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FM 10S / FMi 703, FM 20S / FMi 1405

Power Supply Module Replacement Application Guide

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FM 10S / FMi 703, FM 20S / FMi 1405

Power Supply Module Replacement Application Guide

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Table of Contents

1	Prepare to Replace a Power Supply Module	1
1.1	Tools Needed	1
1.2	Estimated Time for Replacement	1
2	Replacing a Power Supply Module	1
2.1	Turn the Transmitter AC Breaker OFF	1
2.2	Remove Lower Rear Door	2
2.3	Remove Power Supply Retaining Bracket	2
2.4	Disconnect Power Cable	3
2.5	Loosen / Remove Remaining Module Hardware	3
2.6	Partially Lower Module and Disconnect the Data Cable	4
2.7	Connect the Data Cable to the Replacement Module	5
2.8	Install the Replacement Module	5
2.9	Tighten / Install Remaining Module Hardware	6
2.10	Connect Power Cable	6
2.11	Install the Power Supply Retaining Bracket	7
2.12	Install Lower Rear Door	7
2.13	Turn the AC Breaker ON	8



1 Prepare to Replace a Power Supply Module

1.1 Tools Needed

- 3/8" Wrench or Nut Driver
- No. 2 Phillips Screw Driver (long shank)

1.2 Estimated Time for Replacement

Providing that you have the tools listed above, it will take approximately 15 - 30 minutes to complete the replacement of a Power Supply Module.

2 Replacing a Power Supply Module

2.1 Turn the Transmitter AC Breaker OFF



Figure 1 – Turn AC Breaker to OFF

2.2 Remove Lower Rear Door

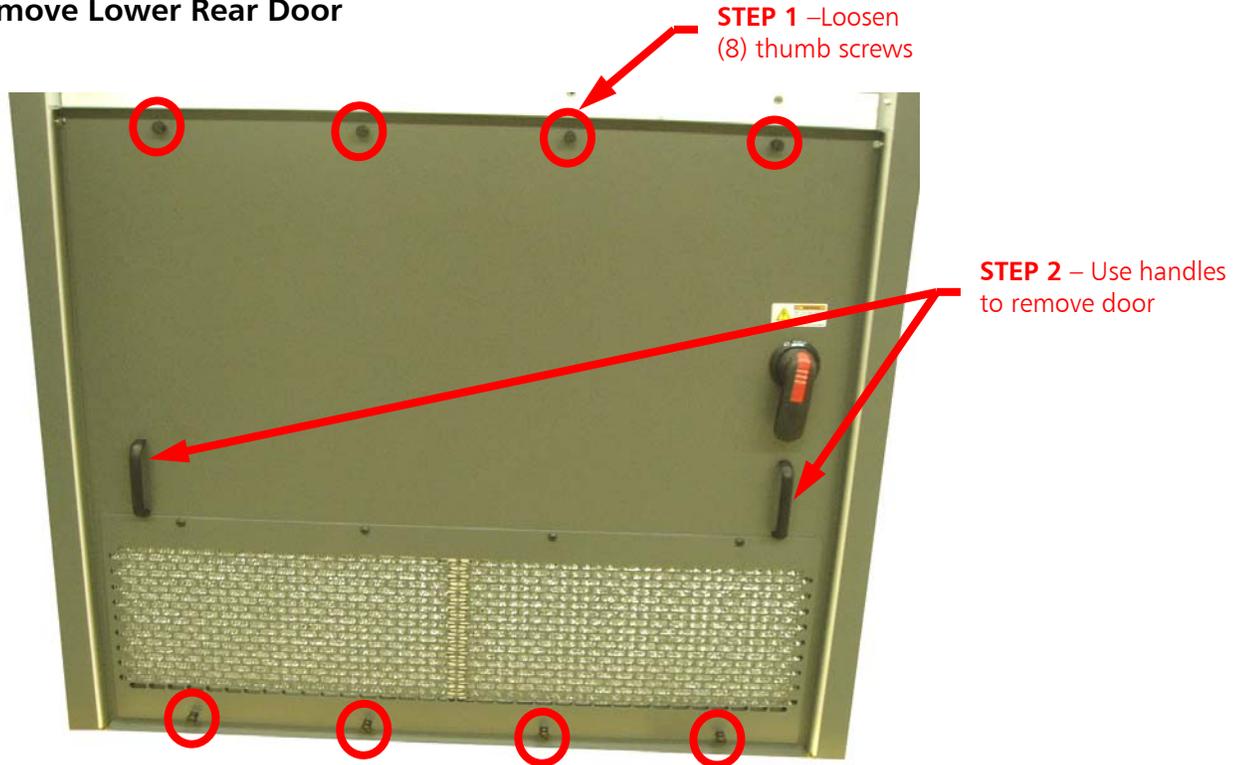


Figure 2 – Removal of Lower Rear Door

2.3 Remove Power Supply Retaining Bracket

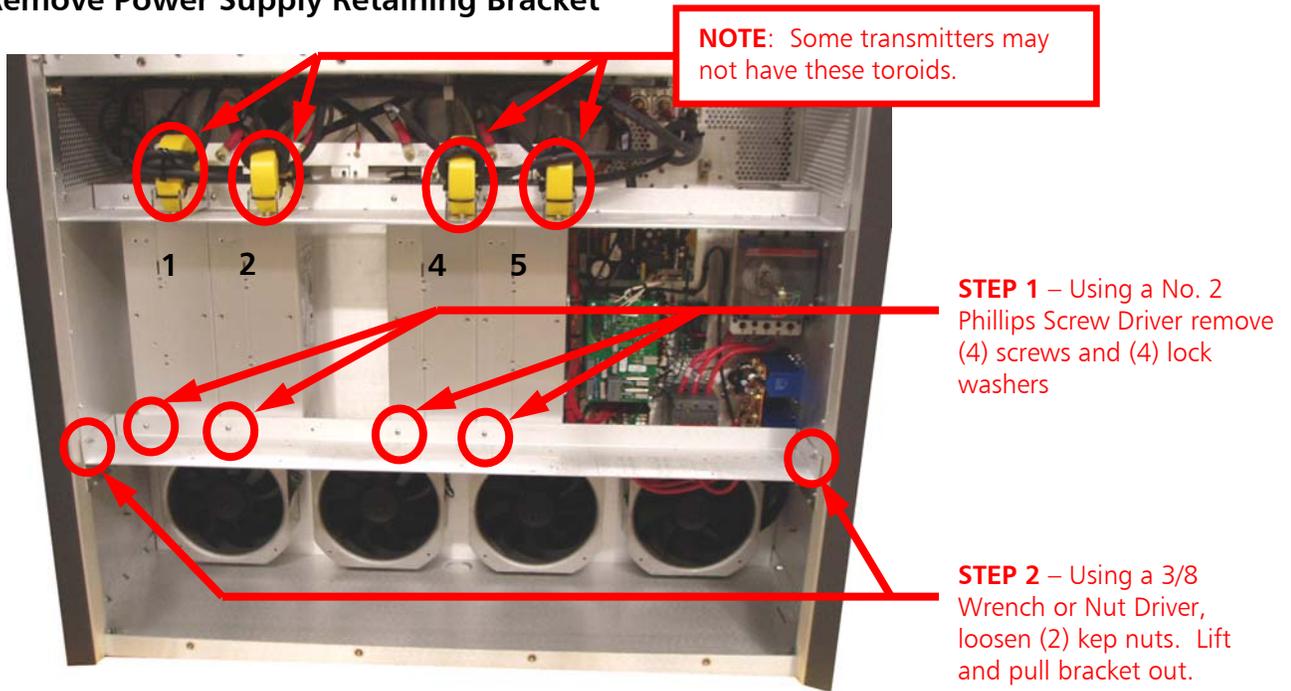


Figure 3 – Removal of Power Supply Retaining Bracket



2.4 Disconnect Power Cable

Each module has a **Power Cable** and a **Data Cable** connection. These connections are a little difficult to get to. At this stage, just disconnect the Power Cable only. The Data Cable will be disconnected later. (You may want to reference **Figure 7** to see the connector locations on the Power Supply Module.)

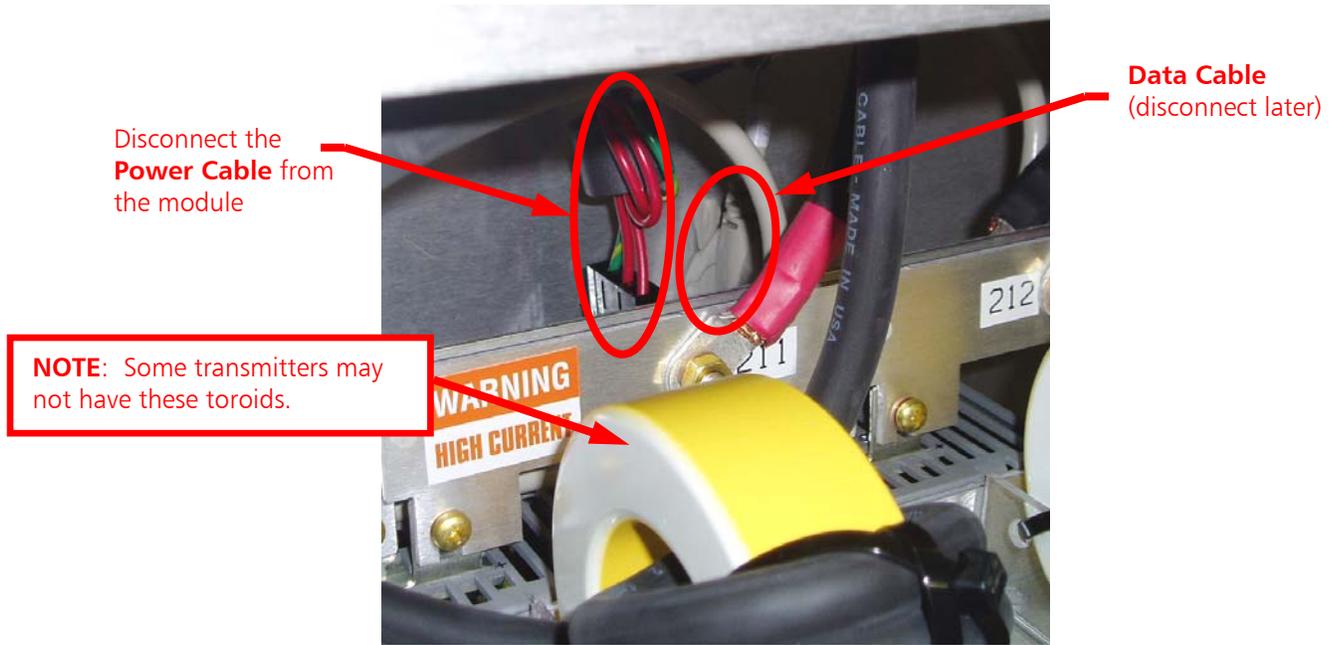


Figure 4 – Disconnect Power Cable

2.5 Loosen / Remove Remaining Module Hardware

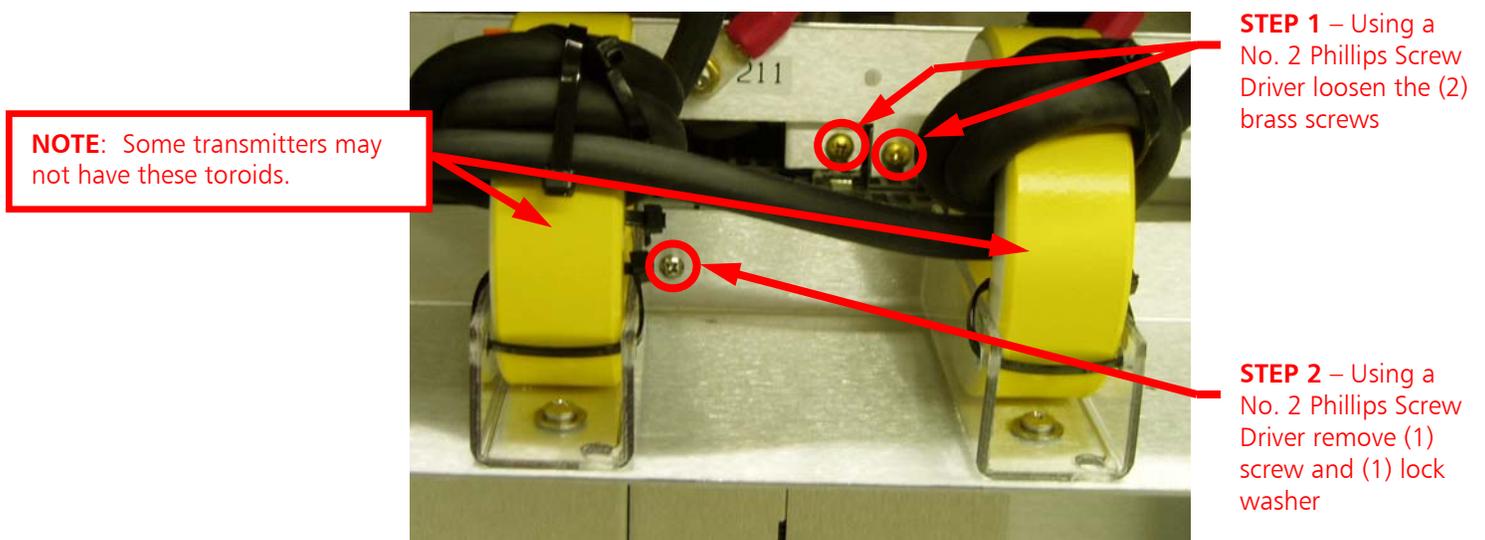


Figure 5 – Remove Remaining Module Hardware

2.6 Partially Lower Module and Disconnect the Data Cable

Pull the bottom of the Power Supply Module out slightly and lower as shown. Next, disconnect the Data Cable, and remove the module.

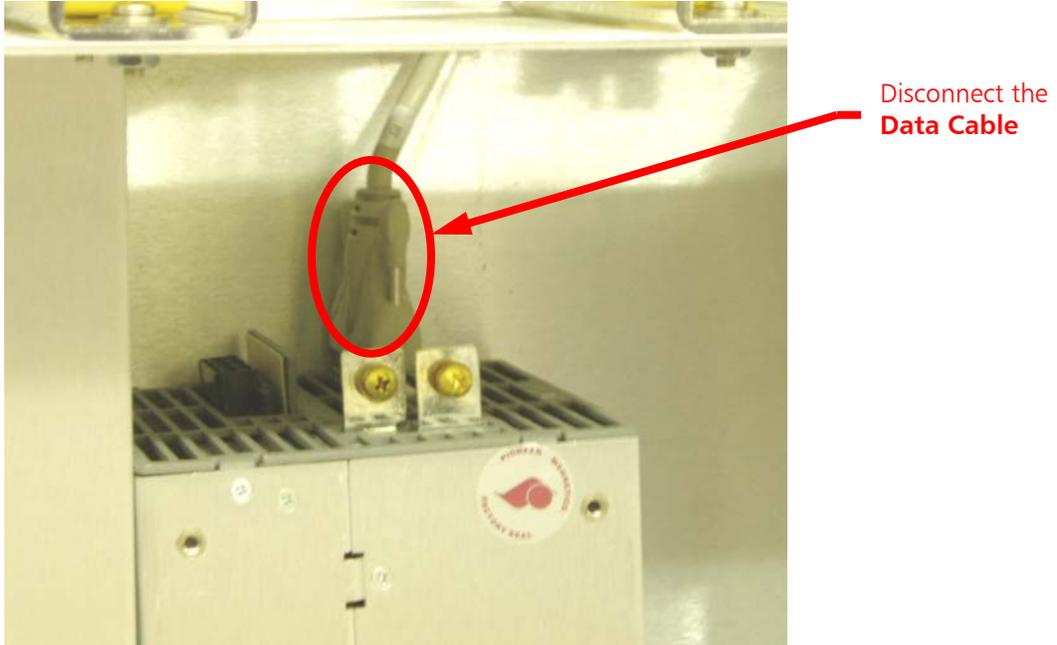


Figure 6 – Disconnect Data Cable

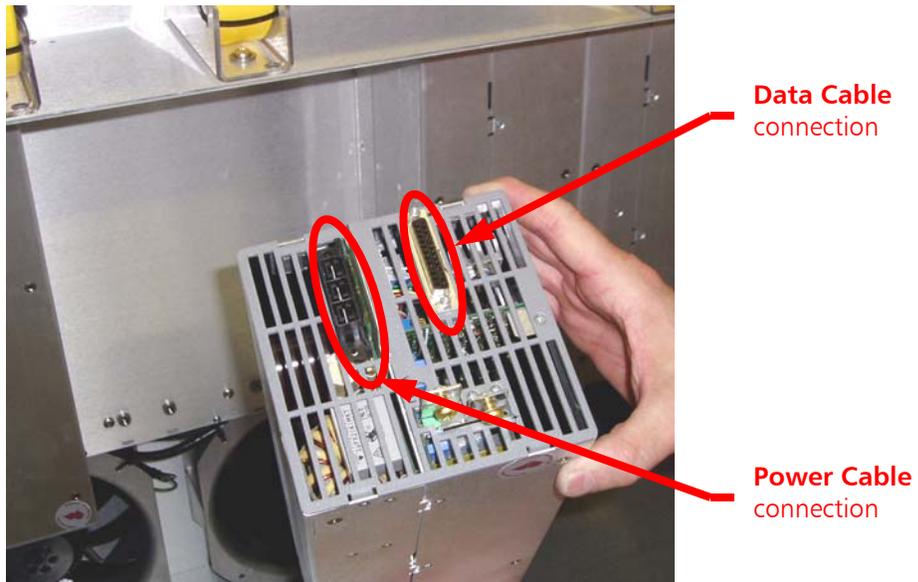
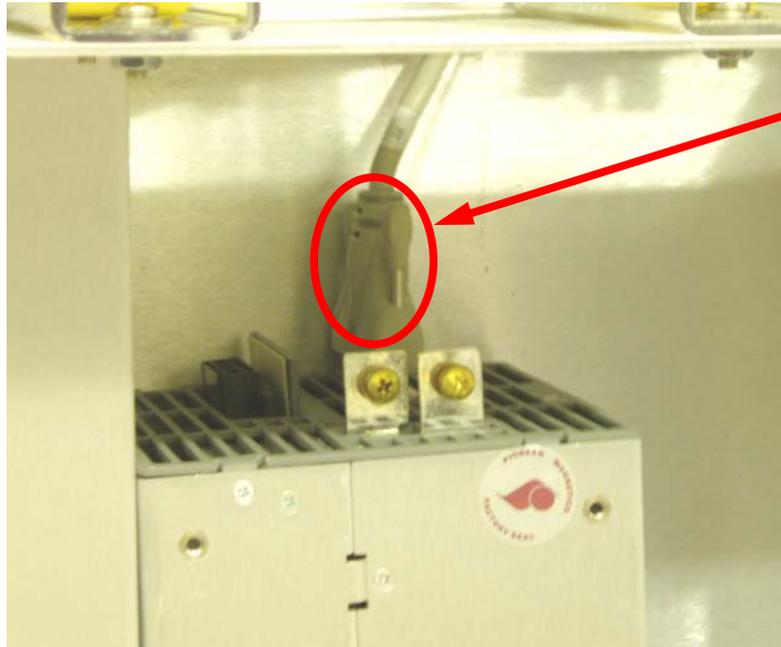


Figure 7 – Power Supply Module Removed

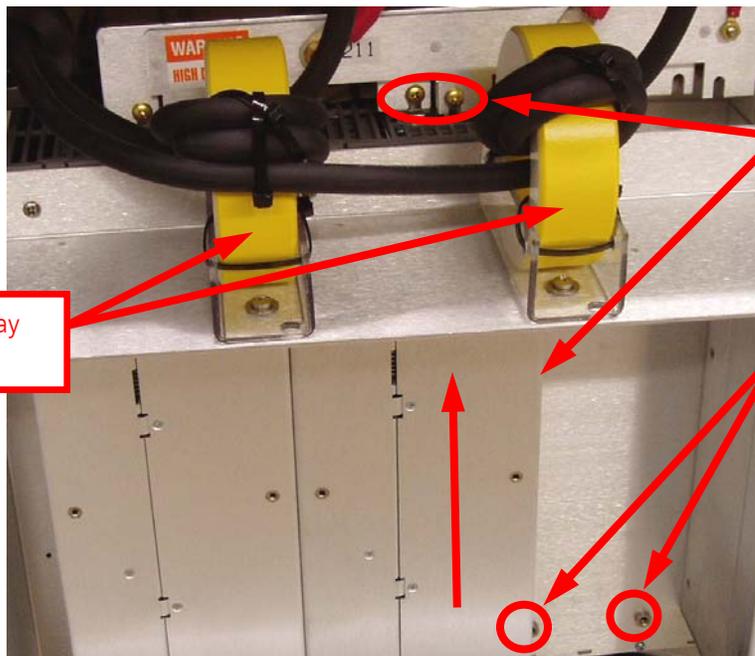
2.7 Connect the Data Cable to the Replacement Module



Connect the
Data Cable

Figure 8 – Connect Data Cable

2.8 Install the Replacement Module



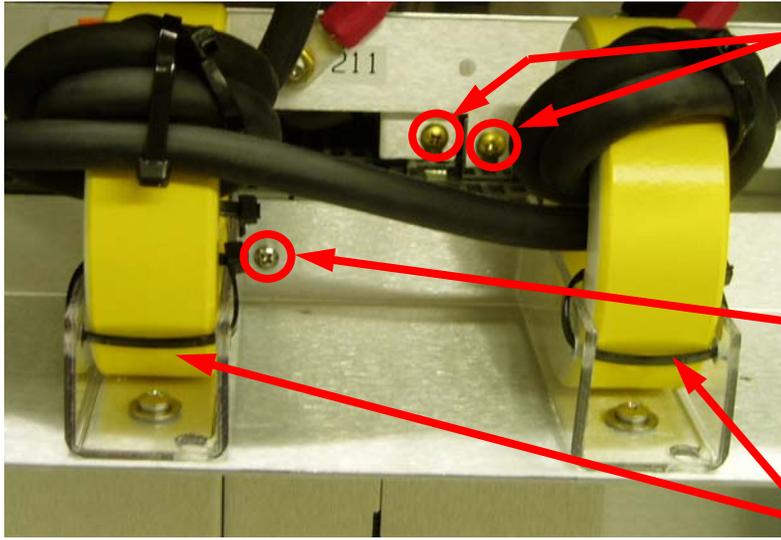
Slide the Module
back up until the
brass hardware seats
into their slots.

NOTE: Some transmitters may
not have these toroids.

NOTE: The power
supply modules all rest
on the pem nuts as
shown in the empty
slot.

Figure 9 – Connect Data Cable

2.9 Tighten / Install Remaining Module Hardware



STEP 1 – Tighten the (2) brass screws. It is critical that these screws are properly tightened to prevent arcing.

It is recommended that these be tightened to 32 lbs/in of torque minimum.

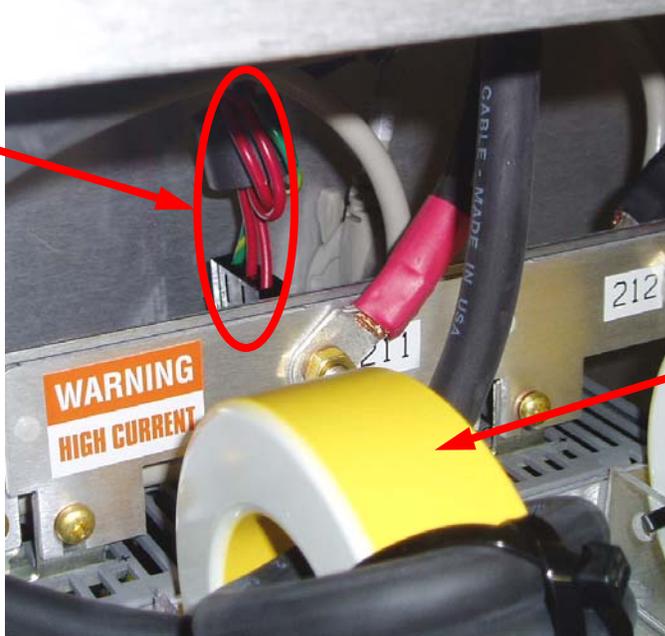
STEP 2 – Using a No. 2 Phillips Screw Driver install (1) screw and (1) lock washer

NOTE: Some transmitters may not have these toroids.

Figure 10 – Install Remaining Module Hardware

2.10 Connect Power Cable

Connect the **Power Cable** to the module



NOTE: Some transmitters may not have these toroids.

Figure 11 – Connect Power Cable

2.11 Install the Power Supply Retaining Bracket

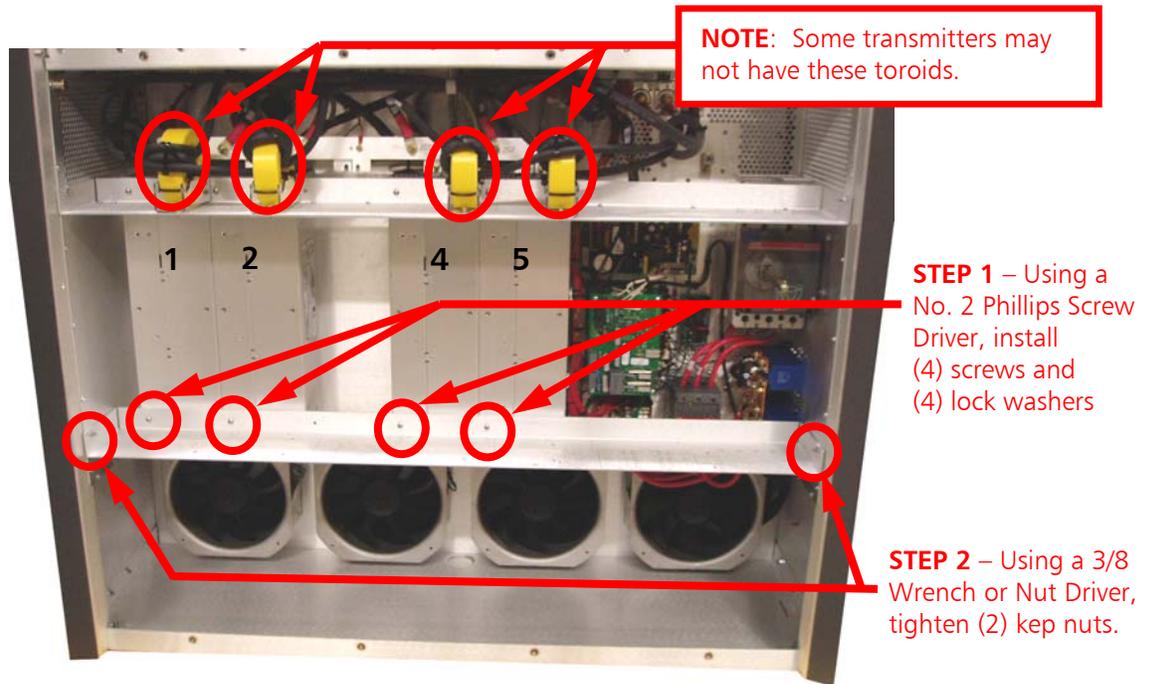


Figure 12 – Install Power Supply Retaining Bracket

2.12 Install Lower Rear Door

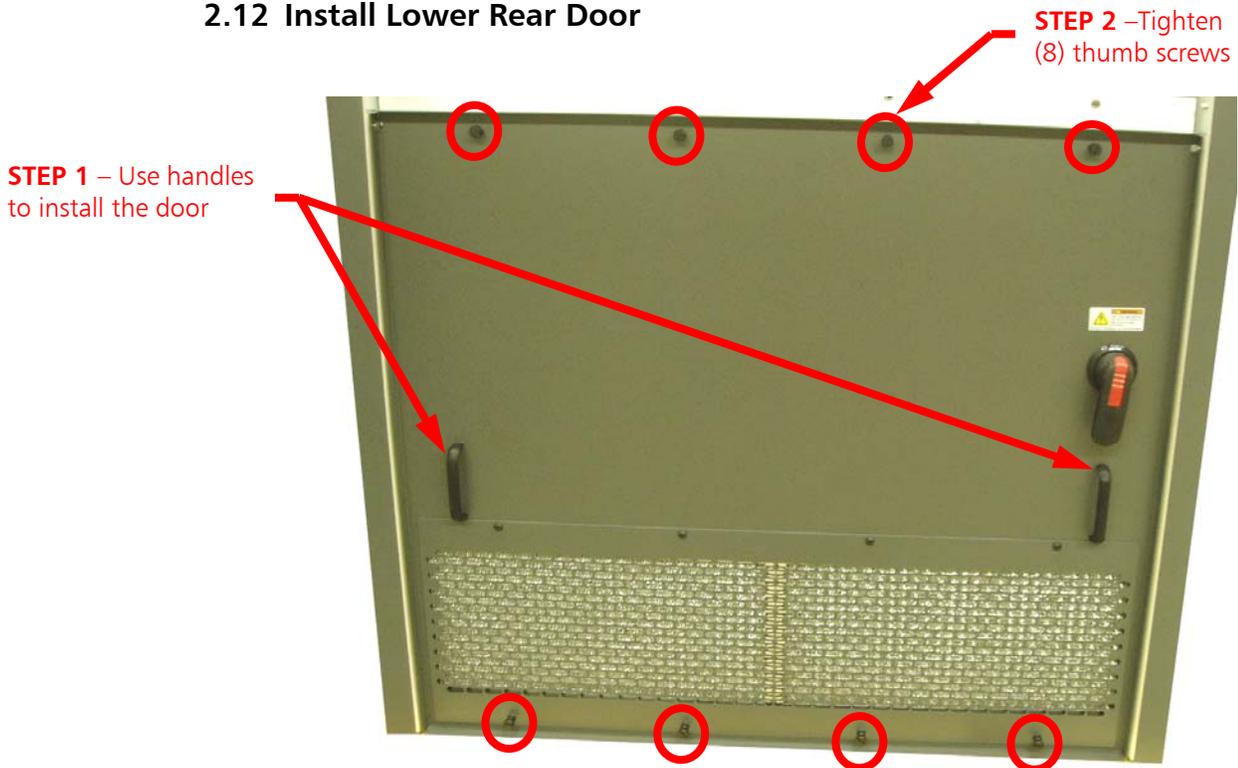


Figure 13 – Install Lower Rear Door

2.13 Turn the AC Breaker ON



Figure 14 – Turn the AC Breaker to ON

The transmitter should come up with no faults or alarms relating to the power supply.