

Bearing Replacement

Kit 24N706

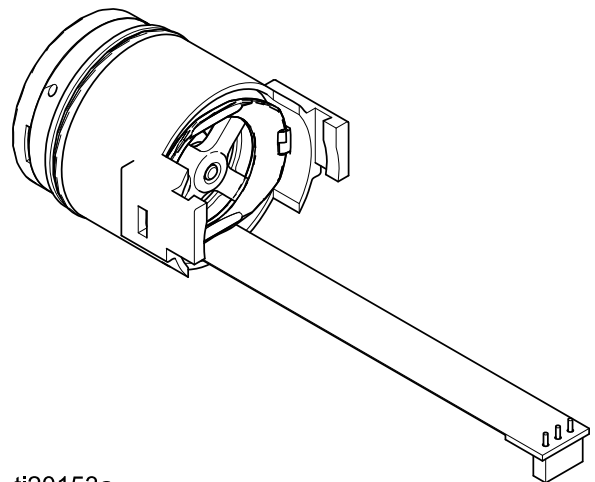
3A2500B
EN

To replace alternator bearings in a Pro Xp™ Electrostatic Air Spray Gun.
For professional use only.






Important Safety Instructions

Read all warnings and instructions in this manual and in your Pro Xp Electrostatic Spray Gun manual. **Save these instructions.**



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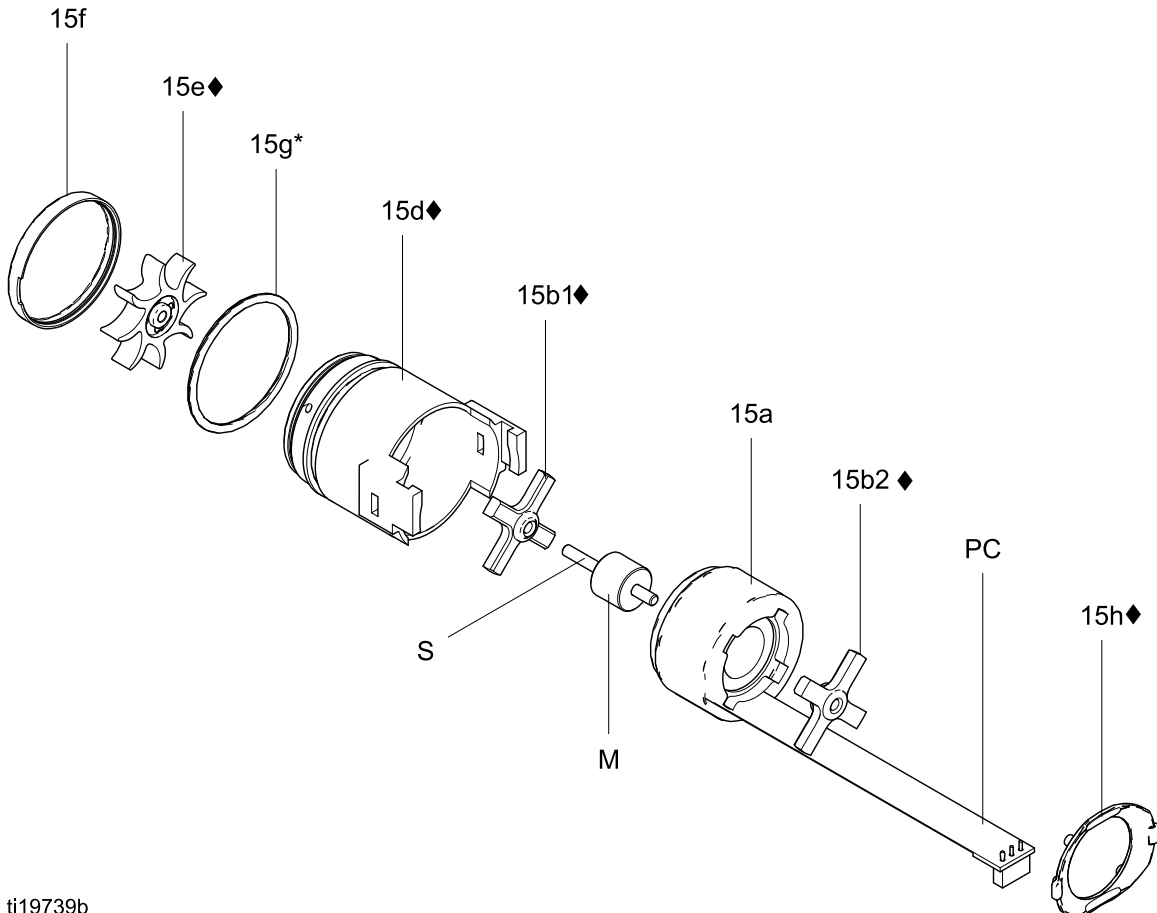
Repair

| | | | | |
|---|---|---|--|--|
|  |  |  | | |
| <p>Installing and repairing this equipment requires access to parts that may cause electric shock or other serious injury if the work is not performed properly. Do not install or service this equipment unless you are trained and qualified.</p> | | | | |

NOTE: Replace alternator bearings after 2000 hours of operation. Parts included in the kit are marked with a symbol (◆).

1. Turn OFF (O) the ES On-Off switch. Flush the gun. See your Pro Xp Gun manual.

2. Relieve the pressure. See your Pro Xp Gun manual.
3. Prepare the gun for service, as explained in your Pro Xp gun manual.
4. Remove the power supply/alternator assembly and disconnect the alternator, as explained in your Pro Xp gun manual.
5. Measure resistance between the two outer terminals of the 3-wire connector (PC); it should be 2.0–6.0 ohms. If outside this range, replace the alternator coil (15a).
6. Using a flat blade screwdriver, pry the clip (15h) off the housing (15d). Remove the cap (15f), using a thin blade or screwdriver.



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Figure 1 Alternator

7. If necessary, rotate the fan (15e) so its blades clear the four bearing tabs (T) of the housing (15d).

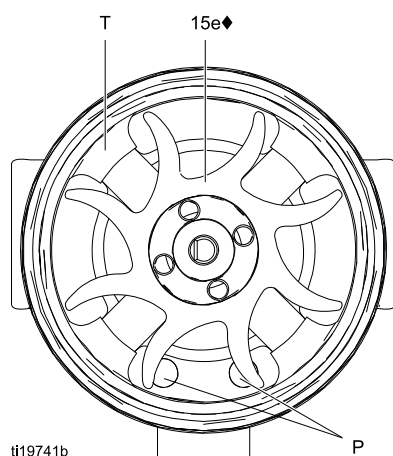


Figure 2 Fan Orientation

8. Push the fan and coil assembly (15a) out the front of the housing (15d).

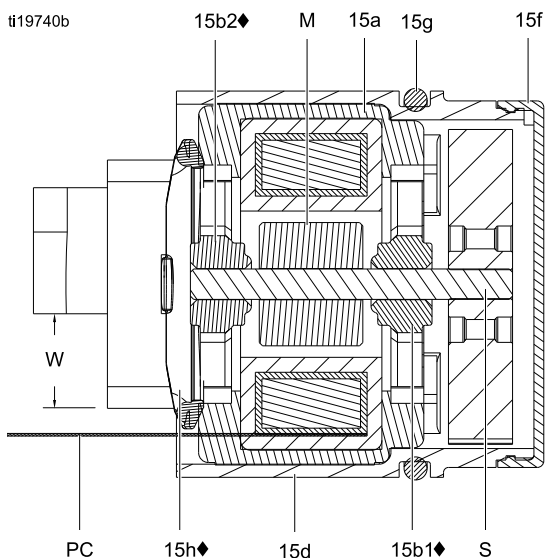


Figure 3 Alternator Cross-Section

NOTICE

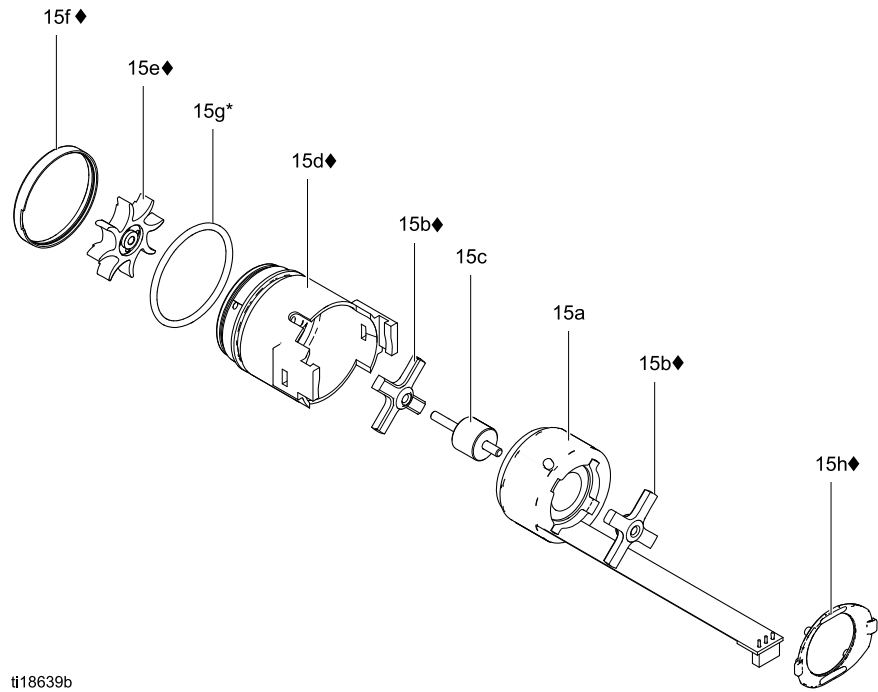
Do not scratch or damage the magnet (M) or shaft (S). Do not pinch or damage the 3-wire connector (PC) when disassembling and reassembling the bearings.

9. Hold the coil assembly (15a) on a workbench with the fan end facing up. Using a wide blade screwdriver, pry the fan (15e) off the shaft (S).
10. Remove the top bearing (15b2).
11. Remove the bottom bearing (15b1).
12. Install the new bottom bearing (15b1♦) on the long end of the shaft (S). The flatter side of the bearing must face away from the magnet (M). Install in the coil (15a) so the bearing blades are flush with the surface of the coil.
13. Press the new top bearing (15b2♦) onto the short end of the shaft so the bearing blades are flush with the surface of the coil (15a). The flatter side of the bearing must face away from the coil.
14. Hold the coil assembly (15a) on a workbench with the fan end facing up. Press the fan (15e♦) onto the long end of the shaft (S). The fan blades must be oriented as shown in Fig. 2.
15. Carefully press the coil assembly (15a) into the front of the housing (15d♦). The 3-wire connector (PC) must be positioned below the wider notch (W) of the housing tabs, as shown in Fig. 3. Be sure the coil alignment pins (P) are positioned as shown in Fig. 2.
16. Rotate the fan (15e) so its blades clear the four bearing tabs (T) at the back of the housing. Ensure that the blades of the bottom bearing (15b1♦) align with the tabs.
17. Seat the coil fully into the housing (15d♦). Secure with the clip (15h♦), ensuring that its tabs engage the slots in the housing.
18. Ensure that the o-ring (15g) is in place. Install the cap (15f).
19. Install the alternator on the power supply, and reassemble the gun. See your Pro Xp gun manual.

Notes

[illegible]

Parts



ti18639b

| Ref. No. | Part No. | Description | Qty |
|----------|----------|---|-----|
| 15b◆ | — — — | BEARING | 2 |
| 15d◆ | — — — | HOUSING | 1 |
| 15e◆ | — — — | FAN; part of item 15b | 1 |
| 15f◆ | — — — | CAP, housing, alternator | 1 |
| 15h◆ | 24N709 | CLIP; package of 5 (one clip included with kit) | 1 |
| 28◆ | 24N699 | GASKET, barrel (not shown) | 1 |

Parts labeled — — — are not available separately.

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Original Instructions. This manual contains English, MM 3A2500

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