REPLACEMENT POWER SUPPLY KIT

for RPM3

PN 402117

INSTALLATION INSTRUCTIONS

FLUKE ®

Calibration

REPLACEMENT POWER SUPPLY KIT, P/N 402117, INCLUDES:

QTY	PART NO	DESCRIPTION
1	103501	Artesyn® Power Supply, +5V, +12V
1	402299	PROM, 68302 BIOS Mini-Micro
5	100739-Z	Washer, Flat, M3
2	100969-Z	Washer, External Tooth, M3
6	102464-Z	Washer, Split Lock, M3
2	100984-Z	Screw, PHP, M3 x 6
2	101010-Z	Screw, SHC, M3 x 8
1	101005-Z	Screw, SHC, M3 x 10
2	101006-Z	Screw, SHC, M3 x 12
4	101041-Z	Tie, Cable, 3.9"
2	103513	Spacer, Round, 6 MM x 6
2	103514	Spacer, Round, 6 MM x 3
1	124013	Bracket, Power Supply, RPM3
1	402116	Cable Assembly, AC/DC, RPM3

This is a replacement power supply kit for RPM3. It includes the replacement power supply and a replacement BIOS Prom that must be installed for proper operation.

Some RPM3 products may contain a power supply manufactured by Ault. A bracket, mounting hardware, and replacement AC/DC power cable are provided for conversion to the replacement power supply manufactured by Artesyn®. After the enclosure cover has been removed the installer must identify the power supply (see Figures 1 and 2) and proceed to the appropriate section for removal and installation.
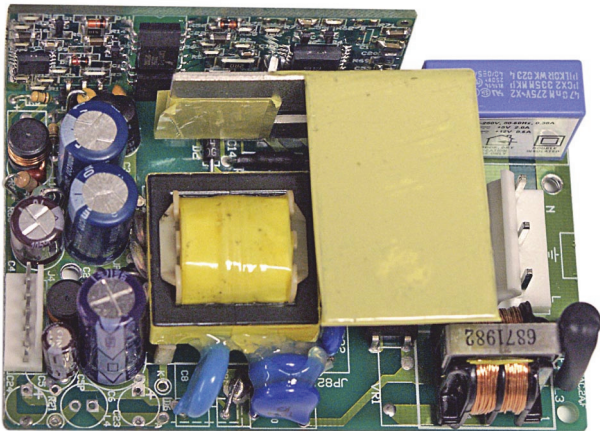

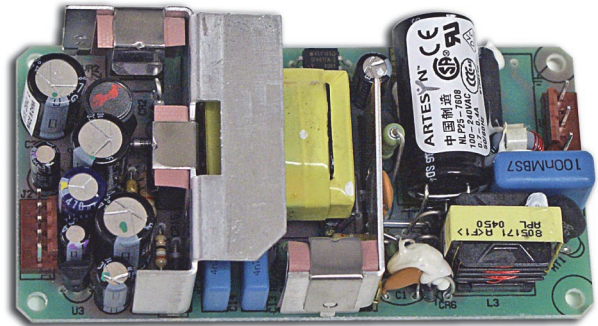**Figure 1.** Top View - Ault Power Supply

Figure 2. Top View - Artesyn® Power Supply

REMOVE AND REPLACE ARTESYN® POWER SUPPLY AND BIOS:

❶ Disconnect power cord.

❷ Remove enclosure cover from unit (disconnect fan cable prior to completely removing cover).

❸ Detach AC cable and DC cable from power supply.

❹ The power supply is mounted in four (4) places with a stainless steel screw, flat washer, lock washer and aluminum spacer. Remove the screws, flat washers and lock washers and remove the power supply board from the chassis.

❺ Remove and discard the EPROM BIOS IC.
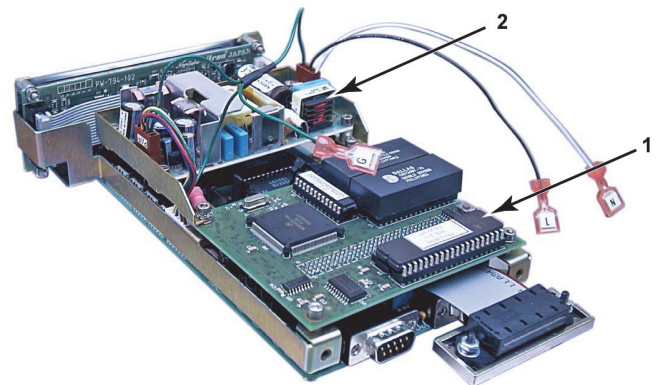
❻ Installation is the reverse of removal.

Figure 3. Bios Prom and Power Supply Location

1. BIOS IC   2. Power Supply

⚠ **NOTE: Installer must be properly grounded when handling BIOS IC.**

REMOVE AULT POWER SUPPLY, AND INSTALL ARTESYN® POWER SUPPLY AND BIOS:

❶ Disconnect power cord.

❷ Remove enclosure cover from unit (disconnect fan cable prior to completely removing cover).

❸ Remove chassis from enclosure base (lift straight out).

❹ Remove and discard the stainless steel screw and lock washer that secures the AC/DC cable ground lug to the Mini Micro board.

❺ Remove the cable ties that secure the AC/DC cable (PN 402060). Detach the AC/DC cable from the power supply, main board and AC receptacle. Discard the AC/DC cable Assembly.

❻ The power supply is mounted in three (3) places with a stainless steel screw, a nylon screw, nylon washers and a locking plastic standoff (see Figures 4 and 5).
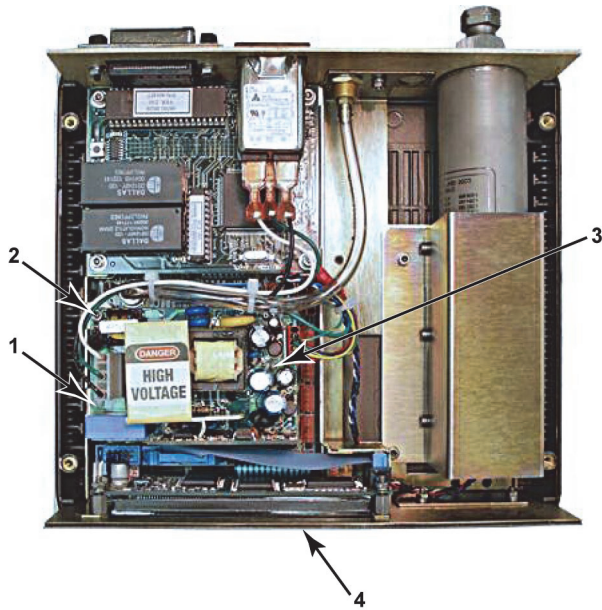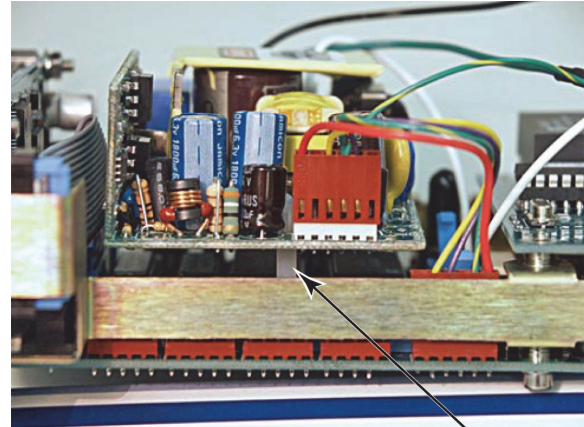

Figure 4. RPM3 Top View

1. Nylon Screw	3. Plastic Standoff
2. Stainless Steel Screw	4. Front of Unit

ⓐ Remove the stainless steel screw and lock washer, and discard.

ⓑ Remove and discard the nylon screw.

ⓒ Turn the chassis on its side to access the bottom of the main PCB.

ⓓ Locate the tabs of the plastic standoff and squeeze them together to release the standoff from the main board. The power supply can now be removed and discarded.

📓 It is not necessary to remove the plastic standoff from the old power supply

ⓔ Remove and discard the nylon washers located between the metal mounting tabs and the power supply.

PLASTIC STANDOFF

Figure 5. Right Side View

❼ Attach the new mounting bracket to side rail 2 places using the M3 x 6 pan head screw and M3 lock washer. (See figure 7)

❽ Fasten the new mounting bracket and the AC/DC Cable Assembly grounding lug to the Mini-Micro board using the M3 x 10 screw, M3 flat washer, and two M3 external tooth lock washers (see Figure 7).

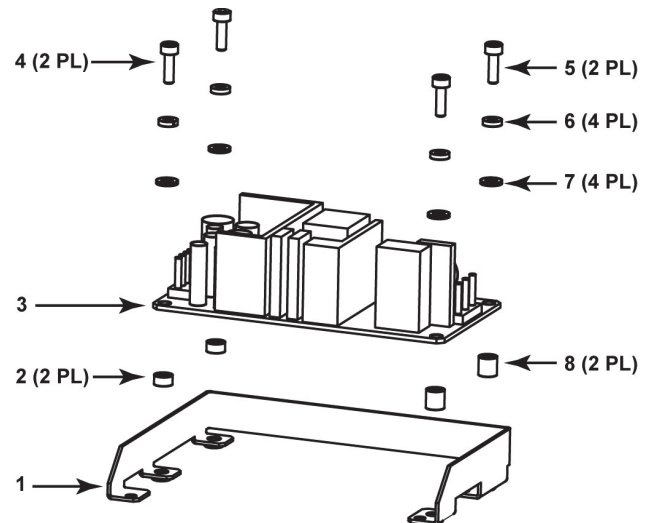❾ Fasten the new power supply to the bracket using the hardware shown in Figure 6.

Figure 6. Power Supply Assembly Hardware

1. 124013 Bracket	5. M3 x 12 mm Screw
2. Spacer, 3 mm Long	6. M3 Lock Washer
3. 103501 Power Supply	7. M3 Flat Washer

4. M3 x 8 mm Screw   8. Spacer, 6 mm Long

❿ Install new AC/DC cable (see Figure 7). The AC connector plug (3-wire) must be installed to the Power Supply connector marked J1 adjacent to the outer side rail. The DC plug (5-wire) connects to Power Supply connector J2. The DC Plug (4 wire) connects to the Main Board connector marked P1. The remaining 3 single wire slip-on connectors attach to the AC receptacle on the rear panel as shown in Figure 8.

⓫ Install the new BIOS PROM (see Figure 3)

⓬ Place the chassis into the enclosure base.

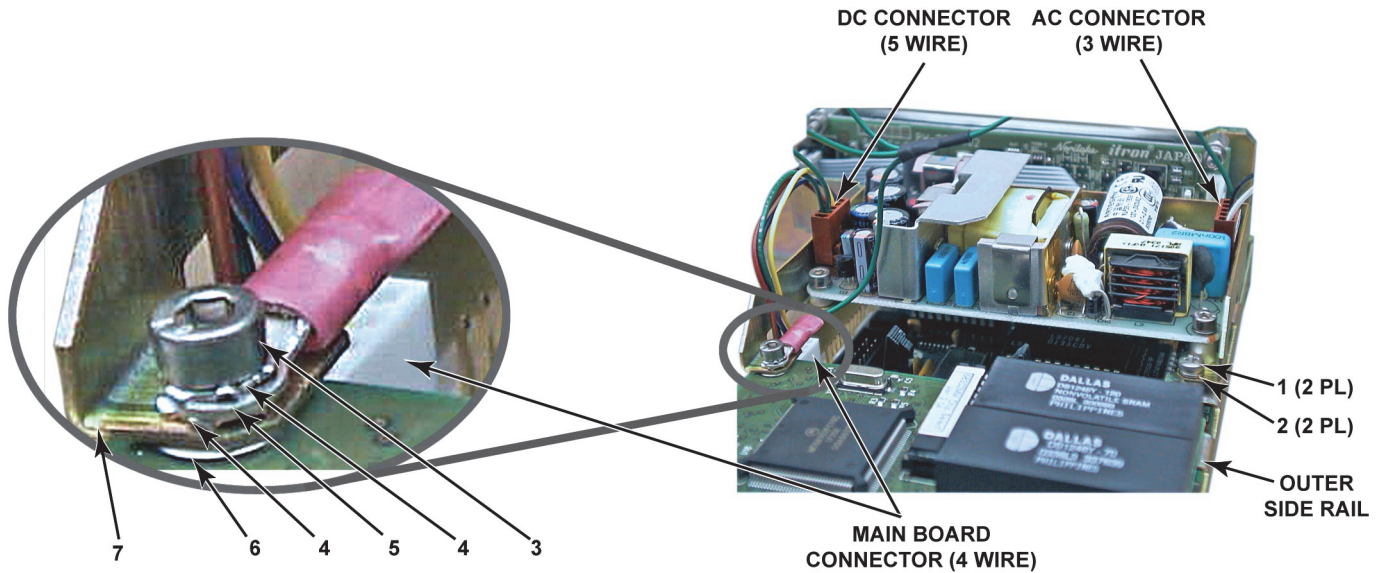⓭ Assemble enclosure cover to base by first reconnecting the fan cable, then close cover and install cover screws.

Figure 7. Power Supply Assembly Detail

1. Screw, SS, M3 x 6
2. Washer, SS, Split Lock, M3
3. Screw, M3 x 10
4. External Tooth Lock Washer
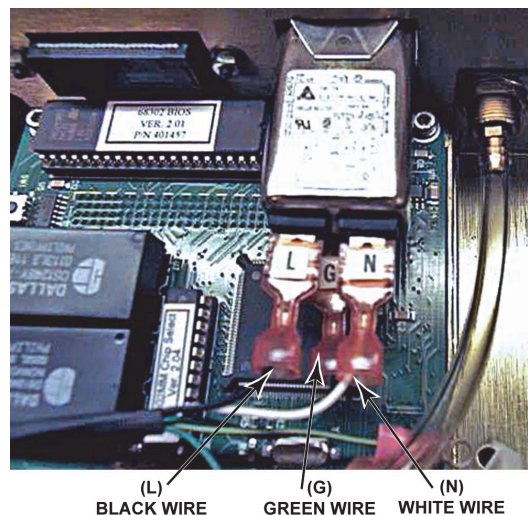5. Cable Assembly Ground Lug
6. Washer, Flat, M3
7. 124013 Bracket

Figure 8. Cable Assembly AC Receptacle Connections