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COOPER Power Tools

Parts Manual • Ersatzteil–Liste

PL12EN-1402 01/25/05

Cleco®

(EN) **Electric Tool Control**
TME-100 Series



TM	E	-	1	2	1	-	15	-	U	-	X	X	X	X

Controller Style
E = Electric

Model (Generation)
1 = 1st Generation

Channels
1 = Single
2 = Dual

Servo Type
1 = STMH

Options for Special Applications

Language
U = English
D = German
S = Spanish
P = Portuguese

Voltage
15 = 115V
30 = 230V

Refer to Programming Manual: PL12EN-1300

For additional product information visit our website at www.cooperpowertools.com

NORTH AMERICA

Cooper Power Tools
P.O. Box 1410
Lexington, SC 29071-1410

EUROPE

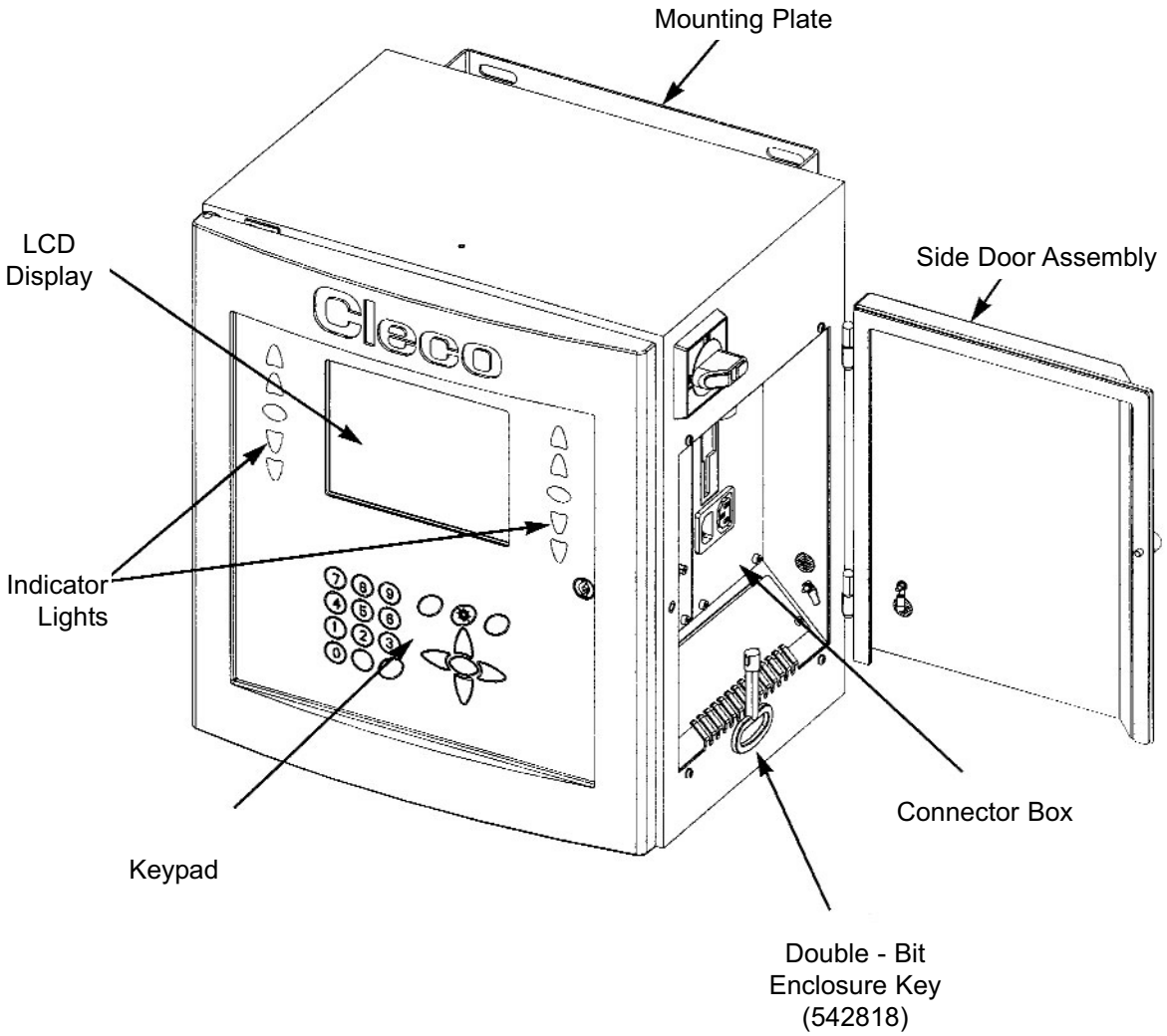
Cooper Power Tools GmbH & Co.
Postfach 30
D-73461 Westhausen, Germany

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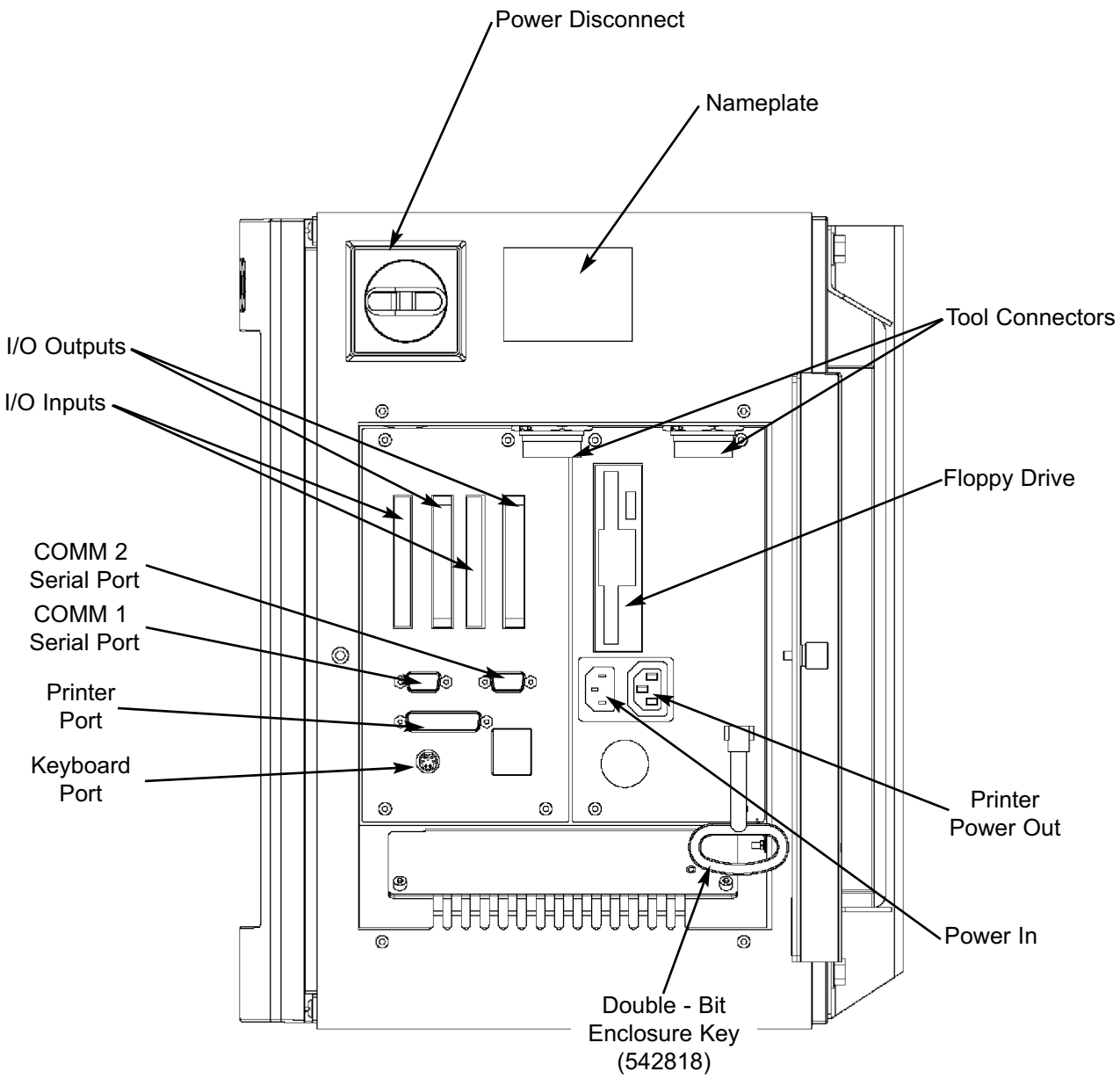
TME-100 Series Electric Tool Control

Main Components



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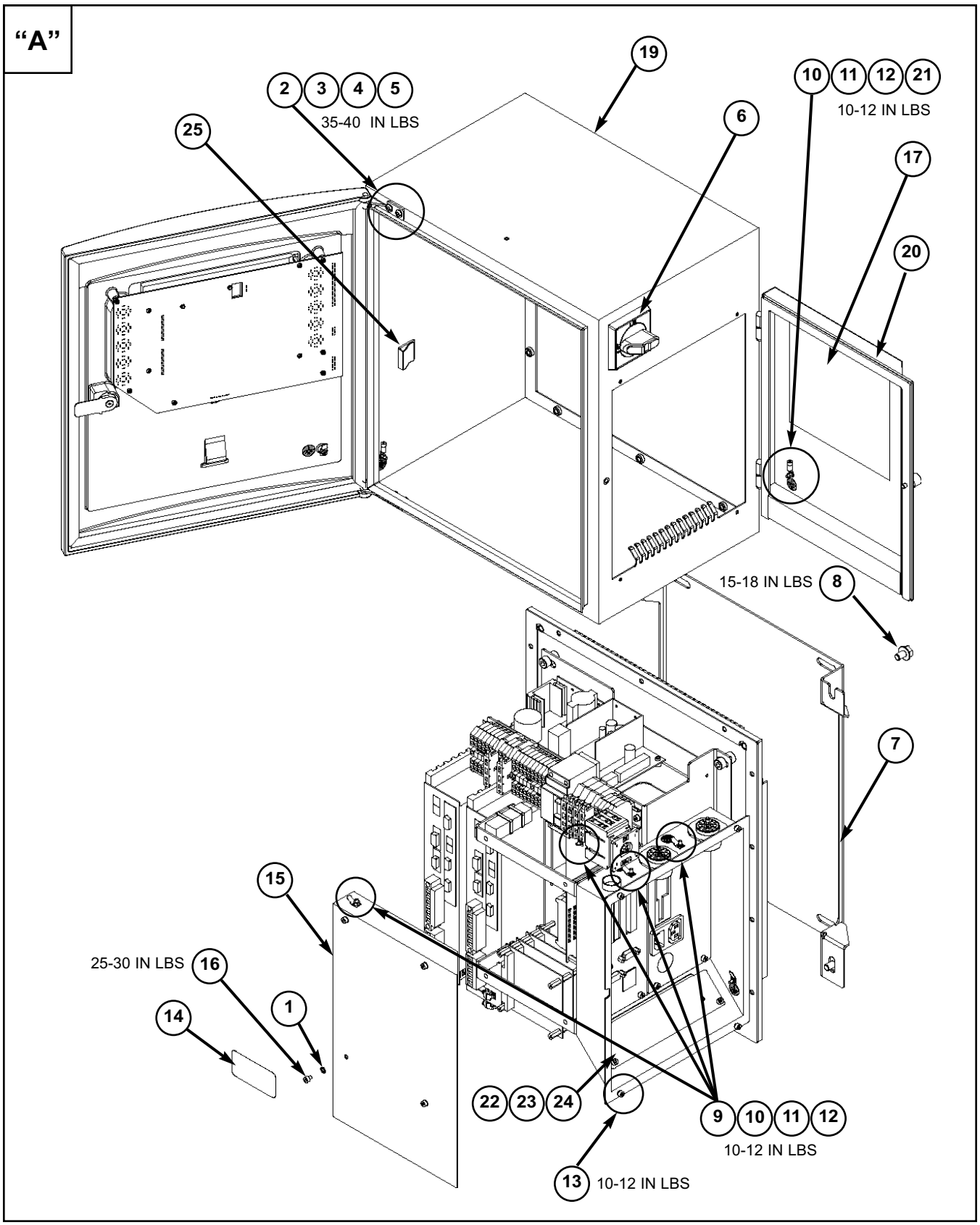
Main Components



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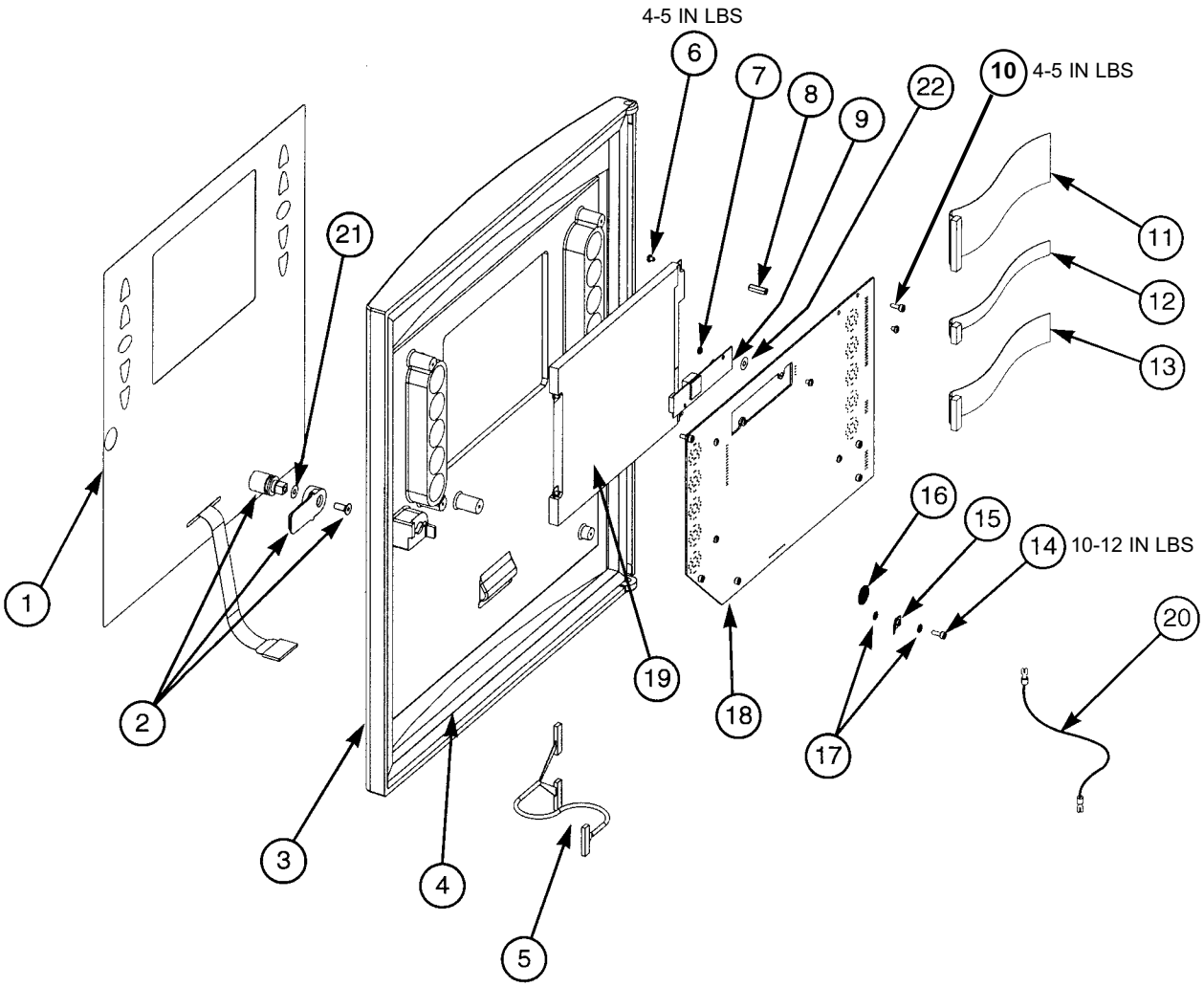
Index	Part Number	Description	#
1	542942-2	STARWASHER, M4 ZINC	4
2	542644	HINGE	2
3	542941-3	NUT, M5 x .8 - PREVAILING TORQUE	4
4	542940-5	SCREW, M5 x .8 x 15MM PHILLIPS	4
5	542815	GROOVED PIN	2
6	542817	POWER SWITCH HANDLE	1
7	542635-5	MOUNTING PLATE	1
8	542940-7	SCREW, M8 x 1.25 x 12MM FLANGED HEX	4
9	542944-1	45° QUICK-FIT TAB (ALL NOT SHOWN)	7
10	542947-7	NUT, M3 x .5 BRASS (ALL NOT SHOWN)	9
11	542942-1	STARWASHER, M3 BRASS (ALL NOT SHOWN)	18
12	541615	GROUND LABEL (ALL NOT SHOWN)	9
13	542940-10	SCREW, M4 x .7 x 6MM PAN HEAD PHILLIPS ZINC	4
14	541616	WARNING LABEL	1
15	542639	CHASSIS COVER	1
16	542940-4	SCREW, M4 x .7 x 6MM SHCS ZINC	4
17	542657	SIDE DOOR CONNECTOR LABEL	1
19	542635-3	ENCLOSURE BASE	1
20	542635-2	SIDE DOOR	1
21	542651-44	PE WIRE, SIDE DOOR	1
22	542907	ACCESSORY COVER	1
23	542940-9	SCREW, #10-32 x 1/4 IN SHCS ZINC	2
24	542908	ACCESSORY COVER GASKET	1
25	542944-13	CABLE CLIP	1

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TME-100 Series Electric Tool Control

"B"



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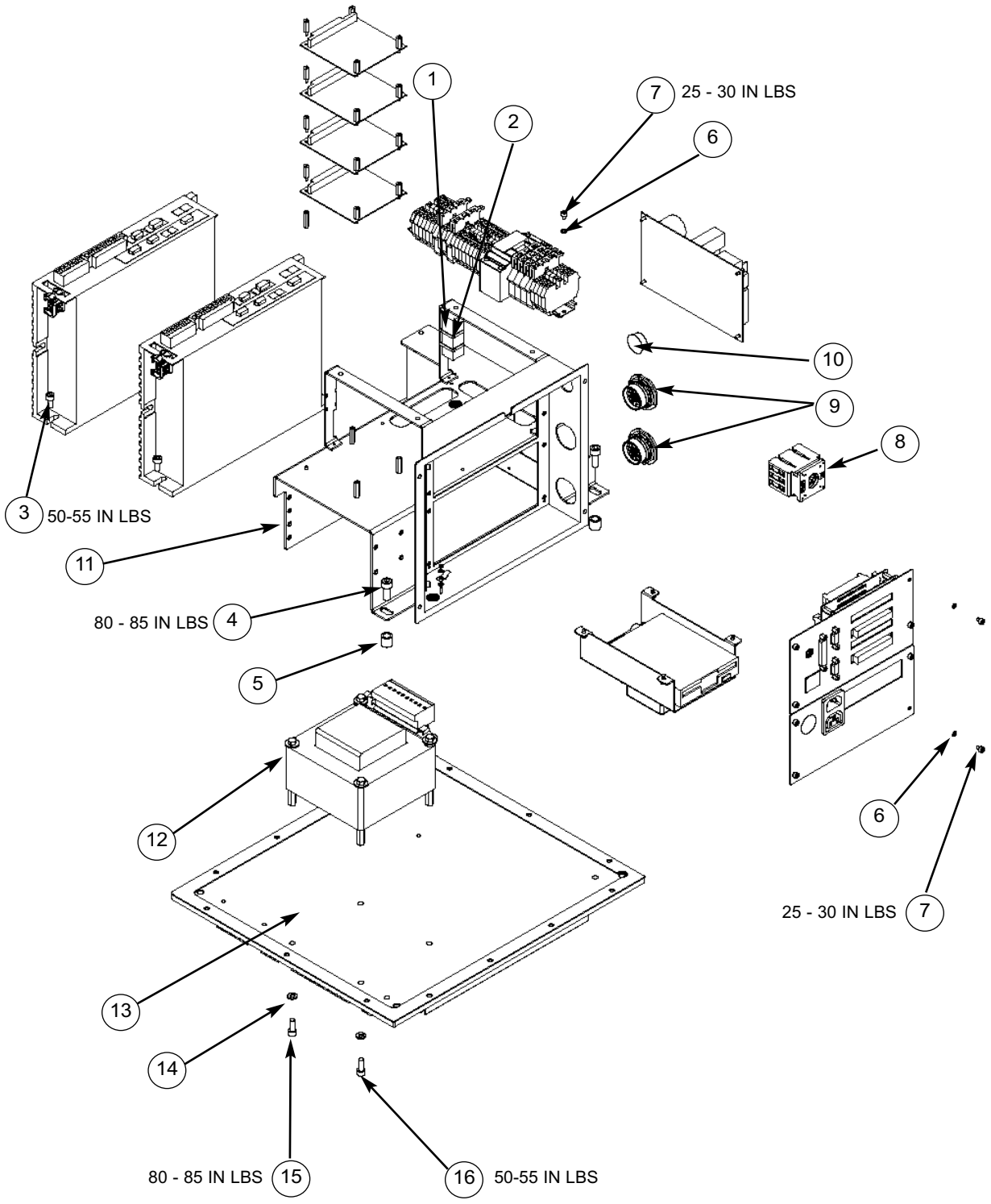
Index	Part Number	Description	#
1	542656	FACE LABEL / KEYPAD	1
2	542816	LOCK	1
3	542637	FRONT DOOR	1
4	542655	GASKET	1
5	542651-17	LCD / DISPLAY BOARD CABLE	1
6	542940-1	SCREW, #4-40 x 3/16 PAN PHILLIPS ZINC	10
7	542941-1	NUT, #4-40 ZINC	2
8	542943-4	STANDOFF, #4-40 x 3/16 HEX x .562FF ZINC	4
9	575936	LCD INVERTER	1
10	542940-2	SCREW, M3 x .5 x 8MM SHCS ZINC	6
11	542947-7	CPU / DISPLAY BOARD CABLE	1
12	542651-1	KEYPAD / DISPLAY BOARD CABLE	1
13	542651-3	IO BOARD / DISPLAY BOARD CABLE	1
14	542940-2	SCREW, M3 x .5 x 8MM SHCS ZINC	1
15	542944-1	45° QUICK-FIT TAB	1
16	541615	GROUND LABEL	1
17	542942-1	STARWASHER, M3 BRASS	2
18	PCA 2000	DISPLAY BOARD ASSEMBLY	1
19	575972	LCD	1
20	542651-43	PE WIRE, FRONT DOOR	1
21	1019356	WAVEWASHER	1
22	542942-3	WASHER, #4-40 NYLON	2

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TME-100 Series Electric Tool Control

"C"



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Index	Part Number	Description	#
1	575708	BATTERY	1
2	542944-6	CABLE TIES	2
3	542940-6	SCREW, M6 x 1 x 12MM SHCS ZINC	4
4	542940-20	SCREW, M8 x 1.25 x 20MM SHCS BLACK ZINC	3
5	543431	CHASSIS SPACER	3
6	542942-2	STARWASHER, M4 ZINC	10
7	542940-4	SCREW, M4 x .7 x 6MM SHCS ZINC	10
8	542808	POWER SWITCH	1
9	542651-19	TOOL CONNECTOR CABLE	2
10	542813	POWER HOLE PLUG	1
11	542638-10	CHASSIS	1
12	542809	TRANSFORMER	1
13	543430	HEATSINK ASSEMBLY	1
14	542942-4	LOCKWASHER, M6 SPLIT ZINC	4
15	542940-21	SCREW, M6 x 1.0 x 16MM SHCS BLACK ZINC	4
16	542940-22	SCREW, M6 x 1.0 x 20MM SFHS BLACK ZINC	14

Battery
The battery (CooperTools P/N 575708) can be found mounted to the chassis under the chassis cover. The battery supplies the realtime clock and ensures that the rundown data is not lost when the power supply is switched off.

Replacing the Battery
A new battery will do its job for several years. The exact battery life cannot be given since it depends on the scope of the system as well as on the tolerance scatter of the battery and memory chips.

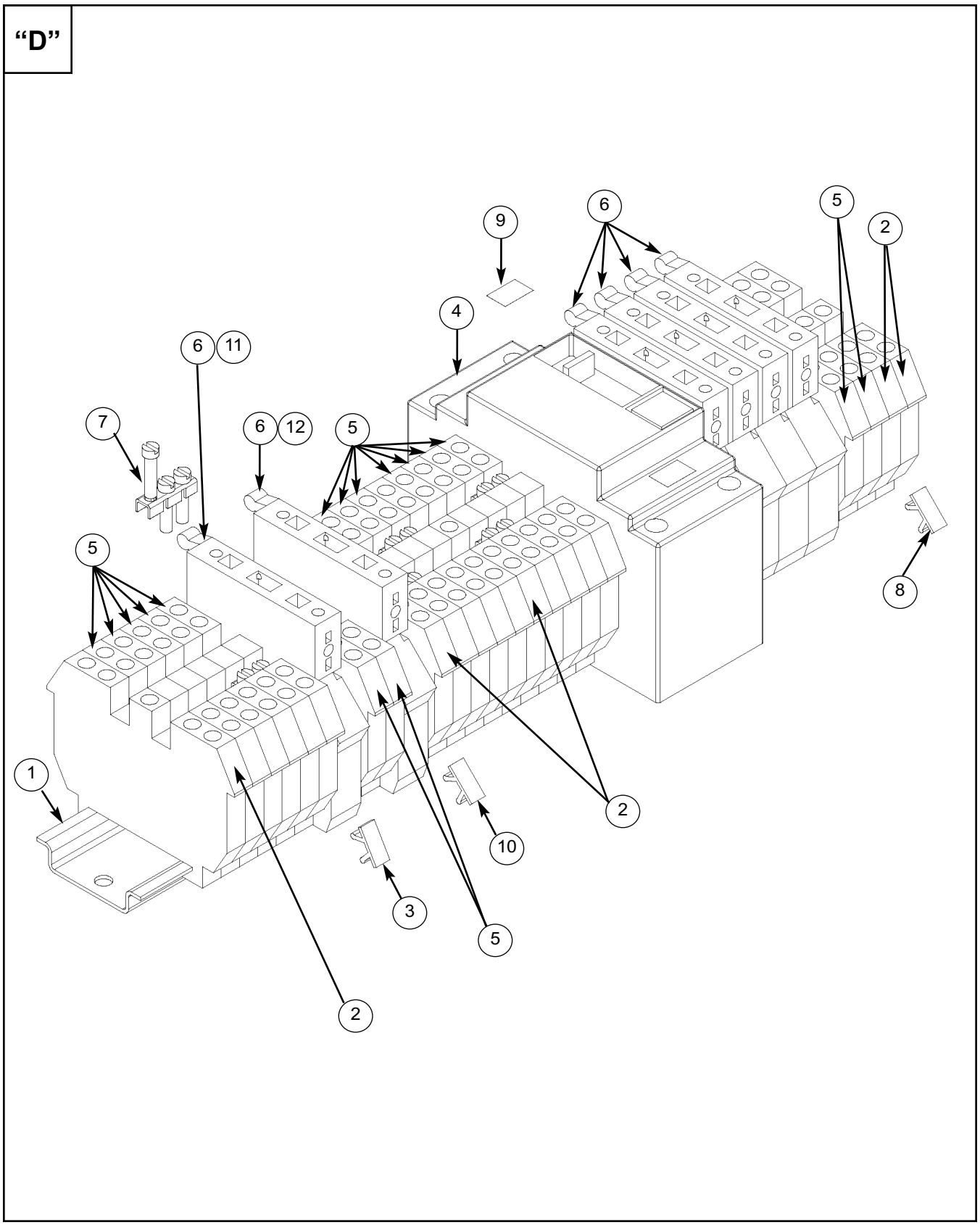
It is therefore best to replace the battery during preventive maintenance at an interval of approximately two years.

The supply must be switched off to replace the battery.

A Gold capacitor will supply the memory with power for a maximum of 3 hours. If this time is exceeded, data will be lost.

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“D”

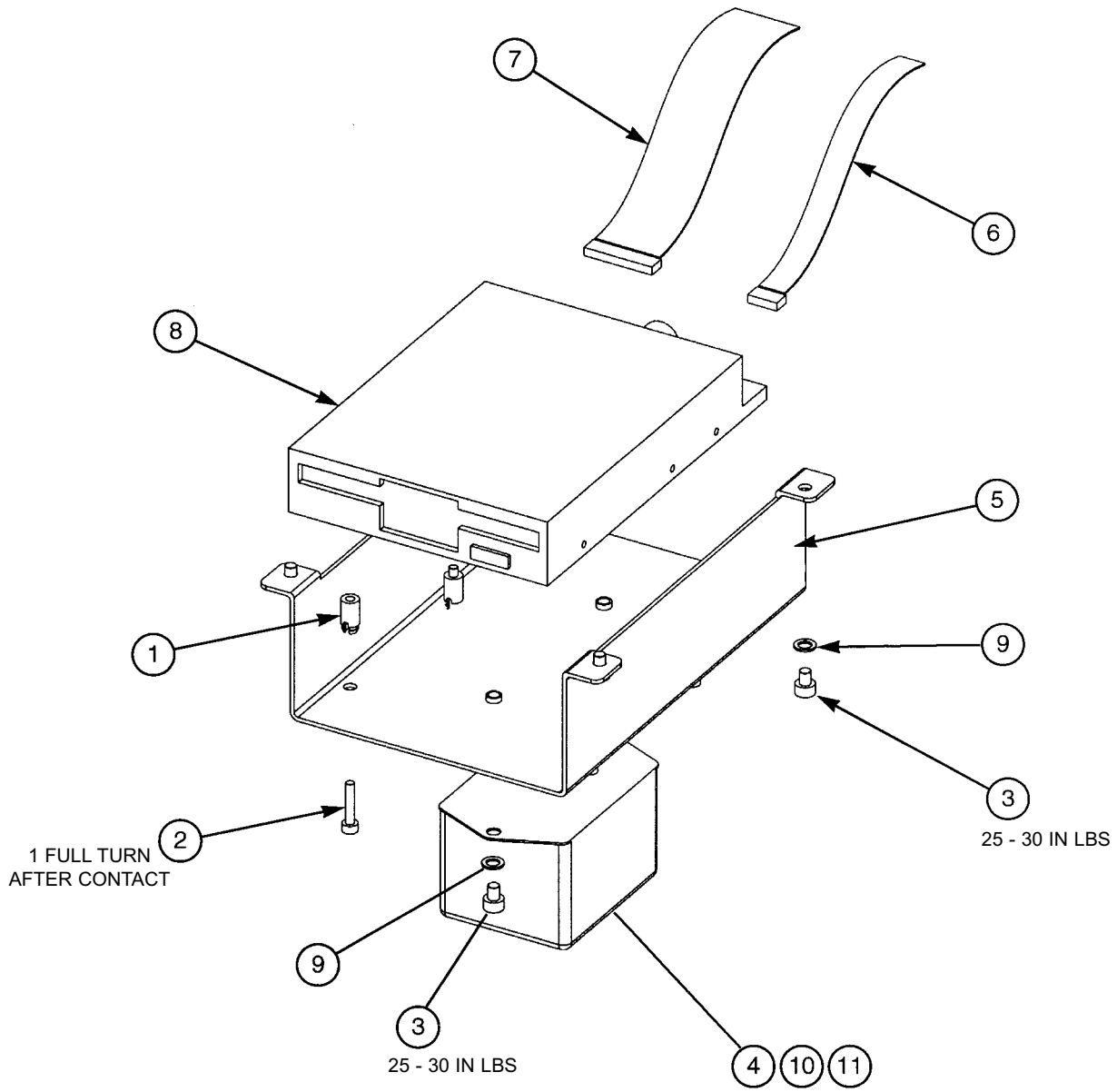


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Index	Part Number	Description	#
1	542645	DIN RAIL	1
2	542802	PE TERMINAL BLOCK	5
3	542806	QUICK STRIP MARKER	4
4	542804	GROUND FAULT CIRCUIT INTERRUPT	1
5	542803	TERMINAL BLOCK	17
6	542805	FUSE HOLDER	4
7	542807	FIXED BRIDGE BAR	2
8	542905	QUICK STRIP MARKER-FUSES	1
9	542906	GFCI LABEL	2
10	543279	QUICK STRIP MARKER	1
11	575125	FUSE, 250V 2A FAST BLOW	1
12	543267	FUSE, 250V 5A FAST BLOW	1

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“E”

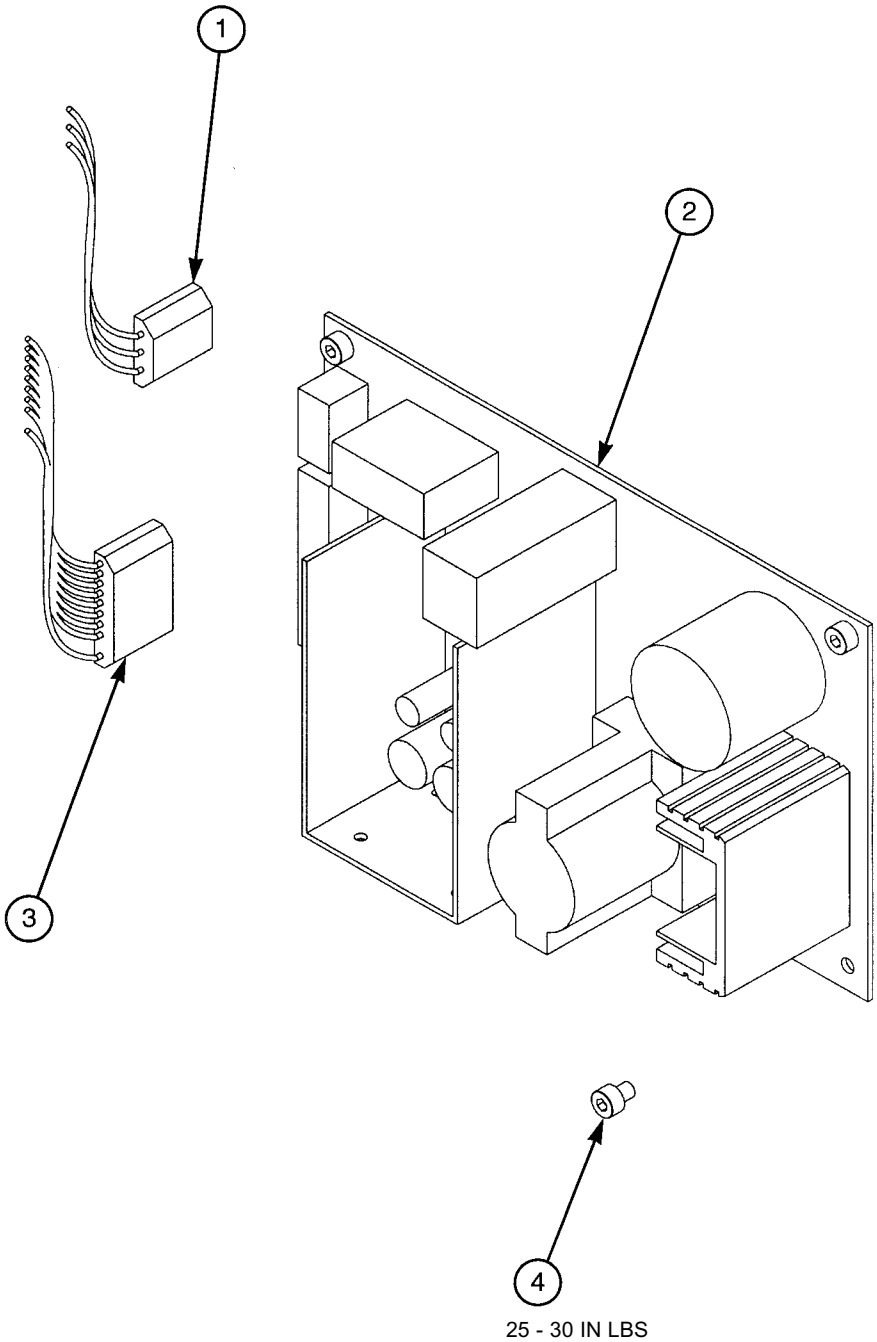


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Index	Part Number	Description	#
1	542943-1	FLOPPY DRIVE SPACER	4
2	542940-3	SCREW, M3 x .5 x 16MM SHCS ZINC	4
3	542940-4	SCREW, M4 x .7 x 6MM SHCS ZINC	6
4	542810	AC LINE FILTER	1
5	542643	FLOPPY DRIVE BRACKET	1
6	542651-14	FLOPPY DRIVE POWER CABLE	1
7	542947-5	FLOPPY DRIVE CABLE	1
8	572264	FLOPPY DRIVE	1
9	542942-2	STARWASHER, M4 ZINC	6
10	542944-4	14 AWG STAB CONNECTOR - MALE (NOT SHOWN)	3
11	542944-3	14 AWG STAB CONNECTOR - FEMALE (NOT SHOWN)	2
12	542944-1	45° QUICK-FIT TAB (NOT SHOWN)	1
13	542941-2	NUT, M3 X .5 BRASS (NOT SHOWN)	1
14	542942-1	STARWASHER, M3BRASS (NOT SHOWN)	2

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“F”

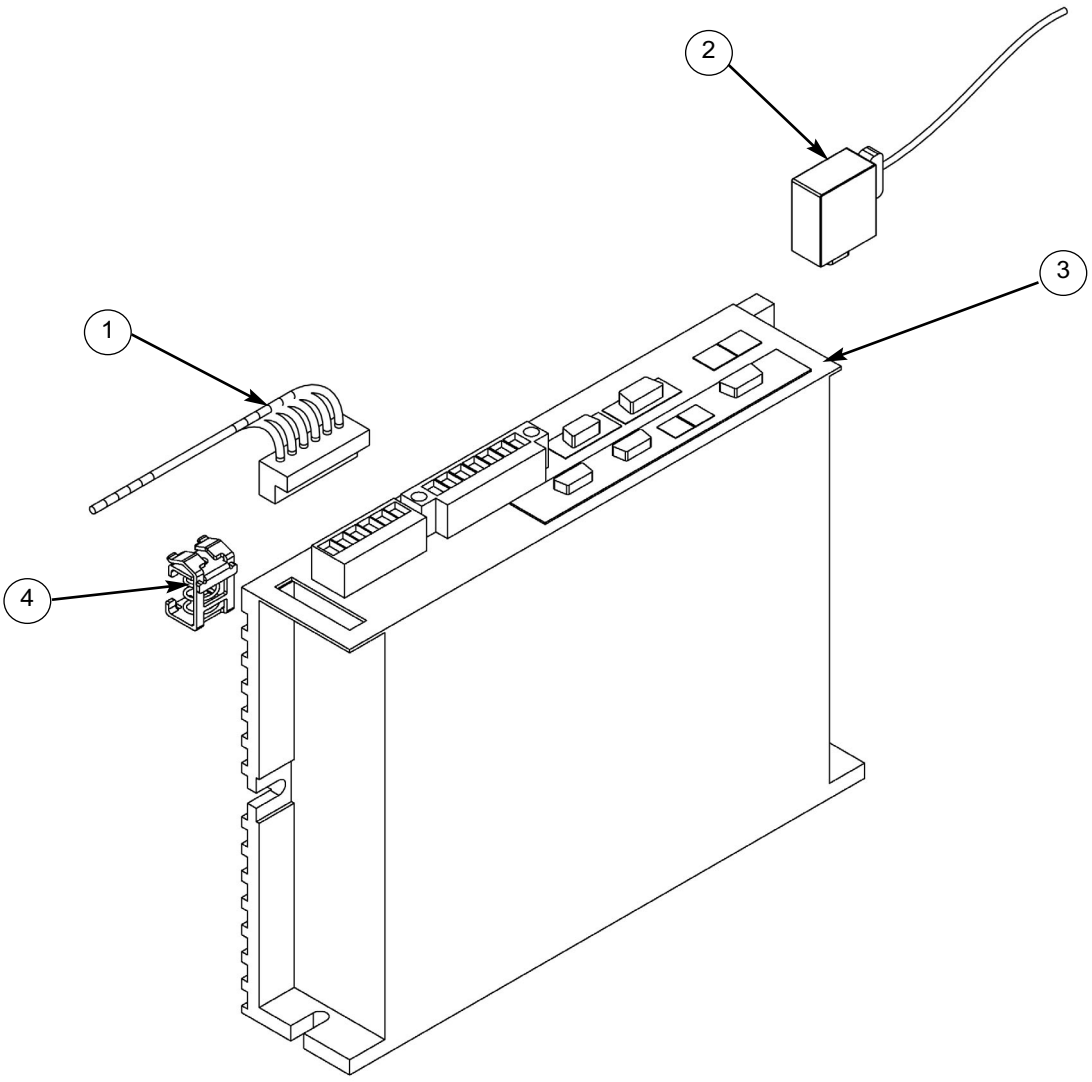


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Index	Part Number	Description	#
1	542651-9	P/S INPUT CABLE	1
2	542812	POWER SUPPLY	1
3	542651-8	P/S OUTPUT CABLE	1
4	542940-4	M4 x .7 x 6MM SHCS ZINC	4

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“G”

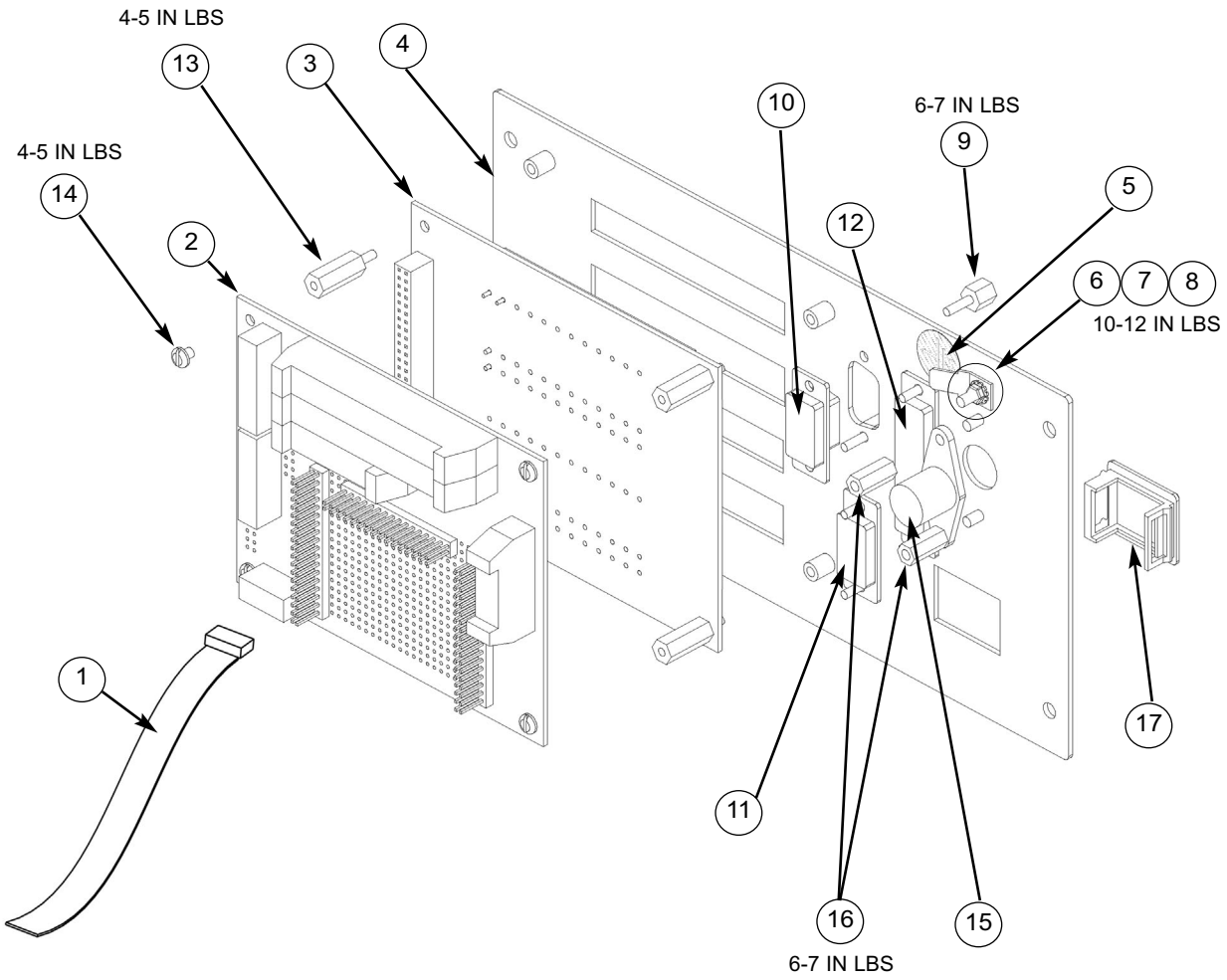


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Index	Part Number	Description	#
1	542651-11	STMH POWER CABLE	2
2	542651-16	ARCNET BOARD CABLE	2
3	542954	STMH MODULE (PROGRAMMED SERVO)	2
4	542897	SHIELD CLAMP	2

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“H”

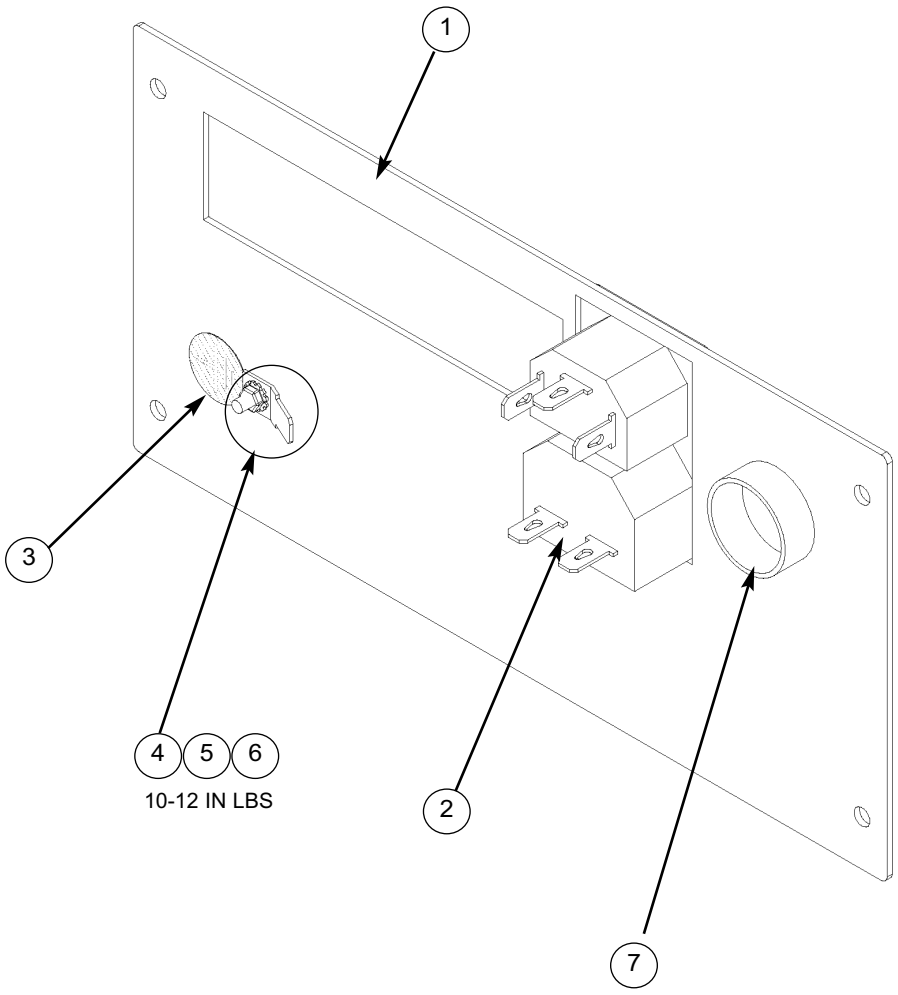


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Index	Part Number	Description	#
1	542651-12	CONNECTOR BOARD POWER CABLE	1
2	PCA 2002	I/O CONN BOARD - UPPER	1
3	PCA 2001-2	I/O CONN BOARD - LOWER	1
4	542641-2	I/O PANEL	1
5	541615	GROUND LABEL	1
6	542944-1	45° QUICK-FIT TAB	1
7	542941-2	NUT, M3 BRASS	1
8	542942-1	STARWASHER, M3 BRASS	2
9	542944-2	MOUNTING HARDWARE	3
10	542947-15	COMM 1 SERIAL CABLE	1
11	542947-81	COMM 2 SERIAL CABLE	1
12	542947-6	PRINTER PORT CABLE	1
13	542943-3	STANDOFF, #4-40 x 3/16HEX x 1/2 M/F ALUM	4
14	542940-1	SCREW, #4-40 x 1/8 PAN HD PHILLIPS ZINC	4
15	542947-18	KEYBOARD CABLE	1
16	542943-2	STANDOFF, #4-40 X 3-16 HEX X 1/2 M/F ALUM	2
17	542944-7	BLANK INSERT MODULE	1
18	542947-2	I/0 CONNECTOR BOARD - ARCNET BOARD CABLE (NOT SHOWN)	1
19	542947-4	I/0 CONNECTOER BOARD - I/0 BOARD CABLE (NOT SHOWN)	1

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"I"

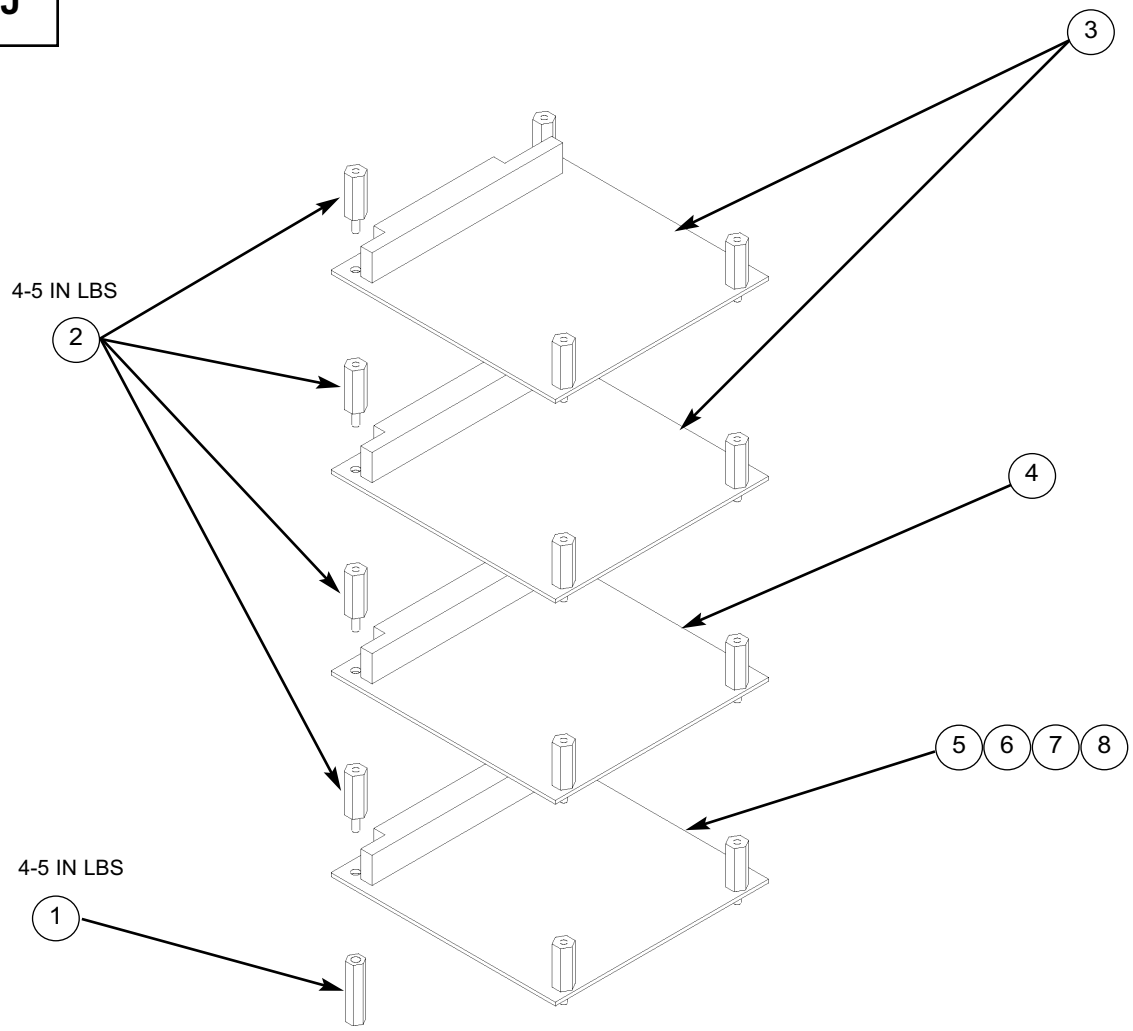


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Index	Part Number	Description	#
1	542642	POWER / FLOPPY PANEL	1
2	542811	POWER INPUT RECEPTACLE	1
3	541615	GROUND LABEL	1
4	542944-1	45° QUICK-FIT TAB	1
5	542941-2	NUT, M3 BRASS	1
6	542942-1	STARWASHER, M3 BRASS	2
7	542813	HOLE PLUG	1

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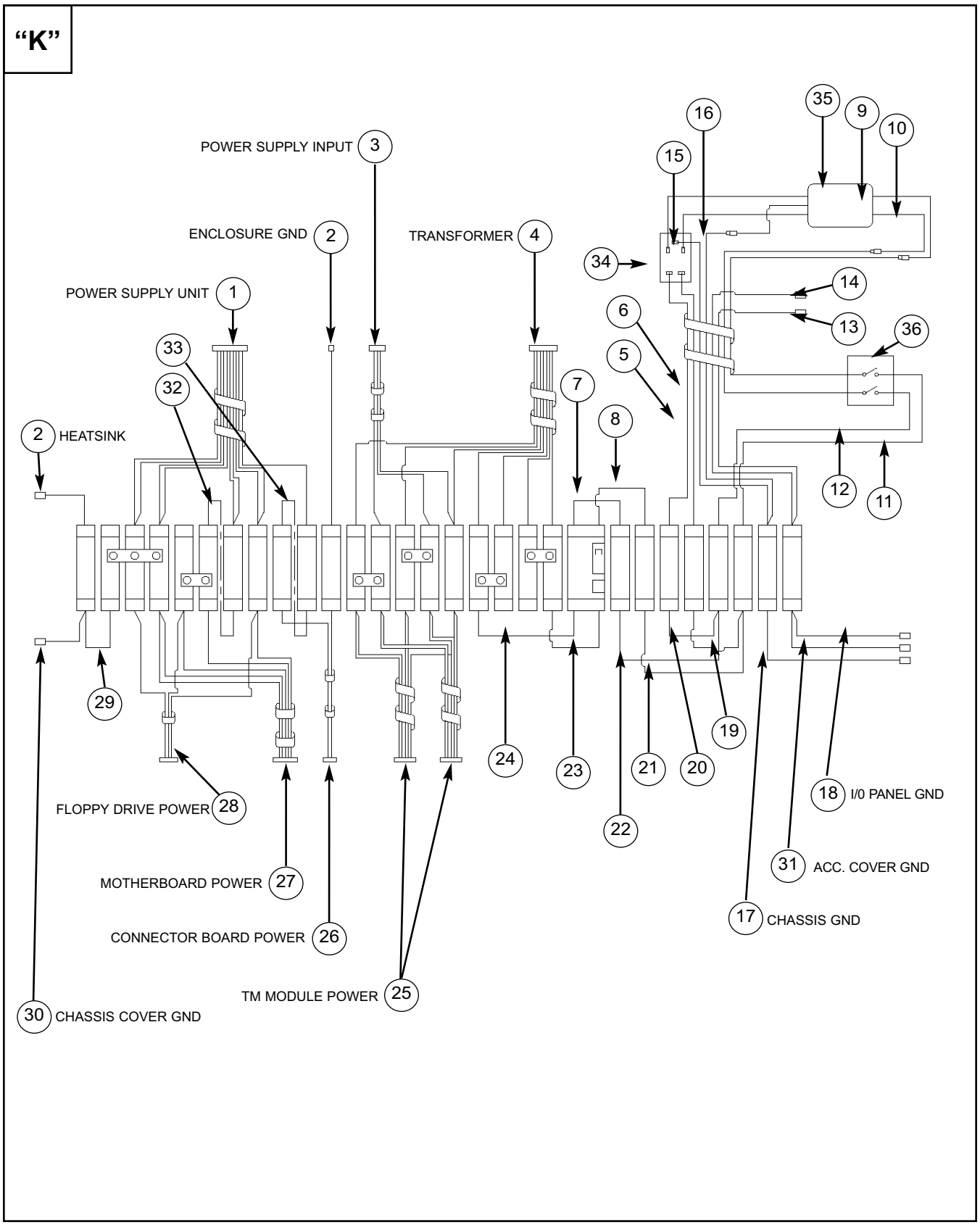
"J"



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Index	Part Number	Description	#
1	542943-6	STANDOFF, #4-40 x 3/16HEX x 7/8 FF ALUM	4
2	542943-5	STANDOFF, #4-40 x 3/16HEX x 5/8 M/F ALUM	16
3	575971	I/0 BOARD	2
4	PCA2003	ARCNET BOARD	1
5	543091	MOTHERBOARD	1
6	543092	16MB DRAM SIMM	1
7	543093	FLASH DISK	1
8	543094	LCD ADAPTER BOARD	1

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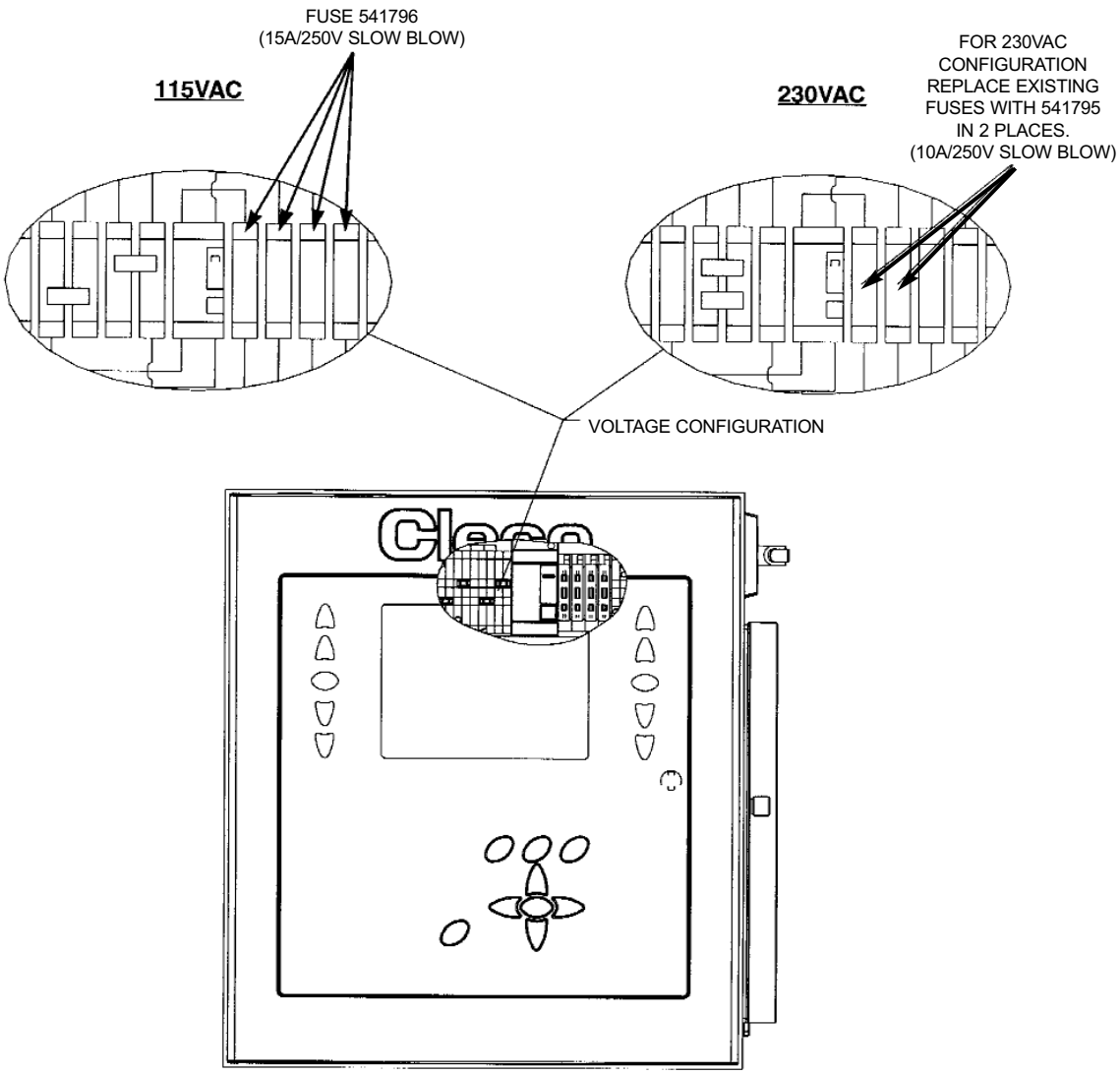


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Index	Part Number	Description	#
1	542651-8	POWER SUPPLY OUTPUT CABLE	1
2	542651-34	PE WIRE, ENCLOSURE	2
3	542651-9	POWER SUPPLY INPUT CABLE	1
4	542651-10	TRANSFORMER CABLE	1
5	542651-22	AC WIRE, F3 -- LINE OUT	1
6	542651-23	AC WIRE, F4 -- NEUTRAL OUT	1
7	542651-20	AC WIRE, F1 -- GFCI-1	1
8	542651-21	AC WIRE, F2 -- GFCI-N	1
9	542651-27	AC WIRE, SWITCH-3L2 -- FILTER LOAD-BLUE	1
10	542651-26	AC WIRE, SWITCH-1L1 -- FILTER LOAD-BROWN	1
11	542651-25	AC WIRE, AC-N -- SWITCH-4T2	1
12	542651-24	AC WIRE, AC-L -- SWITCH-2T1	1
13	542651-38	PE WIRE, POWER / FLOPPY PANEL	1
14	542651-37	PE WIRE, FLOPPY BRACKET	1
15	542651-36	PE WIRE, AC INPUT	1
16	542651-35	PE WIRE, FILTER	1
17	542651-39	PE WIRE, CHASSIS	1
18	542651-40	PE WIRE, I/O PANEL	1
19	542651-28	AC WIRE, AC-N -- F4	1
20	542651-30	AC WIRE, AC-L -- F3	1
21	542651-29	AC WIRE, AC-N -- F2	1
22	542651-31	AC WIRE, AC-L -- F1	1
23	542651-32	AC WIRE, GFCI-N -- P2-0V	1
24	542651-33	AC WIRE, GFCI-2 -- P1+	1
25	542651-11	TM MODULE POWER CABLE	2
26	542651-12	CONNECTORBOARD POWER CABLE	1
27	542947-13	MOTHERBOARD POWER CABLE	1
28	542651-14	FLOPPY DRIVE POWER CABLE	1
29	542651-42	PE WIRE, DC GND -- PE	1
30	542651-41	PE WIRE, CHASSIS COVER	1
31	542651-45	PE WIRE, ACCESSORY COVER	1
32	542651-49	DC WIRE, F7- +5V	1
33	542651-46	DC WIRE, JUMPER F6 FUSE	1
34	542811	POWER INPUT PLUG	1
35	542810	LINE FILTER	1
36	542808	POWER SWITCH	1

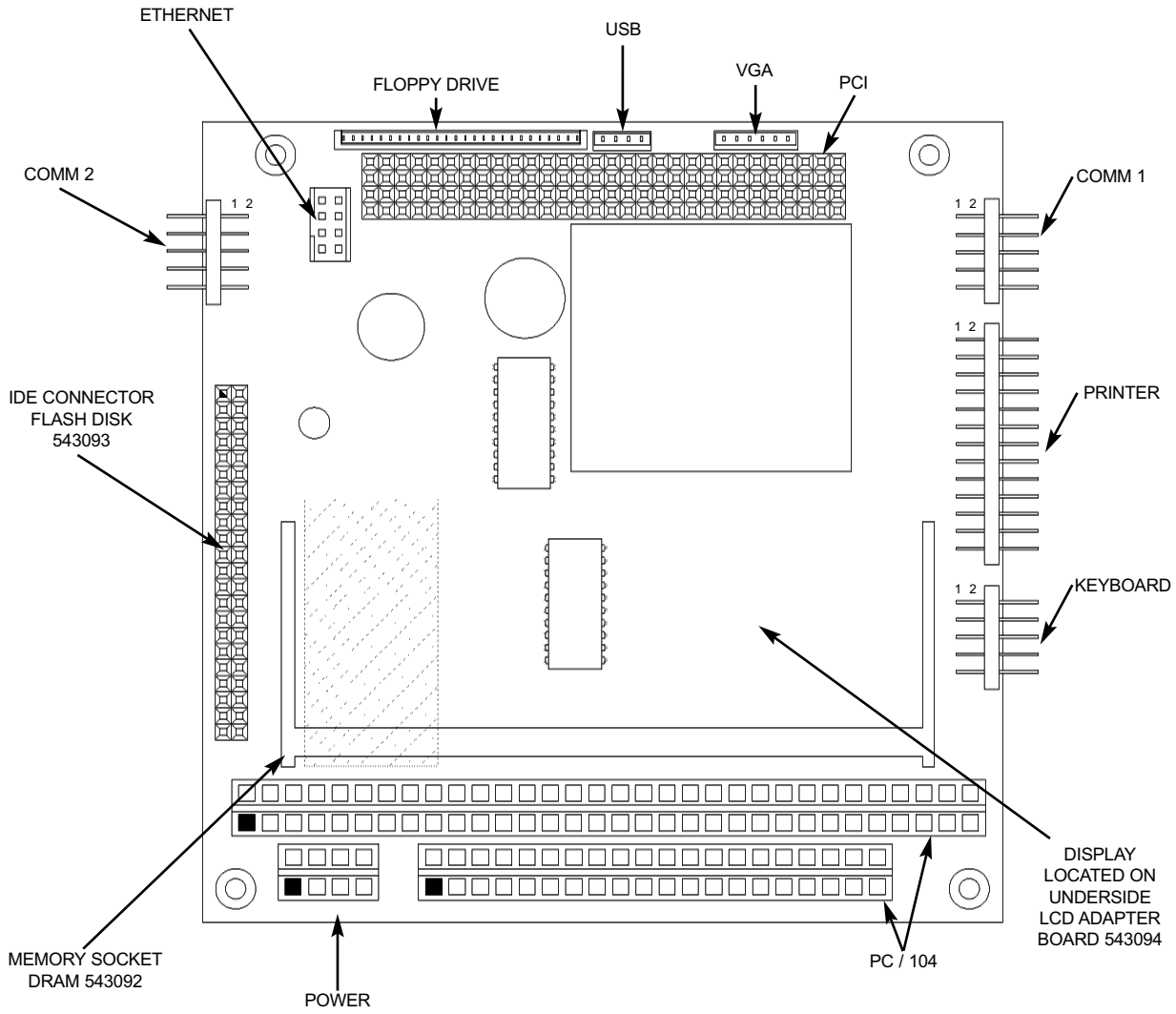
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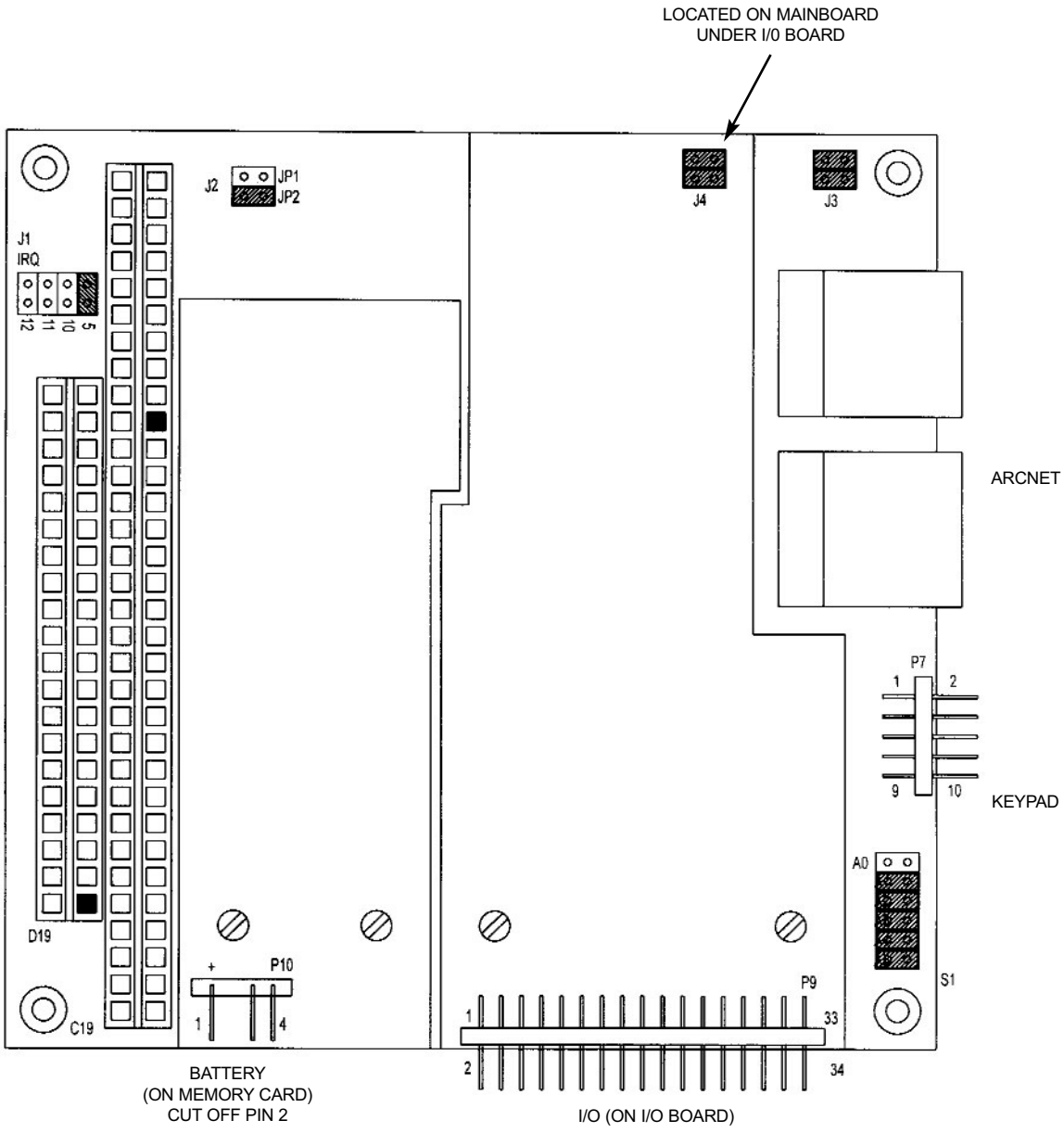
"M"



543091 - Motherboard

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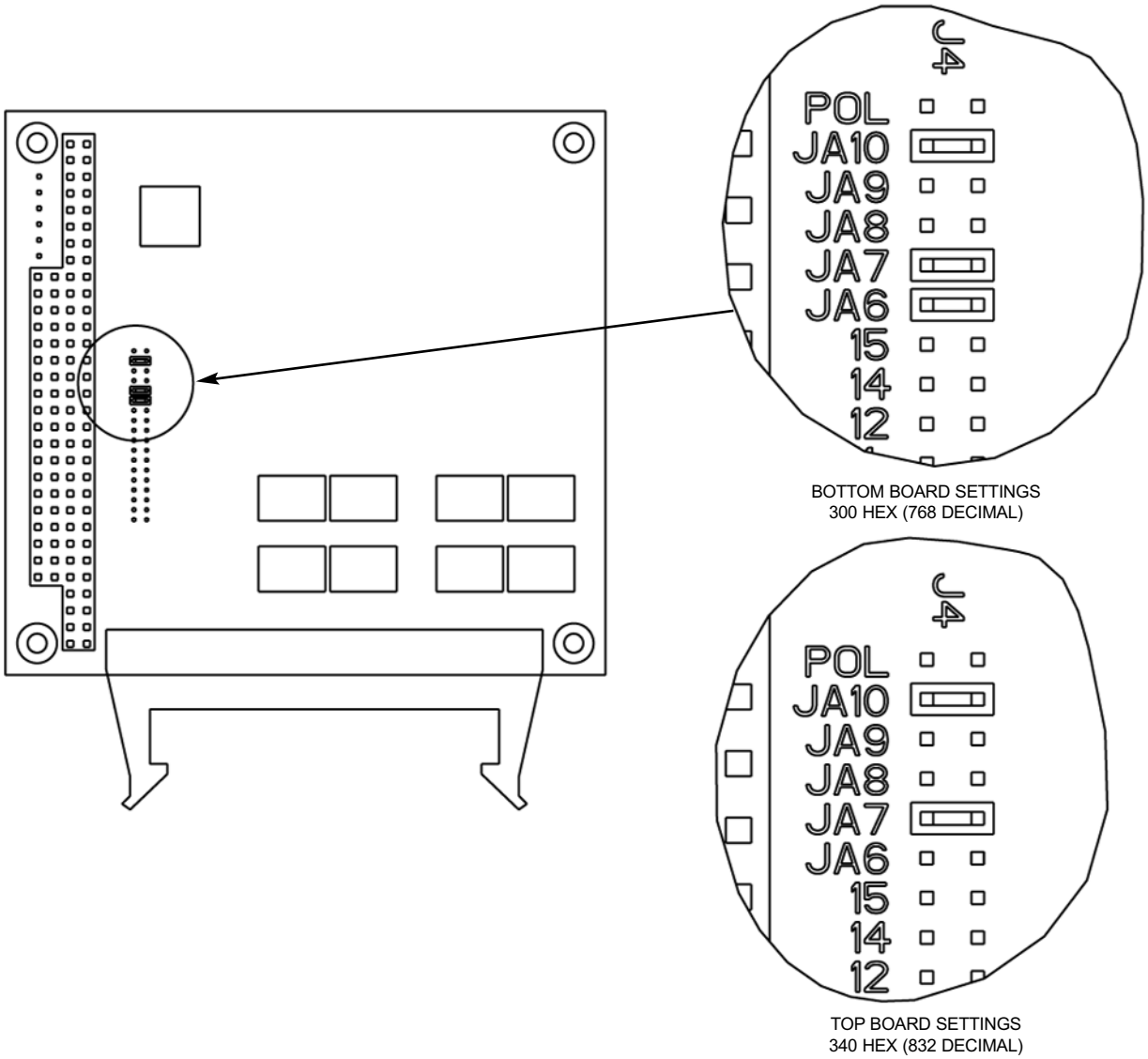
"N"



PCA 2003 - Arcnet Board
(Jumper Settings)

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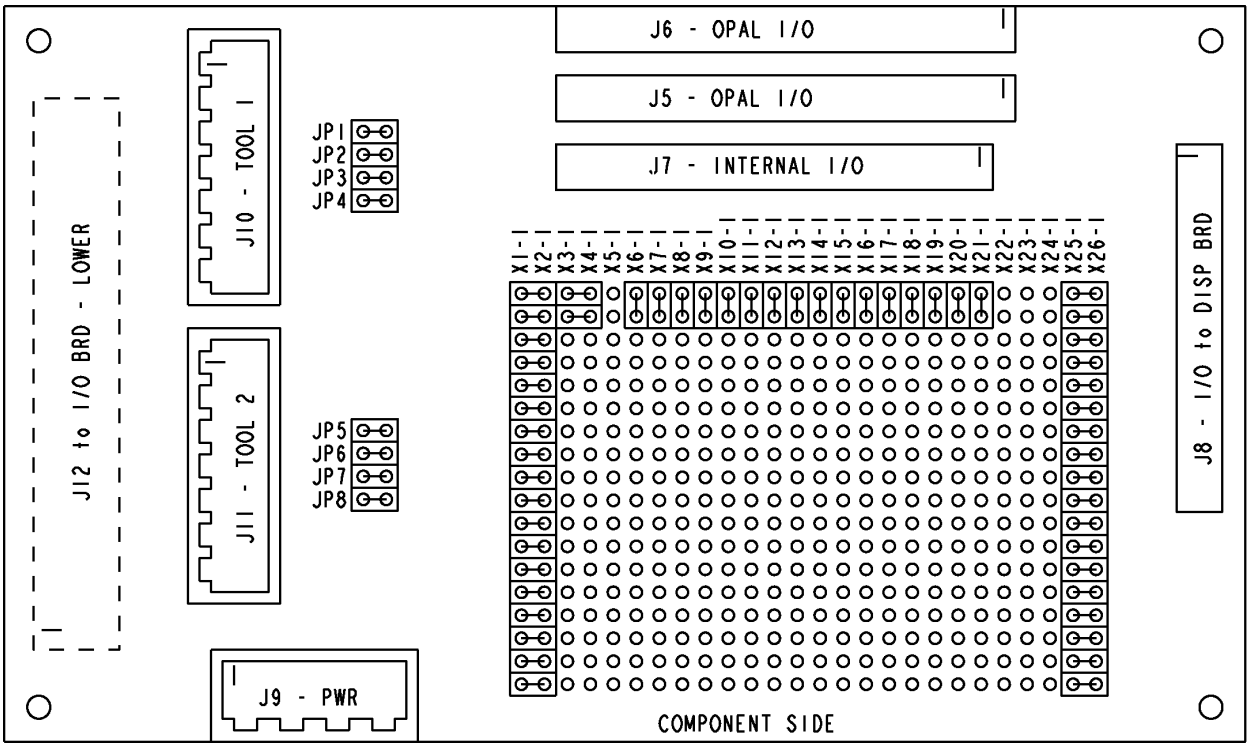
"O"



575971 I/O BOARD
(JUMPER SETTINGS)

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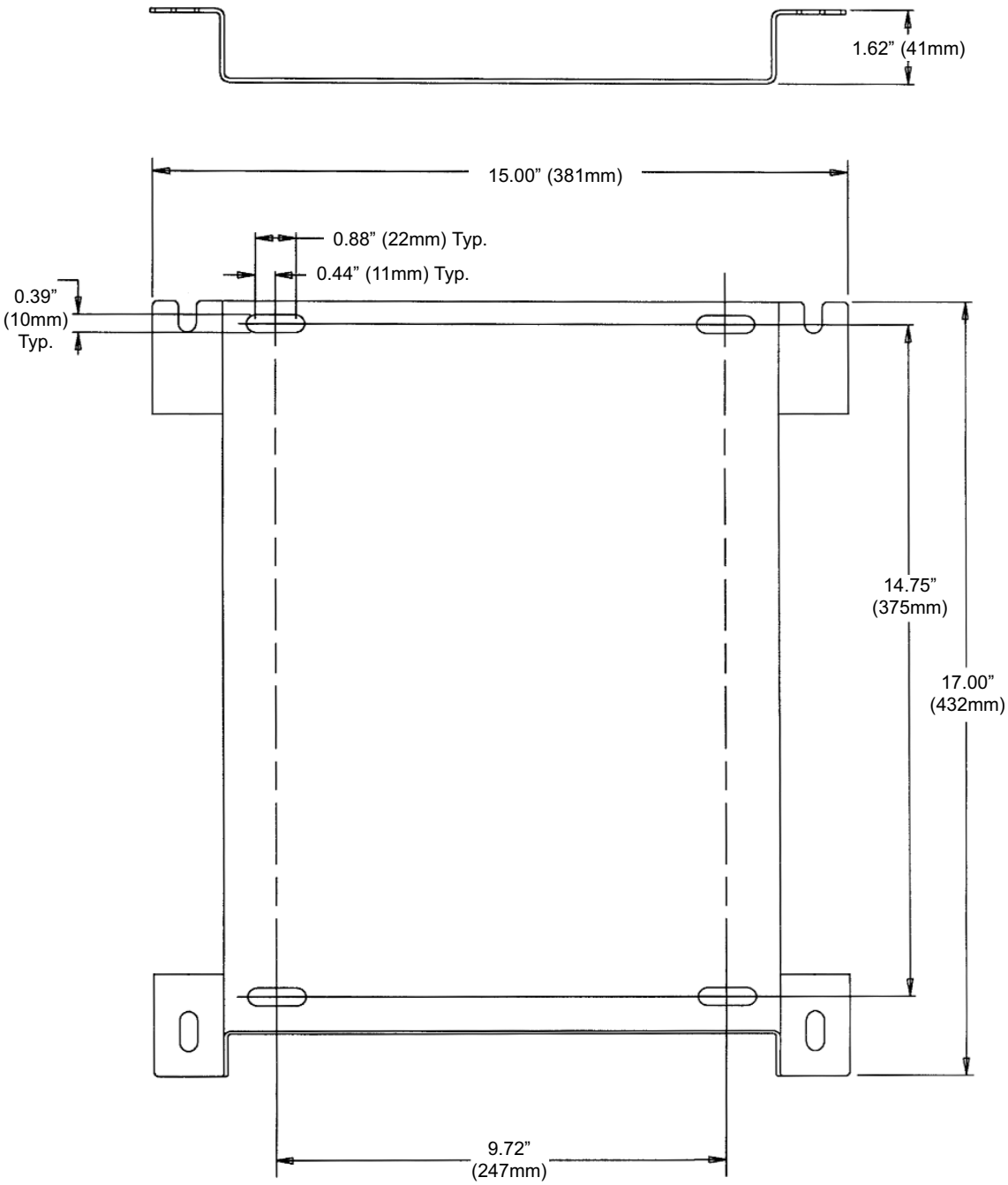
"P"



PCA 2002 UPPER I/O CONNECTOR BOARD
(JUMPER SETTINGS)

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"Q"

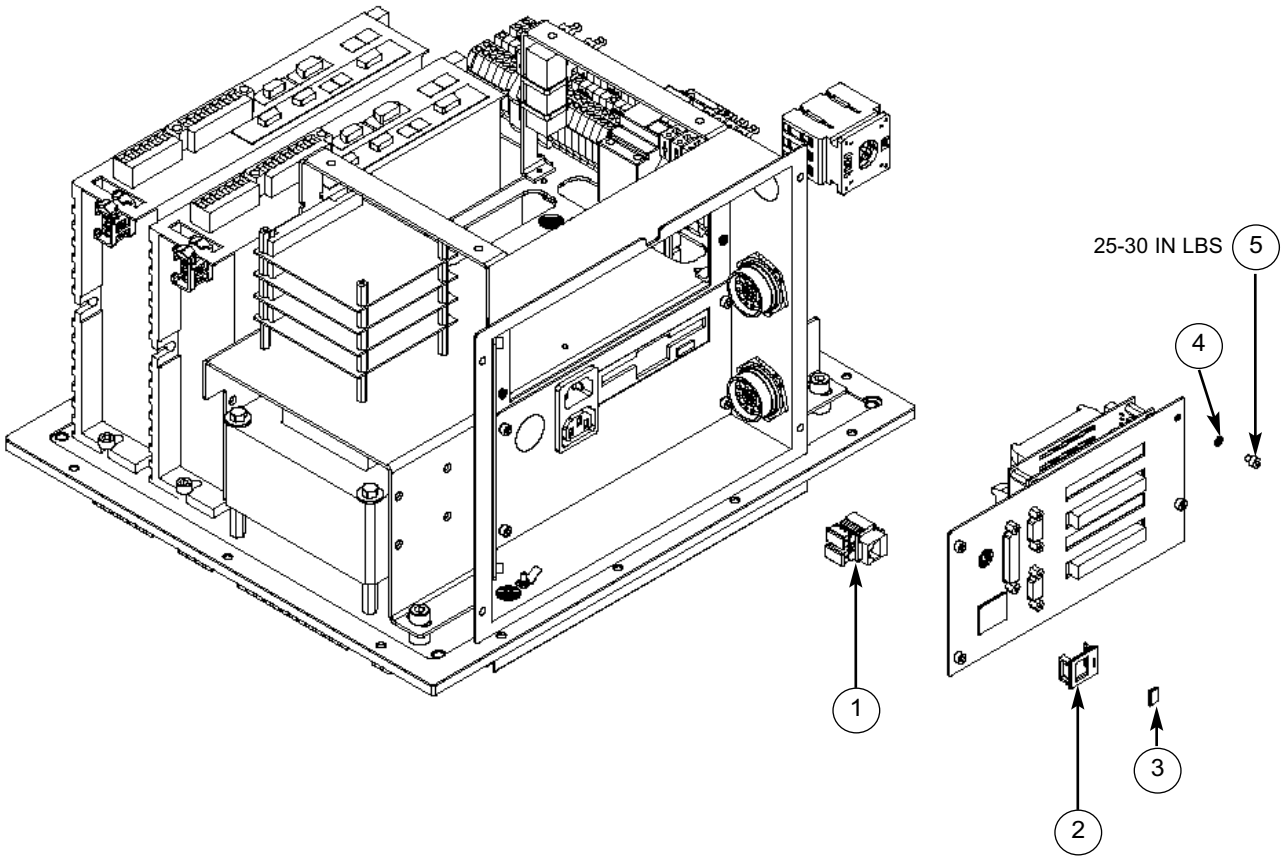


MOUNTING HOLE LAYOUT

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"R"

OPTIONS : ETHERNET COMMUNICATION



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Index	Part Number	Description	#
1	542947-75	ETHERNET CABLE	1
2	542944-8	BEZEL	1
3	542944-9	ICON	1
4	542942-2	STARWASHER, M4 ZINC	4
5	542940-4	SCREW, M4 X0.7 X 6MM SHCS ZINC	4

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COOPER Power Tools

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