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03539814

Form P7101
Edition 1

REPAIR PART LISTING
for
MODELS TMAD1 AND TMAD2 ANGLE WRENCH CONTROLLER CABINETS
for
DC ELECTRIC TORQUE MANAGEMENT SYSTEMS

NOTICE

SAVE THESE INSTRUCTIONS. DO NOT DESTROY.

⚠ WARNING

READ ALL INSTRUCTIONS BEFORE OPERATING THIS UNIT.

Electrical repairs should be attempted only by authorized trained repair person. Consult your service center listing for your nearest Ingersoll-Rand authorized service center.

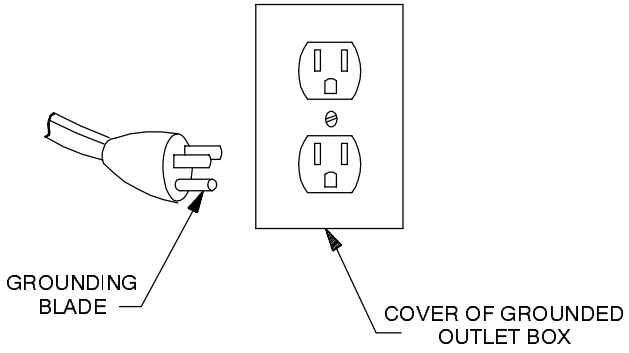
For safe operation, the following procedure must be followed:

1. **Keep work area clean.**
   Cluttered areas and benches invite injuries.
2. **Consider work area environment.**
   Don't expose the Controller to water.
   Keep the work area well lighted.
3. **Guard against electric shock.**
   Prevent body contact with grounded surfaces, such as pipes, metal structures or other electrical products.
4. **Keep bystanders away.**
   Do not permit unauthorized personnel to operate this Controller.
5. **Store idle tools.**
   When not in use, the Controller should be stored in a dry and secured area.
6. **Don't abuse the cord.**
   Never carry a Controller by its cord or yank the cord of the Controller to disconnect it from a receptacle.
   Keep the cord away from heat, oil, solvent and sharp edges.
7. **Maintain Controller with care.**
   Inspect Controller cord periodically and if damaged, have it repaired by an authorized service facility.

⚠ WARNING

GROUNDING INSTRUCTIONS

The Controller should be grounded while in use to protect the operator from electric shock. The Controller is equipped with a three-conductor cord and three-prong grounding-type plug to fit the proper grounding-type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. Your unit is to be used on a 115 VAC, 60Hz, three prong outlet as shown. **DO NOT** use the unit with a two prong plug outlet and an adapter. Always check that your ground is operating properly on the outlet by a qualified electrician before using the unit.



(Dwg. TPD1501)

⚠ WARNING

Use only three-wire extension cords that have three-prong grounding-type plugs and three-pole receptacles that accept the Controller's plug. Replace or repair damaged cords.

The use of other than genuine Ingersoll-Rand replacement parts may result in decreased tool performance and increased maintenance, and may invalidate all warranties.

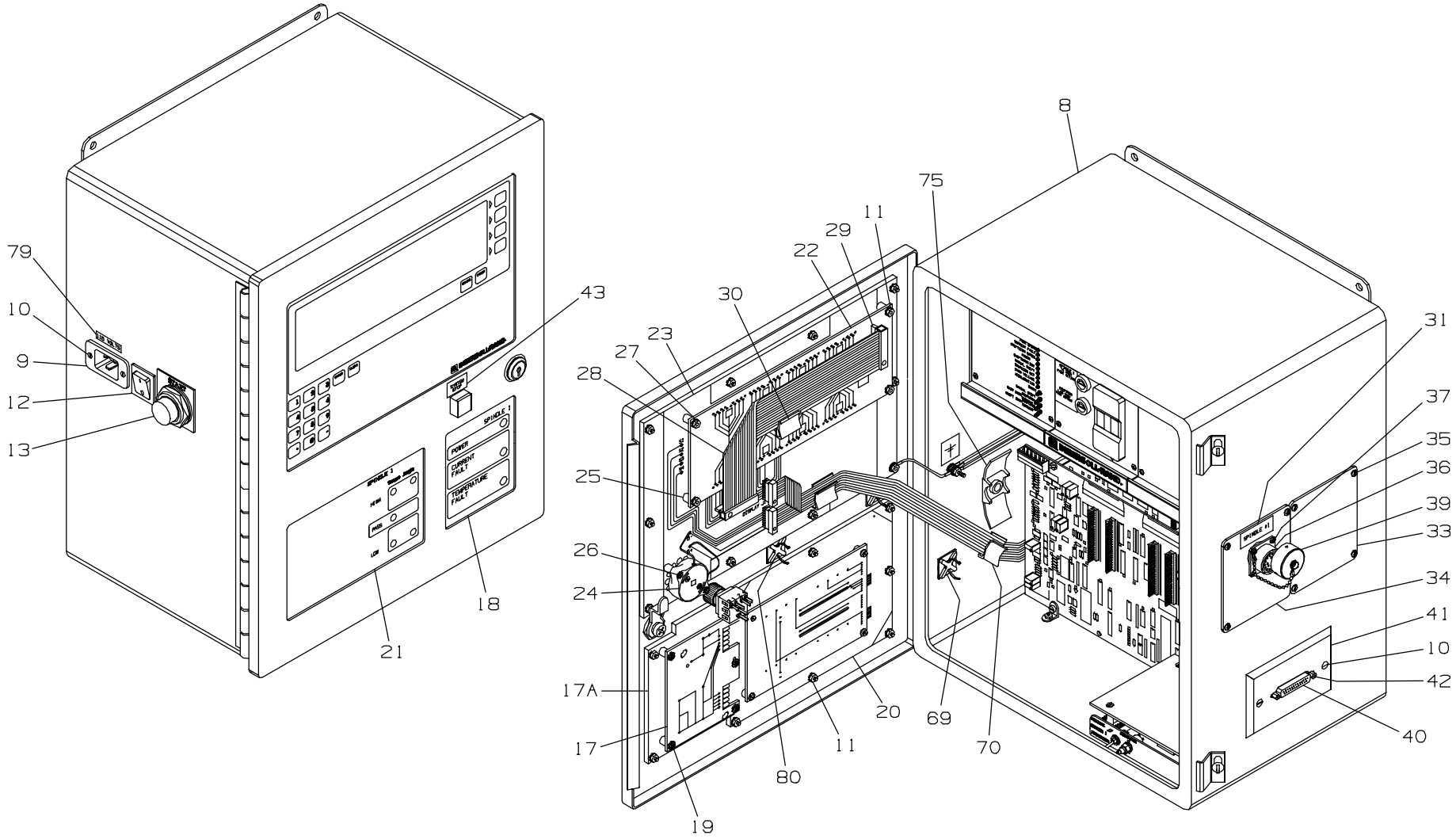
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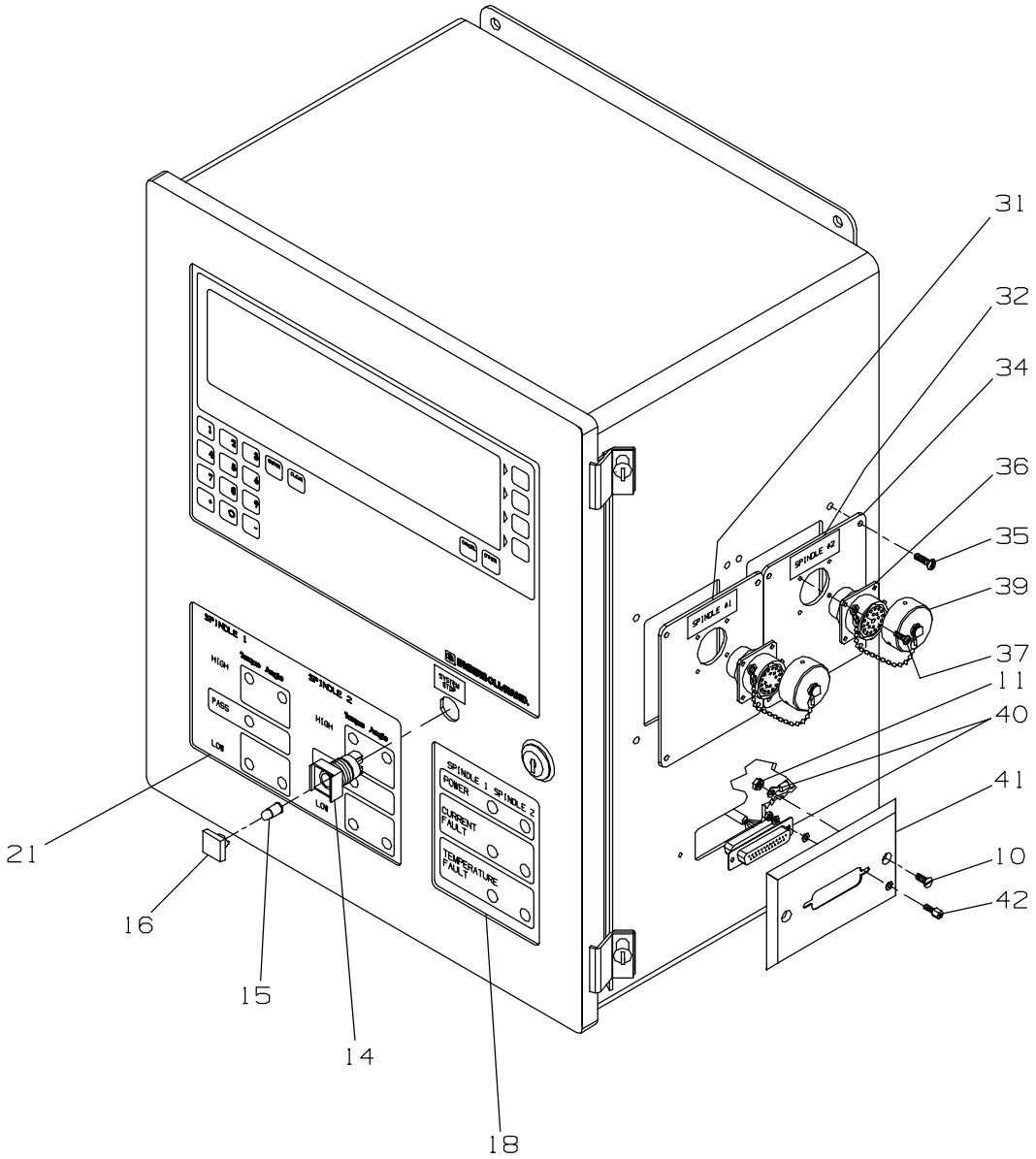
TMAD1-001 SINGLE WRENCH CABINET ASSEMBLY

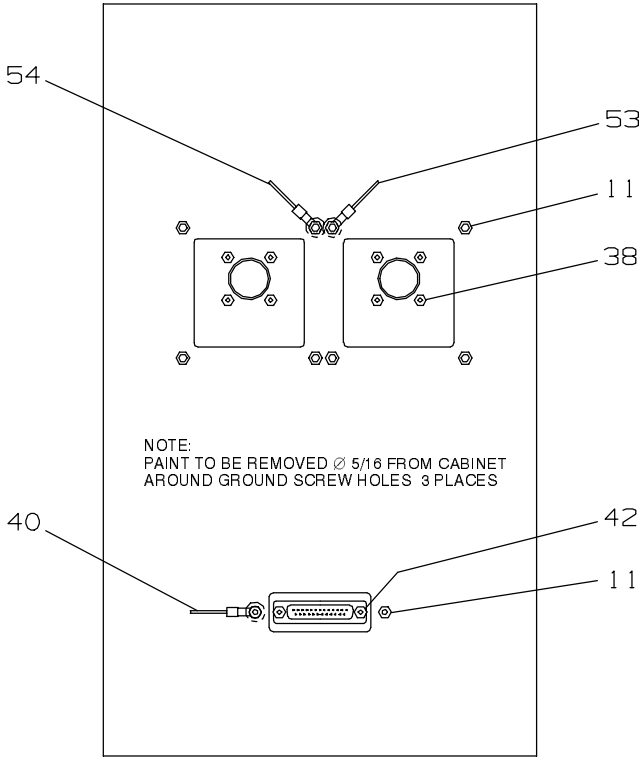


(Dwg. TPA1377)

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TMAD2-001 EXTERNAL VIEW, TWO WRENCH CABINET ASSEMBLY





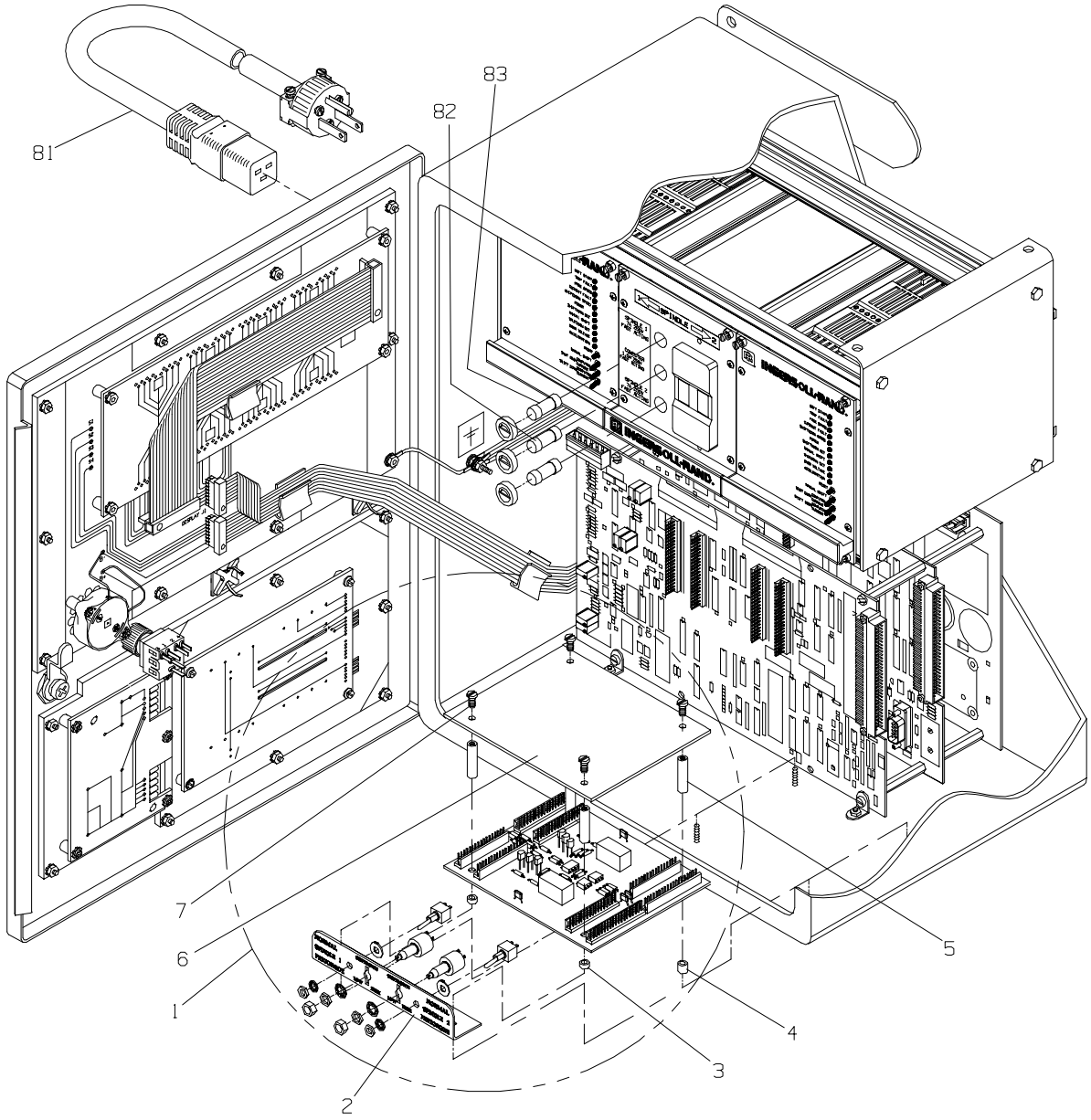
BACK VIEW OF SIDE PANEL

GROUND CONNECTIONS

(Dwg. TPA1378)

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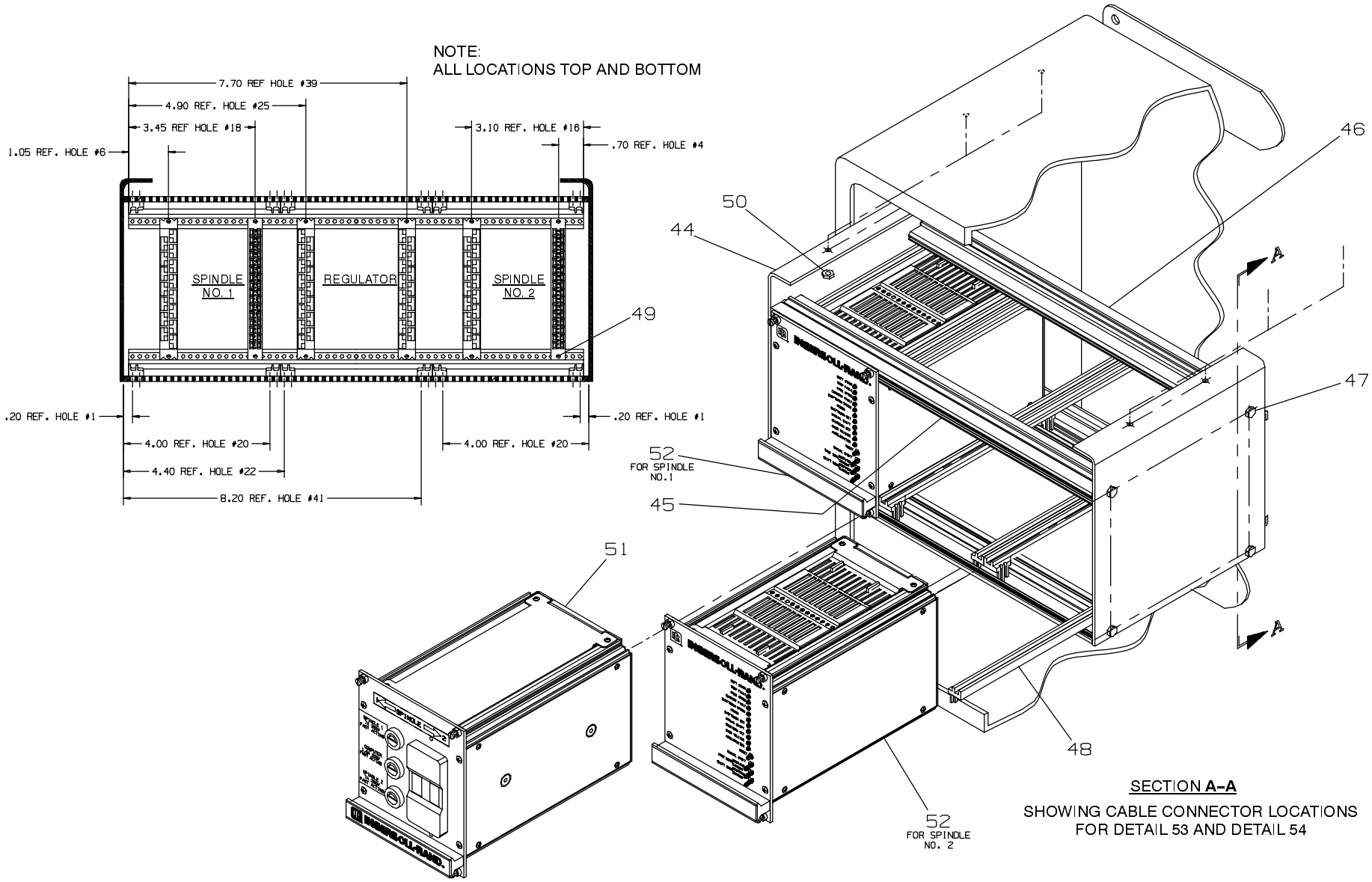
TMAD1 AND TMAD2 INTERFACE MODULE



(Dwg. TPA1383)

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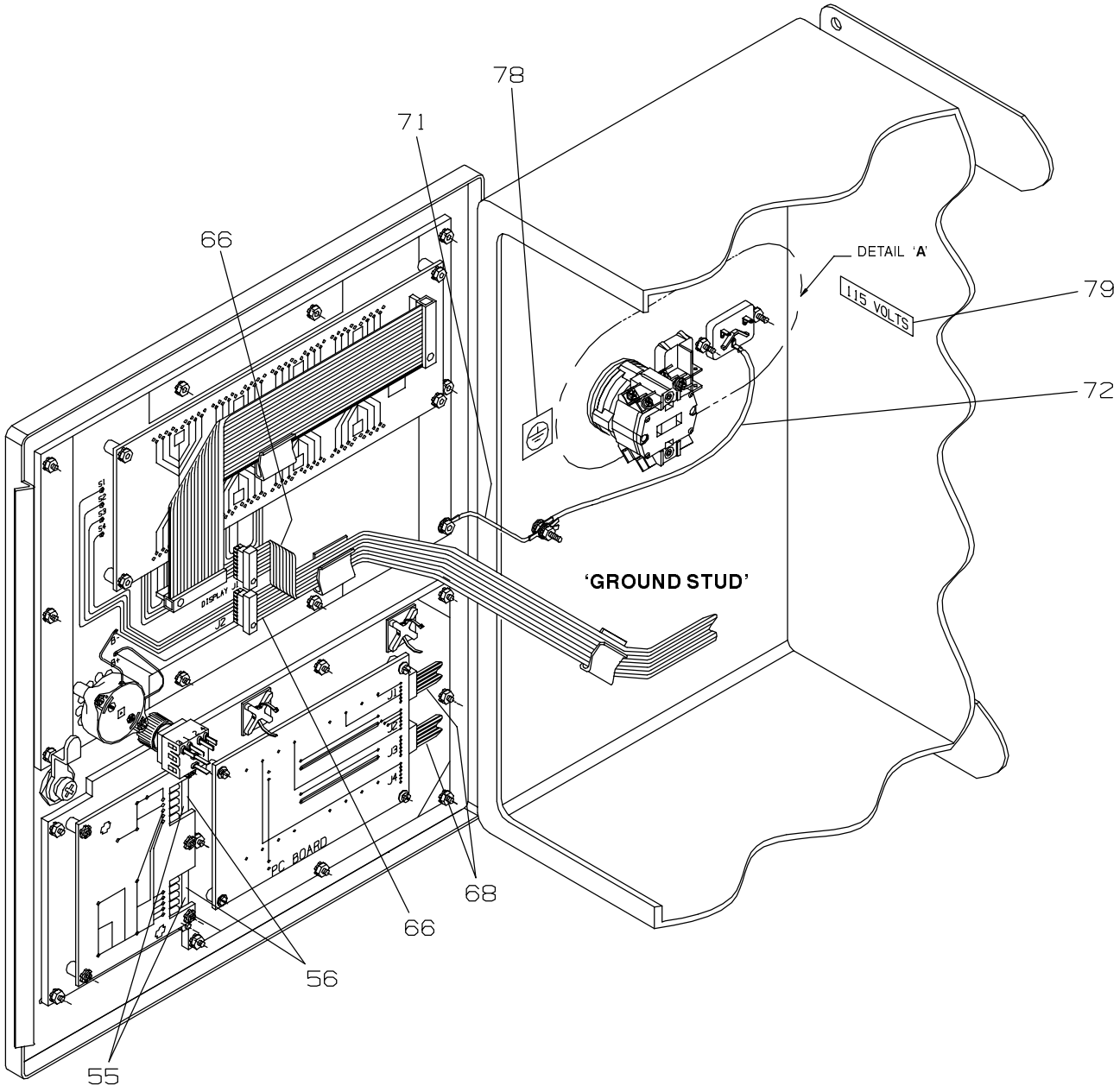
CONTROLLER RACK FOR TMAD1-001 AND TMAD2-001 CABINET ASSEMBLIES

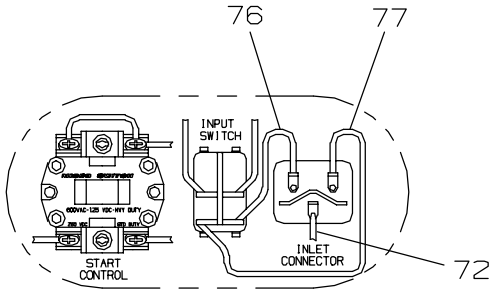


(Dwg. TPA1379)

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TMAD1 AND TMAD2 CABINET WIRING



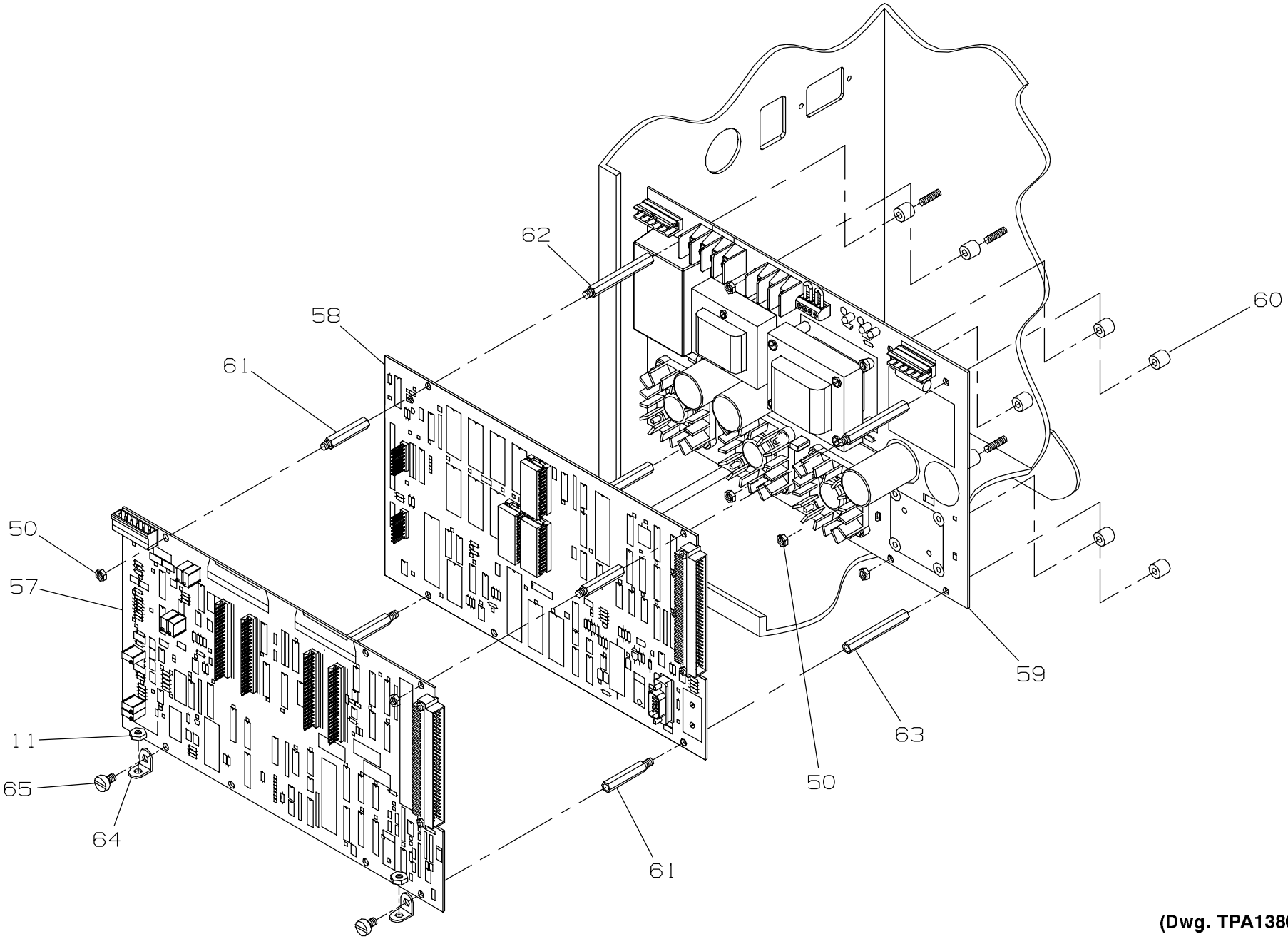


DETAIL 'A'

(Dwg. TPA1381)

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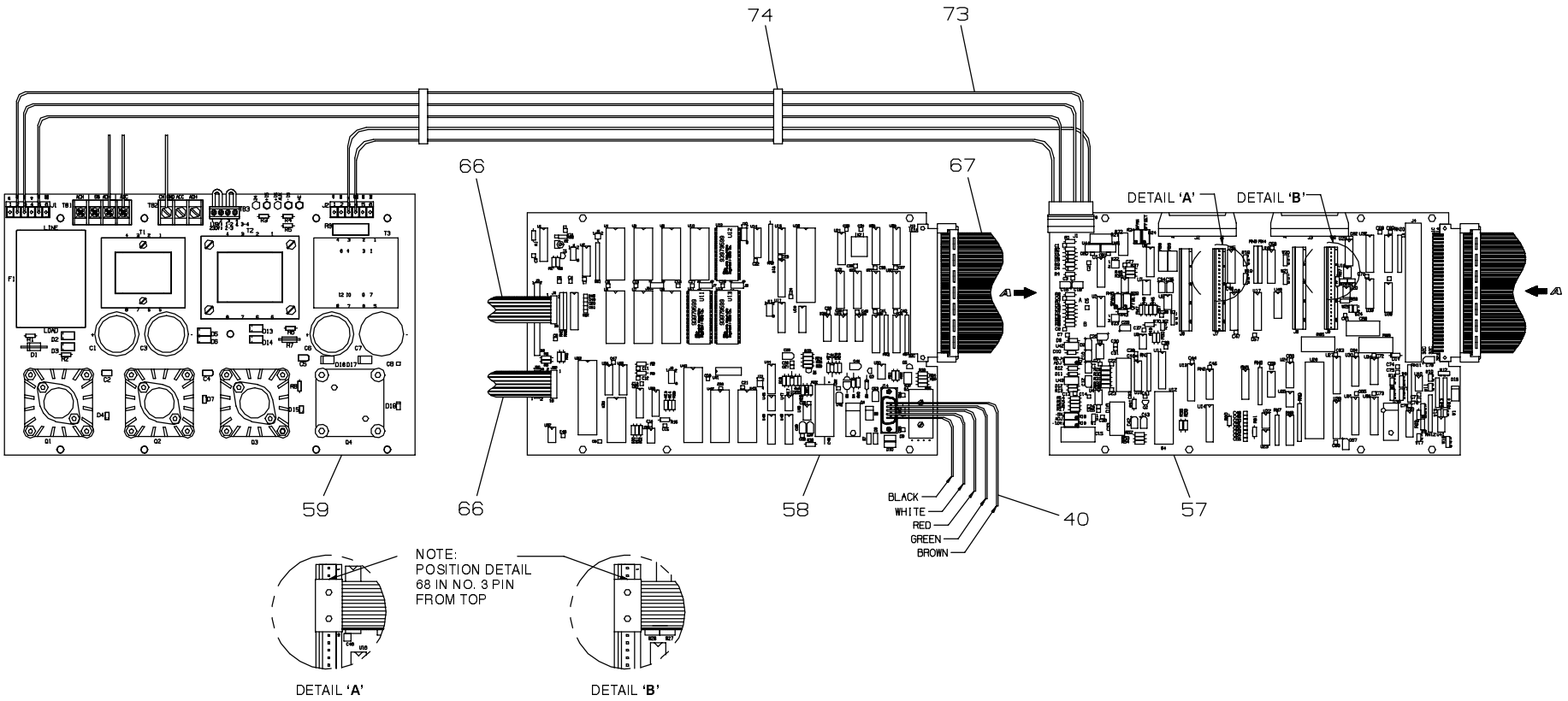
TMAD1 AND TMAD2 CIRCUIT BOARD ASSEMBLIES



(Dwg. TPA1380)

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TMAD1 AND TMAD2 CIRCUIT BOARD WIRING



(Dwg. TPA1382)

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	PART NUMBER FOR ORDERING	
	Cabinet (complete)	
	for one wrench hook–up	TMAD1–001
	for two wrench hook–up	TMAD2–001
1	Interface Board Module	
	for TMAD1–001	DEA40–M950–1
	for TMAD2–001	DEA40–M950–2
2	Interface Board Bracket	---
3	Spacer (1/8" long) (2)	---
4	Spacer (1/4" long) (2)	---
5	Spacer (1" long) (4)	---
6	Board Cover	---
7	Cover Screw (#6–32 thread x 1/2" long) (4)	---
8	Cabinet Assembly	
	for TMAD1–001	DEA40–A850–1
	for TMAD2–001	DEA40–A850–2
9	Inlet Connector	DEA40–861
10	Screw (#6–32 thread x 1/2" long slotted) (4)	---
11	Keps Nut (#6–32 thread) (36)	---
12	Input Switch	DEA40–862
13	Start Control	DEA40–865
14	Switch–system Stop	DEA40–867
15	Bulb–system Stop	DEA40–969
16	Lens–system Stop	DEA40–868
17	Light Board Assembly	
	for TMAD1–001	DEA40–A866–1
	for TMAD2–001	DEA40–A866–2
17A	Light Panel Assembly	DEA40–855
18	Light Panel Label	---
19	Sems Screw (#6–32 thread x 1/4" long) (5)	---

	PART NUMBER FOR ORDERING	
20	Control Panel Assembly	
	for TMAD1–001	DEA40–A906–1
	for TMAD2–001	DEA40–A906–2
21	Control Panel Label	---
	LCD Display Assembly	DEA40–A905
22	LCD Display	---
23	LCD Board	---
24	Sounder	---
25	Spacer (1/4") (4)	---
26	Sems Screw (#4–40 thread x 3/8" long) (2)	---
27	Keps Nut (#4–40 thread) (4)	---
28	Cable Assembly (15 pin)	---
29	Cable Connector (15 pin)	---
30	Cable Mount	---
31	Spindle #1 Label	DEA40–873
32	Spindle #2 Label (for TMAD2–001)	DEA40–874
33	Receptacle Cover Blank (for TMAD1–001)	DEA40–859
34	Receptacle Cover (1 for TMAD1–001; 2 for TMAD2–001)	DEA40–860
35	Cover Mounting Screw (#6–32 thread x 1/2" long slotted) (8)	---
36	Tool Receptacle (1 for TMAD1–001; 2 for TMAD2–001)	DEA40–967
37	Receptacle Mounting Screw (#4–40 thread x 3/8" long Pan Head) (4 for TMAD1–001; 8 for TMAD2–001)	---
38	Mounting Screw Keps Nut (#4–40 thread) (4 for TMAD1–001; 8 for TMAD2–001)	---
39	Tool Receptacle Cover (1 for TMAD1–001; 2 for TMAD2–001)	DEA40–872

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		PART NUMBER FOR ORDERING			PART NUMBER FOR ORDERING
40	CPU Cable	DEA40–907	61	Male/Female Standoff	
41	CPU Cable Receptacle Cover	DEA40–917		(#8–32 thread x 1–1/4" long) (4)	DEA40–910
42	Screwlock (complete) (2)	DEA40–919	62	Male/Female Standoff	
43	System Stop Label	DEA40–870		(#8–32 thread x 2" long) (2)	DEA40–911
	Regulator Rack	DEA40–968	63	Female/Female Standoff	
44	Bracket (2)	---		(#8–32 thread x 2" long) (2)	DEA40–924
45	Front Horizontal Rail (2)	---	64	Mounting Bracket (2)	DEA40–918
46	Rear Horizontal Rail (2)	---	65	Sems Screw (#8–32 thread x 3/8"	
47	Bracket Screw (M5 x 12 Hex			long) (2)	---
	Head Screw) (8)	---	66	Cable (16 wire) (2)	DEA40–914
48	Rack Guide Rail (8 for TMAD1–001;		67	Cable (64 wire)	DEA40–915
	12 for TMAD2–001)	DEA40–851	68	Cable (7 wire) (1 for TMAD1–001;	
49	Guide Rail Screw (M2.5 x 6 Pan Head)			2 for TMAD2–001)	DEA40–935
	(6 for TMAD1–001; 12 for TMAD2–001)	---	69	Cable Mount (Tie Type) (2)	DEA40–937
50	Keps Nut (#8–32 thread) (13)	---	70	Cable Mount (Flat Type) (2)	DEA40–938
51	Regulator		71	Ground Strap	DEA40–939
	for TMAD1–001	DEA40–A750–1	72	Ground Lead	DEA40–940
	for TMAD2–001	DEA40–A750–2	73	Power Distribution Cable	DEA40–944
52	Controller (1 for TMAD1–001;		74	Cable tie (2)	---
	2 for TMAD2–001)	DEA40–700	75	Clincher Adjustable Clamp (4)	DEA40–949
53	#1 Spindle Cable	DEA40–966–1	76	Jumper Wire (inlet connector to	
54	#2 Spindle Cable (for TMAD2–001 only)	DEA40–966–2		input switch) (black)	DEA40–962
55	Connector (1 for TMAD1–001;		77	Jumper Wire (inlet connector to	
	2 for TMAD2–001)	DEA40–970–5		input switch) (white)	DEA40–963
56	Dust Cover (1 for TMAD1–001;		78	Ground Label	DEA40–871
	2 for TMAD2–001)	DEA40–946–5	79	Voltage Marker Label (2)	DEA40–875
57	Input/Output Board Assembly		80	Cable Tie (4)	---
	for TMAD1–001	DEA40–A902	81	Input Cord Assembly	DEA40–A864
	for TMAD2–001	DEA40–A903	82	Fuse (1.5 amp; 250 volt; fast–acting)	---
58	CPU Board Assembly	DEA40–A900	83	Fuse (7 amp; 250 volt; fast–acting) (2)	---
59	Power Supply Board Assembly	DEA40–A901	*	Interface Cable (10 wire) (2)	DEA40–947
60	Spacer (3/8" long) (9)	DEA40–909	*	Interface Cable (16 wire) (2)	DEA40–948

* Not illustrated.

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NOTES

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