HX

Brake Assembly Replacement Instructions

SERVICE NUMBER: 111857.0001

Parts Included: (4)- Nyloc nuts, (4)-O-Rings, (4)-carriage bolts, (4)-standoffs, (4)-hex bolts, 1cc Grease Packet, Brake Harness & connector.

Tools Required: 11/32", 7/16", 3/8" wrenches, Screwdriver, Snips.

Approximate Time Required: 1 hour.

⚠ WARNING

BE SURE ELECTRICAL POWER HAS BEEN DISCONNECTED FROM THE INPUT POWER LINES PRIOR TO REMOVING THE ELECTRICAL BOX COVER. AN APPROPRIATE LOCKOUT/TAGOUT PROCEDURE IS RECOMMENDED

CAUTION:

THIS PROCEDURE MUST BE PERFORMED WITH THE DOOR IN THE CLOSED POSITION ONLY.

INSTRUCTIONS ON THIS SHEET ARE INTENDED FOR RHX JACKSHAFT OPERATORS. SEE SHEET 2 FOR TROLLEY OPERATORS.

1. Make sure the door is closed.
2. Remove power from the unit. Use proper Lock-out/Tag-out procedures.(Refer to OSHA Standard 1910.147)
3. Remove Hoist Chain from Pocket Wheel (M). FIG. 2.
4. Drive pin out of shaft to remove pocket wheel.
5. Remove hoist cover (Z). FIG. 1.
6. Remove Throwout Shaft Assembly: FIG. 2. Roll Pin (D), E-clip (A), Washer (B), Thrust Washer (K) and Bearing (C) from Shaft (E).
7. Remove E-clip (G) and slide Bevel Gear (H) over to remove floating Pin (I). FIG. 2.
8. Slide Shaft Assembly out of Operator on the Pocket Wheel side. Be sure to capture Bevel Gear as you slide Shaft Assembly out. FIG. 2.
9. Remove Red Release Rope at Release Handle. FIG. 3-I
10. Remove Throwout Assembly: FIG. 3. Remove E-Ring (C), Wire Clip (E), Spring (D), Bevel Gear (F), Washer (G), Bearing Plate (H), Release Handle (I), Washer (G), Sleeve (L), and Ramp Assembly (J).
11. Using Needle Nose Plyers, remove Brake Harness clips from top of Brake assembly.
12. Remove 4-Self Locking Nuts (FIG. 3-A) and O-Rings (FIG. 3-B) and slide Brake Assembly off of Gear Reducer shaft.
13. *If Brake Harness replacement is neccassary: Cut zip-tie from harnesses and feed Brake harness through hole in frame. Follow leads into the Electric box. Unplug and remove harness. Feed new harness into Electric box and plug connectors into harness plug as shown in FIG. 4. Feed Harness though hole in frame and zip-tie to Interlock harnesses.*
14. *If Brake Standoff Replacement is necassary: (SEE PAGE 3 for details)*
15. Apply a small amount of supplied Grease to the Gear Reducer Shaft as shown in FIG. 3.
16. Install replacement Brake Assemebly in reverse order and install harness clips.
17. Install Throwout Assembly in reverse order of step 10 using FIG. 3 as a reference.
18. Install Throwout Shaft Assembly in reverse order of step 6 using FIG. 2. as a reference.
19. Install Hoist Chain and Red Release Rope.
20. Activate Hoist assembly to check proper operation. Install Cover (Z)
21. Apply power to Operator and test.
22. Reinstall cover (Z).

Exploded Views shown on reverse side

FIG. 1.

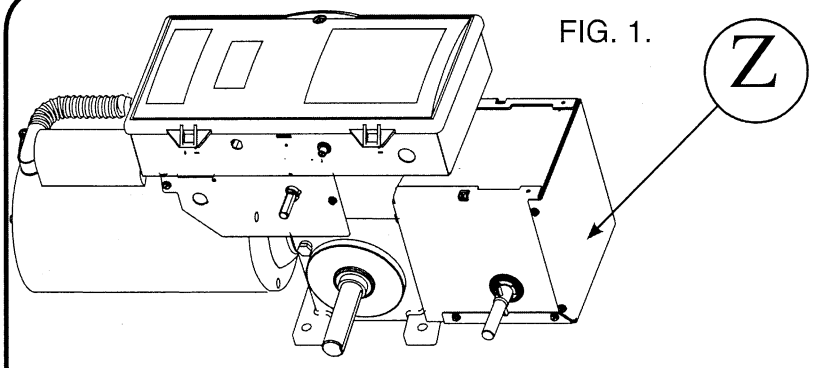


FIG. 4.

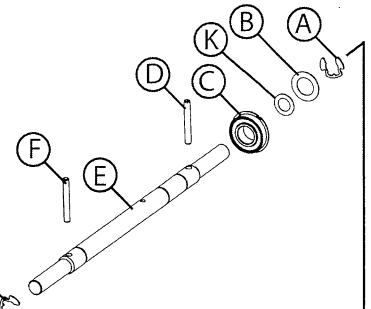


FIG. 2.

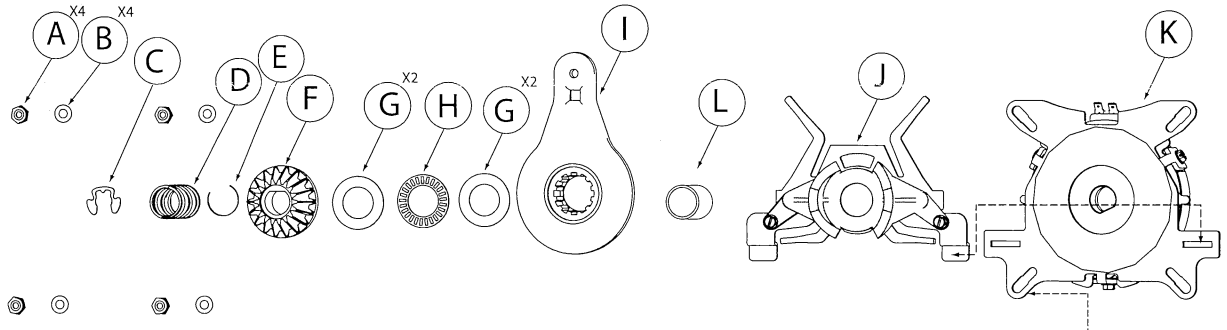


FIG. 3.

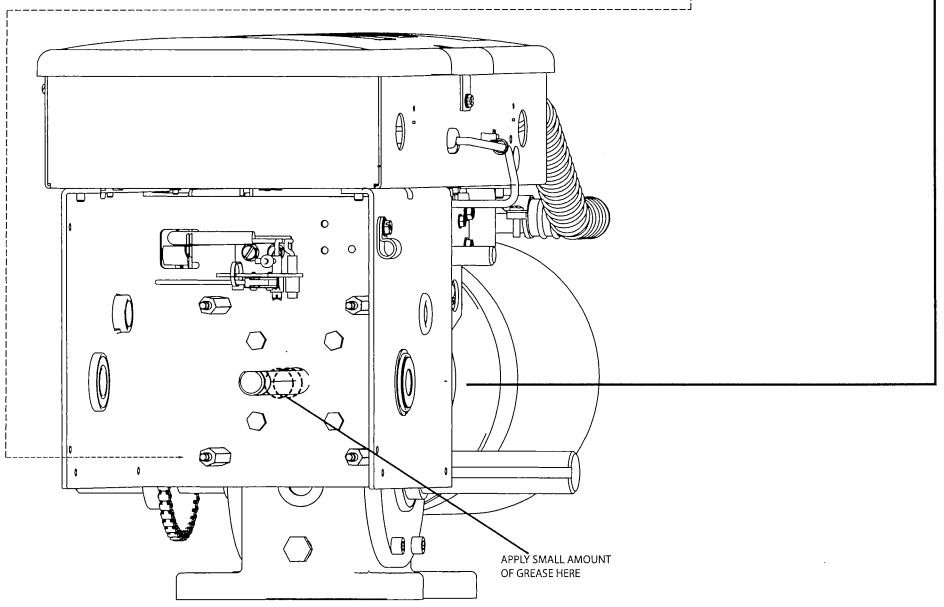
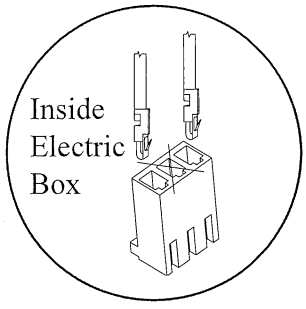


FIG. 4.



To replace Brake Standoffs on the Hoist Model HX Units:

1. Cut Zip Tie holding harnesses to Interlock Switch Bracket (FIG. 1-D).
2. Remove Interlock Switch Screws (FIG. 1-B-A) and remove Bracket.
3. Unscrew Interlock Switch from Brakect (FIG. 1-E-F)
4. Pull Interlock Swicth and Brake Harness out of housing.
5. Loosen set screw(s) from Limit Chain Sprockets to provide room for dissassembly (FIG. 2-A).
6. Remove Screws FIG. 2-B-C).
7. Remove Bolts (FIG. 2-D) to remove housing.
8. Remove damaged Brake Standoffs (FIG. 2-E).
9. Tap Track Bolts (FIG. 2-F) from Housing.
10. Tap replacement Track Bolts (FIG. 2-F) into housing from back side.
11. Install Replacemnt Brake Standoffs (FIG. 2-E)
12. Reinstall housing with bolts and screws in reverse order.
13. Reinstall Limit Chain & Sprockets.
14. Reinstall Brake Harness, Interlock Switch, Bracket and Zip Tie back into housing.
15. Install Brake starting with step 15 on page 1.

FIG. 1.

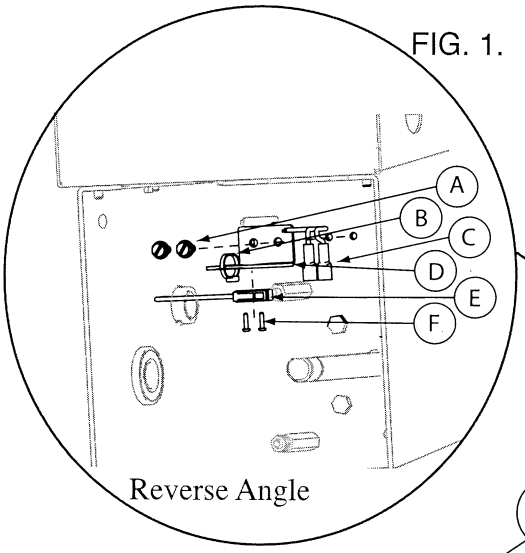
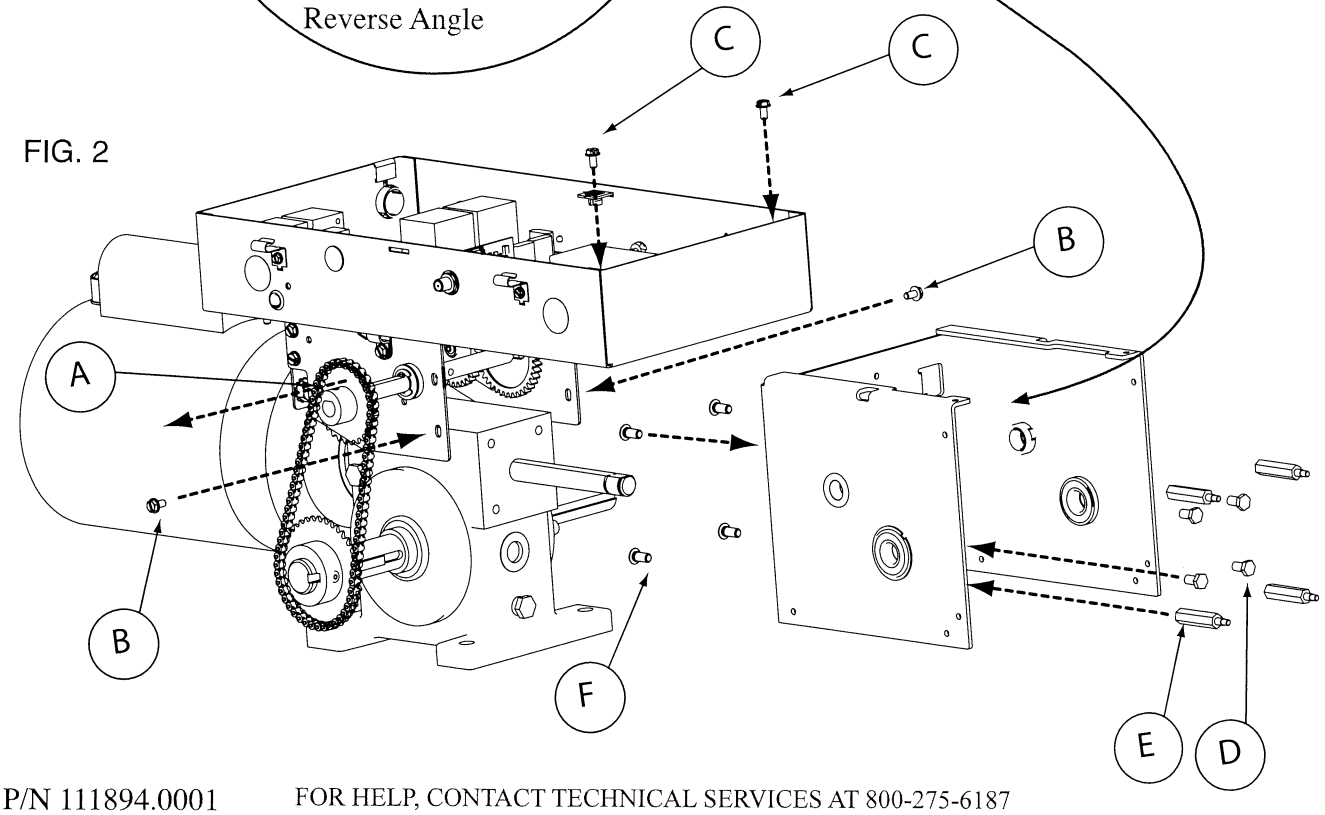


FIG. 2



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1. Make sure the door is closed.
2. Remove power from the unit. Use proper lock-out/tag-out procedures.(Refer to osha standard 1910.147)
3. Using needle nose plyers, remove brake harness clips from top of brake assembly. FIG. 2-A
4. Remove 4-self locking nuts and o-rings (FIG. 2-B) and slide brake assembly off of gear reducer shaft.
5. If neccassary, cut zip-tie from brake harnesses and feed through hole in frame. Follow leads into the electric box. Unplug and remove harness. Feed new harness into electric box and plug connectors into harness connector (FIG. 3). Feed harness though hole in frame and zip-tie to interlock harnesses.
6. If neccassary, replace brake plate assembly. Remove 4-bolts. FIG. 2-E
7. Assemble new brake plate with supplied hardware. Install 4 carriage bolts (FIG. 2-F) from the back of the brake plate. Install 4 standoffs (FIG. 2-D) and tighten securely. Install brake plate to gear reducer with 4 bolts. (FIG. 2-E).
8. Install replacement brake assemebly in reverse order and plug in harness.
9. Apply power to operator and test.

Exploded Views shown on reverse side

FIG. 1.

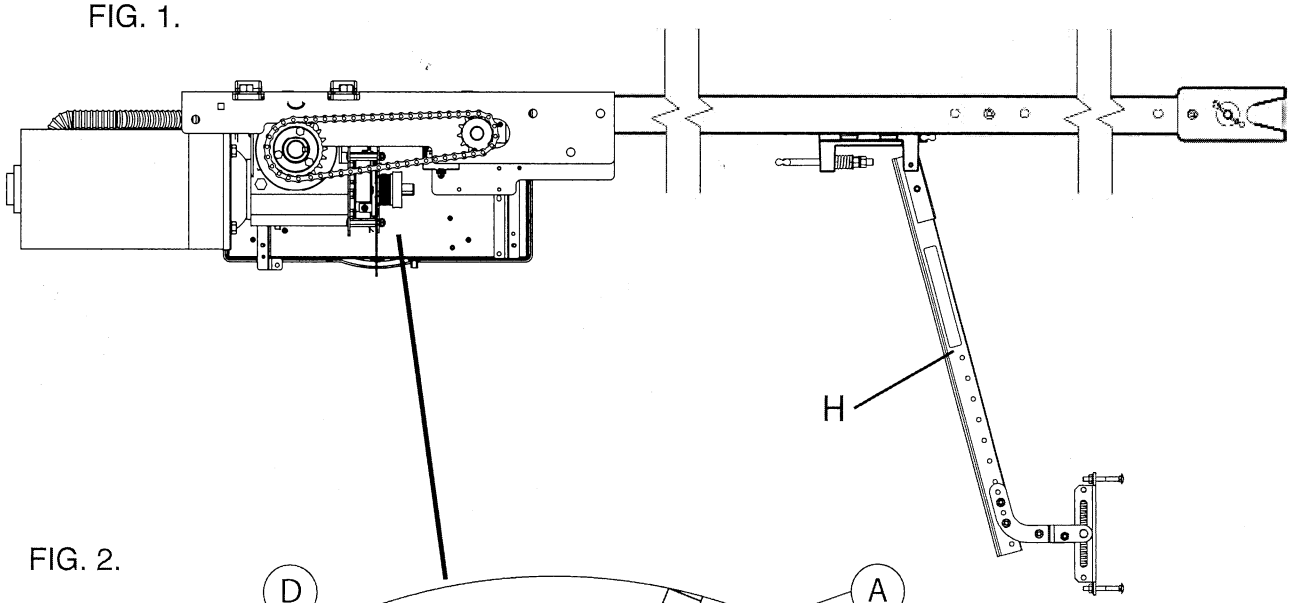


FIG. 2.

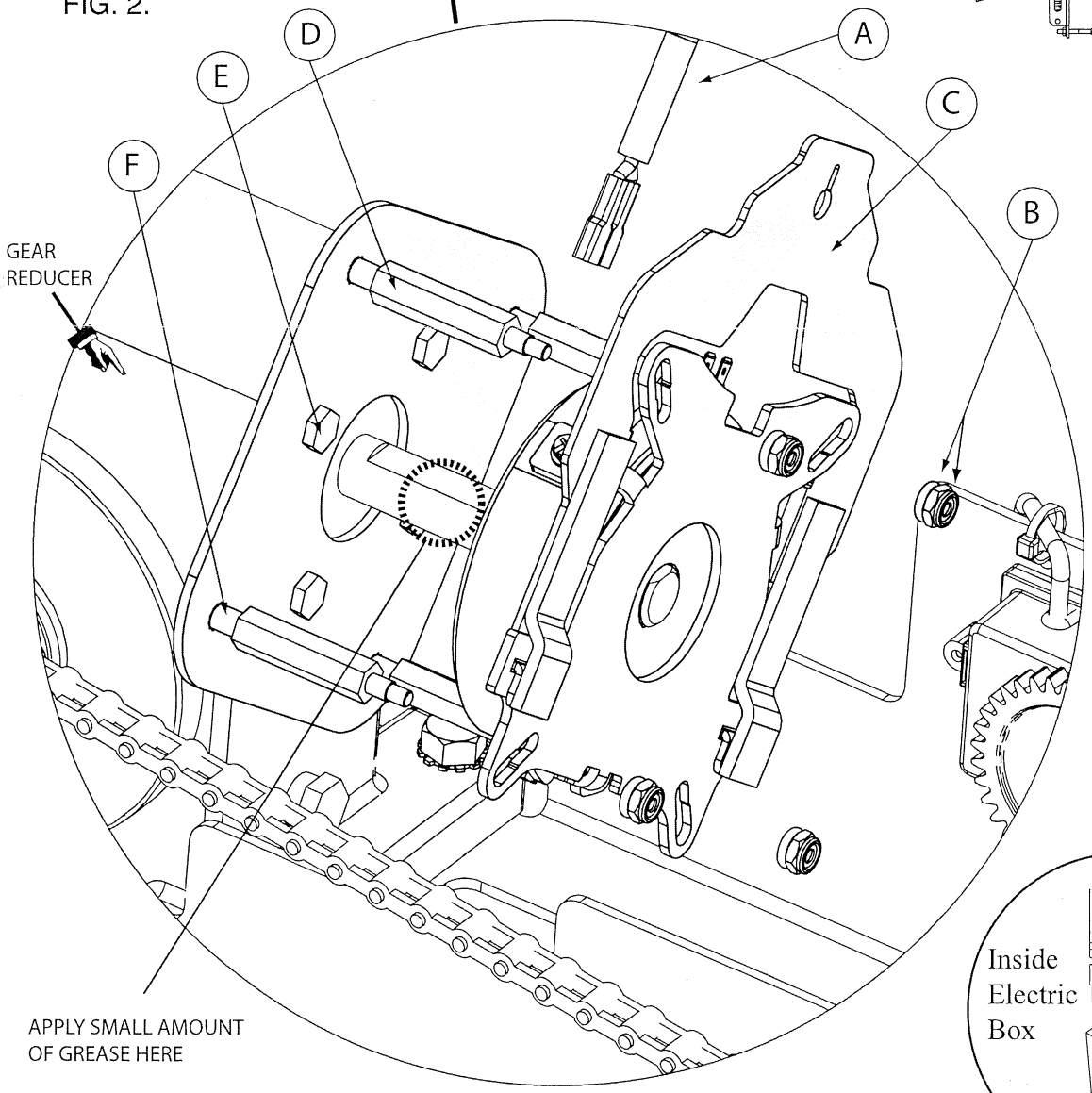


FIG. 3.

