

GENUINE GRACO PARTS & ACCESSORIES



220853 Repair Kit 287737 Repair Kit

Replacement Motor Brushes

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⚠ WARNING

Pressure Relief Procedure

To reduce the risk of serious bodily injury including fluid injection, splashing in the eyes or on the skin, moving parts, or electric shock always shut off, unplug sprayer, and completely relieve air and fluid pressure before changing brushes.

To relieve pressure:

Shut off power to pump, hold metal part of gun firmly to side of grounded metal pail, and trigger gun to relieve pressure. ENGAGE TRIGGER SAFETY LATCH. Open any fluid drain valves. If you suspect pressure is not fully relieved, slowly loosen tip guard retaining nut and relieve pressure gradually.

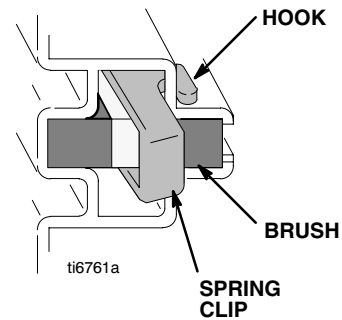


Fig 1

Disassembly

1. Remove motor cover, screws and washers.
Remove inspection covers, screws and gaskets from each side of motor.
2. Push in spring clip to release its hooks from brush holder. Pull out clip. See Fig 1.
3. Loosen terminal screw. Pull away brush lead, being careful motor lead terminal remains in place. Remove and discard brush and spring. See Fig 2.
4. Inspect commutator for excessive pitting, burning or gouging. Black color on commutator is normal. Have commutator resurfaced by qualified motor repair shop if brushes wear too quickly.
5. Repeat for other side.

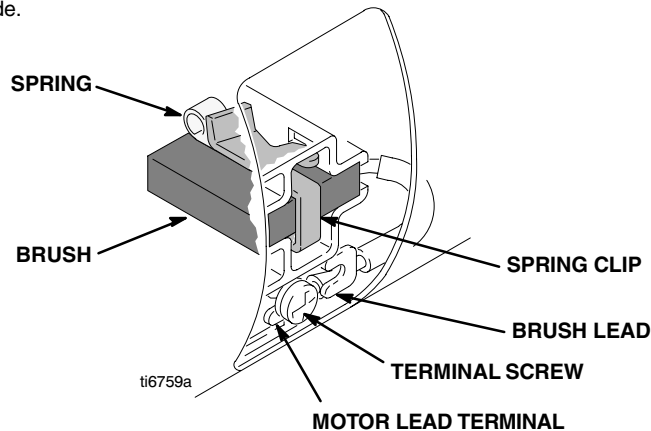


Fig 2

Reassembly

⚠ CAUTION

When installing brushes, follow steps carefully. Improper installation damages parts beyond use.

1. Install new brush so lead is in long slot of holder. Slide terminal under terminal screw washer. Ensure motor lead is still connected at screw. Tighten screw. See Fig 4.
2. Place spring on as shown in Fig 3. Spring clip will damage spring if spring is installed backward.
3. Install spring clip and push down until its hooks catch short slots in housing. See Fig 4. Incorrect installation may jam clip.
4. Repeat for other side.

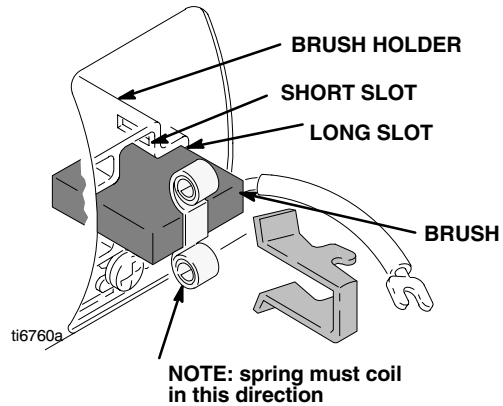


Fig 3

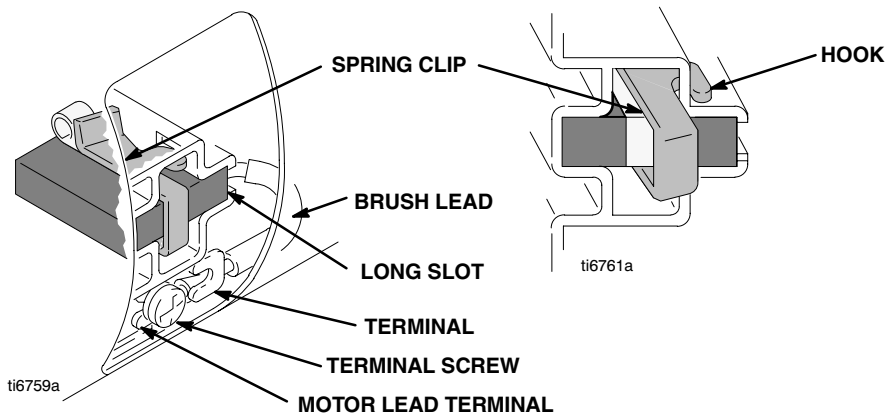


Fig 4

5. **Test brushes:** With ON/OFF switch OFF, turn pressure control knob counterclockwise to minimum pressure. Plug in sprayer. Turn ON/OFF switch ON. Slowly increase pressure until motor is at full speed. Inspect brush and commutator contact area for excessive arcing. Arcs should not "trail" or circle around commutator surface.

⚠ WARNING

To reduce risk of electric shock and serious bodily injury, DO NOT touch brushes, leads, springs or brush holders while sprayer is plugged in.

⚠ CAUTION

To avoid damaging displacement pump, DO NOT run sprayer dry for more than 30 seconds while checking brushes.

6. **Test brushes:** With ON/OFF switch OFF, turn pressure control knob counterclockwise to minimum pressure. Plug in sprayer.

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