

EFX600/700/800 generator grounding procedure

Applies to

EFX600/700/800 units built prior to 2/7/2019.

Issue/Symptoms

Unit may operate at maximum or minimum resistance due to a damaged LPCA. The LPCA can be damaged by electrostatic discharge (ESD) from improperly grounded drive belts.

Resolution

Check the unit for a continuity path in the drive section (described below). If the reading is bad, the generator will need to be grounded to the frame. Removing the paint and primer on the frame where the first stage (drive belt) tensioning plate sits against the frame provides a grounding path to dissipate the ESD buildup. The LPCA may need to be replaced in addition to performing procedure below.



Note: It is recommended to check all EFX's in a club if this issue is confirmed on a unit AND the units were built before 2/7/2019.

Tools required

- Multimeter
- ½" socket
- Standard file
- #2 Screwdriver
- Tension belt gauge

Warranty labor payment (US and Canada only)

For US and Canada the standard labor payment rates do not apply. Please contact Precor for an adjusted flat or hourly rate authorization dependent on number of units serviced.

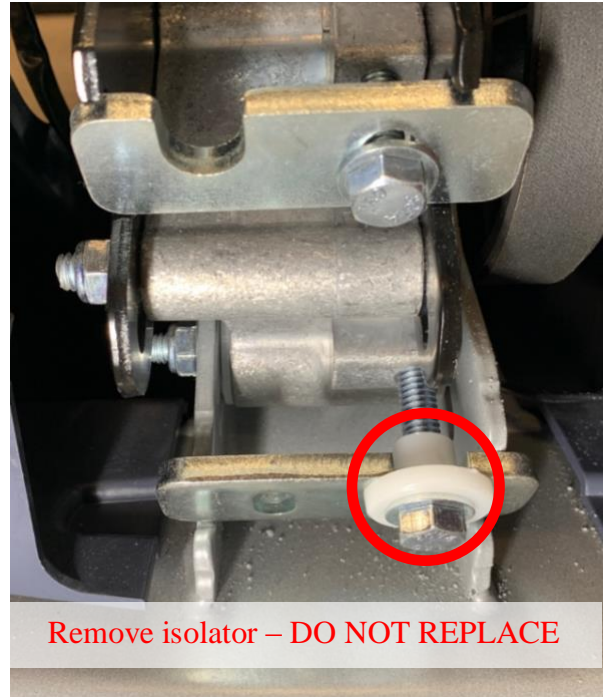
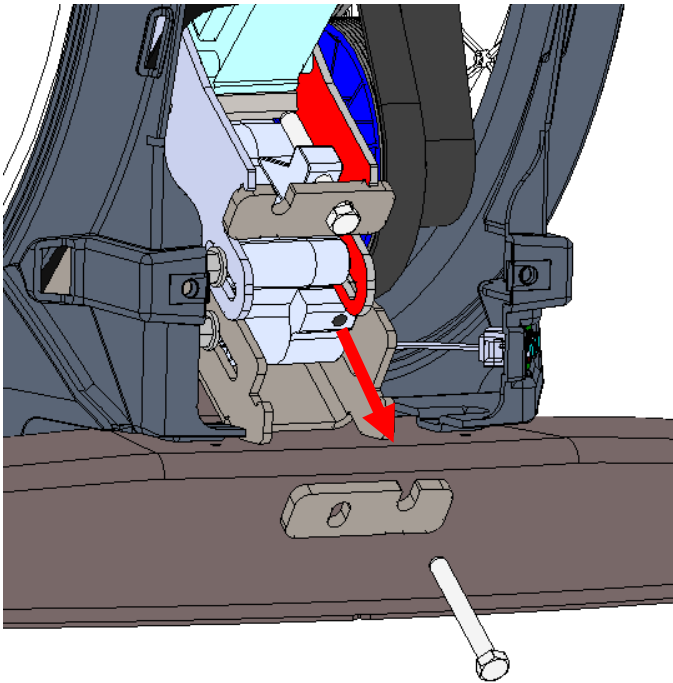
Procedure

Review entire procedure before starting.

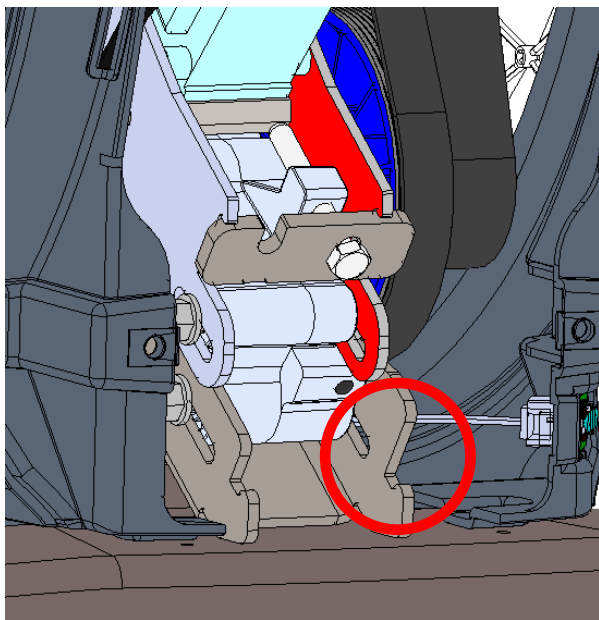
1. Remove the two screws on the drive access cover and remove the cover. See [Drive Access Panel Replacement](#).
2. Remove left side drive disk cover. See [Drive Disk Cover Replacement](#).
3. With the unit fully powered down, use a multimeter set for resistance to check the continuity from the frame of the electromagnet on the generator to the to the drive cover mounting screw. **If the resistance is over 10 ohms, continue to the next step.**



4. Use a ½” socket to remove the first stage tensioning (drive belt) bolt and tensioning plate (the lower of the two tensioning bolts).
 - a. Units built prior to 31 July 2018 may have an isolator (white plastic spacer) on the tensioning bolt. Remove and dispose of the isolator – **DO NOT REPLACE**.



5. File the top edge on the groove where the tensioning plate was seated on the right side. File until the paint and primer are removed and only bare metal is visible.



6. Clean up and remove **all** paint and metal shavings.



Caution: Ensure debris **does not** get into the ASL board connector.

7. Replace the tensioning bolt and plate.
 - a. If an isolator was removed, flip the tensioning plate and reattach through the hole drilled through the plate or order a new plate PN: 303432-102.
8. Recheck the continuity from the electromagnet to the cover screw on the frame. If the resistance is greater than 10 ohms, repeat procedure.
9. Verify the lift system by operating the incline through the full range of motion. If the lift is still inoperative, replace the LPCA.
10. Check the drive belt tension and adjust as necessary. See [First Stage Drive Tension Adjustment](#).

Drive Belt Condition	Adjustment Tension
New (less than 1 hour use)	140-150 lbs (63.5 - 68 kgs)
Used	125 - 135 lbs (56.7 - 61 Kgs)

11. Check the generator belt tension and adjust as necessary. See [Second Stage Drive Belt Tension Adjustment](#).

Generator Belt Condition	Adjustment Tension
New (less than 1 hour use)	110-120 lbs (50- 54.4 kgs)
Used	92 - 105 lbs (43 - 47.6 kgs)

12. Install the drive disk and access covers.
13. Verify unit operation and return to service.