

INSTRUCTIONS-PARTS LIST



308-070

Rev. B
Supersedes A

This manual contains IMPORTANT
WARNINGS and INSTRUCTIONS
READ AND RETAIN FOR REFERENCE

ES ON/OFF VALVE CONVERSION KIT 223-976

For PRO3500HC™, PRO3500SC™, PRO3500WB™, and PRO4500SC™ Electrostatic Guns

This kit converts the gun's ES ON/OFF valve to a constant ON setting, ensuring that an electrostatic charge will be present whenever the gun is triggered. The ball valve included with the kit allows all air to the gun to be shut off for flushing or pressure relief.

NOTE: This kit has not been tested by the Canadian Standards Association, Factory Mutual, or Physikalisch-Technische Bundesanstalt. Installing this kit to certified or approved electrostatic system voids previous CSA certification, FM and/or PTB approval.

INSTALLATION

WARNING

Pressure Relief Procedure

To reduce the risk of serious bodily injury, including splashing in the eyes or on the skin, injury from moving parts or electrostatic shock, always follow this procedure when shutting off the system, when checking or servicing any part of the spray system, when installing, cleaning or changing fluid nozzles, and whenever you stop spraying.

1. Turn off the electrostatics by closing the ball valve (2) included with the kit. See Fig 2.
2. **3500WB Gun Only:** Discharge the electrical charge.
3. Turn off the air and fluid supply to the gun.
4. Trigger the gun into a grounded metal waste container to relieve fluid pressure.
5. Open the pump drain valve, having a waste container ready to catch the drainage.
6. Leave the pump drain valve open until you are ready to spray again.

1. Loosen the set screw (A) with the 2 mm hex key provided with the gun. Remove the lever (B) from the valve. See Fig 1.

WARNING

To reduce the risk of eye injury, **BE SURE** to wear safety glasses when removing or installing the retaining ring (C) as the retaining ring could slip off the tool when compressed.

2. Use internal snap ring pliers to remove the retaining ring (C) from the handle. Align the holes in the retaining ring with the flat on the spacer (D) to ease assembly and disassembly.
3. Remove the valve body (F) from the handle; be careful not to drop the regulator disk (G) and spacer (D).

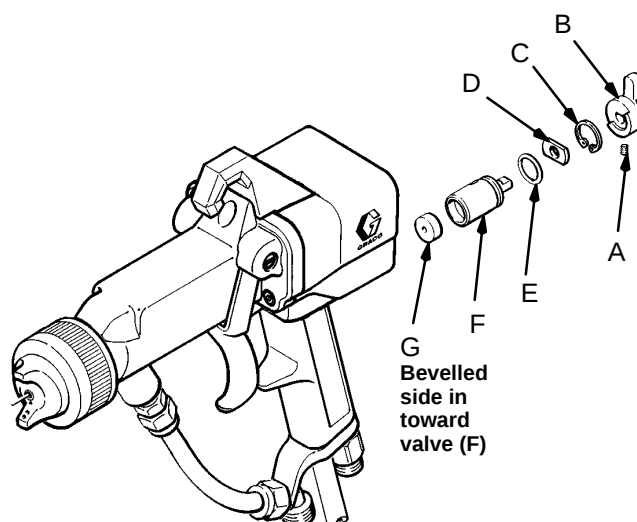


Fig 1

INSTALLATION

- Install the regulator disk (G) in the new valve (3), with its bevelled side facing in toward the valve.

CAUTION

BE SURE the regulator disk (G) is installed correctly. A missing or incorrectly installed regulator disc can cause severe damage to the power supply.

- Lubricate the o-ring (E) with petroleum jelly. Install the new valve (3) with the regulator disc (G) and o-ring (E) into the gun handle. Install the spacer (D) on the valve.
- Install the retaining ring (C) into the groove in the handle. Install the cap (1) supplied with the kit and tighten the new set screw (5).
- Install the ball valve (2) supplied with the kit as shown in Fig 2.
- Connect the Graco Electrically Conductive Air Supply Hose (H) to the ball valve (2).

WARNING

To reduce the risk of electrostatic shock or other serious bodily injury, the gun air supply hose must be electrically connected to a true earth ground. **Use Only Graco Electrically Conductive Air Supply Hose.** See the Accessories section in your gun instruction manual.

- Check the electrical grounding as instructed in your gun instruction manual.

WARNING

To reduce the risk of fire, explosion, or serious bodily injury, including electric shock, always turn off the electrostatics when flushing or relieving pressure by closing the air line ball valve (2), included with the kit.

SERVICE INFORMATION

Assembly Changed	Status	Ref No.	Part No.	Name
Valve Kit	OLD	2	223-975	Valve
	NEW	2	224-754	Valve
	DELETED	4	224-067	Hose

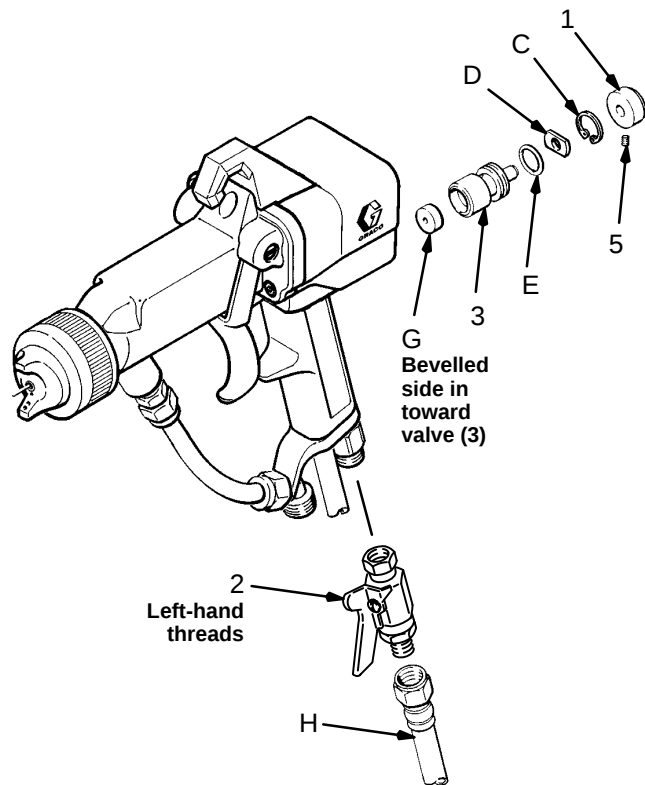


Fig 2

PARTS LIST

REF NO.	PART NO.	DESCRIPTION	QTY
1	186-613	CAP	1
2	224-754	VALVE, ball; 1/4 npsm; left-hand threads	1
3	186-750	VALVE, electrostatic	1
5	110-083	SCREW, set	1

Factory Branches: Atlanta, Chicago, Dallas, Detroit, Los Angeles, West Caldwell (N.J.)

Subsidiary and Affiliate Companies: Canada; England; Switzerland; France; Germany; Hong Kong; Japan; Korea

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