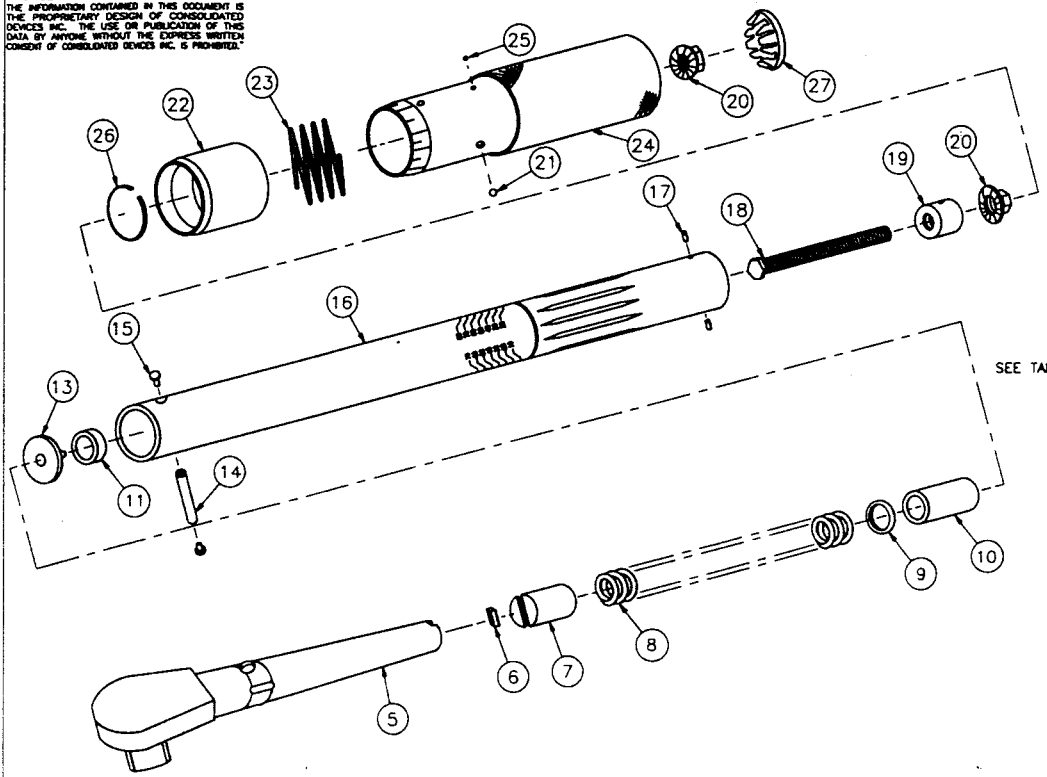
CODE IDENT	PART NO.	DESCRIPTION	QTY
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES		CONSOLIDATED DEVICES, INC. City of Industry, California	
		EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 3/8 DR. PLAIN	
SER 16			
DRAWN	Z.J.S.	SCALE	NONE
APPROVED	[Signature]	DATE	8-26-87
			DRAWING NO. 46-231-1 AA

② HISHOP GRAPHICS, INC. PRESS RECORDER NO. 420441

WITHOUT SECONDARY ARM 750Z M 752 MF

NOTE: UNCONTROLLED COPY

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	ADD ITEM 26, TAB NO -2 & REDRAWN	2-27-97	Jay

29			
28			
27	10-103-3	BUTTON PLUG	1
26	47-238-1	SPRING RING	1
25	10-106-1	BALL (3/32)	1
24	47-248-7	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	A	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	96-204-7	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12			
11	95-28-3	SPACER (.60 LONG)	1
10	95-28-2	SPACER (1.00 LONG)	1
9	10-104-1	WASHER, FLAT	A/R
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	45-160	ARM & DRIVE ASSEMBLY (3/8)	1
4			
3			
2			
1			
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
:1/32 .XX :.01 :1/2"

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. PLAIN
750 IN.LB.

DRAWN	SCALE	DRAWING NO.
Jay	NONE	46-242-TAB
APPROVED	DATE	
Jay	05-27-94	

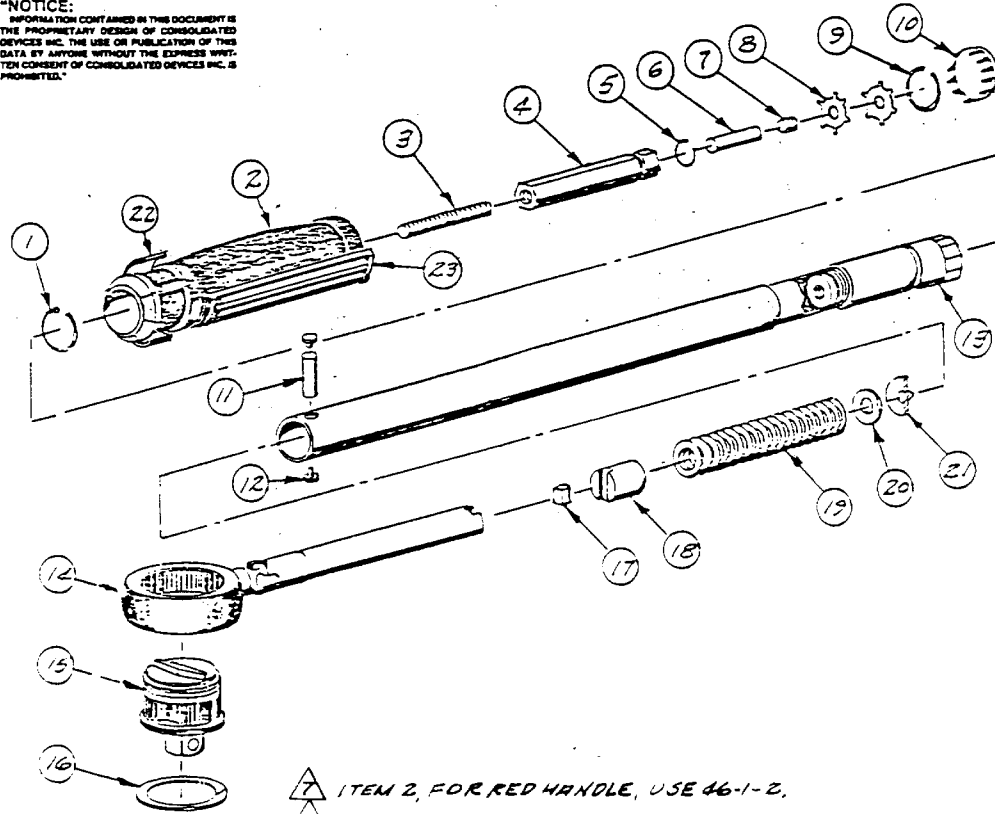
-6			
-5			
-4			
-3			
-2	47-258-1	V. BELKNAP	VB 7502MMH
-1	47-246-1	CDI	7502MMH
TAB NO.	ITEM NO.	CUSTOMER	MODEL NO.
	A		
	22		

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
NOTES:

NOTE: UNCONTROLLED COPY

7502 MMH COMMERCIAL

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- △ ITEM 2, FOR RED HANDLE, USE 46-1-2.
- △ USE 95-93 SPRING FOR 750 IN. LB.
 USE 46-255 SPRING FOR 75 FT. LB.

- △ HANDLE GRIP TO BE FURNISHED IF REQUESTED.
- △ TUBE ASSY. PART NO. 46-3-1 FOR 750 IN. LB. (ROLL STAMP),
 TUBE ASSY. PART NO. 46-3-3 FOR 75 FT. LB. (ROLL STAMP)
- △ SEE 45 SERIES PARTS LIST TO DETERMINE A PART NO. FOR A PARTICULAR HANDLE LABEL (ITEM 22)
- △ ITEM NOS. 3 THRU 7 MAY BE FURNISHED AS ONE COMPLETE ASSY. HEX. ASSY. (PART NO. 45-94) WITH ITEM # 6 (PART NO. 45-6-1) FOR 750 IN. LB. & 75 FT. LB.
- △ SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.

NOTE:

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ADD NOTE A	2-5-86	[Signature]
ZJS	B	ITEM 14 WAS 45-15B	2-27-87	[Signature]
ZJS	C	ITEM 14 WAS 45-15B-1, ADD TO -17, 45-253-1, REVISED NOTE 1, FOR RECALIBRATION. IN WAS 46-151-2		
A.M.V.	D	ADD GENERIC TO TITLE	2-2-89	[Signature]

23	45-277	HANDLE GRIP	1
22	A	LABEL, HANDLE	1
21	30-8	WASHER, THRUST	1
20	10-104-1	WASHER, FLAT	AZ
19	16	SPRING, TORQUE	1
18	45-251	CAM	1
17	45-253-1	PAWL	1
16	95-44	RETAINER RING, RATCHET	1
15	45-109	GUTS, RATCHET	1
14	45-15B	RATCHET BODY	1
13	△	TUBE ASSY. (ROLL STAMP)	1
12	45-92	RIVET, PIVOT PIN	2
11	45-91	PIN, PIVOT	1
10	10-103-3	BUTTON PLUG, HANDLE	1
9	45-137	CLIP, HEX RETAINER	1
8	45-75	WASHER, HEX LOCK	2
7	10-101-19	SOC. SET SCREW, HEX BAR	1
6	12	PIN, LOCK, HEX BAR	1
5	45-22	CLIP, SPRING, HEX. BAR	1
4	45-48	BAR, HEX. INT. ADJ.	1
3	10-101-1	SOC. SET SCREW, HEX BAR	1
2	46-1-1	HANDLE, PLASTIC	1
1	45-74	CLIP, HANDLE	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
------------	----------	-------------	------

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .005 .01 = 1/4
 XXX = .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/8 RATCH.

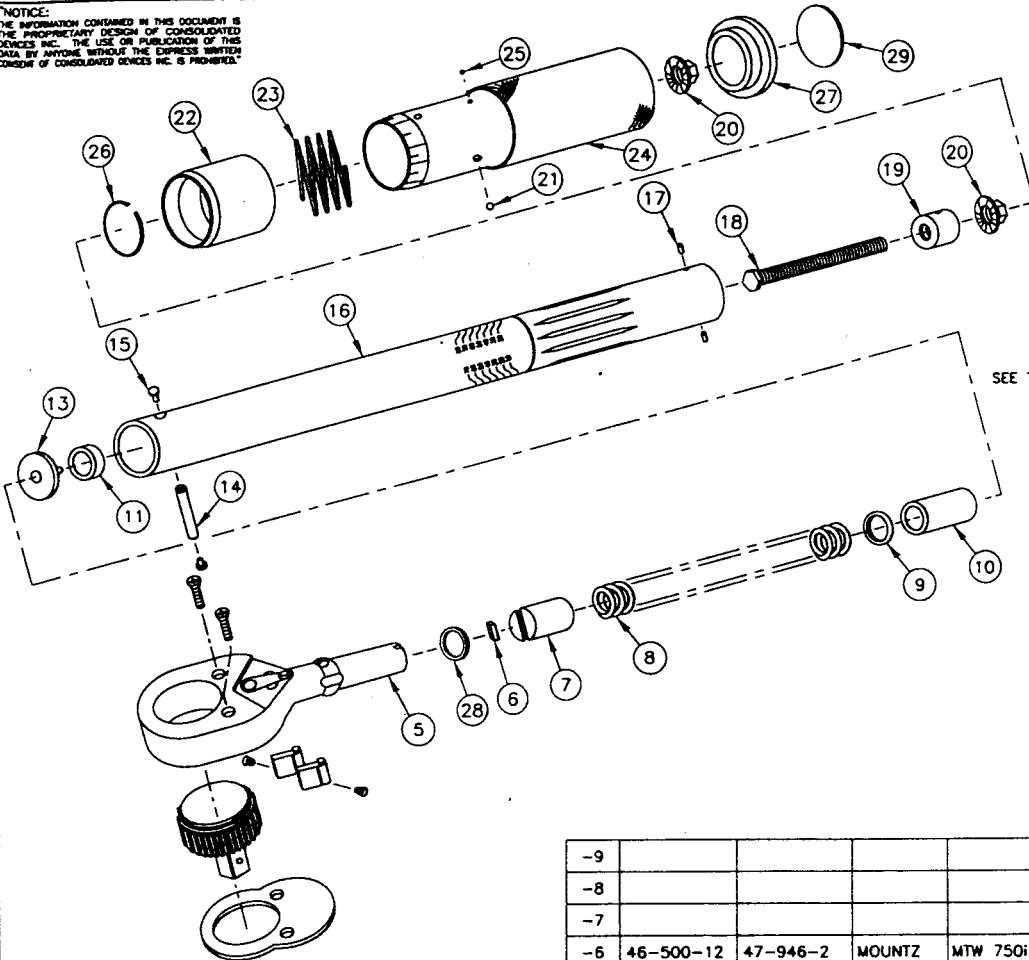
SER. 46 GENERIC

DRAWN ZJS	SCALE NONE	DRAWING NO.
APPROVED [Signature]	DATE 7.11.86	46-232-2

WITHOUT SECONDARY ARM 7502 MC ROLL STAMP TUBE
 752 MC

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	J	ADD TAB NO. -6, ITEM 27 WAS 10-103-3	4-25-98	Jay



30			
29	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
28	10-241-1	O-RING	1
27	96-103-3	END PLUG SNAP-ON, CDI	1
26	47-238-1	SPRING RING	1
25	10-106-1	BALL (3/32)	1
24	47-248-7	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	96-204-7	TUBE (ROLL STAMP)	1
15	45-92	RVLET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12			
11	95-28-3	SPACER (.60 LONG)	1
10	95-28-2	SPACER (1.00 LONG)	1
9	10-104-1	WASHER, FLAT	A/R
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	△	RATCHET BODY ASSEMBLY	1
4			1
3			1
2			
1			

SEE TAB

-9				
-8				
-7				
-6	46-500-12	47-946-2	MOUNTZ	MTW 750i
-5	46-500-12	47-275-2	GRAY TOOL	MR 750HD
-4	46-500-12	47-258-2	VAN BELKNAP	VB 7502MRMH
-3		SEE SEPARATE DWG.		7503MRMH
△ -2	46-500-12	47-246-2	CDI	7502MRMH-QR
△ -1	46-500-120	47-246-2	CDI/McMASTER	7502MRMH-CDI
TAB NO.	△ ITEM NO. 5	△ ITEM NO. 22	CUSTOMER	MODEL NO.

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/32 .001 .01 1/2° .0005 .0005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 3/8 DR. RATCHET 750 IN.LB.			
DRAWN <i>slj</i>		SCALE NONE	DRAWING NO.
APPROVED <i>Jay</i>		DATE 12-30-91	46-234-TAB

△ USE ITEM 29 FOR CDI ONLY.

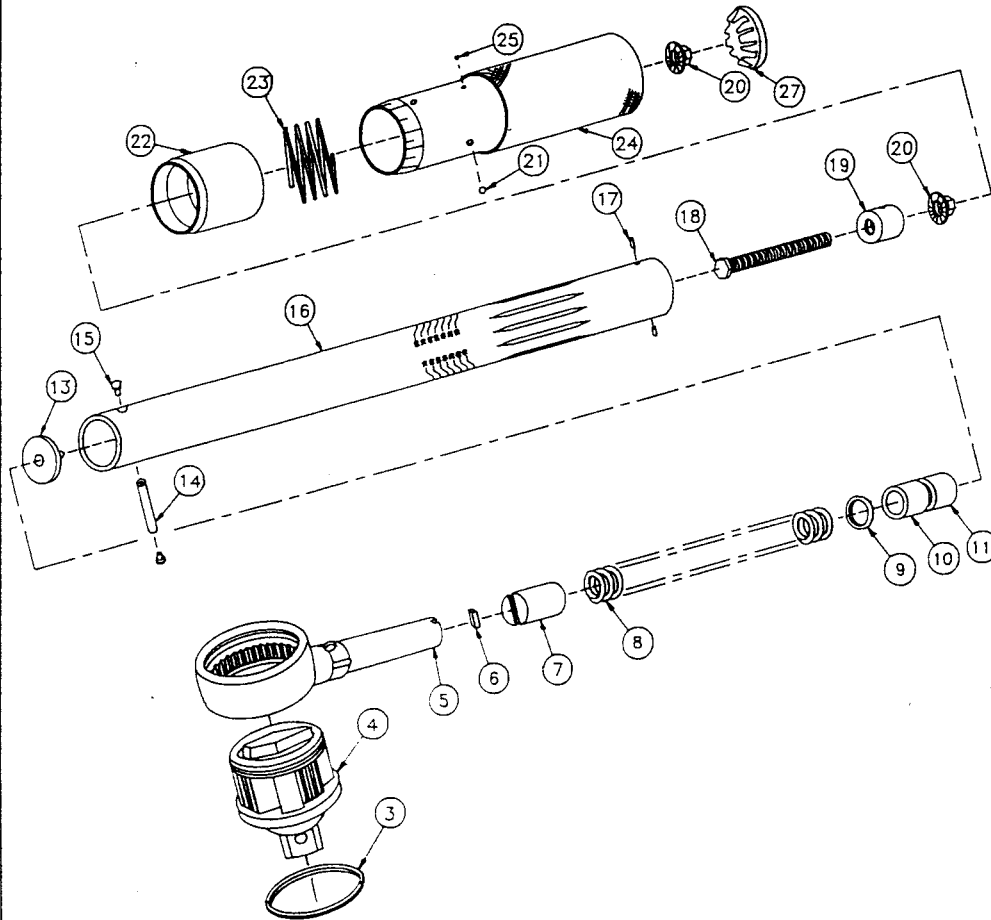
1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
NOTES:

NOTE: UNCONTROLLED COPY

7502 MRMH - CDI
7502 MRMH - QR

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ITEM 5 WAS 45-158	3-7-96	20



1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

27	10-103-3	BUTTON PLUG	1
25	10-106-1	BALL (3/32)	1
24	47-248-7	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	47-246-26	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW	1
17	47-240	PIN	2
16	96-204-7	TUBE (ROLLSTAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
11	95-28-3	SPACER	1
10	95-28-2	SPACER	1
9	10-104-1	WASHER, FLAT	A/R
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	45-158-1	RATCHET BODY	1
4	95-54	GUTS, RATCHET	1
3	95-44	RETAINING RING, RATCHET	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .005 ±.01 ±1/2°
 .0005 .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. RATCHET

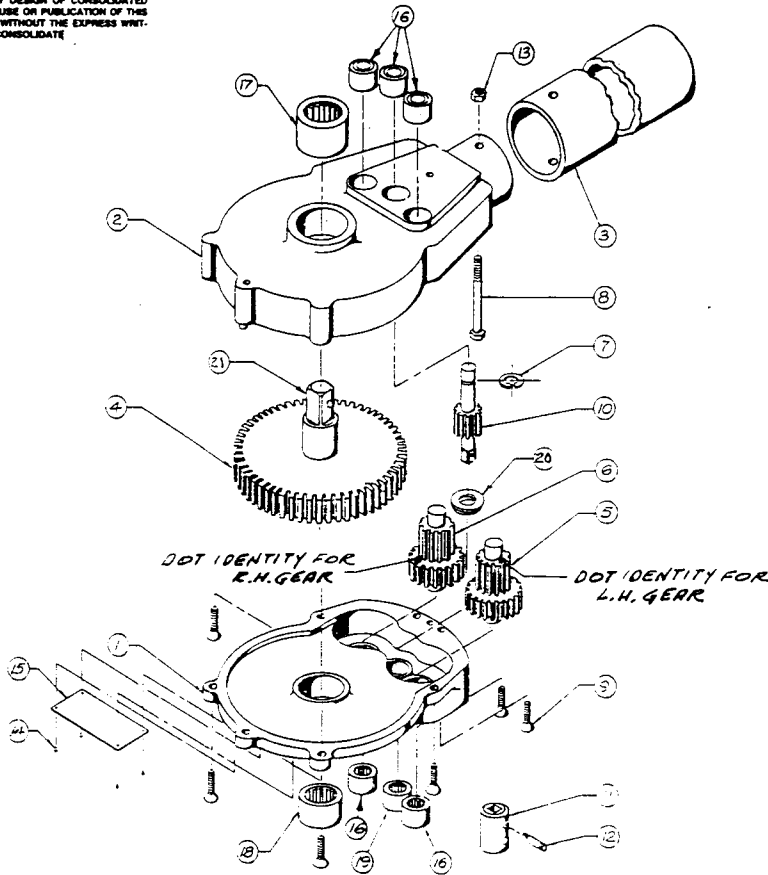
FINISH

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	20	DATE	2-28-96	46-234-3

7503 MRMH

NOTE: UNCONTROLLED COPY

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4. ITEMS 4, 5, 6, 7, 20 & 21 ARE FURNISHED AS A GEAR SET (360-62)
 3. DOTS ON GEARS, IDENTIFY R.H. & L.H. GEARS.
 2. ITEMS 4 & 21 MAY BE FURNISHED AS COMPLETE ASSY. (PART NO. 360-B)
 1. SEE 360 SERIES PARTS LIST TO DETERMINE PART NO. FOR A PARTICULAR NAME PLATE (ITEM NO. 15)

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	C	REDRAWN, NO CHANGE, NRS 'C' SIZE	2-6-87.	ZJS
ZJS	D	ADD NOTE 4	5/10/88.	ZJS

4	21	360-7	SHAFT (3/4 SQ. DRIVE)	1
	20	360-22	SPACER	1
	19	10-133-15	NEEDLE BEARING	1
	18	10-133-16	NEEDLE BEARING	1
	17	10-133-17	NEEDLE BEARING	1
	16	10-133-14	NEEDLE BEARING	5
	15	△	NAMEPLATE	1
	14	10-142	DRIVE SCREW	4
	13	10-138-2	HEX. NUT	1
	12	10-107-4	PIN, SPRING	1
	11	360-15	SOCKET ADAPTER	1
4	10	360-13	GEAR & 3/8 SQ. DRIVE	1
	9	10-128-4	MACH. SCREW, FLAT HD. SOCKET	6
	8	10-125-B	MACH. SCREW, HEX. HEAD	1
4	7	360-16	SNAP RING	1
4	6	360-11	GEAR (12 & 21 TEETH) R.H.	1
4	5	360-10	GEAR (12 & 21 TEETH) L.H.	1
4	4	360-6	GEAR, (60 TEETH)	1
	3	360-14	TUBE, REACTION	1
	2	360-2	HOUSING, OUTPUT	1
	1	360-4	HOUSING, INPUT	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 ± .01 ± 1/2°
 XXX ± .005

CONSOLIDATED DEVICES, INC.

City of Industry, California

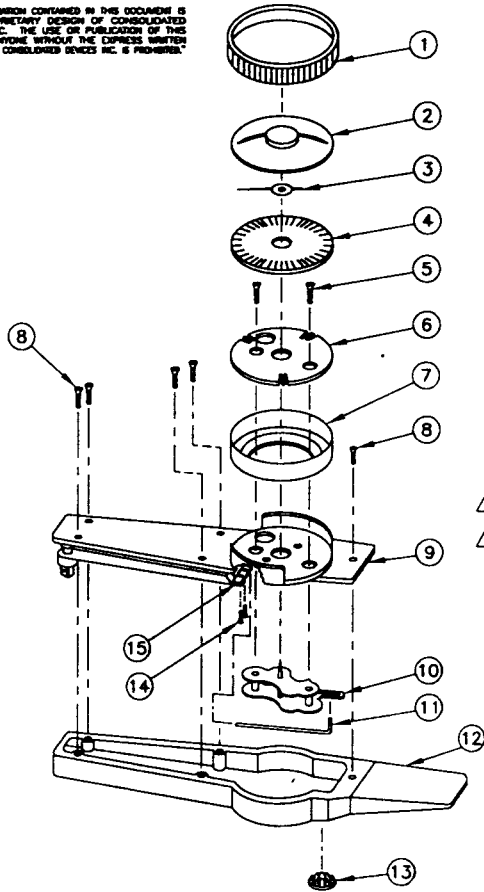
EXPLODED ILLUSTRATION
 TORQUE MULTIPLIER

750 FT. LB.

MATERIAL	FINISH	DRAWN ZJS	SCALE	DRAWING NO.
		APPROVED [Signature]	DATE 2-6-87.	360-29

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	V	ADD TAB NO. 19	8-5-90	Jay



25					
24					
23					
22					
21					
20					
19	SEE SEPARATE DRAWING			KTC CMD0091	
18	48-208-3	238-206-13	0-10 Nrm 0-90 IN.LB.	PROTO P#2 5169NMA	
17	48-208-3	238-17-13	0-75 IN.LB. 0-90 CMKG	PROTO P#1 5169A	
16	48-208-3	238-201-24	0-75 IN.LB. 0-9 Nrm	MAC TWD M75N	
15	48-208-3	238-201-26	0-75 IN.LB. 0-9 Nrm	ARMSTRONG 64-302	
14	48-208-3	238-201-67	0-9 Nrm	CDI 9NLDN	
13	48-408-3	238-201-70	0-9 Nrm 0-75 IN.LB.	EUR/PALMERA Cod. 200.503	
12	48-208-3	238-201-49	0-75 IN.LB. 0-900 Ncm	USAG 823/9	
11	48-208-3	238-201-53	0-75 IN.LB. 0-9 Nrm	WRIGHT TOOL 2471	
10	48-208-3	238-201-68	0-9 Nrm 0-75 IN.LB.	EUR/ACESA N# 3710.002	
9	48-208-3	238-201-62	0-75 IN.LB. 0-9 Nrm	V. BELKNAP VB 751LDIN	
8	48-208-3	238-214-65	0-90 CMKG 0-75 IN.LB.	CDI 751KLDIN	
7	48-208-3	238-214-42	0-90 CMKG 0-75 IN.LB.	CARLSON 751KLDIN	
6	48-208-3	238-201-8	0-75 IN.LB. 0-9 Nrm	WILLIAMS MTD-2-75	
5	48-208-3	238-210-9	0-90 dNrm 0-90 cmkgp	H. WERNER 7111 A	
4	48-208-3	238-201-29	0-75 IN.LB. 0-9 Nrm	FACOM S 250 A	
3	48-208-33	238-201-10	0-75 IN.LB. 0-9 Nrm	751LDIN	
2	SEE SEPARATE DRAWING			KTC CMD0091	
1	48-208-3	238-201-10	0-75 IN.LB. 0-9 Nrm	C.D.I. 751LDIN	
TAB NO.	$\triangle B$	$\triangle A$	SCALE	RANGE	CUSTOMER

ITEM	PART NO.	DESCRIPTION	REQ'D
16			
15	40-145	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINED ROUND HEAD	2
13	10-103-2	BUTTON PLUG	1
12	230-240-4	CASE	1
11	80-11-3	PUSH ROD	1
10	10-113	MOVEMENT	1
9	$\triangle A$	DRIVE, PLATE & GUARD ASSEMBLY	1
8	10-222-6	SCREW, SELF TAPPING - REAR	5
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	$\triangle A$	SCALE	1
3	48-18-1	POINTER	1
2	48-132	MEMORY POINTER ASSEMBLY	1
1	48-84	BEZEL	1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
1/32 .001 .01
XXX.003 1/2"

MATERIAL

FINISH

CONSOIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
DIAL WRENCH 1/4 DR. (MEMORY) TORSION
0-75 IN.LB. 0-9 Nrm

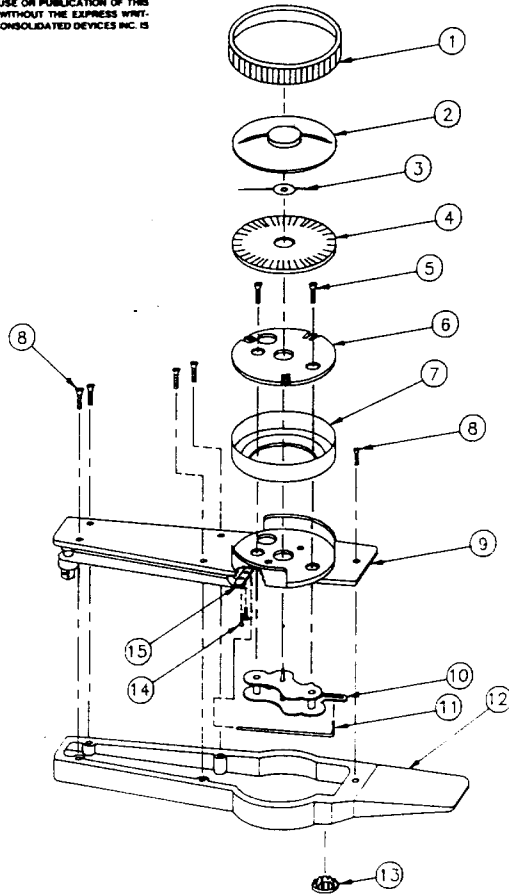
DRAWN *Jay* SCALE NONE DRAWING NO.
APPROVED *Jay* DATE 02-01-90 **238-161-TAB**

NOTES:

NOTE: UNCONTROLLED COPY

751LDIN (TORSION)

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△ FOR GSA ITEM 9, USE 48-208-34.
 NOTES:

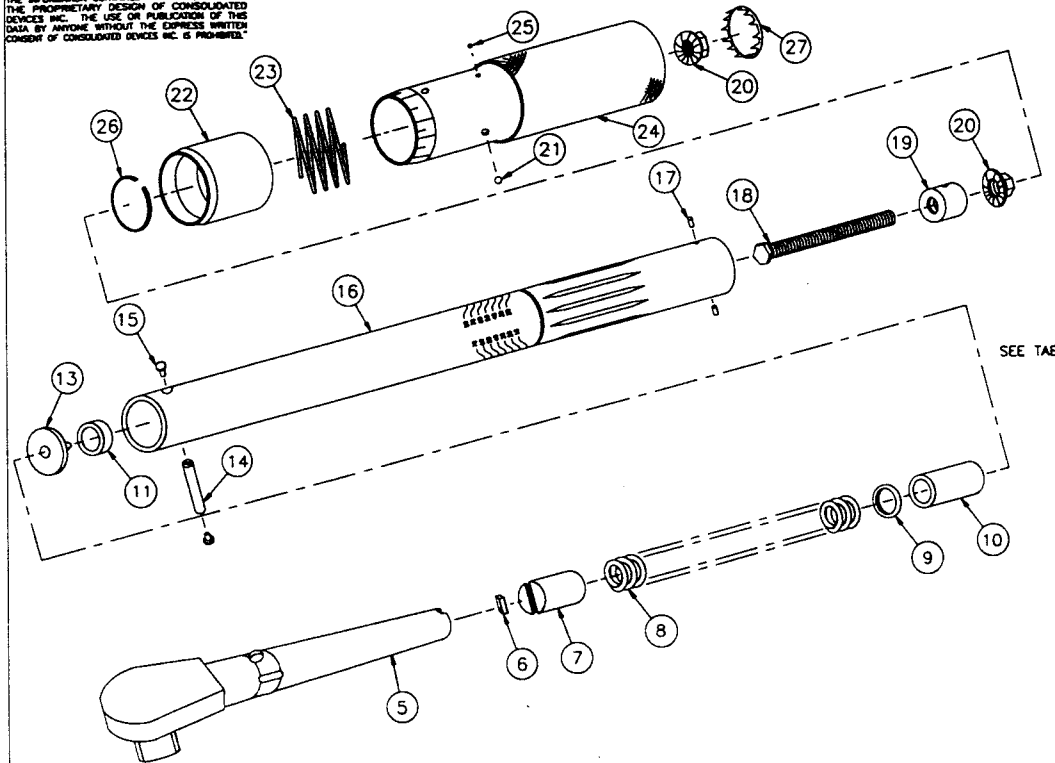
4	238-20-62	0-75 IN.LB. 0-9 Nm	Y. BELKMAP YB 752 LDIN
3			
2	238-214-60	90 CMKG 75 IN.LB.	OLY 900B4
1	238-20	0-75 IN.LB. 0-9 Nm	C.D.I. 752 LDIN
TAB NO.	△ SCALE	RANGE	CUSTOMER

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SLP	D	ADD TAB NO. 2	10-31-74	Joy
A.M.V.	E	ADD TAB NO. 3	9-28-75	Joy
A.M.V.	F	ADD TAB NO. 4	5-24-96	Joy
A.M.V.	G	DELETE TAB NO. 3 (FOR WRIGHT TOOL)	8-16-96	Joy

15	40-145	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACH. ROUND HEAD	2
13	10-103-2	BUTTON PLUG	1
12	230-240-5	CASE	1
11	80-11-3	PUSH ROD	1
10	10-113	MOVEMENT	1
△ 9	48-208-4	BEAM, PLATE & GUARD ASSEMBLY	1
8	10-222-6	SCREW, SELF TAPPING - REAR	5
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACH. FLAT HEAD	2
4	△	SCALE	1
3	48-18-1	POINTER	1
2	48-132	MEMORY POINTER ASSEMBLY	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .001 XX = .01 = 1/2° XXX = .005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION DIAL WRENCH (MEMORY) 3/8 DRIVE 0-75 IN.LB. 0-9 Nm			
MATERIAL			
FINISH			
DRAWN	SCALE NONE	DRAWING NO.	
APPROVED	DATE 2-7-90	238-163-TAB	

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BY	LTR	DESCRIPTION	DATE	APPROVED
B.M.F.	E	ITEM 8 WAS 46-255	1-23-98	<i>[Signature]</i>

29			
28			
27	10-103-3	BUTTON PLUG	1
26	47-238-1	SPRING RING	1
25	10-106-1	BALL (3/32)	1
24	47-248-6	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	96-204-6	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12			
11	95-28-3	SPACER (.60 LONG)	1
10	95-28-2	SPACER (1.00 LONG)	1
9	10-104-1	WASHER, FLAT	A/R
8	46-255-1	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	45-160	ARM & DRIVE ASSEMBLY (3/8)	1
4			
3			
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGELS
:1/32 .XX : 01 :1/2°
:XXX.X .005

MATERIAL

FINISH

CONOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. PLAIN
75 FT.LB.

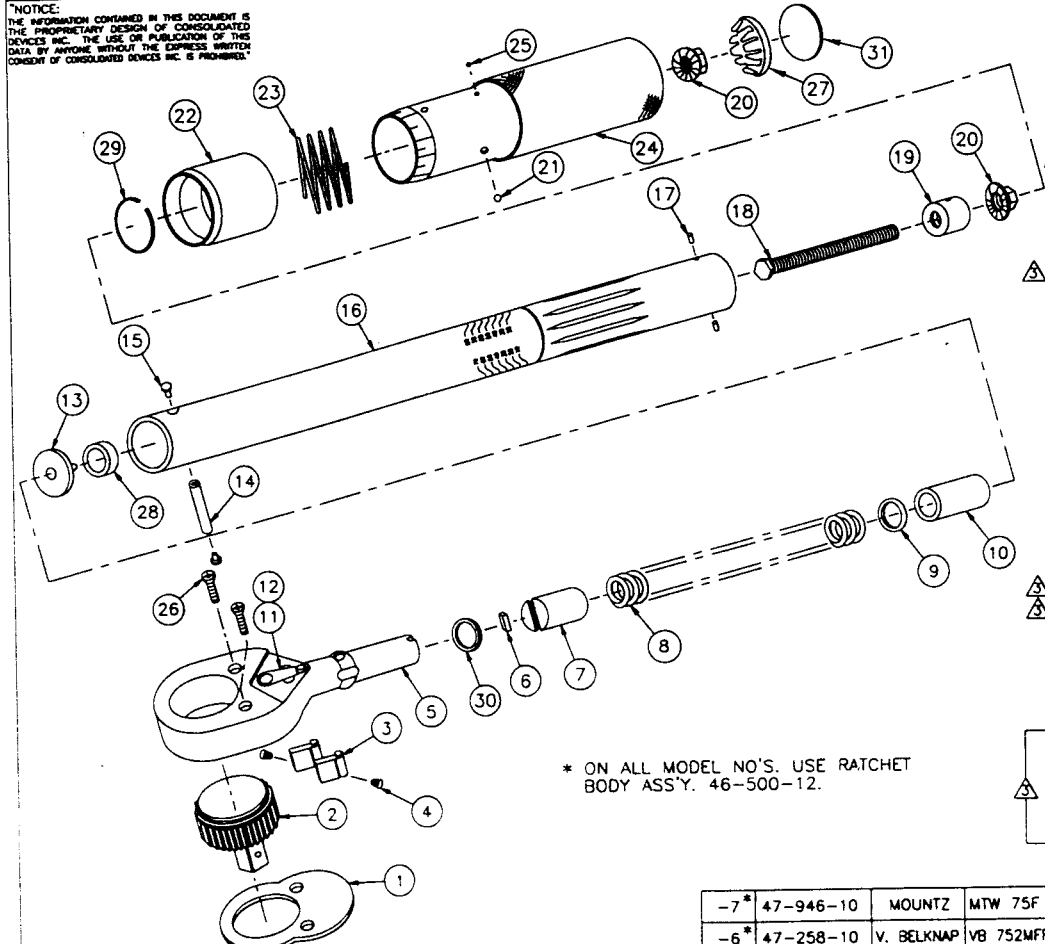
DRAWN	SCALE	NONE	DRAWING NO.
APPROVED	DATE	06-17-93	46-238-TAB

-6			
-5			
-4			
-3			
-2	47-258-9	V. BELKNAP	VB 752MFMH
-1	47-246-9	CDI	752MFMH
TAB NO.	△	ITEM NO. 22	CUSTOMER MODEL NO.

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
NOTES:

NOTE: UNCONTROLLED COPY

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* ON ALL MODEL NO'S. USE RATCHET BODY ASSY. 46-500-12.

- △ USE ITEM 31 FOR CDI ONLY.
 - △ ITEMS 3 NOTED REPLACE WITH P/N 46-500-12, USED FOR -3, -4, -5, -6, -7.
 - △ FOR COMPLETE ASSY. OF ITEMS 2 NOTED, SEE 46-400-1. 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
- NOTES:

-7*	47-946-10	MOUNTZ	MTW 75F
-6*	47-258-10	V. BELKNAP	VB 752MFRMH
△ -5*	47-246-10	CDI	752MFRMH-OR
-4*	47-259-10	WRIGHT TOOL	3447
-3*	47-266-1	T & E	7294
-2	47-250-2	CAT	9U5019
△ -1	47-246-10	CDI	752MFRMH
TAB NO.	△ ITEM NO. 22	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
B.M.F.	H	ITEM 8 WAS 46-255	1-23-94	207

△ 31	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
30	10-241-1	O-RING	1
29	47-238-1	SPRING RING	1
28	95-28-3	SPACER	1
27	10-103-3	BUTTON PLUG	1
△ 26	46-69-7	SCREW	2
25	10-106-1	BALL (3/32)	1
24	47-248-6	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	2
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW	1
17	47-240	PIN	2
16	96-204-6	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
△ 12	46-69-8	REVERSING LEVER	1
△ 11	46-69-5	REVERSING CAM	1
△ 10	95-28-1	SPACER	1
9	10-104-1	WASHER, FLAT	1
8	46-255-1	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
△ 5	46-400-5	RATCHET BODY	1
△ 4	46-69-3	SPRING	2
△ 3	46-69-4	DOG (R.H. & L.H.)	2
△ 2	46-69-6	RATCHET WHEEL	1
△ 1	46-69-2	PLATE	1

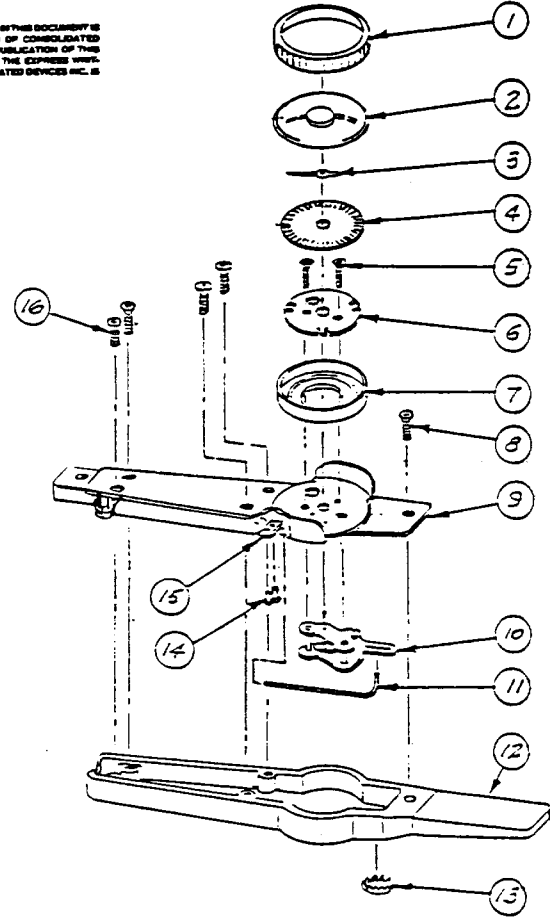
ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 3/8 DR. RATCHET 75 FT.LB.			
DRAWN	sel	SCALE	NONE
APPROVED	Jay	DATE	01-06-94
			DRAWING NO. 46-334-TAB

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGELS
±1/32 .001 ±.01 ±1/2°
XXXL 005

MATERIAL

FINISH

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	REDESIGN ITEM 9	11-4-91	JAY
ZJS	B	ITEM 8 WAS 10-111-8 ITEM 16 WAS 10-111-5	9/11/92	JAY
A.M.V.	C	ADD TAB 2	10/30/95	JAY

16	10-222-2	SCREW SELF TAPPING - PLATE	4
15	40-145	CLAMP PUSH ROD	1
14	10-110-1	SCREW MACH. ROUND HEAD	2
13	10-103-2	BUTTON PLUG	1
12	230-240-3	CASE	1
11	80-11-3	PUSH ROD	1
10	10-113	MOVEMENT	1
9	43-108-51	BEAM, PLATE & GUARD ASSY.	1
8	10-222-6	SCREW SELF TAPPING - BEAR.	1
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW MACHINE FLAT HEAD	2
4	A	SCALE	1
3	48-18-1	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .01 = 1/2°
 .XXX = .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

**EXPLODED ILLUSTRATION
 DIAL WRENCH (MEMORY)
 INTERCHANGEABLE DRIVE**

DRAWN: ZJS SCALE: --- DRAWING NO.: 374-61-TAB
 APPROVED: [Signature] DATE: 11/23/85

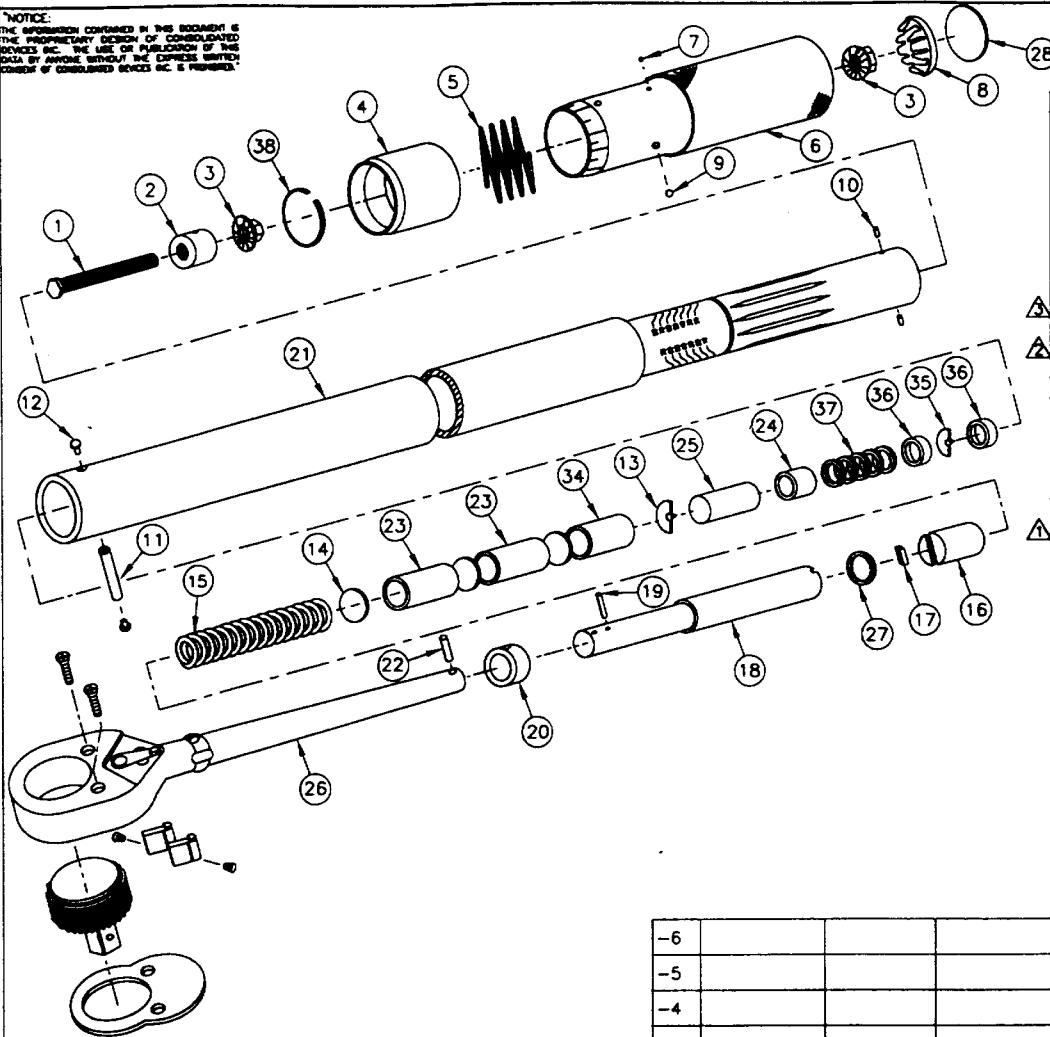
2	238-203-57	0-100 dNm 0-100 ERKP	GSI-HOFFMANN 100BNLDI
1	238-210-9	0-90 dNm 0-90 dNm	HERMANN WALKNER 7531
TAB NO.	A	SCALE	RANGE
			CUST

25 SENOR GRAPHICS/ACCOMPRESS
 REORDER NO. A2041

NOTE: UNCONTROLLED COPY

75 LD/MI

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- ⚠ USE ITEM 28 FOR CDI ONLY.
 ⚠ FOR COMPLETE RATCHET ASSEMBLY SEE 216-500-1.
 ⚠ SEE 46-353-TAB FOR WRENCHES TO BE RECALIBRATED.
NOTES:

-6			
-5			
-4			
-3			
-2	SEE SEPARATE DRAWING (USAG)		
-1	47-646-20	CDI	8004NMRMH
TAB NO.	ITEM NO. 4	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	C	REV 17 WKS 6-25-1, REV 26 WKS 715-232, REV 77 WKS 715-225, REV 28 WKS 715-227, 716-580-1 WKS [715-29 ON NOTE 2, CHG REVS 29 THRU 31, ADD NOTE 3]	1-27-98	Jay

38	47-238-1	SPRING RING	1
37	10-104-1	WASHER, FLAT	7
36	95-28-4	SPACER (.35 LONG)	2
35	30-8	WASHER, THRUST	1
34	216-24	SPACER (1.60 LONG)	1
33			
32			
31			
30			
29			
28	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
27	10-241-4	O-RING	1
26	216-500-1	RATCHET BODY ASSEMBLY	1
25	216-41	SPACER (3.60 LONG)	1
24	95-28-1	SPACER (1.38 LONG)	1
23	215-20	SPACER (3.09 LONG)	2
22	10-102-4	PIN, ROLLER	1
21	216-13-6	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-3	SECONDARY ARM	1
17	46-353-10	PAWL	1
16	215-32	CAM	1
15	215-21	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	3
13	85-10-2	WASHER, THRUST	1
12	45-92	RVET, PIVOT PIN	2
11	215-47-1	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	10-103-3	BUTTON PLUG	1
7	10-106-1	BALL (3/32)	1
6	47-348-10	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-249	SPRING, LOCK RING	1
4	⚠	LOCK RING	1
3	47-245-1	HEX, FLANGE NUT	2
2	47-241	INSERT TUBE	1
1	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

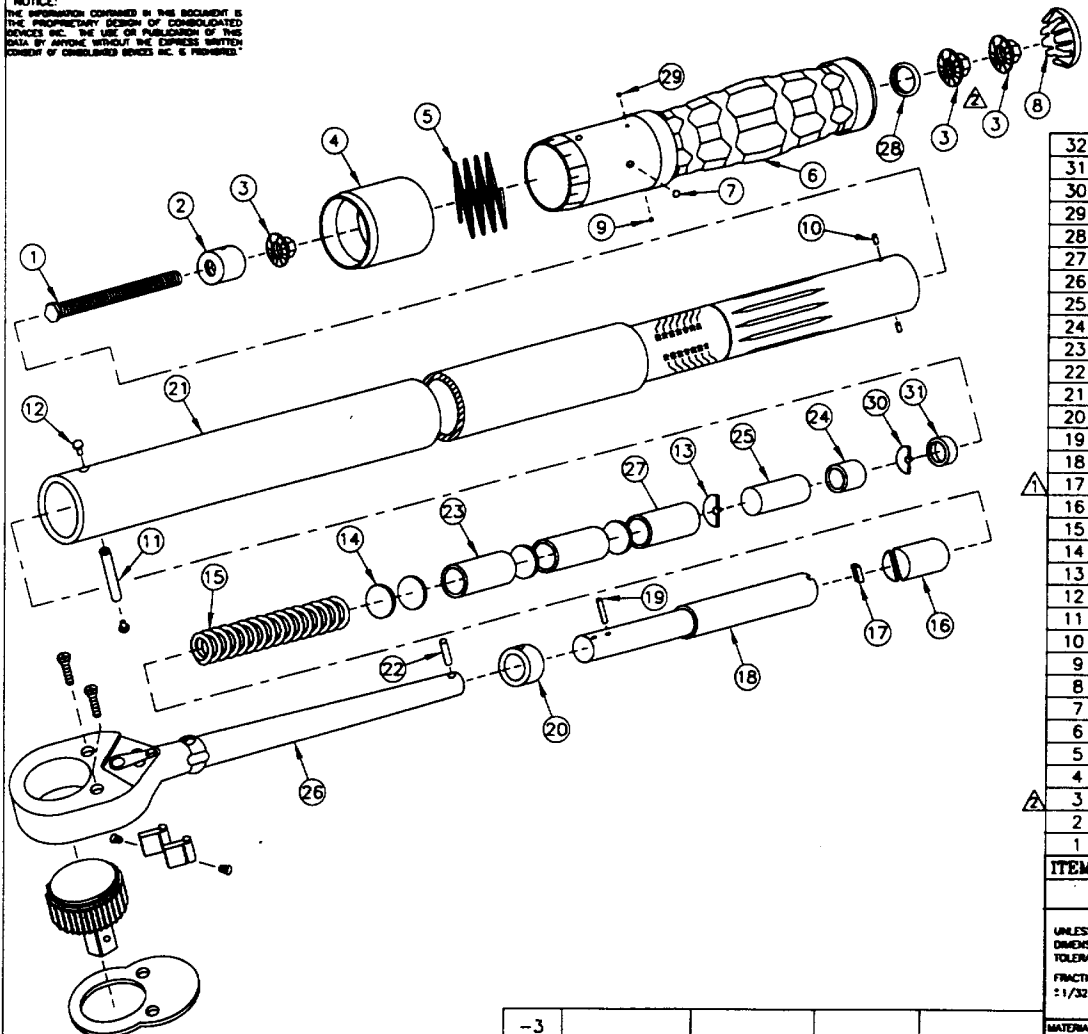
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/4 DR. RATCHET
 800 Nm & 572 FT.LB.

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	10-09-95	216-632-TAB

8004NMRMH

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3. TIGHTEN ITEM 3 TO 75 IN.LB. TORQUE.
 ⚠ ITEM 3 ASSEMBLY AS SHOWN.
 ⚠ FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
 NOTES:

-3					
-2	47-680-20	216-13-6	OLY	800QLN	
-1	47-276-20	216-13-6	EUR/ACESA	NR 3700.020	
TAB NO.	ITEM NO. 4	ITEM NO. 21	CUSTOMER	MODEL NO.	

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	F	ITEM 3 WAS REQ'D. 2, ADD NOTES 2 & 3	2-14-96	Joy

32			
31	95-28-3	SPACER (.60 LONG)	1
30	30-8	WASHER, THRUST	1
29	10-106-2	BALL (.1094 DIA.)	1
28	10-304	WASHER	1
27	216-24	SPACER (1.60 LONG)	1
26	216-500-1	RATCHET BODY ASSEMBLY	1
25	216-41	SPACER (3.60 LONG)	1
24	95-28-1	SPACER (1.38 LONG)	1
23	215-20	SPACER (3.09 LONG)	2
22	10-102-4	PIN, ROLLER	1
21	⚠	TUBE (ROLL STAMPED)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-3	SECONDARY ARM	1
17	45-253-3	PAWL	1
16	215-32	CAM	1
15	215-21	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	3
13	85-10-2	WASHER, THRUST	1
12	45-92	RIVET, PIVOT PIN	2
11	215-47-1	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	10-103-3	BUTTON PLUG	1
7	10-106-5	BALL (5/32)	1
6	47-344-16	HANDLE ASSEMBLY (ROLL STAMPED)	1
5	47-349	SPRING, LOCK RING	1
4	⚠	LOCK RING	1
3	47-245-1	HEX, FLANGE NUT	3
2	47-241	INSERT TUBE	1
1	47-342-3	ADJUSTING SCREW (2.50 LONG)	1

ITEM PART NO. DESCRIPTION REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .001 ±1/2°
 .0001 .0005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

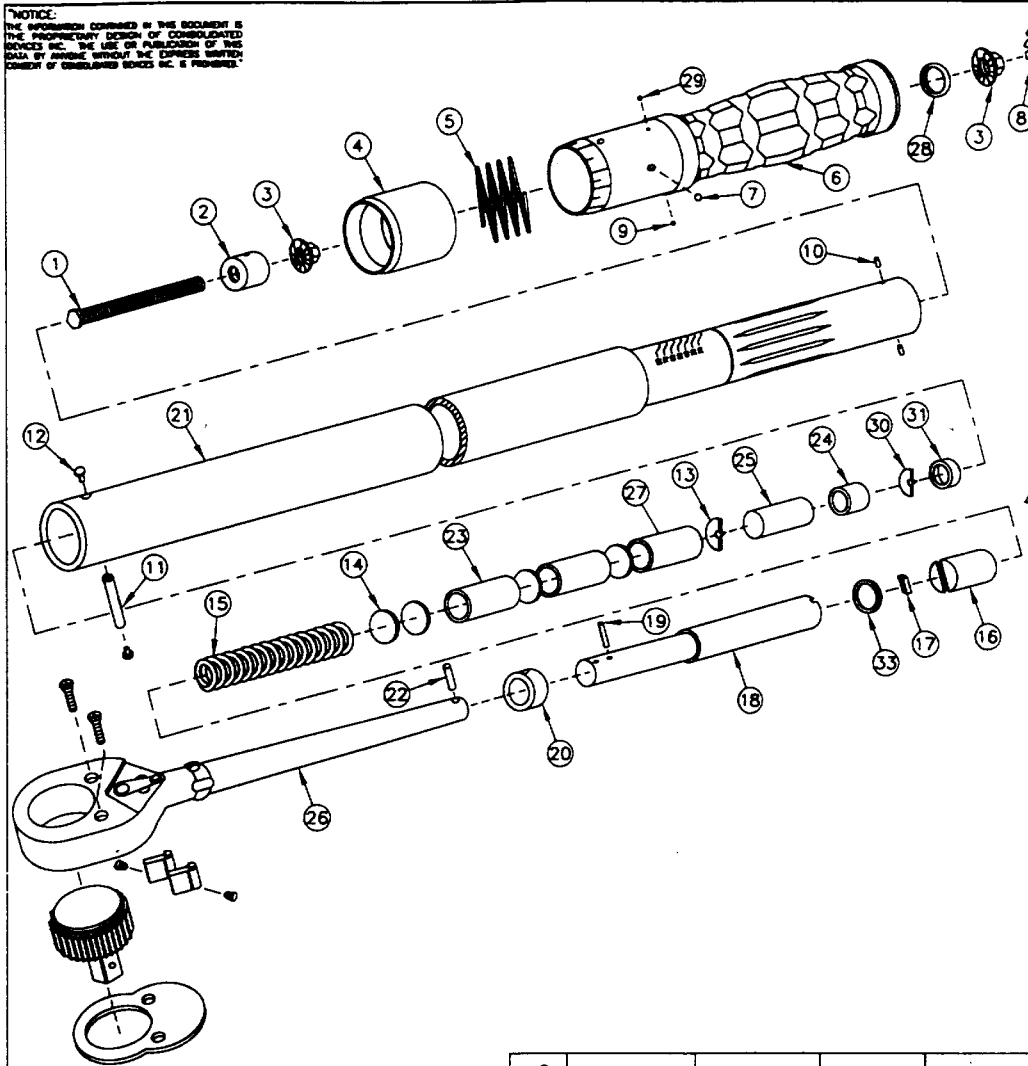
EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/4 DR. RATCHET
 800 Nm & 572 FT.LB. - PLASTIC HANDLE

DRAWN A.M.V. SCALE NONE DRAWING NO.
 APPROVED Joy DATE 07-29-96 216-734-TAB

NOTE: UNCONTROLLED COPY

REF. CDI 8004NMRPH

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	ITEM 16 WAS 215-32	10-16-98	Jay

33	10-241-4	O-RING	1
32	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
31	95-28-3	SPACER (.60 LONG)	1
30	30-8	WASHER, THRUST	1
29	10-106-2	BALL (.1094 DIA.)	1
28	10-304	WASHER	1
27	216-24	SPACER (1.60 LONG)	1
26	216-500-1	RATCHET BODY ASSEMBLY	1
25	216-41	SPACER (3.60 LONG)	1
24	95-28-1	SPACER (1.38 LONG)	1
23	215-20	SPACER (3.09 LONG)	2
22	10-102-4	PIN, ROLLER	1
21	▲	TUBE (ROLL STAMPED)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-3	SECONDARY ARM	1
17	46-353-10	PAWL	1
16	215-32-1	CAM	1
15	215-21	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	3
13	85-10-2	WASHER, THRUST	1
12	45-92	RIVET, PIVOT PIN	2
11	215-47-1	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	10-103-3	BUTTON PLUG	1
7	10-106-5	BALL (5/32)	1
6	47-344-36	HANDLE ASSEMBLY (ROLL STAMPED)	1
5	47-349	SPRING, LOCK RING	1
4	▲	LOCK RING	1
3	47-245-1	HEX, FLANGE NUT	2
2	47-241	INSERT TUBE	1
1	47-342-3	ADJUSTING SCREW (2.50 LONG)	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/32 ±.01 ±1/2°
±.005 ±.005

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION

MICRO. ADJ. WRENCH 3/4 DR. RATCHET
800 Nm - PLASTIC HANDLE

MATERIAL

FINISH

DRAWN	SCALE	DRAWING NO.
Jay	NONE	
APPROVED	DATE	
Jay	01-12-96	

216-732-TAB

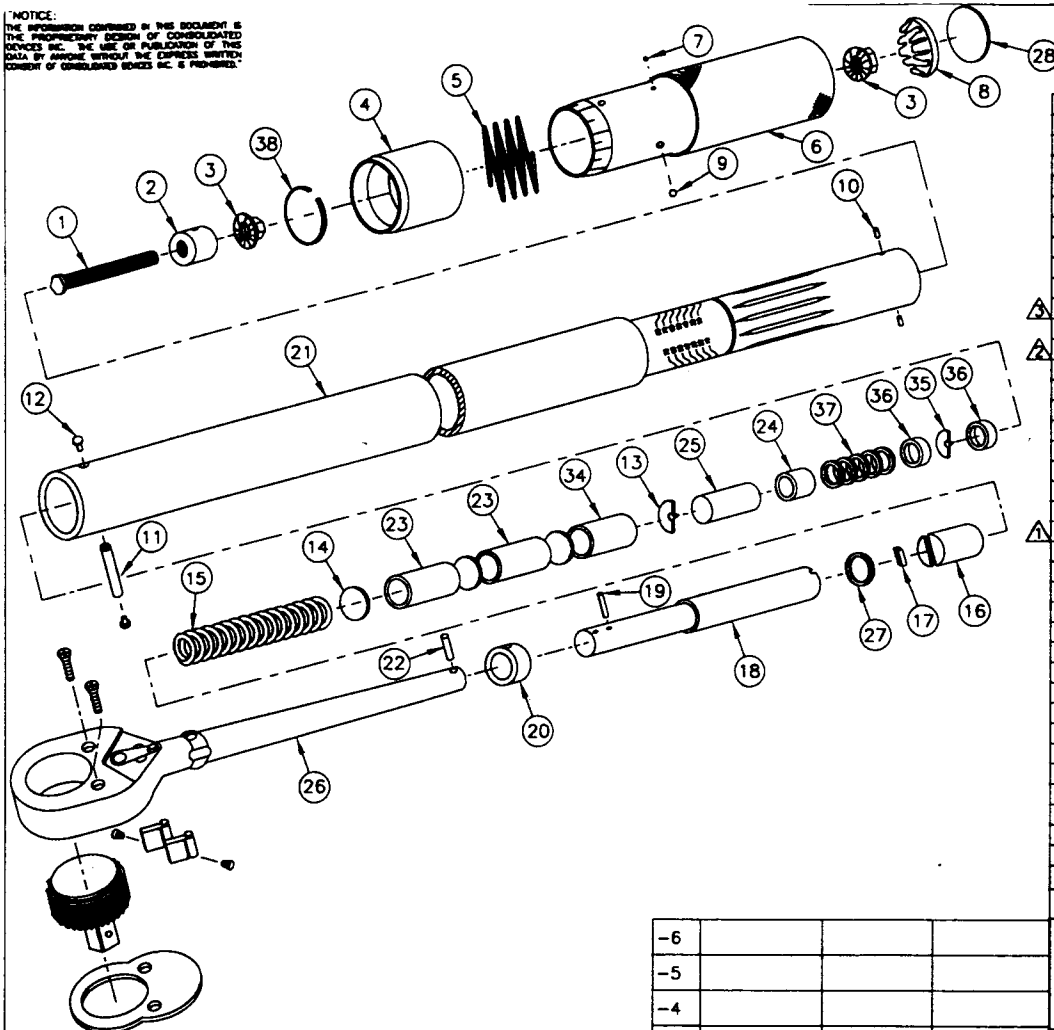
-2				
-1	47-346-50	216-13-7	CDI	8004NMRPHS
TAB NO.	▲ ITEM NO. 4	▲ ITEM NO. 21	CUSTOMER	MODEL NO.

▲ FOR WRENCHES TO BE RECALIBRATED SEE 46-353-TAB.
NOTES:

NOTE: UNCONTROLLED COPY

8004NMRPHS

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- ⚠ USE ITEM 28 FOR CDI ONLY.
 - ⚠ FOR COMPLETE RATCHET ASSEMBLY SEE 216-500-1.
 - ⚠ SEE 46-353-TAB FOR WRENCHES TO BE RECALIBRATED.
- NOTES:

-6			
-5			
-4			
-3			
-2	47-446-20	CDI	804KMRMH
-1	47-280-20	OLY	8000 QLM
TAB NO.	ITEM NO. 4	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	C	REV 17 WRS 6-253-1, REV 26 WRS 715-232, REV 77 WRS 715-225, REV 28 WRS 715-227, 716-510-1 WRS (715-29 ON PAGE 2, AND WRS 23 DRAW 33, AND WRS 3)	1-27-98	Jay

38	47-238-1	SPRING RING	1
37	10-104-1	WASHER, FLAT	7
36	95-28-4	SPACER (.35 LONG)	2
35	30-8	WASHER, THRUST	1
34	216-24	SPACER (1.60 LONG)	1
33			
32			
31			
30			
29			
⚠ 28	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
27	10-241-4	O-RING	1
⚠ 26	216-500-1	RATCHET BODY ASSEMBLY	1
25	216-41	SPACER (3.60 LONG)	1
24	95-28-1	SPACER (1.38 LONG)	1
23	215-20	SPACER (3.09 LONG)	2
22	10-102-4	PIN, ROLLER	1
21	216-13-5	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-3	SECONDARY ARM	1
⚠ 17	46-353-10	PAWL	1
16	215-32	CAM	1
15	215-21	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	3
13	85-10-2	WASHER, THRUST	1
12	45-92	RVET, PIVOT PIN	2
11	215-47-1	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	10-103-3	BUTTON PLUG	1
7	10-106-1	BALL (3/32)	1
6	47-448-10	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-249	SPRING, LOCK RING	1
4	⚠	LOCK RING	1
3	47-245-1	HEX, FLANGE NUT	2
2	47-241	INSERT TUBE	1
1	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

CONSOLIDATED DEVICES, INC.
City of Industry, California

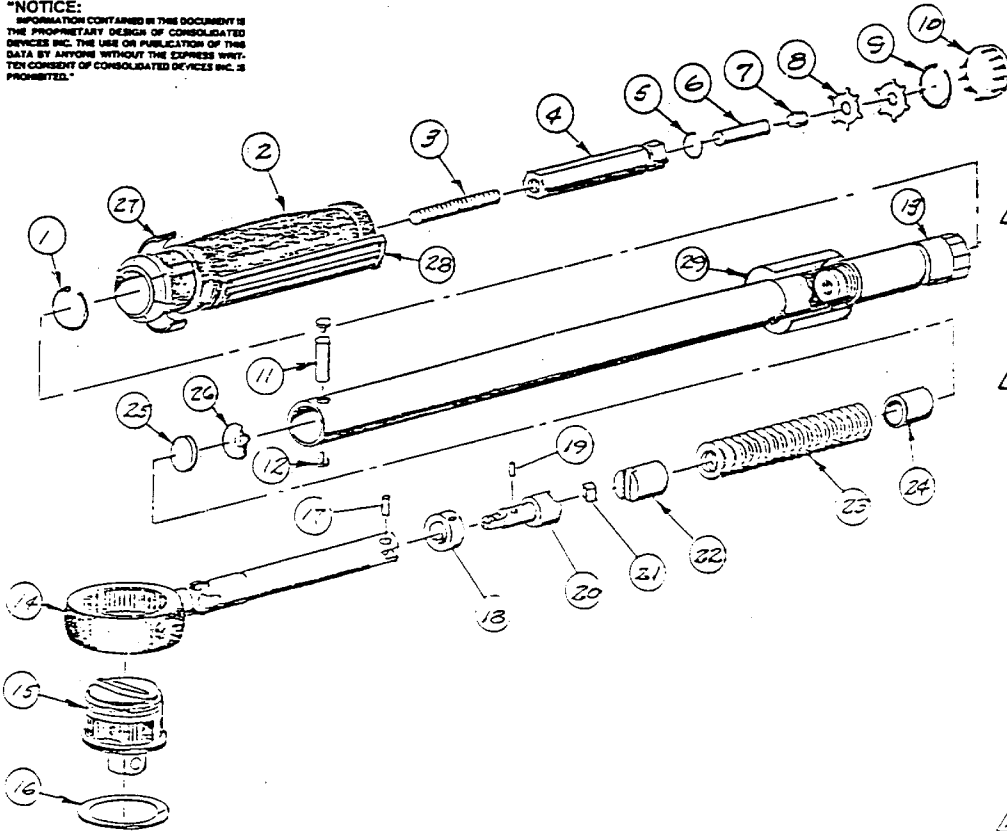
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/4 DR. RATCHET
80 KGM

DRAWN	SCALE	NONE	DRAWING NO.
APPROVED	DATE	03-16-95	216-532-TAB

NOTE: UNCONTROLLED COPY

804KMRMH

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 PROHIBITED.*



- ▲ ITEM 2, FOR RED HANDLE, USE 46-1-2
- ▲ SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED
- ▲ HANDLE GRIP TO BE FURNISHED IF REQUESTED.
- ▲ ITEMS 3 THRU 7 MAY BE FURNISHED AS COMPLETE ASSY. HEX ASSY. (45-94-1) WITH ITEM #6 (45-6-1)

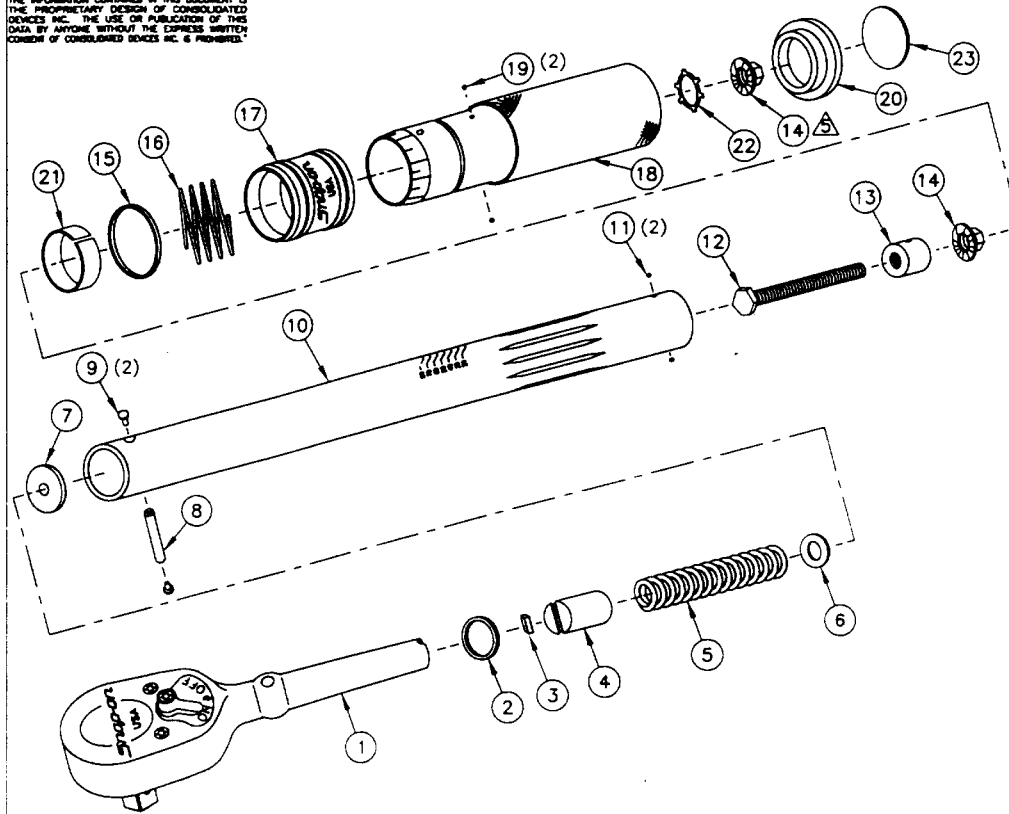
NOTE

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED

29	95-212	LABEL TUBE	1
28	45-217	HANDLE GRIP	1
27	95-211-9	LABEL, HANDLE	1
26	30-8	WASHER, THRUST	1
25	10-104-1	WASHER, FLAT	A/R
24	95-28-2	SPACER	1
23	95-9-3	SPRING, TORQUE	1
22	45-251	CAM	1
21	45-253-1	PAWL	1
20	61-62	SECONDARY ARM	1
19	10-102-24	PIN, FULCRUM	1
18	61-60	FULCRUM	1
17	45-250	PIN, ROLLER	1
16	95-44	RETAINER RING, RATCHET	1
15	95-54	GUTS, RATCHET	1
14	45-93-2	RATCHET BODY (FINISH BLACK)	1
13	46-2-6	TUBE ASSY. (FINISH BLACK) (LABEL)	1
12	45-92	RIVET, PIVOT PIN	2
11	45-91	PIN, PIVOT	1
10	10-103-3	BUTTON PLUG, HANDLE	1
9	45-137	CLIP, HEX RETAINER	1
8	45-75	WASHER, HEX. LOCK	2
7	10-101-19	SOC. SET SCREW, HEX BAR	1
6	▲	PIN, LOCK HEX. BAR	1
5	45-2	CLIP, SPRING HEX. BAR	1
4	45-42	HEX. BAR, INTERNAL ADJ.	1
3	10-101-1	SOC. SET SCREW, HEX BAR	1
2	46-1-1	HANDLE, PLASTIC	1
1	45-74	CLIP, HANDLE	1

CODE IDENT.	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED 3. DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = 1/32 XX = .01 = 4° XX = .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH, 1/2 DR. RATCHET SER 96 30MRP (BLACK FINISH)	
FINISH		DRAWN Z.J.S.	SCALE NONE
		APPROVED [Signature]	DATE 2-26-87
			DRAWING NO. 96-132-1B

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- △ AFTER CALIBRATION, APPLY ITEM 26 TO ITEM 14 IN HANDLE.
 4. LUBE ITEMS 6, 7 & 12 WITH ITEM 24 BEFORE ASSEMBLY.
 3. LUBE ITEMS 4 & 5 WITH ITEM 25 BEFORE ASSEMBLY.
 2. FOR RECALIBRATION PURPOSES SELECT PAWL FROM 61-18-TAB.
 1.

NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	G	ADD ITEMS 24, 25, 26 & NOTES 1, 4, 5, DELETE NOTE 1, CHG. NOTE 2	2-18-00	Jay

27			
26	10-1100	TORQUE SEAL	A/R
25	10-1101-01	SUPER LUBE WITH TEFLON	A/R
24	10-1102-01	SUPER LUBE MULTI-PORPOSE	A/R
23	S/10-203-1	SNAP-ON END PLUG	1
22	61-237	RETAINING RING-SELF LOCKING	1
21	47-338-2	NYLON BUSHING	1
20	S/96-103-2	END PLUG	1
19	10-106-1	BALL (3/32)	2
18	S/61-448-2	HANDLE ASSEMBLY (ROLL STAMPED)	1
17	S/61-246-6	LOCK RING STAMPED	1
16	61-249	SPRING, LOCK RING	1
15	10-240-2	RETAINING RING	1
14	47-245-2	HEX FLANGE NUT	2
13	S/61-241	INSERT, TUBE	1
12	61-142-1	ADJUSTING SCREW (2.00 LONG)	1
11	10-106-5	BALL (5/32)	2
10	S/61-250-23	TUBE (ROLL STAMPED)	1
9	61-263	RIVET, PIVOT PIN	2
8	61-262	PIN, PIVOT	1
7	50-1	WASHER, THRUST	1
6	10-104-2	WASHER, FLAT	1
5	61-265	SPRING, TORQUE	1
4	50-16	CAM	1
3	61-18-0	PIVOT BLOCK (PAWL)	1
2	10-241-2	O-RING	1
1	QCR100REF	RATCHET BODY 1/4 DRIVE	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 :1/32 .XX : 01 :1/2°
 XXXX: .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

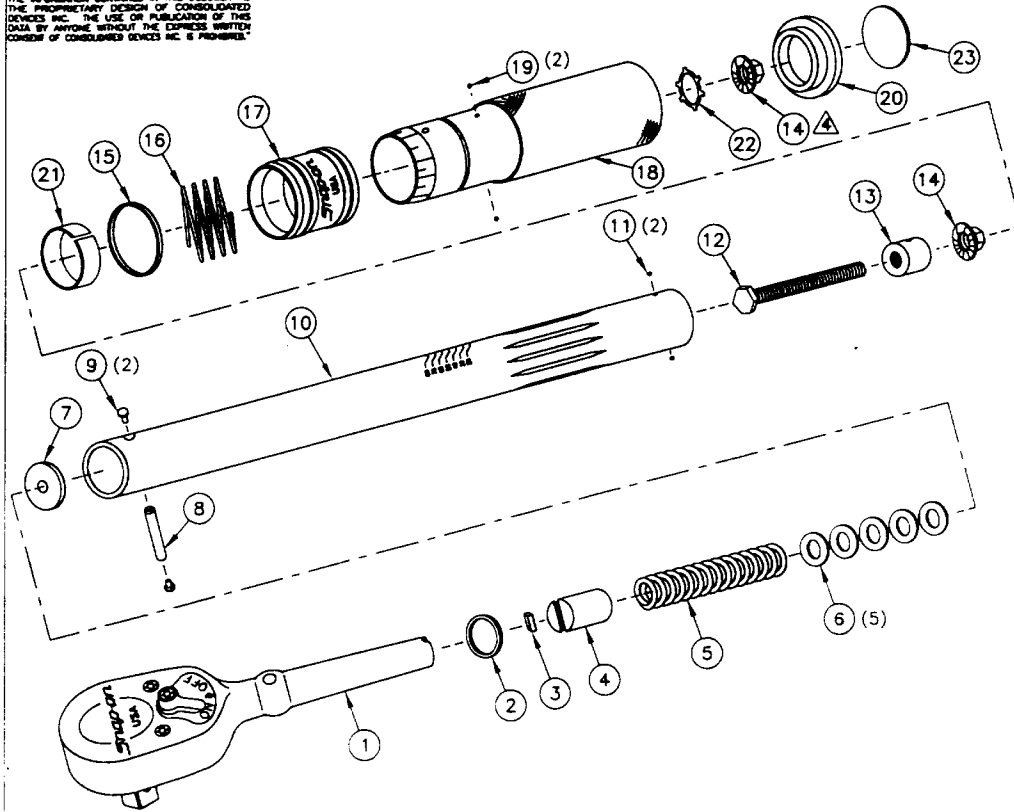
EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/4 DR. RATCHET
 200 INLB

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.	S/61-334-1
APPROVED	Jay	DATE	05-09-96		

NOTE: UNCONTROLLED COPY

QCR200 REF.

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- △ AFTER CALIBRATION, APPLY ITEM 26 TO ITEM 14 IN HANDLE.
3. LUBE ITEMS 6, 7 & 12 WITH ITEM 24 BEFORE ASSEMBLY.
2. LUBE ITEMS 4 & 5 WITH ITEM 25 BEFORE ASSEMBLY.
1. FOR RECALIBRATION PURPOSES SELECT PAWL FROM 61-18-TAB.

NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	G	ITEM 6 NWS REQ. 1, ADD ITEMS 24, 25, 26 & NOTES 2, 3, 4, CHG. MORE	2-18-00	Jay

27				
26	10-1100	TORQUE SEAL		A/R
25	10-1101-01	SUPER LUBE WITH TEFLON		A/R
24	10-1102-01	SUPER LUBE MULTI-PURPOSE		A/R
23	S/10-203-1	SNAP-ON END PLUG		1
22	61-237	RETAINING RING-SELF LOCKING		1
21	47-338-2	NYLON BUSHING		1
20	S/96-103-2	END PLUG		1
19	10-106-1	BALL (3/32)		2
18	S/61-448-2	HANDLE ASSEMBLY (ROLL STAMPED)		1
17	S/61-246-18	LOCK RING STAMPED		1
16	61-249	SPRING, LOCK RING		1
15	10-240-2	RETAINING RING		1
14	47-245-2	HEX FLANGE NUT		2
13	S/61-241	INSERT, TUBE		1
12	61-142-1	ADJUSTING SCREW (2.00 LONG)		1
11	10-106-5	BALL (5/32)		2
10	S/61-254-22	TUBE (ROLL STAMPED)		1
9	61-263	RMET, PMOT PIN		2
8	61-262	PIN, PMOT		1
7	50-1	WASHER, THRUST		1
6	10-104-2	WASHER, FLAT		5
5	61-267-1	SPRING, TORQUE		1
4	50-16	CAM		1
3	61-18-0	PIVOT BLOCK (PAWL)		1
2	10-241-2	O-RING		1
1	QCR100REF	RATCHET BODY 1/4 DRIVE		1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
:1/32 :.01 :1/2°
:XXX :.005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1/4 DR. RATCHET
200 kgcm

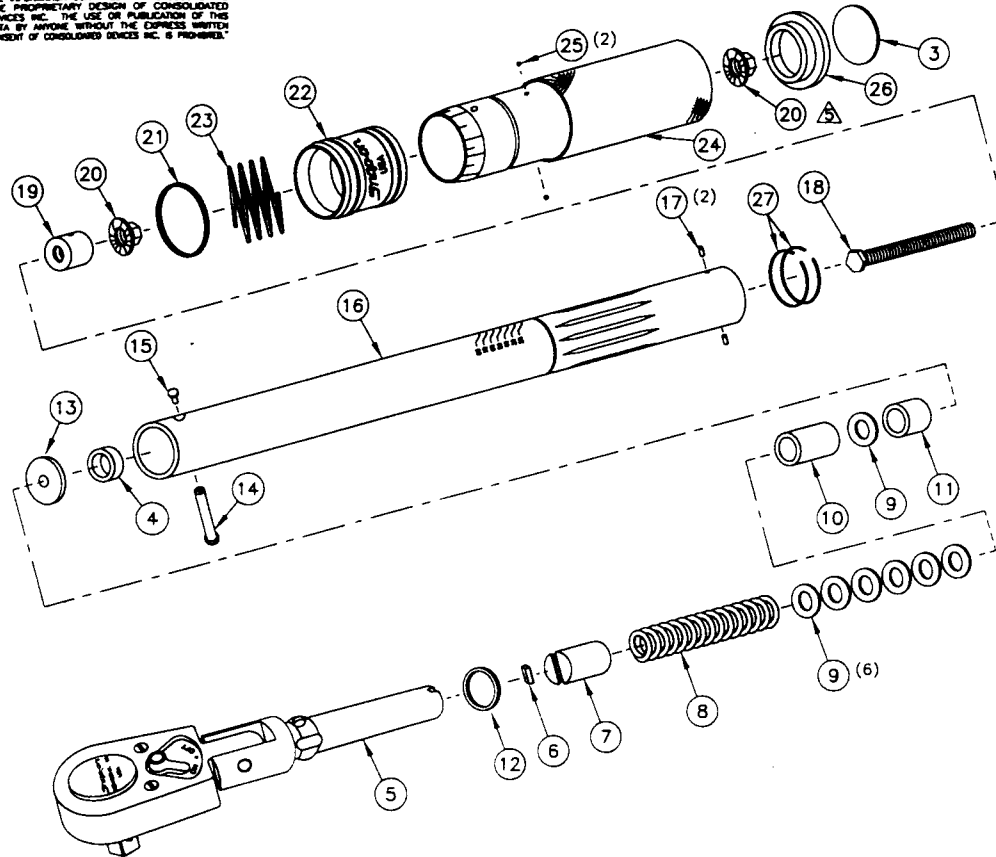
MATERIAL
FINISH

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.	S/61-533-1
APPROVED	Jay	DATE	06-25-96		

NOTE: UNCONTROLLED COPY

QCR100 REF.

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5. AFTER CALIBRATION, APPLY ITEM 28 TO ITEM 20 IN HANDLE.

4. APPLY ITEM 2 TO INSIDE OF ITEM 16 USING GREASE GUN WHEN INSERTING ITEM 8.

3. LUBE ITEMS 4, 7, 8, 9, 10, 11, 13 & 18 WITH ITEM 1 BEFORE ASSEMBLY.

2. IF NECESSARY NUMBER OF WASHERS CAN BE CHANGED.

* PRELOAD SHOULD BE SUCH THAT AT THE LOWEST SETTING (5 FT.LB.) WRENCH READS BETWEEN 5 & 6 FT.LB.

1. FOR RECALIBRATION PURPOSES SELECT PAWL FROM 46-253-TAB OR 46-353-TAB.

NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	1	ITEM 6 WAS 45-253-1, UPDATED TO AS BUILT, ADD ITEMS 1, 2, 28 & NOTES 3, 4, 5, CHANGE NOTE 1	3-1-00	Jay

28	10-1100	TORQUE SEAL	A/R
27	47-238-1	SPRING RING	2
26	96-103-3	END PLUG SNAP-ON, CDI	1
25	10-106-1	BALL (3/32)	2
24	S/47-248-6	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	S/47-246-4	LOCK RING STAMPED	1
21	10-240-1	RETAINING RING	1
20	47-245-1	HEX FLANGE NUT	2
19	S/47-241	INSERT TUBE	1
18	47-342-5	ADJUSTING SCREW (2.25 LONG)	1
17	47-240	PIN	2
16	S/96-204-7	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	1
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-241-1	O-RING	1
11	95-28-3	SPACER (.60 LONG)	1
10	95-28-1	SPACER (1.38 LONG)	1
9	10-104-1	WASHER, FLAT	7
8	46-256	SPRING, TORQUE	1
7	45-251	CAM	1
6	46-353-0	PAWL	1
5	QCR2FLEXREF	RATCHET BODY 3/8 DRIVE	1
4	95-28-4	SPACER (.35 LONG)	1
3	S/10-203-2	SNAP-ON END PLUG (LARGE)	1
2	10-1101-01	SUPER LUBE WITH TEFLON	A/R
1	10-1102-01	SUPER LUBE MULTI-PURPOSE	A/R

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 :1/32 XX :.01 :1/2°
 XXXX :.005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 75 FTLB
 3/8 DRIVE FLEX HEAD

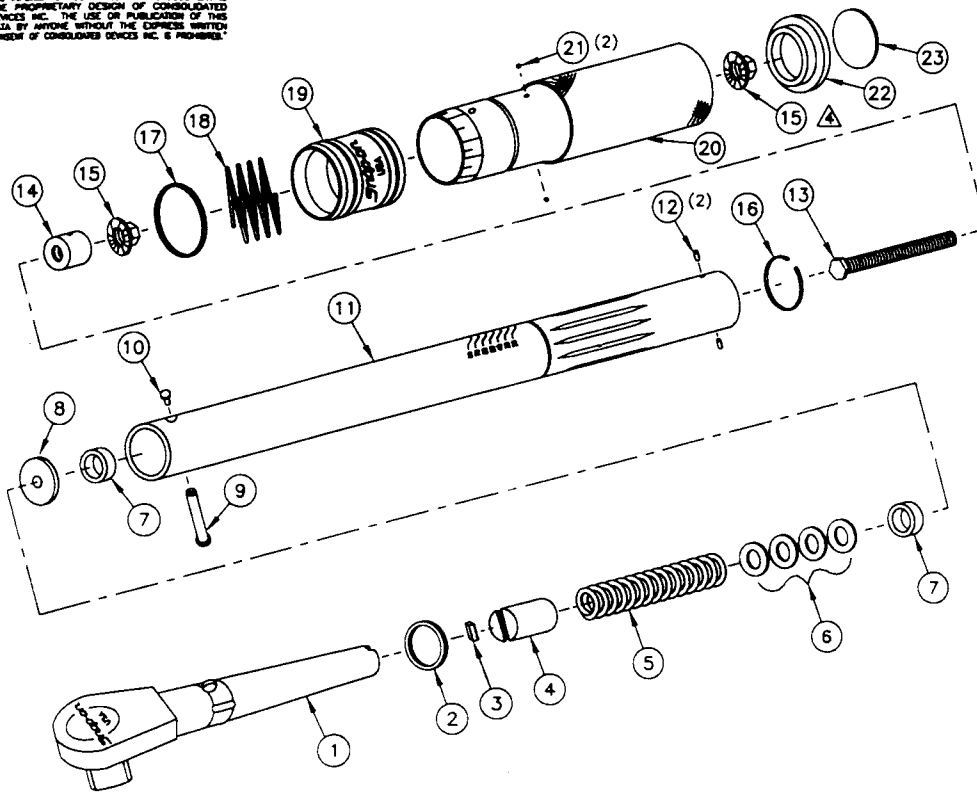
MATERIAL
 FINISH

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.	S/46-334-2
APPROVED	Jay	DATE	10-09-96		

NOTE: UNCONTROLLED COPY

QC2FR75 REF.

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- △ AFTER CALIBRATION, APPLY ITEM 26 TO ITEM 15 IN HANDLE.
3. APPLY ITEM 25 TO INSIDE OF ITEM 11 USING GREASE GUN WHEN INSERTING ITEM 5.
 2. LUBE ITEMS 4, 5, 6, 7, 8 & 13 WITH ITEM 24 BEFORE ASSEMBLY.
 1. FOR RECALIBRATION PURPOSES SELECT PAWL FROM 46-253-TAB OR 46-353-TAB.

NOTES:

NOTE: UNCONTROLLED COPY

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	UPDATED TO AS BUILT, ADD ITEMS 24, 25, 26 & NOTES 2, 3, 4, CHANGE NOTE 1	2-18-00	Jay

26	10-1100	TORQUE SEAL	A/R
25	10-1101-01	SUPER LUBE WITH TEFLON	A/R
24	10-1102-01	SUPER LUBE MULTI-PURPOSE	A/R
23	S/10-203-2	SNAP-ON END PLUG (LARGE)	1
22	96-103-3	END PLUG SNAP-ON, CDI	1
21	10-106-1	BALL (3/32)	2
20	S/47-248-6	HANDLE ASSEMBLY (ROLL STAMPED)	1
19	S/47-246-43	LOCK RING STAMPED	1
18	47-249	SPRING, LOCK RING	1
17	10-240-1	RETAINING RING	1
16	47-238-1	SPRING RING	1
15	47-245-1	HEX FLANGE NUT	2
14	S/47-241	INSERT, TUBE	1
13	47-342-5	ADJUSTING SCREW (2.25 LONG)	1
12	47-240	PIN	2
11	S/96-208-7	TUBE (ROLL STAMPED)	1
10	45-92	RVET, PIVOT PIN	1
9	45-91	PIN, PIVOT	1
8	30-8	WASHER, THRUST	1
7	95-28-4	SPACER (.35 LONG)	2
6	10-104-1	WASHER, FLAT	4
5	95-246-1	SPRING, TORQUE	1
4	45-251	CAM	1
3	46-353-1	PAWL	1
2	10-241-1	O-RING	1
1	QC2FIXREF	ARM & DRIVE ASSEMBLY (3/8)	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 ±.01 ±1/2°
 XXX±.005

MATERIAL

FINISH

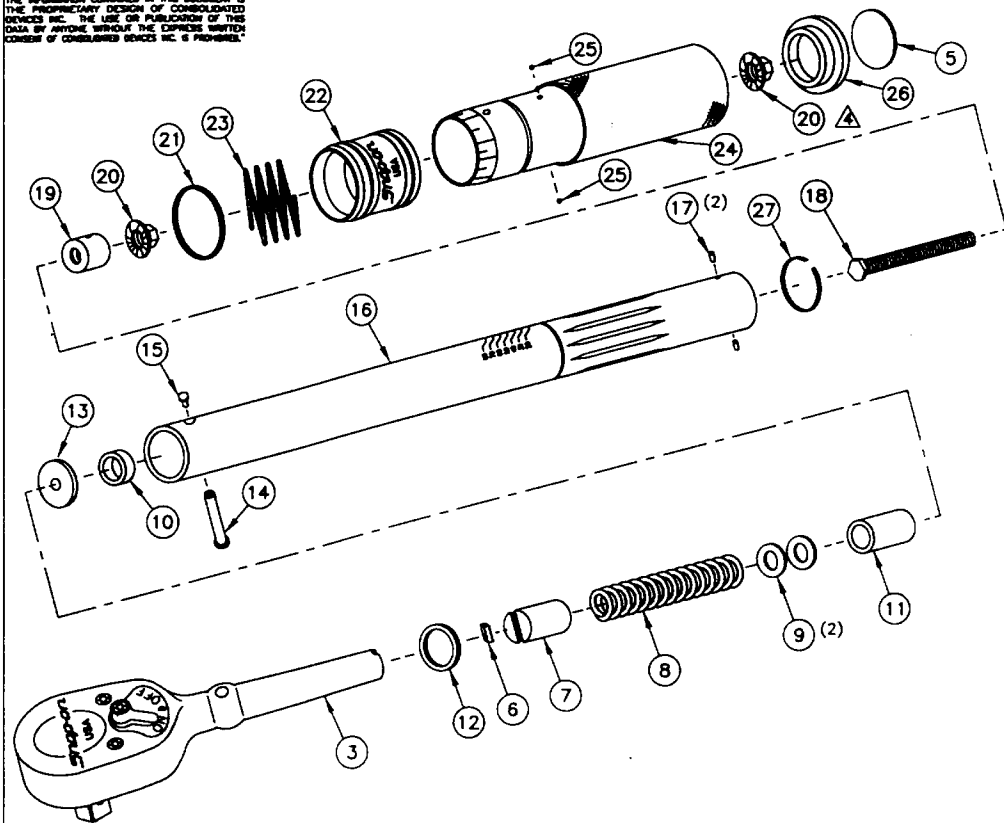
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/8 DR. PLAIN
 50 Nm

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	03-11-97	S/46-630-5

QC2N50 REF.

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△ AFTER CALIBRATION, APPLY ITEM 4 TO ITEM 20 IN HANDLE.

3. APPLY ITEM 2 TO INSIDE OF ITEM 16 USING GREASE GUN WHEN INSERTING ITEM 8.

2. LUBE ITEMS 7, 8, 9, 10, 11, 13 & 18 WITH ITEM 1 BEFORE ASSEMBLY.

1. FOR RECALIBRATION PURPOSES SELECT PAWL FROM 46-253-TAB OR 46-353-TAB.

NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	G	ITEM 6 WAS 45-253-1, UPDATED TO AS BUILT, ADD ITEMS 1, 2, 4 & NOTES 2, 3, 4, CHANGE NOTE 1.	2-23-00	Jay

27	47-238-1	SPRING RING	1
26	96-103-3	END PLUG SNAP-ON, CDI	1
25	10-106-1	BALL (3/32)	2
24	S/47-248-6	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-249	SPRING, LOCK RING	1
22	S/47-246-6	LOCK RING STAMPED	1
21	10-240-1	RETAINING RING	1
20	47-245-1	HEX FLANGE NUT	2
19	S/47-241	INSERT TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	S/96-204-5	TUBE (ROLL STAMP)	1
15	45-92	RVET, PIVOT PIN	1
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-241-1	O-RING	1
11	95-28-2	SPACER (1.00 LONG)	1
10	95-28-4	SPACER (.35 LONG)	1
9	10-104-1	WASHER, FLAT	2
8	46-255-1	SPRING, TORQUE	1
7	45-251	CAM	1
6	46-353-0	PAWL	1
5	S/10-203-2	SNAP-ON END PLUG (LARGE)	1
4	10-1100	TORQUE SEAL	A/R
3	QCR200REF	RATCHET BODY 3/8 DRIVE	1
2	10-1101-01	SUPER LUBE WITH TEFLON	A/R
1	10-1102-01	SUPER LUBE MULTI-PURPOSE	A/R

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 ±.01 ±1/2°
 XXX: .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

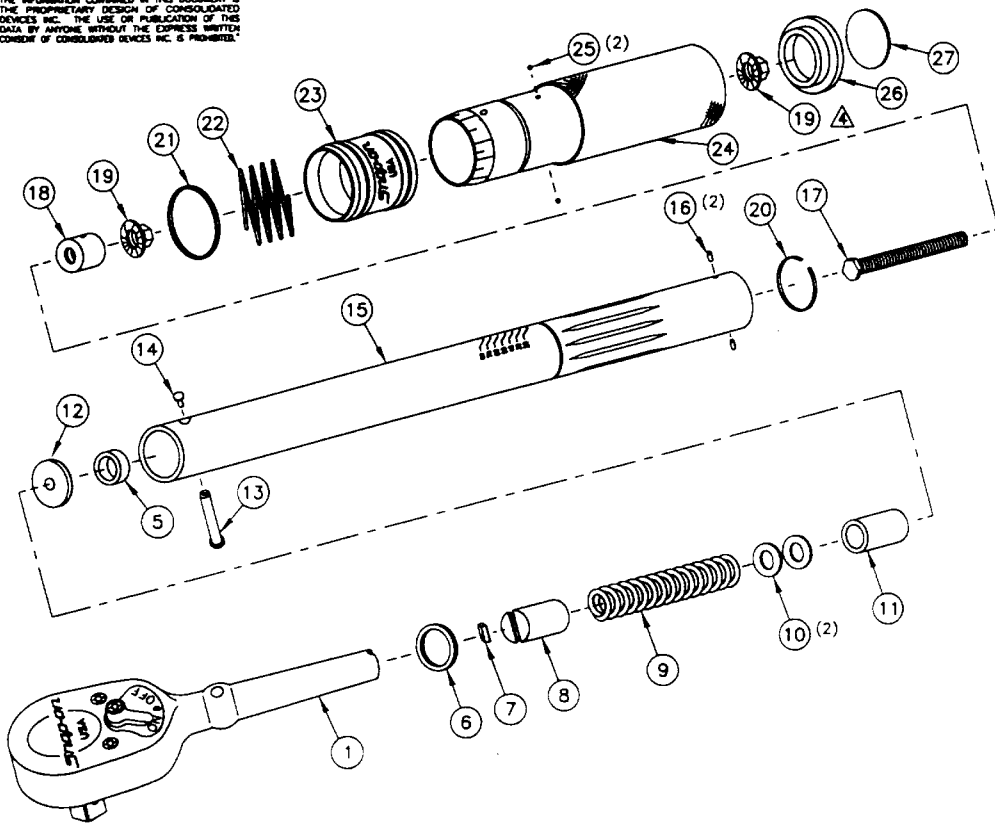
EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 100 FTLB
 3/8 DRIVE

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	04-12-96	S/46-244-1

NOTE: UNCONTROLLED COPY

QC2R100 REF.

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- △ AFTER CALIBRATION, APPLY ITEM 2 TO ITEM 19 IN HANDLE.
3. APPLY ITEM 3 TO INSIDE OF ITEM 15 USING GREASE GUN WHEN INSERTING ITEM 9.
 2. LUBE ITEMS 5, 8, 9, 10, 11, 12 & 17 WITH ITEM 4 BEFORE ASSEMBLY.
 1. FOR RECALIBRATION PURPOSES SELECT PAWL FROM 46-253-TAB OR 46-353-TAB.

NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	G	ITEM 7 WAS 45-253-1, UPDATED TO AS BUILT, ADD ITEMS 2, 3, 4 & NOTES 2, 3, 4. CHANGE NOTE 1.	2-23-00	Jay

27	S/10-203-2	SNAP-ON END PLUG (LARGE)	1
26	96-103-3	END PLUG SNAP-ON, CDI	1
25	10-106-1	BALL (3/32)	2
24	S/47-248-10	HANDLE ASSEMBLY (ROLL STAMP)	1
23	S/47-246-1	LOCK RING STAMPED	1
22	47-249	SPRING, LOCK RING	1
21	10-240-1	RETAINING RING	1
20	47-238-1	SPRING RING	1
19	47-245-1	HEX FLANGE NUT	2
18	S/47-241	INSERT, TUBE	1
17	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
16	47-240	PIN	2
15	S/96-204-8	TUBE (ROLL STAMP)	1
14	45-92	RIVET, PIVOT PIN	1
13	45-91	PIN, PIVOT	1
12	30-8	WASHER, THRUST	1
11	95-28-1	SPACER (1.38 LONG)	1
10	10-104-1	WASHER, FLAT	2
9	95-93	SPRING, TORQUE	1
8	45-251	CAM	1
7	46-353-0	PAWL	1
6	10-241-1	O-RING	1
5	95-28-4	SPACER (.35 LONG)	1
4	10-1102-01	SUPER LUBE MULTI-PURPOSE	A/R
3	10-1101-01	SUPER LUBE WITH TEFLON	A/R
2	10-1100	TORQUE SEAL	A/R
1	QCR200REF	RATCHET BODY 3/8 DRIVE	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:

FRACTIONS DECIMALS ANGLES
 : 1/32 .XX :.01 : 1/2°
 XXX: .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/8 DR. RATCHET
 1000 INLB

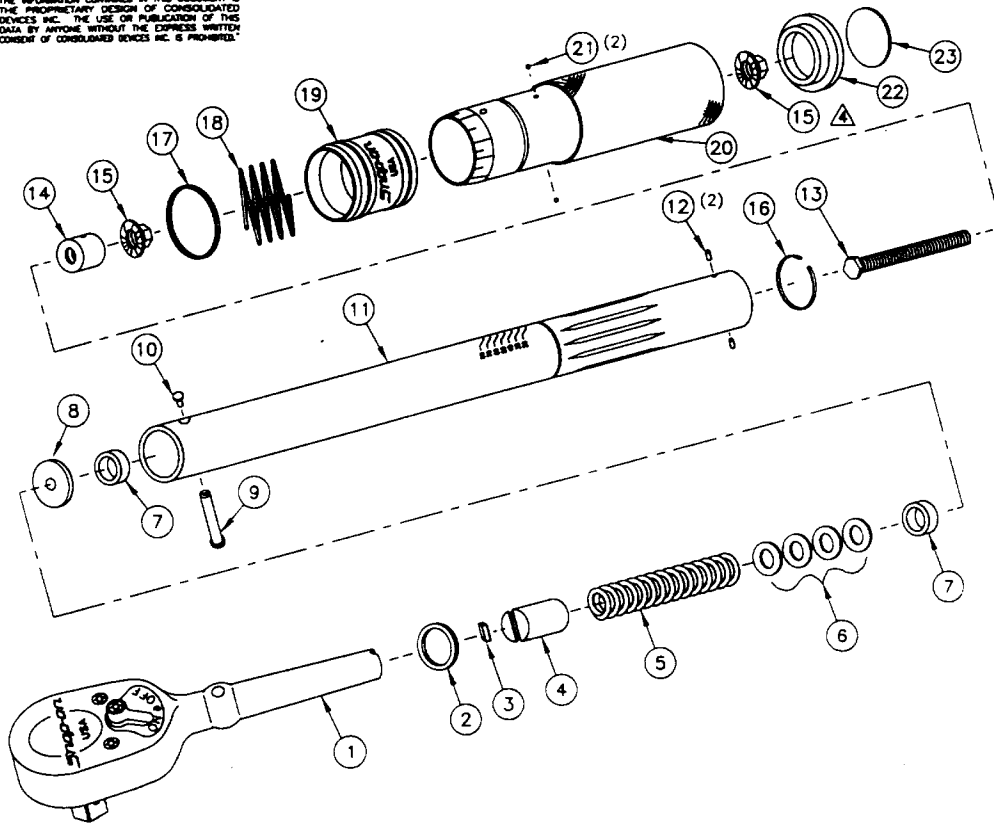
DRAWN A.M.V. SCALE NONE
 APPROVED Jay DATE 05-09-96

DRAWING NO.
 S/46-235-1

NOTE: UNCONTROLLED COPY

QC2R1000 REF.

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 CONSENT OF CONSOLIDATED DEVICES INC. IS PROHIBITED.



BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	F	UPDATED TO AS BUILT, ADD ITEMS 24, 25, 26 & NOTES 2, 3, 4, CHANGE NOTE 1	2-23-00	Jay

26	10-1100	TORQUE SEAL	A/R
25	10-1101-01	SUPER LUBE WITH TEFLON	A/R
24	10-1102-01	SUPER LUBE MULTI-PURPOSE	A/R
23	S/10-203-2	SNAP-ON END PLUG (LARGE)	1
22	96-103-3	END PLUG SNAP-ON, CDI	1
21	10-106-1	BALL (3/32)	2
20	S/47-248-10	HANDLE ASSEMBLY (ROLL STAMPED)	1
19	S/47-246-21	LOCK RING STAMPED	1
18	47-249	SPRING, LOCK RING	1
17	10-240-1	RETAINING RING	1
16	47-238-1	SPRING RING	1
15	47-245-1	HEX FLANGE NUT	2
14	S/47-241	INSERT, TUBE	1
13	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
12	47-240	PIN	2
11	S/96-206-6	TUBE (ROLL STAMPED)	1
10	45-92	RIVET, PIVOT PIN	1
9	45-91	PIN, PIVOT	1
8	30-8	WASHER, THRUST	1
7	95-28-4	SPACER (.35 LONG)	2
6	10-104-1	WASHER, FLAT	4
5	95-246	SPRING, TORQUE	1
4	45-251	CAM	1
3	46-353-1	PAWL	1
2	10-241-1	O-RING	1
1	QCR200REF	RATCHET BODY 3/8 DRIVE	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 : 1/32 .XX : 01 : 1/2°
 XXXX .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. RATCHET
1000 CMKG

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.	S/46-530-1
APPROVED	Jay	DATE	06-12-96		

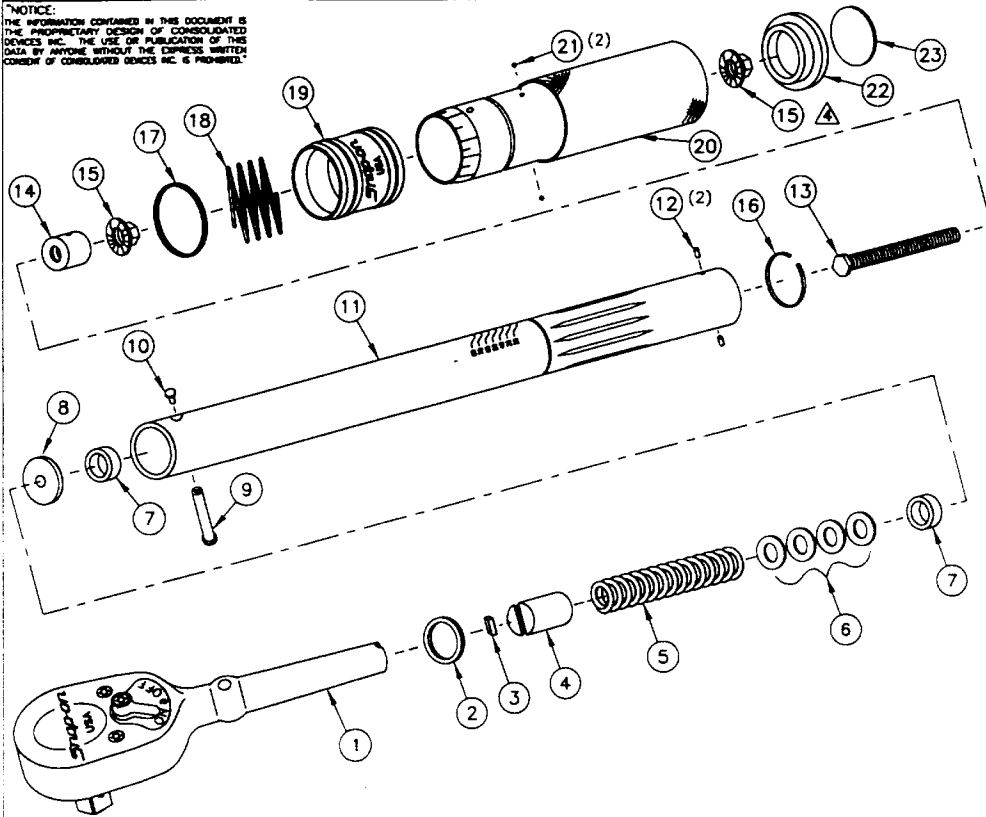
4. AFTER CALIBRATION, APPLY ITEM 26 TO ITEM 15 IN HANDLE.
3. APPLY ITEM 25 TO INSIDE OF ITEM 11 USING GREASE GUN WHEN INSERTING ITEM 5.
2. LUBE ITEMS 4, 5, 6, 7, 8 & 13 WITH ITEM 24 BEFORE ASSEMBLY.
1. FOR RECALIBRATION PURPOSES SELECT PAWL FROM 46-253-TAB OR 46-353-TAB.

NOTES:

NOTE: UNCONTROLLED COPY

QCRMI000 REF.

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 CONSENT OF CONSOLIDATED DEVICES INC. IS PROHIBITED.



BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	G	RELOCATED ALL ITEMS IN ORDER OF ASSEMBLY, ADD ITEMS 24, 25, 26 & NOTES 2, 3, 4.	2-11-00	Jay

26	10-1100	TORQUE SEAL	A/R
25	10-1101-01	SUPER LUBE WITH TEFLON	A/R
24	10-1102-01	SUPER LUBE MULTI-PURPOSE	A/R
23	S/10-203-2	SNAP-ON END PLUG (LARGE)	1
22	96-103-3	END PLUG SNAP-ON, CDI	1
21	10-106-1	BALL (3/32)	2
20	S/47-248-6	HANDLE ASSEMBLY (ROLL STAMPED)	1
19	S/47-246-13	LOCK RING STAMPED	1
18	47-249	SPRING, LOCK RING	1
17	10-240-1	RETAINING RING	1
16	47-238-1	SPRING RING	1
15	47-245-1	HEX FLANGE NUT	2
14	S/47-241	INSERT, TUBE	1
13	47-342-5	ADJUSTING SCREW (2.25 LONG)	1
12	47-240	PIN	2
11	S/96-208-7	TUBE (ROLL STAMPED)	1
10	45-92	RMVET, PIVOT PIN	1
9	45-91	PIN, PIVOT	1
8	30-8	WASHER, THRUST	1
7	95-28-4	SPACER (.35 LONG)	2
6	10-104-1	WASHER, FLAT	4
5	95-246-1	SPRING, TORQUE	1
4	45-251	CAM	1
3	46-353-1	PAWL	1
2	10-241-1	O-RING	1
1	QCR200REF	RATCHET BODY 3/8 DRIVE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 ±.01 ±1/2°
 XXX: 005

MATERIAL
 FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/8 DR. RATCHET
 50 Nm

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	04-22-96	S/46-630-1

- △ AFTER CALIBRATION, APPLY ITEM 26 TO ITEM 15 IN HANDLE.
 3. APPLY ITEM 25 TO INSIDE OF ITEM 11 USING GREASE GUN WHEN INSERTING ITEM 5.
 2. LUBE ITEMS 4, 5, 6, 7, 8 & 13 WITH ITEM 24 BEFORE ASSEMBLY.

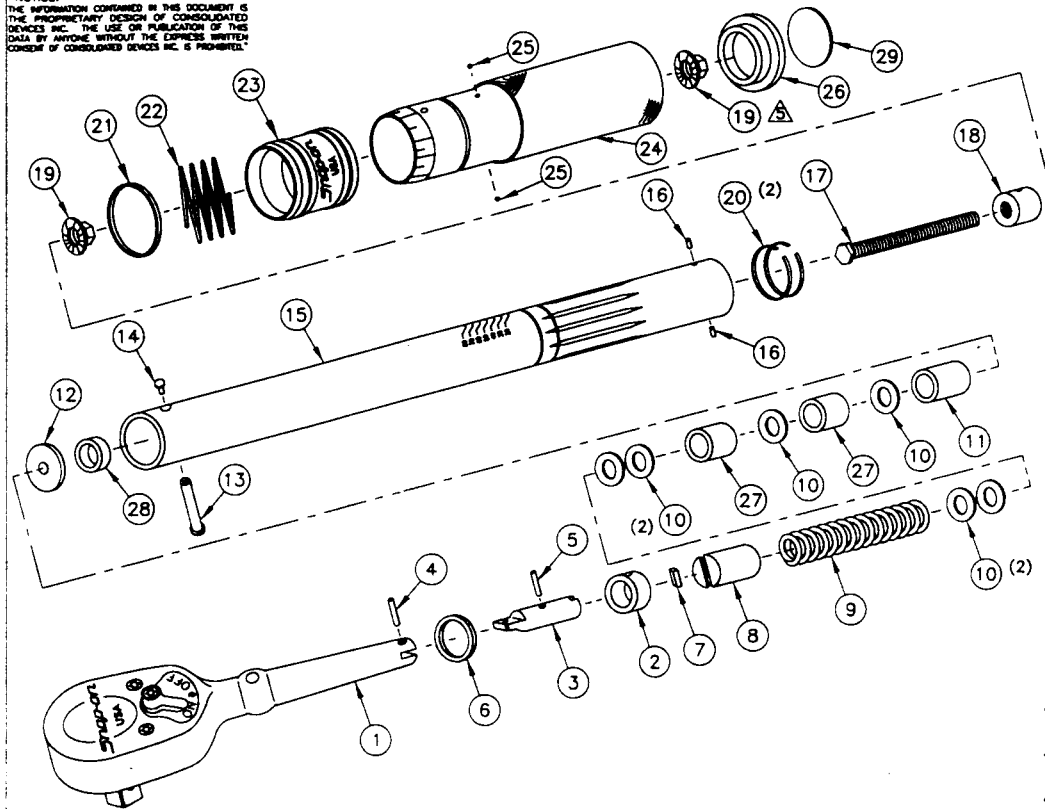
△ FOR RECALIBRATION PURPOSES SELECT PAWL FROM 46-253-TAB OR 46-353-TAB.

NOTES:

NOTE: UNCONTROLLED COPY

QC2RN50

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	E	ITEM 7 WAS 45-253-1, RELOCATED ALL ITEMS IN ORDER OF ASSEMBLY, ADD ITEMS 30, 31, 32 & NOTES 2, 3, 4 & 5	2-11-00	Jay

32	10-1100	TORQUE SEAL	A/R
31	10-1101-01	SUPER LUBE WITH TEFLON	A/R
30	10-1102-01	SUPER LUBE MULTI-PURPOSE	A/R
29	S/10-203-2	SNAP-ON END PLUG (LARGE)	1
28	95-28-4	SPACER (.35 LONG)	1
27	95-28-2	SPACER (1.00 LONG)	2
26	96-103-3	END PLUG SNAP-ON, CDI	1
25	10-106-1	BALL (3/32)	2
24	S/47-248-1	HANDLE ASSEMBLY (ROLL STAMPED)	1
23	S/47-246-8	LOCK RING STAMPED	1
22	47-249	SPRING, LOCK RING	1
21	10-240-1	RETAINING RING	1
20	47-238-1	SPRING RING	2
19	47-245-1	HEX FLANGE NUT	2
18	S/47-241	INSERT, TUBE	1
17	47-342-2	ADJUSTING SCREW (2.75 LONG)	1
16	47-240	PIN	2
15	S/96-204-1	TUBE (ROLL STAMPED)	1
14	45-92	RIVET, PIVOT PIN	1
13	45-91	PIN, PIVOT	1
12	30-8	WASHER, THRUST	1
11	95-28-1	SPACER (1.38 LONG)	1
10	10-104-1	WASHER, FLAT	6
9	95-246	SPRING, TORQUE	1
8	45-251	CAM	1
7	46-353-0	PAWL	1
6	10-241-1	O-RING	1
5	10-102-24	PIN, FULCRUM	1
4	10-102-18	PIN, ROLLER	1
3	61-61	SECONDARY ARM	1
2	61-60	FULCRUM	1
1	QCR300REF	RATCHET BODY 1/2 DRIVE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 :1/32 .XX :.01 :1/2°
 XXXX .005

MATERIAL
 FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. RATCHET
 250 FTLB

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	08-07-96	S/96-244-1

5. AFTER CALIBRATION, APPLY ITEM 32 TO ITEM 19 IN HANDLE.

4. APPLY ITEM 31 TO INSIDE OF ITEM 15 USING GREASE GUN WHEN INSERTING ITEM 9.

3. LUBE ITEMS 2, 3, 5, 8, 9, 10, 11, 12, 17, 27 & 28 WITH ITEM 30 BEFORE ASSEMBLY.

2. FOR ASSEMBLY OF ITEMS 2, 3 & 5 SEE DWG. 61-33.

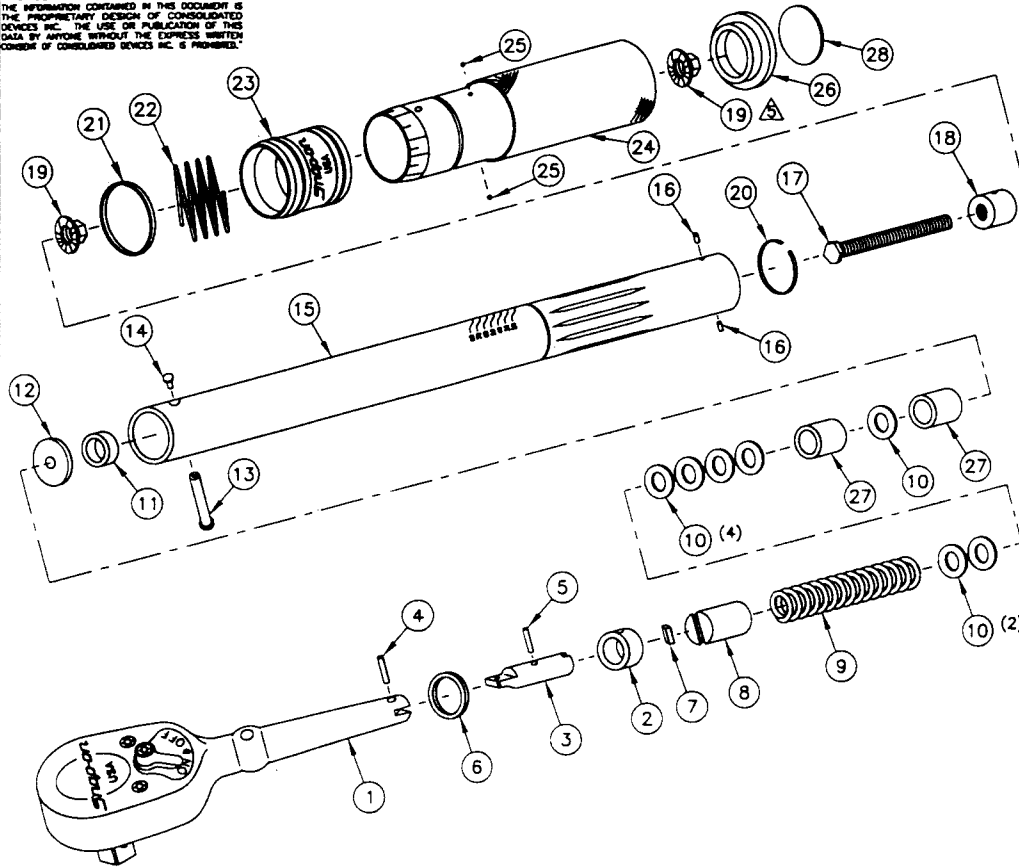
1. FOR RECALIBRATION PURPOSES, SELECT PAWL FROM 46-253-TAB OR 46-353-TAB.

NOTES:

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QC3R250

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- △ AFTER CALIBRATION, APPLY ITEM 31 TO ITEM 19 IN HANDLE.
 4. APPLY ITEM 30 TO INSIDE OF ITEM 15 USING GREASE GUN WHEN INSERTING ITEM 9.
 3. LUBE ITEMS 2, 3, 5, 8, 9, 10, 11, 12, 17 & 27 WITH ITEM 29 BEFORE ASSEMBLY.
 △ FOR ASSEMBLY OF ITEMS 2, 3 & 5 SEE DWG. 61-33.
 △ FOR RECALIBRATION PURPOSES, SELECT PAWL FROM 46-253-TAB OR 46-353-TAB.
- NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	1	ITEM 7 WAS 45-253-1, UPDATED TO AS BUILT, ADD ITEMS 29, 30, 31 & NOTES 2, 3, 4 & 5, CHANGE NOTE 1	3-2-00	Jay

32			
31	10-1100	TORQUE SEAL	A/R
30	10-1101-01	SUPER LUBE WITH TEFLON	A/R
29	10-1102-01	SUPER LUBE MULTI-PURPOSE	A/R
28	S/10-203-2	SNAP-ON END PLUG (LARGE)	1
27	95-28-2	SPACER (1.00 LONG)	2
26	96-103-3	END PLUG SNAP-ON, CDI	1
25	10-106-1	BALL (3/32)	2
24	S/47-448-1	HANDLE ASSEMBLY (ROLL STAMPED)	1
23	S/47-246-23	LOCK RING STAMPED	1
22	47-249	SPRING, LOCK RING	1
21	10-240-1	RETAINING RING	1
20	47-238-1	SPRING RING	1
19	47-245-1	HEX FLANGE NUT	2
18	S/47-241	INSERT, TUBE	1
17	47-342-5	ADJUSTING SCREW (2.25 LONG)	1
16	47-240	PIN	2
15	S/96-206-2	TUBE (ROLL STAMPED)	1
14	45-92	RVET, PIVOT PIN	1
13	45-91	PIN, PIVOT	1
12	30-8	WASHER, THRUST	1
11	95-28-4	SPACER (.35 LONG)	1
10	10-104-1	WASHER, FLAT	7
9	95-93	SPRING, TORQUE	1
8	45-251	CAM	1
△ 7	46-353-0	PAWL	1
6	10-241-1	O-RING	1
△ 5	10-102-24	PIN, FULCRUM	1
4	10-102-18	PIN, ROLLER	1
△ 3	61-61	SECONDARY ARM	1
△ 2	61-60	FULCRUM	1
1	QCR300REF	RATCHET BODY 1/2 DRIVE	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
1/32 .01 .1/2°
XXX.005

CONSOLIDATED DEVICES, INC.

City of Industry, California

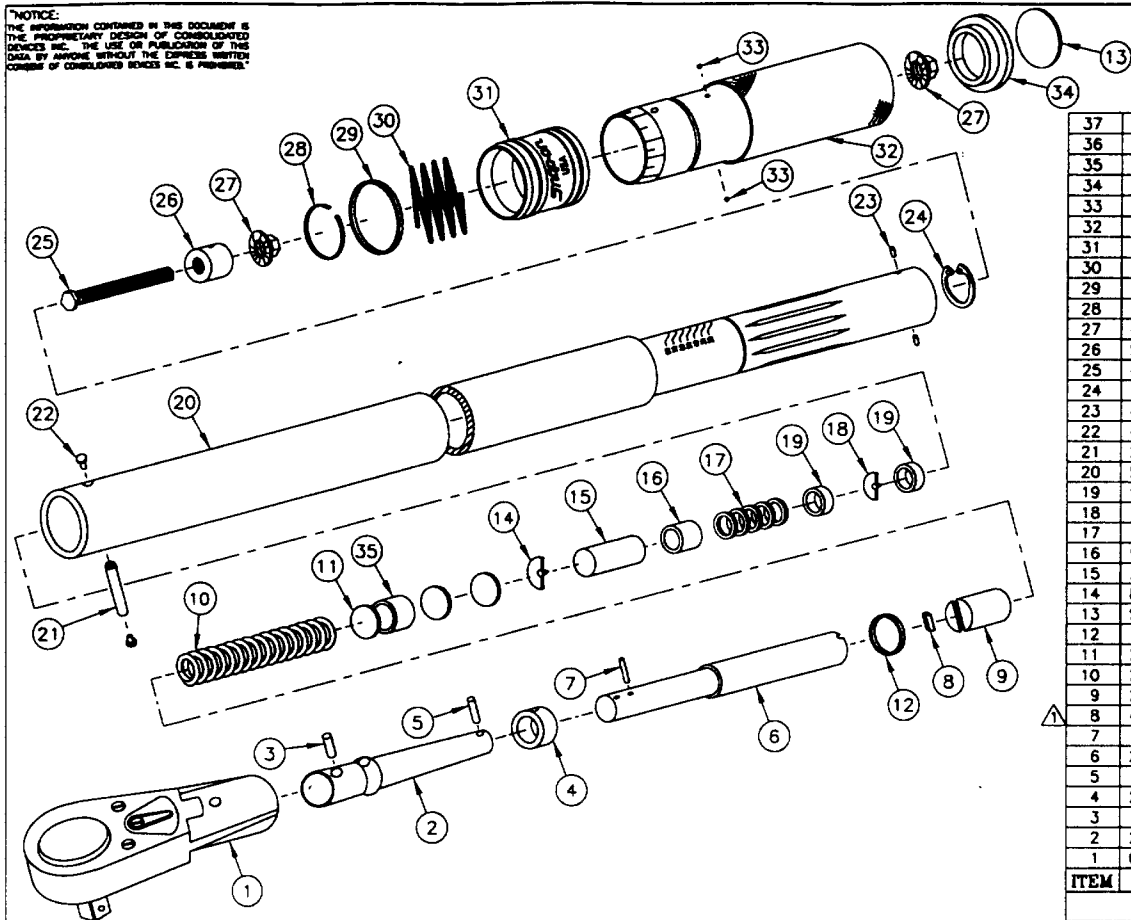
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1/2 DR. RATCHET
30 KGM

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	06-12-96	S/96-533-1

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QC3RM30 REF

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	E	REV 3 05 10-10-12, REV 2 05 47-30-3, REV 1 05 10-10-11, REV 0 5	2-8-99	Jay

37				
36				
35	216-24-1	SPACER (.80 LONG)		1
34	96-103-3	END PLUG SNAP-ON, CDI		1
33	10-106-1	BALL (3/32)		2
32	S/47-248-2	HANDLE ASSEMBLY (ROLL STAMPED)		1
31	S/47-246-9	LOCK RING		1
30	47-249	SPRING, LOCK RING		1
29	10-240-1	RETAINING RING		1
28	47-238-1	SPRING RING		1
27	47-245-1	HEX, FLANGE NUT		2
26	S/47-241	INSERT TUBE		1
25	47-342-3	ADJUSTING SCREW (2.50 LONG)		1
24	10-238-2	RETAINING RING		1
23	47-240	PIN		2
22	45-92	RVET, PIVOT PIN		2
21	215-47-1	PIN, PIVOT		1
20	S/216-13-10	TUBE (ROLL STAMPED)		1
19	95-28-4	SPACER (.35 LONG)		2
18	30-8	WASHER, THRUST		1
17	10-104-1	WASHER, FLAT		5
16	95-28-1	SPACER (1.38 LONG)		1
15	216-41	SPACER (3.60 LONG)		1
14	85-10-2	WASHER, THRUST		1
13	S/10-203-2	SNAP-ON END PLUG (LARGE)		1
12	10-241-4	O-RING		1
11	215-82-1	WASHER, FLAT		3
10	216-86	SPRING, TORQUE		1
9	215-32-1	CAM		1
8	46-353-10	PAWL		1
7	10-102-23	PIN, FULCRUM		1
6	216-61-4	SECONDARY ARM		1
5	10-102-4	PIN, ROLLER		1
4	216-60	FULCRUM		1
3	10-107-22	SPRING PIN		1
2	215-31	ARM CLICK		1
1	OCR400REF	RATCHET BODY 3/4 DR. ASS'Y.		1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 :1/32 .001 .01 :1/2°
 .0002 .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/4 DR. RATCHET
 400 FTLB

MATERIAL
 FINISH

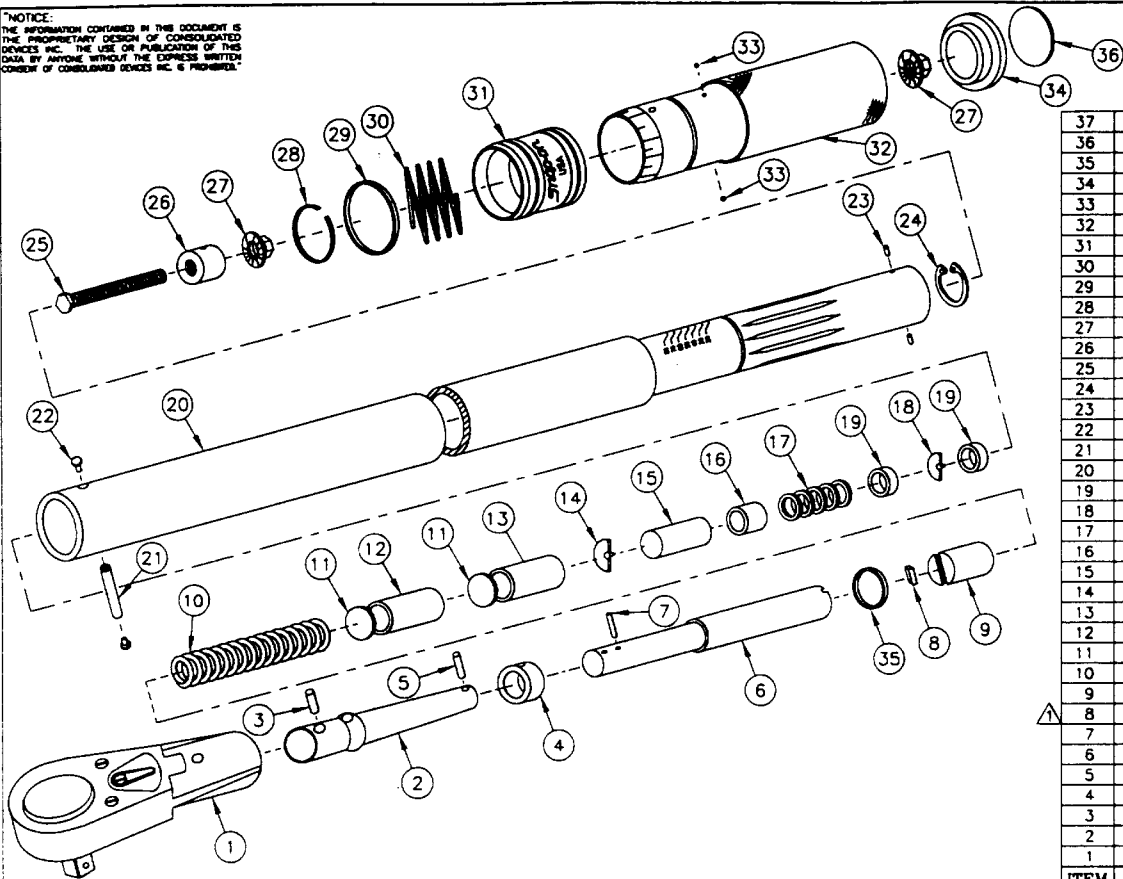
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	11-15-96	S/216-236-1

⚠ FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB OR 46-353 TAB.
 NOTES:

NOTE: UNCONTROLLED COPY

QC 4R 400

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	H	ITEM 3 WMS 10-107-12, ITEM 34 WMS 10-103-13, ADD ITEM 36	2-8-99	Joy

37				
36	S/10-203-2	SNAP-ON END PLUG (LARGE)		1
35	10-241-4	O-RING		1
34	96-103-3	END PLUG SNAP-ON, CDI		1
33	10-106-1	BALL (3/32)		2
32	S/47-248-10	HANDLE ASSEMBLY (ROLL STAMPED)		1
31	S/47-246-10	LOCK RING		1
30	47-249	SPRING, LOCK RING		1
29	10-240-1	RETAINING RING		1
28	47-238-1	SPRING RING		1
27	47-245-1	HEX, FLANGE NUT		2
26	S/47-241	INSERT TUBE		1
25	47-342-3	ADJUSTING SCREW (2.50 LONG)		1
24	10-238-2	RETAINING RING		1
23	47-240	PIN		2
22	45-92	RVET, PIVOT PIN		2
21	215-47-1	PIN, PIVOT		1
20	S/216-13-1	TUBE (ROLL STAMPED)		1
19	95-28-4	SPACER (.35 LONG)		2
18	30-8	WASHER, THRUST		1
17	10-104-1	WASHER, FLAT		5
16	95-28-1	SPACER (1.38 LONG)		1
15	216-41	SPACER (3.60 LONG)		1
14	85-10-2	WASHER, THRUST		1
13	216-24	SPACER (1.60 LONG)		1
12	215-20	SPACER (3.09 LONG)		1
11	215-82-1	WASHER, FLAT		2
10	215-86	SPRING, TORQUE		1
9	215-32-1	CAM		1
8	46-353-10	PAWL		1
7	10-102-23	PIN, FULCRUM		1
6	216-61-4	SECONDARY ARM		1
5	10-102-4	PIN, ROLLER		1
4	216-60	FULCRUM		1
3	10-107-22	SPRING PIN		1
2	215-31	ARM CLICK		1
1	QCR400REF	RATCHET BODY 3/4 DR. ASSY.		1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

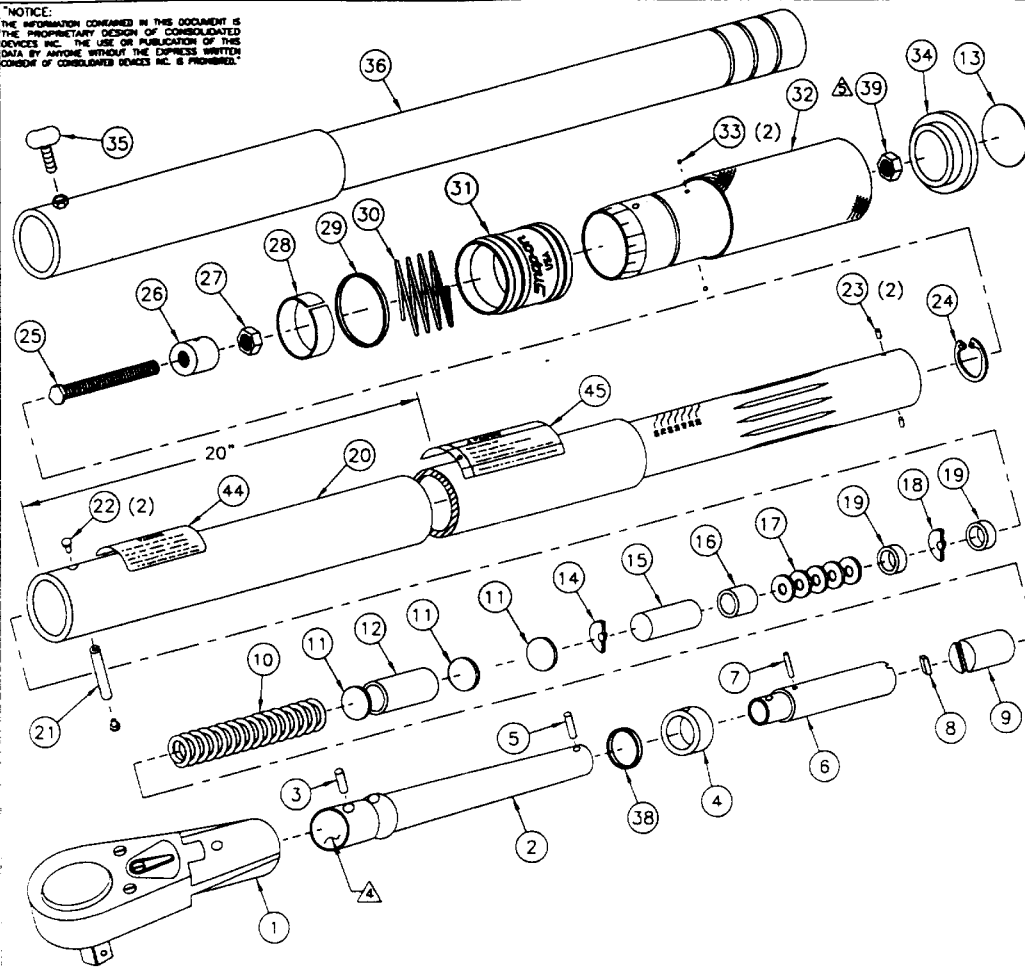
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/32 .005 .01 ±1/2° XXXX.005	CONSOLIDATED DEVICES, INC. City of Industry, California		
	EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 3/4 DR. RATCHET 600 FTLB		
MATERIAL	DRAWN	A.M.V.	SCALE NONE
FINISH	APPROVED	Joy	DATE 04-22-96
			DRAWING NO. S/216-232-1

1 FOR WRENCHES TO BE RECALIBRATED SEE 46-353-TAB.
NOTES:

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- ⚠ AFTER CALIBRATION, APPLY ITEM 43 TO ITEM 39.
- ⚠ APPLY ITEM 40 TO ITEM 2 WHERE SHOWN BEFORE ATTACHING ITEM 1.
- 3. LUBE ITEMS 10, 11, 12, 14, 15, 16, 17, 18, 19, & 25 WITH ITEM 41 BEFORE ASSEMBLY.
- 2. LUBE ITEMS 4, 5, 6, 7, & 9 WITH ITEM 42 BEFORE ASSEMBLY.
- 1. FOR RECALIBRATION PURPOSES, SELECT PAWL FROM 46-353-TAB.

NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
RR	M	REV. RECS. 4-4, 46 & MORE 1. AND MORE 2-5, AND RELOCATED ALL RECS IN ORDER OF ASSY	3-29-00	Jay

45	15-66	LABEL WARNING -- EXTENSION		1
44	15-65	WARNING LABEL		1
43	10-1100	TORQUE SEAL		A/R
42	10-1101-01	SUPER LUBE WITH TEFLON		A/R
41	10-1102-01	SUPER LUBE MULTI-PURPOSE		A/R
40	10-1104-01	RTV SEALANT-DOW CORNING		A/R
39	10-138-9	3/8-16 NUT		1
38	10-241-3	O-RING		1
37				
36	216-186-02	EXTENSION		1
35	10-155	WING BOLT		1
34	96-103-3	BUTTON PLUG		1
33	10-106-1	BALL (3/32)		2
32	S/47-348-13	HANDLE ASSEMBLY (ROLL STAMPED)		1
31	S/47-246-26	LOCK RING		1
30	47-249	SPRING, LOCK RING		1
29	10-240-1	RETAINING RING		1
28	47-338-1	NYLON BUSHING		1
27	10-138-24	HEX JAM NUT		2
26	S/96-344-14	INSERT TUBE		1
25	S/96-342-1	ADJUSTING SCREW (2.75 LONG)		1
24	10-238-2	RETAINING RING		1
23	47-240	PIN		2
22	85-38	RIVET, PIVOT PIN		2
21	85-37	PIN, PIVOT		1
20	S/216-433-13	TUBE (ROLL STAMPED)		1
19	95-28-4	SPACER (.35 LONG)		2
18	30-8	WASHER, THRUST		1
17	10-104-1	WASHER, FLAT		5
16	95-28-1	SPACER (1.38 LONG)		1
15	216-41	SPACER (3.60 LONG)		1
14	85-10-2	WASHER, THRUST		1
13	S/10-203-2	SNAP-ON END PLUG (LARGE)		1
12	215-20	SPACER (3.09 LONG)		1
11	215-82-1	WASHER, FLAT		2
10	215-21	SPRING, TORQUE		1
9	215-32-1	CAM		1
8	46-353-10	PAWL		1
7	10-102-23	PIN, FULCRUM		1
6	216-61-5	SECONDARY ARM		1
5	215-104	PIN, ROLLER		1
4	216-60	FULCRUM		1
3	10-107-41	SPRING PIN		1
2	S/216-133	ARM CLICK		1
1	QCR500REF	RATCHET BODY 1" DRIVE ASSEMBLY (L873)		1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
: 1/32 .001 .01 : 1/2°
XXX: .005

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1" DR. RATCHET
1000 FTLB

MATERIAL

FINISH

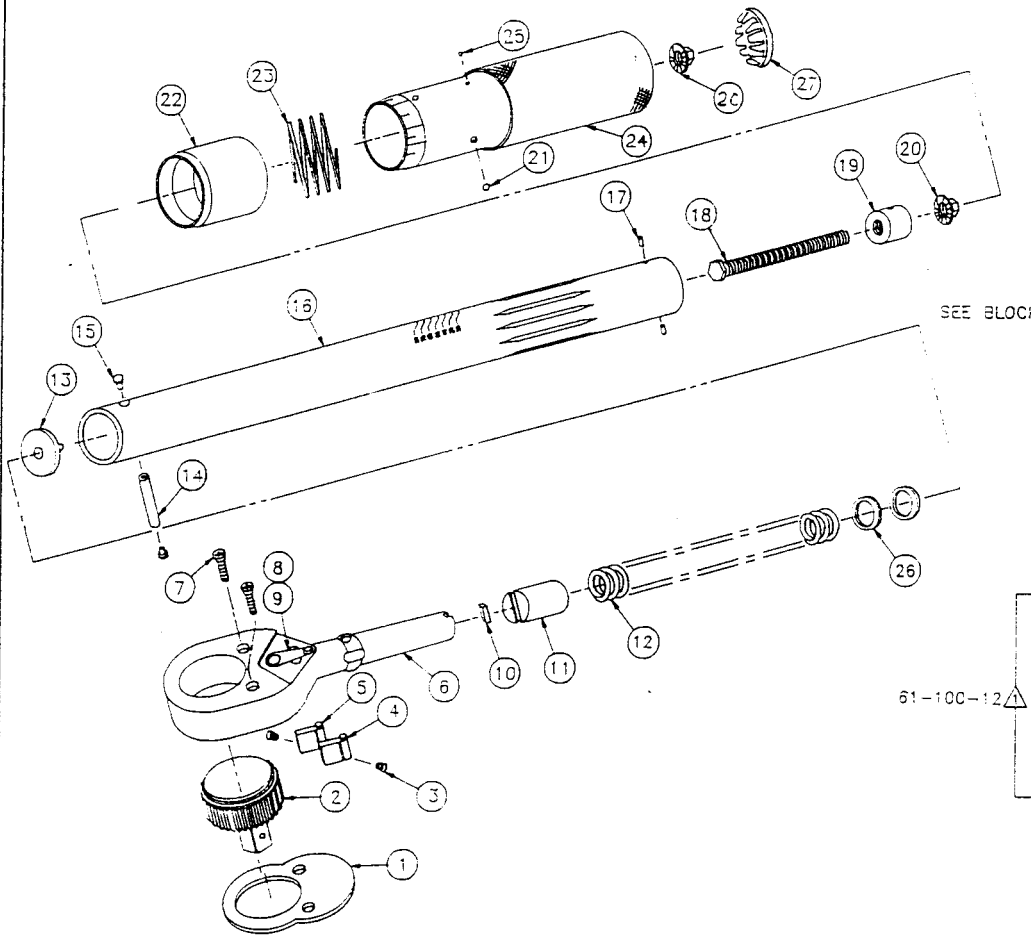
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	06-03-97	S/216-433-1

NOTE: UNCONTROLLED COPY

QCR50000 REF.

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BY	LTP	DESCRIPTION	DATE	APPROVED
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27	10-103-1	BUTTON PLUG	1
26	10-104-2	WASHER, FLAT	AR
25	10-106-1	BALL 3/32	1
24	61-348-2	HANDLE ASSEMBLY	1
23	61-249	SPRING, LOCK RING	1
22	A	LOCK RING	1
21	10-106-8	BALL 1/8	1
20	47-245-2	HEX, FLANGE NUT	2
19	61-241	INSERT, TUBE	1
18	61-142-3	ADJUSTING SCREW	1
17	10-106-5	BALL	2
16	61-254-2	TUBE, (ROLL STAMP)	1
15	61-253	RVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-265	SPRING, TORQUE	2
11	50-16	CAM	1
10	50-18	PAWL	2
9		REVERSING CAM	1
8		REVERSING LEVER	1
7		SCREW	2
6		RATCHET BODY	1
5		DOG-RIGHT	1
4		DOG-LEFT	1
3		SPRING	2
2		RATCHET WHEEL	1
1		PLATE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .005 ±.01 ±1/2°
 .0001 .0005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO.ADJ.WRENCH 1/4 DR. RATCHET
 150 cm.kg

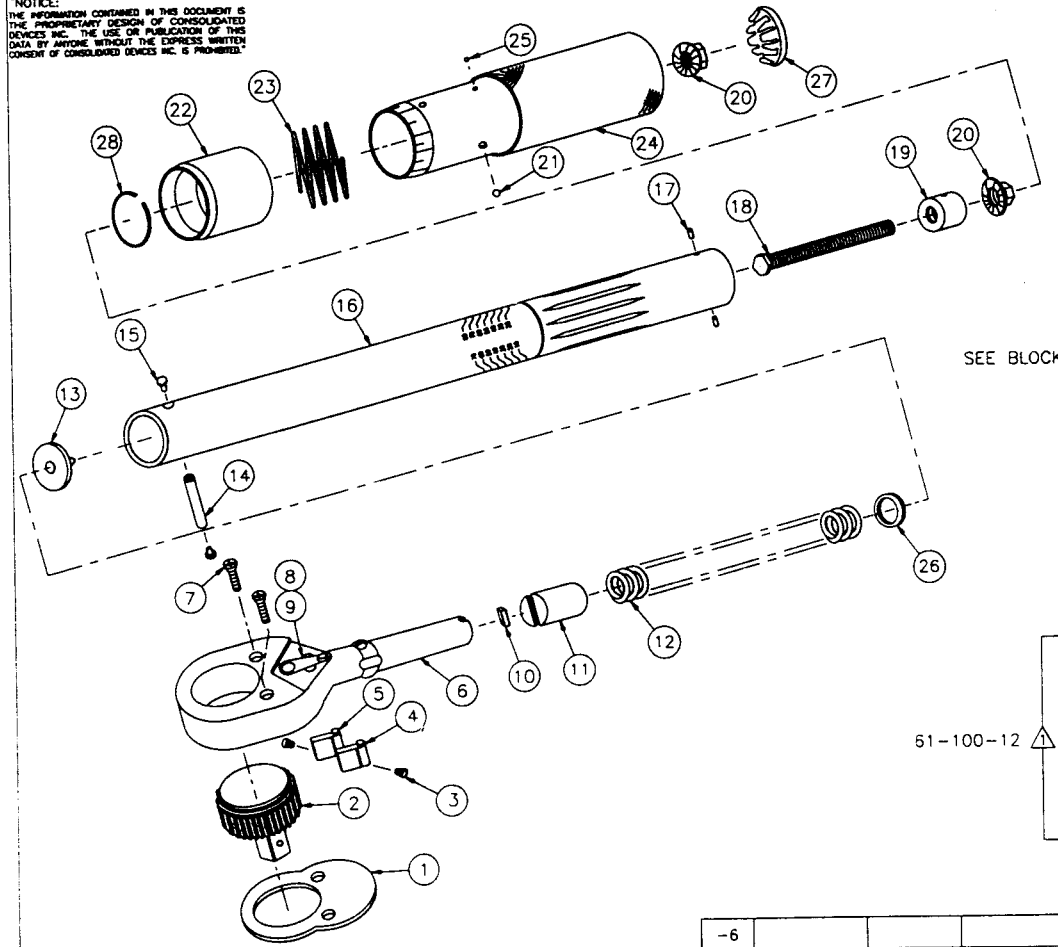
DRAWN	SEP	SCALE	NONE	DRAWING NO.
APPROVED	4-6-95	DATE	707	61-533-TAB

2		
1	61-280-2	OLY 150QLM
TAB #	ITEM 22	CUSTOMER

△ PURCHASED AS ASSEMBLY P/N 61-100-8 AND MODIFIED TO 61-100-12.
 NOTES:

NOTE: UNCONTROLLED COPY

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	REV 18 WRS 61-102-1, REV 28 WRS REV. A/P, AND REV 20, MODEL NO. & REVISION	12-5-96	Jay

29				1
28	47-238-4	SPRING RING		1
27	10-103-1	BUTTON PLUG		1
26	10-104-2	WASHER, FLAT		1
25	10-106-1	BALL 3/32		1
24	61-348-12	HANDLE ASSEMBLY		1
23	61-249	SPRING, LOCK RING		1
22	▲	LOCK RING		1
21	10-106-8	BALL 1/8		1
20	47-245-2	HEX, FLANGE NUT		2
19	61-241	INSERT, TUBE		1
18	61-142-1	ADJUSTING SCREW		1
17	10-106-5	BALL		2
16	61-256-2	TUBE, (ROLL STAMP)		1
15	61-263	RIVET, PIVOT PIN		2
14	61-262	PIN, PIVOT		1
13	50-1	WASHER, THRUST		1
12	61-265	SPRING, TORQUE		1
11	50-16	CAM		1
10	50-18	PAWL		1
9		REVERSING CAM		1
8		REVERSING LEVER		1
7		SCREW		2
6		RATCHET BODY		1
5		DOG-RIGHT		1
4		DOG-LEFT		1
3		SPRING		2
2		RATCHET WHEEL		1
1		PLATE		1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGELS
 :1/32 .XX :.01 :1/2°
 XXXX:005

MATERIAL

FINISH

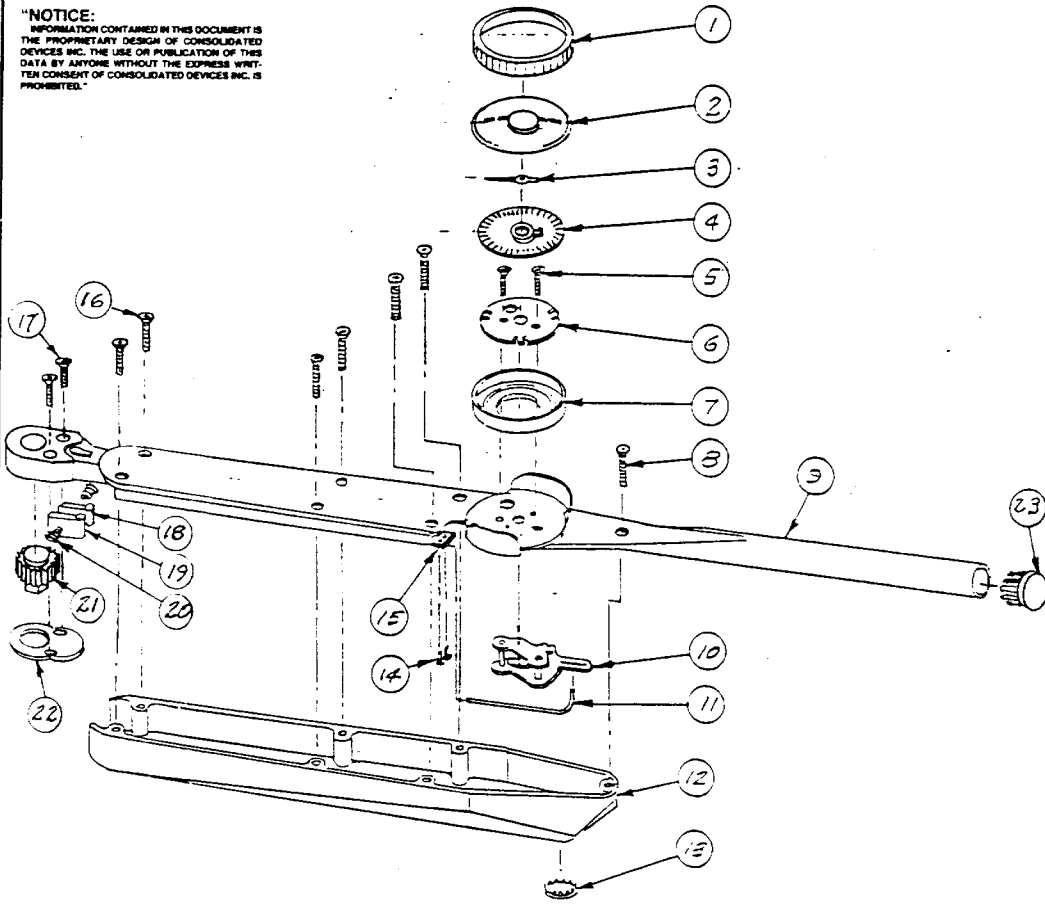
CONSOLIDATED DEVICES, INC.
 City of Industry, California
EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1/4 DR. RATCHET
 200 dNm

DRAWN <i>slj</i>	SCALE NONE	DRAWING NO.
APPROVED <i>Jay</i>	DATE 06-19-95	61-633-TAB

-6			
-5			
-4			
-3			
-2			
-1	61-269-1	CARLSON	2001DNMRMH
TAB NO.	▲	CUSTOMER	MODEL NO.
	ITEM NO. 22		

▲ PURCHASED AS ASSEMBLY P/N 61-100-8 AND MODIFIED TO 61-100-12.
 NOTES:

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1. ITEMS 17 THRU 22 ARE PURCHASED AS COMPLETE ASSY. SEE 265-23.
 NOTE:

TAB NO.	SCALE	RANGE	PROTO NO.
2	0-350 NM 0-250 FT. LB.	0126 NMR	
1	0-250 FT. LB. 0-35 MKG.	0126 2A	

REVISIONS				
BY	LIR	DESCRIPTION	DATE	APPROVED
ZJS	A	ADD ITEM 23	7-21-92	ZJS
ZJS	B	ITEM 8 WAS 10-165-1 ITEM 16 WAS 10-165-2	9/11/92	ZJS

23	10-103-7	BUTTON PLUG	1
22	265-27	PLATE, COVER, RATCHET	1
21	265-26	RATCHET	1
20	265-32	SPRING, CONICAL	2
19	265-30	PAWL, LEFT	1
18	265-31	PAWL, RIGHT	1
17	265-33	SCREEN, COVER	2
16	10-235-1	SCREW, SELF TAPPING - PLATE	6
15	80-12	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACHINE ROUND HD.	2
13	10-103-3	BUTTON PLUG	1
12	265-17-2	CASE	1
11	80-11-1	PUSH ROD	1
10	10-113	MOVEMENT	1
9	48-108-19	HANDLE CHANNEL BEAM & GUARD ASSY.	1
8	10-235-4	SCREW, SELF TAPPING - REAR	1
7	48-33	RING, BEZEL MOUNTING	1
6	49-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACHINE FLAT HEAD	2
4	▲	SCALE 0-250 FT. LB. - 0-350 Nm	1
3	48-18-2	POINTER	1
2	48-132	MEMORY POINTER ASSY.	1
1	48-84	BEZEL	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 ± .01 ± 1/2°
 XXX ± .00

CONSOLIDATED DEVICES, INC.
 City of Industry, California

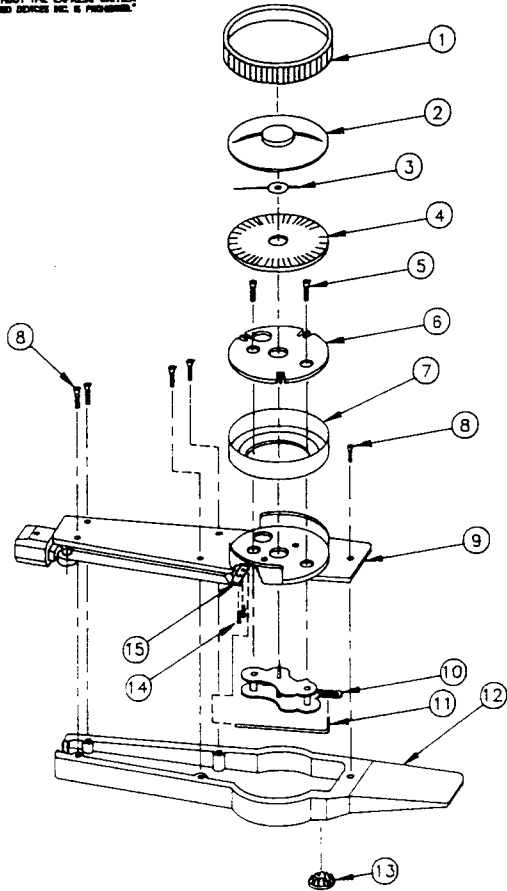
EXPLODED ILLUSTRATION
 DIAL WRENCH (MEMORY) 1/2 DR. RATCH.
 PROTO

DRWN ZJS	SCALE	DRAWING NO.
APPROVED [Signature]	DATE 3/25/88	268-34-TAB

11 BISHOP GRAPHICS/ACCOMPRESS
 RECORDER NO. A20411

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BY	LTR	DESCRIPTION	DATE	APPROVED
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16			
15	40-145	CLAMP, PUSH ROD	1
14	10-110-1	SCREW, MACH. ROUND HEAD	2
13	10-103-2	BUTTON PLUG	1
12	230-240-7	CASE	1
11	80-11-3	PUSH ROD	1
10	10-113	MOVEMENT	1
9	△	DRIVE, PLATE & GUARD ASSEMBLY	1
8	10-222-6	SCREW, SELF TAPPING - REAR	5
7	48-83	RING, BEZEL MOUNTING	1
6	40-82	PLATE, DIAL MOUNTING	1
5	10-109-3	SCREW, MACH. FLAT HEAD	2
4	△	SCALE	1
3	48-18-1	POINTER	1
2	48-132	MEMORY POINTER ASSEMBLY	1
1	48-84	BEZEL	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .01 ±.01 ±1/2°
 .0002 .005

CONSIDERED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 DIAL WRENCH 1/4 DR. (MEMORY)
 INTERCHANGABLE DRIVE 0-9 Nm
 0-17.5 Nm

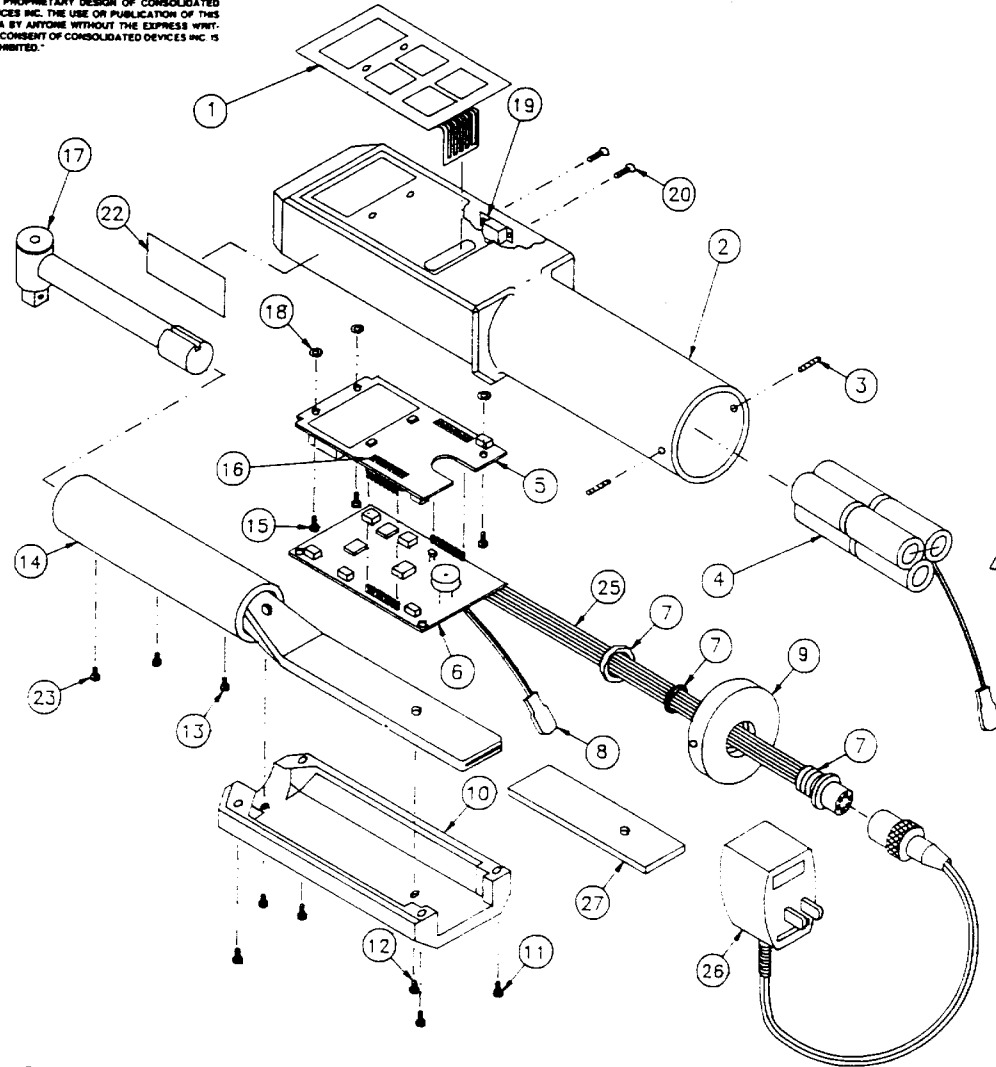
2	48-108-60	238-212-57	0-17.5 Nm	HOFFMANN 85 581 Cr.1.75
1	48-108-59	238-210-57	0-9 Nm	HOFFMANN 85 581 Cr.0.9
TAB NO.	△	△ SCALE	RANGE	CUSTOMER

NOTES:

NOTE: UNCONTROLLED COPY

FINISH	DRASH B.F.	SCALE NONE	DRAWING NO.
	APPROVED <i>Joc</i>	DATE 5-28-46	374-161-TAB

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1. IF NECESSARY CUT SCREWS TO .42 LENGTH.
NOTES:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
A	sg	ITEM 1 WAS 1100-27	1-13-94	jay

27	1100-140	COVER PAD	1
26	1100-7	AC ADAPTER	1
25	2000-100-36	RIBBON CABLE (10 IN.)	1
24			
23	10-225-11	BUTTON HEAD SOCKET CAP SCREW (10-24 X 1/2)	2
22	1100-116	LABEL	1
21			
20	10-109-17	FLAT HEAD MAC. SCREW (2-56 X 3/16) SLOTTED	2
19	1100-20	SWITCH	1
18	10-205-3	WASHER (NYLON) 4-40	3
17	1100-210-7	SENSOR BEAM & HEAD ASSEMBLY	1
16	1100-105-2	NYLON STRIP	2
15	10-225-18	BUTTON HEAD SOCKET CAP SCREW (4-40 X 1/4)	3
14	1100-210-5	TUBE & SLEEVE ASSEMBLY	1
13	10-225-14	BUTTON HEAD SOCKET CAP SCREW (6-32 X 1/4)	1
12	10-128-22	HEX. SOCKET FLAT HEAD SCREW (6-32 X 1/2)	2
11	10-225-12	BUTTON HEAD SOCKET CAP SCREW (8-32 X 1/2)	4
10	1100-118-2	COVER (PRINTED)	1
9	1100-22	RETAINER, RECEPTACLE	1
8	81-37	BATTERY PLUG	1
7	1100-77	FEMALE RECEPTACLE, NUT & WASHER	1
6	1100-52-1	PC BOARD ASSEMBLY, ANALOG MITUTOYO	1
5	1100-24-1	PC BOARD ASSEMBLY, DIGITAL MITUTOYO	1
4	1100-5	BATTERY PACK	1
3	10-101-44	SOCKET SET SCREW (4-40 X 5/16 LONG)	2
2	1100-15-2	HOUSING	1
1	1100-31	DISPLAY BOARD (MITUTOYO) KEYPAD	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 XX ± .01 ± 15°
 XXX ± .005

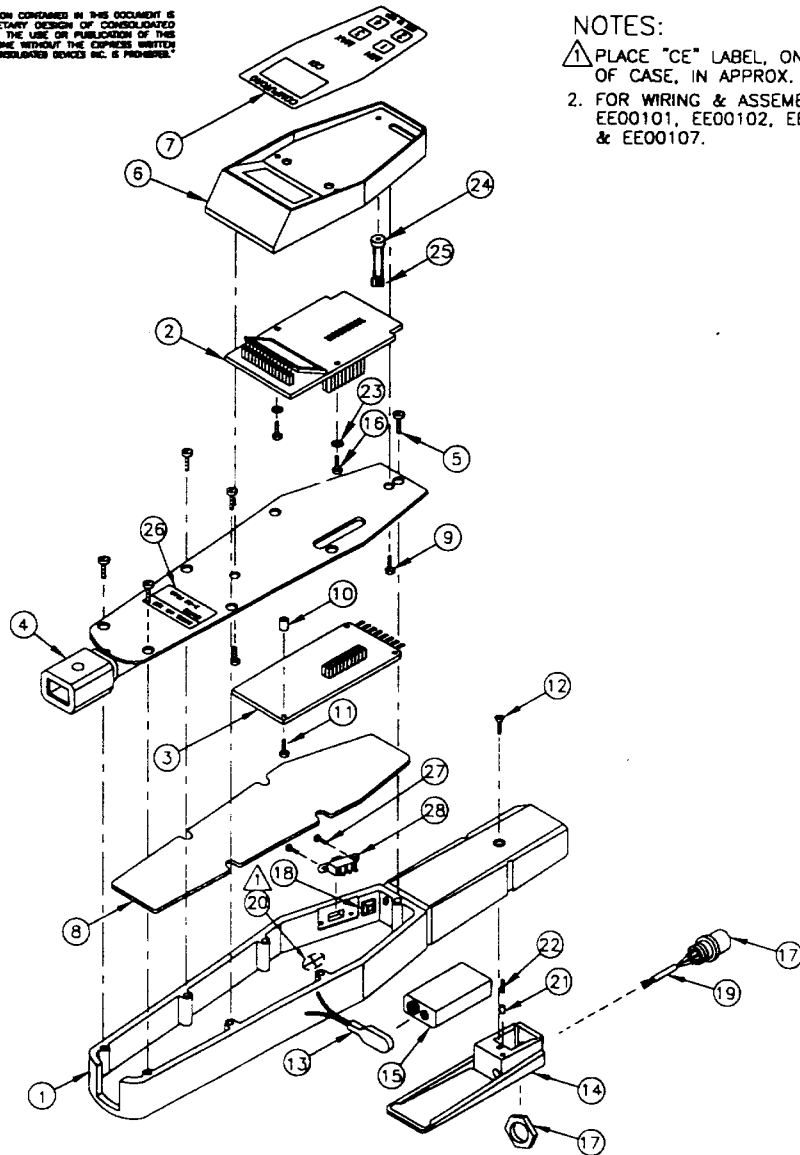
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION			
600 FT.LB. PET			
SERIES 1100		MITUTOYO	
DRAWN <i>sg</i>		SCALE NONE	
DRAWING NO. 1100-0-12		DATE 1-3-94	
APPROVED <i>jay</i>		DATE 1-3-94	

6004-F-PET-M

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- NOTES:
 1. PLACE "CE" LABEL, ON OUTSIDE OF CASE, IN APPROX. LOCATION.
 2. FOR WIRING & ASSEMBLY USE EE00101, EE00102, EE00103, EE00104 & EE00107.



BY	LTR	DESCRIPTION	DATE	APPROVED
JG	C	ADDED NOTE 2.	11-30-98	Jay

28	1100-20	SWITCH	1
27	10-109-17	FLAT HEAD MACHINE SCREW	2
26	1300-50-1	MODEL NO. LABEL	1
25	344-16-1	PCB CONNECTOR	1
24	81-28	BUZZER	1
23	10-205-3	WASHER, NYLON	2
22	10-101-29	SOCKET SET SCREW 8-32 X 1/4	1
21	42-6	PLUG	1
20	950-99	CE LABEL	1
19	82-24-2	CABLE	1
18	44-9	MOUNTING DEVICE	1
17	1100-77	RECEPTACLE WITH NUT & WASHER	1
16	10-126-18	PAN HEAD MACHINE SCREW 4-40 X 3/16	2
15	81-6	BATTERY 9V	1
14	1300-42-4	COVER, BATTERY	1
13	81-37	BATTERY PLUG	1
12	10-109-24	FLAT HEAD MACHINE SCREW 10-32 X 3/4	1
11	10-126-7	PAN HEAD MACHINE SCREW 4-40 X 1/2	1
10	1300-4-2	SPACER, 5/16 LONG.	1
9	10-225-9	BUTTON HEAD SOCKET CAP SCREW 8-32 NC X 5/16	2
8	41-50	INSULATION	1
7	1300-133-6	KEY PAD	1
6	1300-1	HOUSING	1
5	10-222-1	SCREW, TAPPING 10-24 X 1/2	5
4	1300-42-53	BEAM, PLATE, WIRING ASSEMBLY (STRAIN GAGE)	1
3	1300-101	PC BOARD-ANALOG ASSEMBLY	1
2	1300-111	PC BOARD-DIGITAL ASSEMBLY	1
1	1300-42-25	CASE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGELS
 1/32 .01 .1/2°
 .002 .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

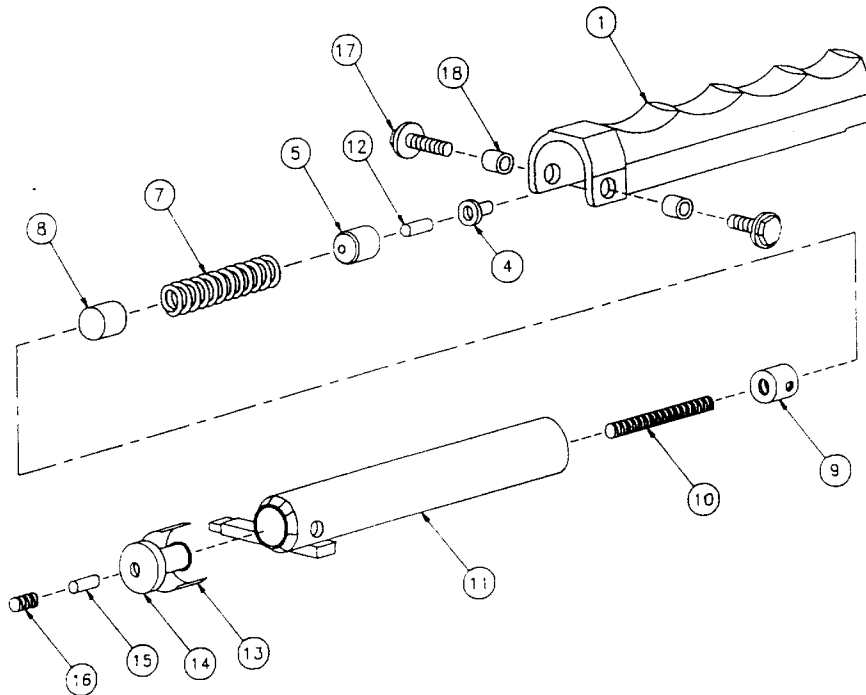
EXPLODED ILLUSTRATION
 COMPUTORQ II
 RANGE 50 Nm

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	12-21-95	1300-42-9

NOTE: UNCONTROLLED COPY

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BY	LTR	DESCRIPTION	DATE	APPROVED
del	G	REDRAWN FOR CLARITY - NO CHANGE	1-12-96	<i>[Signature]</i>



DASH	ITEM	PART NO.	DESCRIPTION	REQ'D
-1,2,3	18	25-57	SLEEVE	2
-1,2,3	17	10-202-2	HEX WASHER, HEAD SCREW	2
-1,2,3	16	10-101-33	SETSCREW, SOCKET	1
-1,2,3	15	25-47	PIN, LOCK	1
-1,2,3	14	25-7	SLEEVE	1
-3	13	25-48-3	LABEL, SLEEVE	1
-2	13	25-48-2	LABEL, SLEEVE	1
-1	13	25-48-1	LABEL, SLEEVE	1
-2,3	12	25-6-3	PAWL	1
-1	12	25-6-3	PAWL	1
-1,2,3	11	△	TUBE & DRIVE ASSEMBLY	1
-1,2,3	10	10-101-24	SETSCREW, SOCKET	1
-1,2,3	9	25-15	PLUG	1
-1,2,3	8	25-8	WASHER, THRUST	1
-1,2,3	7	25-13	SPRING, TORQUE	1
-1,2,3	5	25-4	CAM	1
-1,2,3	4	25-5	SUPPORT, PAWL	1
	3			
	2			
-1,2,3	1	△	PLATE & HANDLE ASSEMBLY	1

3. ITEMS 10,13,14,15 & 16 CAN BE ASSEMBLED AS P/N 25-51.

- △ USE PART No. 25-31-2 FOR 1/4 SQ. DRIVE.
- △ USE PART No. 25-34-2 FOR 1/4 HEX. DRIVE.
- △ USE PART No. 25-45-2 FOR 5/16 HEX. DRIVE.

- △ USE PART No. 25-52-1 FOR GREY COLOR.
- △ USE PART No. 25-52-2 FOR BLACK COLOR.
- △ USE PART No. 25-52-3 FOR BLUE COLOR.
- △ USE PART No. 25-52-4 FOR RED COLOR.
- △ USE PART No. 25-52-5 FOR MEDIUM GREEN COLOR.

-3	10-100 dNm
-2	10-100 IN.LB.
-1	10-100 CMKG.
DASH No.	RANGE

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 ±0.01 ±1/2°
 ±0.002 ±0.005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 TORQY
 MICRO. ADJUSTABLE

DRAWN *WJG* SCALE NONE DRAWING NO.
 APPROVED *WJG* DATE 11-21-77 25-49-TAB

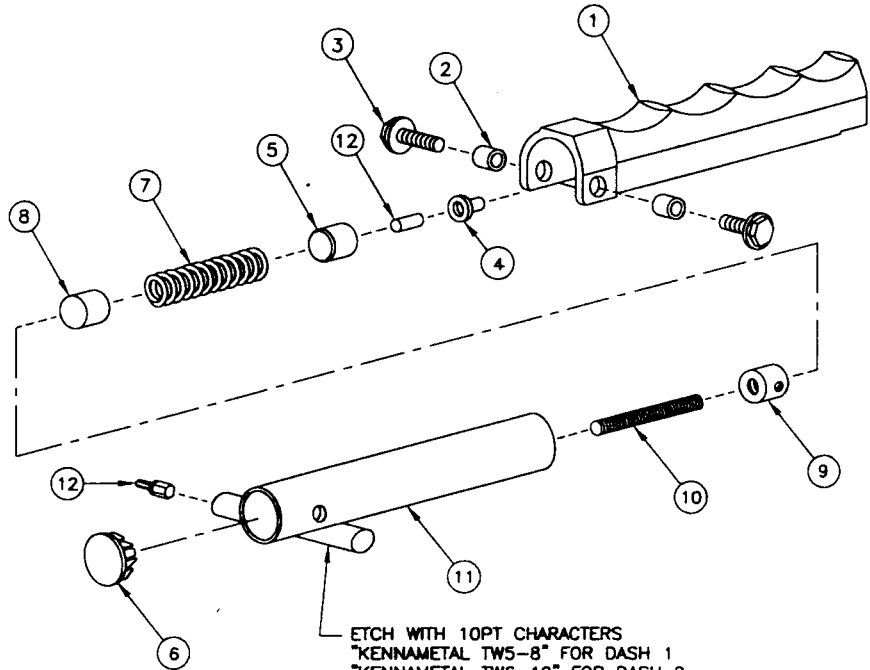
NOTES:

NOTE: UNCONTROLLED COPY

1001T CM... 1001TA 11001TA CM 1001TA

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	F	ADD ETCHING NOTE	6-14-99	<i>[Signature]</i>



ETCH WITH 10PT CHARACTERS
 "KENNAMETAL TW5-8" FOR DASH 1
 "KENNAMETAL TW6-10" FOR DASH 2

DASH 2

CODE IDENT.	PART NO.	DESCRIPTION	SET AT
12	30-136-2	HEX. BIT (5/16 TO 6mm)	TW6-10
1	25-70-2	PLATE & HANDLE ASSEMBLY (BLACK)	120 IN.LB.

KENNAMETAL TW6-10

DASH 1

CODE IDENT.	PART NO.	DESCRIPTION	SET AT
12	30-136-1	HEX. BIT (5/16 TO 5mm)	TW5-8
1	25-70-1	PLATE & HANDLE ASSEMBLY (YELLOW)	96 IN.LB.

KENNAMETAL TW5-8

NOTES:

ITEM	PART NO.	DESCRIPTION	REQ'D
12	△	HEX BIT	1
11	25-41	TUBE & HEX. ADAPTER ASSEMBLY	1
10	10-101-10	SETSCREW, SOCKET	1
9	25-15	PLUG	1
8	25-8	WASHER, THRUST	1
7	25-13	SPRING, TORQUE	1
6	10-103-1	BUTTON PLUG	1
5	25-4	CAM	1
4	25-5	SUPPORT PAWL	1
3	10-202-1	HEX WASHER, HEAD SCREW	2
2	25-57	SLEEVE	2
1	△	PLATE & HANDLE ASSEMBLY	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 : 1/32 .001 .01 : 1/2°
 .0005 .002

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 TORKY-PRESET KENNAMETAL

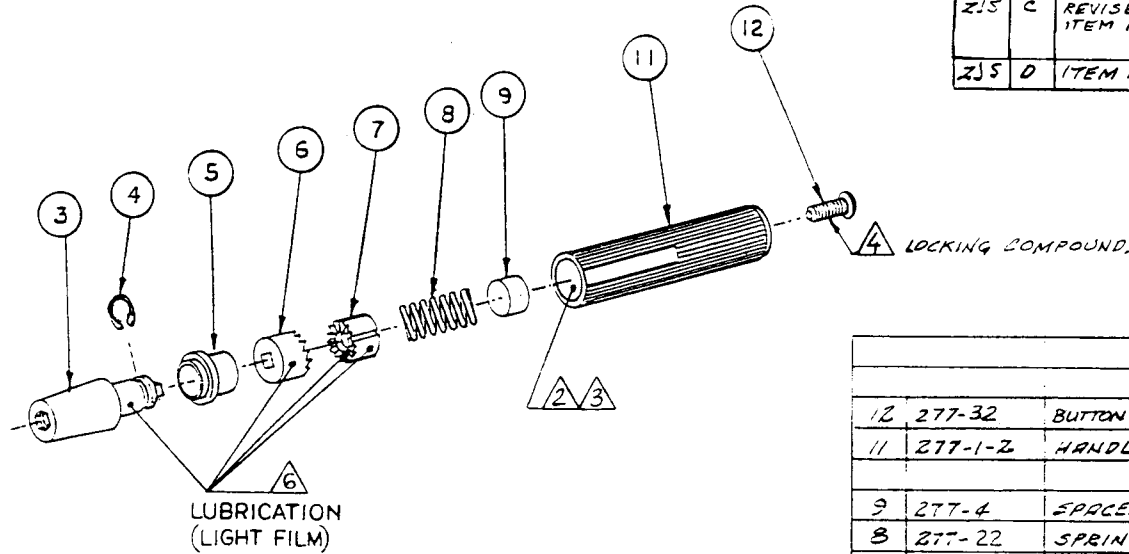
MATERIAL
 FINISH

DRAWN <i>js</i>	SCALE NONE	DRAWING NO.
APPROVED <i>js</i>	DATE 01-02-90	25-69-TAB

NOTE: UNCONTROLLED COPY

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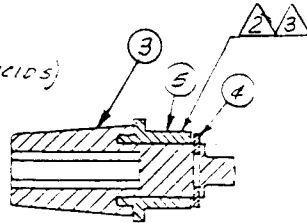
REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
JK	A	ITEM 4 WAS 277-18-2	9/29/82.	<i>[Signature]</i>
ZJS	B	ADD NOTE 3#, DEGREASE TO NOTE 2	12/15/82.	<i>[Signature]</i>
ZJS	C	REVISED NOTE 2, ADD NOTES 3, 4 ITEM 12 WAS 10-101-11, ADD	6/5/90.	<i>[Signature]</i>
ZJS	D	ITEM 11 WAS 277-21-2	7/26/90.	<i>[Signature]</i>



△ APPLY GENERAL PURPOSE GREASE (NO ACIDS) IN THE MARKED AREA. REF. MOBIL EP 203.

△ DO NOT APPLY TORQUE AFTER ADHESIVE BONDING FOR A MIN. OF 12 HRS.

△ FOR SPECIFICATION AND APPLICATION OF SELF LOCKING COMPOUND SEE DWG. 277-33



△ APPLY CEMENT EVENLY (DWG. 277-34-2)

△ DEGREASE BONDING AREAS WITH CLEANER (DWG. 277-35)

1. ASSEMBLE ITEMS 3 THRU 5 AS SHOWN BEFORE FINAL ASSY.

NOTES:

12	277-32	BUTTON HEAD SOCKET CAP SCREW (8-32 X .590)	/
11	277-1-2	HANDLE (BLACK)	/
9	277-4	SPACER	/
8	277-22	SPRING	/
7	277-12-1	RATCHET, REAR	/
6	277-12-2	RATCHET, FRONT	/
5	277-2-2	SLEEVE, SHAFT (BLACK)	/
4	277-17-2	CRESCENT RET. RING	/
3	277-33-2	SHAFT DRIVE (BLACK)	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES
 = 1/32 XX = .1 = 14°
 XXX = .005

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
 SCREWDRIVER, MINIATURE (BLACK)
 4 IN. LB. MAX

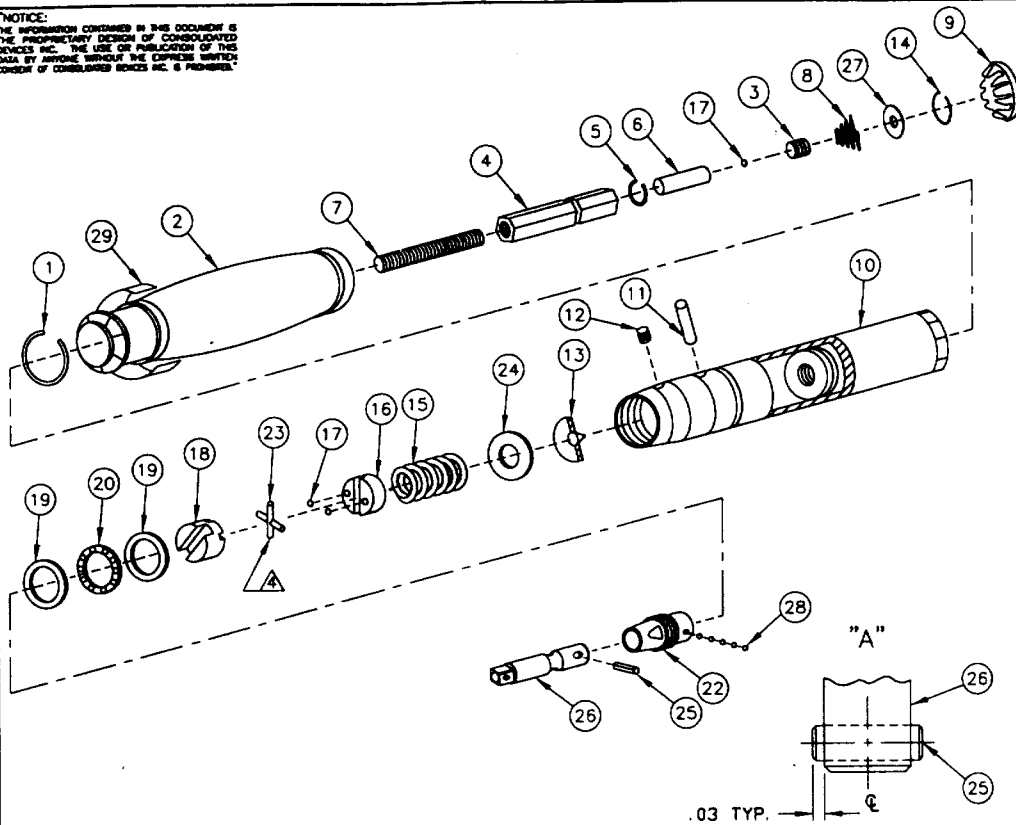
MATERIAL

FINISH

DRAWN ZJS SCALE — DRAWING NO.
 APPROVED [Signature] DATE 9/10/82.

277-200

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-4				
-3				
-2	275-236-7	275-66	275-258	500 Ncm
-1	275-236-6	275-41	275-257	100 Ncm
TAB NO.	ITEM NO. 10	ITEM NO. 15	ITEM NO. 29	RANGE

- ▲ APPLY SMALL AMOUNT OF RTV SEALANT 739 (DOW CORNING) TO CONNECT ITEMS 24 TOGETHER. CURE FOR 24 HOURS.
- ▲ AFTER ASSEMBLY ITEM 25 TO BE SYMMETRICALLY LOCATED TO ITEM 26, SEE DETAIL "A".
- ▲ ITEM 10 IS CLEAR ANODIZE.
- ▲ ITEMS 3 THRU 7 MAY BE FURNISHED AS ONE COMPLETE ASSEMBLY, PART NO. 275-47-2.

NOTES:

NOTE: UNCONTROLLED COPY

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	D	ITEM 27 WAS 45-148	4-29-77	Jay

31			
30			
29	▲	LABEL, HANDLE	1
28	10-106-2	BALL SPHERICAL	5
27	275-226	WASHER SPRING RETAINER	1
26	275-64	SHAFT 1/4 SQ. DR.	1
25	10-107-35	SPRING PIN	1
24	10-104-1	WASHER, FLAT	1
23	275-110	PIN NEEDLE ROLLER	2
22	275-22	BUSHING	1
21			
20	275-14	THRUST RETAINER	1
19	275-33	THRUST WASHER	2
18	275-51	CAM	1
17	10-106-6	BALL SPHERICAL	3
16	275-65	CAM, SECONDARY	1
15	▲	SPRING, TORQUE	1
14	45-137	CLIP, HEX RETAINING	1
13	30-8	THRUST WASHER, PRESET	1
12	10-101-26	SOCKET SETSCREW	1
11	275-100	PIN, SECONDARY CAM	1
▲ 10	▲	TUBE, ROLL STAMPING	1
9	10-103-3	BUTTON PLUG	1
8	275-222	SPRING, HEX RETAINER	1
▲ 7	10-101-9	SOCKET SETSCREW	1
▲ 6	45-6-3	PIN, LOCK HEX	1
▲ 5	45-2	CLIP, SPRING HEX BAR	1
▲ 4	275-13-2	BAR, HEX, INTERNAL ADJUSTING	1
▲ 3	10-101-7	SOCKET SETSCREW	1
2	275-190	HANDLE (PLASTIC)	1
1	275-85	CLIP, HANDLE	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 .XX ± .01 ± 1/2°
 .XXX ± .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 TORQUE SCREWDRIVER, MICRO ADJ.
 1/4" SQUARE DRIVE
 HOFFMANN

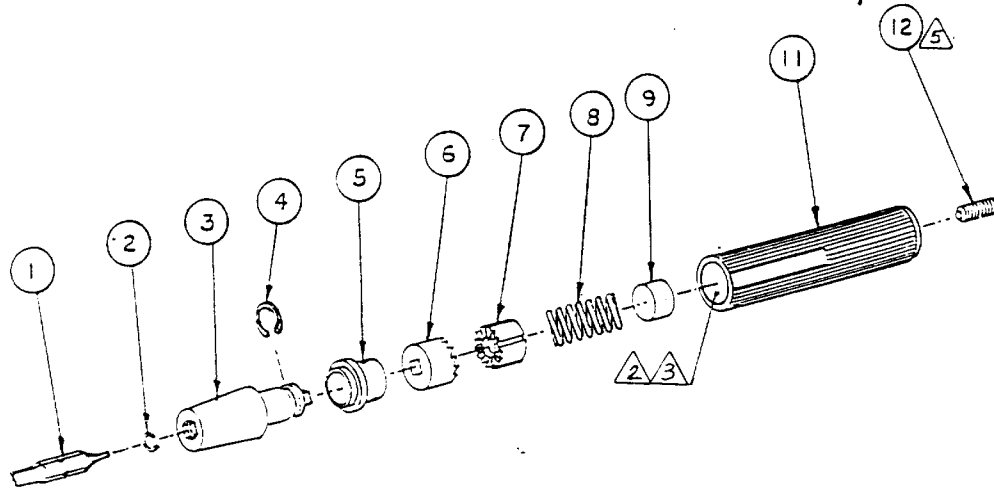
500 Ncm
 100 Ncm

DRAWN A.M.V. SCALE NONE
 APPROVED Jay DATE 07-01-96

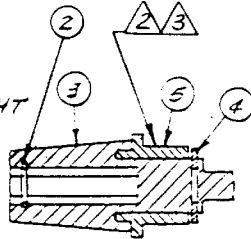
DRAWING NO.
 275-339-TAB

500Ncm

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6. THE BIT SHALL REMAIN IN THE HANDLE
 WHEN THE ASSY. IS HELD BY THE BIT,
 VERTICALLY DOWN WITH A ONE (1) LB. WEIGHT
 ATTACHED TO THE HANDLE. THE BIT
 SHALL SLIP OUT OF THE HANDLE WHEN
 TESTED SIMILARLY WITH A THREE (3)
 LB. WEIGHT ATTACHED TO THE
 HANDLE.



5. EPOXY SET SCREW IN PLACE AFTER FINAL CALIBRATION.

4. DO NOT APPLY TORQUE AFTER ADHESIVE
 BONDING FOR A MIN. OF 12 HRS.

3. APPLY CEMENT EVENLY (DWG. 277-34-1)

2. DEGREASE BONDING AREAS WITH CLEANER (DWG. 277-35)

1. ASSEMBLE ITEMS 2 THRU 5 AS SHOWN,
 BEFORE FINAL ASSEMBLY

NOTED:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
JK	A	ADD NOTE 4	12/13/88	[Signature]
ZJS	B	ITEM 12 WAS 277-20-1, ITEM 11 WAS 277-21-1	3/3/90	[Signature]
ZJS	C	REMOVED PHASE OUT NOTE, REM. DASH 1 & 2 BLOCK, REVISE NOTE 2 3 & 4	6/5/90	[Signature]
ZJS	D	ITEM 11 WAS 277-14	9/26/90	[Signature]
ZJS	E	ADD NOTE 5 & 6	10/25/90	[Signature]

12	277-20	SOCKET SET SCREW (3-32 X .500)	1
11	277-1-1	HANDLE (WHITE)	1
9	277-4	SPACER	1
8	277-19	SPRING	1
7	277-12-1	RATCHET, REAR	1
6	277-12-2	RATCHET, FRONT	1
5	277-2-1	SLEEVE, SHAFT. (WHITE)	1
4	277-17-1	CRESCENT, RET. RING (STAINLESS STEEL)	1
3	277-23-1	SHAFT DRIVE (WHITE)	1
2	277-24	SPRING CLIP	1
1	277-11	BIT (STAINLESS STEEL)	1

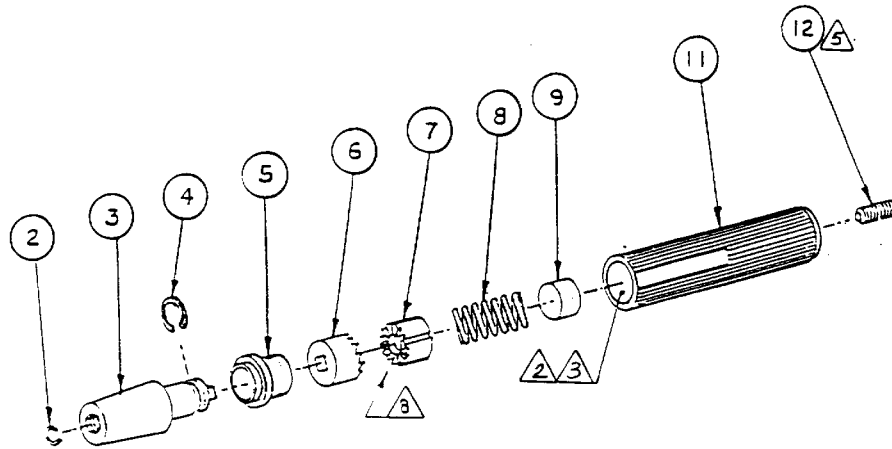
CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±.12 XX ±.01 ± 1/2° XXX ±.005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION SCREWDRIVER, MINIATURE	
FINISH		3/16 HEX. BIT VENTRITEX 1.2 IN. LB	
DRAWN Z.J.S.		SCALE	DRAWING NO.
APPROVED [Signature]		DATE 9/19/88	277-100

3/16 HEX BIT

VENTRITEX

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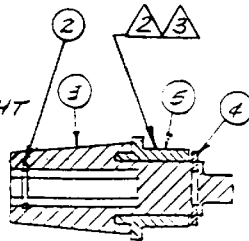
REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SS	A	REMOVED ITEM 1	1-4-94	jay
JL	B	ADD NOTE 7	7-14-94	jay
A.M.V.	C	ADD NOTE 8; NOTE 3 WAS: APPLY CEMENT EVENLY (DWG. 277-34-1)	10-12-95	jay



8. APPLY SYNTHETIC LUBRICANT TO THE RATCHET & TO THE RIBS ON THE ITEM 11.

7. SET TORQUE: $14.1 \pm .5 \text{ Ncm}$

6. THE BIT SHALL REMAIN IN THE HANDLE WHEN THE ASSY. IS HELD BY THE BIT, VERTICALLY DOWN WITH A ONE (1) LB. WEIGHT ATTACHED TO THE HANDLE. THE BIT SHALL SLIP OUT OF THE HANDLE WHEN TESTED SIMILARLY WITH A THREE (3) LB. WEIGHT ATTACHED TO THE HANDLE.



5. EPOXY SET SCREW IN PLACE AFTER FINAL CALIBRATION.

4. DO NOT APPLY TORQUE AFTER ADHESIVE BONDING FOR A MIN. OF 12 HRS.

3. USE INSTANT ADHESIVE LOCTITE 401.

2. DEGREASE BONDING AREAS WITH CLEANER (DWG 277-35)

1. ASSEMBLE ITEMS 2 THRU 5 AS SHOWN, BEFORE FINAL ASSEMBLY

NOTES:

12	277-20	SOCKET SET SCREW (3-32X.500)	/
11	277-12-1	HANDLE (WHITE) STAMPED	/
9	277-4	SPACER	/
8	277-19	SPRING	/
7	277-12-1	RATCHET, REAR	/
6	277-12-2	RATCHET, FRONT	/
5	277-2-1	SLEEVE, SHAF. (WHITE)	/
4	277-17-1	CRESCENT, RET. RING (STAINLESS STEEL)	/
3	277-23-1	SHAFT DRIVE (WHITE)	/
2	277-24	SPRING, CLIP	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .XX ± .01 = 4°
 .XXX = .005

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
 SCREWDRIVER, MINIATURE

3/16 HEX. BIT 10 Ncm VIDENT

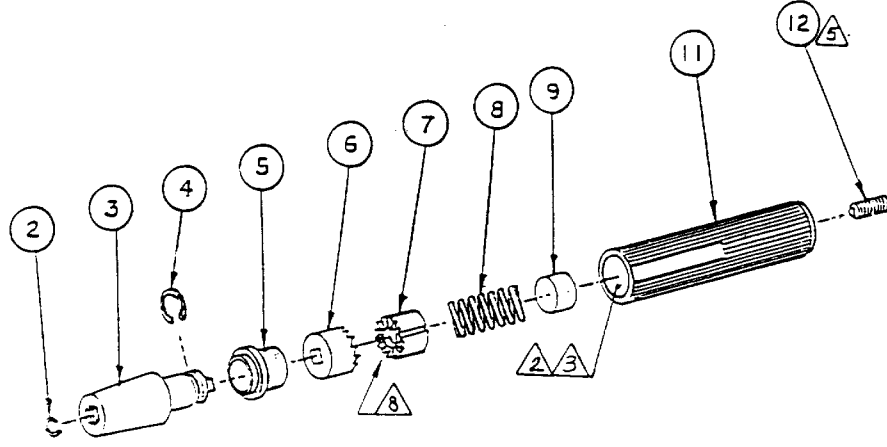
MATERIAL

FINISH

DRAWN Z.V.S.	SCALE —	DRAWING NO. 277-110
APPROVED jay	DATE 11-22-93	

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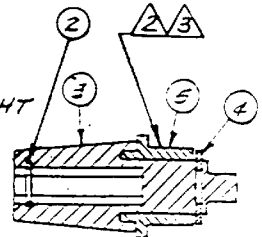
REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SQ	A	REMOVED ITEM 1	1-4-94	207
JR	B	ADD NOTE 7	7-14-94	207
A.M.V.	C	ADD NOTE 5, NOTE 3 WAS: APPLY CEMENT EVENLY (DWC. 277-34-1)	10-12-95	207
RR	D	CHANGED NOTE 5.	7-9-99	207



8 APPLY SYNTHETIC LUBRICANT TO THE RATCHET AND TO THE RIBS ON THE ITEM 11.

7. SET TORQUE : $10 \pm .5$ Ncm

6. THE BIT SHALL REMAIN IN THE HANDLE WHEN THE ASSY. IS HELD BY THE BIT, VERTICALLY DOWN WITH A ONE (1) LB. WEIGHT ATTACHED TO THE HANDLE. THE BIT SHALL SLIP OUT OF THE HANDLE WHEN TESTED SIMILARLY WITH A THREE (3) LB. WEIGHT ATTACHED TO THE HANDLE.



5. ITEM 12 MUST BE 277-20 REV B OR HIGHER (WITH NYLON PATCH ON FULL LENGTH)

4. DO NOT APPLY TORQUE AFTER ADHESIVE BONDING FOR A MIN. OF 12 HRS.

3. USE INSTANT ADHESIVE LOCTITE 401.

2. DEGREASE BONDING AREAS WITH CLEANER (DWC 277-35)

1. ASSEMBLE ITEMS 2 THRU 5 AS SHOWN, BEFORE FINAL ASSEMBLY

NOTES:

12	277-20	SOCKET SET SCREW (8-32X.500)	/
11	277-123-1	HANDLE (BLACK) STAMPED	/
9	277-4	SPACER	/
8	277-19	SPRING	/
7	277-12-1	RATCHET, REAR	/
6	277-12-2	RATCHET, FRONT	/
5	277-2-2	SLEEVE, SHAF. (BLACK)	/
4	277-17-1	CRESCENT, RET. RING (STAINLESS STEEL)	/
3	277-23-1	SHAFT DRIVE (WHITE)	/
2	277-24	SPRING CLIP	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION SCREWDRIVER, MINIATURE			
3/16 HEX. BIT Lab 10 Ncm - VIDENT			
DRAWN Z.J.S.		SCALE —	DRAWING NO. 277-111
APPROVED 207		DATE 12-14-93	

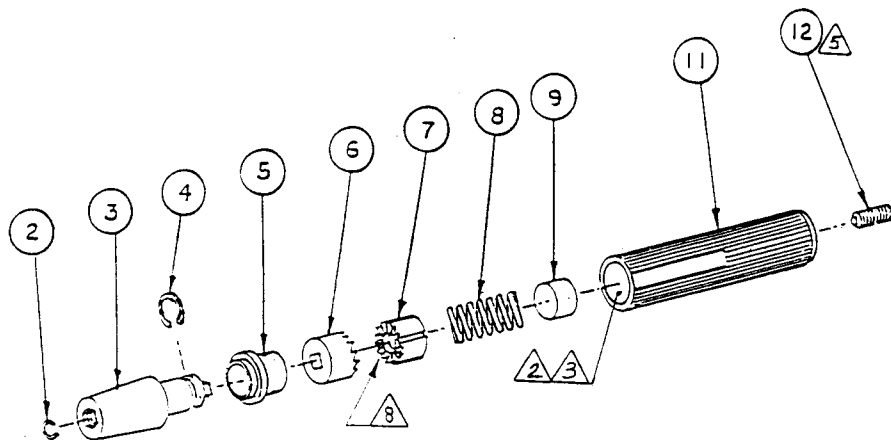
315HOP 74PMS/ACQUHRESS
 1ECPGR NO. 22441

NOTE: UNCONTROLLED COPY

VIDENT P/N 81101
 3/16 HEX BIT

VIDENT

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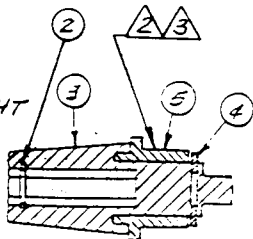


9. PRELOAD SPRINGS 5 TIMES TO SOLID HEIGHT BEFORE ASSEMBLY.

8. APPLY SYNTHETIC LUBRICANT TO THE RATCHET AND TO THE RIBS ON THE ITEM 11.

7. SET TORQUE: $27.75 \pm .75$ NCM

6. THE BIT SHALL REMAIN IN THE HANDLE WHEN THE ASSY. IS HELD BY THE BIT, VERTICALLY DOWN WITH A ONE (1) LB. WEIGHT ATTACHED TO THE HANDLE. THE BIT SHALL SLIP OUT OF THE HANDLE WHEN TESTED SIMILARLY WITH A THREE (3) LB. WEIGHT ATTACHED TO THE HANDLE.



5. ITEM 12 MUST BE 277-20 REV B OR HIGHER (NYLON PATCH ON FULL LENGTH)

4. DO NOT APPLY TORQUE AFTER ADHESIVE BONDING FOR A MIN. OF 12 HRS. USE INSTANT ADHESIVE LOCTITE 401.

3. USE INSTANT ADHESIVE LOCTITE 401.

2. DEGREASE BONDING AREAS WITH CLEANER (DWG 277-35)

1. ASSEMBLE ITEMS 2 THRU 5 AS SHOWN, BEFORE FINAL ASSEMBLY

NOTES:

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
JK	A	ITEM 8 WAS 277-19	12-10-93	Joy
SQ	B	REMOVED ITEM 1	1-4-94	Joy
JK	C	ITEM 9 WAS 1 REQD	7-1-94	Joy
JK	D	ADD NOTE 7	7-16-94	Joy
A.M.V.	E	ADD NOTE 8, NOTE 3 WAS: APPLY CEMENT EVENLY (DWG. 277-34-1).	10-12-95	Joy
RR	F	CHANGED NOTE 8.	7-9-99	Joy
RR	G	ADD NOTE 9.	8-23-99	Joy

12	277-20	SOCKET SET SCREW (8-32 X .500)	/
11	277-122-2	HANDLE (WHITE) STAMPED	/
9	277-4	SPACER	2
8	277-132-1	SPRING	/
7	277-12-1	RATCHET, REAR	/
6	277-12-2	RATCHET, FRONT	/
5	277-2-1	SLEEVE, SHAFT. (WHITE)	/
4	277-17-1	CRESCENT, RET. RING (STAINLESS STEEL)	/
3	277-23-1	SHAFT DRIVE (WHITE)	/
2	277-24	SPRING, CLIP	/
1			

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 $\pm 1/32$ $\pm .01$ $\pm 4^\circ$
 HOLE $\pm .005$

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
 SCREWDRIVER, MINIATURE

3/16 HEX. BIT

20 Nem VIDENT

MATERIAL

FINISH

DRAWN Z.J.S.

SCALE

DRAWING NO.

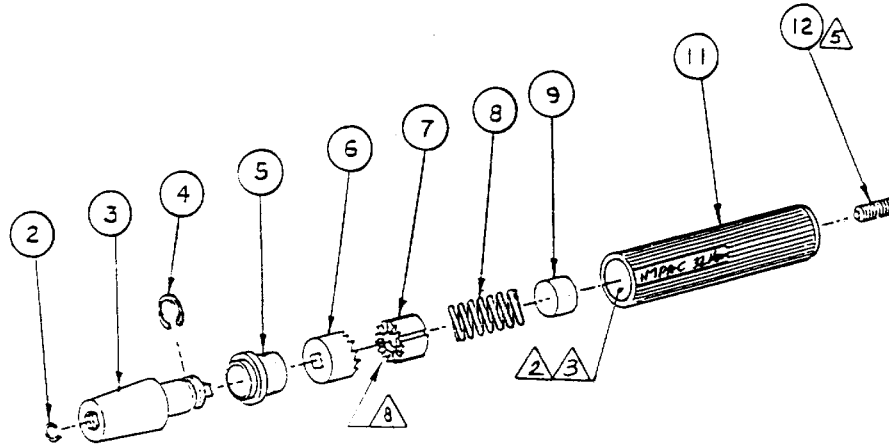
APPROVED Joy

DATE 11-26-93

277-120

NOTICE:

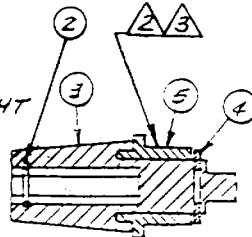
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A APPLY SYNTHETIC LUBRICANT TO THE RATCHET AND TO THE RIBS ON THE ITEM 11.

7. SET TORQUE : 47 ± 1.4 Ncm

6. THE BIT SHALL REMAIN IN THE HANDLE WHEN THE ASSY. IS HELD BY THE BIT, VERTICALLY DOWN WITH A ONE (1) LB. WEIGHT ATTACHED TO THE HANDLE. THE BIT SHALL SLIP OUT OF THE HANDLE WHEN TESTED SIMILARLY WITH A THREE (3) LB. WEIGHT ATTACHED TO THE HANDLE.



A ITEM 12 MUST BE 277-20 REV B OR HIGHER (WITH NYLON PATCH ON FULL LENGTH)

4. DO NOT APPLY TORQUE AFTER ADHESIVE BONDING FOR A MIN. OF 12 HRS.

3 USE INSTANT ADHESIVE LOCTITE 401.

2 DEGREASE BONDING AREAS WITH CLEANER (DWG 277-35)

1. ASSEMBLE ITEMS 2 THRU 5 AS SHOWN, BEFORE FINAL ASSEMBLY

NOTES:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SG	A	REMOVED ITEM 7	1-4-94	Joy
SG	B	ITEM 3 WAS 277-23-1 ITEM 4 WAS 277-17-1 ITEM 7 WAS 277-12-1, ITEM 8 WAS 277-131-1	2-24-94	Joy
JK	C	ADD NOTE 7	7-16-94	Joy
A.M.V.	D	ADD NOTE A, NOTE 3 WAS: APPLY CEMENT EVENLY (DWG. 277-34-1).	10-12-95	Joy
RR	E	CHANGED NOTE A.	7-9-99	Joy

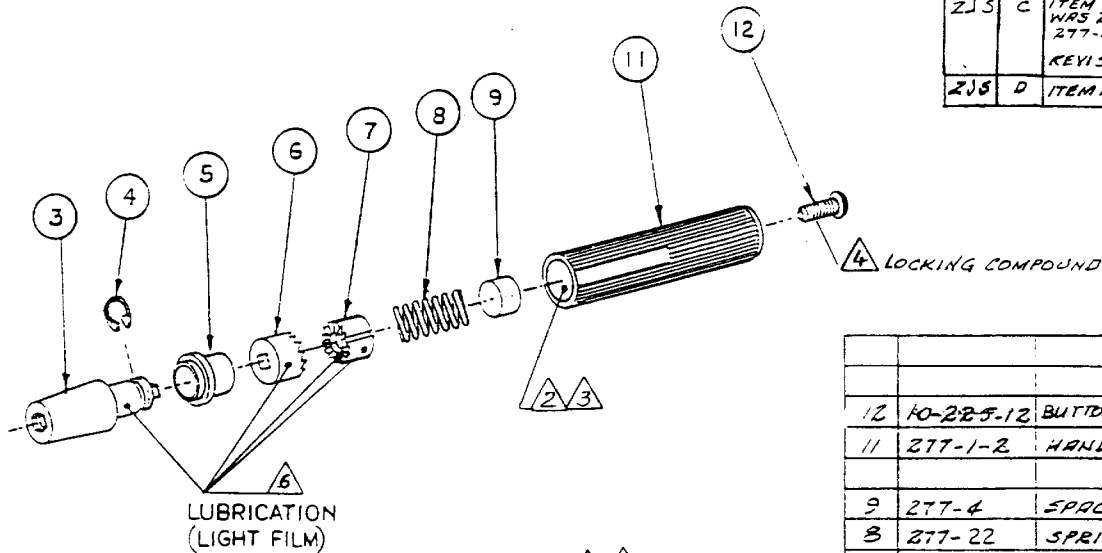
12	277-20	SOCKET SET SCREW (8-32X.500)	/
11	277-122-3	HANDLE (WHITE) STAMPED	/
9	277-4	SPACER	/
8	277-132-2	SPRING	/
7	277-800-14	RATCHET, REAR	/
6	277-12-2	RATCHET, FRONT	/
5	277-2-1	SLEEVE, SHAFT. (WHITE)	/
4	277-18	CRESCENT, RET. RING (STAINLESS STEEL)	/
3	277-23-3	SHAFT DRIVE (WHITE)	/
2	277-24	SPRING CLIP	/
1			

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .XX ± .01 ± 1/2° XXX ± .005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION SCREWDRIVER, MINIATURE			
MATERIAL		3/16 HEX. BIT	32 Ncm VIDENT
FINISH		2:1.5	SCALE — DRAWING NO.
APPROVED Joy		DATE 11-22-93	277-132

3/16 HEX BIT

VIDENT

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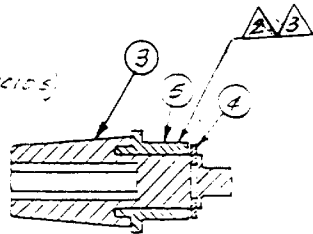


LUBRICATION
(LIGHT FILM)

6 APPLY GENERAL PURPOSE GREASE (NO ACIDS) IN THE MARKED AREA. REF. MOBIL EP 203.

5. DO NOT APPLY TORQUE AFTER ADHESIVE BONDING FOR A MIN. OF 12 HRS.

4 FOR SPECIFICATION AND APPLICATION OF SELF LOCKING COMPOUND SEE DWG. 277-33.



3 APPLY CEMENT EVENLY (DWG. 277-34-2).

2 DEGREASE BONDING AREAS WITH CLEANER (DWG. 277-35).

1. ASSEMBLE ITEMS 3 THRU 5 AS SHOWN BEFORE FINAL ASSY.

NOTES:

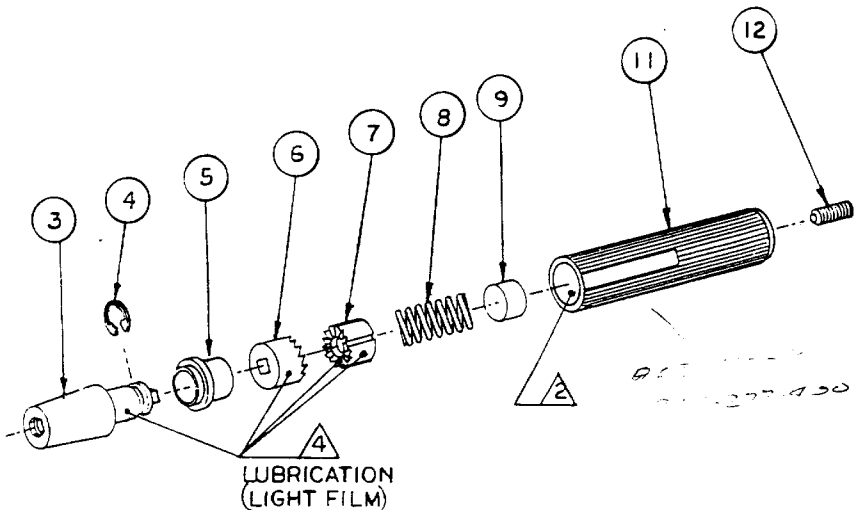
REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
JK	A	ITEM 4 WAS 277-18-2	9/29/88.	[Signature]
ZJS	B	ADD NOTE 3 & 4, DEGREASE TO NOTE 2	12/15/88.	[Signature]
ZJS	C	ITEM 3 WAS 277-23-3 (RED) ITEM 5 WAS 277-2-3 (RED) ITEM 11 WAS 277-21-3 (RED) ITEM 12 WAS 10-101-11 REVISED NOTE 2, ADD NOTES 3, 4	6/5/90.	[Signature]
ZJS	D	ITEM 12 WAS 10-102-12, ITEM 11 WAS 277-21-11	9/25/90.	[Signature]

12	10-225-12	BUTTON HEAD SOCKET CAP SCREW (8-32 X .500)	/
11	277-1-2	HANDLE (BLACK)	/
9	277-4	SPACER	/
8	277-22	SPRING	/
7	277-12-1	RATCHET, REAR	/
6	277-12-2	RATCHET, FRONT	/
5	277-2-2	SLEEVE, SHAFT. (BLACK)	/
4	277-17-2	CRESCENT, RET. RING	/
3	277-23-4	SHAFT DRIVE (WHITE)	/
CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES $\pm 1/32$ $\pm .01$ $\pm 1^\circ$ $\pm .005$ $\pm .005$			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION SCREWDRIVER, MINIATURE 4 MM BIT - 2 IN. LB. MAX			
MATERIAL			
FINISH			
DRAWN	Z.J.S.	SCALE	
APPROVED	[Signature]	DATE	9/19/88.
			DRAWING NO. 277-300

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REVISIONS			
BY	LTR	DESCRIPTION	DATE
JK	A	ITEM 4 WAS 277-18-2	9/29/88
ZJS	B	ADD NOTE 4, 5 & DEGREASE TO NOTE 2	12/13/88

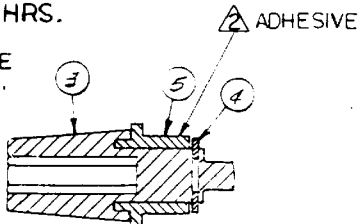


5. DO NOT APPLY TORQUE AFTER ADHESIVE BONDING FOR A MINIMUM OF 12 HRS.

4 APPLY GENERAL PURPOSE GREASE (NO ACIDS) IN THE MARKED AREA. REF. MOBILE EP 023

3 FOR 2 IN. LB. USE 10-101-42 FOR 4 IN. LB. USE 10-101-41

2 ADHESIVE - THREE BOND CYANOACRYLATE ADHESIVE TB1747. DEGREASE THE CONTACT AREA WITH FREON PRIOR TO ADHESIVE APPLICATION.



REF. SOURCE: THREE BOND OF AMERICA
 20815 HIGGING COURT, TORRANCE, CA 90501
 213/320-3347

1. ASSEMBLE ITEMS 3 THRU 5 AS SHOWN, BEFORE FINAL ASS'Y.

NOTES:

12	3	SOCKET SET SCREW	1
11	277-81-1	HANDLE (WHITE)	1
9	277-4	SPACER	1
8	277-22	SPRING	1
7	277-12-1	RATCHET, REAR	1
6	277-12-2	RATCHET, FRONT	1
5	277-2-1	SLEEVE, SHAFT. (WHITE)	1
4	277-17-2	CRESCENT	1
3	277-25-4	SHAFT DRIVE (WHITE)	1
CODE IDENT	PART NO.	DESCRIPTION	REQD

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .XX ± .01 = 1/2°
 = .XXX = .005

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
 SCREWDRIVER, MINIATURE (WHITE)
 2 # 4 IN. LB. MAX.

MATERIAL

FINISH

DRAWN Z.J.S.

SCALE —

DRAWING NO.

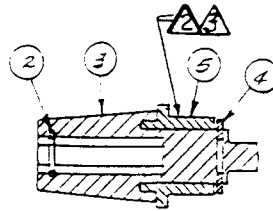
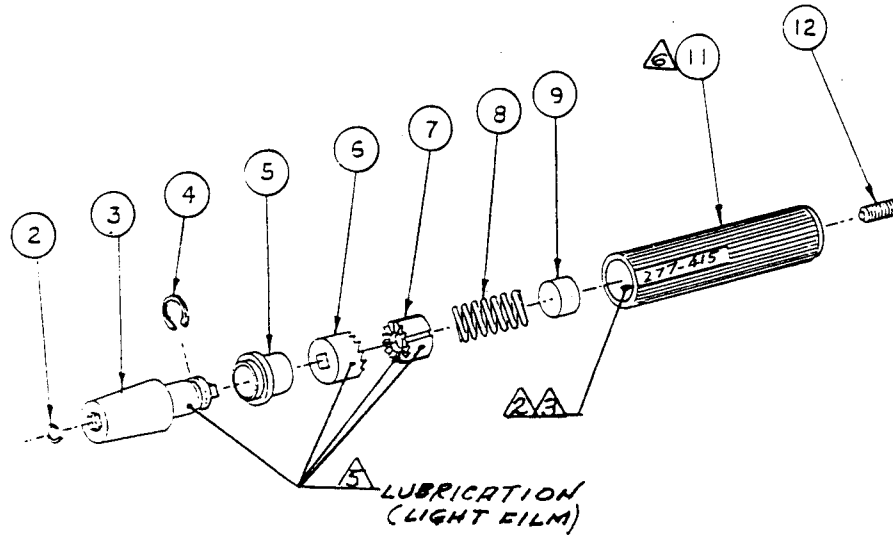
APPROVED [Signature]

DATE 7/19/88

277-400

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
87	A	ITEM 9 WAS 1 REQ'D.	7-13-94	JCY



- ⚠️ APPLY GENERAL PURPOSE GREASE (NO ACIDS) IN THE MARKED AREA. REF. MOBIL EP203.
- 4. DO NOT APPLY TORQUE AFTER ADHESIVE BONDING FOR A MIN. OF 12 HRS.
- ⚠️ APPLY CEMENT EVENLY (DWG. # 277-34-1)
- ⚠️ DEGREASE BONDING AREAS WITH CLEANER (DWG. # 277-35)
- 1. ASSEMBLE ITEMS 2 THRU 5 AS SHOWN, BEFORE FINAL ASSY.

NOTES:

12	277-20	SOCKET SET SCREW (8-32 X.500)	1
11	277-10-2	HANDLE (WHITE)	1
9	277-4	SPACER	2
8	277-700-9	SPRING	1
7	277-12-1	RATCHET, REAR	1
6	277-12-2	RATCHET, FRONT	1
5	277-2-1	SLEEVE, SHAFT. (WHITE)	1
4	277-17-2	CRESENT RETAINING RING	1
3	277-23-1	SHAFT DRIVE (WHITE)	1
2	277-24	SPRING CLIP	1
1			

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			

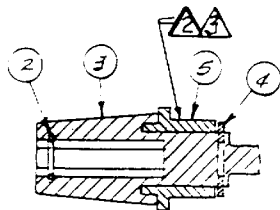
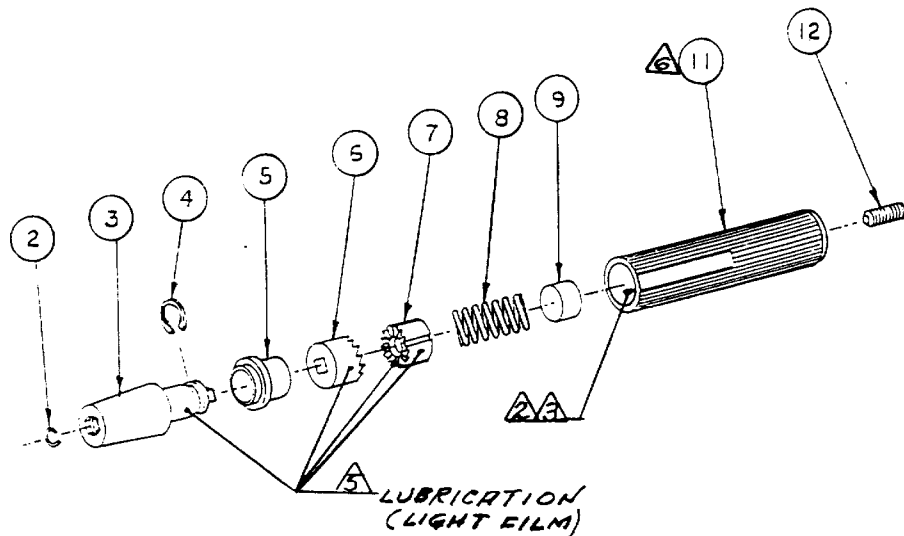
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = 1/32 XX = .01 = 4° XXX = .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION SCREWDRIVER, MINIATURE (WHITE) 3/16 HEX. 2 - 10 INCH.	
FINISH		DRAWN <u>JCY</u> SCALE <u>---</u> DRAWING NO. <u>277-415</u>	APPROVED <u>JCY</u> DATE <u>4-13-93</u>

④ ESHOF TAPING & ADDRESS REC'D # 02041

NOTE: UNCONTROLLED COPY

3/16 HEX BIT

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△ FOR HANDLE WITH MARKING
 SEE 277-10-TAB.

△ APPLY GENERAL PURPOSE GREASE (NO ACIDS)
 IN THE MARKED AREA. REF. MOBIL EP203.

4. DO NOT APPLY TORQUE AFTER ADHESIVE BONDING
 FOR A MIN. OF 12 HRS.

△ APPLY CEMENT EVENLY (DWG. # 277-34-1)

△ DEGREASE BONDING AREAS WITH CLEANER (DWG. # 277-35)

1. ASSEMBLE ITEMS 2 THRU 5 AS SHOWN, BEFORE FINAL ASSY.

NOTES:

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
JK	A	ITEM 11 WAS 277-21-1	6-26-91	Joy
	B	ITEM # 3 WAS 277-18	8-5-91	Joy
JK	C	ITEM 4 WAS 277-18	8-6-91	Joy
JK	D	DRWG NO WAS 277-500	4-13-93	Joy

12	277-20	SOCKET SET SCREW (8-32 X.500)	1
11	277-10-3	HANDLE (WHITE)	1
			2
9	277-4	SPACER	1
8	277-19	SPRING	1
7	277-12-1	RATCHET, REAR	1
6	277-12-2	RATCHET, FRONT	1
5	277-2-1	SLEEVE, SHAFT. (WHITE)	1
4	277-17-2	CRESENT RETAINING RING	1
3	277-23-1	SHAFT DRIVE (WHITE)	1
2	277-24	SPRING, CLIP	1
1			
CODE IDENT	PART NO	DESCRIPTION	REQD

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 XX ±.01 ±.04°
 XXX ±.005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

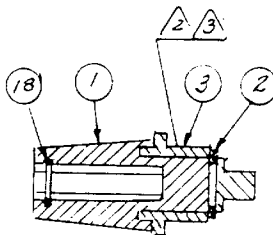
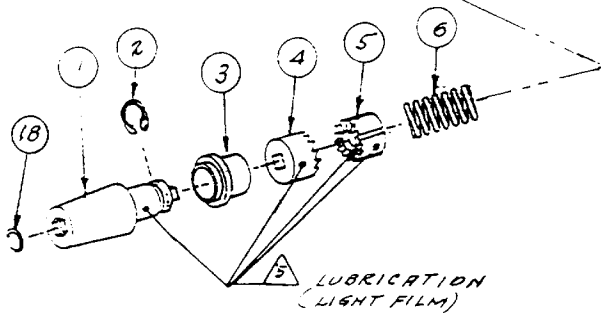
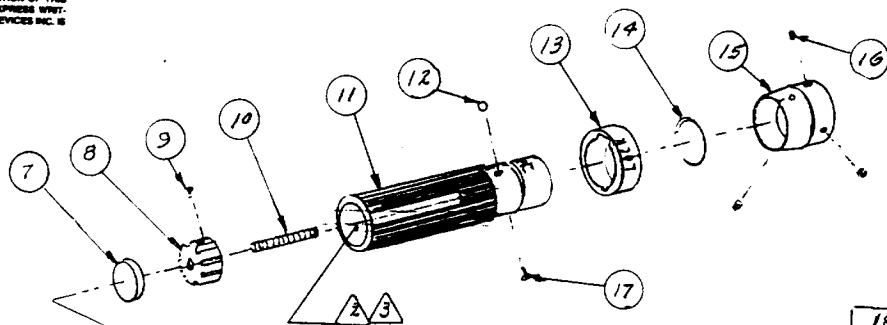
EXPLODED ILLUSTRATION
 SCREWDRIVER, MINIATURE, WHITE,
 3/16 HEX. 4-20 IN. OZ.

MATERIAL

FINISH

DRAWN 2.5 SCALE — DRAWING NO.
 APPROVED 2.5 DATE 6-6-91 277-420

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- ⑤ APPLY GENERAL PURPOSE GREASE (NO ACIDS) IN THE MARKED AREA. REF. MOBIL EP203.
 - ④ DO NOT APPLY TORQUE AFTER ADHESIVE BONDING FOR A MINIMUM OF 12 HOURS.
 - ③ APPLY CEMENT EVENLY (DWG. # 277-34-1)
 - ② DEGREASE BONDING AREAS WITH CLEANER. (DWG. # 277-35)
1. ASSEMBLE ITEMS 18, 2 & 3 AS SHOWN BEFORE FINAL ASSY.

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SG	A	ITEM 9 WAS 1 REQ	7-29-94	[Signature]
		REMOVED TEMPORARY NOTE		
SG	B	ITEM 5 WAS 277-12-1, ITEM 7 WAS 1 REQ.	8-28-94	[Signature]

18	277-24	SPRING CLIP	1
17	277-700-13	DRIVE SCREW	1
16	10-101-50	SOCKET SET SCREW (4-90 x 1/4 LG)	3
15	277-700-6	ADJUSTING KNOB	1
14	277-700-11	RETAINING RING	1
13	277-700-5	LOCK RING	1
12	10-106-B	BALL (1/8 DIA.)	1
11	277-700-7	HANDLE	1
10	277-700-12	SCREW, ADJUSTING	1
9	10-101-51	SOCKET SET SCREW (2-56 x 3/32 LG)	2
8	277-700-4	LOCK SLEEVE	1
7	277-700-8	SPACER	2
6	277-700-9	SPRING, LOAD	1
5	277-800-14	RATCHET, REAR	1
4	277-12-2	RATCHET, FRONT	1
3	277-2-2	SLEEVE, SHAFT	1
2	277-17-2	CRESCENT RETAINING RING	1
1	277-23-1	SHAFT DRIVE (WHITE)	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 .XX ± .01 ± 1/4°
 .XXX ± .005

CONSOLIDATED DEVICES, INC.

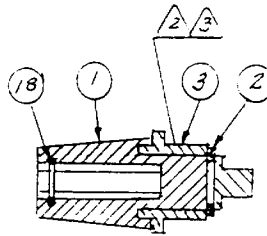
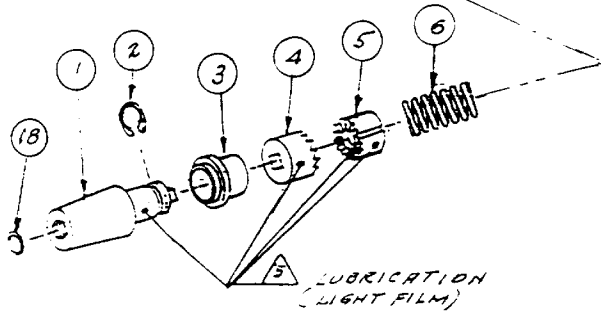
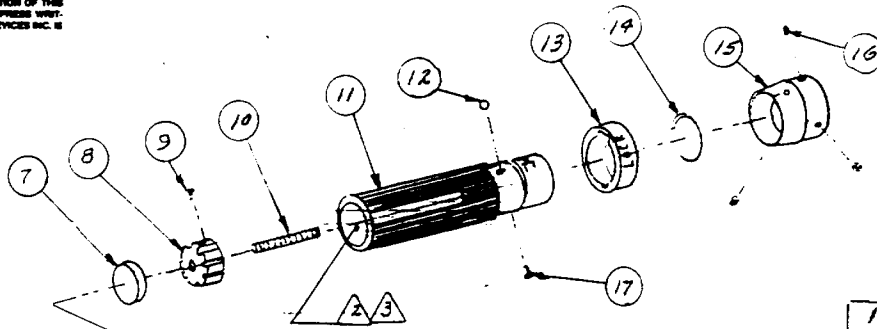
City of Industry, California

EXPLODED ILLUSTRATION
 MINIATURE SCREWDRIVER, ADJUSTABLE

SCR 277 3/16 HEX.

MATERIAL		
FINISH		
DRAWN	Z.J.S.	SCALE —
APPROVED	[Signature]	DATE 4-8-92
		DRAWING NO. 277-700

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SJ	A	ITEM 9 WAS 1 REQ'D REMOVED TEMP. NOTE	7/29/94	Jay

18	277-24	SPRING CLIP	1
17	277-700-13	DRIVE SCREW	1
16	10-101-50	SOCKET SET SCREW (4-40 x 1/4 LG)	3
15	277-800-6	ADJUSTING KNOB	1
14	277-700-11	RETAINING RING	1
13	277-700-5	LOCK RING	1
12	10-106-B	BALL (1/8 DIA.)	1
11	277-800-7	HANDLE	1
10	277-700-12	SCREW, ADJUSTING	1
9	10-101-51	SOCKET SET SCREW (2-56 x 3/32 LG)	2
8	277-700-4	LOCK SLEEVE	1
7	277-700-8	SPACER	1
6	277-800-9	SPRING LOAD	1
5	277-800-14	RATCHET, REAR	1
4	277-12-2	RATCHET, FRONT	1
3	277-2-2	SLEEVE, SHAFT	1
2	277-17-2	CRESCENT RETAINING RING	1
1	277-23-1	SHAFT DRIVE	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = .131 XX = .01 = 4°
 XXX = .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

MATERIAL

EXPLODED ILLUSTRATION
 MINIATURE SCREWDRIVER, ADJUSTABLE
 SKR 277 3/16 HEX.

FINISH

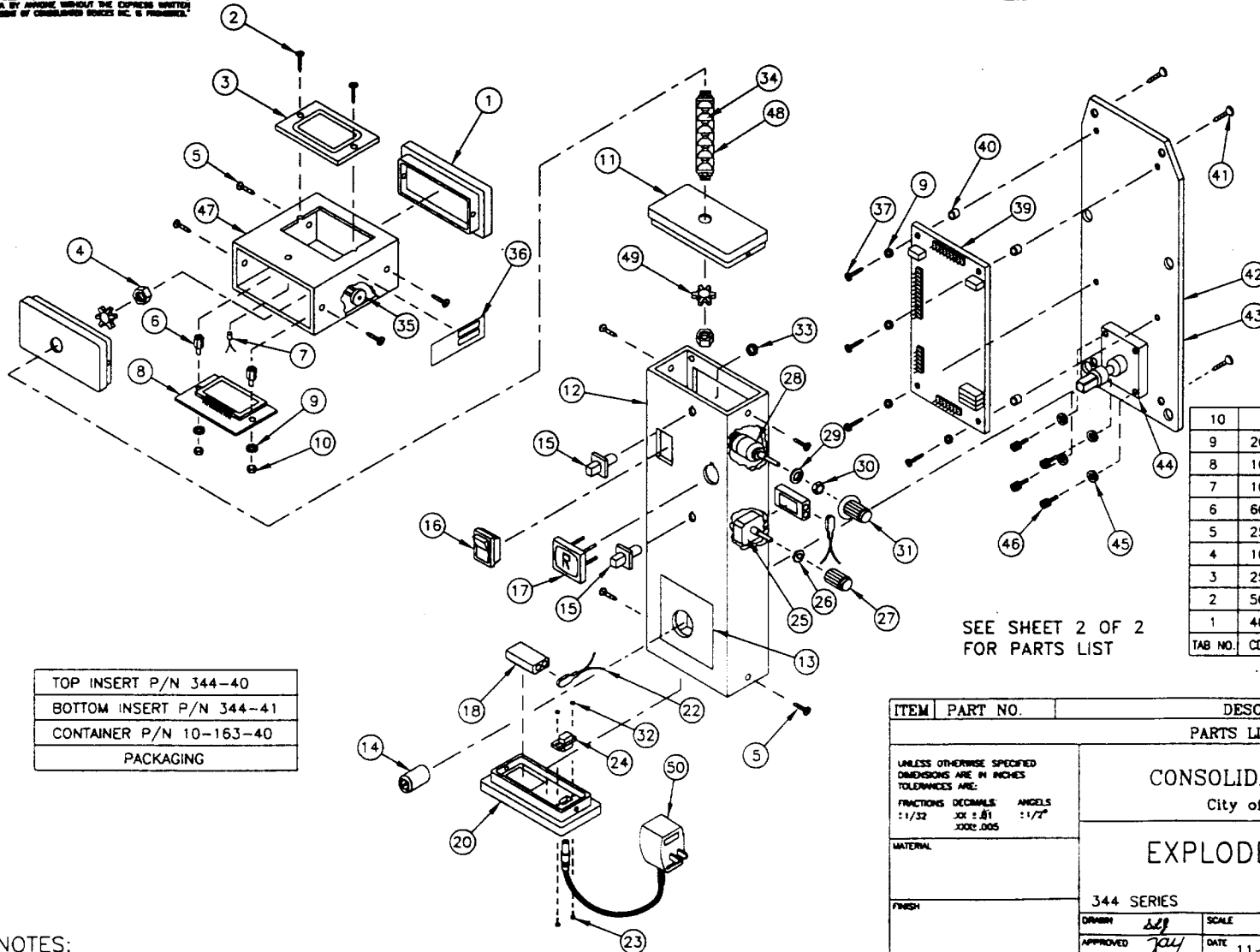
DRAWN Z.J.J. SCALE — DRAWING NO.
 APPROVED [Signature] DATE 4-8-92 277-800

- 3 APPLY GENERAL PURPOSE GREASE (NO ACIDS) IN THE MARKED AREA. REF. MOBIL EP203.
- 4 DO NOT APPLY TORQUE AFTER ADHESIVE BONDING FOR A MINIMUM OF 12 HOURS.
- 3 APPLY CEMENT EVENLY (DWG. # 277-34-1)
- 2 DEGREASE BONDING AREAS WITH CLEANER. (DWG. # 277-35)
- ASSEMBLE ITEMS 18, 2 & 3 AS SHOWN BEFORE FINAL ASSY.

NOTE:

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BY	LTR	DESCRIPTION	DATE	APPROVED
JG	T	ADDED NOTE 10.	12/17/98	<i>[Signature]</i>



TOP INSERT P/N 344-40
BOTTOM INSERT P/N 344-41
CONTAINER P/N 10-163-40
PACKAGING

SEE SHEET 2 OF 2
 FOR PARTS LIST

TAB NO.	CDX MODEL NO.	RANGE	DRIVE	ITEM 14
10				
9	2001-0-ETT	200 IN.OZ.	1/4	342-40
8	1001-0-ETT	100 IN.OZ.	1/4	342-40
7	10011-ETT	100 IN.LB.	1/4	342-40
6	6004F-ETT	600 FT.LB.	3/4	65-78-2
5	2503F-ETT	250 FT.LB.	1/2	65-26-3
4	100021-ETT	1000 IN.LB.	3/8	342-41-2
3	25021-ETT	250 IN.LB.	3/8	342-41-2
2	5011-ETT	50 IN.LB.	1/4	342-40
1	4001-0-ETT	400 IN.OZ.	1/4	342-40

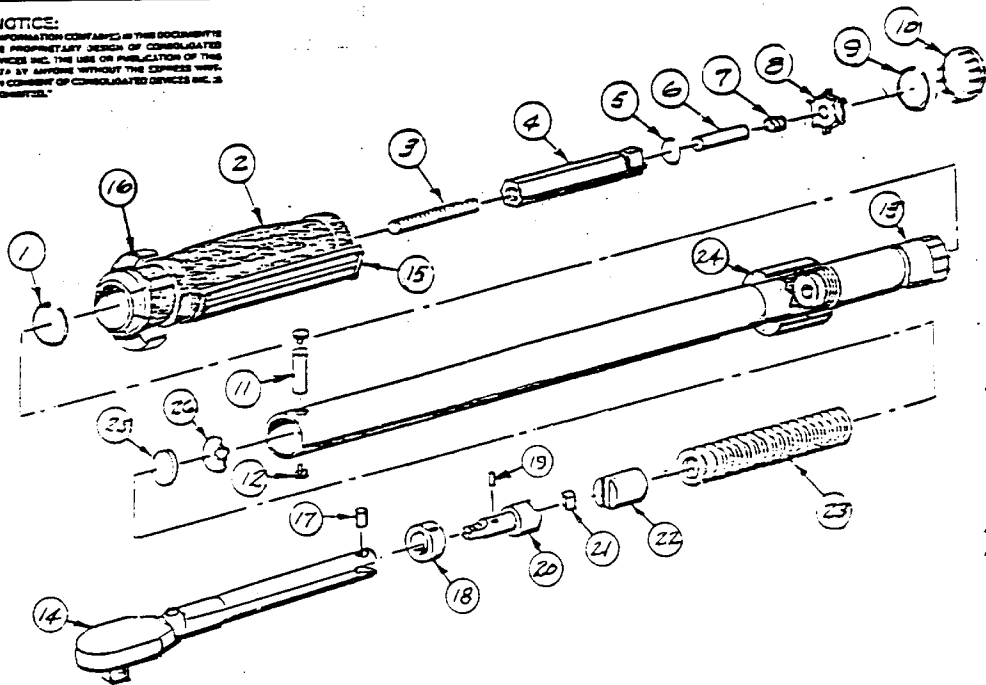
NOTES:

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION ETT 2			
344 SERIES			
DRAWN <i>[Signature]</i>		SCALE NONE	DRAWING NO.
APPROVED <i>[Signature]</i>		DATE 11-28-89	344-TAB-0

SHEET 1 OF 2

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CM9002M	61-61	45-255	46-2534
1003 MF	61-61	45-225	45-253-1
1002 MF	61-61	45-225	45-253-1
10002 M	61-6Z	45-255	45-253-1
FOR	ITEM 20 PART NO.	ITEM 29 PART NO.	ITEM 21 PART NO.

- ⚠ ITEM 2, FOR RED HANDLE, USE 46-1-2.
 - ⚠ SEE 45 SERIES PARTS LIST TO DETERMINE A PART NO. FOR A PARTICULAR HANDLE LABEL (ITEM 16) & TUBE LABEL (ITEM 24)
 - ⚠ FOR WRENCHES TO BE RECALIBRATED, SEE 46-253-TAB.
 - ⚠ ITEM 14, FOR 1/2" DRIVE USE 45-233-2
 - ⚠ HANDLE GRIP (ITEM 5) TO BE FURNISHED, IF REQUESTED.
- NOTE:

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
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26	30-8	WASHER, THRUST		1
25	10-106-1	WASHER, FLAT		21/2
24	1A	LABEL, TUBE		1
23	SEE BLOCK	SPRING TORQUE		1
22	45-251	CAM		1
21	SEE BLOCK	PAWL		1
20	SEE BLOCK	SECONDARY ARM		1
19	10-102-22	PIN, FULCRUM		1
18	61-60	FULCRUM		1
17	45-250	PIN, ROLLER		1
16	1A	LABEL, HANDLE		1
15	45-277	HANDLE GRIP		1
14	45-290	ARM & DRIVE ASSY	3/2	1
13	46-2-1	TUBE ASSY.		1
12	45-92	RIVET, PIVOT PIN		2
11	45-91	PIN, PIVOT		1
10	10-103-3	BUTTON PLUG, HANDLE		1
9	45-137	CLIP, HEX RETAINER		1
8	45-75	WASHER, HEX. LOCK		2
7	10-101-19	SOC. SET SCREW, HEX BAR		1
6	45-6-2	PIN, LOCK HEX BAR		1
5	45-2	CLIP, SPRING HEX BAR		1
4	45-28	HEX BAR, INTERNAL ADJ.		1
3	10-101-1	SOC. SET SCREW, HEX BAR		1
2	46-1-1	HANDLE, PLASTIC		1
1	45-74	CLIP, HANDLE		1

PART NO.	DESCRIPTION	QTY
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CONSOLIDATED DEVICES, INC.
 City of Industry, California

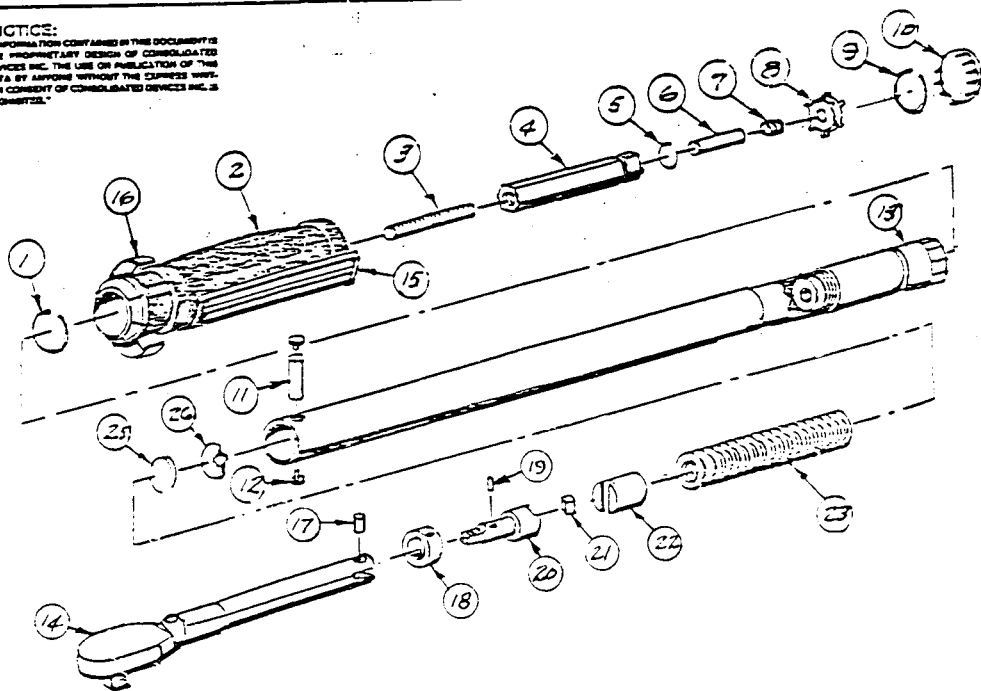
EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH, 3/8 DR.
 1/2 DR.

SE: 45	SCALE: NONE	DRAWING NO.:
DATE: 8-26-97	46-131-1	A

NOTE: UNCONTROLLED COPY

WITH SECONDARY ARM 1002MF

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1003MF	46-3-4	61-61	45-225	1/2
1002MF	46-3-4	61-61	45-225	3/8
10002M	46-3-2	61-62	45-255	3/8
FOR	ITEM 13 PART NO.	ITEM 20 PART NO.	ITEM 23 PART NO.	DR.

- ⚠ ITEM 2, FOR RED HANDLE, USE 46-1-2.
- ⚠ SEE 45 SERIES PARTS LIST TO DETERMINE A PART NO. FOR HANDLE LABEL.
- ⚠ FOR WRENCHES TO BE RECALIBRATED, SEE 46-253-TAB.
- ⚠ ITEM 14, FOR 1/2" DRIVE, USE 45-233-2
- ⚠ HANDLE GRIP (ITEM 15) TO BE FURNISHED IF REQUESTED.

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED

26	30-8	WASHER, THRUST		
25	10-102-1	WASHER, FLAT		AK
23	SEE BLOCK	SPRING, TORQUE		
22	45-251	CAM		
21	45-253-1	PAWL		
20	SEE BLOCK	SECONDARY ARM		
19	10-102-22	PIN, FULCRUM		
18	61-60	FULCRUM		
17	45-250	PIN, ROLLER		
16	Δ	LABEL, HANDLE		
15	45-217	HANDLE GRIP		
14	45-240	ARM & DRIVE ASSY	3/8	
13	SEE BLOCK	TUBE ASSY.	(ROLL STAMP)	
12	45-92	RIVET PIVOT PIN		
11	45-91	PIN, PIVOT		
10	10-103-3	BUTTON PLUG HANDLE		
9	45-137	CLIP HEX RETAINER		
8	45-75	WASHER, HEX. LOCK		
7	10-101-19	SOC. SET SCREW, HEX BAR		
6	45-6-2	PIN, LOCK HEX. BAR		
5	45-2	CLIP, SPRING HEX. BAR		
4	45-49	HEX. BAR, INTERNAL ADJ.		
3	10-101-1	SOC. SET SCREW, HEX BAR		
2	46-1-1	HANDLE, PLASTIC		
1	45-74	CLIP HANDLE		

CODE	PART NO.	DESCRIPTION	REQD
------	----------	-------------	------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 DECIMALS ARE:
 FRACTIONS DECIMALS ANGLES
 1/32 0.03125 15° = 15°

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION

MICRO-ASSEMBLY WRENCH, 3/8 DR. ROLL STAMP
 1/2 DR. TUBE

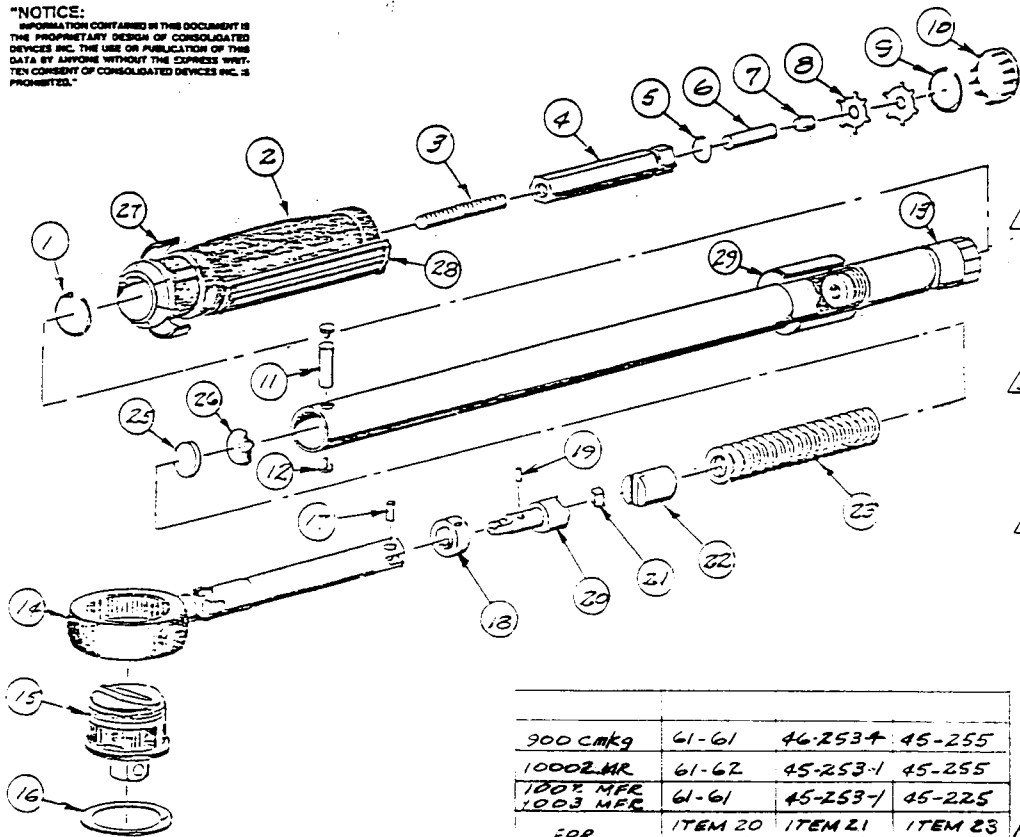
SER. 46

DRW. 21.5 SCALE NONE DRAWING NO.

APPROVED DATE 46-131-2

WITH SECONDARY ARM 1002MF

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900 CMK9	61-61	46-253-4	45-255
10002 MFR	61-62	45-253-1	45-255
100% MFR	61-61	45-253-1	45-225
1003 MFR			
FOR	ITEM 20	ITEM 21	ITEM 23
	PART NO.	PART NO.	PART NO.

- △ ITEM 2, FOR RED HANDLE, USE 46-1-2.
- △ ITEM 15, FOR 1/2" DR. USE 95-54.
- △ SEE 45 SERIES PARTS LIST TO DETERMINE A PART NO. FOR A PARTICULAR HANDLE LABEL (ITEM 27) & TUBE LABEL (ITEM 29).
- △ SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.
- △ HANDLE GRIP TO BE FURNISHED IF REQUESTED.
- △ ITEMS 3 THRU 7 MAY BE FURNISHED AS COMPLETE ASSY. HEX. ASSY. (45-94-2) WITH ITEM 6 (PART NO. 45-6-2)

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED

29	△	LABEL, TUBE	/
28	△	45-277 HANDLE GRIP	/
27	△	LABEL, HANDLE	/
26		30-8 WASHER, THRUST	/
25		10-104-1 WASHER, FLAT	A/R
23		SEE BLOCK SPRING, TORQUE	/
22		45-251 CAM	/
21	△	SEE BLOCK PAWL	/
20	△	SEE BLOCK SECONDARY ARM	/
19		10-102-24 PIN, FULCRUM	/
18		61-60 FULCRUM	/
17		45-250 PIN, ROLLER	/
16		95-44 RETAINER RING, RATCHET	/
15	△	45-109 GUTS, RATCHET	/
14		45-93-1 RATCHET BODY	/
13		46-2-1 TUBE ASSY. (LABEL)	/
12		45-92 PIN, PIVOT PIN	2
11		45-91 PIN, PIVOT	/
10		10-103-3 BUTTON PLUG, HANDLE	/
9		45-137 CLIP, HEX RETAINER	/
8		45-75 WASHER, HEX. LOCK	2
7		10-101-19 SOC. SET SCREW, HEX BAR	/
6	△	PIN, LOCK HEX BAR	/
5		45-2 CLIP, SPRING HEX BAR	/
4		45-43 HEX BAR, INTERNAL ADJ.	/
3		10-101-1 SOC. SET SCREW, HEX BAR	/
2	△	46-1-1 HANDLE, PLASTIC	/
1		45-74 CLIP, HANDLE	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
------------	----------	-------------	------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 .005 .01 = 4'

CONOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICR. ADJ. WRENCH, 3/8 DR. RATCHET

SER. 46

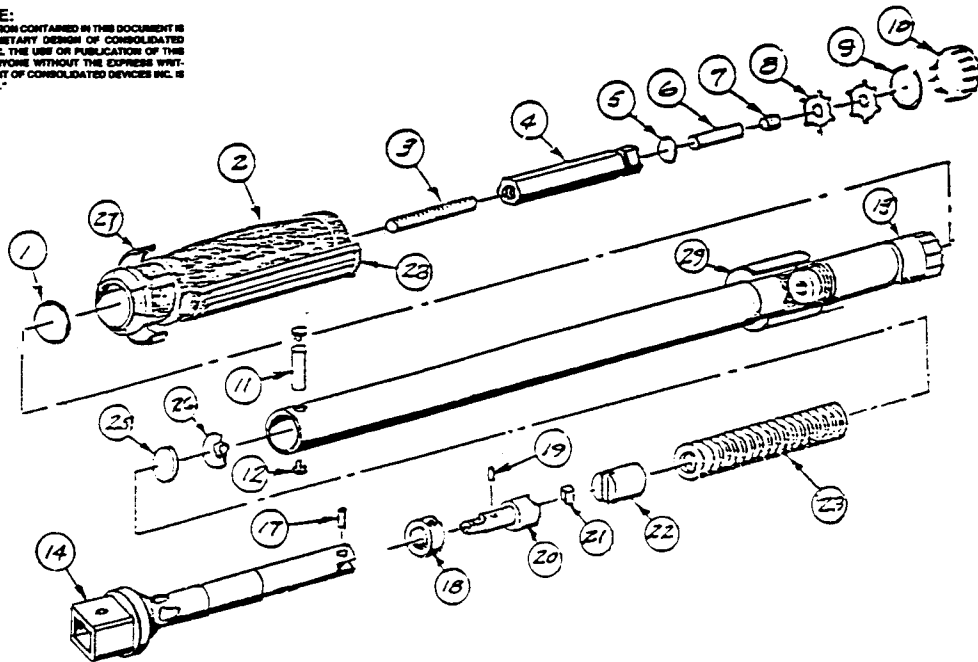
DRAWN Z.J.S.	SCALE NONE	DRAWING NO.
APPROVED [Signature]	DATE 2-26-87	46-132-1

① HISHOR GRAPHICS/ACCOMPRESS RECORDER NO. 13841

NOTE: UNCONTROLLED COPY

WITH SECONDARY ARM 1003MFR

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 PROHIBITED."



⚠ FOR WRENCHES TO BE RECALIBRATED, SEE 46-253-TAB.

⚠ ITEM 28 HANDLE GRIP FURNISHED IF REQUESTED.

⚠ ITEMS 3 THRU 7 MAY BE FURNISHED AS COMPLETE ASSY.
 A. HEX. ASSY. (45-94-1) WITH ITEM 6 (45-61).

NOTE:

REVISIONS

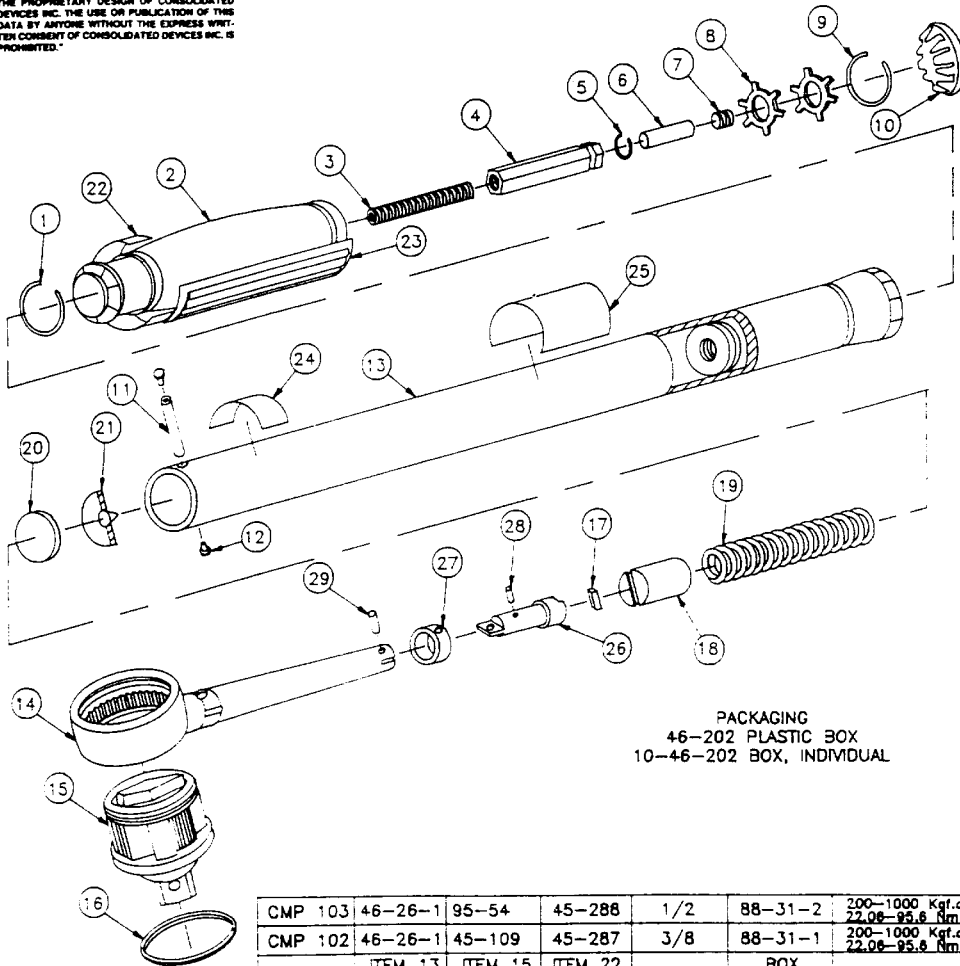
BY	LTR	DESCRIPTION	DATE	APPROVED
JK	A	CHD. NOTE Δ	2-11-93	707

29	45-212	LABEL TUBE	/
28	45-277	HANDLE GRIP	/
27	45-213	LABEL HANDLE	/
26	30-8	WASHER, THRUST	/
25	10-104-1	WASHER, FLAT	A/R
23	45-255	SPRING, TORQUE	/
22	45-251	CAM	/
21	45-253-1	PAWL	/
20	61-61	SECONDARY ARM	/
19	10-102-24	PIN, FULLCRUM	/
18	61-60	FULCRUM	/
17	45-250	PIN, ROLLER	/
14	45-154	ARM CLICK, REPL. DRIVE	/
13	SEE BLOCK	TUBE ASSY.	/
12	45-92	RIVET, PIVOT PIN	2
11	45-91	PIN, PIVOT	/
10	10-103-2	BUTTON PLUG, HANDLE	/
9	45-137	CLIP HEX RETAINER	/
8	45-75	WASHER, HEX. LOCK	2
7	10-101-19	SOC. SET SCREW, HEX BAR	/
6	11	PIN, LOCK HEX. BAR	/
5	45-2	CLIP, SPRING HEX. BAR	/
4	45-43	HEX. BAR, INTERNAL ADJ.	/
3	10-101-1	SOC. SET SCREW, HEX BAR	/
2	46-1-1	HANDLE, PLASTIC	/
1	45-74	CLIP HANDLE	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = 1/32 .XX = .01 = 1/4° XXX = .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL:		EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH REPLACEABLE DR.	
FINISH:		900 CMKP HERMAN WERNER	
DRAWN ZJS		SCALE —	DRAWING NO. 46-133-1
APPROVED [Signature]		DATE 9/28/88	

900 CMKS

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PACKAGING
 46-202 PLASTIC BOX
 10-46-202 BOX, INDIVIDUAL

CMP 103	46-26-1	95-54	45-288	1/2	88-31-2	200-1000 Kgf.cm 22.08-95.6 Nm
CMP 102	46-26-1	45-109	45-287	3/8	88-31-1	200-1000 Kgf.cm 22.08-95.6 Nm
FOR	ITEM 13 PART NO.	ITEM 15 PART NO.	ITEM 22 PART NO.	DRIVE	BOX LABEL	RANGE

1. SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.

NOTES:

REVISIONS

BY	LTR	DESCRIPTION	DATE	APPROVED
SDJ	B	ITEM 1 WAS 45-74, 46-202 WAS 46-202-1, REDRAWN	2-11-94	Jeg

29	45-250	PIN, ROLLER	1
28	10-102-24	PIN, FULCRUM	1
27	61-60	FULCRUM	1
26	61-61	SECONDARY ARM	1
25	88-36	INSTRUCTION LABEL	1
24	88-35	INSPECTION LABEL	1
23	45-277	HANDLE GRIP	1
22	SEE BLOCK	LABEL, HANDLE	1
21	30-8	WASHER, THRUST	1
20	10-104-1	WASHER, FLAT	A/R
19	45-255	SPRING, TORQUE	1
18	45-251	CAM	1
17	45-253-1	PAWL	1
16	95-44	RETAINER RING, RATCHET	1
15	SEE BLOCK	GUTS, RATCHET	1
14	45-93-1	RATCHET BODY	1
13	SEE BLOCK	TUBE ASSEMBLY (ROLL STAMP)	1
12	45-92	RVET, PIVOT PIN	2
11	45-91	PIN, PIVOT	1
10	10-103-3	BUTTON PLUG, HANDLE	1
9	45-137	CLIP, HEX RETAINER	1
8	45-75	WASHER, HEX LOCK	2
7	10-101-19	SOCKET SETSCREW, HEX BAR	1
6	45-6-2	PIN, LOCK HEX BAR	1
5	45-2	CLIP, SPRING HEX BAR	1
4	45-48	HEX BAR, INTERNAL ADJ.	1
3	10-101-1	SOCKET SETSCREW, HEX BAR	1
2	46-1-1	HANDLE, PLASTIC	1
1	45-74-1	CLIP HANDLE	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 = 1/32 XX = .01 = 1/4°
 XXX = .005

CONSOLIDATED DEVICES, INC.

City of Industry, California

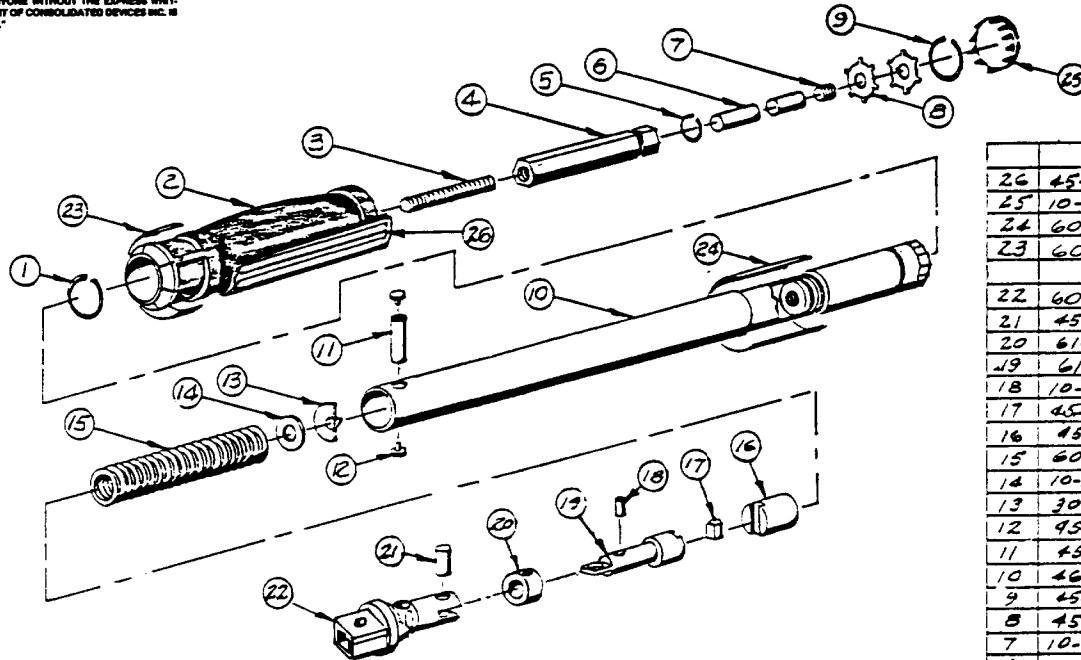
EXPLODED ILLUSTRATION
MICRO.ADJ.WRENCH 3/8 RATCHET
 1000 Kgf.cm

SERIES 46		DRAWING NO.	
DRAWN	SCALE NONE	46-332-2	
APPROVED	DATE 7-31-90		

KTC CMP 102
 KTC CMP 103

NOTE: UNCONTROLLED COPY

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3. FOR WRENCHES TO BE RECALIBRATED, SEE 46-253-TAB.

△ HANDLE GRIP TO BE FURNISHED IF REQUESTED.

△ ITEMS 3 THRU 7 MAY BE FURNISHED AS ASSY. HEX. ASSY. (45-94-1) WITH ITEM 6 (PART NO. 45-6-2)

NOTE.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	DELETE 45-94-2 ; ADD 45-94-1	8-28-91	Joy

26	45-277	HANDLE, GRIP	△	1
25	10-103-3	BUTTON PLUG, HANDLE		1
24	60-212	TUBE		1
23	60-213	LABEL, HANDLE		1
22	60-154	ARM CLICK, REPL. DRIVE		1
21	45-250	PIN, ROLLER		1
20	61-60	FULCRUM		1
19	61-61	SECONDARY ARM		1
18	10-102-24	PIN, FULCRUM		1
17	45-253-1	PAWL		1
16	45-251	CAM		1
15	60-64	SPRING, TORQUE		1
14	10-104-1	WASHER, FLAT		A/R
13	30-8	WASHER, THRUST		1
12	45-92	RIVET, PIVOT PIN		Z
11	45-91	PIN, PIVOT		1
10	46-2-3	TUBE ASSY.		1
9	45-137	CLIP, HEX RETAINER		1
8	45-75	WASHER, HEX LOCK		Z
7	10-101-19	SOQ. SET SCREW, HEX.		1
6	△	PIN, HEX LOCK		1
5	45-2	CLIP SPRING, HEX BAR		1
4	45-48	BAR, HEX. INTERNAL ADJUSTING		1
3	10-101-1	SOQ. SET SCREW, HEX BAR		1
2	46-1-1	HANDLE, PLASTIC (BLACK)		1
1	45-74	CLIP, HANDLE		1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES
 = 1/32 .XX ±.01 ± 1/4°
 .XXX ±.005

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH, REPLACEABLE DRIVE
 SRR. 61 200 CHKP HERMAN WERNER

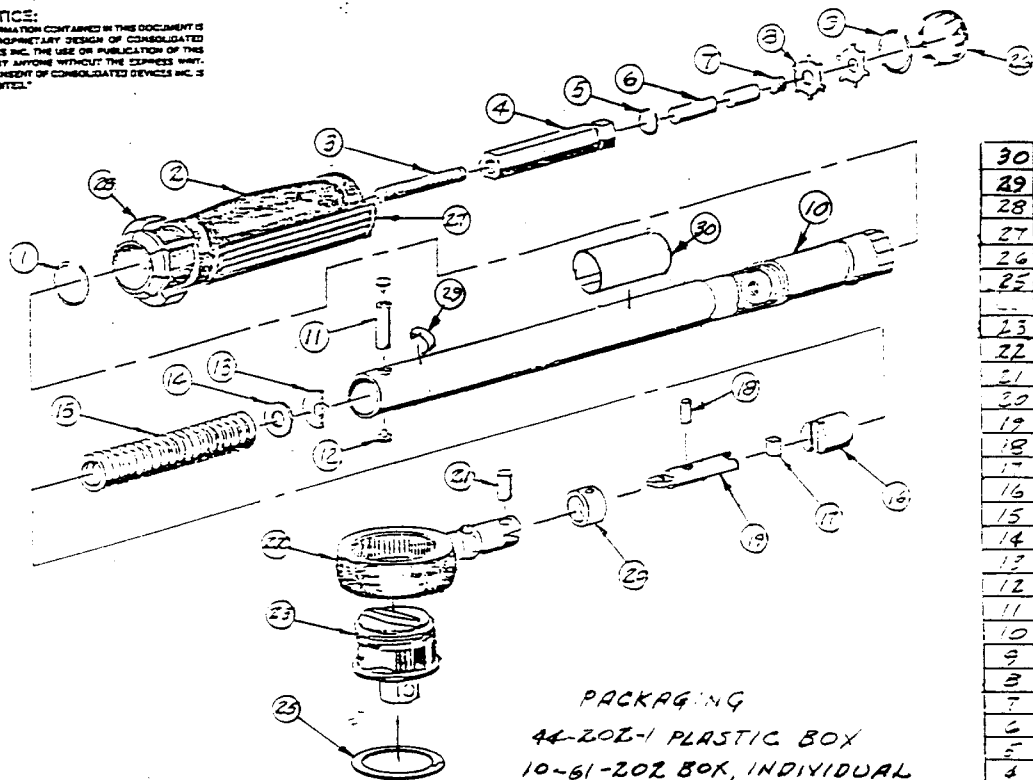
MATERIAL

FINISH

DRAWN	Z.V.S.	SCALE	—	DRAWING NO.	61-133-1
APPROVED	[Signature]	DATE	9/28/88		

30-200 dNm
 30-200 CHKP

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PACKAGING
 44-202-1 PLASTIC BOX
 10-61-202 BOX, INDIVIDUAL

REVISIONS				
BY	TR	DESCRIPTION	DATE	APPROVED
ZJS	A	ITEM 10 WAS 61-23-10	8/23/90.	[Signature]
ZJS	B	PLASTIC BOX WAS 61-202-1	3/22/91.	[Signature]

30	88-36	INSTRUCTION LABEL	/
29	88-85	INSPECTOR LABEL	/
28	SEE BLOCK	LABEL HANDLE	/
27	45-27T	HANDLE GRIP	/
26	10-102-3	BUTTON PLUG, HANDLE	/
25	95-44	RETAINING RING	/
23	SEE BLOCK	GUTS RATCHET	/
22	60-83	RATCHET BODY	/
21	45-250	PIN, ROLLER	/
20	61-60	FULCRUM	/
19	61-6A	SECONDARY ARM	/
18	10-102-24	PIN, FULCRUM	/
17	45-253-1	BARCL	/
16	45-251	CAM	/
15	60-221	SPRING TANGUE	/
14	10-104-1	WASHER FLAT	212
13	20-B	WASHER THRUST	/
12	45-92	RIVET PIVOT PIN	2
11	45-91	PIN, PIVOT	/
10	SEE BLOCK	TOUSE ASSY. (STAMPED)	/
9	45-13T	CLIP HEX. RETAINER	/
8	45-75	WASHER HEX LOCK	2
7	10-101-19	SOC. SET SCREW HEX BAR	/
6	45-6-1	PIN LOCK HEX BAR	/
5	45-2	CLIP SPRING HEX BAR	/
4	45-42	BAR HEX INTERNAL ADJUSTING	/
3	10-101-1	SOC SET SCREW HEX BAR	/
2	46-1-1	HANDLE PLASTIC (BLACK)	/
1	45-74	CLIP HANDLE	/

CODE	PART NO.	DESCRIPTION	RECD
1051			

PARTS LIST

CMPO53	61-23-3	95-54	60-293	1/2 RATCH.	88-304
CMPO52	61-23-3	45-109	60-292	3/8 RATCH.	88-303
FOR	ITEM 10 PART NO.	ITEM 23 PART NO.	ITEM 28 PART NO.	DRIVE BOX LABEL	

1 SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.

NOTE:

NOTE: UNCONTROLLED COPY

WITH SECONDARY ARM

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE
 FRACTIONS DECIMALS
 ± 1/32 ± .01 ± .4"
 XXX 2 .009

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH, 1/2 & 3/8 RATCHET

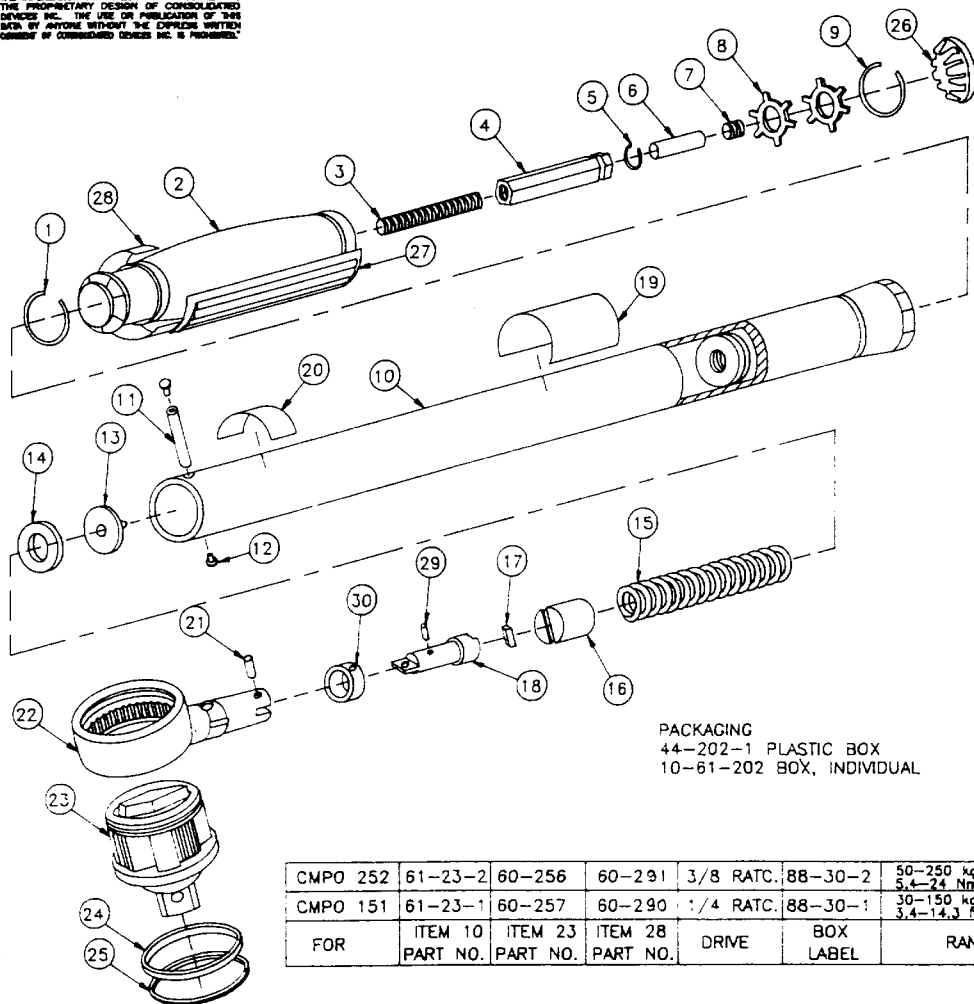
SER. 61 100-500 Kgf-CM 12.3-46.6 Nm

DRAWN	ZJS	SCALE	NONE	DRAWING NO.	61-332-2
APPROVED	[Signature]	DATE	7/31/90.		

KTC CMPO52
 KTC CMPO53

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BY	LTR	DESCRIPTION	DATE	APPROVED
slj	D	ADD NOTE 3, REDRAWN FOR CLARITY	7-12-96	[Signature]



PACKAGING
44-202-1 PLASTIC BOX
10-61-202 BOX, INDIVIDUAL

CMPO 252	61-23-2	60-256	60-291	3/8 RATC.	88-30-2	50-250 kgf.cm 5.4-24 Nm
CMPO 151	61-23-1	60-257	60-290	1/4 RATC.	88-30-1	30-150 kgf.cm 3.4-14.3 Nm
FOR	ITEM 10 PART NO.	ITEM 23 PART NO.	ITEM 28 PART NO.	DRIVE	BOX LABEL	RANGE

- ⚠ MUST BE PURCHASED FROM KTC (0122641-1).
 ⚠ ITEMS 3 THRU 7 MAY BE FURNISHED AS COMPLETE ASSEMBLY,
 HEX. ASSEMBLY (P/N 45-94-1) WITH ITEM 6 (P/N 45-6-1) FOR 150 kgf.cm.
 HEX. ASSEMBLY (P/N 45-94-2) WITH ITEM 6 (P/N 45-6-2) FOR 250 Kgf.cm.
 1. SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.

NOTES:

30	61-60	FULCRUM	1
29	10-102-24	PIN, FULCRUM	1
28	SEE BLOCK	LABEL, HANDLE	1
27	45-277	HANDLE GRIP	1
26	10-103-3	BUTTON PLUG, HANDLE	1
25	60-253	RETAINING RING	1
24	60-254	SPACER RING	1
23	SEE BLOCK	GUTS, RATCHET	1
22	60-258	RATCHET BODY	1
21	45-250	PIN, ROLLER	1
20	88-35	INSPECTION LABEL	1
19	88-36	INSTRUCTION LABEL	1
18	61-61	SECONDARY ARM	1
17	45-253-1	PAWL	1
16	45-251	CAM	1
15	60-64	SPRING, TORQUE	1
14	10-104-1	WASHER, FLAT	A/R
13	30-8	WASHER, THRUST	1
12	45-92	RIVET, PIVOT PIN	2
11	45-91	PIN, PIVOT	1
10	SEE BLOCK	TUBE ASSEMBLY (STAMPED)	1
9	45-137	CLIP, HEX RETAINER	1
8	45-75	WASHER, HEX LOCK	2
7	10-101-19	SOCKET SETSCREW, HEX BAR	1
6	⚠	PIN, LOCK HEX BAR	1
5	45-2	CLIP, SPRING HEX BAR	1
4	45-48	BAR, HEX. INTERNAL ADJUSTING	1
3	10-101-1	SOCKET SETSCREW, HEX BAR	1
2	46-1-1	HANDLE, PLASTIC (BLACK)	1
1	45-74	CLIP HANDLE	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
1/32 .001 .1/2°
.0001 .005

MATERIAL

FINISH

CONSORTED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO.ADJ.WRENCH 3/8 & 1/4 RATCHET
SERIES 61 50-250 & 30-150 kgf.cm

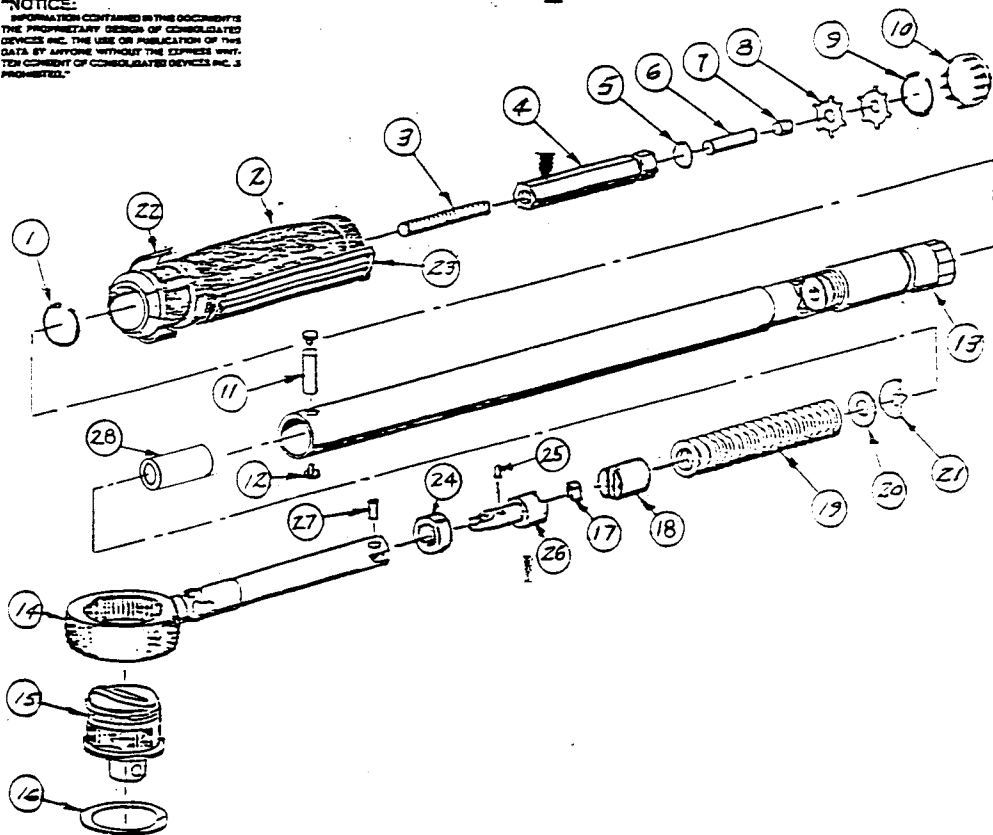
DRAWN	slj	SCALE	NONE	DRAWING NO.	61-342-2
APPROVED	[Signature]	DATE	7-31-90		

WITH SECONDARY ARM

KTC CMP0151
KTC CMP0252

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- △ ITEM 23 HANDLE GRIP FURNISHED IF REQUESTED.
 ▲ ITEMS 3 THRU 7 MAY BE FURNISHED AS COMPLETE ASSY.
 HEX ASSEMBLY (45-94-2) WITH ITEM 6 (45-6-2)

NOTE:

② IMPROVED DRAWING PROCEDURE
 REVISION NO. 02/81

NOTE: UNCONTROLLED COPY

REVISIONS				
BY	LT#	DESCRIPTION	DATE	APPROVED
SA	A	CHANGED NOTE ▲	8-17-93	Joy

28	95-28-1	SPACER	/
27	45-250	PIN, ROLLER	/
26	61-61	SECONDARY ARM	/
25	10-102-24	PIN, FULCRUM	/
24	61-60	FULCRUM	/
23	45-277	HANDLE GRIP	/
22	95-333	LABEL, HANDLE	/
21	30-8	WASHER, THRUST	/
20	10-104-1	WASHER, FLAT	AE
19	95-93	SPRING, TORQUE	/
18	45-251	CAM	/
17	45-253-1	PAWL	/
16	95-44	RETAINER RING RATCHET	/
15	95-54	GUTS. RATCHET	/
14	45-93-1	RATCHET BODY	/
13	96-94-2	TUBE ASSY. (ROLL STAND)	/
12	45-92	PIVOT, PIVOT PIN	Z
11	45-91	PIN, PIVOT	/
10	10-403-3	BUTTON PLUG, HANDLE	/
9	45-137	CLIP, HEX RETAINER	/
8	45-75	WASHER, HEX LOCK	Z
7	10-101-19	SOC SET SCREW, HEX BAR	/
6	▲	PIN, LOCK HEX BAR	/
5	45-2	CLIP, SPRING HEX. BAR	/
4	45-48	BAR, HEX. INT. ADJ.	/
3	10-401-1	SOC SET SCREW (HEX BAR)	/
2	46-1-1	HANDLE PLASTIC	/
1	45-74	CLIP, HANDLE	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±.001 ±.001 ±.4°
 ±.001 ±.001

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION

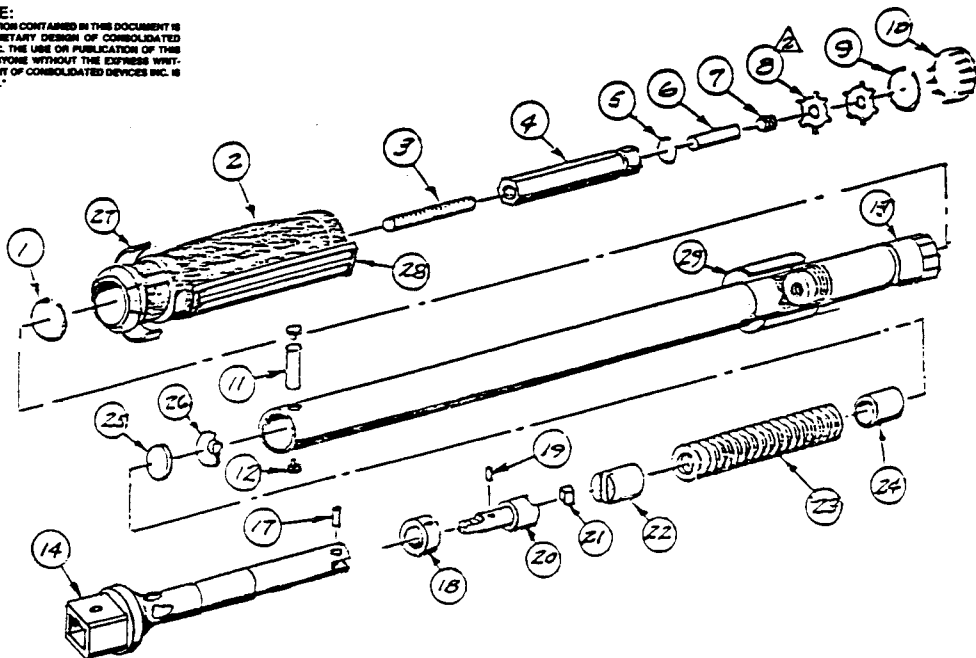
MICRO. ADJ. WRENCH 1/2 RATCH.

SER. 96 6-36 MKP 68.6-343.2 Nm

DESIGN	Z. J. S.	SCALE	NONE	DRAWING NO.	
APPROVED	JOL	DATE	8-22-91		96-132-4

WILLIAMS STW 3RCM

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-2	36 MKP (360 Nm)	46-2-4	95-217
-1	20 MKP (200 Nm)	46-2-2	95-214
TAB NO.	FOR	ITEM 13 PART NO.	ITEM 29 PART NO.

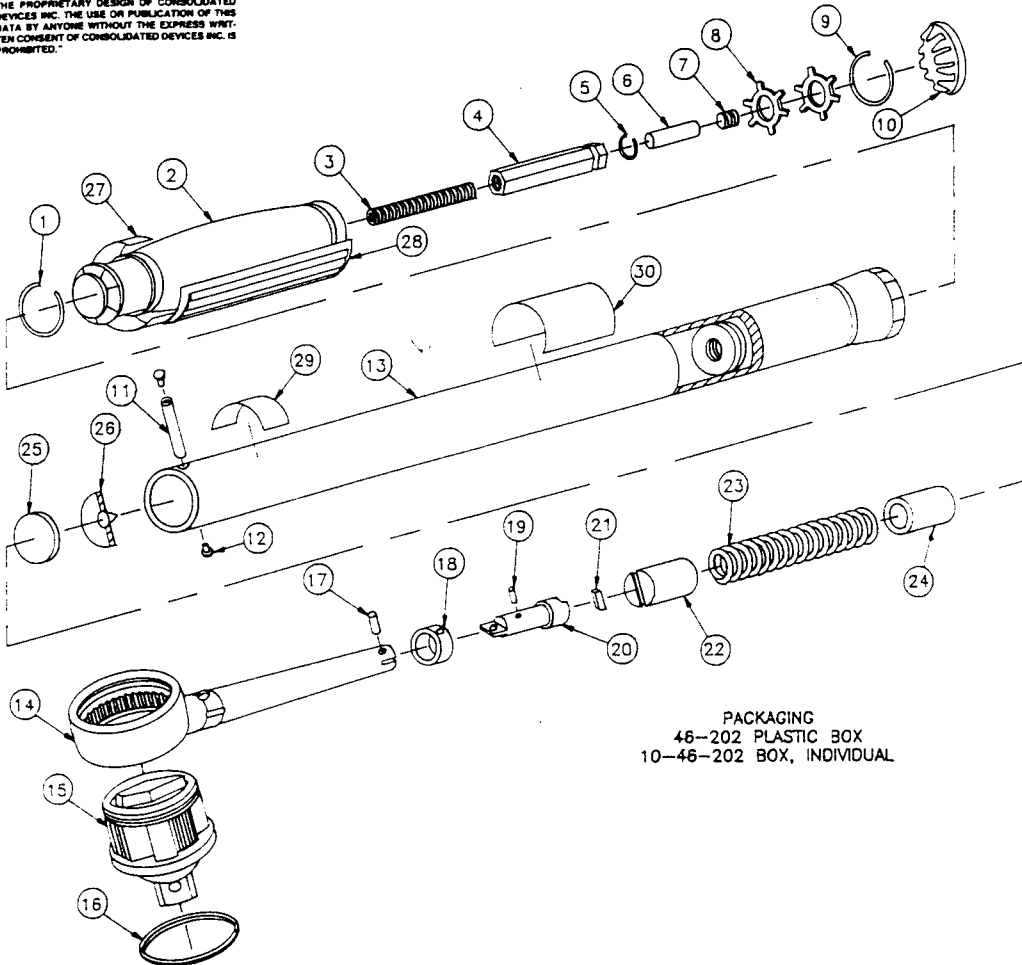
- ⚠ FOR WRENCHES TO BE RECALIBRATED, SEE 46-253-TAB.
 - ⚠ ITEM 28 HANDLE GRIP FURNISHED IF REQUESTED.
 - ⚠ ITEM B, NOT USED FOR 360 Nm.
 - ⚠ ITEMS 3 THRU 7 MAY BE FURNISHED AS COMPLETE ASSY.
 - A. HEX. ASSY. (45-94-1) WITH ITEM 6 (45-6-1) FOR 200 Nm
 - B. HEX. ASSY. (45-94-2) WITH ITEM 6 (45-6-2) FOR 360 Nm
- NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SG	A	CHANGED NOTE 1 B.	8-12-93	[Signature]
A.M.V.	B	DWG. NO. WAS 96-133-1, ADD TAB NO'S.	11-7-96	[Signature]

29	SEE BLOCK	LABEL TUBE	/
28	45-217	HANDLE GRIP	/
27	95-215	LABEL HANDLE	/
26	30-8	WASHER, THRUST	/
25	10-104-1	WASHER, FLAT	AIR
24	95-28-1	SPACER	/
23	95-93	SPRING TORQUE	/
22	45-251	CAM	/
21	45-253-1	PAWL	/
20	61-62	SECONDARY ARM	/
19	10-102-24	PIN, FULLRUM	/
18	61-60	FULCRUM	/
17	45-250	PIN, ROLLER	/
14	45-153	ARM CLICK, REPL. DRIVE	/
13	SEE BLOCK	TUBE ASSY.	/
12	45-92	RIVET, PIVOT PIN	2
11	45-91	PIN, PIVOT	/
10	10-103-3	BUTTON PLUG, HANDLE	/
9	45-137	CLIP, HEX RETAINER	/
8	45-75	WASHER, HEX. LOCK	2
7	10-101-19	SOC. SET SCREW, HEX BAR	/
6	11	PIN, LOCK HEX. BAR	/
5	45-2	CLIP, SPRING HEX. BAR	/
4	45-89	HEX. BAR, INTERNAL ADJ.	/
3	10-101-1	SOC. SET SCREW, HEX BAR	/
2	46-1-1	HANDLE, PLASTIC	/
1	45-74	CLIP, HANDLE	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 XX ± .01 ± 1/4° XXX ± .005			
MATERIAL		CONSOLIDATED DEVICES, INC. City of Industry, California	
FINISH		EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH REPLACEABLE DR.	
DRAWN		SER. 96 20MKP, 36MKP HERMAN WARNER	
APPROVED		DRAWING NO. 96-133-TAB	
		DATE 7/28/98.	

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PACKAGING
 46-202 PLASTIC BOX
 10-46-202 BOX, INDIVIDUAL

CMP 203	46-6-1	96-5-1	95-93	95-28-2	95-129	1/2	88-31-3	400-2000 Kgf.cm
FOR	ITEM 6	ITEM 13	ITEM 23	ITEM 24	ITEM 27	DRIVE	BOX LABEL	49.0-186.3 Nm
	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.			RANGE

1. SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.

NOTES:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
<i>SL</i>	B	ITEM 1 WAS 45-74, 46-202 WAS 46-202-1, REDRAWN	2-11-94	<i>SL</i>
<i>SL</i>	C	ITEM 24 WAS 95-28-1, 2 RECD	3-7-94	<i>SL</i>
<i>SL</i>	D	PART # WAS 96-332-2	1-3-95	<i>SL</i>

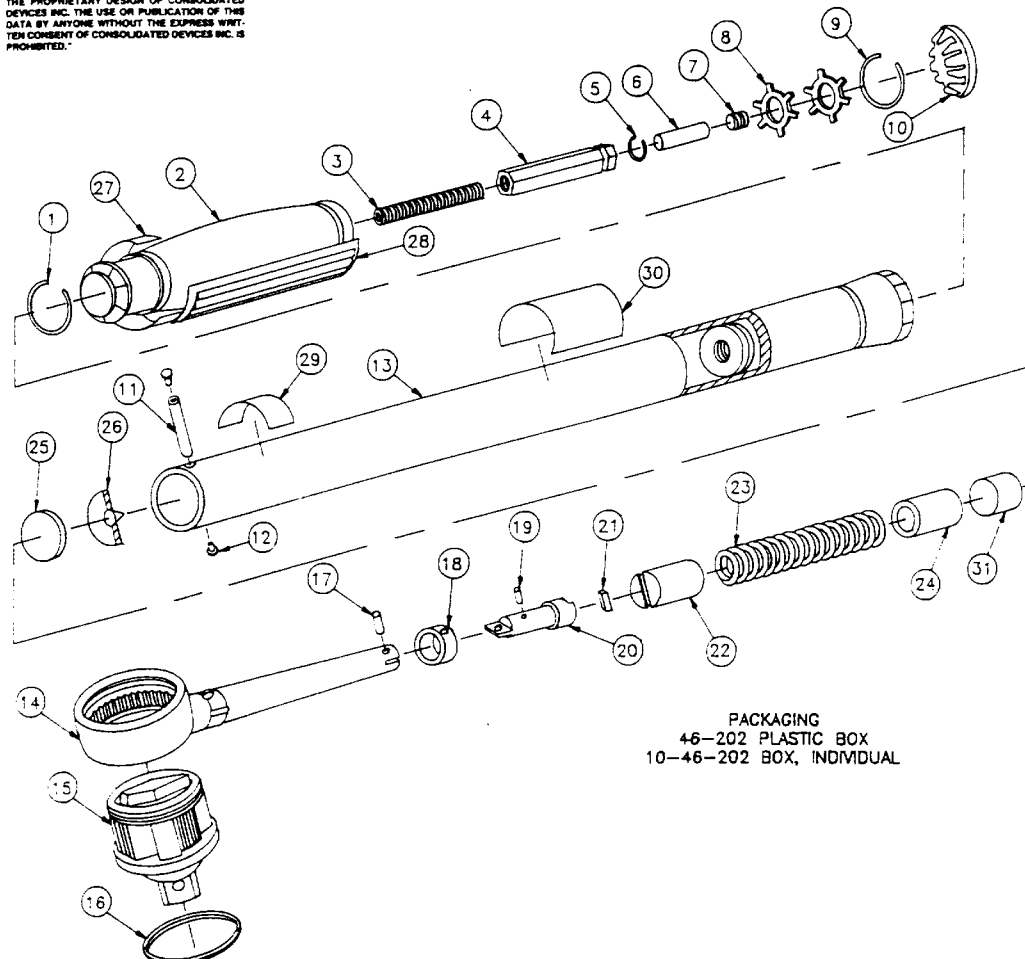
30	88-36	INSTRUCTION LABEL	1
29	88-35	INSPECTION LABEL	1
28	45-277	HANDLE GRIP	1
27	SEE BLOCK	LABEL, HANDLE	1
26	30-8	WASHER, THRUST	1
25	10-104-1	WASHER, FLAT	A/R
24	SEE BLOCK	SPACER	1
23	SEE BLOCK	SPRING, TORQUE	1
22	45-251	CAM	1
21	45-253-1	PAWL	1
20	61-62	SECONDARY ARM	1
19	10-102-24	PIN, FULCRUM	1
18	61-60	FULCRUM	1
17	45-250	PIN, ROLLER	1
16	95-44	RETAINER RING, RATCHET	1
15	95-54	GUTS, RATCHET	1
14	45-93-1	RATCHET BODY	1
13	SEE BLOCK	TUBE ASSEMBLY (ROLL STAMP)	1
12	45-92	RVET, PIVOT PIN	2
11	45-91	PIN, PIVOT	1
10	10-103-3	BUTTON PLUG, HANDLE	1
9	45-137	CLIP, HEX RETAINER	1
8	45-75	WASHER, HEX LOCK	2
7	10-101-19	SOCKET SETSCREW, HEX BAR	1
6	SEE BLOCK	PIN, LOCK HEX BAR	1
5	45-2	CLIP, SPRING HEX BAR	1
4	45-48	HEX BAR, INTERNAL ADJ.	1
3	10-101-1	SOCKET SETSCREW, HEX BAR	1
2	46-1-1	HANDLE, PLASTIC	1
1	45-74-1	CLIP HANDLE	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 XX ± .01 = 14° XXX ± .005	CONSOLIDATED DEVICES, INC. City of Industry, California	
	EXPLODED ILLUSTRATION MICRO.ADJ.WRENCH, 1/2 DR. RATCHET 2000 Kgf.cm	
MATERIAL	DRAWN <i>SL</i>	SCALE NONE
FINISH	APPROVED <i>SL</i>	DATE 7-31-90
		DRAWING NO. 96-333-2

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PACKAGING
 46-202 PLASTIC BOX
 10-46-202 BOX, INDIVIDUAL

CMP 303	46-6-1	96-25-1	95-93	95-28-1	95-130	1/2	88-31-4	600-3000 Kgf.cm
FOR	ITEM 6	ITEM 13	ITEM 23	ITEM 24	ITEM 27	DRIVE	BOX LABEL	58.6-284.4 Nm
	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.			RANGE

1. SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.

NOTES:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
SEP	C	ITEM 1 WAS 45-74, 46-202 WAS 46-202-1, REDRAWN	2-11-94	[Signature]

31	95-28-2	SPACER	1
30	88-36	INSTRUCTION LABEL	1
29	88-35	INSPECTION LABEL	1
28	45-277	HANDLE GRIP	1
27	SEE BLOCK	LABEL, HANDLE	1
26	30-8	WASHER, THRUST	1
25	10-104-1	WASHER, FLAT	A/R
24	SEE BLOCK	SPACER	2
23	SEE BLOCK	SPRING, TORQUE	1
22	45-251	CAM	1
21	45-253-1	PAWL	1
20	61-62	SECONDARY ARM	1
19	10-102-24	PIN, FULCRUM	1
18	61-60	FULCRUM	1
17	45-250	PIN, ROLLER	1
16	95-44	RETAINER RING, RATCHET	1
15	95-54	GUTS, RATCHET	1
14	45-93-1	RATCHET BODY	1
13	SEE BLOCK	TUBE ASSEMBLY (ROLL STAMP)	1
12	45-92	RIVET, PIVOT PIN	2
11	45-91	PIN, PIVOT	1
10	10-103-3	BUTTON PLUG, HANDLE	1
9	45-137	CLIP, HEX RETAINER	1
8	45-75	WASHER, HEX LOCK	2
7	10-101-19	SOCKET SETSCREW, HEX BAR	1
6	SEE BLOCK	PIN, LOCK HEX BAR	1
5	45-2	CLIP, SPRING HEX BAR	1
4	45-48	HEX BAR, INTERNAL ADJ.	1
3	10-101-1	SOCKET SETSCREW, HEX BAR	1
2	46-1-1	HANDLE, PLASTIC	1
1	45-74-1	CLIP, HANDLE	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 XX ± .01 ± 1/2°
 XXX ± .005

CONSOLIDATED DEVICES, INC.

City of Industry, California

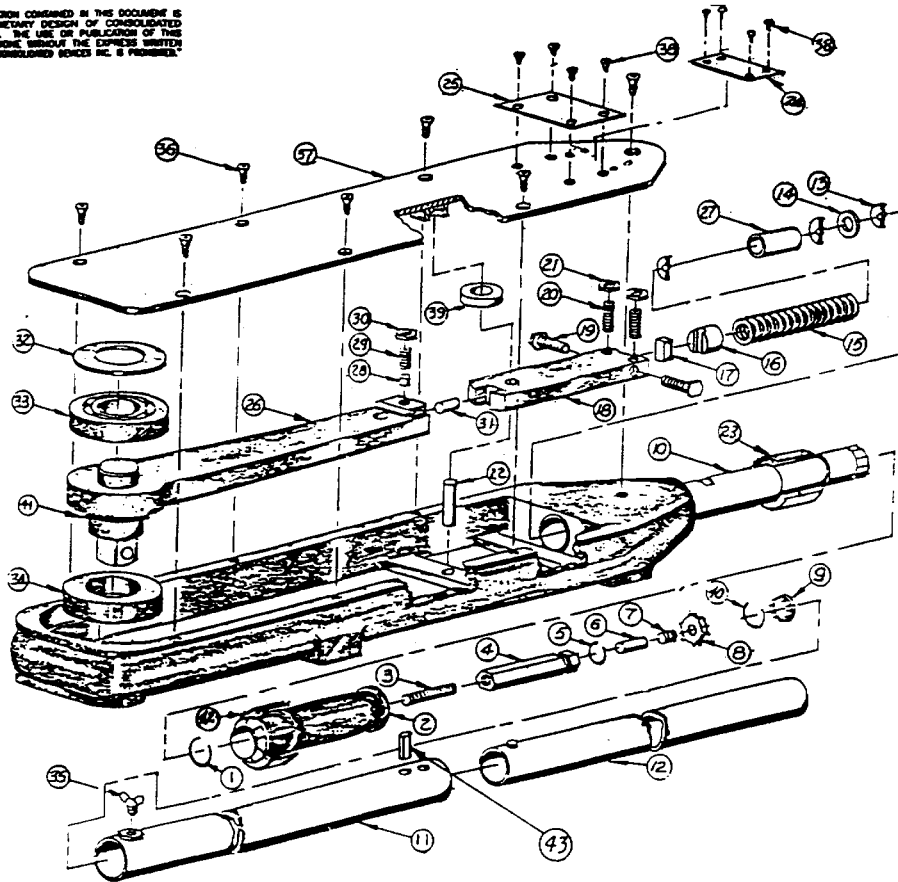
EXPLODED ILLUSTRATION
 MICRO.ADJ.WRENCH, 1/2 DR. RATCHET
 3000 Kgf.cm

MATERIAL	SERIES 96		DRAWING NO.
	DRAWN SEP	SCALE NONE	
FINISH	APPROVED [Signature]	DATE 3-9-90	96-342-2

KTC CMP303

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BY	LTR	DESCRIPTION	DATE	APPROVED
RR	G	ADD ITEM 43 (10-107-5) & REDRAWN FOR CLARITY.	6-8-99	Joy

43	10-107-5	SPRING, PIN	1
42	△ 10-146-7	LABEL, HANDLE	1
41	10-146-7	SHIMS	1
40	45-137	CLIP, HEX RETAINER	1
39	135-16	SPACER, SECONDARY ARM	1
38	10-142	DRIVE SCREW	8
37	135-58	TOP PLATE & BLOCK ASSY.	1
36	10-111-2	SCREW, SELF TAPPING	7
35	10-155	WING BOLT	1
34	10-133-9	BEARING, SHAFT, DRIVE	1
33	10-133-7	BEARING, PRIMARY ARM	1
32	135-15	SPACER, PRIMARY ARM	1
31	10-102-3	PIN ROLLER, PRIMARY ARM	1
30	10-138-3	HEX NUT, PRIMARY ARM	1
29	10-101-23	SOCKET SETSCREW, PRIMARY ARM	1
28	135-38	PIN, LOCK, PRIMARY ARM	1
27	95-28-1	SPACER	1
26	135-66	PRIMARY ARM, BLOCK & DRIVE ASSY.	1
25	△	NAME PLATE	1
24	136-63	PLATE (INSTRUCTION)	1
23	△	LABEL TUBE	1
22	10-102-2	PIN, ROLLER, SECONDARY ARM	1
21	10-138-5	HEX NUT, SECONDARY ARM	2
20	10-101-31	SOCKET SETSCREW, SECONDARY ARM	2
19	10-125-1	HEX HEAD MACHINE SCREW	2
18	135-3	SECONDARY ARM	1
17	45-231-1	PAWL	1
16	45-251	CAM	1
15	135-7	SPRING, TORQUE	1
14	10-104-1	WASHER, FLAT	A/R
13	30-8	WASHER, THRUST	4
12	135-13	EXTENSION, 2 ND HANDLE ASSY.	1
11	135-11	EXTENSION, HANDLE (FIRST HANDLE ASSY)	1
10	136-165-1	HOUSING & TUBE ASSY	1
9	10-103-3	BUTTON PLUG, HANDLE	1
8	45-75	WASHER, HEX LOCK	2
7	10-101-19	SOCKET SETSCREW, HEX BAR	1
6	10-102-36	PIN, LOCK, HEX BAR	1
5	45-2	CLIP SPRING, HEX BAR	1
4	45-48	BAR, HEX, INTERNAL ADJUSTMENTS	1
3	10-101-1	SOCKET SETSCREW, HEX BAR	1
2	46-1-1	HANDLE, PLASTIC	1
1	45-74	CLIP, HANDLE	1

△ 6

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

FRACTIONS DECIMALS ANGLES
: 1/32 .XX ± .01 : 1/2°
: .XXX .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1" DR. (PLAIN)

SER. 136		COMM.	
DRAWN	Z.J.S.	SCALE	DRAWING NO.
APPROVED	ZK	DATE	136-131-1
		11-21-91	

△ 6 OMIT ITEM NO. 12 FOR 1000FT.LB.

△ 4 SEE 135 SERIES PARTS LIST TO DETERMINE PART NO. FOR A PARTICULAR NAME PLATE (ITEM 25), HANDLE LABEL (ITEM 42) & TUBE LABEL (ITEM 23).

3. ITEMS 18 THRU 21 MAY BE FURNISHED AS ASS'Y. (PART NO. 135-64)

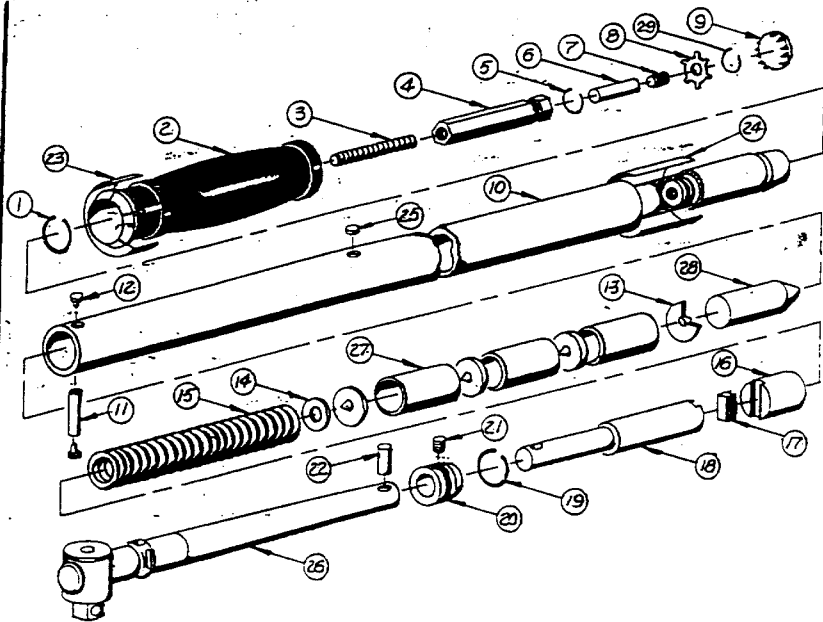
2. ITEMS 26, 28, 29, 30 & 31 MAY BE FURNISHED AS ASS'Y. (PART NO. 135-60)

1. ITEMS 3 THRU 7 MAY BE FURNISHED AS ASS'Y. (PART NO. 45-94-1)

NOTES:

NOTE: UNCONTROLLED COPY

20005MF



REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
GH	B	ADDED ITEM 29, 215-86 WAS KE-1R 45-253-3 WAS 45-AT-2; 215-82 WAS 10-10A-5; 45-L-2 WAS 45-L-1	2-21-86	[Signature]

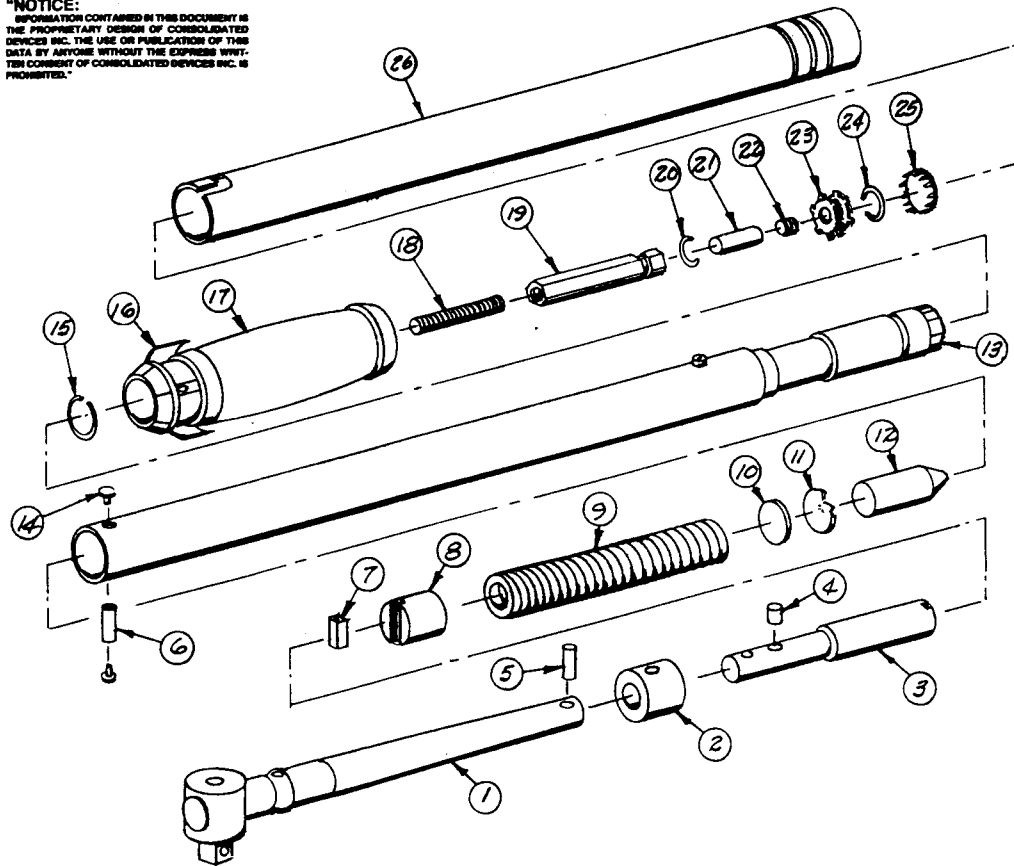
29	45-137	CLIP, HEX RETAINER.	1
28	215-40	SPACER, END TUBE.	1
27	215-20	SPACER	1
26	215-34	ARM & DRIVE ASS'Y	3
25	85-719	PLUG, ADJUSTING HOLE, TUBE	1
24	A	LABEL, TUBE	1
23	A	LABEL, HANDLE	1
22	10-102-4	PIN, ROLLER	1
21	10-101-2	SOCKET SETSCREW, FULCRUM	1
20	85-30	FULCRUM	1
19	215-28	CLIP SPRING, FULCRUM	1
18	215-29	SECONDARY ARM	1
17	45-253-3	PAWL	1
16	215-32	CAM	1
15	A	SPRING, TORQUE	1
14	215-82	WASHER, FLAT	1
13	85-10-2	WASHER, THRUST	1
12	45-92	RIVET, PIVOT PIN	2
11	215-97-1	PIN, PIVOT	1
10	215-16	TUBE ASS'Y	1
9	10-103-3	BUTTON, PLUG, HANDLE	1
8	45-75	WASHER, HEX LOCK	2
7	10-101-19	SOCKET SETSCREW, HEX BAR	1
6	45-6-2	PIN, LOCK, HEX BAR	1
5	45-2	CLIP SPRING, HEX BAR	1
4	45-48	BAR, HEX, INTERNAL ADJUSTING	1
3	10-101-1	SOCKET SETSCREW, HEX BAR	1
2	A	HANDLE, PLASTIC	1
1	45-74	CLIP, HANDLE	1

- ▲ USE PART NO. 215-86 (ITEM NO. 15) FOR 500 & 500⁺. USE PART NO. 215-21 FOR 4800 & 6000⁺.
- ▲ ITEM NO'S. 19 THRU 21 MAY BE FURNISHED AS ONE COMPLETE ASSEMBLY. (PART NO. 215-59)
- ▲ ITEM NO'S. 3 THRU 7 MAY BE FURNISHED AS ONE COMPLETE ASSEMBLY. (PART NO. 45-98-2)
- ▲ SEE 215 SERIES PARTS LIST TO DETERMINE PART NO. FOR A PARTICULAR HANDLE LABEL (ITEM NO. 23), TUBE LABEL (ITEM NO. 26).
- ▲ ITEM NO. 2, HANDLE, IS FURNISHED IN BLACK (PART NO. 45-37-1) OR IN RED (PART NO. 45-37-2).
- NOTES:

ITEM NO.	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .001 ± .01 ± 1° SEE 2005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION - MICRO. ADJ. WRENCH 3/4" DRIVE PLAIN HEAD 3800 & 5000 IN-LB - 500 & 600 FT-LB			
MATERIAL		DRAWN VUZ DATE 10-78-2 DRAWING NO.	
FINISH		APPROVED [Signature] SCALE NONE 215-73	

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⚠ FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB
 3. ITEMS 2, 3 & 4 MAY BE FURNISHED AS COMPLETE ASSY. (PART NO 216-59)
 2. ITEMS 18 THRU 22 MAY BE FURNISHED AS COMPLETE ASSY. (PART NO 45-92-2).

NOTE:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
ZJS	A	ADD 46-253-B TO ITEM 7, REMOVE NOTE 1.		

26	216-6	TUBE EXTENSION	/
25	10-103-3	BUTTON PLUG, HANDLE	/
24	45-137	CLIP, HEX. RETAINER	/
23	45-75	WASHER, HEX LOCK	2
22	10-101-19	SOG. SET SCREW, HEX BAR	/
21	45-6-2	PIN, LOCK, HEX BAR	/
20	45-2	CLIP SPRING, HEX BAR	/
19	45-4B	BAR, HEX. INTERNAL ADJUSTING	/
18	10-101-1	SOG. SET SCREW, HEX BAR	/
17	46-1-1	HANDLE, PLASTIC	/
16	215-294	LABEL, HANDLE	/
15	45-74	CLIP, HANDLE	/
14	45-92	RIVET, PIVOT PIN	2
13	216-5	TUBE ASSY. (ROLL STAMP)	/
12	215-40	SPACER, END TUBE	/
11	85-10-2	WASHER, THRUST	/
10	215-82-2	WASHER, FLAT	/
9	215-21	SPRING, TORQUE	/
8	215-32	CAM	/
7	46-253-3	PAWL	/
6	215-47-1	PIN, PIVOT	/
5	10-102-4	PIN, ROLLER	/
4	10-102-23	PIN, FULCRUM	/
3	216-61-2	SECONDARY ARM	/
2	216-60	FULCRUM	/
1	215-34	ARM & DRIVE ASSY.	/

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE
 FRACTIONS DECIMALS ANGLES
 $\pm 1/32$.XX $\pm .01$ $\pm 1/4^\circ$
 .XXX $\pm .005$

CONSOLIDATED DEVICES, INC.

City of Industry, California

EXPLODED ILLUSTRATION

3/4 DRIVE

SER 216 (SPEC. LGTH.)

DUTCH ARMY

DRAWN Z.J.S.

SCALE —

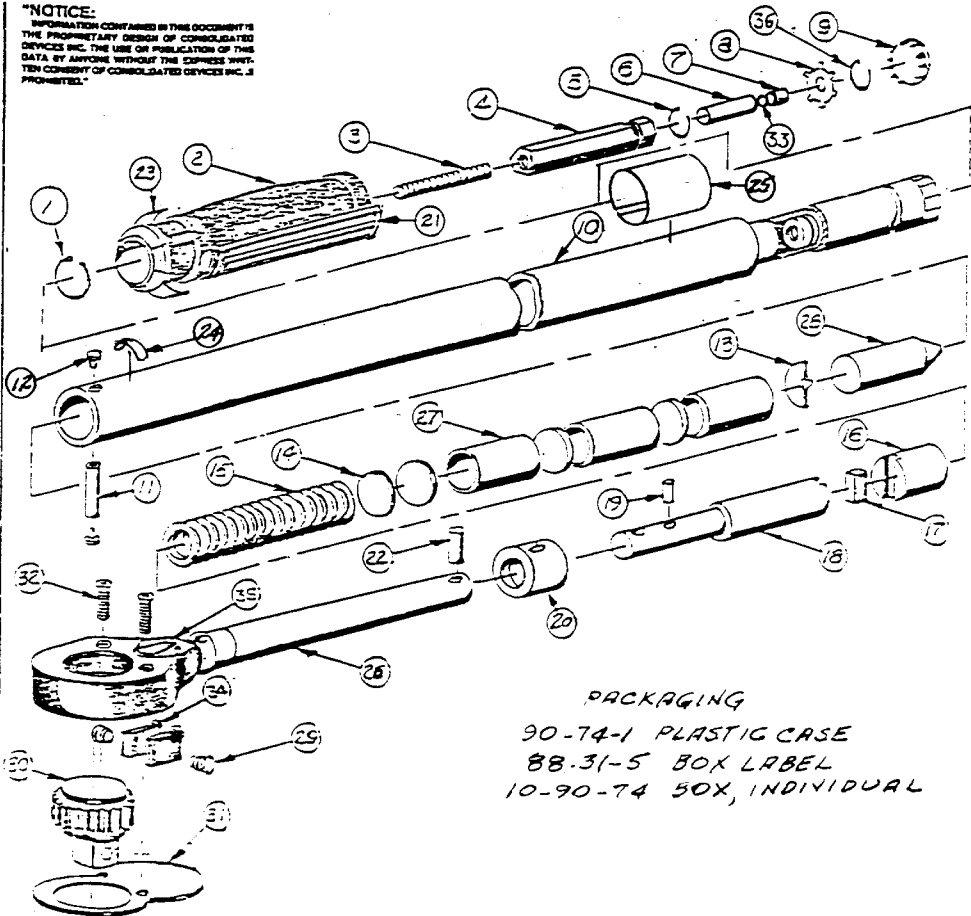
DRAWING NO.

APPROVED

DATE

216-231-1

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PACKAGING

- 90-74-1 PLASTIC CASE
- 88-31-5 BOX LABEL
- 10-90-74 BOX, INDIVIDUAL

⚠ ITEM 25, 29 THRU 35 PART FURNISHED AS SUBASSEMBLY PIN 215-99
 2 FOR 1 SQ. DR. (CMPB05) USE 215-253
 1 SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.

NOTES:

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
B.M.F	F	ADD NOTE AND ITEM 37	7-27-96	[Signature]

37	10-106-6	BALL SPHERICAL		
36	45-137	CLIP, HEX RETAINER.		
35	215-228 & 4	REVERSING LEVER & CAM.		1
34	215-223	PAWL		1
32	215-229	SCREW.		2
31	215-222	PLATE		1
30	215-225	RATCHET.		2
29	215-227	SPRING, CONICAL		1
28	216-40	SPACER, END TUBE.		2
27	215-20	SPACER.		1
26	215-232	RATCHET BODY.		3
25	88-36	INSTRUCTION LABEL		1
24	88-35	INSPECTION LABEL		1
23	215-251	LABEL, HANDLE		1
22	10-102-4	PIN, FOLLER.		1
21	45-277	HANDLE, GRIP		1
20	216-60	FULCRUM.		1
19	10-102-23	PIN, FULCRUM		1
18	216-61-3	SECONDARY ARM.		1
17	45-253-3	PAWL		1
16	215-32	CAM		1
15	215-21	SPRING, TORQUE.		1
14	215-32-2	WASHER, FLAT.		1
13	45-10-2	WASHER, THRUST.		1
12	45-92	RIVET, PIVOT PIN.		1
11	215-47-1	PIN, PIVOT.		2
10	216-3-4	TUBE ASSY.	(ROLL STAMP)	1
9	10-103-3	BUTTON, PLUG, HANDLE.		1
8	45-75	WASHER, HEX LOCK.		2
7	10-01-9	SOCKET, SETSCREW, HEX BAR.		1
6	45-6-1	PIN, LOCK, HEX BAR.		1
5	45-2	CLIP, SPRING, HEX BAR.		1
4	45-48	BAR, HEX, INTERNAL ADJUSTING.		1
3	10-01-1	SOCKET SETSCREW, HEX BAR.		1
2	46-1-1	HANDLE, PLASTIC BLACK.		1
1	45-74-1	CLIP, HANDLE		1

CODE IDENT	PART NO.	DESCRIPTION	RE.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±.002 ±.01 ±.4°			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 3/4 DR. RATCHET 1500-8000 Kgf-cm 172-760 N.m SERIES 216			
MATERIAL			
FINISH			
DRAWN	SCALE	DRAWING NO.	
APPROVED	DATE 7/31/90.	216-332-2	

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 PROHIBITED."

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
<i>slg</i>	H	P5 WAS 10K, NOW 2K P/N 81-16-2, ADD ITEM 46, REMOVE P5 ON ITEM 21. ITEM 22 WAS P/N 81-45, NOW 395-56-1 .01UF. REMOVE MODIFIED ON P3 & P4 (NO CUTS & NO JUMPERS ON SOLDER SIDE). R17 ONE SIDE WAS CONNECTED TO J2 PIN 10, NOW CONNECTED TO P5 PIN 3. CONNECT P5 PIN 2 TO R67 AS ON FIGURE 2. REMOVE JUMPER ON SOLDER SIDE ON J2 PIN 11 & 12. REMOVE 2 RESISTORS ON SOLDER SIDE (R72 & R71).	6/17/94	<i>D. Decker</i>
B.M.F.	I	REVISED PI.	9/9/96	<i>Z. E. Miller</i>

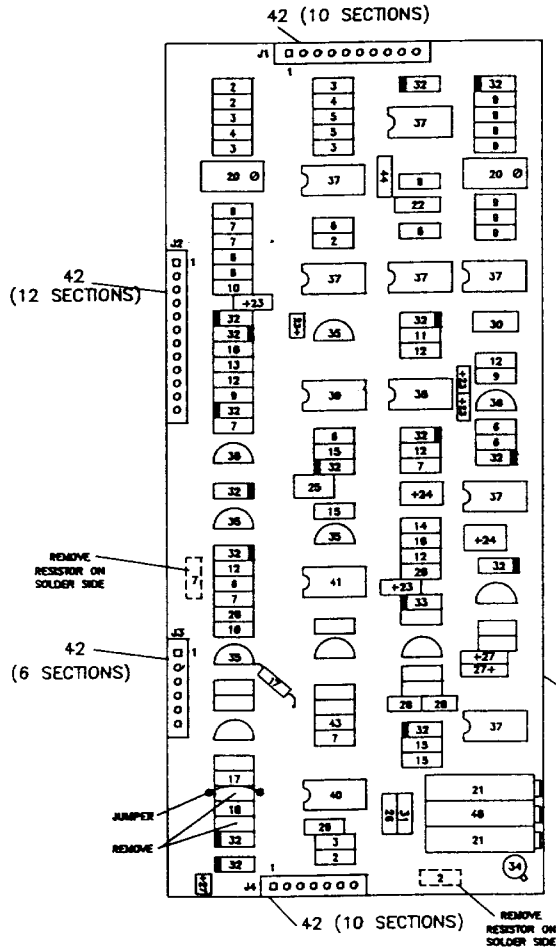


FIGURE 1

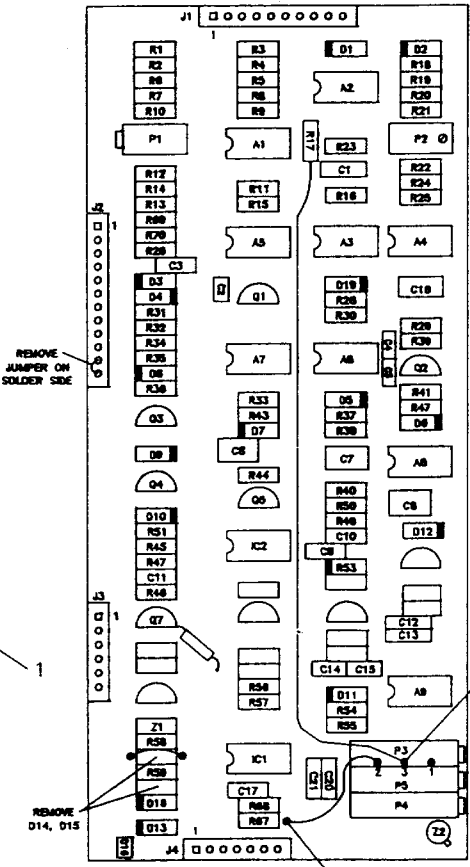


FIGURE 2

1. FOR SCHEMATIC DIAGRAM SEE 344-15-1.

NOTES:

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
FRACTIONS DECIMALS ANGLES			
$\frac{1}{32}$.031 $\frac{1}{8}$ $\frac{1}{16}$.062 30° $\frac{1}{4}$ $\frac{1}{8}$.125 45° $\frac{3}{8}$ $\frac{3}{16}$.1875 60° $\frac{1}{2}$ $\frac{1}{4}$.250 90° $\frac{5}{8}$ $\frac{3}{8}$.375 120° $\frac{3}{4}$ $\frac{1}{2}$.500 150° $\frac{7}{8}$ $\frac{5}{8}$.625 180° 1 $\frac{3}{4}$.750 270° $1\frac{1}{8}$ $\frac{7}{8}$.875 360° $1\frac{1}{4}$ 1 1.000 450° $1\frac{3}{4}$ $1\frac{1}{8}$ 1.125 540° 2 $1\frac{1}{4}$ 1.250 630° $2\frac{1}{8}$ $1\frac{3}{8}$ 1.375 720° $2\frac{1}{4}$ $1\frac{1}{2}$ 1.500 810° $2\frac{3}{8}$ $1\frac{5}{8}$ 1.625 900° $2\frac{1}{2}$ $1\frac{3}{4}$ 1.750 990° $2\frac{7}{8}$ $1\frac{7}{8}$ 1.875 1080° 3 2 2.000 1170° $3\frac{1}{8}$ $2\frac{1}{8}$ 2.125 1260° $3\frac{1}{4}$ $2\frac{1}{4}$ 2.250 1350° $3\frac{3}{8}$ $2\frac{3}{8}$ 2.375 1440° $3\frac{1}{2}$ $2\frac{1}{2}$ 2.500 1530° $3\frac{5}{8}$ $2\frac{5}{8}$ 2.625 1620° $3\frac{3}{4}$ $2\frac{3}{4}$ 2.750 1710° $3\frac{7}{8}$ $2\frac{7}{8}$ 2.875 1800° 4 3 3.000 1890° $4\frac{1}{8}$ $3\frac{1}{8}$ 3.125 1980° $4\frac{1}{4}$ $3\frac{1}{4}$ 3.250 2070° $4\frac{3}{8}$ $3\frac{3}{8}$ 3.375 2160° $4\frac{1}{2}$ $3\frac{1}{2}$ 3.500 2250° $4\frac{3}{4}$ $3\frac{5}{8}$ 3.625 2340° $4\frac{7}{8}$ $3\frac{3}{4}$ 3.750 2430° 5 $3\frac{7}{8}$ 3.875 2520° $5\frac{1}{8}$ 4 4.000 2610° $5\frac{1}{4}$ $4\frac{1}{8}$ 4.125 2700° $5\frac{3}{8}$ $4\frac{1}{4}$ 4.250 2790° $5\frac{1}{2}$ $4\frac{3}{8}$ 4.375 2880° $5\frac{5}{8}$ $4\frac{1}{2}$ 4.500 2970° $5\frac{3}{4}$ $4\frac{5}{8}$ 4.625 3060° $5\frac{7}{8}$ $4\frac{3}{4}$ 4.750 3150° 6 $4\frac{7}{8}$ 4.875 3240° $6\frac{1}{8}$ 5 5.000 3330° $6\frac{1}{4}$ $5\frac{1}{8}$ 5.125 3420° $6\frac{3}{8}$ $5\frac{1}{4}$ 5.250 3510° $6\frac{1}{2}$ $5\frac{3}{8}$ 5.375 3600° $6\frac{3}{4}$ $5\frac{1}{2}$ 5.500 3690° $6\frac{5}{8}$ $5\frac{5}{8}$ 5.625 3780° $6\frac{3}{4}$ $5\frac{3}{4}$ 5.750 3870° $6\frac{7}{8}$ $5\frac{7}{8}$ 5.875 3960° 7 6 6.000 4050° $7\frac{1}{8}$ $6\frac{1}{8}$ 6.125 4140° $7\frac{1}{4}$ $6\frac{1}{4}$ 6.250 4230° $7\frac{3}{8}$ $6\frac{3}{8}$ 6.375 4320° $7\frac{1}{2}$ $6\frac{1}{2}$ 6.500 4410° $7\frac{3}{4}$ $6\frac{5}{8}$ 6.625 4500° $7\frac{5}{8}$ $6\frac{3}{4}$ 6.750 4590° $7\frac{3}{4}$ $6\frac{7}{8}$ 6.875 4680° $7\frac{7}{8}$ 7 7.000 4770° 8 $7\frac{1}{8}$ 7.125 4860° $8\frac{1}{8}$ $7\frac{1}{4}$ 7.250 4950° $8\frac{1}{4}$ $7\frac{3}{8}$ 7.375 5040° $8\frac{3}{8}$ $7\frac{1}{2}$ 7.500 5130° $8\frac{1}{2}$ $7\frac{5}{8}$ 7.625 5220° $8\frac{3}{4}$ $7\frac{3}{4}$ 7.750 5310° $8\frac{5}{8}$ $7\frac{7}{8}$ 7.875 5400° $8\frac{3}{4}$ 8 8.000 5490° $8\frac{7}{8}$ $8\frac{1}{8}$ 8.125 5580° 9 $8\frac{1}{4}$ 8.250 5670° $9\frac{1}{8}$ $8\frac{3}{8}$ 8.375 5760° $9\frac{1}{4}$ $8\frac{1}{2}$ 8.500 5850° $9\frac{3}{8}$ $8\frac{5}{8}$ 8.625 5940° $9\frac{1}{2}$ $8\frac{3}{4}$ 8.750 6030° $9\frac{3}{4}$ $8\frac{7}{8}$ 8.875 6120° $9\frac{5}{8}$ 9 9.000 6210° $9\frac{3}{4}$ $9\frac{1}{8}$ 9.125 6300° $9\frac{7}{8}$ $9\frac{1}{4}$ 9.250 6390° 10 $9\frac{3}{8}$ 9.375 6480° $10\frac{1}{8}$ $9\frac{1}{2}$ 9.500 6570° $10\frac{1}{4}$ $9\frac{5}{8}$ 9.625 6660° $10\frac{3}{8}$ $9\frac{3}{4}$ 9.750 6750° $10\frac{1}{2}$ $9\frac{7}{8}$ 9.875 6840° $10\frac{3}{4}$ 10 10.000 6930° $10\frac{5}{8}$ $10\frac{1}{8}$ 10.125 7020° $10\frac{3}{4}$ $10\frac{1}{4}$ 10.250 7110° $10\frac{7}{8}$ $10\frac{3}{8}$ 10.375 7200° 11 $10\frac{1}{2}$ 10.500 7290° $11\frac{1}{8}$ $10\frac{5}{8}$ 10.625 7380° $11\frac{1}{4}$ $10\frac{3}{4}$ 10.750 7470° $11\frac{3}{8}$ $10\frac{7}{8}$ 10.875 7560° $11\frac{1}{2}$ 11 11.000 7650° $11\frac{3}{4}$ $11\frac{1}{8}$ 11.125 7740° $11\frac{5}{8}$ $11\frac{1}{4}$ 11.250 7830° $11\frac{3}{4}$ $11\frac{3}{8}$ 11.375 7920° $11\frac{7}{8}$ $11\frac{1}{2}$ 11.500 8010° 12 $11\frac{5}{8}$ 11.625 8100° $12\frac{1}{8}$ $11\frac{3}{4}$ 11.750 8190° $12\frac{1}{4}$ $11\frac{7}{8}$ 11.875 8280° $12\frac{3}{8}$ 12 12.000 8370° $12\frac{1}{2}$ $12\frac{1}{8}$ 12.125 8460° $12\frac{3}{4}$ $12\frac{1}{4}$ 12.250 8550° $12\frac{5}{8}$ $12\frac{3}{8}$ 12.375 8640° $12\frac{3}{4}$ $12\frac{1}{2}$ 12.500 8730° $12\frac{7}{8}$ $12\frac{5}{8}$ 12.625 8820° 13 $12\frac{3}{4}$ 12.750 8910° $13\frac{1}{8}$ $12\frac{7}{8}$ 12.875 9000° $13\frac{1}{4}$ 13 13.000 9090° $13\frac{3}{8}$ $13\frac{1}{8}$ 13.125 9180° $13\frac{1}{2}$ $13\frac{1}{4}$ 13.250 9270° $13\frac{3}{4}$ $13\frac{3}{8}$ 13.375 9360° $13\frac{5}{8}$ $13\frac{1}{2}$ 13.500 9450° $13\frac{3}{4}$ $13\frac{5}{8}$ 13.625 9540° $13\frac{7}{8}$ $13\frac{3}{4}$ 13.750 9630° 14 $13\frac{7}{8}$ 13.875 9720° $14\frac{1}{8}$ 14 14.000 9810° $14\frac{1}{4}$ $14\frac{1}{8}$ 14.125 9900° $14\frac{3}{8}$ $14\frac{1}{4}$ 14.250 9990° $14\frac{1}{2}$ $14\frac{3}{8}$ 14.375 10080° $14\frac{3}{4}$ $14\frac{1}{2}$ 14.500 10170° $14\frac{5}{8}$ $14\frac{5}{8}$ 14.625 10260° $14\frac{3}{4}$ $14\frac{3}{4}$ 14.750 10350° $14\frac{7}{8}$ $14\frac{7}{8}$ 14.875 10440° 15 15 15.000 10530° $15\frac{1}{8}$ $15\frac{1}{8}$ 15.125 10620° $15\frac{1}{4}$ $15\frac{1}{4}$ 15.250 10710° $15\frac{3}{8}$ $15\frac{3}{8}$ 15.375 10800° $15\frac{1}{2}$ $15\frac{1}{2}$ 15.500 10890° $15\frac{3}{4}$ $15\frac{5}{8}$ 15.625 10980° $15\frac{5}{8}$ $15\frac{3}{4}$ 15.750 11070° $15\frac{3}{4}$ $15\frac{7}{8}$ 15.875 11160° $15\frac{7}{8}$ 16 16.000 11250° 16 $16\frac{1}{8}$ 16.125 11340° $16\frac{1}{8}$ $16\frac{1}{4}$ 16.250 11430° $16\frac{1}{4}$ $16\frac{3}{8}$ 16.375 11520° $16\frac{3}{8}$ $16\frac{1}{2}$ 16.500 11610° $16\frac{1}{2}$ $16\frac{5}{8}$ 16.625 11700° $16\frac{3}{4}$ $16\frac{3}{4}$ 16.750 11790° $16\frac{5}{8}$ $16\frac{7}{8}$ 16.875 11880° $16\frac{3}{4}$ 17 17.000 11970° $16\frac{7}{8}$ $17\frac{1}{8}$ 17.125 12060° 17 $17\frac{1}{4}$ 17.250 12150° $17\frac{1}{8}$ $17\frac{3}{8}$ 17.375 12240° $17\frac{1}{4}$ $17\frac{1}{2}$ 17.500 12330° $17\frac{3}{8}$ $17\frac{5}{8}$ 17.625 12420° $17\frac{1}{2}$ $17\frac{3}{4}$ 17.750 12510° $17\frac{3}{4}$ $17\frac{7}{8}$ 17.875 12600° $17\frac{5}{8}$ 18 18.000 12690° $17\frac{3}{4}$ $18\frac{1}{8}$ 18.125 12780° $17\frac{7}{8}$ $18\frac{1}{4}$ 18.250 12870° 18 $18\frac{3}{8}$ 18.375 12960° $18\frac{1}{8}$ $18\frac{1}{2}$ 18.500 13050° $18\frac{1}{4}$ $18\frac{5}{8}$ 18.625 13140° $18\frac{3}{8}$ $18\frac{3}{4}$ 18.750 13230° $18\frac{1}{2}$ $18\frac{7}{8}$ 18.875 13320° $18\frac{3}{4}$ 19 19.000 13410° $18\frac{5}{8}$ $19\frac{1}{8}$ 19.125 13500° $18\frac{3}{4}$ $19\frac{1}{4}$ 19.250 13590° $18\frac{7}{8}$ $19\frac{3}{8}$ 19.375 13680° 19 $19\frac{1}{2}$ 19.500 13770° $19\frac{1}{8}$ $19\frac{5}{8}$ 19.625 13860° $19\frac{1}{4}$ $19\frac{3}{4}$ 19.750 13950° $19\frac{3}{8}$ $19\frac{7}{8}$ 19.875 14040° $19\frac{1}{2}$ 20 20.000 14130° $19\frac{3}{4}$ $20\frac{1}{8}$ 20.125 14220° $19\frac{5}{8}$ $20\frac{1}{4}$ 20.250 14310° $19\frac{3}{4}$ $20\frac{3}{8}$ 20.375 14400° $19\frac{7}{8}$ $20\frac{1}{2}$ 20.500 14490° 20 $20\frac{5}{8}$ 20.625 14580° $20\frac{1}{8}$ $20\frac{3}{4}$ 20.750 14670° $20\frac{1}{4}$ $20\frac{7}{8}$ 20.875 14760° $20\frac{3}{8}$ 21 21.000 14850° $20\frac{1}{2}$ $21\frac{1}{8}$ 21.125 14940° $20\frac{3}{4}$ $21\frac{1}{4}$ 21.250 15030° $20\frac{5}{8}$ $21\frac{3}{8}$ 21.375 15120° $20\frac{3}{4}$ $21\frac{1}{2}$ 21.500 15210° $20\frac{7}{8}$ $21\frac{5}{8}$ 21.625 15300° 21 $21\frac{3}{4}$ 21.750 15390° $21\frac{1}{8}$ $21\frac{7}{8}$ 21.875 15480° $21\frac{1}{4}$ 22 22.000 15570° $21\frac{3}{8}$ $22\frac{1}{8}$ 22.125 15660° $21\frac{1}{2}$ $22\frac{1}{4}$ 22.250 15750° $21\frac{3}{4}$ $22\frac{3}{8}$ 22.375 15840° $21\frac{5}{8}$ $22\frac{1}{2}$ 22.500 15930° $21\frac{3}{4}$ $22\frac{5}{8}$ 22.625 16020° $21\frac{7}{8}$ $22\frac{3}{4}$ 22.750 16110° 22 $22\frac{7}{8}$ 22.875 16200° $22\frac{1}{8}$ 23 23.000 16290° $22\frac{1}{4}$ $23\frac{1}{8}$ 23.125 16380° $22\frac{3}{8}$ $23\frac{1}{4}$ 23.250 16470° $22\frac{1}{2}$ $23\frac{3}{8}$ 23.375 16560° $22\frac{3}{4}$ $23\frac{1}{2}$ 23.500 16650° $22\frac{5}{8}$ $23\frac{5}{8}$ 23.625 16740° $22\frac{3}{4}$ $23\frac{3}{4}$ 23.750 16830° $22\frac{7}{8}$ $23\frac{7}{8}$ 23.875 16920° 23 24 24.000 17010° $23\frac{1}{8}$ $24\frac{1}{8}$ 24.125 17100° $23\frac{1}{4}$ $24\frac{1}{4}$ 24.250 17190° $23\frac{3}{8}$ $24\frac{3}{8}$ 24.375 17280° $23\frac{1}{2}$ $24\frac{1}{2}$ 24.500 17370° $23\frac{3}{4}$ $24\frac{5}{8}$ 24.625 17460° $23\frac{5}{8}$ $24\frac{3}{4}$ 24.750 17550° $23\frac{3}{4}$ $24\frac{7}{8}$ 24.875 17640° $23\frac{7}{8}$ 25 25.000 17730° 24 $25\frac{1}{8}$ 25.125 17820° $24\frac{1}{8}$ $25\frac{1}{4}$ 25.250 17910° $24\frac{1}{4}$ $25\frac{3}{8}$ 25.375 18000° $$			

BY	LTR	DESCRIPTION	DATE	APPROVED
B.M.F.	D	ITEM 2 R3, R6 WAS R1, R2. ITEM 3 QTY. WAS 5 (OMIT R3, R6) ITEM 4 P/N WAS 81-10-5 ITEM 6 QTY. WAS 9 (OMIT R70) ITEM 45 P/N WAS 344-59 ITEM 20 QTY. WAS 2 (OMIT P1) ITEM 19 ADD P1	9/19/86	D. Duran

ITEM #	QTY.	BOARD #	PART #	VALUE
46	1	P5	81-16-2	2K Pot
45	1	D14	JUMPER	
44	1	R17	81-10-30	9.53K
43	1	R56	81-10-46	205KOHM
42	1	TERMINAL	344-18	
41	1	1C2	344-25	1CM7555UA
39	1	1C1	81-20-1	1CL7684CPA
38	1	A7	395-84-2	TL022CP
37	7	A1,A2,A3,A4,A5,A8,A9	344-22	L1012CN8
36	2	Q2,Q3	81-12-1	OP07CN8
35	4	Q1,Q4,Q5,Q7	81-18-2	557C
34	1	Z2	81-18-1	547B
33	1	Z8	395-104	LT1004MH-1
32	14	D1 THRU D13,D19,D16	81-17	IN752A
31	1	C20	81-21	IN4148
30	1	C18	82-54-1	.1uf
29	1	C17	395-56-3	.47uf
28	2	C14,C15	81-11-7	47.3uf
27	3	C12,C13,C16	81-11-1	10nf
26	3	C10,C11	81-22-3	22uf
25	1	C8	82-54-2	.22uf
24	2	C6,C7	495-89	1uf
23	5	C2,C3,C4,C5,C9	81-22-1	1.0uf
22	1	C1	81-22-2	4.7uf
21	2	P3,P4	395-56-1	.01uf
20	1	P2	81-16-3	10K
19	1	P1	395-83-3	10K
18	1		344-14	10K
17	2	R58,R73	81-10-3	15 OHM
16	1	R50	81-10-14	90.9K
15	4	R43,R44,R54,R55	81-10-18	274K
14	1	R40	81-10-15	100K
13	1	R32	81-10-43	4.99M
12	6	R29,R30,R34,R37,R49,R51	81-10-42	475K
11	1	R28	81-10-44	49.9 OHM
10	3	R28,R46,R59	81-19-10	100 OHM
9	10	R18 THRU R25,R35,R39	81-10-11	10K
8	1	R16	81-10-4	15K
7	6	R13,R14,R36,R38,R47,R57	81-10-20	1M
6	8	R11,R12,R33,R31,R41	81-10-12	22.1K
5	2	R5,R8	81-10-13	47.5K
4	2	R4,R7	JUMPER	
3	3	R9,R10,R68	81-10-35	6.34K
2	4	R3,R6,R15,R67	81-10-8	2.21K
1	1	MAIN BOARD	344-42	
ITEM #	QTY.	BOARD #	PART #	VALUE

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/32 ± .01 ± 1/2°
MATERIAL SOURCE: 0001, 0005

1. FOR SCHEMATIC DIAGRAM SEE 344-15-1.
NOTES:

CONSOLIDATED DEVICES, INC.
City of Industry, California

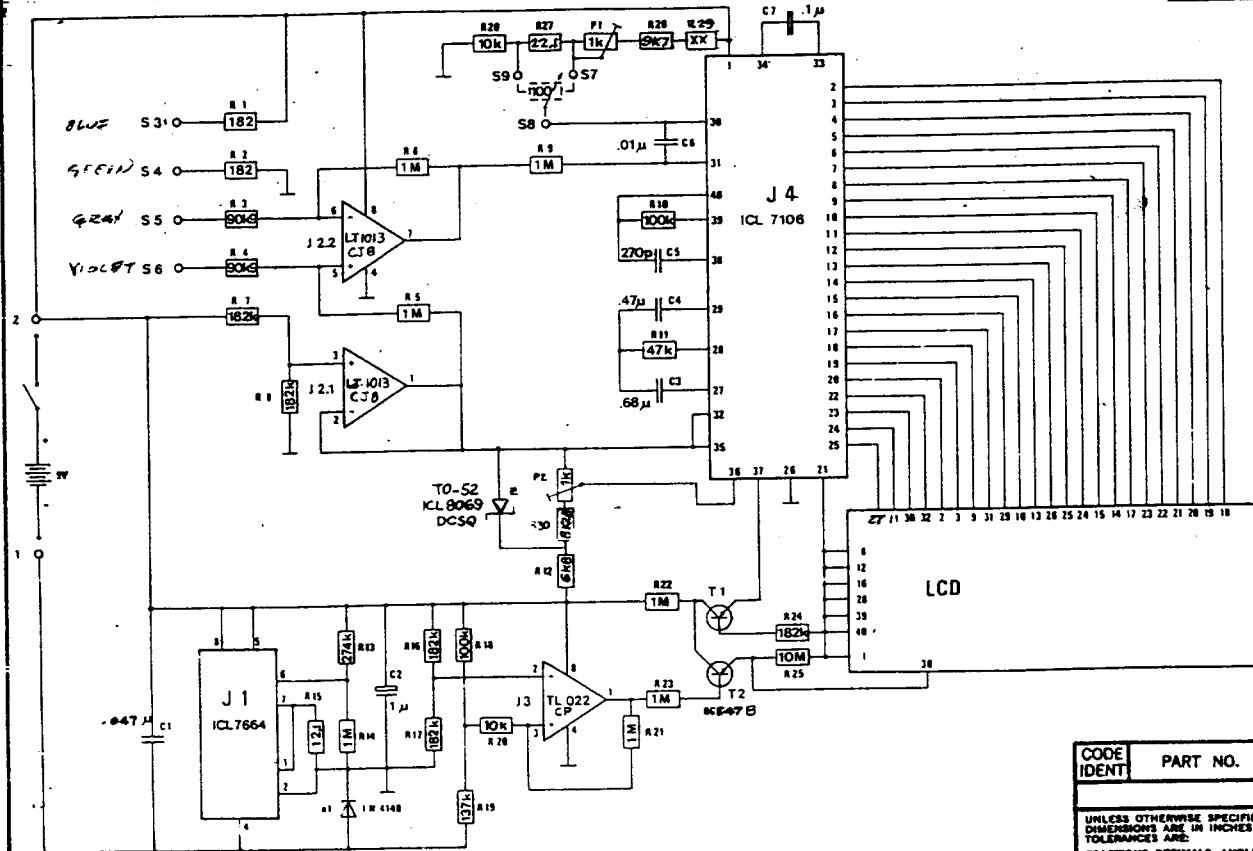
PARTS LIST FOR
COMPONENT ASSEMBLY
(MAIN BOARD) ETT-2
25,50,250 & 1000 IN.LB., 250 & 600 FT.LB.

DRAWN *A.J.P.* SCALE NONE DRAWING NO. 344-48
APPROVED *B. Duran* DATE 1-28-89

SHEET 2 OF 2

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
EJS	A	REV. TO CHANGE DATED 12-22-83	7-5-84	<i>[Signature]</i>
GH	B	ADDED COMPONENTS FOR TEMP. COMPENSATION	7-26-85	<i>[Signature]</i>
GH	C	395-47-1 WAS 395-47	9-12-86	<i>[Signature]</i>



1. FOR PC BOARD COMPONENT PART NO'S, SEE DWG. NO. 395-45
NOTE:

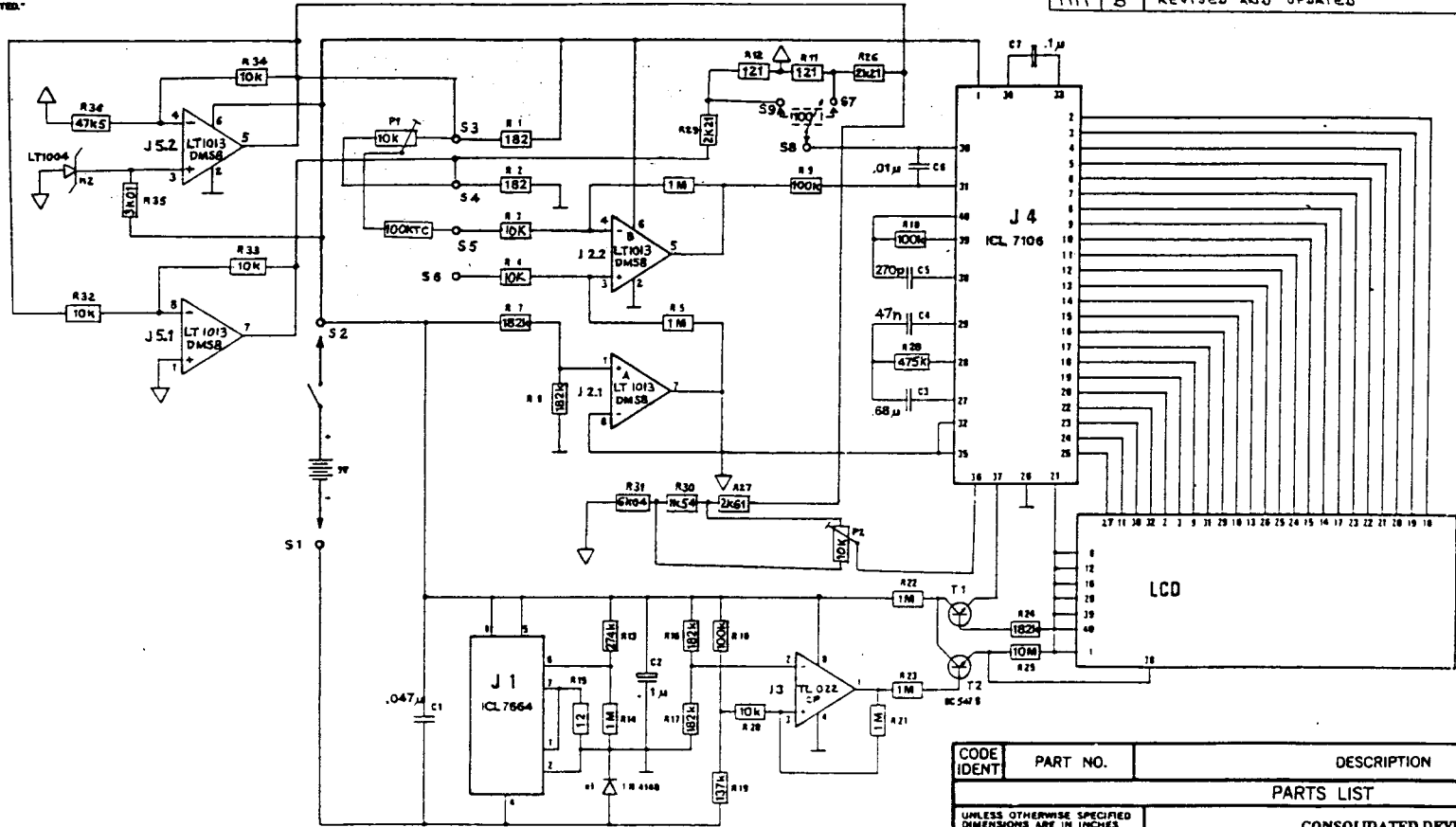
CODE IDENT	PART NO.	DESCRIPTION	REQQ
PARTS LIST			
CONSOLIDATED DEVICES, INC. City of Industry, California			
PC BOARD, SCHEMATIC "D" POWER TORQUE 1200 FT. LB.			
DRAWN <i>EJS</i>		SCALE -	DRAWING NO. 395-47-1
APPROVED <i>[Signature]</i>		DATE 7-5-84	

NOTE: UNCONTROLLED COPY

DPT 1200 PC

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
GH	A	10K WAS 9K31 POSITION R3 & R4	11-25-86	<i>[Signature]</i>
MM	B	REVISED AND UPDATED	07/20/87	<i>[Signature]</i>

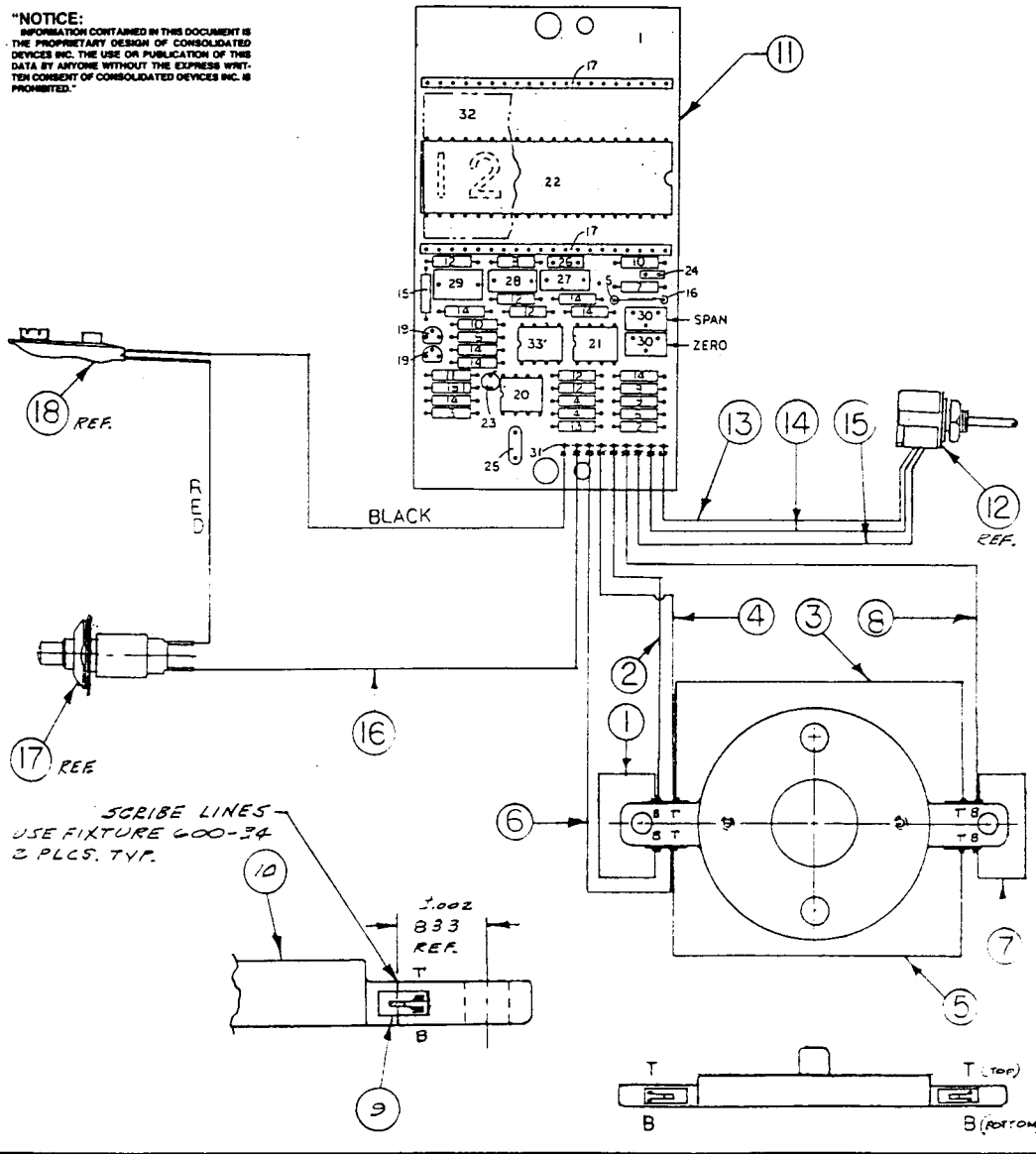


1. FOR PC BOARD COMPONENTS PART NUMBERS,
 SEE DRAWING NO'S 395-107 & 395-45-2.
NOTES

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .XX ± .01 = 1/8° .XXX = .005			
MATERIAL			
FINISH			
DRAWN GH		SCALE —	DRAWING NO.
APPROVED <i>[Signature]</i>		DATE 9-11-86	395-47-2

DPT 1200 DIGITAL

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SCRIBE LINES
 USE FIXTURE 600-34
 2 PLS. TYP.

REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
GH	D	REVISED, REDRAWN & UPDATED	7.23.88.	<i>[Signature]</i>
ZJS	E	PART NO. WAS 395-66, ITEM 11 WAS 395-45	3/8/88.	<i>[Signature]</i>

18	81-37	BATTERY PLUG (9 VOLT).	1
17	395-55	PUSHBUTTON SWITCH.	1
16	81-59-5	WIRE, RED. 6 1/2" LONG.	1
15	81-59-7	WIRE, YELLOW. 3 1/2" LONG.	1
14	81-59-6	WIRE, WHITE. 3 1/2" LONG.	1
13	81-59-8	WIRE, ORANGE. 3 1/2" LONG.	1
12	395-53	POTENTIOMETER.	1
11	395-45-1	PC BOARD COMPONENTS.	1
10	395-44	PLATE, TORQUE SENSING. (REF 17-4 STAINLESS.)	1
9	81-14	STRAIN GAGE.	4
8	81-59-4	WIRE, VIOLET. 14" LONG.	1
7	81-59-4	WIRE, VIOLET. 5" LONG.	1
6	81-59-3	WIRE, BLUE. 11" LONG.	1
5	81-59-3	WIRE, BLUE. 11" LONG.	1
4	81-59-2	WIRE, GREEN. 11" LONG.	1
3	81-59-2	WIRE, GREEN. 11" LONG.	1
2	81-59-1	WIRE, GRAY. 11" LONG.	1
1	81-59-1	WIRE, GRAY. 5 1/2" LONG.	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
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PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 XX ± .01 ± 1/4° XXX ± .005			
CONSOLIDATED DEVICES, INC. City of Industry, California			
WIRING ASSY DPT 1200			
MATERIAL			
FINISH			
DRAWN	GH	SCALE	NONE
APPROVED	<i>[Signature]</i>	DATE	7.23.88.
			DRAWING NO. 395-66-1

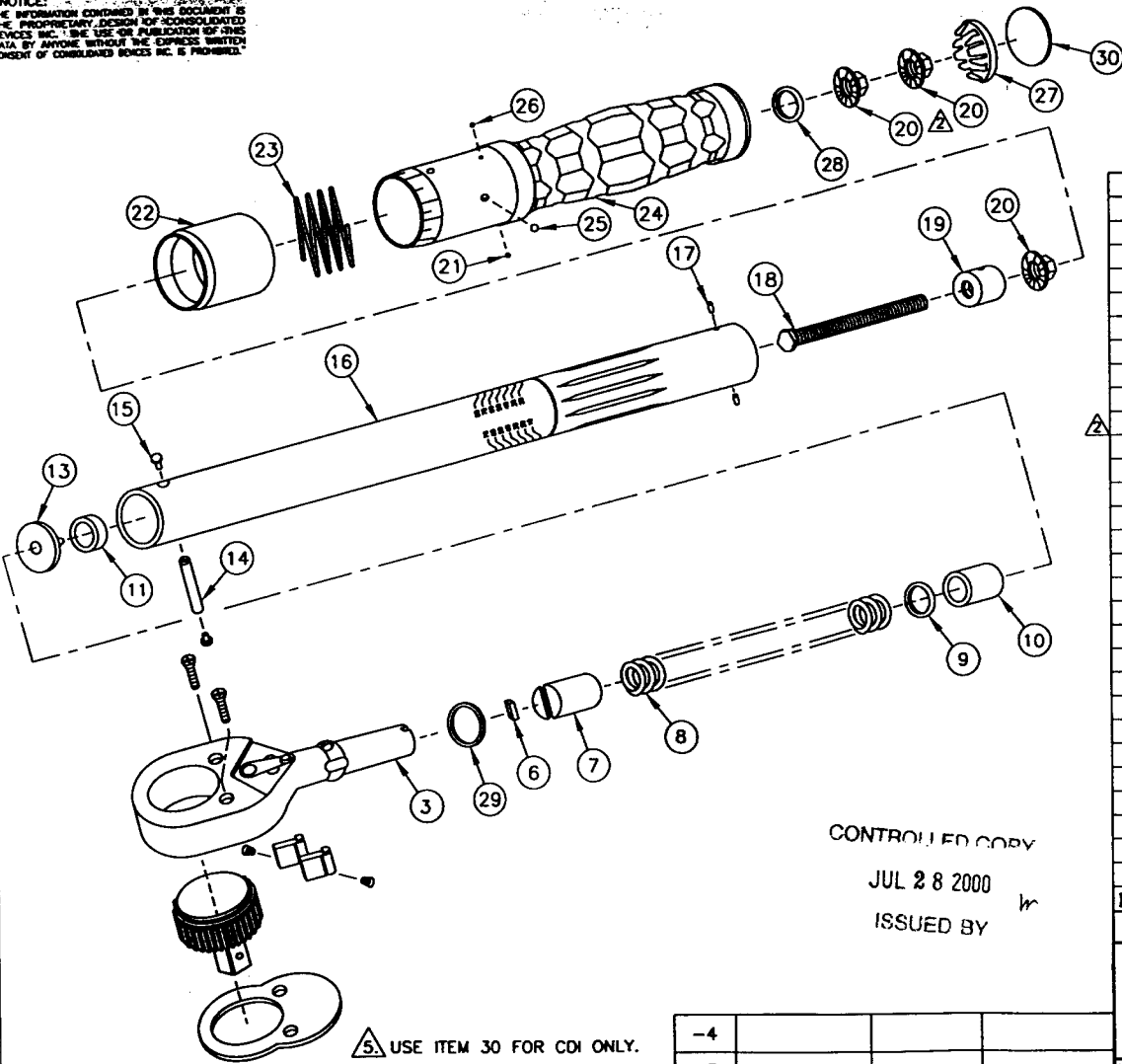
DPT 1200 WIRING

ⓑ BISHOP GRAPHICS/ACUPRESS
 REORDER NO. A2041

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	C	DELETE NOTE 4	12-23-98	Jay



CONTROLLED COPY
 JUL 28 2000
 ISSUED BY

△ USE ITEM 30 FOR CDI ONLY.

3. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.

△ ITEM 20 ASSEMBLY AS SHOWN.

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

-4			
-3			
△ -2	47-346-4	CDI	10002MRPH
①	47-366-4	Park Tool	TW-4
TAB NO.	△ ITEM NO. 22	CUSTOMER	MODEL NO.

30	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
29	10-241-1	O-RING	1
28	10-304	WASHER	1
27	10-103-3	BUTTON PLUG	1
26	10-106-2	BALL (.1094 DIA.)	1
25	10-106-5	BALL (5/32)	1
24	47-344-27	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	3
19	47-241	INSERT, TUBE	1
18	47-342-2	ADJUSTING SCREW (2.75 LONG)	1
17	47-240	PIN	2
16	96-204-8	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12			
11	95-28-3	SPACER (.60 LONG)	1
10	95-28-2	SPACER (1.00 LONG)	1
9	10-104-1	WASHER, FLAT	A/R
8	95-93	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5			
4			
3	46-500-12	RATCHET BODY	1
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGELS
 ±1/32 .001 ±1/2°
 XXXX.DDS

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/8 DR. RATCHET
 1000 IN.LB. - PLASTIC HANDLE

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	10-16-97	46-843-TAB

10002 MRPH

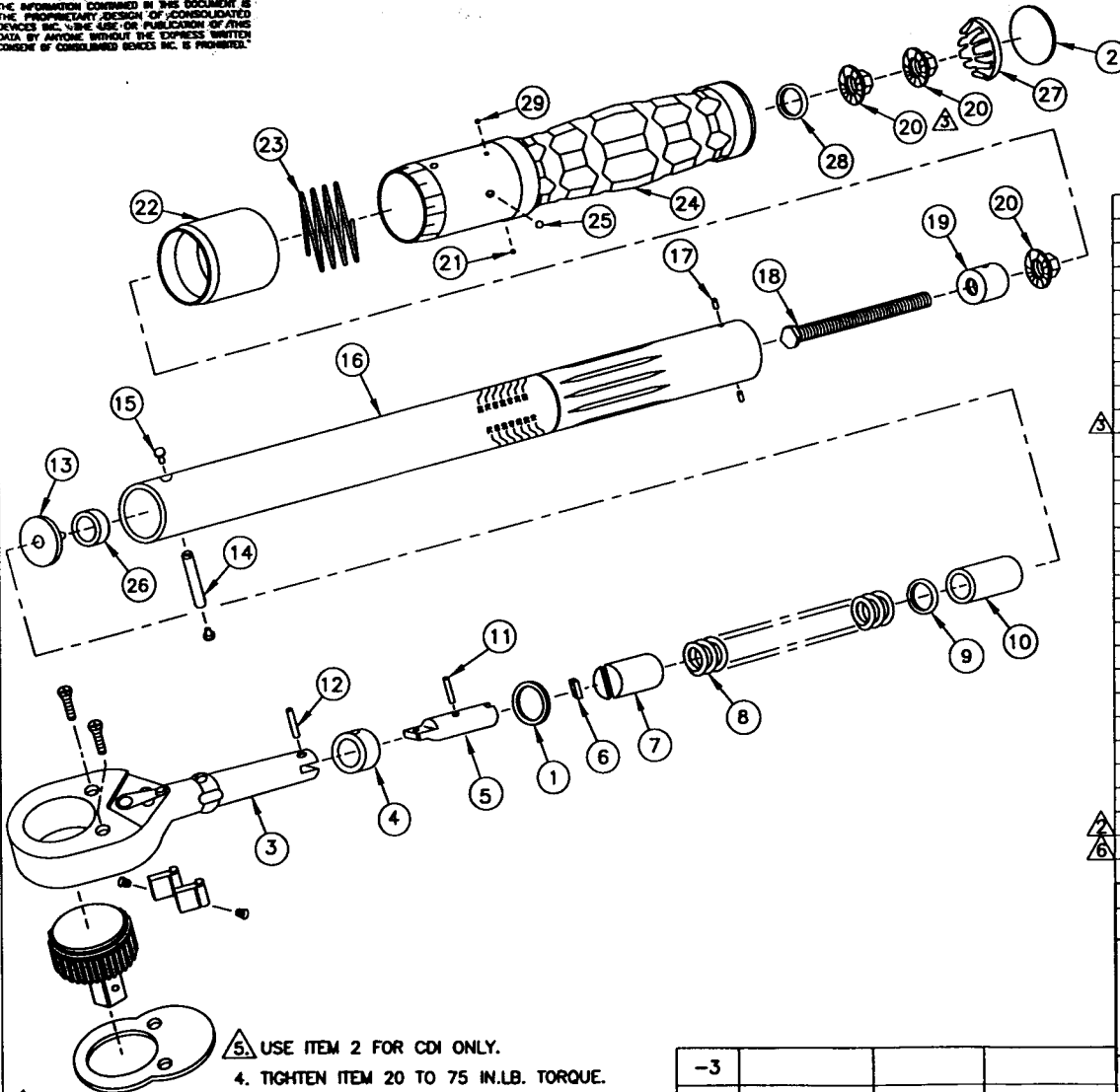
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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	ITEM 9 WAS REQ'D. 7, ITEM 10 WAS 95-28-2, ITEM 18 WAS 47-342-2	7-14-89	Jay

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JUL 28 2000

ISSUED BY



5. USE ITEM 2 FOR CDI ONLY.

4. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.

3. ITEM 20 ASSEMBLY AS SHOWN.

2. PURCHASED AS ASSEMBLY 96-500-8.

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

29	10-106-2	BALL (.1094 DIA.)	1
28	10-304	WASHER	1
27	10-103-3	BUTTON PLUG	1
26	95-28-4	SPACER (.35 LONG)	1
25	10-106-5	BALL (5/32)	1
24	47-344-3	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	3
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	96-204-2	TUBE (ROLL STAMP)	1
15	45-92	RMET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-1	SPACER (1.38 LONG)	1
9	10-104-1	WASHER, FLAT	1
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	96-500-8	RATCHET BODY ASSEMBLY	1
2	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
1	10-241-1	O-RING	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGELS
±1/32 .001 ±.01 ±1/2°
±.0005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1/2 DR. RATCHET
200 FT.LB. - PLASTIC HANDLE

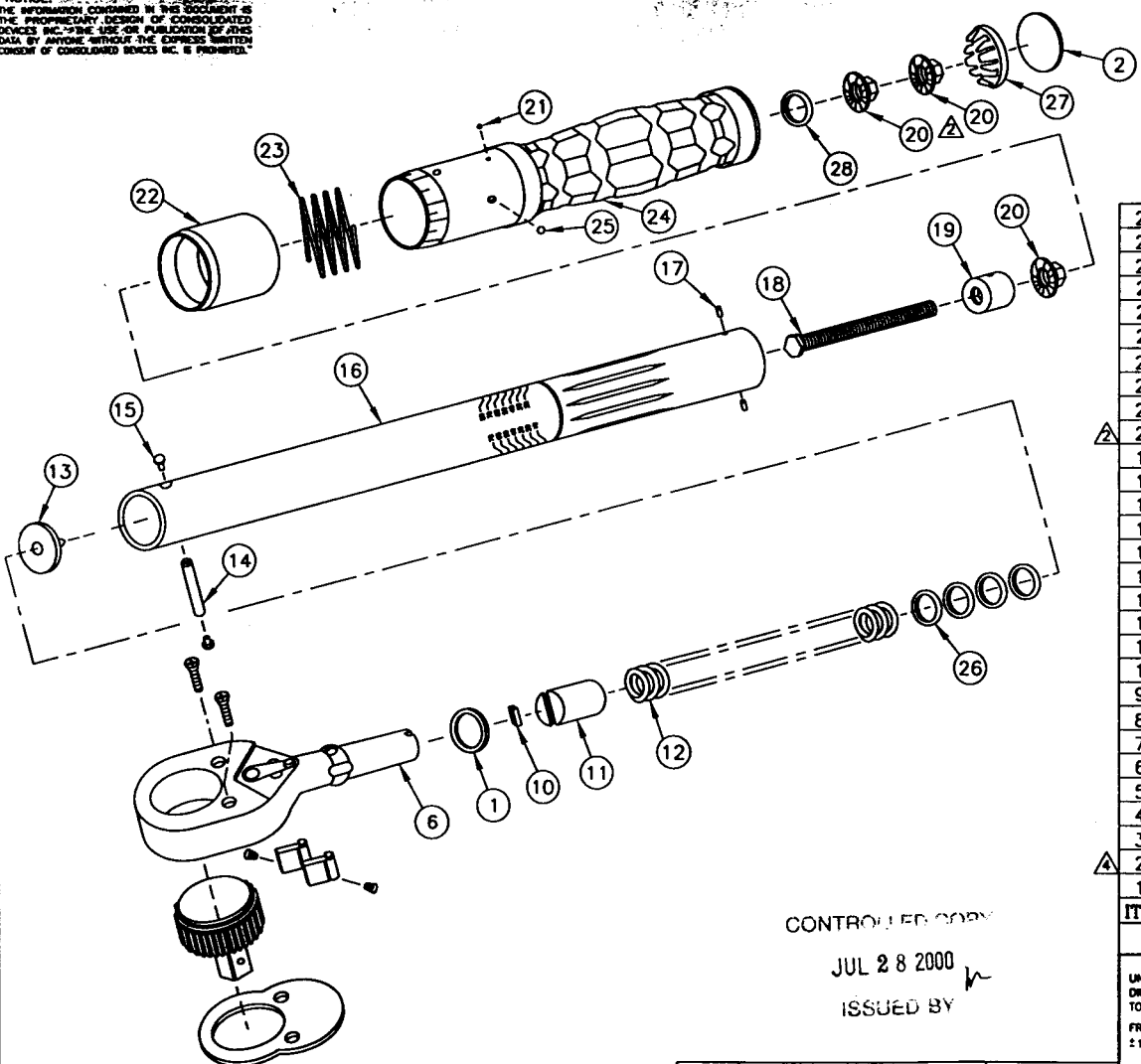
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	02-24-97	96-833-TAB

-3			
-2	47-375-16	GRAY TOOL	MFR 200
-1	47-346-16	CDI	2003MFRPH
TAB NO.	▲	CUSTOMER	MODEL NO.
	ITEM NO. 22		

2003MFRPH

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	C	ITEM 20 WAS REQ'D. 2, ADD ITEMS 1, 2, NOTES 2 THRU 4	8-14-88	Jay



29			
28	10-305	WASHER	1
27	10-103-1	BUTTON PLUG	1
26	10-104-2	WASHER, FLAT	4
25	10-106-1	BALL (3/32)	1
24	61-344-2	HANDLE ASSEMBLY (ROLL STAMP)	1
23	61-349	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-2	HEX FLANGE NUT	3
19	61-241	INSERT, TUBE	1
18	61-142-1	ADJUSTING SCREW (2.00 LONG)	1
17	10-106-5	BALL (5/32)	2
16	61-250-2	TUBE (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-265	SPRING, TORQUE	1
11	50-16	CAM	1
10	50-18	PAWL	1
9			
8			
7			
6	61-100-8	RATCHET BODY	1
5			
4			
3			
2	10-203-1	CDI END PLUG (SMALL) ONLY FOR CDI	1
1	10-241-2	O-RING	1
ITEM	PART NO.	DESCRIPTION	REQ'D

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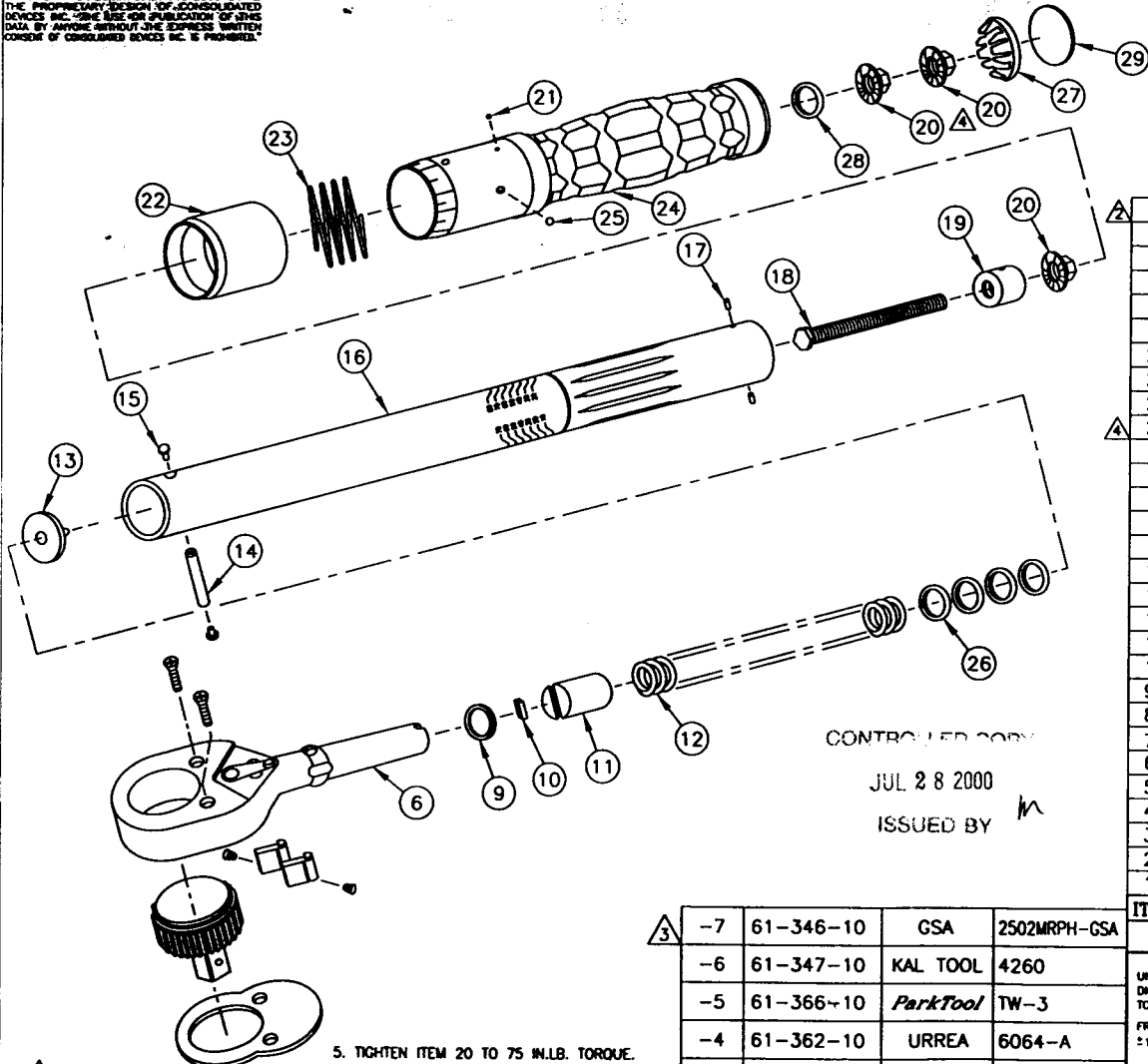
- △ USE ITEM 2 FOR CDI ONLY.
 - 3. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.
 - △ ITEM 20 ASSEMBLY AS SHOWN.
 - △ ETCH NSN 5120-01-439-4395 ON ITEM 16 ONLY FOR GSA.
- NOTES:

△ -3	61-346-4	GSA	1501MRPH-GSA
-2	61-362-4	URREA	6062-A
△ -1	61-346-4	CDI	1501MRPH
TAB NO.	ITEM NO.	CUSTOMER	MODEL NO.
	△ 22		

PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONSOLIDATED DEVICES, INC. City of Industry, California	
FRACTIONS	DECIMALS		
±1/32	.001	±1/2°	
	.0005		
MATERIAL		EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 1/4 DR. RATCHET 150 IN.LB. - PLASTIC HANDLE	
FINISH			
DRAWN	A.M.V.	SCALE	NONE
APPROVED	Jay	DATE	10-28-96
DRAWING NO.			61-833-TAB

1501MRPH, G6A

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JUL 28 2000
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- ▲ ITEM 20 ASSEMBLY AS SHOWN.
- ▲ ETCH NSN 5120-01-439-4393 ON ITEM 16 ONLY FOR GSA.
- ▲ USE ITEM 29 FOR CDI ONLY.
- ▲ FOR OEM NO LABEL ON THE PLASTIC BOX.

NOTES:

3	-7	61-346-10	GSA	2502MRPH-GSA
	-6	61-347-10	KAL TOOL	4260
	-5	61-366-10	ParkTool	TW-3
	-4	61-362-10	URREA	6064-A
1	-3	61-356-12	OEM	27081
1	-2	61-356-10	OEM	25679
2	-1	61-346-10	CDI	2502MRPH
TAB NO.		▲ ITEM NO. 22	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	H	DELETE NOTE 6	11-23-98	Jay

29	10-203-1	CDI END PLUG (SMALL) ONLY FOR CDI	1
28	10-305	WASHER	1
27	10-103-1	BUTTON PLUG	1
26	10-104-2	WASHER, FLAT	4
25	10-106-1	BALL (3/32)	1
24	61-344-2	HANDLE ASSEMBLY (ROLL STAMP)	1
23	61-349	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-2	HEX FLANGE NUT	3
19	61-241	INSERT, TUBE	1
18	61-142-4	ADJUSTING SCREW (2 3/16 LONG)	1
17	10-106-5	BALL (5/32)	2
16	61-250-4	TUBE (ROLL STAMP)	1
15	61-263	RIVET, PIVOT PIN	2
14	61-262	PIN, PIVOT	1
13	50-1	WASHER, THRUST	1
12	61-260	SPRING, TORQUE	1
11	50-16	CAM	1
10	61-18-0	PIVOT BLOCK	1
9	10-241-2	O-RING	1
8			
7			
6	61-100-10	RATCHET BODY	1
5			
4			
3			
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGELS ±1/32 .005 ±.01 ±1/2° .0005 .005			
MATERIAL			
FINISH			
DRAWN A.M.V.		SCALE NONE	DRAWING NO.
APPROVED Jay		DATE 02-20-97	61-836-TAB

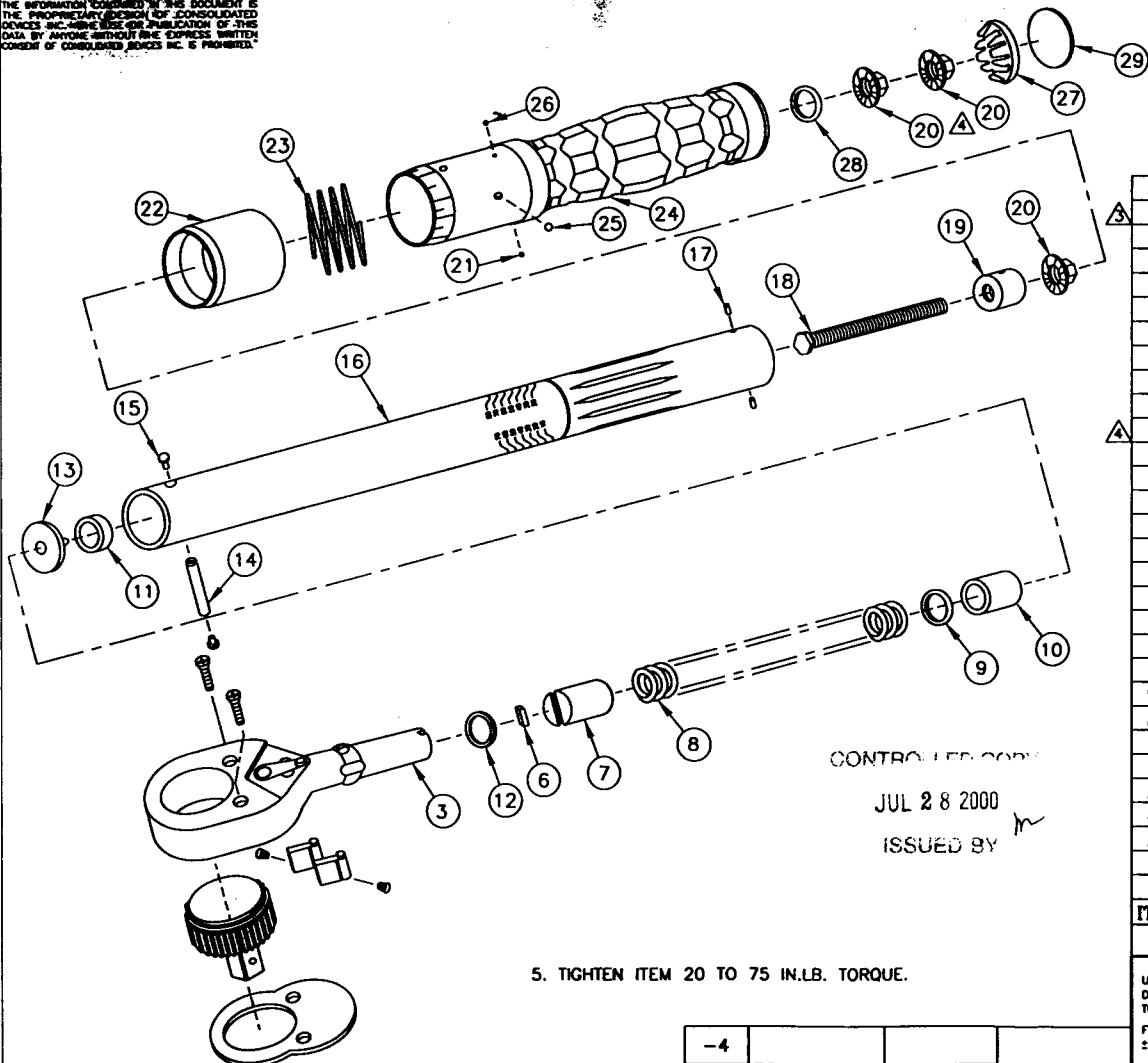
CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. RATCHET
250 IN.LB. - PLASTIC HANDLE

2502MRPH , GSA

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	F	DELETE NOTE 6	12-23-98	Jay



5. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.

4. ITEM 20 ASSEMBLY AS SHOWN.
 3. USE ITEM 29 FOR CDI ONLY.
 2. FOR OEM NO LABEL ON THE PLASTIC BOX.
 1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
- NOTES:

-4			
-3	47-362-12	URREA	6012-A
2	-2	47-356-12	OEM 25680
3	-1	47-346-12	CDI 1002MFRPH
TAB NO.	ITEM NO. 22	CUSTOMER	MODEL NO.

30			
29	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
28	10-304	WASHER	1
27	10-103-3	BUTTON PLUG	1
26	10-106-2	BALL (.1094 DIA.)	1
25	10-106-5	BALL (5/32)	1
24	47-344-5	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	3
19	47-241	INSERT, TUBE	1
18	47-342-2	ADJUSTING SCREW (2.75 LONG)	1
17	47-240	PIN	2
16	96-204-5	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-241-1	O-RING	1
11	95-28-3	SPACER (.60 LONG)	1
10	95-28-2	SPACER (1.00 LONG)	1
9	10-104-1	WASHER, FLAT	A/R
8	46-255-1	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5			
4			
3	46-500-12	RATCHET BODY	1
2			
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
±1/32	.XX ±.01	±1/2°
	.XXXX ±.005	

MATERIAL:

FINISH:

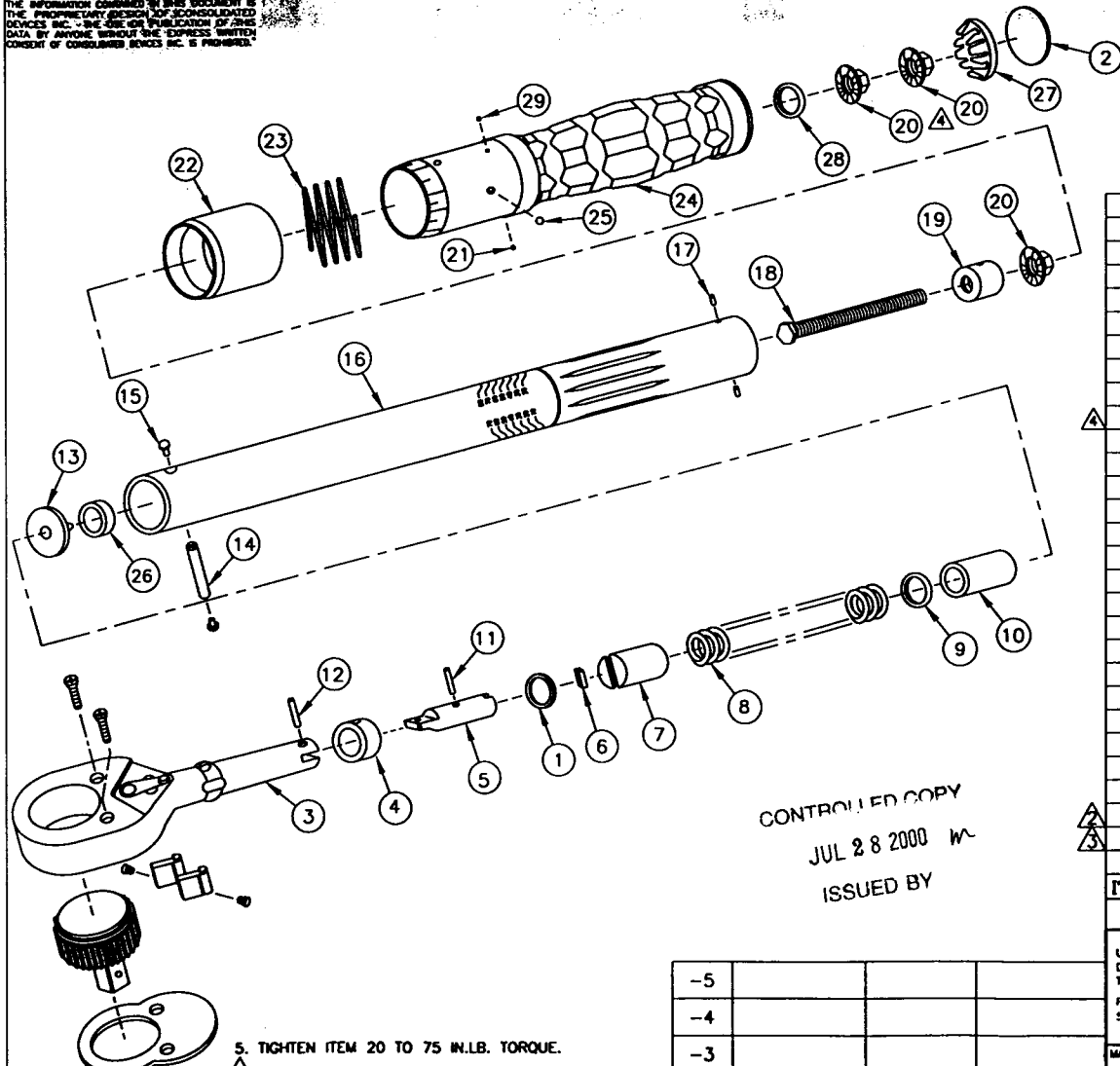
CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 3/8 DR. RATCHET
100 FT.LB. - PLASTIC HANDLE

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	10-28-96	46-844-TAB

1002 MFRPH

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5. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.
 △ ITEM 20 ASSEMBLY AS SHOWN.

△ USE ITEM 2 FOR CDI ONLY.
 △ PURCHASED AS ASSEMBLY 96-500-8.

1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

-5			
-4			
-3			
-2	47-347-14	KAL TOOL	4270
-1	47-346-14	CDI	1503MFRPH
TAB NO.	△ ITEM NO. 22	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	C	DELETE NOTE 6	12-23-98	Jay

29	10-106-2	BALL (.1094 DIA.)	1
28	10-304	WASHER	1
27	10-103-3	BUTTON PLUG	1
26	95-28-3	SPACER (.60 LONG)	1
25	10-106-5	BALL (5/32)	1
24	47-344-3	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22	△	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	3
19	47-241	INSERT, TUBE	1
18	47-342-3	ADJUSTING SCREW (2.50 LONG)	1
17	47-240	PIN	2
16	96-204-3	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-2	SPACER (1.00 LONG)	1
9	10-104-1	WASHER, FLAT	A/R
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	96-500-8	RATCHET BODY ASSEMBLY	1
2	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
1	10-241-1	O-RING	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGELS
 ±1/32 .001 ±1/2°

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

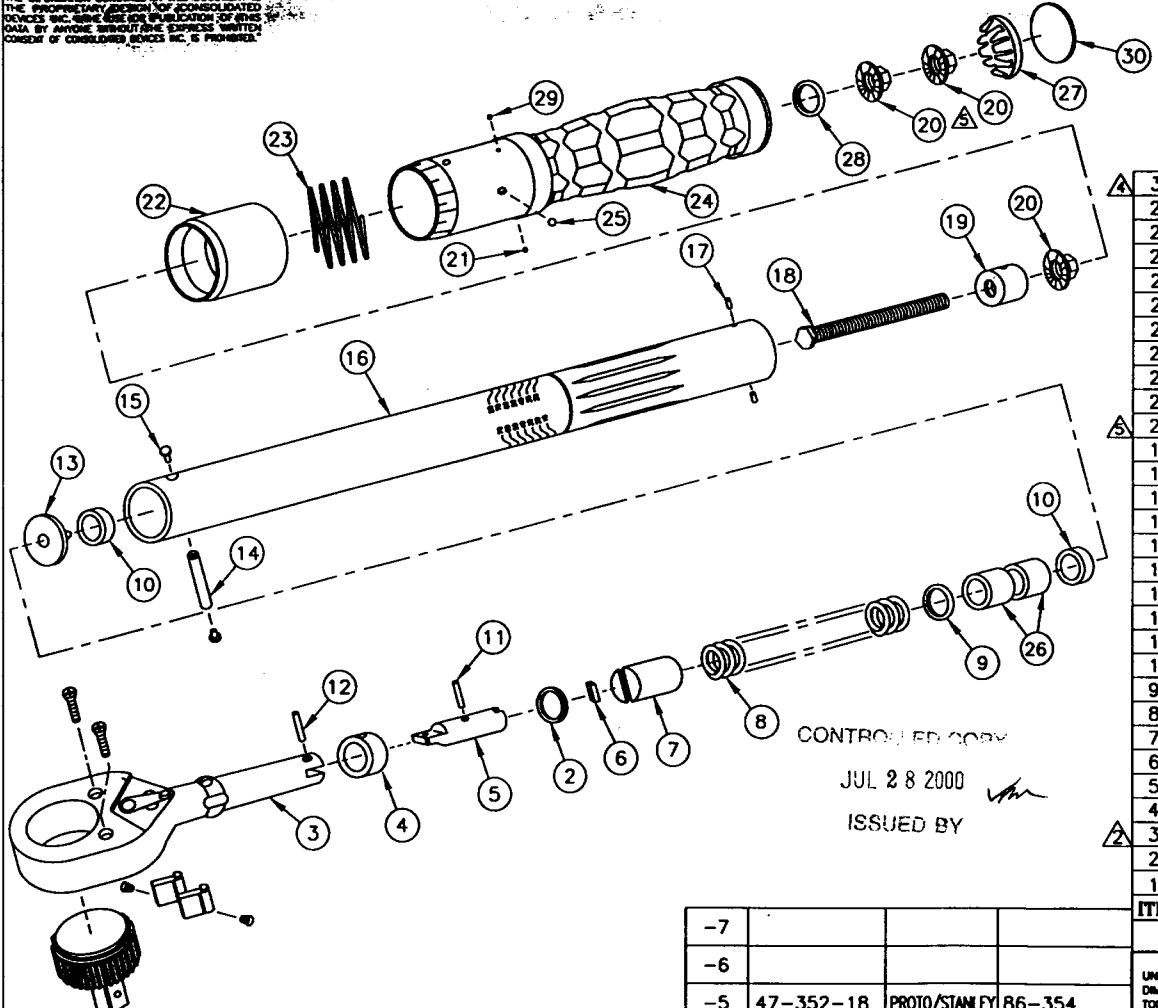
EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 1/2 DR. RATCHET
 150 FT.LB. - PLASTIC HANDLE

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	10-28-96	96-835-TAB

1503MFRPH

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	H	DELETE NOTE 7	10-23-90	Jay



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ISSUED BY *[Signature]*

6. TIGHTEN ITEM 20 TO 75 IN.LB. TORQUE.
5. ITEM 20 ASSEMBLY AS SHOWN.
4. USE ITEM 30 FOR CDI ONLY.
3. FOR OEM NO LABEL ON THE PLASTIC BOX.
2. PURCHASED AS ASSEMBLY 96-500-8.
1. FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
- NOTES:

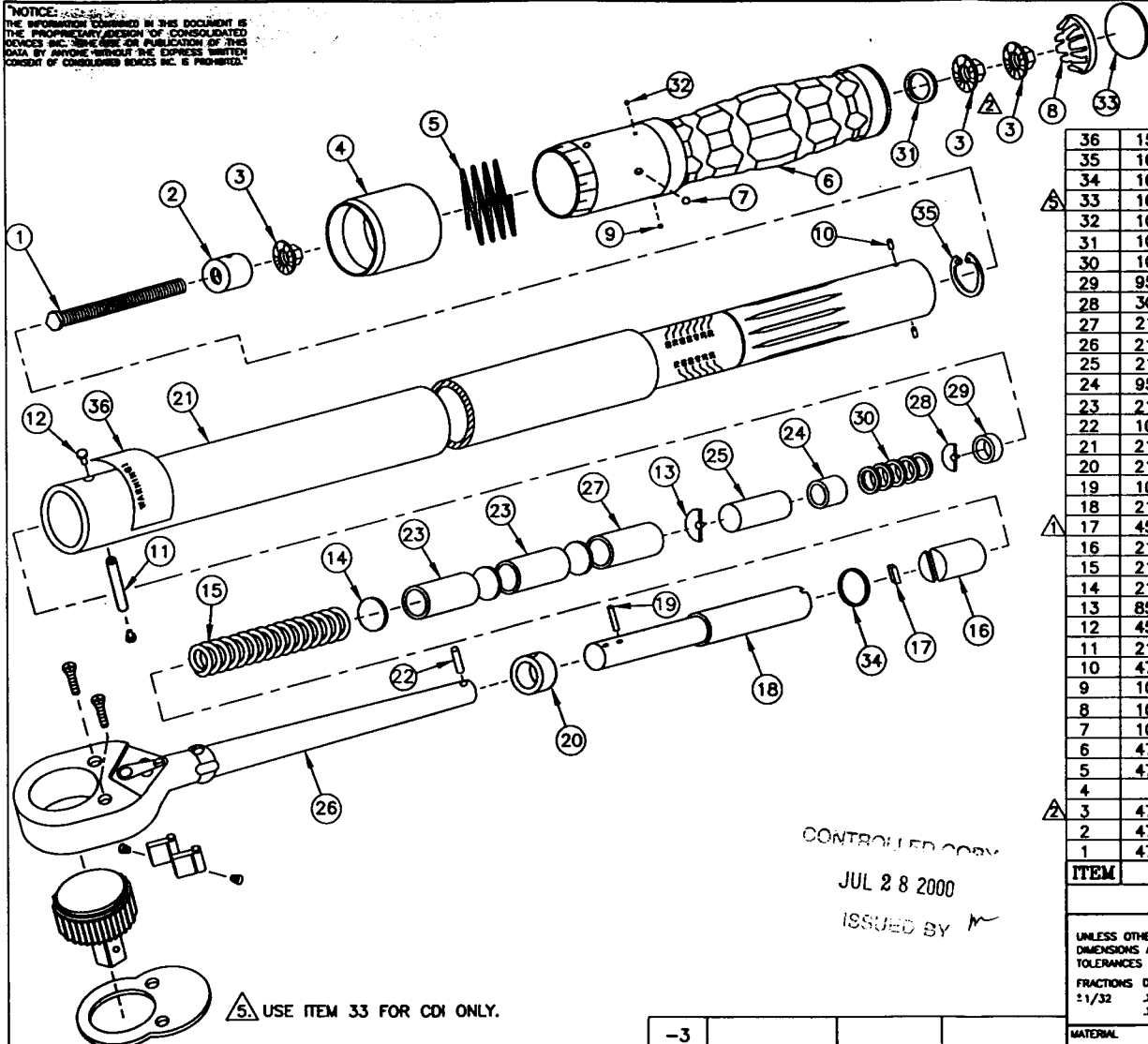
-7			
-6			
-5	47-352-18	PROTO/STANLEY	86-354
-4	47-347-18	KAL TOOL	4274
3	-3	47-356-28	OEM 27083
3	-2	47-356-18	OEM 25681
4	-1	47-346-18	CDI 2503MFRPH
TAB NO.	ITEM NO. 22	CUSTOMER	MODEL NO.

30	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
29	10-106-2	BALL (.1094 DIA.)	1
28	10-304	WASHER	1
27	10-103-3	BUTTON PLUG	1
26	95-28-1	SPACER (1.38 LONG)	2
25	10-106-5	BALL (5/32)	1
24	47-344-3	HANDLE ASSEMBLY (ROLL STAMP)	1
23	47-349	SPRING, LOCK RING	1
22	▲	LOCK RING	1
21	10-106-8	BALL (1/8)	1
20	47-245-1	HEX FLANGE NUT	3
19	47-241	INSERT, TUBE	1
18	47-342-1	ADJUSTING SCREW (3.00 LONG)	1
17	47-240	PIN	2
16	96-204-11	TUBE (ROLL STAMP)	1
15	45-92	RIVET, PIVOT PIN	2
14	45-91	PIN, PIVOT	1
13	30-8	WASHER, THRUST	1
12	10-102-18	PIN, ROLLER	1
11	10-102-24	PIN, FULCRUM	1
10	95-28-3	SPACER (.60 LONG)	2
9	10-104-1	WASHER, FLAT	A/R
8	95-246	SPRING, TORQUE	1
7	45-251	CAM	1
6	45-253-1	PAWL	1
5	61-61	SECONDARY ARM	1
4	61-60	FULCRUM	1
3	96-500-8	RATCHET BODY ASSEMBLY	1
2	10-241-1	O-RING	1
1			

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGELS ±1/32 .001 ±.01 ±1/2° .0001 .005			
MATERIAL			
FINISH			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION MICRO. ADJ. WRENCH 1/2 DR. RATCHET 250 FT.LB. - PLASTIC HANDLE			
DRAWN	A.M.V.	SCALE NONE	DRAWING NO.
APPROVED	Jay	DATE 10-28-96	96-832-TAB

2503MFRPH

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3. TIGHTEN ITEM 3 TO 75 IN.LB. TORQUE.

⚠ ITEM 3 ASSEMBLY AS SHOWN.

⚠ FOR WRENCHES TO BE RECALIBRATED SEE 46-353-TAB.

NOTES:

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 JUL 28 2000
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-3			
-2	47-351-20	HASTINGS	1226
-1	47-346-20	CDI	6004MFRPH
TAB NO.	⚠ ITEM NO. 4	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	E	ADD ITEMS 35 & 36	5-14-99	<i>Jay</i>

36	15-65	LABEL, WARNING	1
35	10-238-2	RETAINING RING	1
34	10-241-4	O-RING	1
33	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
32	10-106-2	BALL (.1094 DIA.)	1
31	10-304	WASHER, FLAT	1
30	10-104-1	WASHER	5
29	95-28-3	SPACER	1
28	30-8	WASHER, THRUST	1
27	216-24	SPACER	1
26	216-500-1	RATCHET BODY ASSEMBLY	1
25	216-41	SPACER	1
24	95-28-1	SPACER	1
23	215-20	SPACER	2
22	10-102-4	PIN, ROLLER	1
21	216-13-1	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-1	SECONDARY ARM	1
17	45-253-3	PAWL	1
16	215-32-1	CAM	1
15	215-86	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	3
13	85-10-2	WASHER, THRUST	1
12	45-92	RVET, PIVOT PIN	2
11	215-47-1	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	10-103-3	BUTTON PLUG	1
7	10-106-5	BALL (5/32)	1
6	47-344-10	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-349	SPRING, LOCK RING	1
4	⚠	LOCK RING	1
3	47-245-1	HEX, FLANGE NUT	3
2	47-241	INSERT TUBE	1
1	47-342-3	ADJUSTING SCREW (2.50 LONG)	1

ITEM	PART NO.	DESCRIPTION	REQ'D
------	----------	-------------	-------

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .005 ±.01 ±1/2°
 .0005 .005

MATERIAL

FINISH

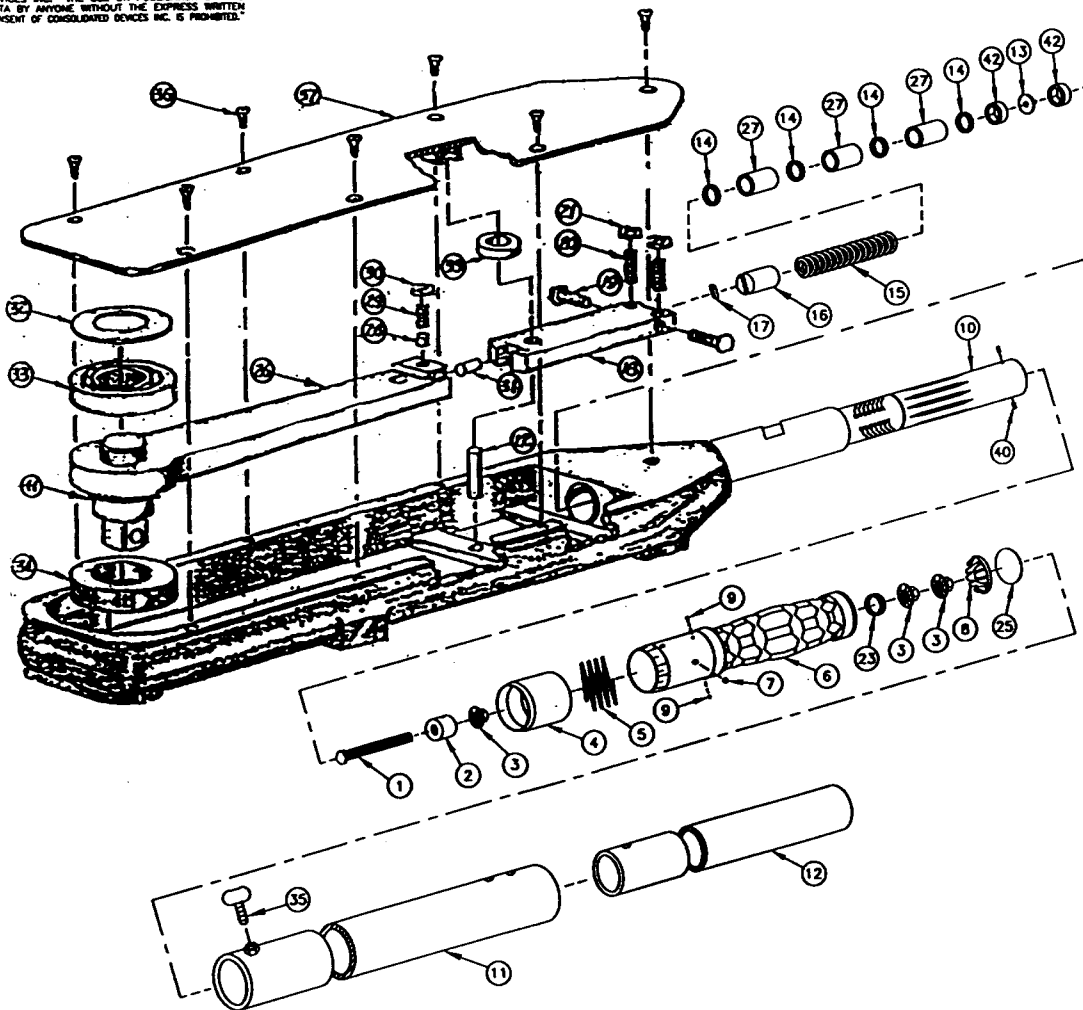
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 MICRO. ADJ. WRENCH 3/4 DR. RATCHET
 600 FT.LB. - PLASTIC HANDLE

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>Jay</i>	DATE	10-28-96	216-832-TAB

6004MFRPH

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2 ITEMS 18 THRU 21 MAY BE FURNISHED AS ASS'Y. (PART NO. 135-64).

1 ITEMS 26, 28, 29, 30 & 31 MAY BE FURNISHED AS ASS'Y. (PART NO. 135-60).

NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	ITEM 5 WAS 47-249	9-29-99	Jay

43				
42	95-28-4	SPACER (.35 LONG)		2
41	10-146-7	SHIMS		1
40	47-240	PIN		2
39	135-16	SPACER, SECONDARY ARM		1
38				
37	135-58	TOP PLATE & BLOCK ASS'Y.		1
36	10-111-2	SCREW, SELF TAPPING		7
35	10-155	WING BOLT		1
34	10-133-9	BEARING, SHAFT, DRIVE		1
33	10-133-7	BEARING, PRIMARY ARM		1
32	135-15	SPACER, PRIMARY ARM		1
31	10-102-3	PIN ROLLER, PRIMARY ARM		1
30	10-138-3	HEX NUT, PRIMARY ARM		1
29	10-101-23	SOCKET SETSCREW, PRIMARY ARM		1
28	135-38	PIN, LOCK, PRIMARY ARM		1
27	95-28-1	SPACER (1.38 LONG)		3
26	135-66	PRIMARY ARM, BLOCK & DRIVE ASS'Y.		1
25	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI		1
24	10-106-2	BALL (.1094 DIA.)		1
23	10-304	WASHER		1
22	10-102-2	PIN, ROLLER, SECONDARY ARM		1
21	10-138-5	HEX NUT, SECONDARY ARM		2
20	10-101-31	SOCKET SETSCREW, SECONDARY ARM		2
19	10-125-1	HEX HEAD MACHINE SCREW		2
18	135-3	SECONDARY ARM		1
17	135-19-2	PAWL		1
16	45-251	CAM		1
15	135-7	SPRING, TORQUE		1
14	10-104-1	WASHER, FLAT		4
13	30-8	WASHER, THRUST		1
12	135-13	EXTENSION, 2 ND HANDLE ASS'Y.		1
11	135-11-1	EXTENSION, HANDLE		1
10	136-165-3	HOUSING & TUBE ASS'Y. (ROLL STAMP)		1
9	10-106-8	BALL (1/8)		1
8	10-103-3	BUTTON PLUG		1
7	10-106-5	BALL (5/32)		1
6	47-344-13	HANDLE ASSEMBLY (ROLL STAMP)		1
5	47-349	SPRING, LOCK RING		1
4	47-346-74	LOCK RING		1
3	47-245-1	HEX FLANGE NUT		3
2	47-241	INSERT TUBE		1
1	47-342-2	ADJUSTING SCREW (2.75 LONG)		1
ITEM	PART NO.	DESCRIPTION	REQ'D	

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

FRACTIONS DECIMALS ANGLES
±1/32 .XX ±.01 ±1/2°
.XXX ±.005

MATERIAL

FINISH

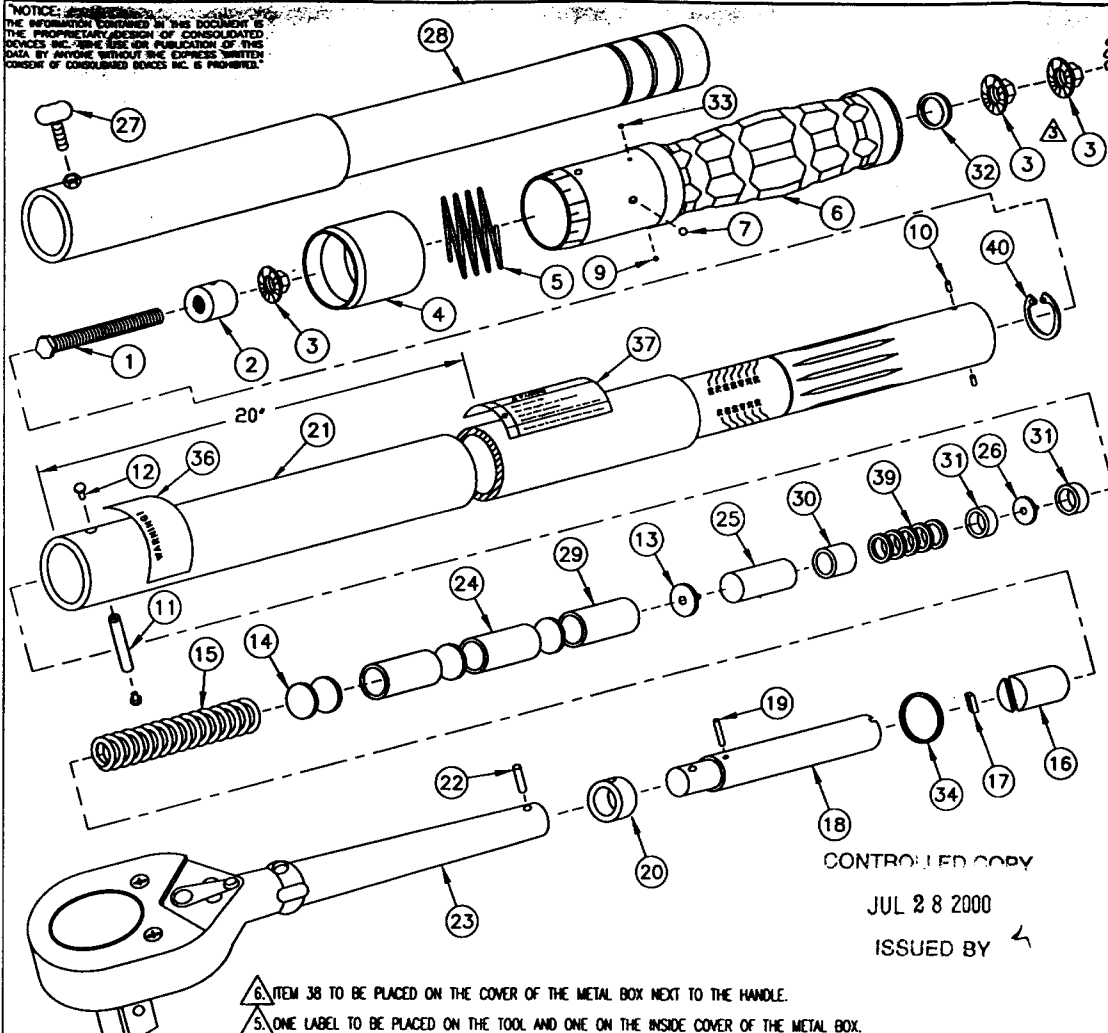
CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1" DR. (PLAIN)
2000 FT.LB. - PLASTIC HANDLE
CDI

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	Jay	DATE	12-14-98	136-231-2

20005 MFPH CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ITEM 28 WAS 216-186-0	1-21-00	<i>Jay</i>

41	10-203-10	END PLUG (LARGE)	1
40	10-238-2	RETAINING RING	1
39	10-104-1	WASHER, FLAT	5
38	15-67	LABEL, WARNING - BOX (NOT SHOWN)	1
37	15-66	LABEL, WARNING - EXTENSION	2
36	15-65	LABEL, WARNING	1
35	10-117-8	METAL BOX ASSEMBLY (NOT SHOWN)	1
34	10-241-3	O-RING	1
33	10-106-2	BALL (.1094 DIA.)	1
32	10-304	WASHER	1
31	95-28-4	SPACER (.35 LONG)	2
30	95-28-1	SPACER (1.38 LONG)	1
29	216-24	SPACER (1.60 LONG)	1
28	216-186-01	HANDLE EXTENSION ASSEMBLY	1
27	10-155	WING BOLT	1
26	30-8	WASHER, THRUST	1
25	216-41	SPACER (3.60 LONG)	1
24	215-20	SPACER (3.09 LONG)	2
23	216-500-2	RATCHET BODY ASSEMBLY	1
22	215-104	PIN, ROLLER	1
21	▲	TUBE (LASER MARK)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-2	SECONDARY ARM	1
17	45-253-3	PAWL	1
16	215-32-1	CAM	1
15	215-86	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	4
13	85-10-2	WASHER, THRUST	1
12	85-38	RIVET, PIVOT PIN	2
11	85-37	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	10-103-3	BUTTON PLUG	1
7	10-106-5	BALL (5/32)	1
6	47-444-10	HANDLE LASER MARK	1
5	47-249	SPRING, LOCK RING	1
4	47-346B-0	LOCK RING	1
3	47-245-1	HEX, FLANGE NUT	3
2	47-241	INSERT TUBE	1
1	47-342-2	ADJUSTING SCREW (2.75 LONG)	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
± 1/32	XX ± .01	± 1/2°
	XXX ± .005	

MATERIAL:

FINISH:

CONSOLIDATED DEVICES, INC.
City of Industry, California

EXPLODED ILLUSTRATION
MICRO. ADJ. WRENCH 1" DR. RATCHET
LASER MARK 1000 FT.LB. - PLASTIC HANDLE

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.	216-1833-TAB
APPROVED	<i>Jay</i>	DATE	08-19-99		

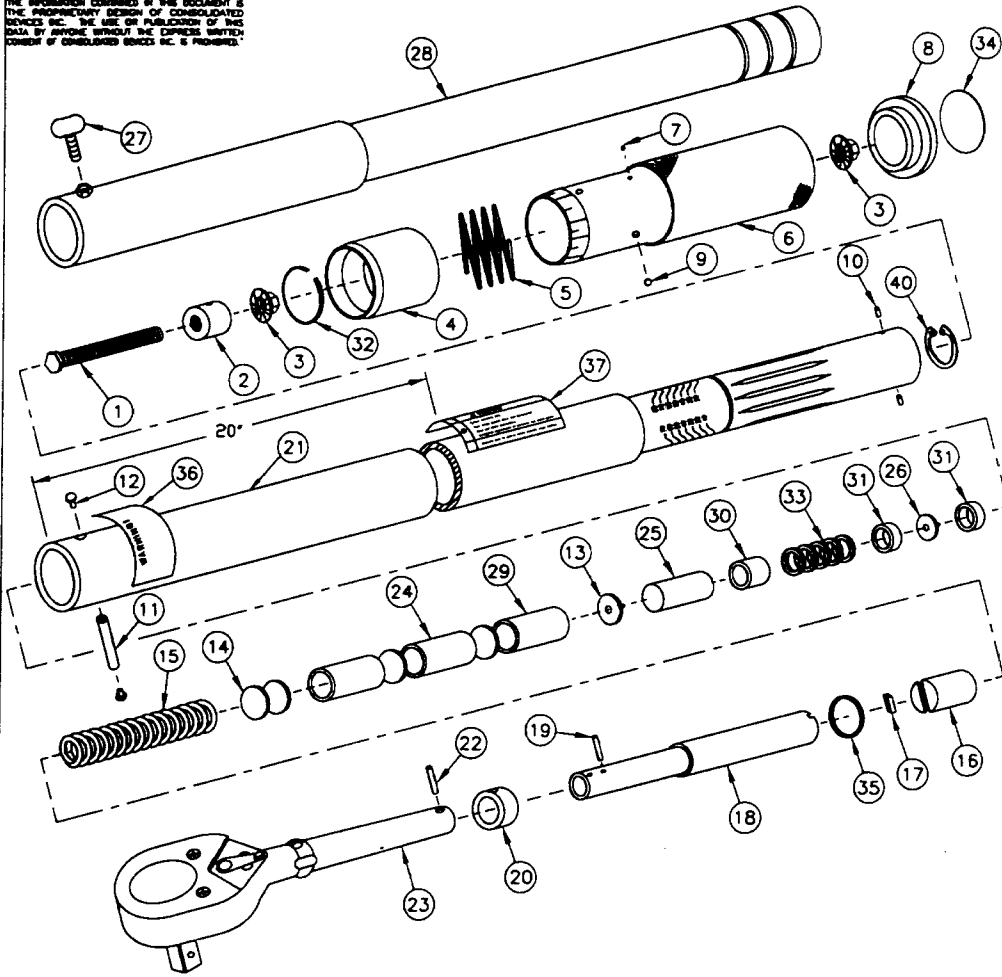
4. TIGHTEN ITEM 3 TO 75 IN.LB. TORQUE.
- ▲ ITEM 3 ASSEMBLY AS SHOWN.
- ▲ IF ITEM 15 IS MADE IN CDN BY CUTTING SPRING 215-86 FOR ITEM 18 USE P/N 216-61-3.
- ▲ FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.
- NOTES:

-4			
-3			
-2			
-1	216-222-2	HI-FORCE	HTW1500NT
TAB NO.	▲ ITEM NO. 21	CUSTOMER	MODEL NO.

CONTROLLED COPY
JUL 28 2000
ISSUED BY *L*

10005MFRPH

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- ▲ ITEM 38 TO BE PLACED ON THE COVER OF THE METAL BOX NEXT TO THE HANDLE.
- ▲ ONE LABEL TO BE PLACED ON THE TOOL AND ONE ON THE INSIDE COVER OF THE METAL BOX.
- ▲ USE ITEM 34 FOR CDI ONLY.
- ▲ FOR WRENCHES TO BE RECALIBRATED SEE 46-253-TAB.

NOTES:

5			
4			
3			
2			
1	47-646-21	CDI	15005NMRMH
TAB NO.	PART NO.	CUSTOMER	MODEL NO.

BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	D	REVISIONS: 1. 10-11-77 2. 10-11-77 3. 10-11-77 4. 10-11-77	2-18-97	Joy

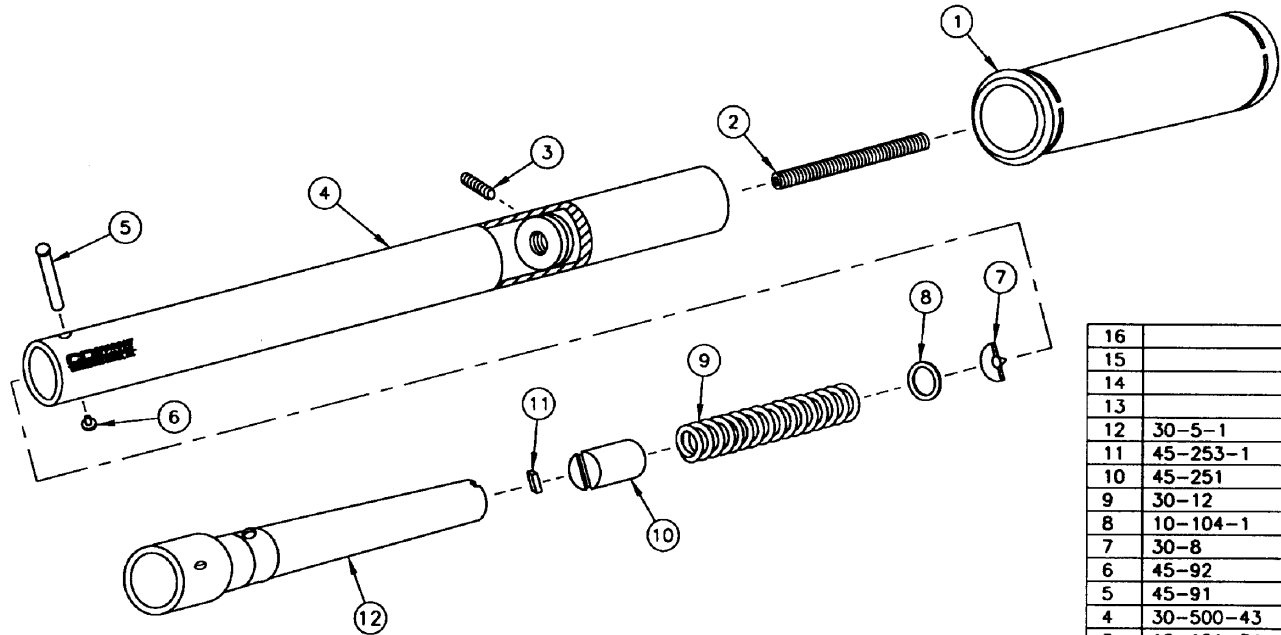
ITEM	PART NO.	DESCRIPTION	REQ'D
40	10-238-2	RETAINING RING	1
39	10-117-7	METAL BOX ASSEMBLY (NOT SHOWN)	1
▲ 38	15-67	LABEL WARNING - BOX (NOT SHOWN)	1
▲ 37	15-66	LABEL WARNING - EXTENSION	2
36	15-65	LABEL, WARNING	1
35	10-241-3	O-RING	1
▲ 34	10-203-2	CDI END PLUG (LARGE) ONLY FOR CDI	1
33	10-104-1	WASHER, FLAT	5
32	47-238-1	SPRING RING	1
31	95-28-4	SPACER (.35 LONG)	2
30	95-28-1	SPACER (1.38 LONG)	1
29	216-24	SPACER (1.60 LONG)	1
28	216-186-01	EXTENSION	1
27	10-155	WING BOLT	1
26	30-8	WASHER, THRUST	1
25	216-41	SPACER (3.60 LONG)	1
24	215-20	SPACER ((3.09 LONG)	2
23	216-500-2	RATCHET BODY	1
22	215-104	PIN, ROLLER	1
21	216-13-8	TUBE (ROLL STAMP)	1
20	216-60	FULCRUM	1
19	10-102-23	PIN, FULCRUM	1
18	216-61-4	SECONDARY ARM	1
17	45-253-3	PAWL	1
16	215-32-1	CAM	1
15	215-186	SPRING, TORQUE	1
14	215-82-1	WASHER, FLAT	4
13	85-10-2	WASHER, THRUST	1
12	85-38	RIVET, PIVOT PIN	2
11	85-37	PIN, PIVOT	1
10	47-240	PIN	2
9	10-106-8	BALL (1/8)	1
8	96-103-3	END PLUG SNAP-ON, CDI	1
7	10-106-1	BALL (5/32)	1
6	47-348-9	HANDLE ASSEMBLY (ROLL STAMP)	1
5	47-249	SPRING, LOCK RING	1
4	▲	LOCK RING	1
3	47-245-1	HEX. FLANGE NUT	2
2	47-241	INSERT TUBE	1
1	47-342-5	ADJUSTING SCREW (2.25 LONG)	1

PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/32 .001 ±.01 ±1/2° XXXX.005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION	
FINISH		MICRO. ADJ. WRENCH 1" DR. RATCHET 1500 Nm & 1069 FT.LB.	
DRAWN	A.M.V.	SCALE	NONE
APPROVED	Joy	DATE	01-12-96
		DRAWING NO. 216-633-TAB	

15005 NMRMH

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BY	LTR	DESCRIPTION	DATE	APPROVED
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16			
15			
14			
13			
12	30-5-1	ARM, CLICK	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	30-12	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-500-43	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-34	SOCKET SETSCREW, LOCKING	1
2	10-101-36	SOCKET SETSCREW, PLUG	1
1	30-277-3	HAND GRIP	1

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 For Reference Only
 DATE: AUG 17 2000
 Not valid after _____ Days

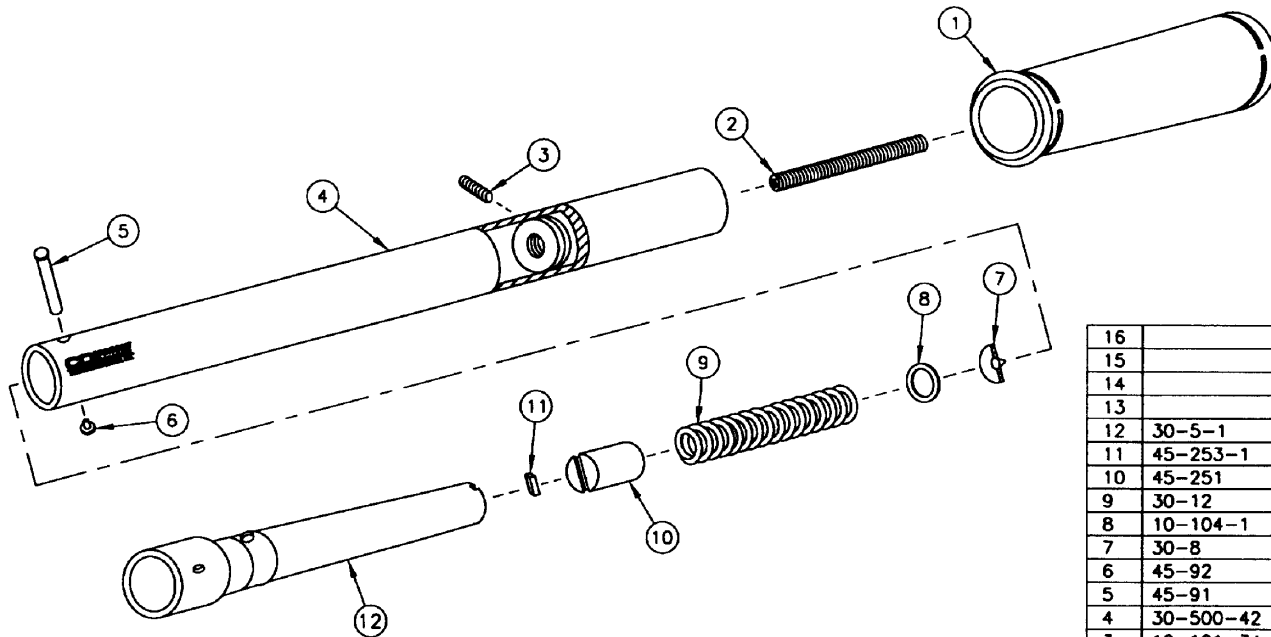
ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONSOLIDATED DEVICES INC City of Industry, California EXPLODED ILLUSTRATION 10AT-I 84-300 IN.LB. PRESET INTERCHANGEABLE HEAD CDI	
FRACTIONAL DECIMAL ANGLES ±1/32 .001 ±1/2° .0005 .005			
MATERIAL		DRAWN A.M.V. SCALE NONE DRAWING NO. APPROVED <i>[Signature]</i> DATE 2-19-99 30-1317-3	
FINISH			

NOTES:

10AT-I CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED



16			
15			
14			
13			
12	30-5-1	ARM, CLICK	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	30-12	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-500-42	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-34	SOCKET SETSCREW, LOCKING	1
2	10-101-36	SOCKET SETSCREW, PLUG	1
1	30-277-2	HAND GRIP	1
ITEM	PART NO.	DESCRIPTION	REQ'D

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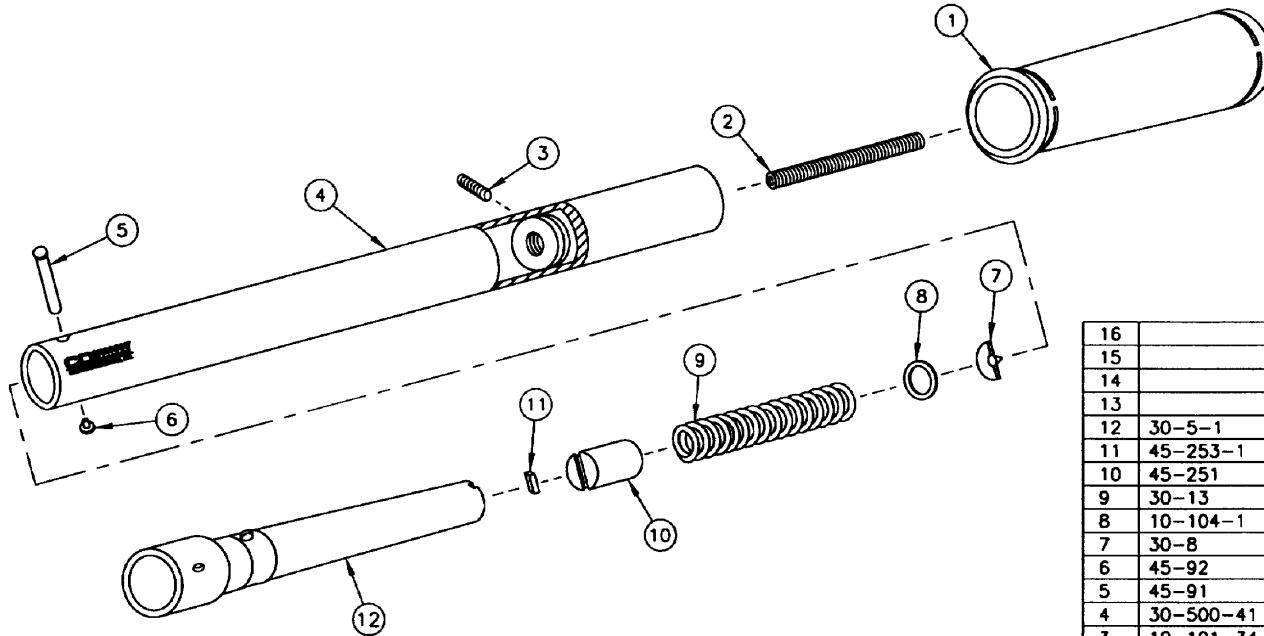
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES: 30°		CONSOLIDATED DEVICES INC City of Industry, California	
FRACTIONS 1/32	DECIMALS XX ±.01 XXX±.005	ANGLES 1/2°	EXPLODED ILLUSTRATION 10ST-I 84-300 IN.LB. PRESET INTERCHANGEABLE HEAD CDI
MATERIAL	FINISH	DRAWN: A.M.V. SCALE: NONE DATE: 2-18-99 DRAWING NO.: 30-1317-2	
APPROVED: [Signature]			

NOTES:

10ST-I CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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16			
15			
14			
13			
12	30-5-1	ARM, CLICK	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	30-13	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-500-41	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-34	SOCKET SETSCREW, LOCKING	1
2	10-101-36	SOCKET SETSCREW, PLUG	1
1	30-277-1	HAND GRIP	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

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 For Reference Only
 DATE: AUG 17 2000
 Not valid after _____ Days

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 ±.01 ±1/2°
 .XXX ±.005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 10T-I 36-108 IN.LB. PRESET

INTERCHANGEABLE HEAD CDI

MATERIAL

FINISH

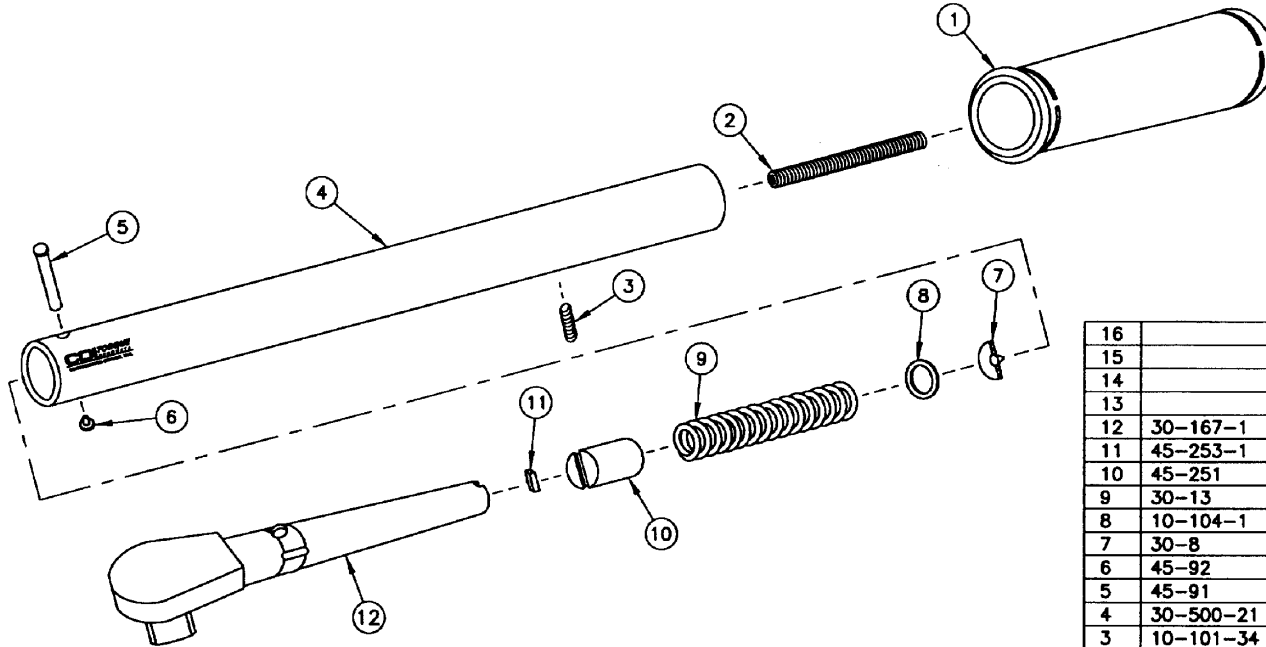
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>[Signature]</i>	DATE	2-18-99	30-1317-1

NOTES:

10T-I CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	A	ITEM 12 WAS 30-167-2, RELOCATE ITEM 3	5-4-99	Jay



16			
15			
14			
13			
12	30-167-1	ARM CLICK & PLAIN HEAD ASSEMBLY (3/8)	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	30-13	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-500-21	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-34	SOCKET SETSCREW, LOCKING	1
2	10-101-36	SOCKET SETSCREW, PLUG	1
1	30-277-1	HAND GRIP	1
ITEM	PART NO.	DESCRIPTION	REQ'D

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 DATE: **AUG 17 2000**
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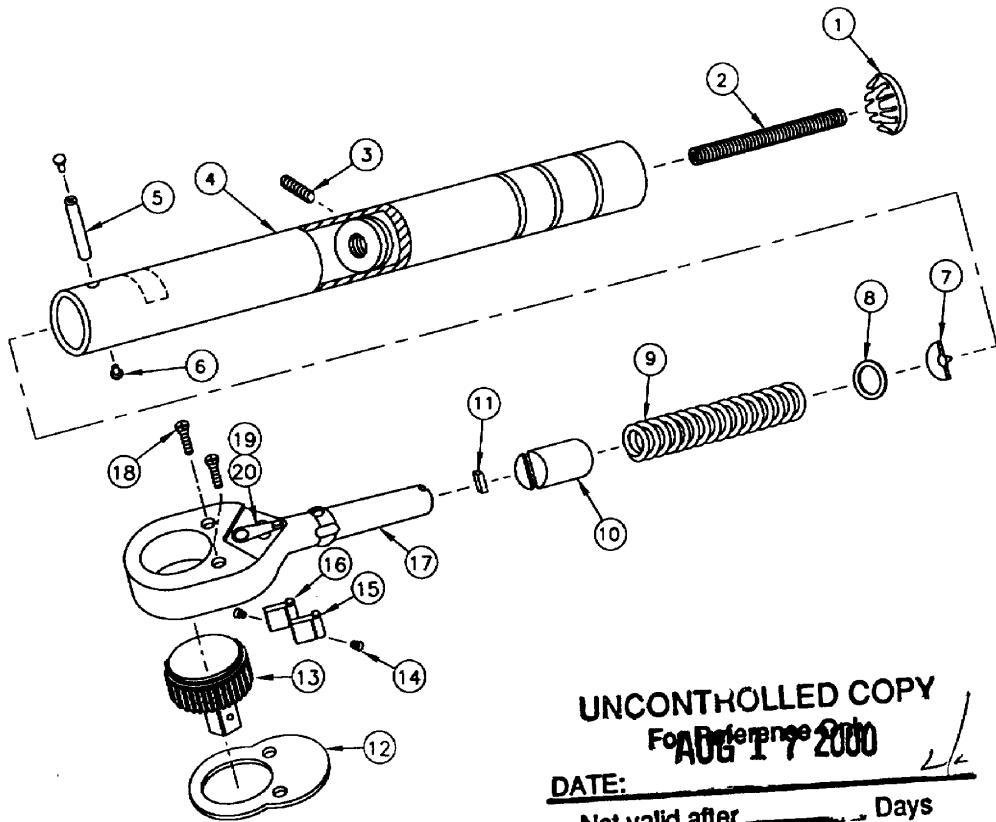
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONSOLIDATED DEVICES, INC. City of Industry, California	
FRACTIONS	DECIMALS	ANGLES	EXPLODED ILLUSTRATION 10T-2P PRESET 3-9 FT.LB. CDI
±1/32	.001	±1/2°	
MATERIAL		DRAWING NO. 30-1317-10	
FINISH		SCALE NONE	DATE 02-05-99
DRAWN A.M.V.		APPROVED Jay	

NOTES:

10T-2P CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
A.M.V.	B	ITEM 11 WAS 60-18-0	6-22-98	Jay



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For Reference Only
DATE: Aug 17 2000
Not valid after _____ Days

- NOTES:
- ▲ ITEMS 12 THRU 20 PURCHASED AS 61-100-10.
 - ▲ FOR ASSEMBLY OF ITEMS 17, 19 & 20 SEE 61-101.
 - ▲ FOR COMPLETE ASSEMBLY OF ITEMS 12 THRU 20 SEE 61-115-0.

20		REVERSING CAM	1
19		REVERSING LEVER	1
18		SCREW	1
17	61-100-10	RATCHET BODY	1
16		DOG-RIGHT	1
15		DOG-LEFT	1
14		SPRING	1
13		RATCHET WHEEL	1
12		PLATE	1
11	61-18-0	PIVOT BLOCK	1
10	50-16-1	CAM	1
9	25-36	SPRING, TORQUE	1
8	10-104-2	WASHER, FLAT	A/R
7	50-1	WASHER, THRUST	1
6	61-263	RMET, PIVOT PIN	2
5	61-262	PIVOT PIN	1
4	50-4-1	TUBE ASSEMBLY	1
3	10-101-2	SOCKET SETSCREW, LOCKING	1
2	10-101-10	SOCKET SETSCREW, PLUG	1
1	10-103-1	BUTTON PLUG	1
ITEM	PART NO.	DESCRIPTION	REQ'D

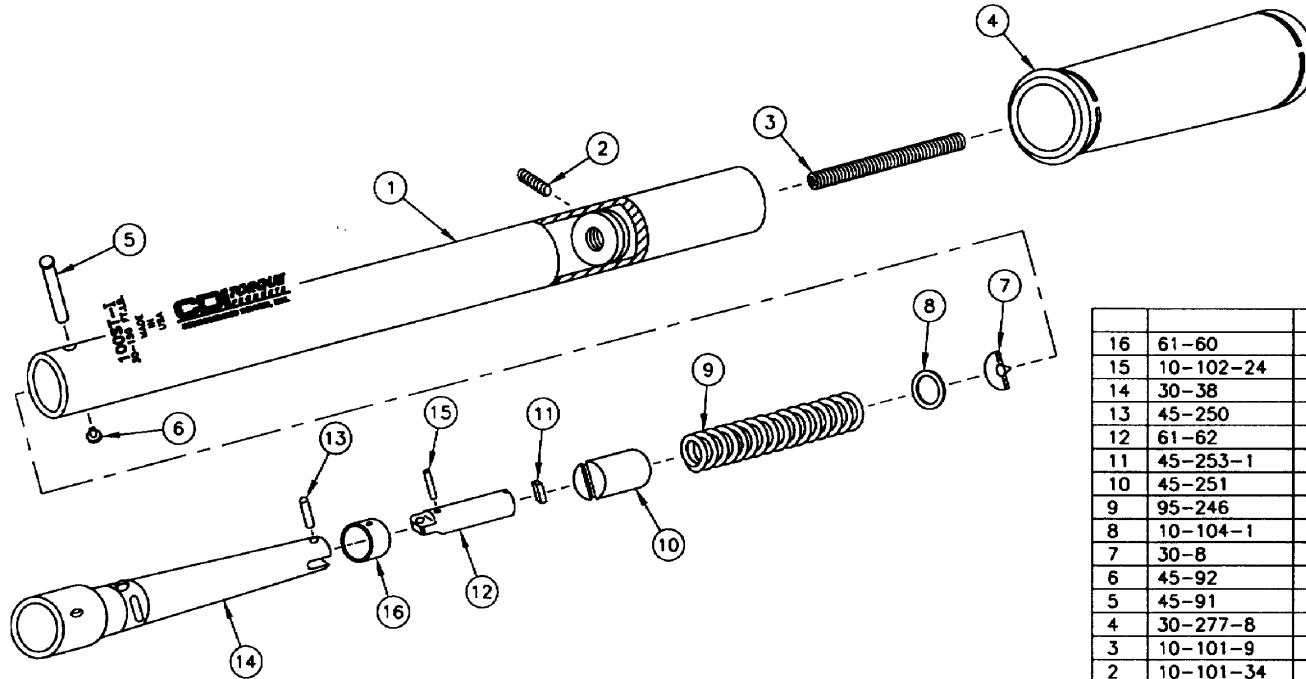
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/32 .XX ±.01 ±1/2° .XXX .005			
MATERIAL			
FINISH			
DRAWN <i>slj</i>		SCALE NONE	DRAWING NO.
APPROVED <i>Jay</i>		DATE 01-12-96	50-5-2

CONSOLIDATED DEVICES, INC.
City of Industry, California
EXPLODED ILLUSTRATION
10T-2R PRESET
100 IN.LB. 12 Nm

10T-2R

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BY	LTR	DESCRIPTION	DATE	APPROVED
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16	61-60	FULCRUM	1
15	10-102-24	PIN	1
14	30-38	INTERCHANGEABLE HEAD	1
13	45-250	PIN, ROLLER	1
12	61-62	SECONDARY ARM	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	95-246	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-277-8	HAND GRIP	1
3	10-101-9	SOCKET SETSCREW, PLUG	1
2	10-101-34	SOCKET SETSCREW, LOCKING	1
1	30-500-48	TUBE ASSEMBLY, PRESET LASER MARK	1
ITEM	PART NO.	DESCRIPTION	REQ'D

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 DATE: AUG 17 2000
 Not valid after _____ Days

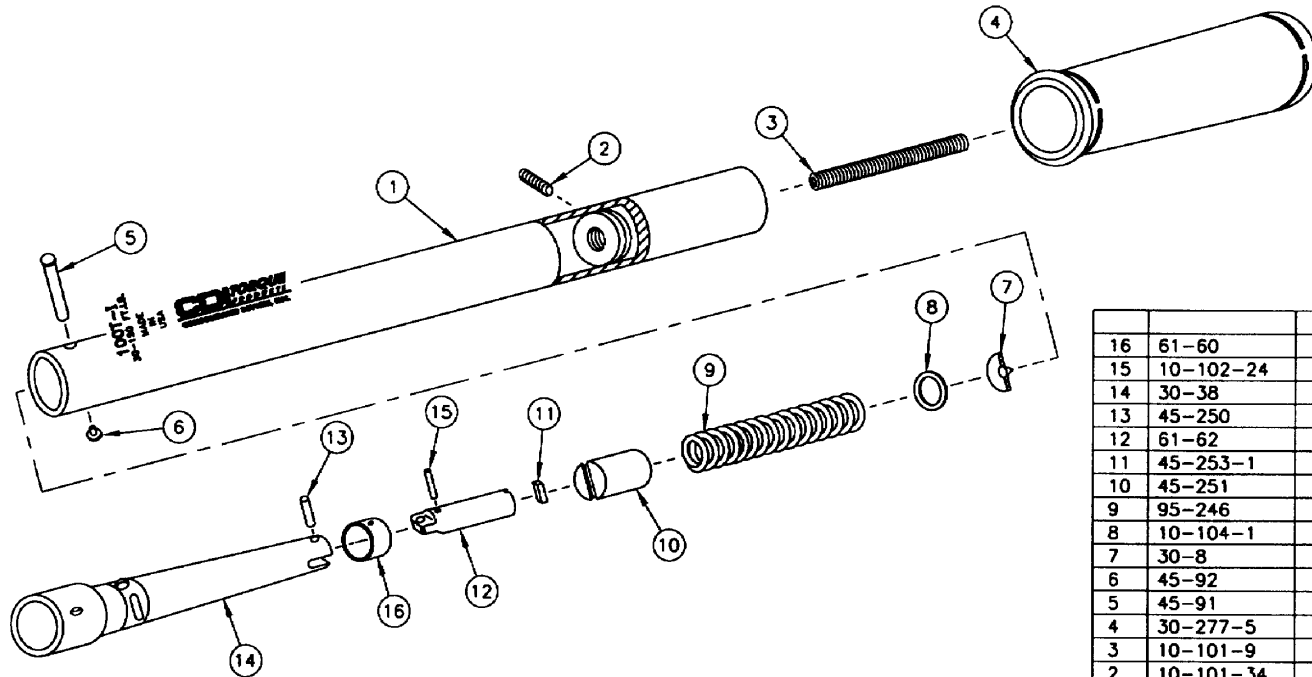
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		CONSOLIDATED DEVICES, INC City of Industry, California	
FRACTIONS DECIMALS ANGLES ±1/32 .001 ±.01 ±1/2° XXX±.005		EXPLODED ILLUSTRATION 100ST-I (30-150 FT.LB.) PRESET INTERCHANGEABLE HEAD CDI	
MATERIAL	FINISH	DRAWN A.M.V. SCALE NONE	DRAWING NO. 30-1350
		APPROVED <i>709</i> DATE 2-18-99	

NOTES:

100ST-I CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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16	61-60	FULCRUM	1
15	10-102-24	PIN	1
14	30-38	INTERCHANGEABLE HEAD	1
13	45-250	PIN, ROLLER	1
12	61-62	SECONDARY ARM	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	95-246	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-277-5	HAND GRIP	1
3	10-101-9	SOCKET SETSCREW, PLUG	1
2	10-101-34	SOCKET SETSCREW, LOCKING	1
1	30-500-47	TUBE ASSEMBLY, PRESET LASER MARK	1
ITEM	PART NO.	DESCRIPTION	REQ'D

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 For Reference Only
 DATE: **AUG 17 2000**
 Not valid after _____ Days

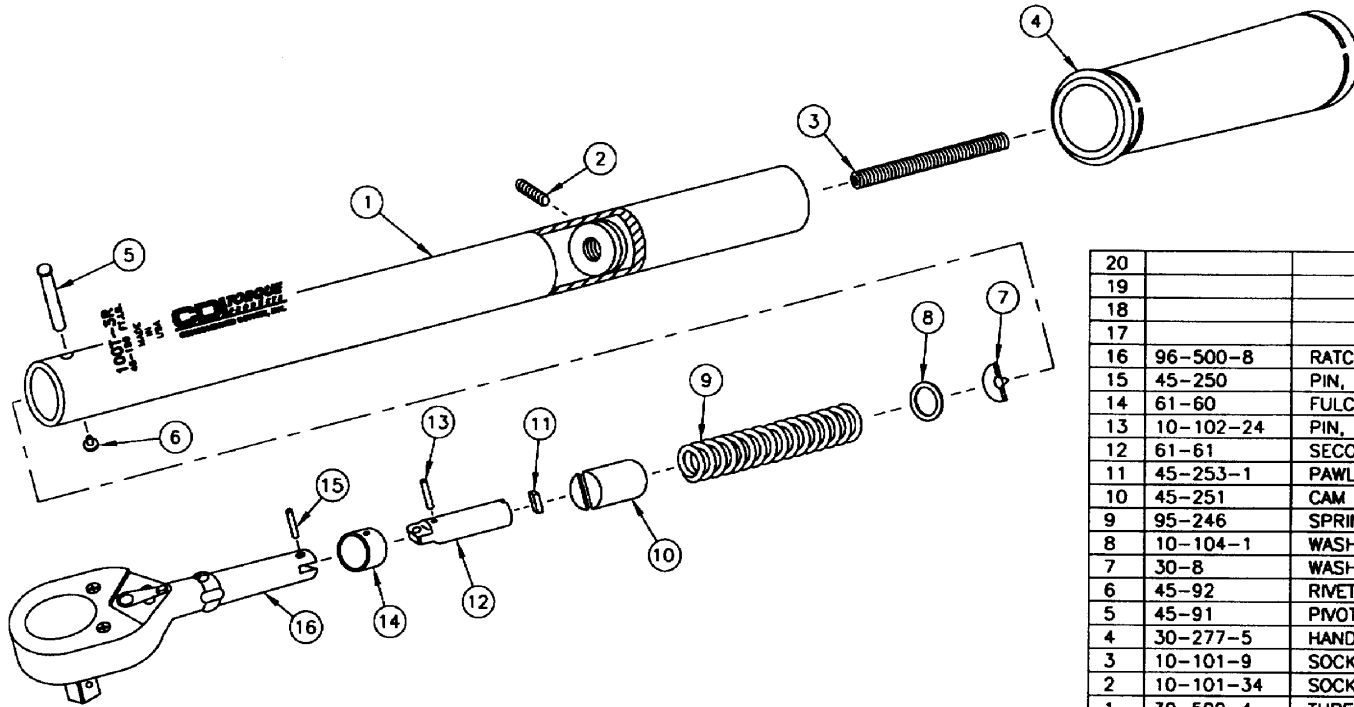
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONSOLIDATED DEVICES, INC. City of Industry, California	
FRACTIONS	DECIMALS	ANGLES	EXPLODED ILLUSTRATION 100T-I (30-150 FT.LB.) PRESET INTERCHANGEABLE HEAD CDI
±1/32	.XX ±.01	±1/2°	
MATERIAL			
FINISH			
DRWING	A.M.V.	SCALE	NONE
APPROVED	<i>Jay</i>	DATE	2-18-99
DRAWING NO.			30-1355

NOTES:

100T-I CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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20			
19			
18			
17			
16	96-500-8	RATCHET BODY ASSEMBLY	1
15	45-250	PIN, ROLLER	1
14	61-60	FULCRUM	1
13	10-102-24	PIN, FULCRUM	1
12	61-61	SECONDARY ARM	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	95-246	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-277-5	HAND GRIP	1
3	10-101-9	SOCKET SETSCREW, PLUG	1
2	10-101-34	SOCKET SETSCREW, LOCKING	1
1	30-500-4	TUBE ASSEMBLY, PRESET LASER MARK	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ±1/32 .XX ±.01 ±1/2° .XXX .005	CONSOLIDATED DEVICES, INC. City of Industry, California				
	EXPLODED ILLUSTRATION 1/2" DRIVE RATCHET HEAD PRESET 100T-3R (45-150 FT.LB.) CDI				
MATERIAL	DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
FINISH	APPROVED	<i>[Signature]</i>	DATE	2-19-99	30-1357-1

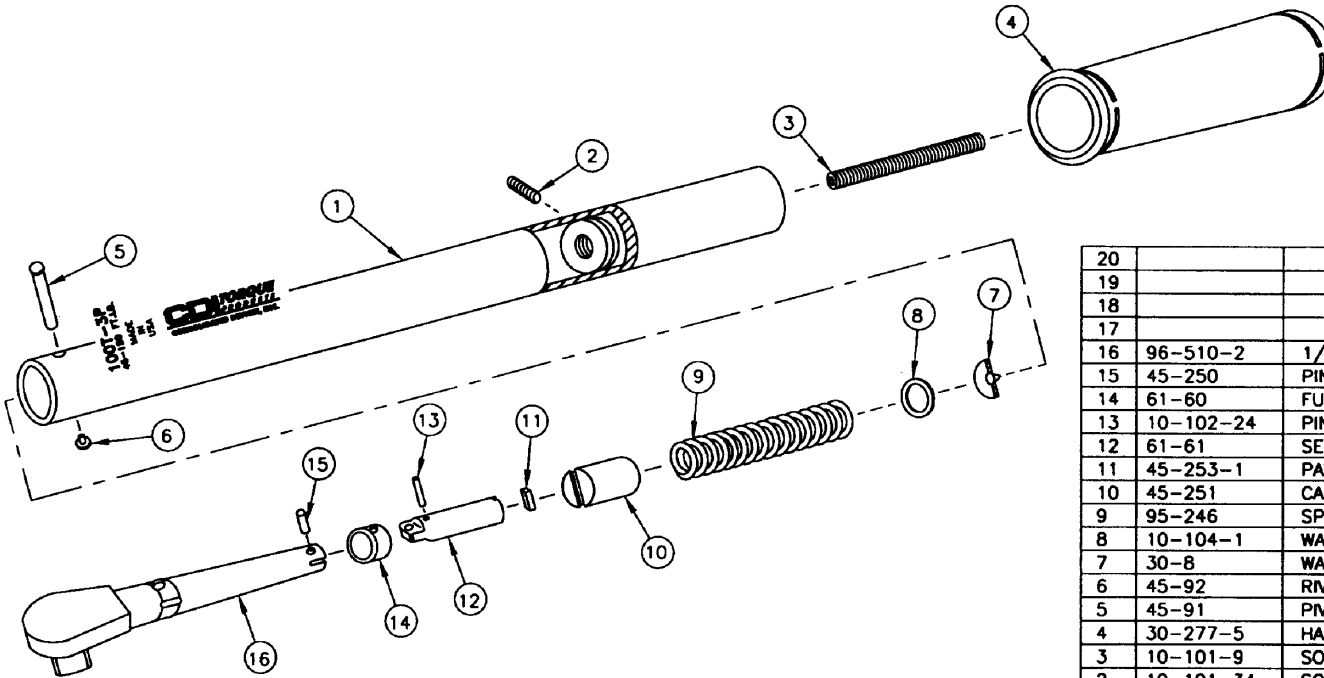
UNCONTROLLED COPY
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NOTES:

100T-3R CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED



20			
19			
18			
17			
16	96-510-2	1/2" PLAIN DRIVE	1
15	45-250	PIN, ROLLER	1
14	61-60	FULCRUM	1
13	10-102-24	PIN, FULCRUM	1
12	61-61	SECONDARY ARM	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	95-246	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-277-5	HAND GRIP	1
3	10-101-9	SOCKET SETSCREW, PLUG	1
2	10-101-34	SOCKET SETSCREW, LOCKING	1
1	30-500-24	TUBE ASSEMBLY, PRESET LASER MARK	1
ITEM	PART NO.	DESCRIPTION	REQ'D

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 For Reference Only
 DATE: AUG 17 2000
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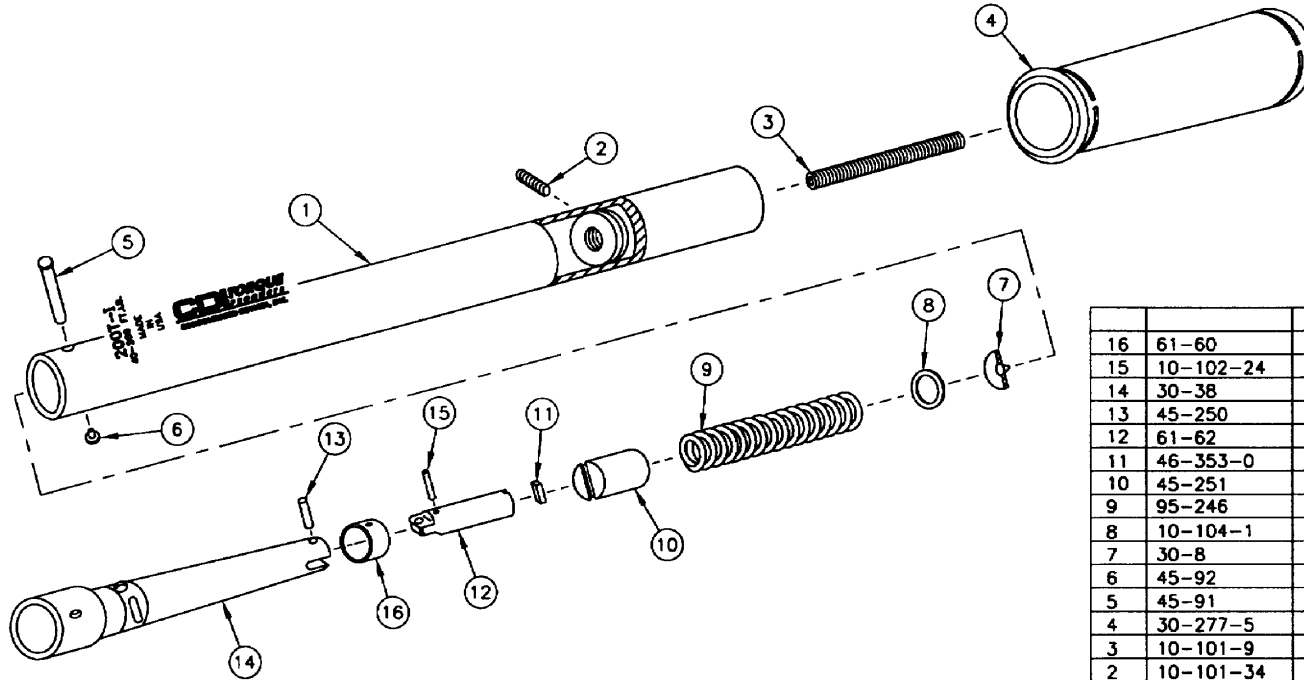
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
CONSOLIDATED DEVICES, INC City of Industry, California			
EXPLODED ILLUSTRATION 1/2" DRIVE PLAIN HEAD PRESET 100T-3P (45-150 FT.LB.) CDI			
FRACTIONS 1/32	DECIMALS .001	ANGLES 1/2°	
MATERIAL			
FINISH			
DRAWN A.M.V.	SCALE NONE	DRAWING NO. 30-1457-1	
APPROVED <i>Jay</i>	DATE 2-18-99		

NOTES:

100T-3P CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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ITEM	PART NO.	DESCRIPTION	REQ'D
16	61-60	FULCRUM	1
15	10-102-24	PIN	1
14	30-38	INTERCHANGEABLE HEAD	1
13	45-250	PIN, ROLLER	1
12	61-62	SECONDARY ARM	1
11	46-353-0	PAWL	1
10	45-251	CAM	1
9	95-246	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-277-5	HAND GRIP	1
3	10-101-9	SOCKET SETSCREW, PLUG	1
2	10-101-34	SOCKET SETSCREW, LOCKING	1
1	30-500-49	TUBE ASSEMBLY, PRESET LASER MARK	1

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UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE
 FRACTIONS DECIMALS ANGLES
 ±1/32 .001 ±1/2°
 .0005 .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC
 City of Industry, California

EXPLODED ILLUSTRATION
 200T-I (40-200 FT.LB.) PRESET
 INTERCHANGEABLE HEAD CDI

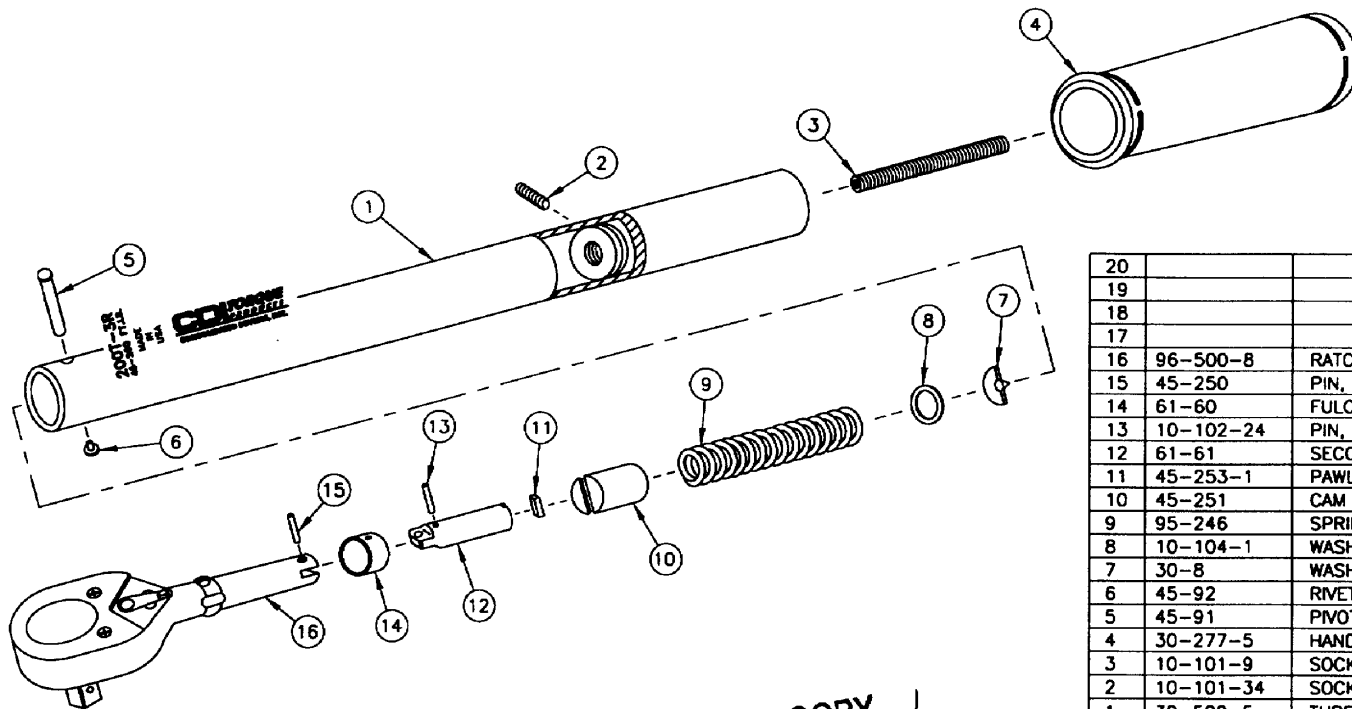
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.	30-1257-3
APPROVED	<i>Jay</i>	DATE	2-18-99		

NOTES:

200T-I CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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20			
19			
18			
17			
16	96-500-8	RATCHET BODY ASSEMBLY	1
15	45-250	PIN, ROLLER	1
14	61-60	FULCRUM	1
13	10-102-24	PIN, FULCRUM	1
12	61-61	SECONDARY ARM	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	95-246	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-277-5	HAND GRIP	1
3	10-101-9	SOCKET SETSCREW, PLUG	1
2	10-101-34	SOCKET SETSCREW, LOCKING	1
1	30-500-5	TUBE ASSEMBLY, PRESET LASER MARK	1
ITEM	PART NO.	DESCRIPTION	REQ'D

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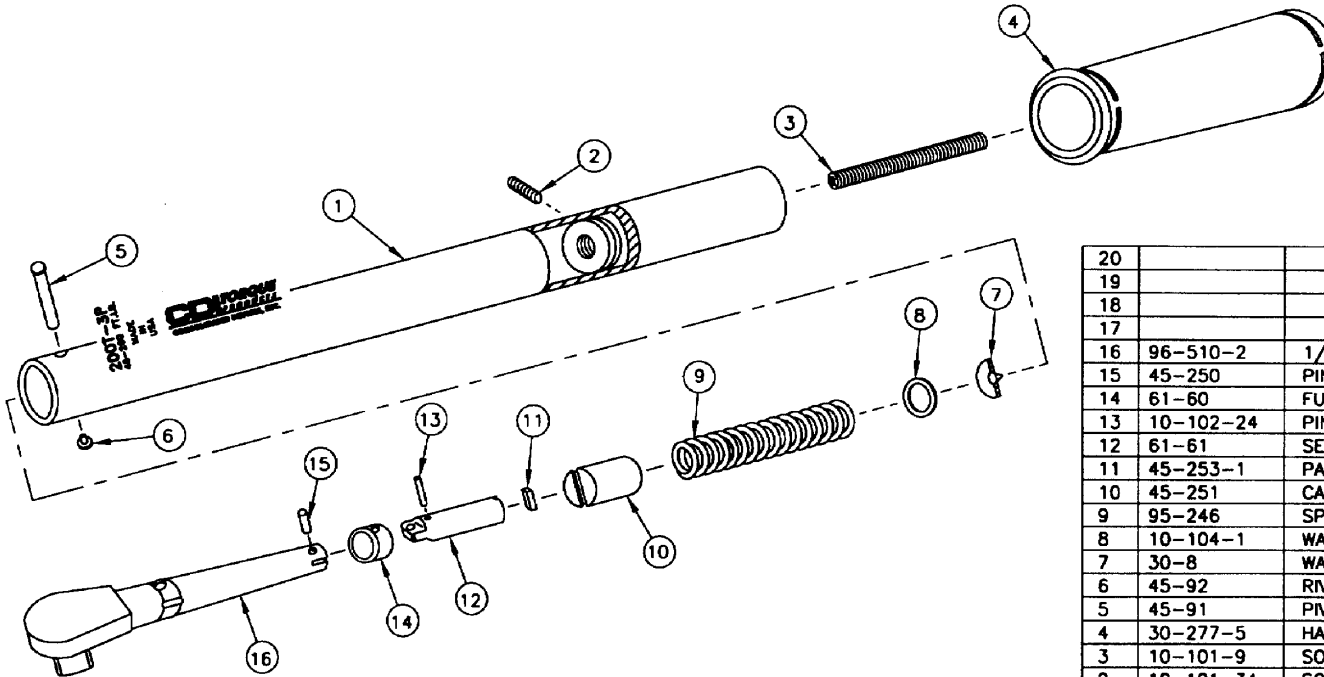
NOTES:

PARTS LIST													
CONSOLIDATED DEVICES, INC City of Industry, California													
EXPLODED ILLUSTRATION 1/2" DRIVE RATCHET HEAD PRESET 200T-3R (45-200 FT.LB.) CDI													
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE	<table border="1"> <tr> <td>DRAWN</td> <td>A.M.V.</td> <td>SCALE</td> <td>NONE</td> <td>DRAWING NO.</td> </tr> <tr> <td>APPROVED</td> <td><i>Jag</i></td> <td>DATE</td> <td>2-18-99</td> <td>30-1357-2</td> </tr> </table>			DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.	APPROVED	<i>Jag</i>	DATE	2-18-99	30-1357-2
DRAWN				A.M.V.	SCALE	NONE	DRAWING NO.						
APPROVED	<i>Jag</i>	DATE	2-18-99	30-1357-2									
FRACTIONS DECIMALS ANGLES ±1/32 .XX ±.01 ±1/2° .XXXL .005	MATERIAL												
FINISH													

200T-3R CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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20			
19			
18			
17			
16	96-510-2	1/2" PLAIN DRIVE	1
15	45-250	PIN, ROLLER	1
14	61-60	FULCRUM	1
13	10-102-24	PIN, FULCRUM	1
12	61-61	SECONDARY ARM	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	95-246	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-277-5	HAND GRIP	1
3	10-101-9	SOCKET SETSCREW, PLUG	1
2	10-101-34	SOCKET SETSCREW, LOCKING	1
1	30-500-25	TUBE ASSEMBLY, PRESET LASER MARK	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

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UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 .001 .01 ± 1/2°
 .XXXX .005

CONSOLIDATED DEVICES INC
 City of Industry, California

EXPLODED ILLUSTRATION
 1/2" DRIVE PLAIN HEAD PRESET
 200T-3P (45-200 FT.LB.) CDI

MATERIAL

FINISH

APPROVED *JW*

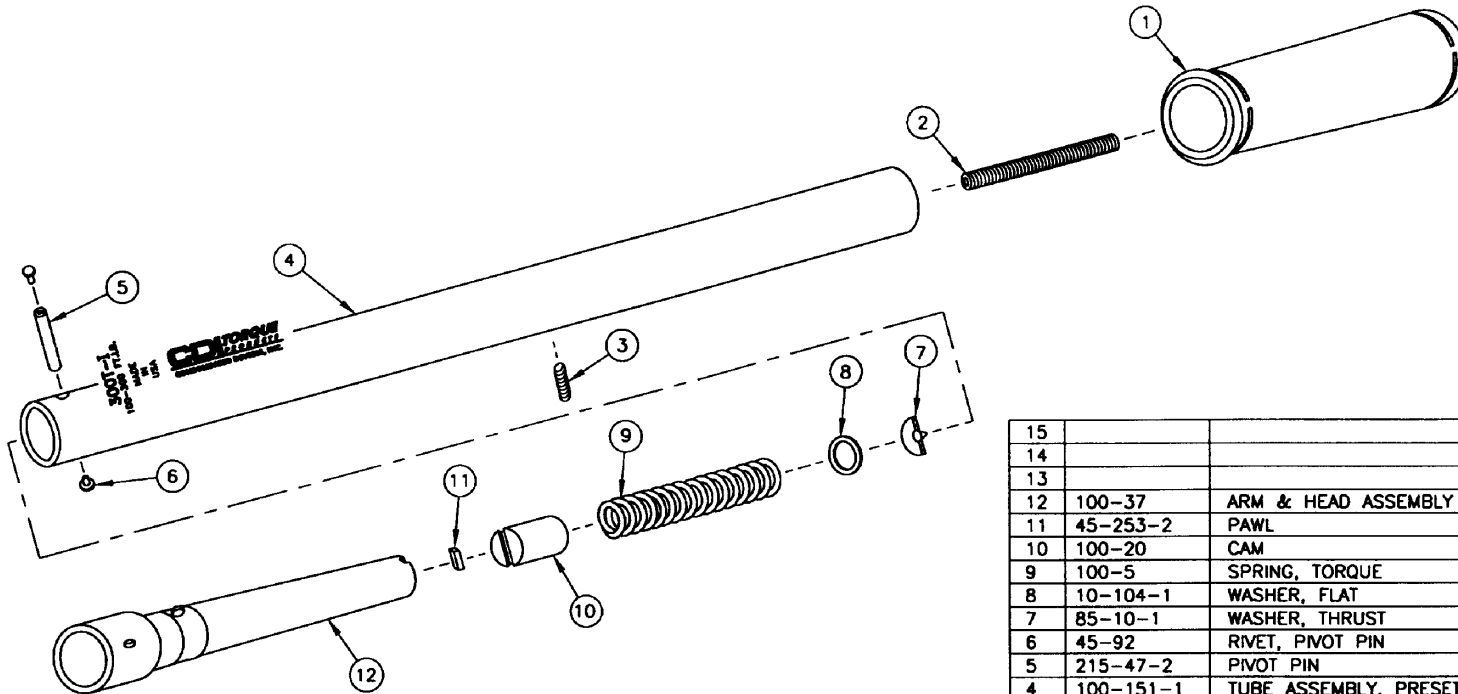
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>JW</i>	DATE	2-18 99	30-1457-2

NOTES:

200T-3P CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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15			
14			
13			
12	100-37	ARM & HEAD ASSEMBLY (INTERCHANGEABLE)	1
11	45-253-2	PAWL	1
10	100-20	CAM	1
9	100-5	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	85-10-1	WASHER, THRUST	1
6	45-92	RIVET, PMOT PIN	2
5	215-47-2	PIVOT PIN	1
4	100-151-1	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-12	SOCKET SETSCREW, LOCKING	1
2	10-101-11	SOCKET SETSCREW, PLUG	1
1	30-377-1AP	HAND GRIP	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .001 ±.01 ±1/2°
 .0001 .0005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 300T-1 100-300 FT.LB. PRESET
 INTERCHANGEABLE HEAD CDI

MATERIAL

FINISH

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>Jay</i>	DATE	3-22-99	100-1316-2

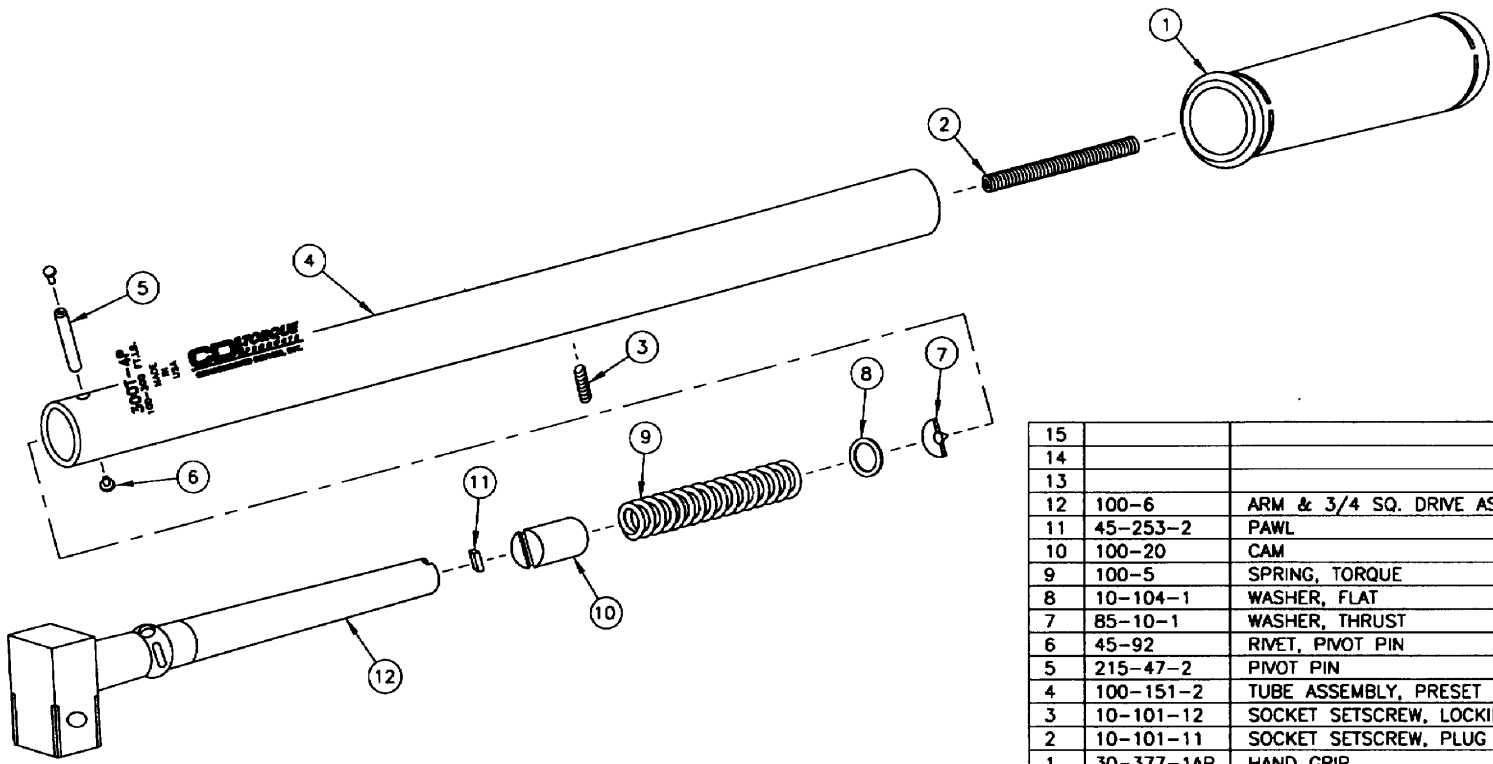
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NOTES:

300T-1 CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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15			
14			
13			
12	100-6	ARM & 3/4 SQ. DRVE ASSEMBLY	1
11	45-253-2	PAWL	1
10	100-20	CAM	1
9	100-5	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	85-10-1	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	2
5	215-47-2	PIVOT PIN	1
4	100-151-2	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-12	SOCKET SETSCREW, LOCKING	1
2	10-101-11	SOCKET SETSCREW, PLUG	1
1	30-377-1AP	HAND GRIP	1
ITEM	PART NO.	DESCRIPTION	REQ'D

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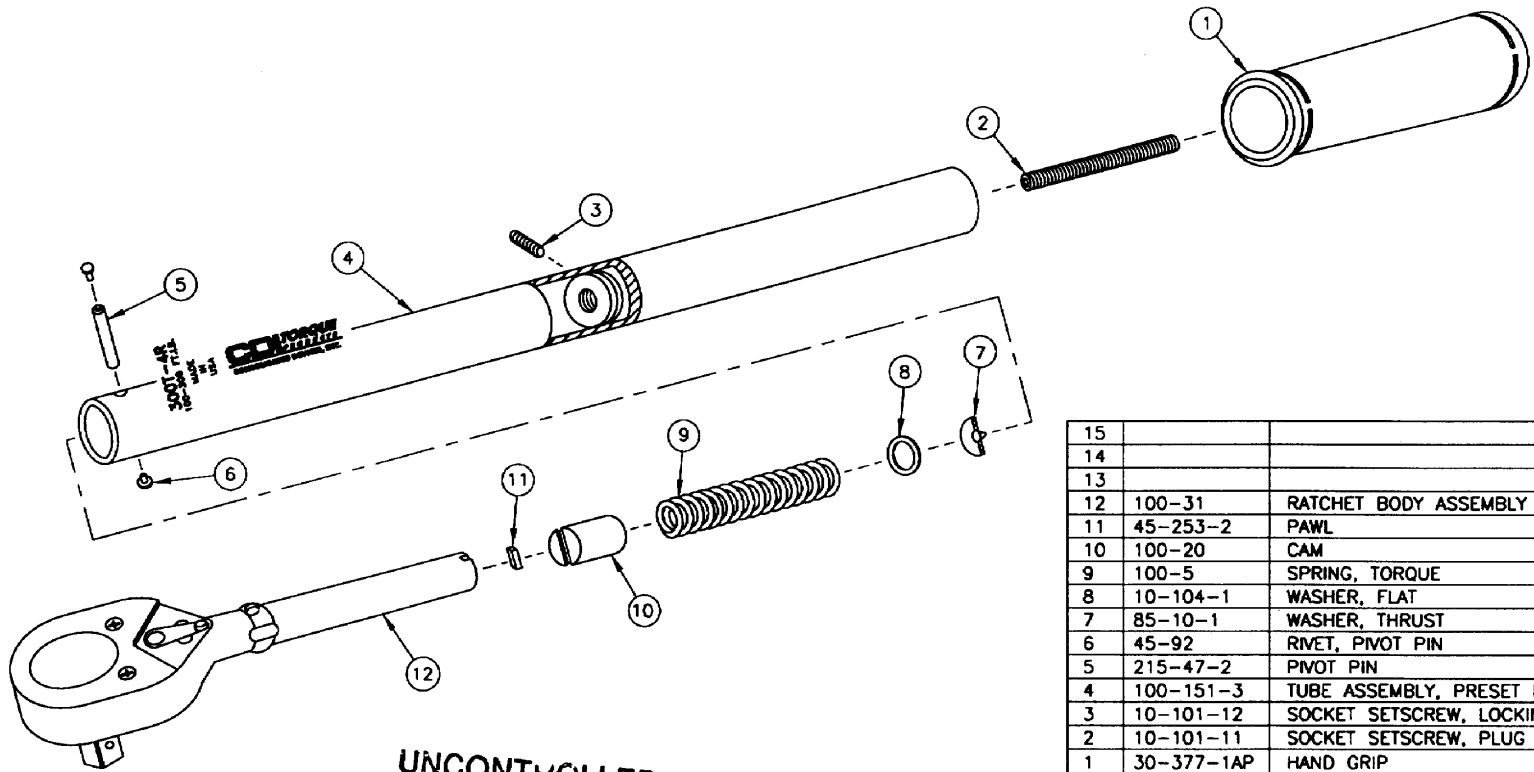
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/32 .001 ±.01 ±1/2° XXXX.005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION 300T-4P 100-300 FT.LB. PRESET 3/4 DRIVE PLAIN CDI	
FINISH		DRAWN A.M.V.	SCALE NONE
		APPROVED <i>[Signature]</i>	DATE 3-22-99
		DRAWING NO. 100-1316-1	

NOTES:

300T-4P CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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15			
14			
13			
12	100-31	RATCHET BODY ASSEMBLY	1
11	45-253-2	PAWL	1
10	100-20	CAM	1
9	100-5	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	85-10-1	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	2
5	215-47-2	PIVOT PIN	1
4	100-151-3	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-12	SOCKET SETSCREW, LOCKING	1
2	10-101-11	SOCKET SETSCREW, PLUG	1
1	30-377-1AP	HAND GRIP	1
ITEM	PART NO.	DESCRIPTION	REQ'D

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 DATE: AUG 17 2000
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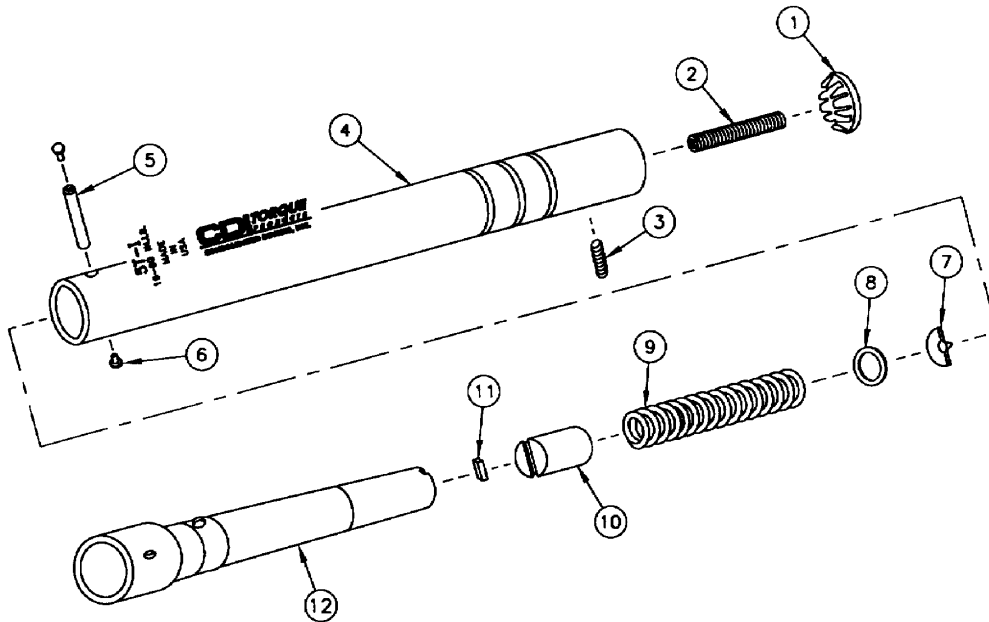
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .XX ± .01 ± 1/2° .XXX ± .005		CONSOLIDATED DEVICES, INC. City of Industry, California	
MATERIAL		EXPLODED ILLUSTRATION 300T-4R 100-300 FT.LB. PRESET 3/4 DR. RATCHET HEAD CDI	
FINISH		DRAWN A.M.V. SCALE NONE DRAWING NO.	100-1316-3
		APPROVED <i>JR</i> DATE 2-16-89	

SEE 46-253-TAB FOR WRENCHES TO BE RECALIBRATED.
 NOTES:

300T-4R

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BY	LTR	DESCRIPTION	DATE	APPROVED
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15			
14			
13			
12	50-3	ARM, CLICK	1
11	61-18-0	PIVOT BLOCK	1
10	50-16	CAM	1
9	25-13	SPRING, TORQUE	1
8	10-104-2	WASHER, FLAT	A/R
7	50-1	WASHER, THRUST	1
6	61-263	RIVET, PIVOT PIN	2
5	61-262	PIVOT PIN	1
4	50-104-1	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-2	SOCKET SETSCREW, LOCKING	1
2	10-101-10	SOCKET SETSCREW, PLUG	1
1	10-103-1	BUTTON PLUG	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

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 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:

FRACTIONS DECIMALS ANGLES
 $\pm 1/32$ ± 0.01 $\pm 1/2^\circ$
 XXXX.005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 5T-I (16-60 IN.LB.) PRESET
 INTERCHANGEABLE HEAD CDI

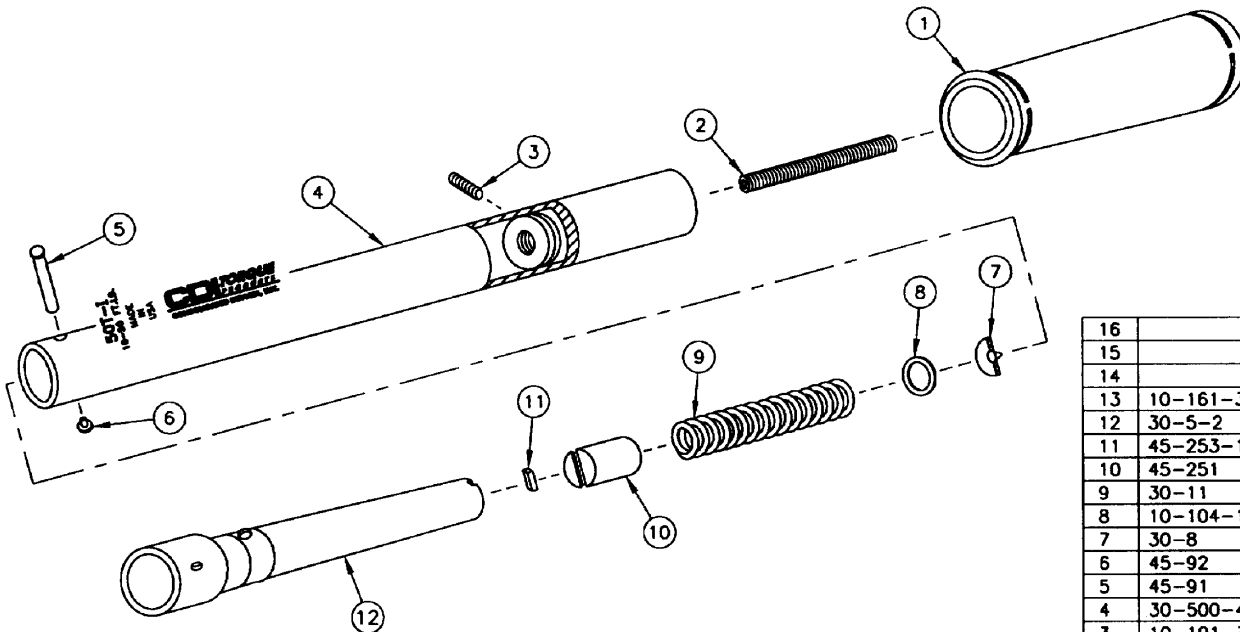
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>Jdy</i>	DATE	3-3-99	50-105-4

NOTES:

5T-I CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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16			
15			
14			
13	10-161-3	BOX, MASTER (NOT SHOWN)	1
12	30-5-2	ARM, CLICK	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	30-11	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-500-44	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-34	SOCKET SETSCREW, LOCKING	1
2	10-101-8	SOCKET SETSCREW, PLUG	1
1	30-277-4	HAND GRIP	1

ITEM	PART NO.	DESCRIPTION	REQ'D
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE

FRACTIONS DECIMALS ANGLES
 $\pm 1/32$.XX $\pm .01$ $\pm 1/2^\circ$
 .XXXX .005

MATERIAL

FINISH

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
50T-I 10-50 FT.LB. PRESET
 INTERCHANGEABLE HEAD **CDI**

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>Joy</i>	DATE	2-18-99	30-1317-4

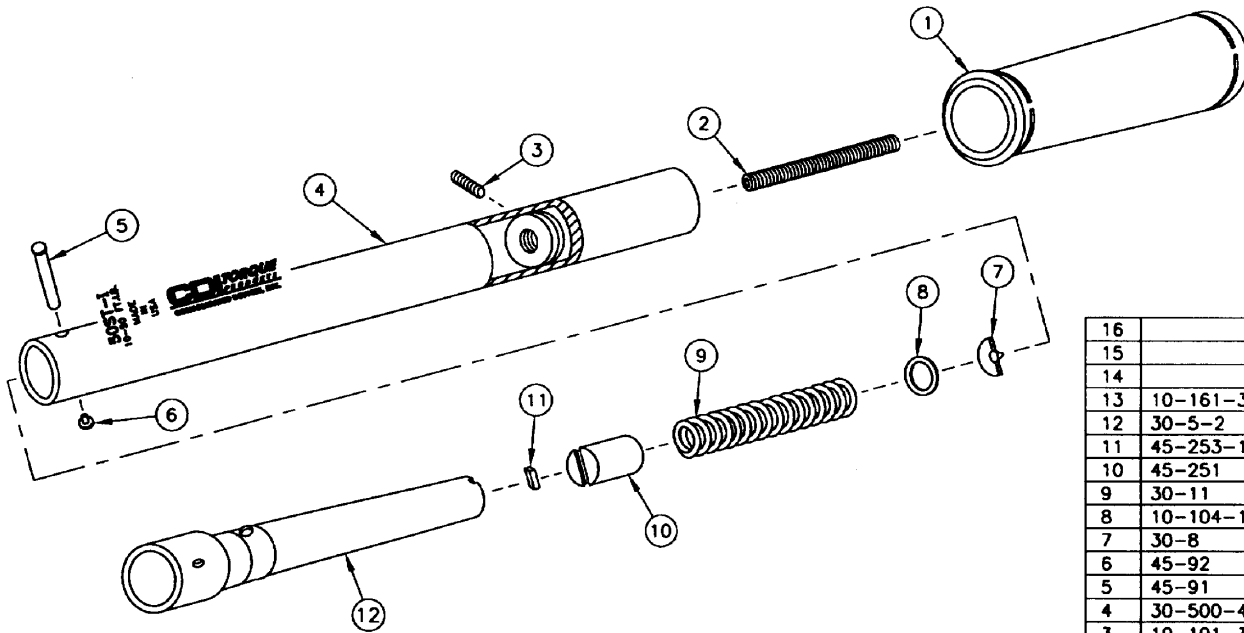
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NOTES:

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BY	LTR	DESCRIPTION	DATE	APPROVED
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16			
15			
14			
13	10-161-3	BOX, MASTER (NOT SHOWN)	1
12	30-5-2	ARM, CLICK	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	30-11	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-500-46	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-34	SOCKET SETSCREW, LOCKING	1
2	10-101-8	SOCKET SETSCREW, PLUG	1
1	30-277-3	HAND GRIP	1
ITEM	PART NO.	DESCRIPTION	REQ'D

UNCONTROLLED COPY
 For Reference
 AUG 17 2000
 DATE: _____
 Not valid after _____ Days

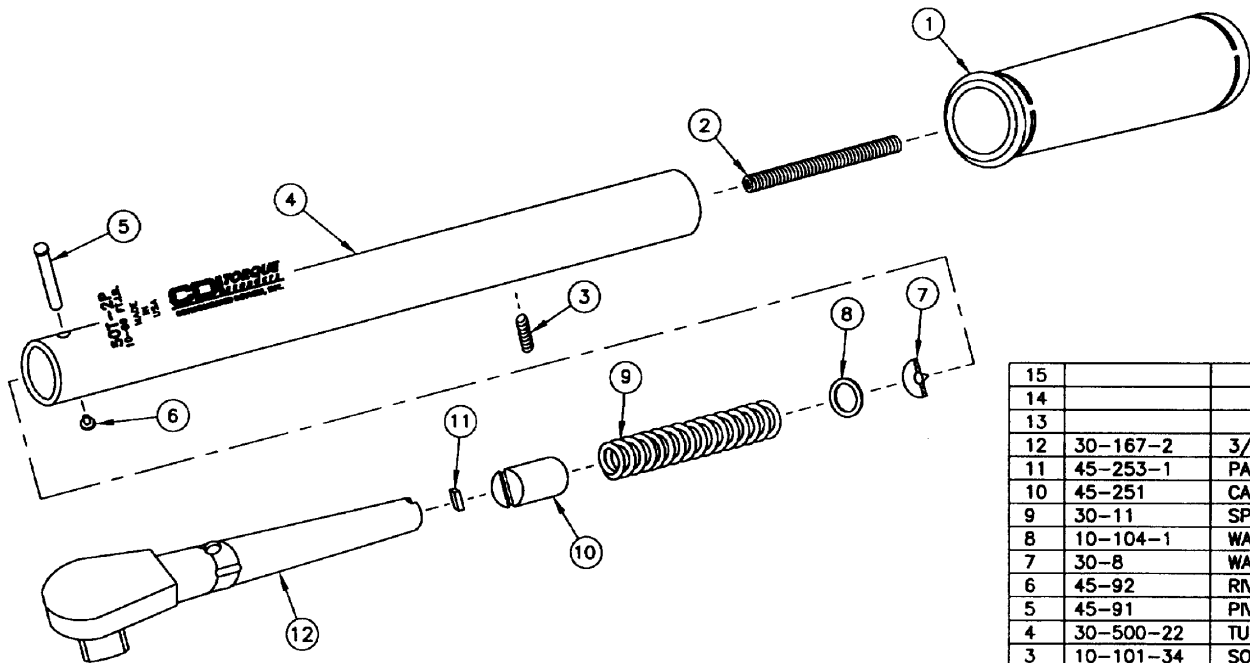
NOTES:

PARTS LIST			
CONSOLIDATED DEVICES, INC. City of Industry, California			
EXPLODED ILLUSTRATION 50ST-I 10-50 FT.LB. PRESET INTERCHANGEABLE HEAD CDI			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/32 .XX ±.01 ±1/2° .XXX ±.005	MATERIAL: _____ FINISH: _____		
DRAWN: A.M.V. APPROVED: <i>JM</i>	SCALE: NONE DATE: 2-18-89	DRAWING NO.: 30-1317-5	

50ST-I CAI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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15			
14			
13			
12	30-167-2	3/8" SQ. DRIVE FIXED TORQUE HEAD	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	30-11	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-500-22	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-34	SOCKET SETSCREW, LOCKING	1
2	10-101-8	SOCKET SETSCREW, PLUG	1
1	30-277-4	HAND GRIP	1
ITEM	PART NO.	DESCRIPTION	REQ'D

UNCONTROLLED COPY
 For Reference Only
 DATE: AUG 17 2000
 Not valid after _____ Days

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 ± .01 ± 1/2°
 .XXX ± .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 50T-2P 10-50 FT.LB. PRESET

CDI

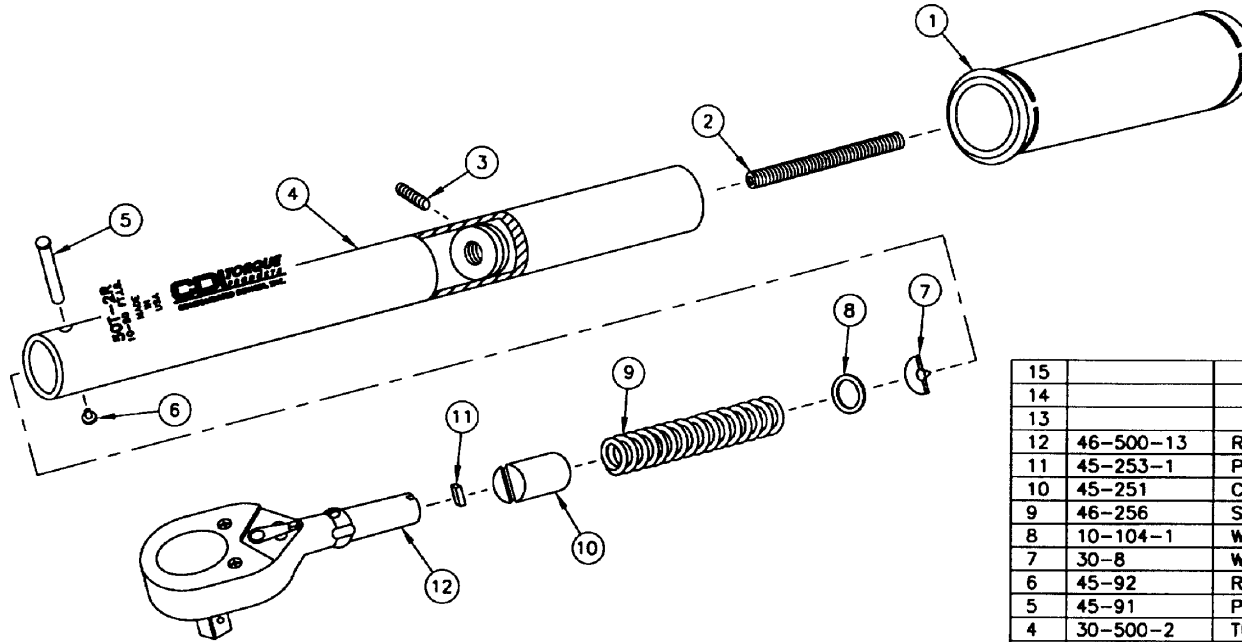
DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>Jay</i>	DATE	6-4-99	30-1317-6

NOTES:

50T-2P CDI

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BY	LTR	DESCRIPTION	DATE	APPROVED
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15			
14			
13			
12	46-500-13	RATCHET BODY ASSEMBLY	1
11	45-253-1	PAWL	1
10	45-251	CAM	1
9	46-256	SPRING, TORQUE	1
8	10-104-1	WASHER, FLAT	A/R
7	30-8	WASHER, THRUST	1
6	45-92	RIVET, PIVOT PIN	1
5	45-91	PIVOT PIN	1
4	30-500-2	TUBE ASSEMBLY, PRESET LASER MARK	1
3	10-101-34	SOCKET SETSCREW, LOCKING	1
2	10-101-8	SOCKET SETSCREW, PLUG	1
1	30-277-10	HAND GRIP	1
ITEM	PART NO.	DESCRIPTION	REQ'D

UNCONTROLLED COPY
 For Reference Only
 DATE: AUG 17 2000
 Not valid after _____ Days

PARTS LIST

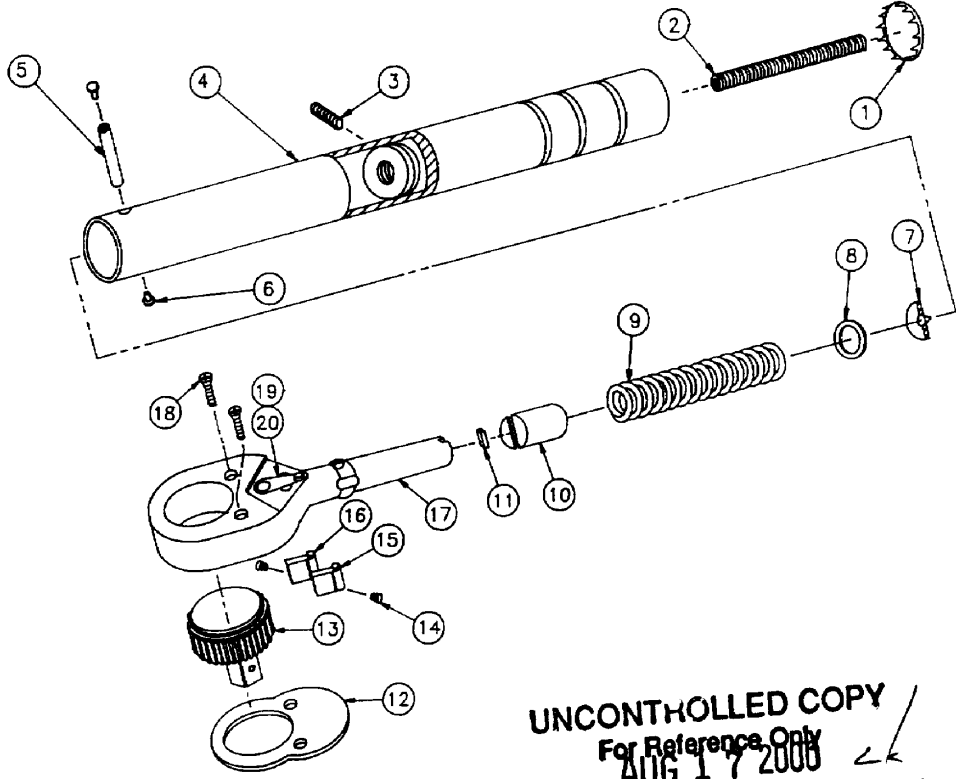
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/32 .001 ±.01 ±1/2° .0002 .005	CONSOLIDATED DEVICES, INC. City of Industry, California		
	EXPLODED ILLUSTRATION 50T-2R 10-50 FT.LB. PRESET CDI		
MATERIAL	DRAWN	A.M.V.	SCALE NONE
FINISH	APPROVED	DATE	DRAWING NO.
		2-18-89	30-1317-8

NOTES:

50T-2R CDI

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REVISIONS				
BY	LTR	DESCRIPTION	DATE	APPROVED
JK	A	ITEM 11 WAS 45-253-1	9-15-93	Joy
SJ	B	ITEM 2 WAS 10-101-8	3-3-94	Joy



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 Not valid after _____ Days

- ⚠ FOR ASSEMBLY OF ITEMS 17, 19 & 20 SEE 61-101.
- ⚠ FOR COMPLETE ASSEMBLY OF ITEMS 12 THRU 20 SEE 61-115-0.

NOTES:

20	61-115-9	REVERSING CAM	1
19	61-115-8	REVERSING LEVER	1
18	61-115-7	SCREW	1
17	61-100	RATCHET BODY	1
16	61-115-5	DOG-RIGHT	1
15	61-115-4	DOG-LEFT	1
14	61-115-3	SPRING	1
13	61-115-2	RATCHET WHEEL	1
12	61-115-1	PLATE	1
11	50-1B	PAWL	1
10	50-16-1	CAM, MACHINED	1
9	25-13	SPRING, TORQUE	1
8	10-104-2	WASHER, FLAT	A/R
7	50-1	WASHER, THRUST	1
6	61-263	RIVET, PIVOT PIN	2
5	61-262	PIN, PIVOT	1
4	50-4	TUBE ASSEMBLY	1
3	10-101-2	SOCKET SETSCREW, LOCKING	1
2	10-101-10	SOCKET SETSCREW, PLUG	1
1	10-103-1	BUTTON PLUG	1

CODE IDENT	PART NO.	DESCRIPTION	REQD
PARTS LIST			

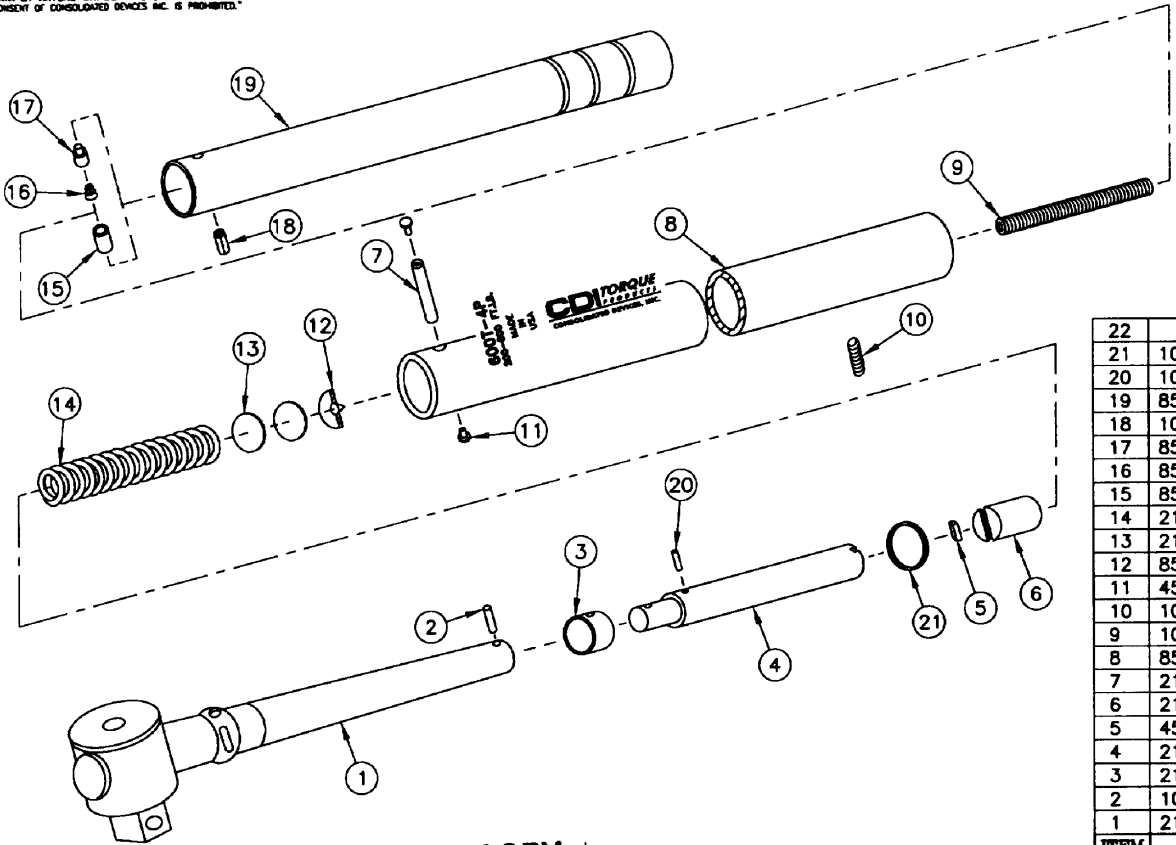
UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 .XX ± .01 ± 1/4°
 .XXX ± .005

CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 PRESET 1-5 FT.LB.
 5T-1R

MATERIAL	DRAWN <i>BJ</i>	SCALE NONE	DRAWING NO.
FINISH	APPROVED <i>Joy</i>	DATE 7-30-93	50-5-1

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 For Reference Only
 DATE: AUG 17 2000
 Not valid after _____ Days

1. ITEMS 15, 16, 17, 18 & 19 MAY BE FURNISHED AS ASSEMBLY, PART NO. 85-4.
 NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
----	-----	-------------	------	----------

22				
21	10-241-4	O-RING		1
20	10-102-23	PIN, FULCRUM		1
19	85-24	TUBE, EXTENSION		1
18	10-107-1	SPRING PIN		1
17	85-9-2	PLUNGER		1
16	85-27	SPRINGER, PLUNGER		1
15	85-8	SLEEVE, LOCKING PLUNGER		1
14	215-86	TORQUE SPRING		1
13	215-82-1	WASHER, FLAT		A/R
12	85-10-2	THRUST WASHER		1
11	45-92	RMET, PIVOT PIN		2
10	10-101-16	SOCKET SET SCREW		1
9	10-101-11	SOCKET SET SCREW		1
8	85-102-2	TUBE ASSEMBLY, PRESET LASER MARK		1
7	215-47-1	PIVOT PIN		1
6	215-32	CAM		1
5	45-253-3	PAWL		1
4	216-61-1	SECONDARY ARM		1
3	216-60	FULCRUM		1
2	10-102-4	PIN, FULCRUM		1
1	215-34	ARM & HEAD ASSEMBLY		1
ITEM	PART NO.	DESCRIPTION		REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/32 .005 ± .01 ± 1/2°
 .XXXL .005

MATERIAL

FINISH

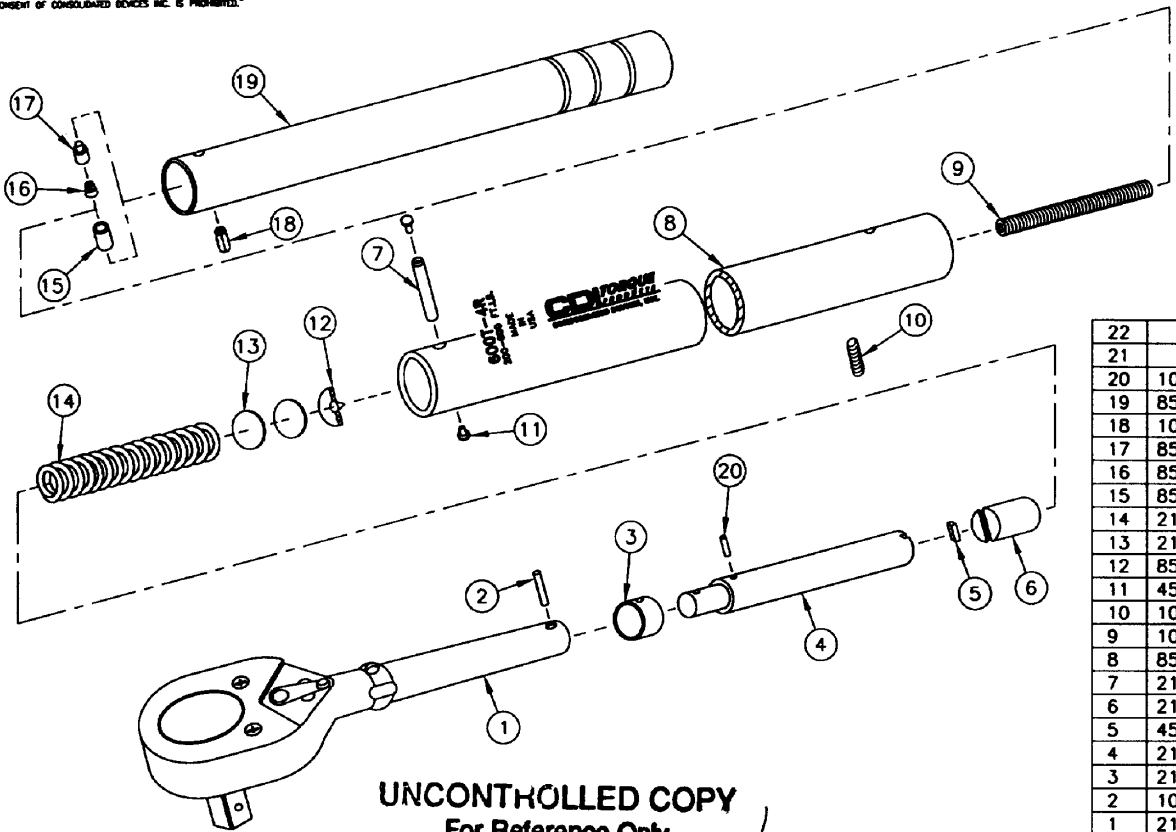
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
 600T-4P (200-600 FT.LB.) PRESET
 3/4 PLAIN DRIVE CDI

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>Jey</i>	DATE	8-11-99	85-140-1

600T-4P CDI

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For Reference Only
DATE: AUG 17 2000
 Not valid after _____ Days

1. ITEMS 15, 16, 17, 18 & 19 MAY BE FURNISHED AS ASSEMBLY, PART NO. 85-4.
NOTES:

BY	LTR	DESCRIPTION	DATE	APPROVED
----	-----	-------------	------	----------

22			
21			
20	10-102-23	PIN, FULCRUM	1
19	85-24	TUBE, EXTENSION	1
18	10-107-19	SPRING PIN	1
17	85-9-2	PLUNGER	1
16	85-27	SPRING, PLUNGER	1
15	85-8	SLEEVE, LOCKING PLUNGER	1
14	215-86	TORQUE SPRING	1
13	215-82-1	WASHER, FLAT	A/R
12	85-10-2	THRUST WASHER	1
11	45-92	RMET, PIVOT PIN	2
10	10-101-16	SOCKET SET SCREW	1
9	10-101-11	SOCKET SET SCREW	1
8	85-102-3	TUBE ASSEMBLY, PRESET LASER MARK	1
7	215-47-1	PIVOT PIN	1
6	215-32-1	CAM	1
5	45-253-3	PAWL	1
4	216-61-1	SECONDARY ARM	1
3	216-60	FULCRUM	1
2	10-102-4	PIN, FULCRUM	1
1	215-99	RATCHET BODY ASSEMBLY	1
ITEM	PART NO.	DESCRIPTION	REQ'D

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ±1/32 .XX ±.01 ±1/2°
 .XXX: .005

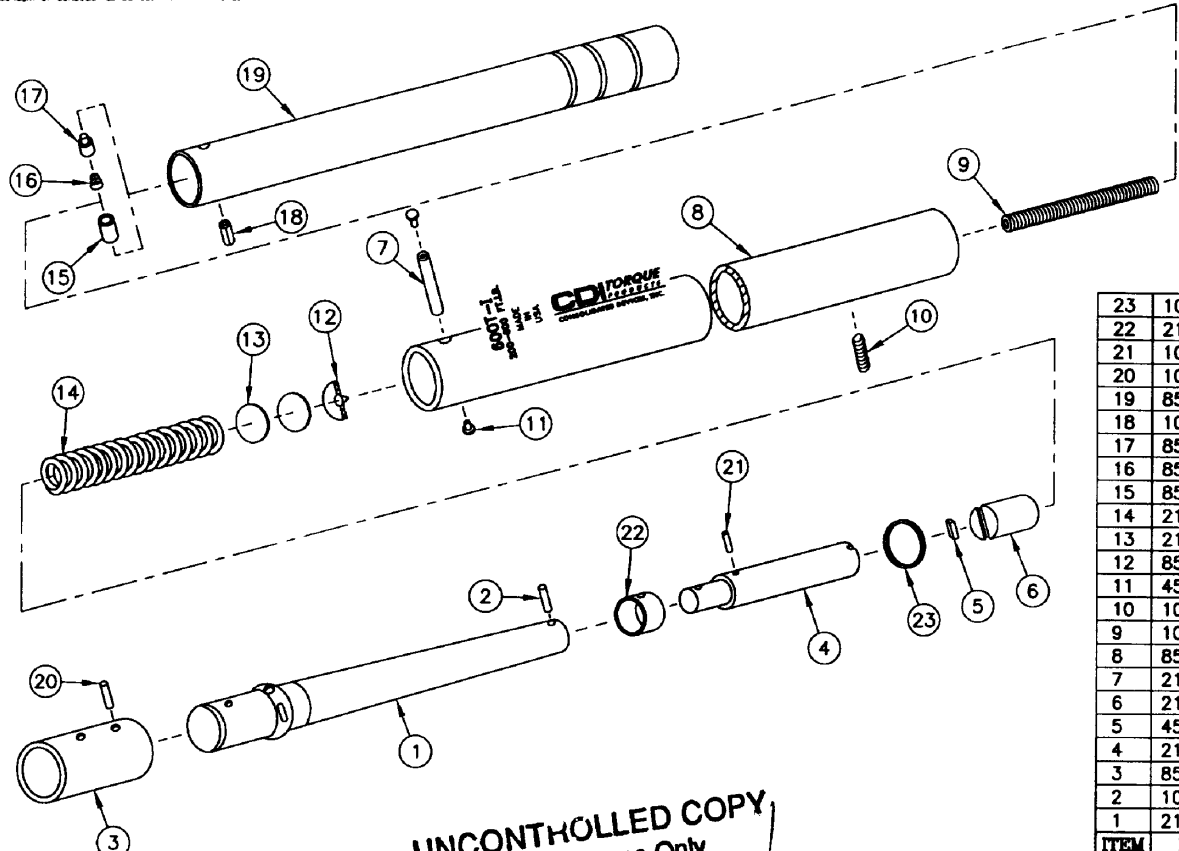
CONSOLIDATED DEVICES, INC.
 City of Industry, California

EXPLODED ILLUSTRATION
600T-4R (200-600 FT.LB.) PRESET
3/4" DR. RATCHET CDI

DRAWN	A.M.V.	SCALE	NONE	DRAWING NO.
APPROVED	<i>[Signature]</i>	DATE	3/15/99	85-141

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BY	LTR	DESCRIPTION	DATE	APPROVED
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23	10-241-4	O-RING	1
22	216-60	FULCRUM	1
21	10-102-23	PIN, FULCRUM	1
20	10-107-22	SPRING PIN	1
19	85-24	TUBE, EXTENSION	1
18	10-107-19	SPRING PIN	1
17	85-9-2	PLUNGER	1
16	85-27	SPRING, PLUNGER	1
15	85-8	SLEEVE, LOCKING PLUNGER	1
14	215-86	TORQUE SPRING	1
13	215-82-1	WASHER, FLAT	A/R
12	85-10-2	THRUST WASHER	1
11	45-92	RIVET, PIVOT PIN	2
10	10-101-16	SOCKET SET SCREW	1
9	10-101-11	SOCKET SET SCREW	1
8	85-102-1	TUBE ASSEMBLY, PRESET LASER MARK	1
7	215-47-1	PIVOT PIN	1
6	215-32	CAM	1
5	45-253-3	PAWL	1
4	216-61-1	SECONDARY ARM	1
3	85-42	SLEEVE	1
2	10-102-4	PIN, ROLLER	1
1	215-31	ARM, CLICK	1

UNCONTROLLED COPY
 For Reference Only
 DATE: **AUG 17 2000**
 Not valid after _____ Days

1. ITEMS 15, 16, 17, 18 & 19 MAY BE FURNISHED AS ASSEMBLY, PART NO. 85-4.
 NOTES:

ITEM	PART NO.	DESCRIPTION	REQ'D
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		CONSOLIDATED DEVICES, INC City of Industry, California	
FRACTIONS DECIMALS ANGLES 1/32 .XX ±.01 ±1/2° .XXX2 .005			
MATERIAL		EXPLODED ILLUSTRATION 600T-I (200-600 FT.LB.) PRESET INTERCHANGEABLE HEAD CDI	
FINISH			
DRAWN A.M.V.		SCALE NONE	DRAWING NO.
APPROVED <i>[Signature]</i>		DATE 8-12-99	85-143-1

600T-I CDI