

Komatsu HD465-8 and HD605-8 Installation Instructions



Instructions for installing a Graco automatic lubrication system on the Komatsu HD465-8 and HD605-8.

Part No. 17P600

Maximum System Working Pressure: 2750 psi (18.96 MPa, 189.6 bar)



Important Safety Information

Read all warnings and instructions in all Graco related component manuals and all Komatsu equipment manuals. Save all instructions.

Related Graco Component Manuals*

Manual No.	Manual Title
3A3956	Dyna-Star® HP Pump System
3A2960	GLC2200 Controller
308953	Injectors

*Refer to these instruction manuals for additional information related to the installation and operation of system components.

! WARNING



FLUID INJECTION HAZARD

Fluid leaks from incorrectly installed or ruptured components, and/or failure to verify the components are properly installed and tested, can result in serious injury such as fluid spraying in the eyes or on skin and fluid injection, or equipment damage. Installation must be done by a qualified professional or Komatsu certified technician and tested prior to use.

The information contained in this document is only a recommendation for an automatic lubrication system and is not intended to replace the installation and maintenance instructions provided by the original equipment manufacturer.

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Installation Checklist

The following checklist is provided as a tool to ensure all installation procedures are completed.

Completed	Description	Page
	Walk around the truck; use a grease gun to verify that all lube points receive grease.	6
	Grease all zerks, before removal	6
	Remove zerks and Komatsu extensions.	6
	Install grease point fittings	7
	Assemble Injectors	8
	Install remote fill	13
	Assemble the pump and fittings	14
	Install and route pump power cable	16
	Mount GLC2200 Controller bracket assembly	20
	GLC2200 Controller cable routing	23
	Wire the GLC2200 Controller	25
	Wire the pump to the GLC2200 Controller	27
	Program GLC2200 Controller	31
	Install the main feed line	34
	Cut hoses to length, apply hose wraps and fittings	34
	Hose Routing between Injectors and Grease Points. DO NOT CONNECT	37
	Install P-clamps	46
	Fill the pump reservoir with grease; purge the main feed line	48
	Run test program; verify all connections are tight; verify all points are receiving lubricant	51

Recommended Tools and Supplies

Tool	Size/Description	
	US	Metric
Combination wrench*	1/4 in. - 3/4 in.	6 mm - 20 mm
Socket set, standard and deep well with ratchet*	3/8 in. - 3/4 in.	9.5 mm - 20 mm
Screwdrivers: standard and Phillips	1 short; 1 long	
Adjustable wrench	1 small; 1 medium	
Impact wrench		
High speed drill (corded or cordless)		
Drill bit - steel, high quality	5/16 in., 11/16 in.	
Center punch	fine point	
Pipe taper tap	1/8 npt	
Hammer		
Angle grinder		
Grinding disc	Heavy grade grinding disc	
Flap disc	60 - 80 grit	
Cutoff disc	High quality disc	
Cutting blade / knife	Razor blade cutting tool	
Standard pliers		
Needle nose pliers		
Side cut pliers (diagonal cutters)		
Slip joint pliers		
Locking pliers	Small or medium	
Electrician's wire stripper / crimper	General duty wire stripper / crimper	
Soldering iron	30 watt minimum	
Electrical solder		
Soldering flux		
Shrink tubing	Various sizes	
Electrical tape	Black, small roll	
Thread sealant	Liquid thread sealant such as Loctite® 656	
Multi-tester / voltmeter	Must test DC/AC/Ohms	
Electrical connectors	Ring connectors (10, 18 and 24 gauge)	
Tape measure	Standard / metric	
Komatsu primer and paint	Color should match the Komatsu equipment	
Documentation / writing implements	Small note pad, pen, pencil, marker	

*Both US and Metric sizes of these tools are recommended.

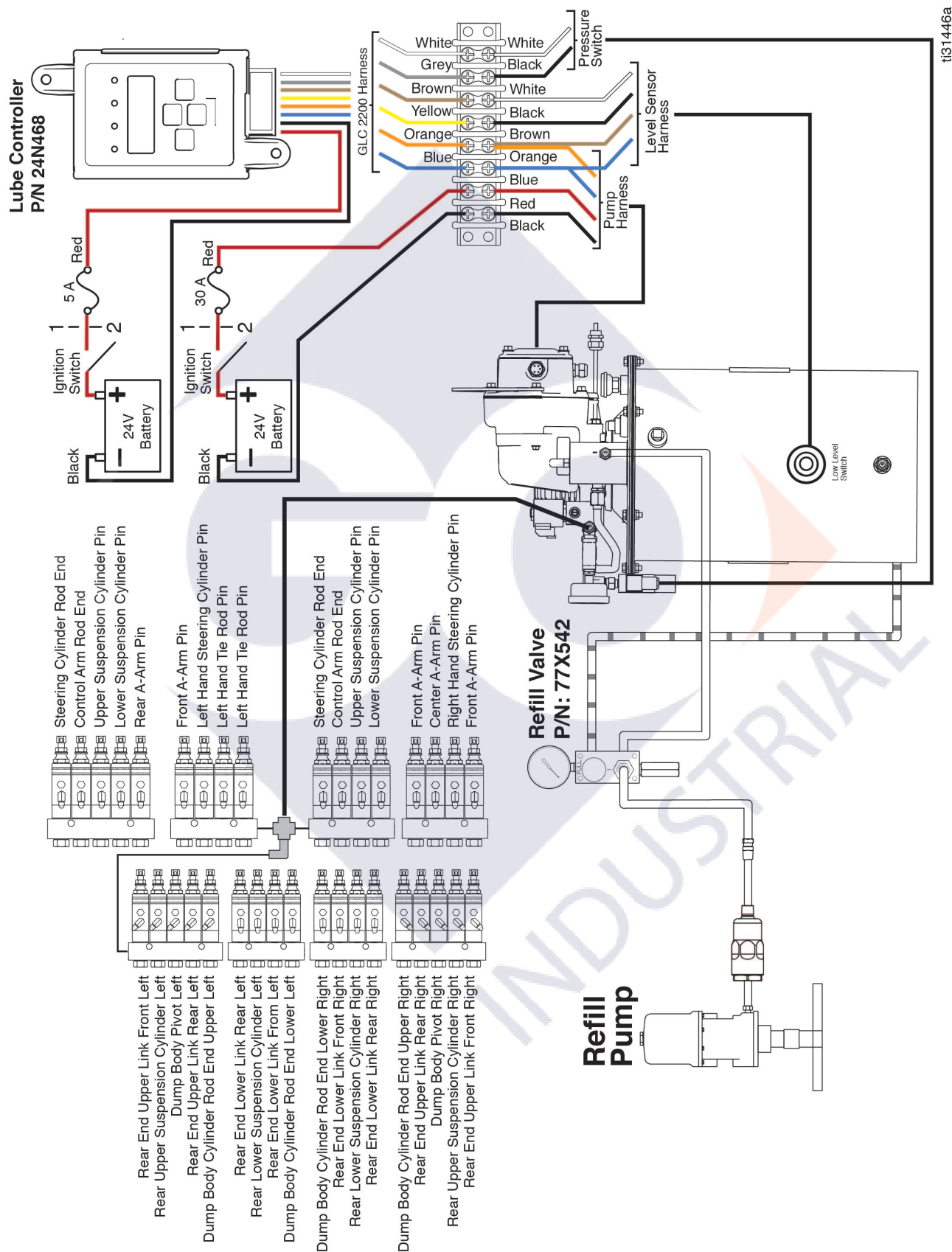
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All other Trademarks used herein are the property of their respective owners.

Installation Notes

- Do not use PTFE tape on fitting threads. Liquid pipe sealant is recommended for use in lubrication systems to eliminate the potential for contamination. If you must use PTFE tape, always skip the first two threads on the fitting.
- Refer to the Installation Checklist provided on page 3 to ensure all installation procedures have been completed.
- Prime and paint all bare metal surfaces prior to installation with matching Komatsu primer and paint.

Typical Installation



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NOTE: Photographs may include optional equipment.

Test the System

- Be sure the EDS pump reservoir is filled.
- All supply lines are connected securely (double check all primary hose connections).
- Verify all grease point fittings and feed hoses are connected and tight.
- Injectors and feed lines are all filled with grease and purged of air.
- Turn on the battery disconnect to the machine to restore power (FIG. 147).

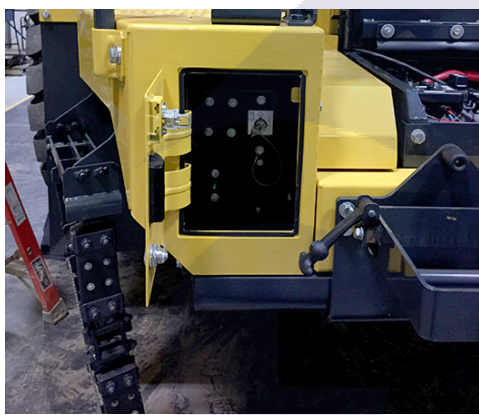


FIG. 147

- Verify the GLC2200 controller has power by keying on the truck to the ACC position.
- Ensure programming has taken place and that the GLC2200 is ready to engage a lube cycle.
- Press the manual run button to engage a lube event.
- Inspect the pressure gauge and ensure the pump reaches 3500 psi before the pressure switch engages (FIG. 148).

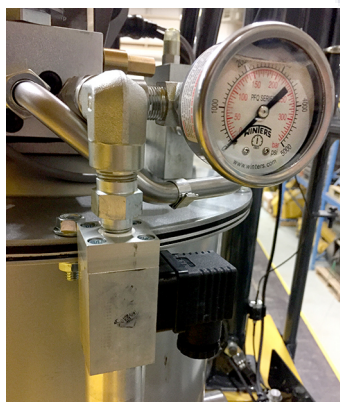


FIG. 148

- a. If the pump stops before reaching 3500 psi or it stops after 3500 psi, use an Allen Wrench and adjust the setting of the pressure switch. Tightening the spring will increase the pressure, Loosening the spring will reduce the pressure.
 - b. Run several more lube events and walk around the machine to inspect the pump, injectors, hoses and fittings to ensure there are no leaks.
 - c. Tighten or adjust any hoses or fittings that are leaking and continue to run additional lube events.
- Move the haul truck into an open location where dump body operation is safe and clear.
 - Turn the tires left and right to ensure proper clearances and to confirm there are no snags or tight areas on the hoses and injectors.
 - Cycle the dump body up and down slowly to ensure there are no snags from hoses and that there are no pinch points on the hoses for the dump body cylinders nor the dump body pivot pins (FIG. 149).



FIG. 149

- After the inspection is completed, position the haul truck in a clear and safe location approved by the owner/operator, disengage the battery disconnect, and perform any final housekeeping activities.

Graco Information



For additional information about these Graco products; including Warnings, Troubleshooting, and Technical Data refer to the Graco instruction manuals included with the equipment or visit the Graco website at www.graco.com to download the latest versions of Graco instruction manuals.