

Installation Instructions

309122 rev.E



Important Safety Instructions

Read all warnings and instructions in this manual.
Save these instructions.

This manual contains kit
installation instructions only.

Pump and Gear/Yoke Replacement Kits for **MAGNUM**TM XR Series Airless Sprayers by GRACO

XR Pump Replacement Kit 243533 and 245053

3000 psi (21 MPa, 207 bar)

XR Gear/Yoke Replacement Kit 243230 and 245062

To find your local
Graco/MAGNUM authorized
service center

- Call us at 1-888-541-9788
- Visit our website at www.graco.com

WARNING

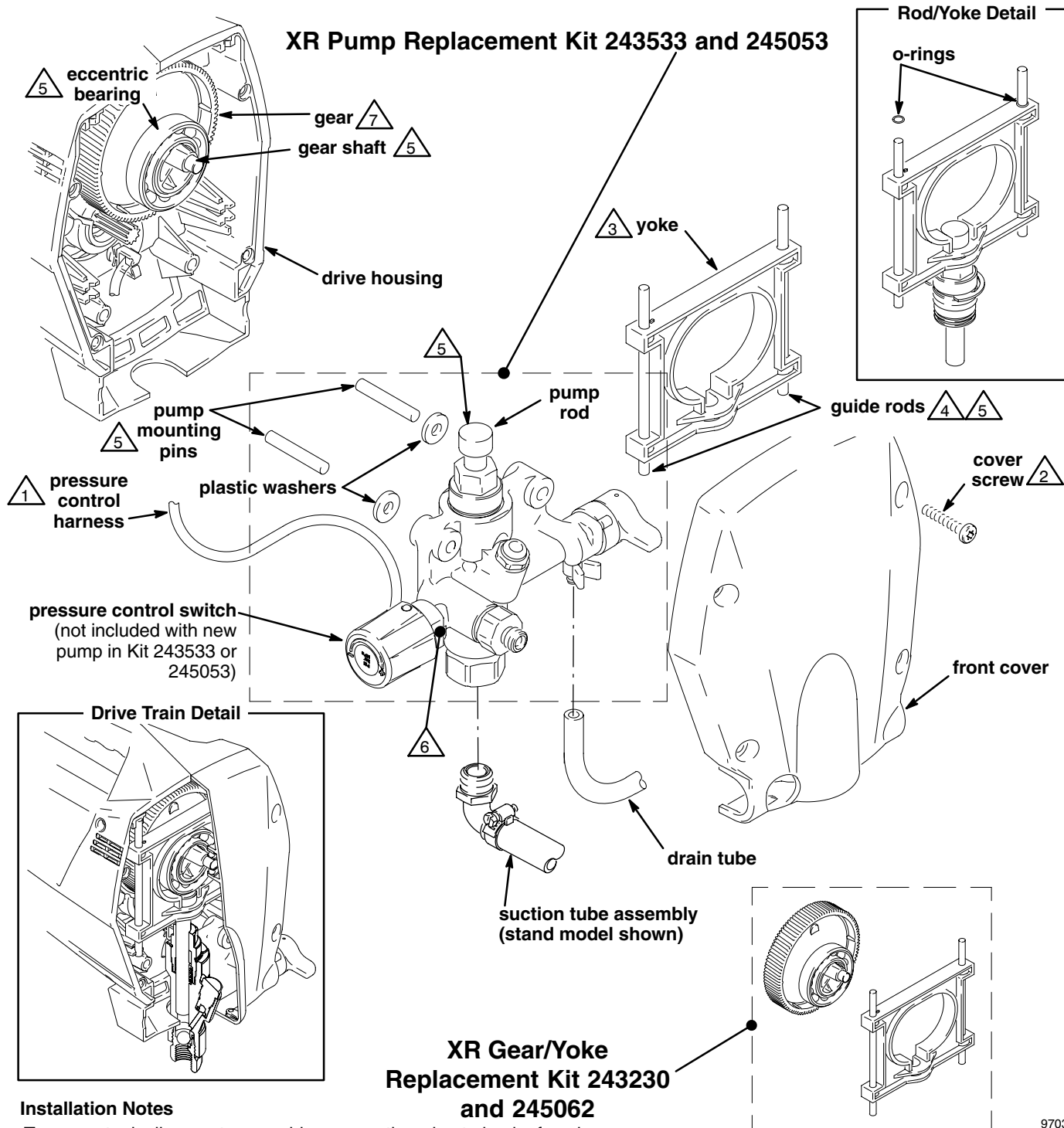
To reduce the risk of fluid injection or splashing in the eyes or on the skin, relieve all fluid pressure in the system before you install, remove, or replace any parts. See the **Pressure Relief Procedure** in the Operating Instructions manual 309225.



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Installation Notes

To prevent misalignment, assemble sprayer tipped onto back of enclosure.

- 1 Take care to not pinch harness between pump and any part of drive housing or between front cover and drive housing.
- 2 For best cover alignment, tighten lower two cover screws first, then top two. Torque screws to 70 to 80 in-lb (8 to 9 N•m).
- 3 For yoke installation, eccentric bearing on gear must touch top of pump rod. Turn gear to move eccentric bearing to proper height.
- 4 If yoke guide rods drop out of position during assembly, damage will occur when cover is tightened. Always check position of guide rods before tightening cover.
- 5 Apply light coat of grease.
- 6 Apply one or two drops of thread locking adhesive (included in Kit 245533) to threads of pressure control switch. Torque to 180 to 210 in-lb (20 to 24 N•m).
- 7 Use applicator brush to spread entire contents of grease packet (included with kit 243533) into gear teeth. Grease must be worked into roots of gear teeth to ensure long life.

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XR Pump Replacement Kit 243533 and 245053

⚠ CAUTION

When repairing or cleaning the pump, never submerge the pump in water or allow fluid to enter the pressure control.

Disassembly

1. Thoroughly flush pump, if possible.
2. **Unplug electrical cord, and relieve pressure.**
3. Remove suction tube assembly and drain tube.
4. Remove the four cover screws and front cover.
5. Remove yoke and guide rods.
6. Disconnect pressure control harness from control board connector at back of drive housing. **Using fingernail or tip of small, flat-blade screwdriver, press tab on right side of connector to release.**
7. Remove pump and the two mounting pins from drive housing.
8. Place pump on workbench or in vise.
9. Remove pressure control switch from pump.

Installation

- Read all **Installation Notes** in service drawing on facing page.
 - To prevent misalignment, assemble sprayer tipped onto back of enclosure.
1. Apply one or two drops of thread locking adhesive (included in Kit 243533) to threads of pressure control switch.
 2. Screw pressure control switch into new pump, and torque to 140–160 in-lb (16 to 18 N•m). **Do not overtighten, or damage could occur.**
 3. Remove gear, and use applicator brush to spread entire contents of grease packet (included with Kit 243533) into gear teeth. Grease must be worked into roots of gear teeth to ensure long life. Reinstall gear.
 4. Route pressure control harness behind pump through retention clip, and connect to control board connector at back of drive housing (connect with tab to the right).
 5. Install pump on mounting pins. **Make sure the plastic washers are between drive housing and pump.**
 6. Install yoke with rod cap in slot of yoke, as shown in **Rod/Yoke Detail** on facing page.
 7. Check final assembly against **Drive Train Detail** on facing page.
 8. Install front cover and cover screws.
 9. Apply 119400 to threads of suction tube assembly. Install suction tube assembly and drain tube on new pump.

XR Gear/Yoke Replacement Kit 243230 and 245062

Disassembly

1. **Unplug electrical cord, and relieve pressure.**
2. Remove the four cover screws and front cover.
3. Remove yoke and guide rods.
4. Carefully slide pump forward 3/8 in. (10 mm) on its mounting pins, and remove gear. **You do not have to remove the pump to remove the gear.**

Installation

- Read all **Installation Notes** in service drawing on facing page.
 - For easier parts placement, tip sprayer backwards during installation.
1. Remove gear, and use applicator brush to spread entire contents of grease packet (included with Kit 243230) into gear teeth of new gear. Grease must be worked into roots of gear teeth to ensure long life. Reinstall gear.
 2. Carefully position new gear in drive housing, and slide pump back into place.
 3. Do Steps 6 through 8 in **Installation** above.

*All written and visual data contained in this document reflect the latest product information available at the time of publication.
Graco reserves the right to make changes at any time without notice.*

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