

Cable and Track Assy Replacement

Prerequisites

Table 1. Personnel requirements

Required persons	Preliminary requirements	Procedure	Finalization
1	Not Applicable	60 minutes	Not Applicable

Table 2. Tools and test equipment

Item	Quantity	Effectivity	Part number	Manufacturer
Non Magnetic Tool Set	1	-	-	-

Table 3. Replacement parts

Item	Quantity	Effectivity	Part number	Manufacturer
Cable and Track Assy (Refer to Illustrated Parts)	1	-	-	-

Table 4. Safety

DANGER

STRONG MAGNETIC FIELD!
 FERROUS MATERIALS CAN BECOME DANGEROUS PROJECTILES IN THE PRESENCE OF THE MAGNETIC FIELD PRODUCED BY THE SIGNA MAGNET.
 Do not Bring any ferromagnetic tools or equipment into the magnet room.

WARNING

ELECTROCUTION HAZARD!
 DANGEROUS VOLTAGES ARE PRESENT AROUND THE MAGNET SUBSYSTEM WHEN ENERGIZED.
 LOCK AND TAG OUT POWER TO THE magnet room BEFORE STARTING WORK.

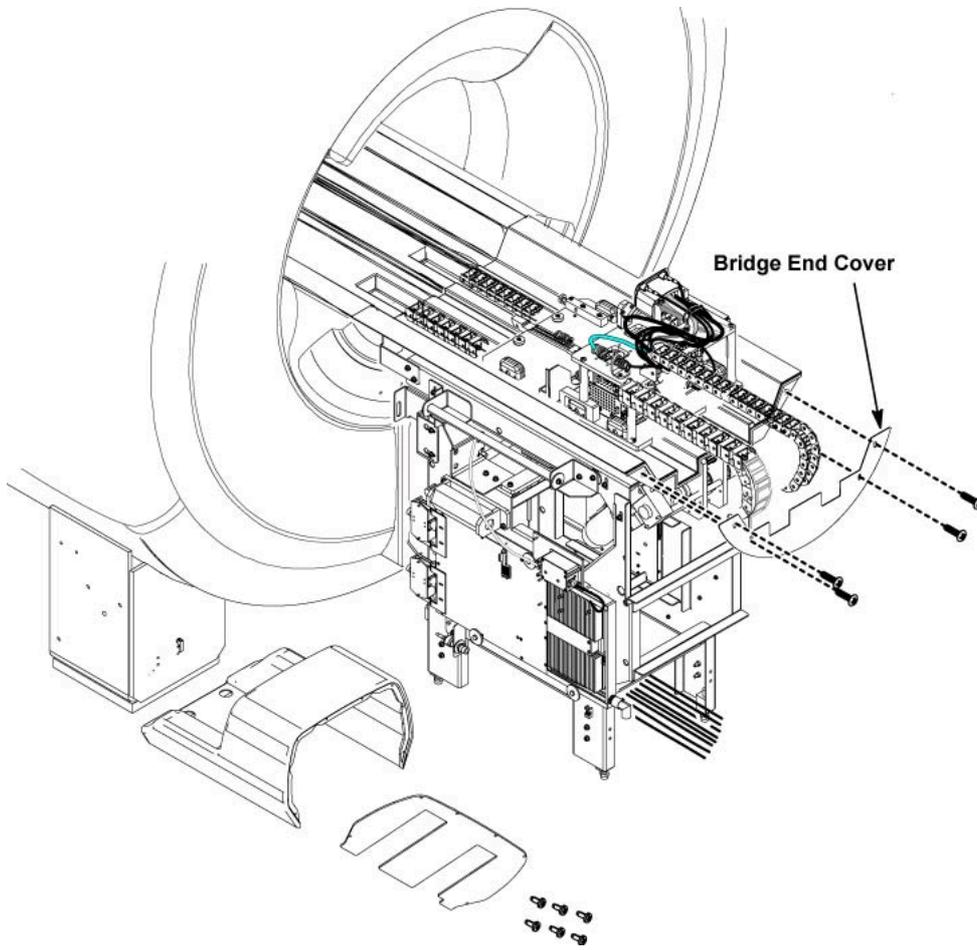
Table 5. Required conditions

Condition	Reference	Effectivity
Move the LPCA to rear pedestal with IN button of magnet front panel. Then, Separate LPCA from cradle.	-	-
System Power must be turned OFF. Refer to Lockout / Tagout for System Cabinet PDU Main Breaker .	-	-

Procedure

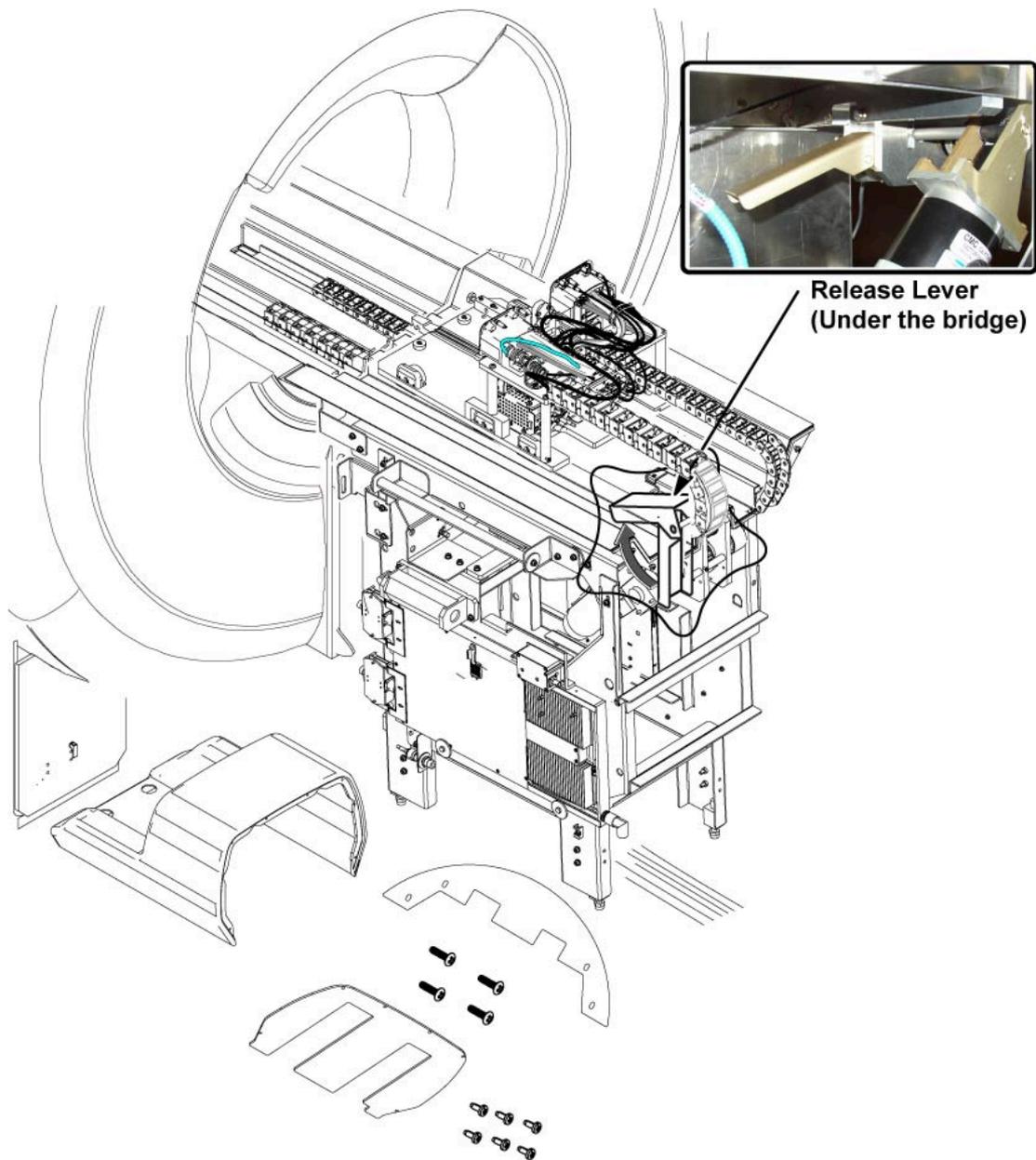
1. Remove LPCA Cover. Refer to [LPCA Cover Removal](#).
2. Remove all covers from Rear Pedestal.
3. Remove Bridge end cover.

Figure 1. Bridge end cover



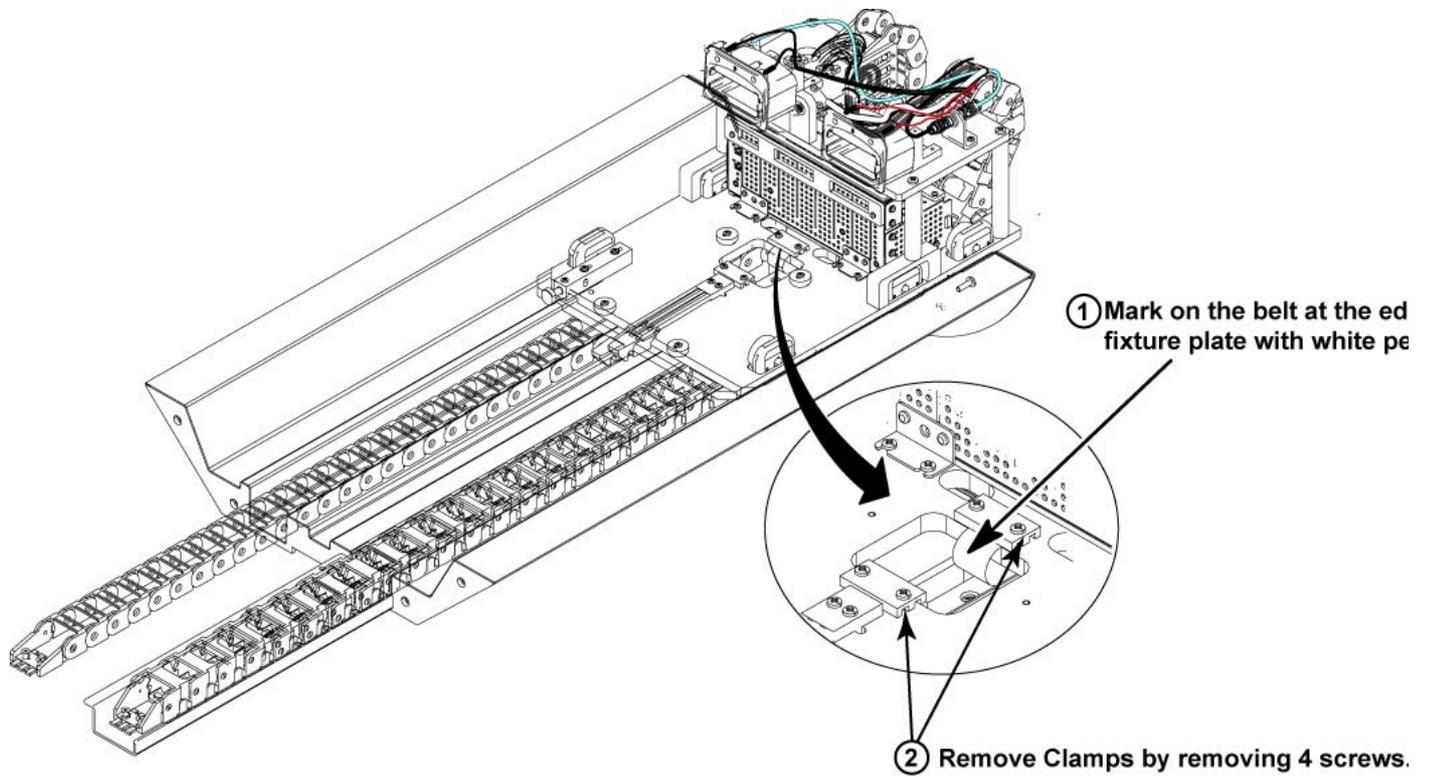
- 4. Release the lever for the belt tension.

Figure 2. Release the lever



5. Mark on the belt at the edge of fixture plate with white pen so that the belt tension can be restored it is after the replacement.
6. Remove belt fixture plates.

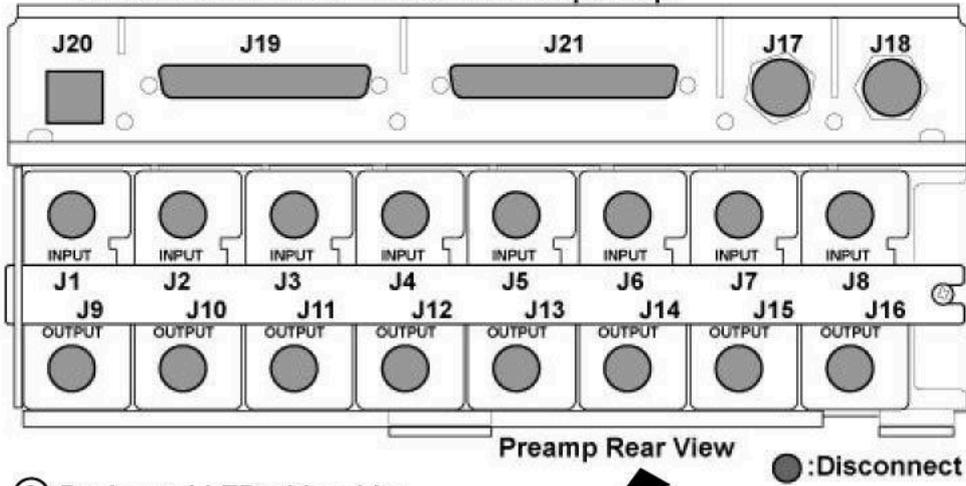
Figure 3. Belt fixture plates



7. Cut 2 tie wraps from LPCA.
8. Remove the following connectors. (J18 BNC, Sub-D Connector J21, J9 – J16 BNC connectors from MC pre-amp (Input Side), 2 LED cable-With LED, MIC)

Figure 4. Remove connectors

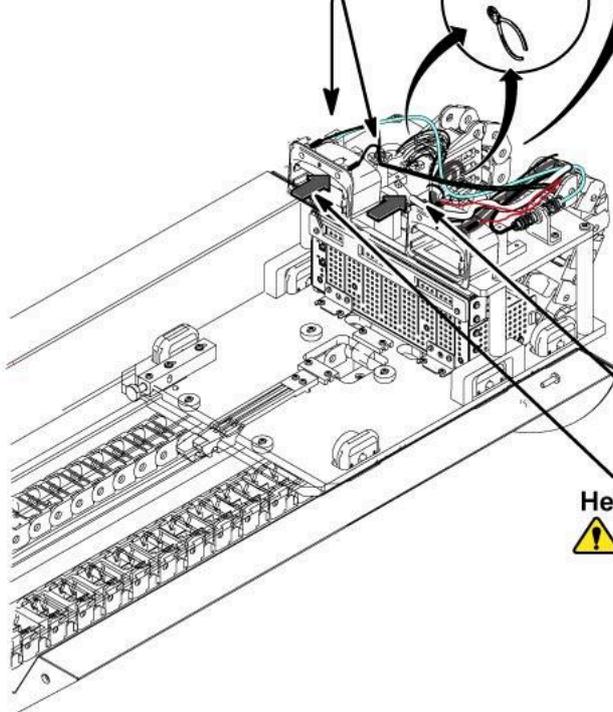
Disconnect the all connector from the preamp.



② Push out 4 LED with cables.
⚠ Do not disconnect socket from LED.



Cut the tie-wrap.

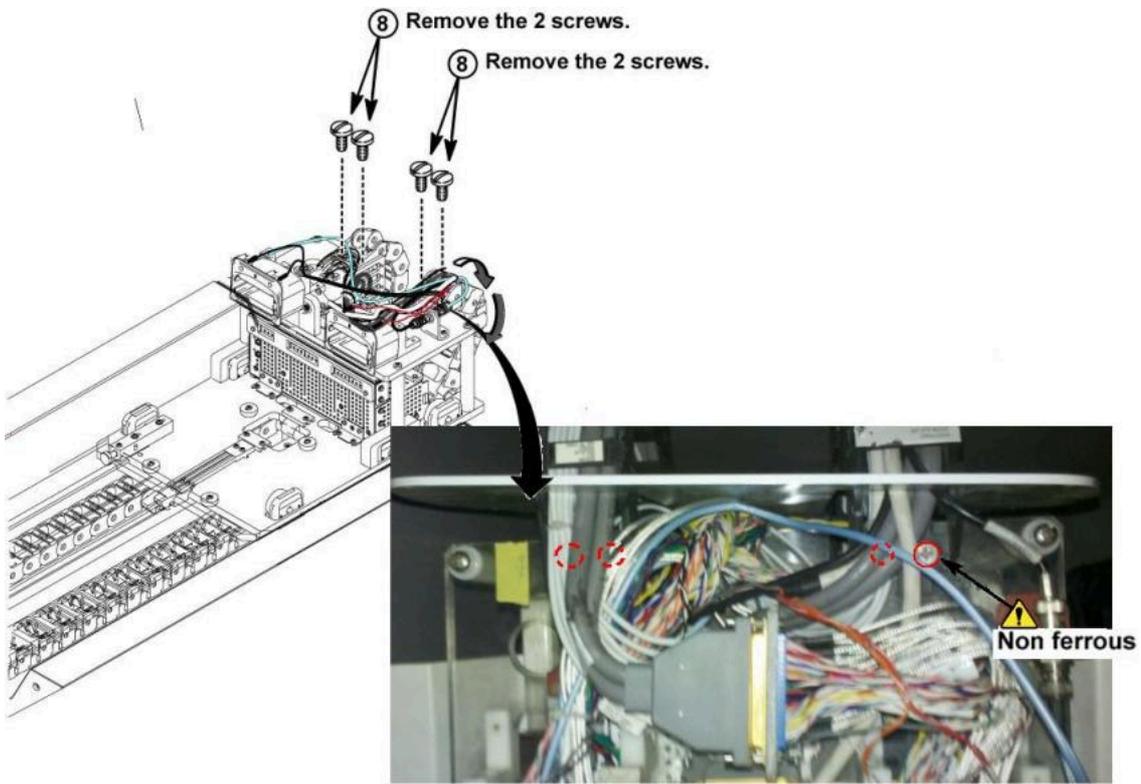


③ Push out the MIC from the MIC holder.

Hexagon Wrench
⚠ Non ferrous

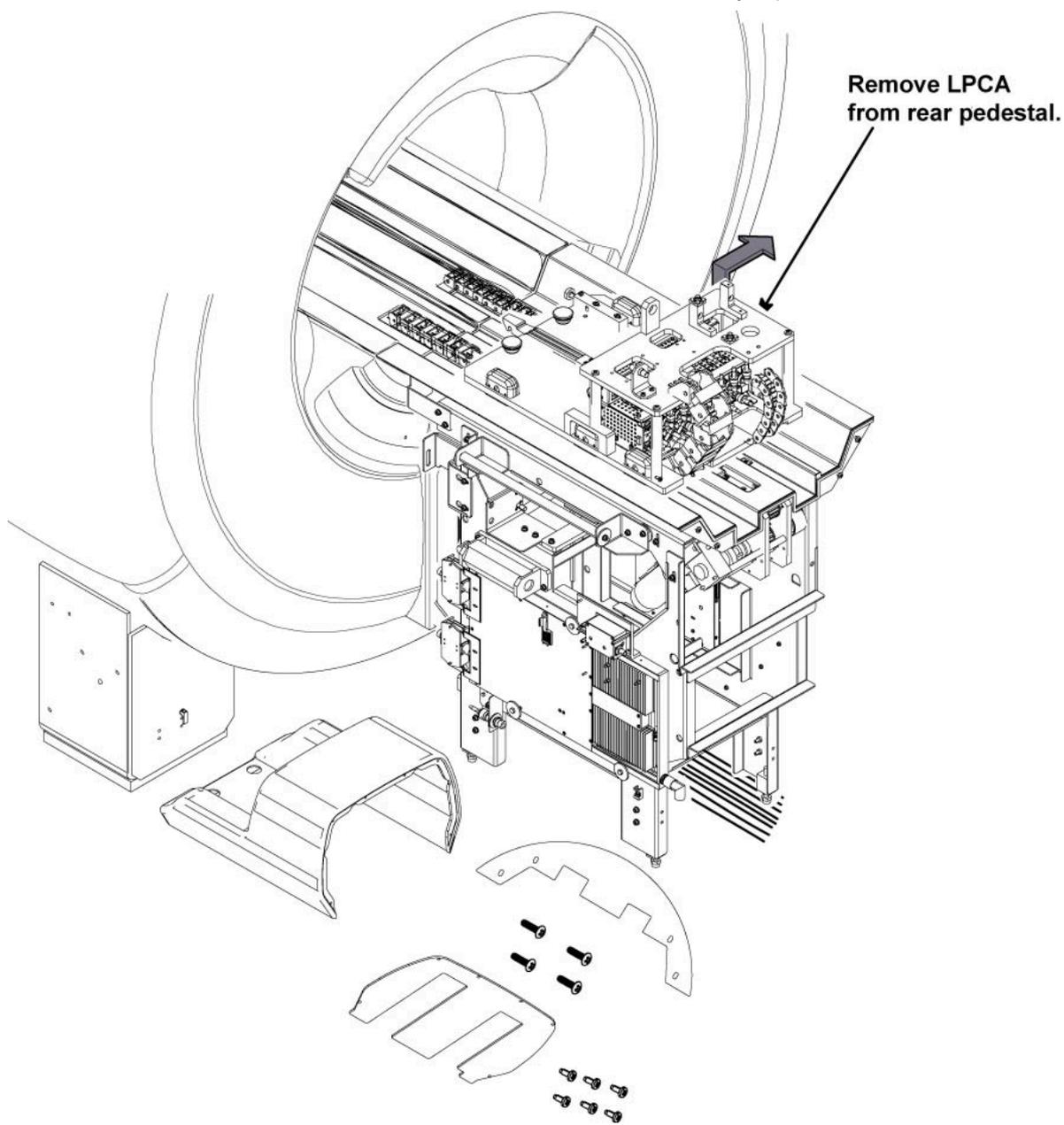
9. Remove 2 screws from cable and track assy.

Figure 5. 2 screws



10. Remove the LPCA from the Rear pedestal.

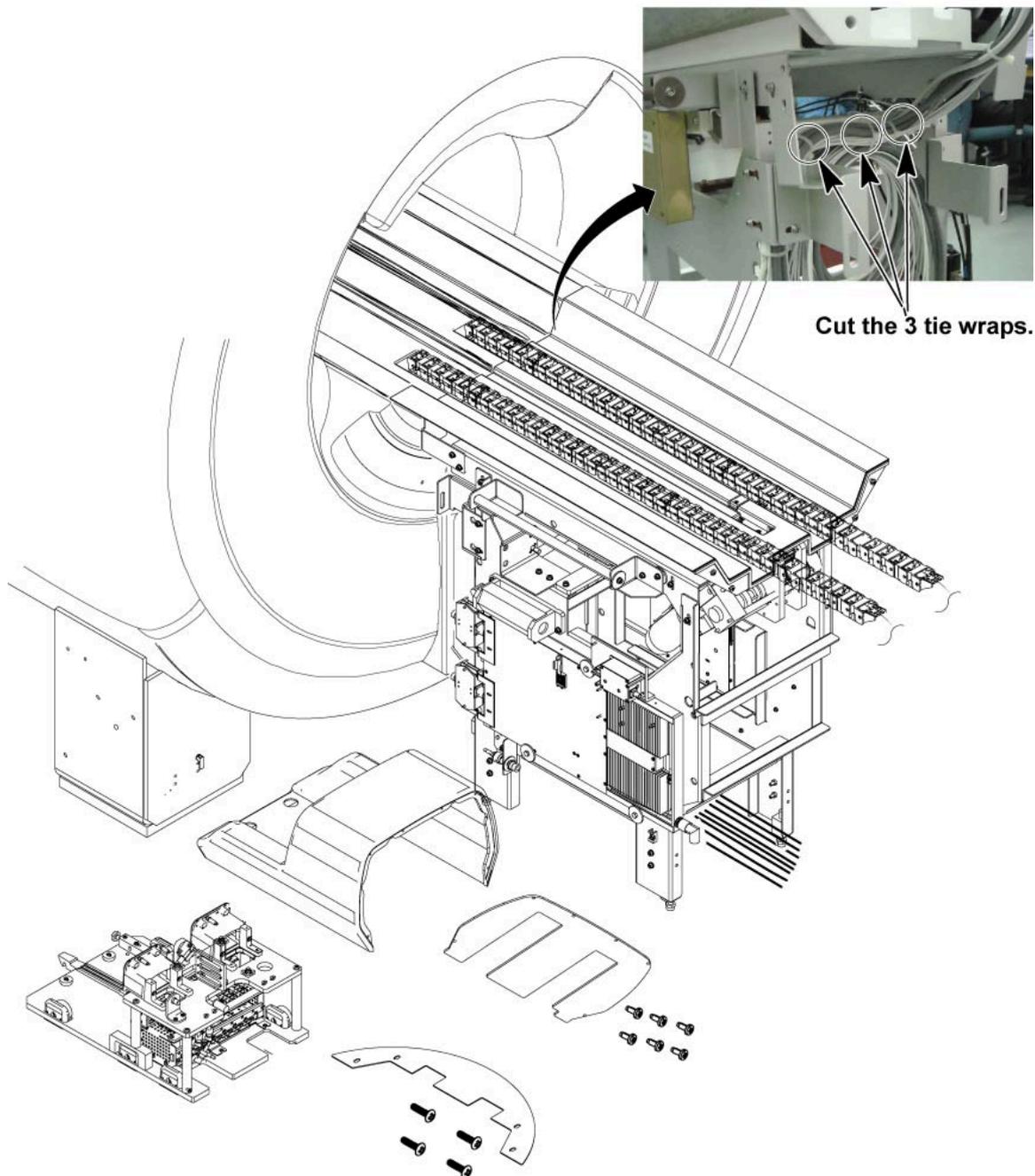
Figure 6. Remove the LPCA



11. Cut 3 tie wraps at the rear pedestal top front chassis.

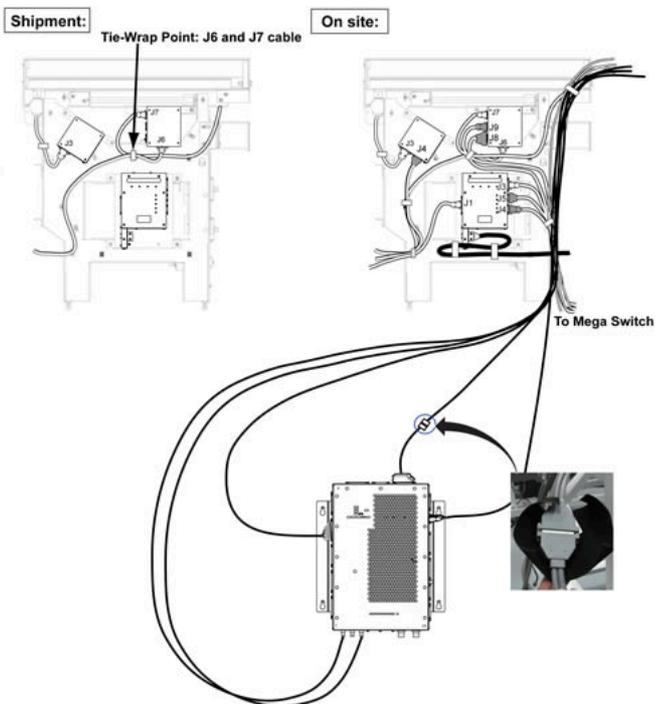
Figure 7. Cut tie wraps

View from front side



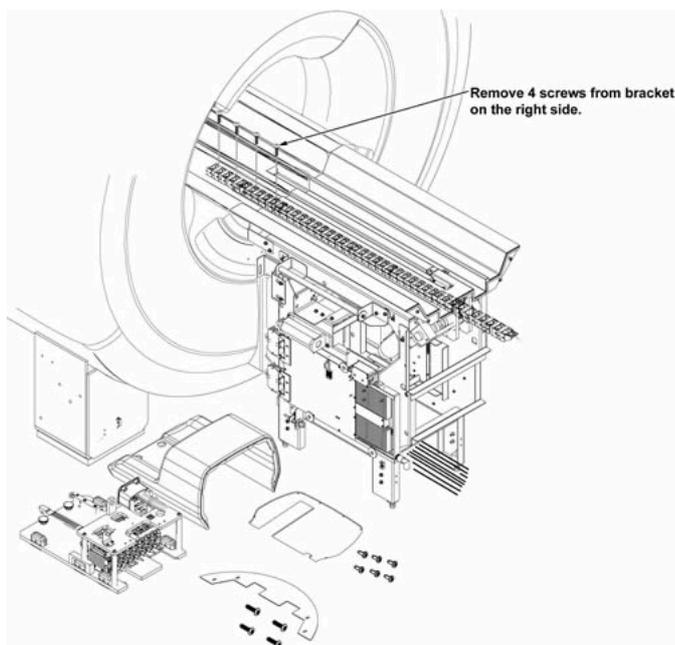
12. Remove 3 cables from Mega switch (J15, J18 and J21 connectors), Remove 3 cables from Rear Pedestal. (Left side: J7 connector. Right side: BNC of Dummy Load and J1 connectors.)

Figure 8. Remove cables



13. Remove 4 screws from bracket.

Figure 9. screws at bracket

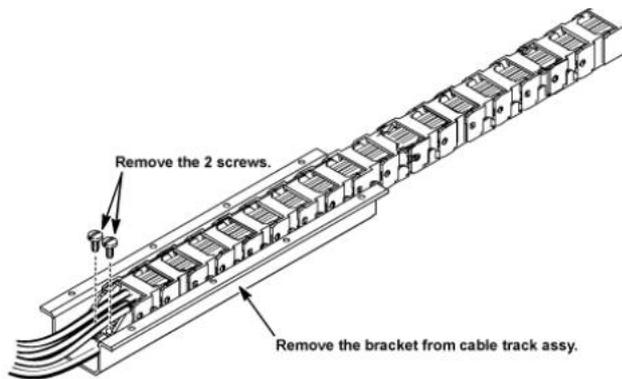


14. Remove Cable and track assy with bracket.

15. Move the Cable and track assy with bracket to the open space. (Outside of Magnet Room)

16. Remove 2 screws and remove bracket from track assy.

Figure 10. track assy

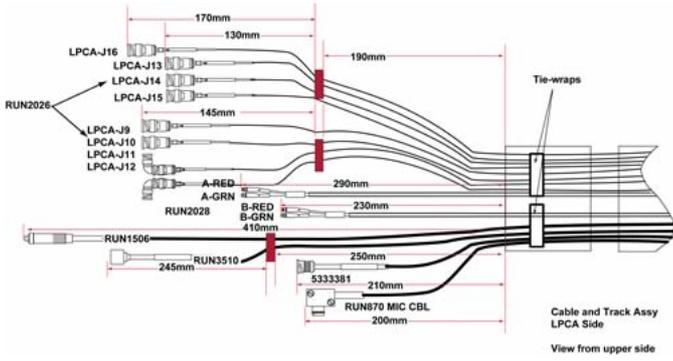


- Restore Cable and Track Assy by the reverse order of the removal.

NOTE:

The all tie wraps and cables length must be fixed at the same as illustration 11.

Figure 11. Tie-wrap Points



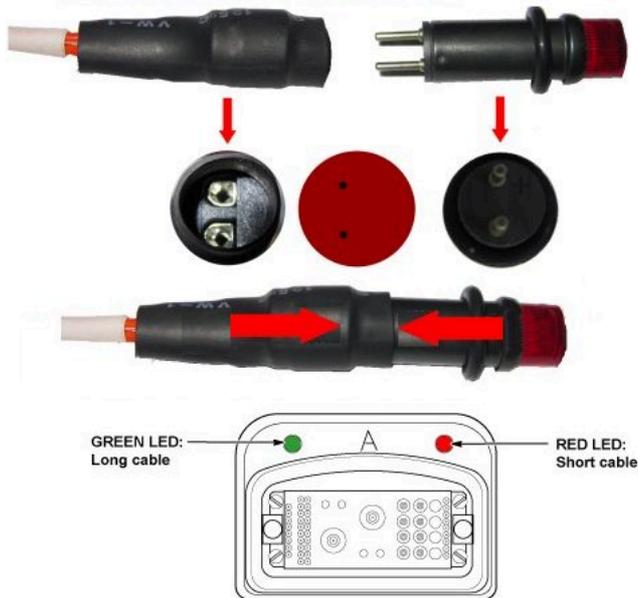
NOTE:

Connect the LED cable so that the cable is centered to the LED itself.

Figure 12.

Connection of LED Socket

The pins of the LED and the holes of socket are not in the center. Only one direction can be inserted smoothly.



Finalization

- Restore the Power. Refer to [Lockout / Tagout for System Cabinet PDU Main Breaker](#).
- Run MCR tool.
- Run one head or body scan.