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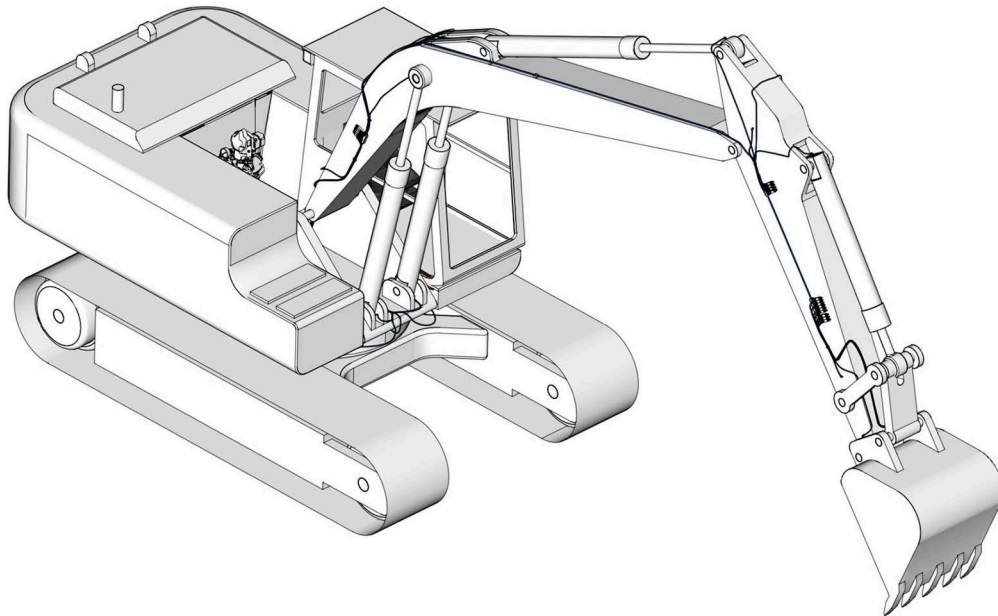
Mobile Lubrication Library

JCB[®] Excavator Centralized Lubrication System



Graco automatic lubrication system for the JCB Excavator Models JS300 to JS370.






Maximum System Working Pressure: 3500 psi (24.13 MPa, 241.3 bar)



Important Safety Information

Before beginning any installation, read all warnings and instructions in all related Graco component manuals (page 25) and all related Original Equipment Manufacturer (OEM) manuals, including the vehicle's Operation and Maintenance Manual (OMM). Save all instructions.

The lubrication system design described in this manual is based upon representative equipment models. Models may vary slightly depending on series and year. Additional hoses, fittings, and crossover tubes for injectors are supplied with the kits to modify the system based on your model's specific configuration.

 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.			

NOTICE
Welding can damage electronics and the equipment's structure. To help prevent equipment damage caused by welding:
<ul style="list-style-type: none">• Disconnect the vehicle battery before welding.• Follow all welding guidelines in the OEM manuals, including the OEM service manuals.• Only weld in locations specifically approved by the OEM. Consult OEM dealership for information and recommendations.• Perform all welding in accordance with American Welding Standard (AWS) standards.

The installation instructions contained in this manual are only a recommendation for an automatic lubrication system. They are not intended to replace any instructions provided in the OEM manuals. Always refer to the OEM's manuals for details on lubrication intervals.

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Recommended Tools and Supplies

Tool	Size/Description	
	US	Metric
Combination wrench*	1/4 in. - 3/4 in.	6 mm - 20 mm
Socket, 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	
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	Rubber handle	
Needle nose pliers	Rubber handle	
Side cut pliers (diagonal cutters)	Rubber handle	
Slip joint pliers	Rubber handle	
Locking pliers	Small or medium	
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® 565	
Multimeter / voltmeter	Must test DC/AC/Ohms	
Electrical connectors	Ring connectors (14 -18 gauge)	
Tape measure	Standard / metric	
Primer and paint	Color should match the equipment	
Documentation / writing implements	Small note pad, pen, pencil, marker	

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

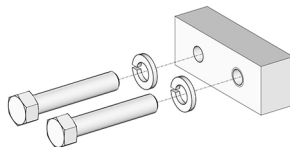
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NOTE: When any of the following images are shown in the instructions it means that these components should be used during the installation to secure or protect parts.



P-Clamp



Weld Block and Bolts



Anchor Block



Zip Tie

Installation

Disconnect battery before installing the lubrication system. Inspect the equipment and verify that the system design includes all lubrication points and meets the manufacturer requirements.

Zerks and Grease Point Fittings

1. Grease all zerk fittings (FIG. 1).

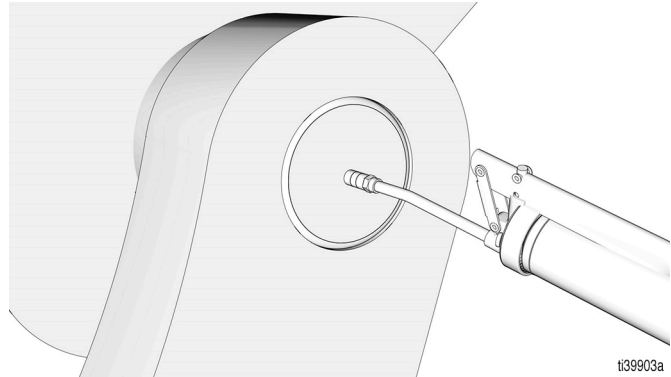


FIG. 1

2. Remove all grease zerks (FIG. 2).

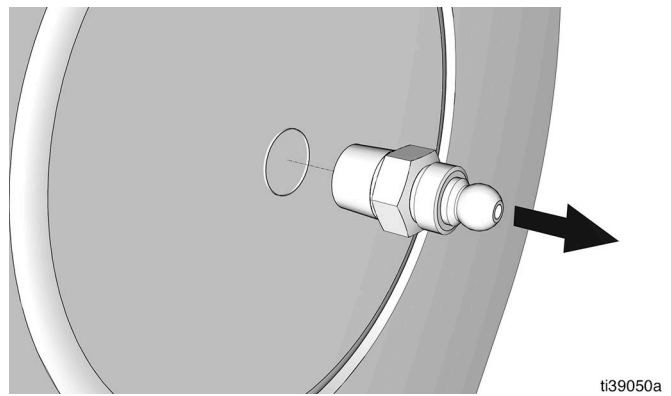


FIG. 2

3. The kit includes a variety of extenders, elbows, straight compression fittings, and elbow compression fittings (FIG. 3). Mix and match fittings and components supplied in the kit to replace the zerks.
4. Apply pipe sealant to fittings. To avoid contamination do not use PTFE tape on the fitting threads. If you must use PTFE tape, ensure that the first thread on the fitting is not taped and that the tape is applied precisely.

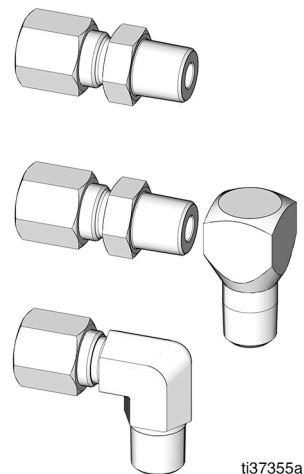


FIG. 3

System Layout and Lubrication Points

JCB 20 Point Excavator Models JS300 to JS370

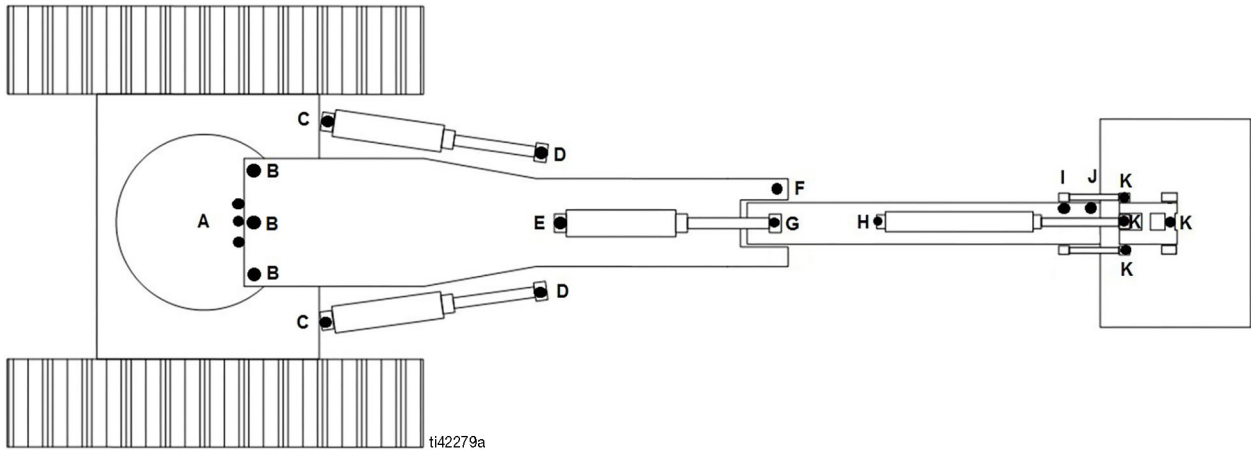
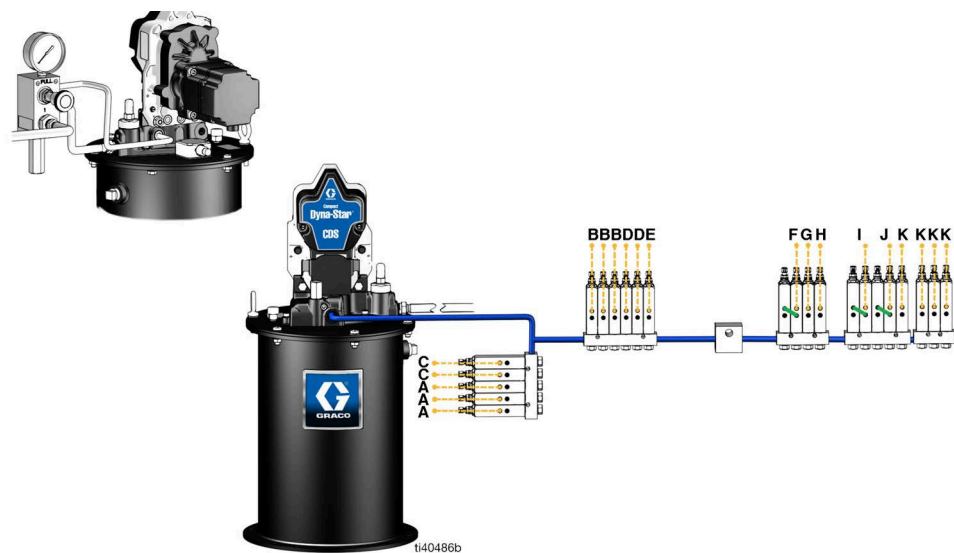


FIG. 4

Lube Point	Description	Injector Settings*
A	Swing Gear	8
B	Boom Foot Pin	4
C	Boom Cylinder Foot Pin	2
D	Boom Cylinder Rod Pin	2
E	Stick Cylinder Foot Pin	2
F	Boom/Stick Pin	6
G	Stick Cylinder Rod Pin	2
H	Bucket Cylinder Foot Pin	0
I	Bucket Link Pin	3
J	Bucket Pin	3
K	H Link	0

*Number of turns from maximum output



Compact Dyna-Star® Pump and Wiring Harness Assembly

Assemble and install the pump fittings (Auto-Fill Shut Off [AFSO] fittings optional) and electrical harness on the pump (FIG. 5) using the Graco Compact Dyna-Star Electric Pump manual for assembly instructions. A complete list of related Graco instruction manuals is provided on page 25.

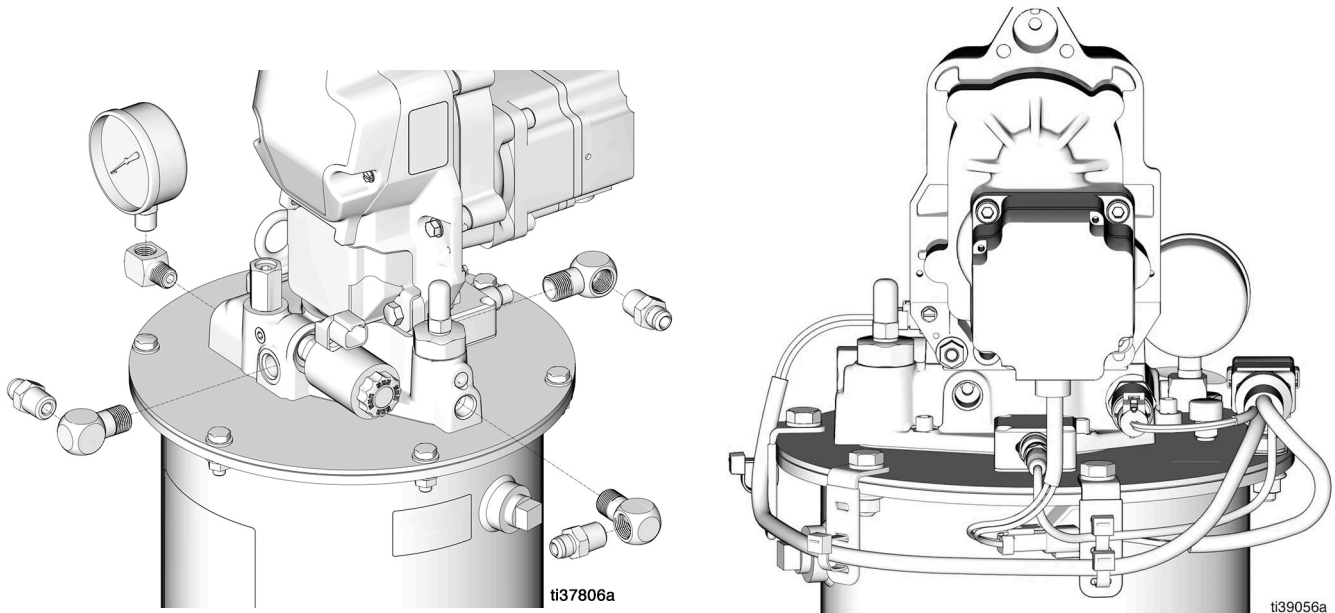


FIG. 5

Assemble GL-1™ X Injectors

The GL-1 X injector assembly (FIG. 6), is provided as a guide. Assemble the parts, as needed, to best accommodate the installation using the Graco GL-1 X, GL-1 XL Injectors manual for assembly instructions. A complete list of related Graco instruction manuals is provided on page 25.

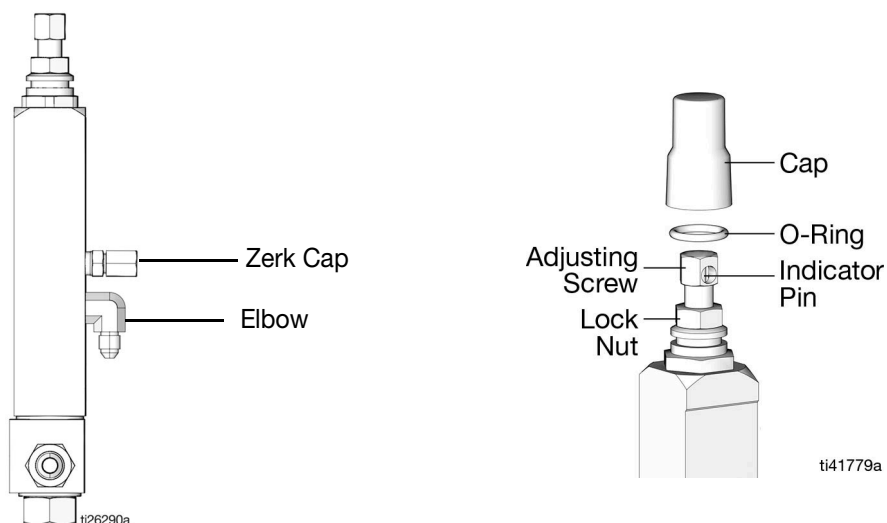


FIG. 6

Assemble Injector Manifolds and Remote Fill Valve (if equipped)

The injector manifold assembly and the remote fill valve assembly (FIG. 7), are provided as guides. Assemble the injector parts, as needed, to best accommodate the installation using the Graco GL-1 X, GL-1 XL Injectors manual for installation instructions. Install the Remote Fill Valve using the Graco Fill Valve manual instructions. A complete list of related Graco instruction manuals is provided on page 25.

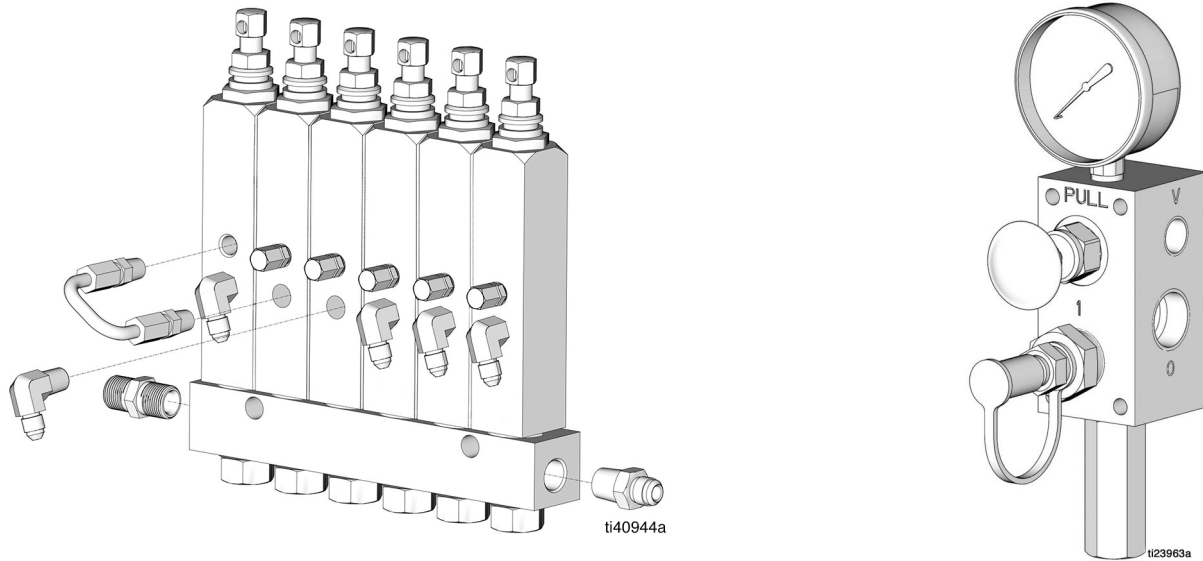


FIG. 7

Install GL-1 X Injectors

Use supplied weld block and bolts to install the GL-1 X injectors on the equipment using the Graco GL-1 X, GL-1 XL Injectors manual for installation instructions. Refer to FIG. 8 - FIG. 11 for recommended installation locations for the injectors.

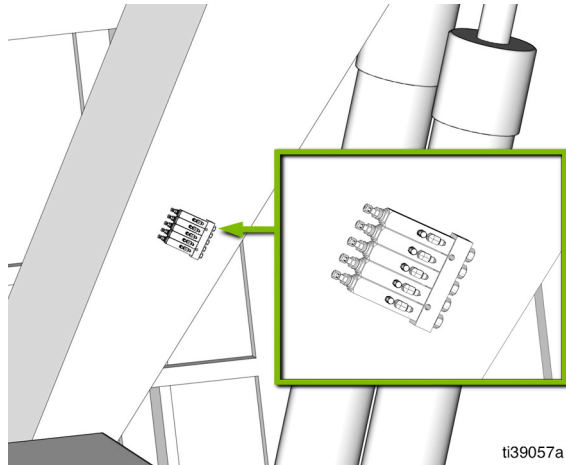
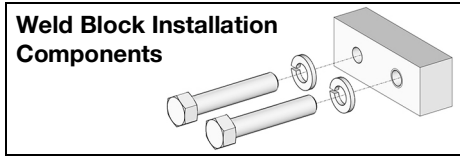


FIG. 8: Side of Boom

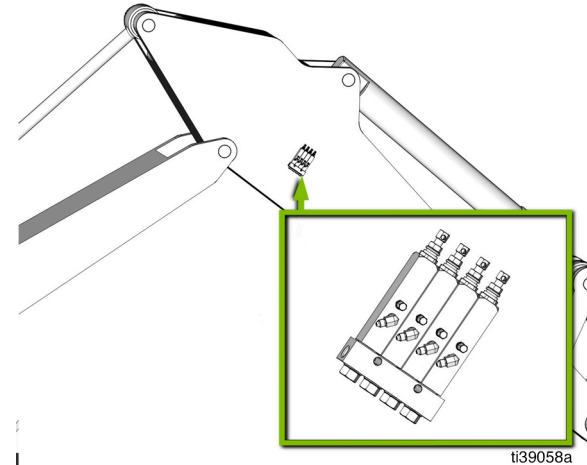
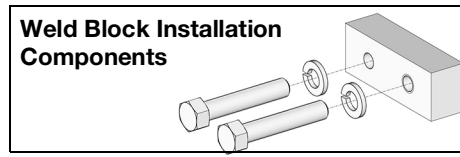


FIG. 10: Side of Stick (Upper)

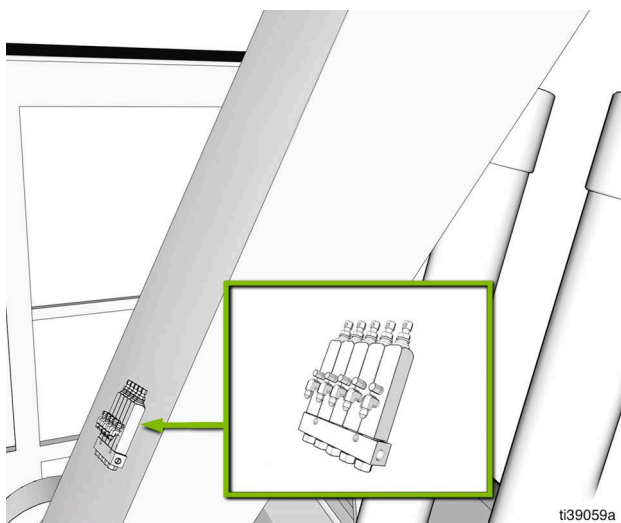
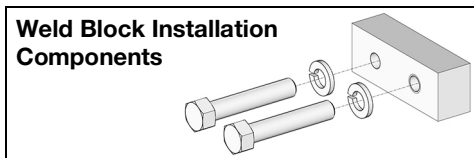


FIG. 9: Top of Boom

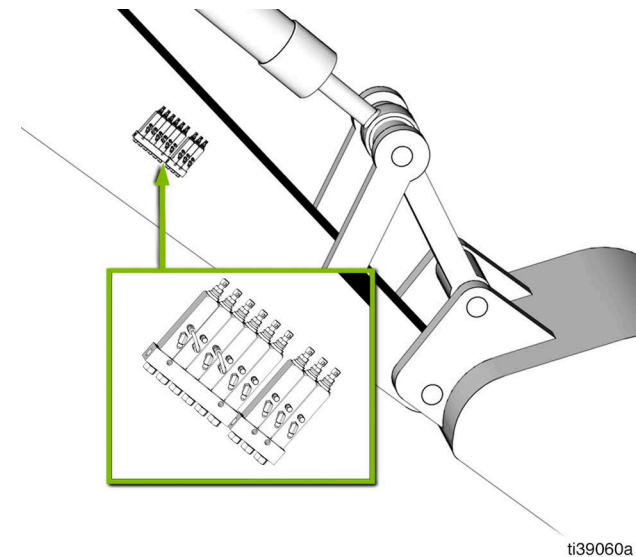
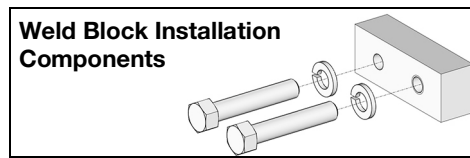


FIG. 11: Side of Stick (Lower)

Assemble Hose Fittings

The hoses included in the kit require assembly prior to installation. The two piece connection fittings must be installed on the end of the hose.

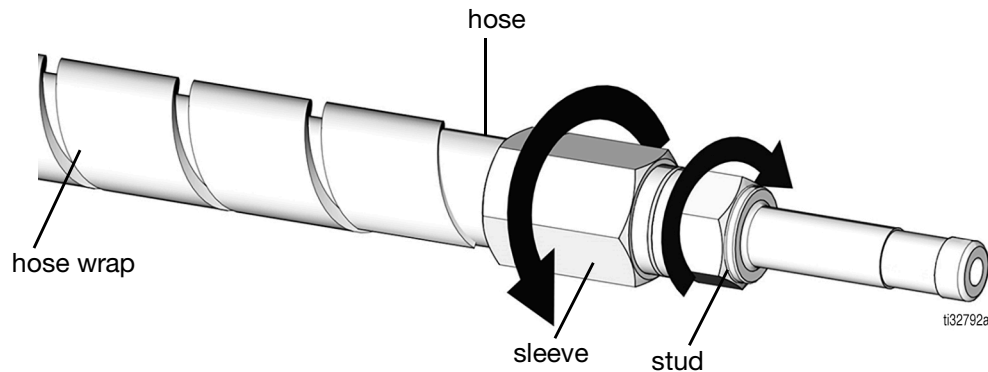


FIG. 12

NOTE: Steps 1-3 refer to FIG. 12.

1. Wrap or slide the hose wrap over the end of the cut-to-length hose until the entire length of the hose is encased in the hose wrap.

NOTE: Use hose wrap on the 8.6 mm hose, it is not needed on the 3/8 in. hose.

2. Trim the hose wrap, leaving approximately 1 in. of the hose end unwrapped.
3. Repeat Steps 1-2 for all hose assemblies.

For assembly instructions, see manual Instructions for Installing a Field Attachable/Reusable Hose Fitting manual, see **Related Manuals**, page 25.

Install Compact Dyna-Star Pump

NOTICE

Never install pump directly to the cab. Do not drill holes or weld on any part of the cab. Drilling or welding on the cab will likely void the cab certification for Roll Over Protective Structures (ROPS) and Falling Object Protective Structures (FOPS).

Install the pump in a protected area near the cab using the Graco Compact Dyna-Star Electric Pump manual for installation instructions. The installation location should have ample space around the pump to allow for the hoses, cables, and a relief valve.

- The deck plate that surrounds the cab is the preferred installation location (FIG. 13). The deck plate is a non-critical component and drilling through the deck plate is generally acceptable by most manufacturers. However, if this location is not acceptable due to durability or space constraints, identify an alternate location around the cab, such as below the ladder, in the engine compartment or on the frame.
- A custom pump mounting bracket may be required if the preferred or alternative locations (referenced above) are not acceptable for mounting the pump.

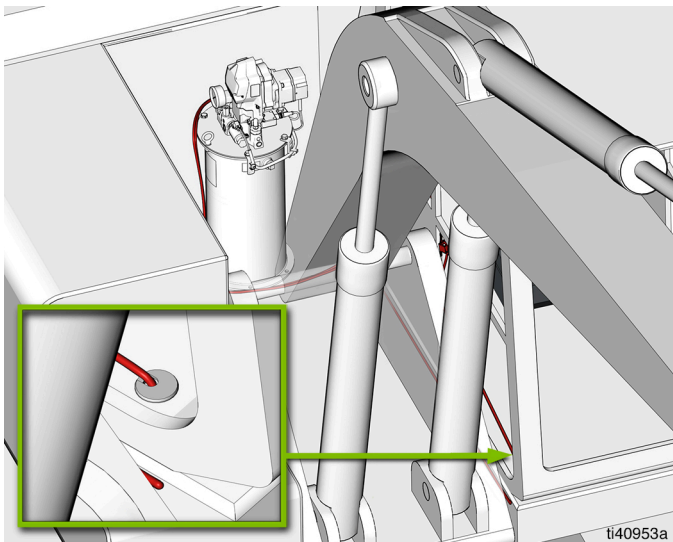


FIG. 13

Recommended Installation Components



Install Power Cable

1. Route the power cable from the pump through the body of the equipment and under the cab to protect it from the environment, and to aid in wiring into the cab.
2. Route the power cable into the cab through the rubber grommet located under the floor mat (FIG. 14).

NOTE:

- If the pump uses a GLC™ 2200 or GLC X controller, route the pump power cable into the cab, toward the fuse panel. See **Wiring Guidelines**, page 16 (FIG. 15).

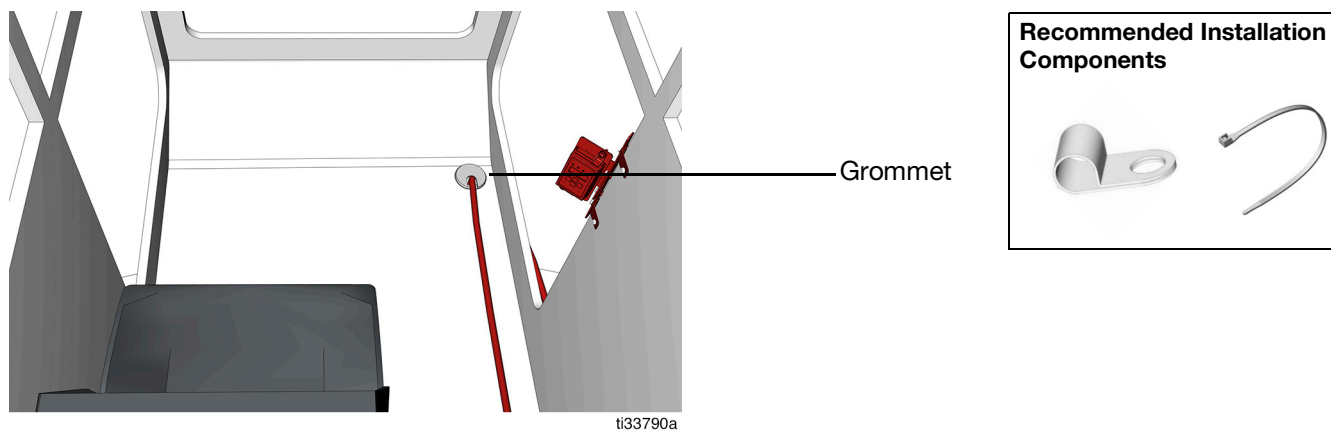


FIG. 14

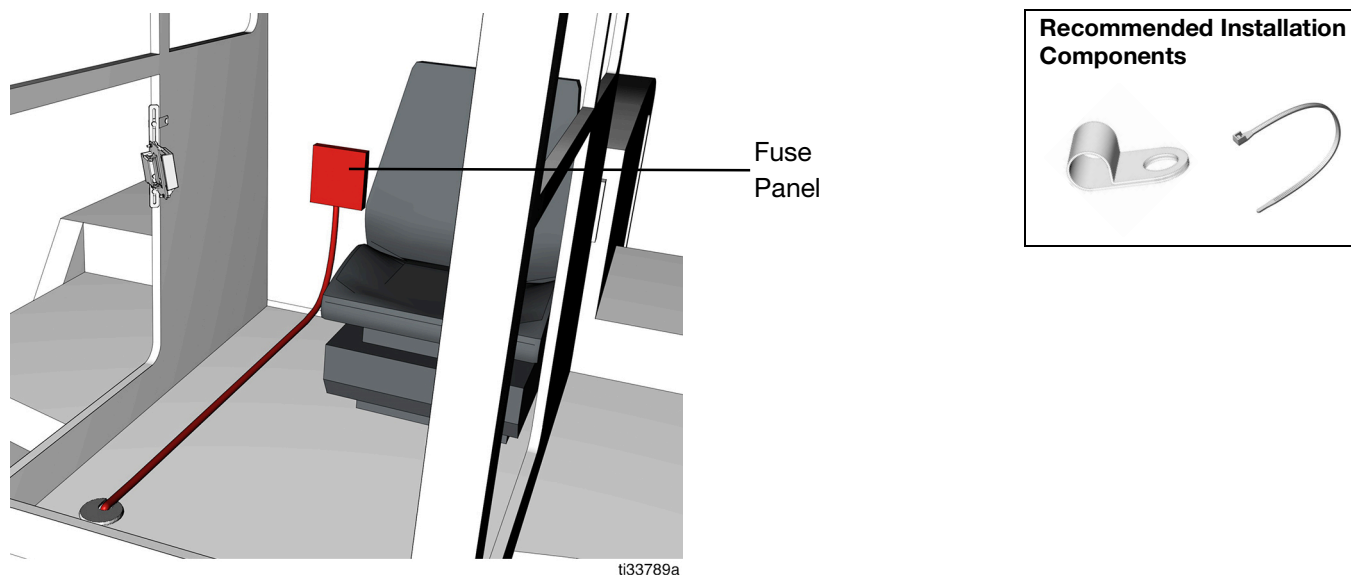


FIG. 15

Assemble Bracket and Install the GLC 2200 or GLC X Controller (if equipped)

Use the appropriate GLC controller manual for installation instructions.

NOTE: All parts included in the mounting bracket kit may not be required for the installation. The bracket assembly shown in FIG. 16 is provided as a guide. The bracket is designed to be assembled in several configurations. Assemble the parts, as needed, to best accommodate the installation.

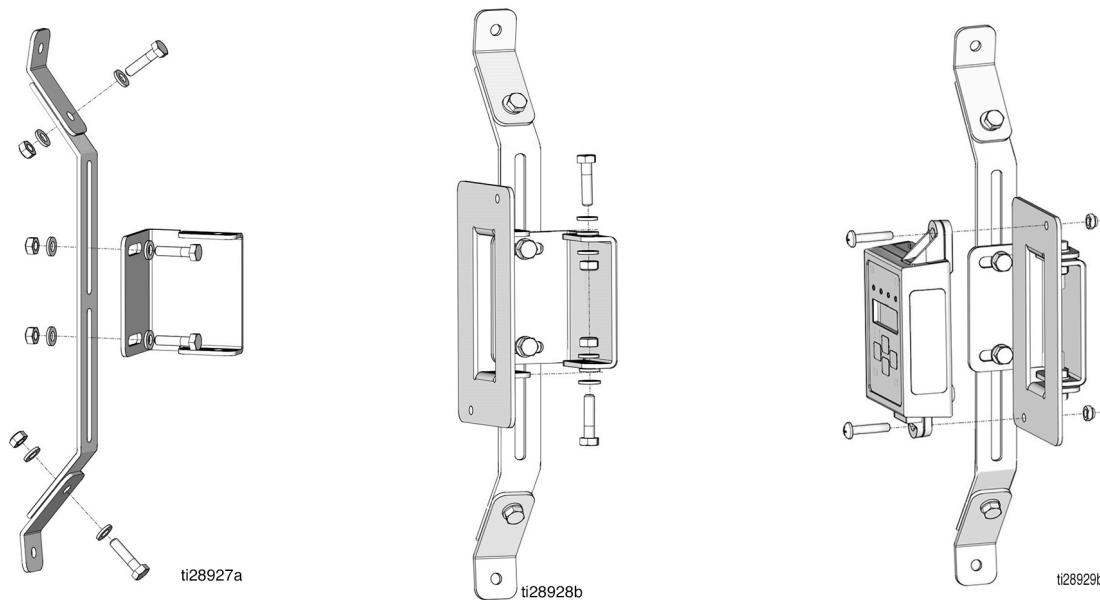


FIG. 16

1. Assemble the GLC 2200 or GLC X mounting bracket.

NOTE: FIG. 16 is only provided as a guide. Parts can be rotated to best suit the installation location and to provide optimal orientation for operator access inside the cab.

2. Attach the controller to the bracket using the hardware provided in the kit.
3. Install the bracket inside the cab using existing holes in the cab, and the hardware provided in the kit (FIG. 17).

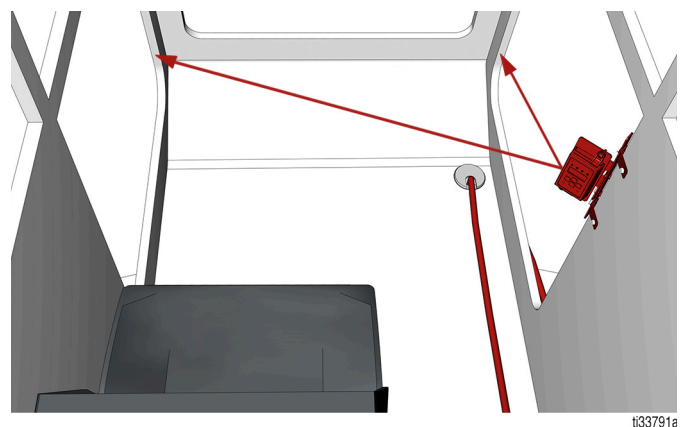


FIG. 17

NOTICE

Never install controller directly to the cab. Do not drill holes or weld on any part of the cab. Drilling or welding on the cab will likely void the cab certification for Roll Over Protective Structures (ROPS) and Falling Object Protective Structures (FOPS).

Hose Routing Guidelines

NOTICE

Never install injectors directly to the cab. Do not drill holes or weld on any part of the cab. Drilling or welding on the cab will likely void the cab certification for Roll Over Protective Structures (ROPS) and Falling Object Protective Structures (FOPS).

NOTE: Hose size 3/8 in. is for use on the main line, while hose size 8.6 mm is for use on secondary lube lines.

- Identify the internal and external pivot points to ensure proper hose lengths are used. If hoses are too short they will bind and eventually break. If hoses are too long, they can easily snag on external debris or be pinched in the equipment.
- Follow the existing hydraulic and electrical routing. This ensures that the lines are protected and routing is consistent with the OEM's existing hydraulic hose routing.
- Utilize existing grommets, supports or cut outs in the equipment frame for access points. Routing the hoses through these areas keeps the hoses inside of the equipment and provides protection. This also provides a cleaner and more professional looking installation.
- Install hoses to ensure they move with the equipment. Consider pivot, oscillation, extension, and pinch point areas on the equipment. Before cutting and securing hoses, have a qualified technician move the various parts of the equipment to ensure proper routing is achieved.
- Connect hoses to injectors.
- Use weld studs and p-clamps to secure hoses to the equipment. Use zip ties to secure the hoses together and to the equipment existing hydraulic hoses.
- If possible, fill hoses with grease prior to installation on the equipment.
- See FIG. 18 through FIG. 24 for hose routing examples.

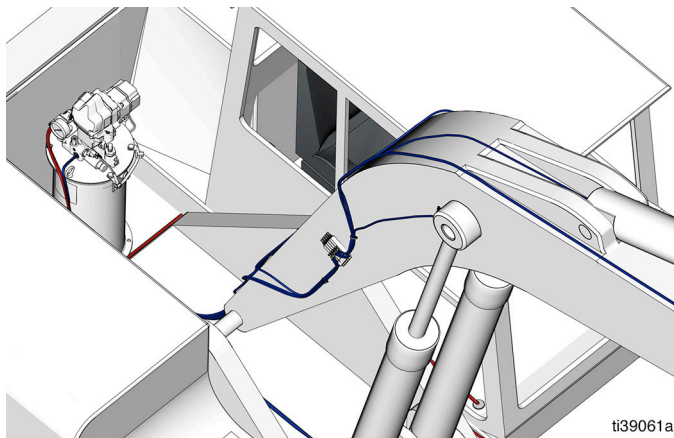
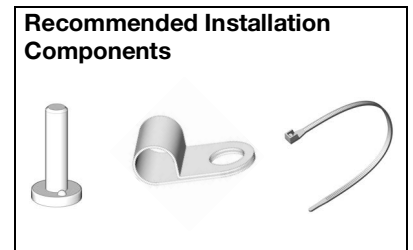


FIG. 18



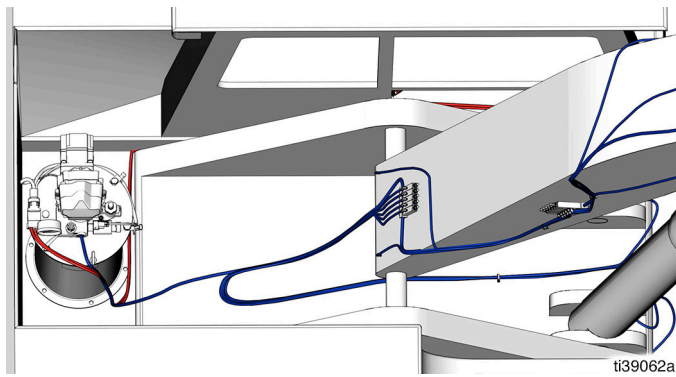


FIG. 19

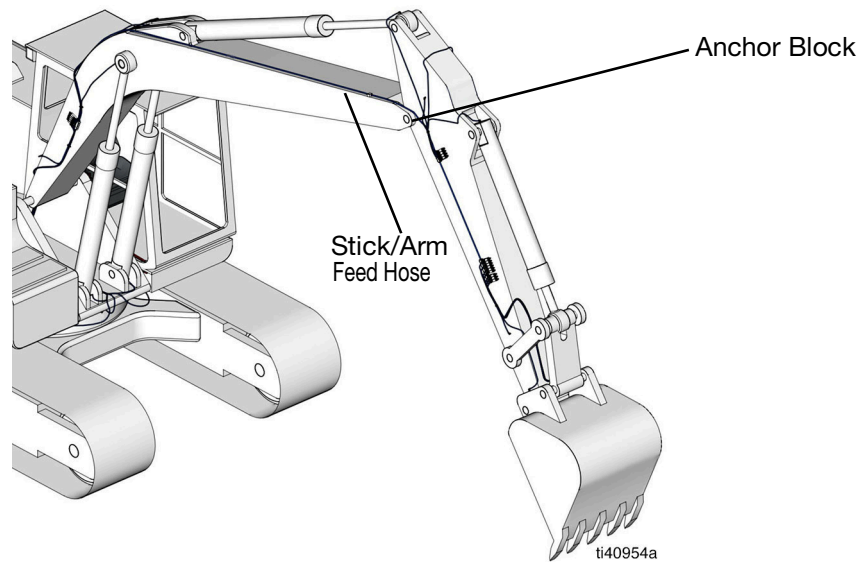


FIG. 20

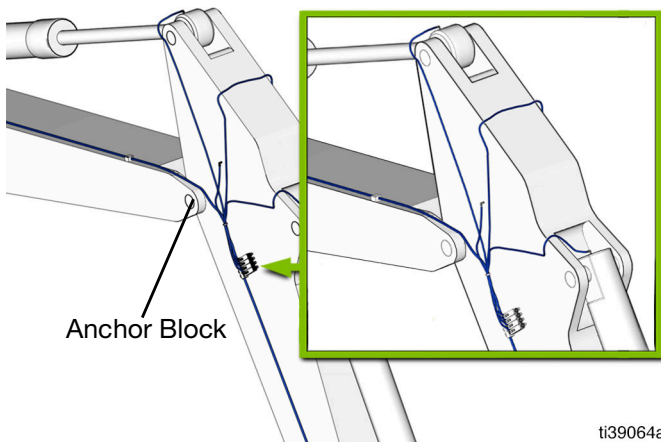


FIG. 21



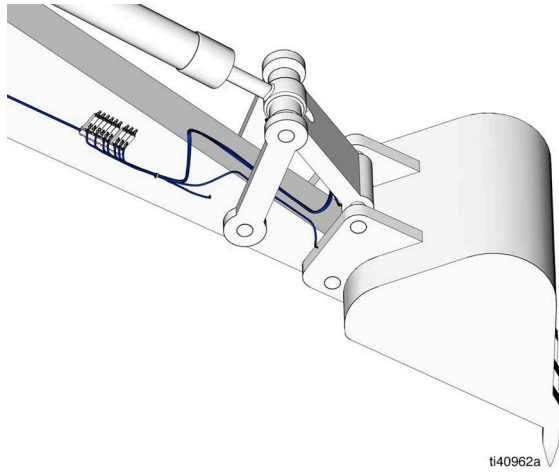


FIG. 22

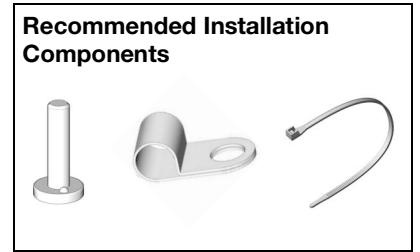
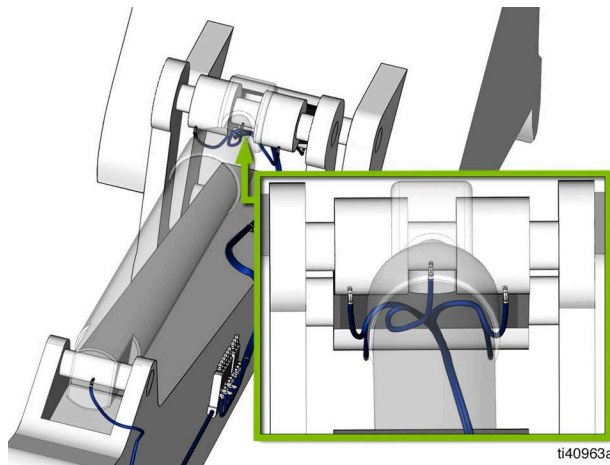


FIG. 23: Top View

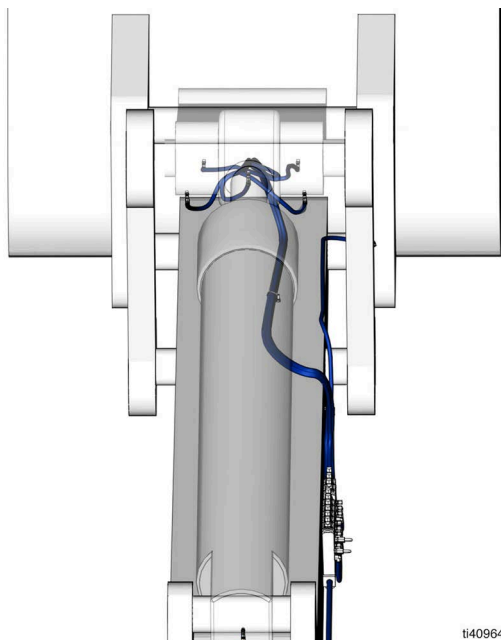


FIG. 24: Bottom View

Wiring Guidelines

Compact Dyna-Star Pump with GLC 2200 Controller (FIG. 25)

Wiring to Pump

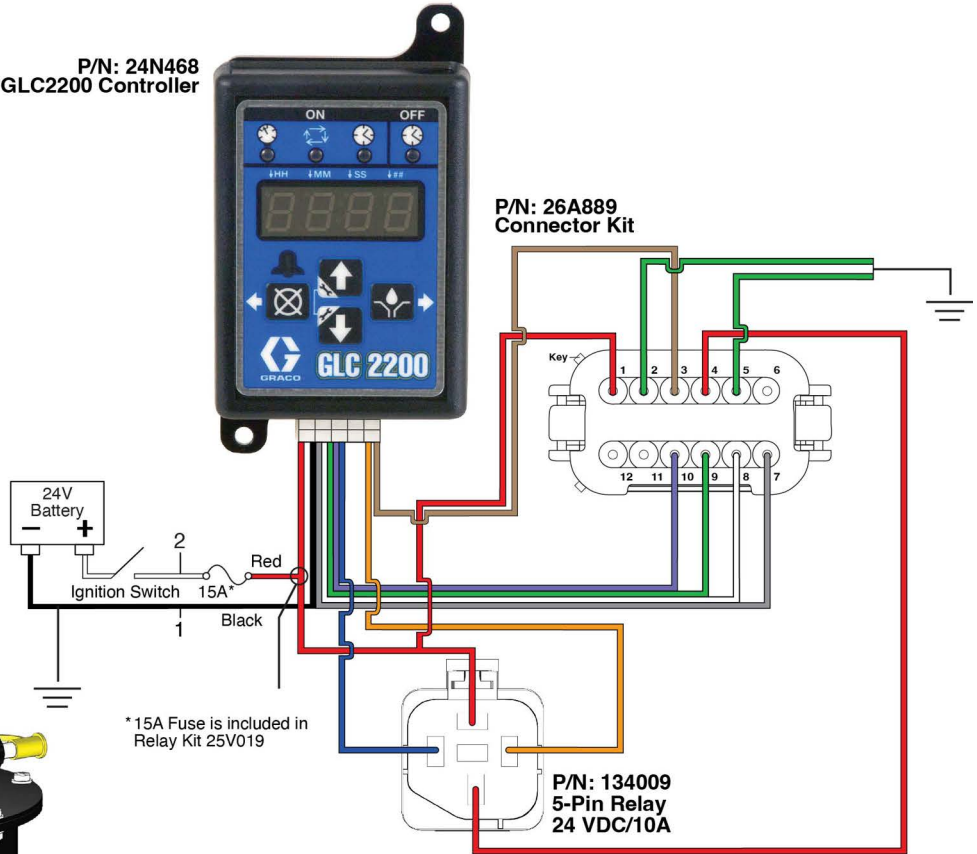
PIN	Color	Description	+/-
1	Blue	Pump	-
2	Purple	Alarm	-
3	Brown	Low Level	-
4	White	Pressure Cycle Switch	-
5	Black	Voltage Input	-
6	Orange	Pump	+
7	Green	Alarm	+
8	Yellow	Low Level	+
9	Gray	Pressure Cycle Switch	+
10	Red	Voltage Input	+

P/N: 24N468
GLC2200 Controller

P/N: 26A889
Connector Kit

P/N: 134009
5-Pin Relay
24 VDC/10A

P/N: 25P947
Pump Cable



*15A Fuse is included in Relay Kit 25V019

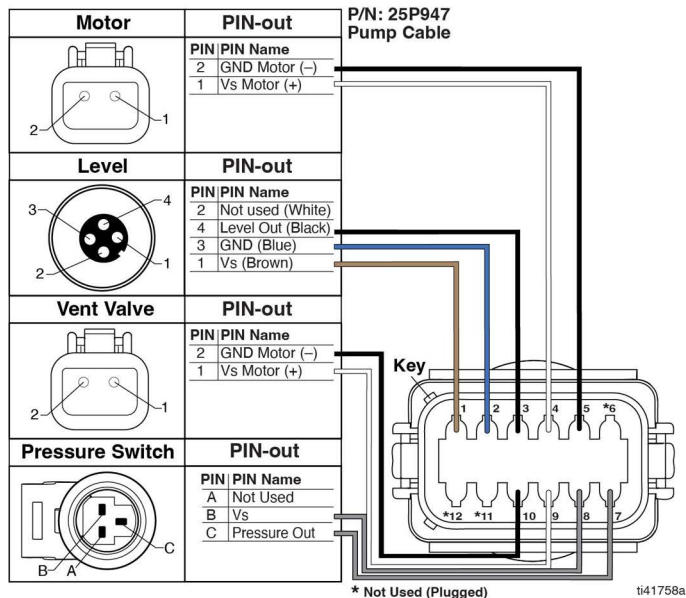






FIG. 25

Install GLC 2200 Controller Relay



WARNING

AUTOMATIC SYSTEM ACTIVATION HAZARD
 Unexpected activation of the lubrication system could result in serious injury, including skin injection and amputation. Before installation or removal of the controller or controller relay from the system, disconnect and isolate all power to the pump, and relieve all pressure.

NOTE: If using a GLC 2200 Controller with a Compact Dyna-Star pump, Relay P/N 25V019 is required.

1. Make sure that the power to the pump is off.
2. Install fuse holder and fuse (included) to the power source, or use an add-a-fuse (user supplied) to power (FIG. 26).

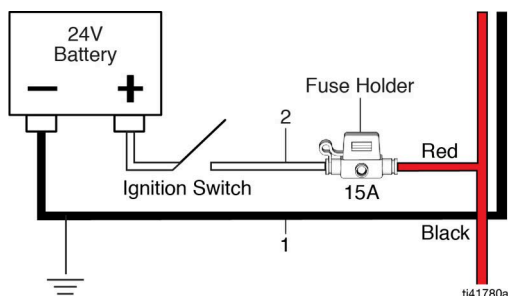


FIG. 26

3. Install the relay in a location protected from water.
4. Splice one red wire from the relay to the motor (+) location of the GLC 2200 Controller harness going to the pump (FIG. 27).

NOTE: For the Compact Dyna-Star, this is pin 4.

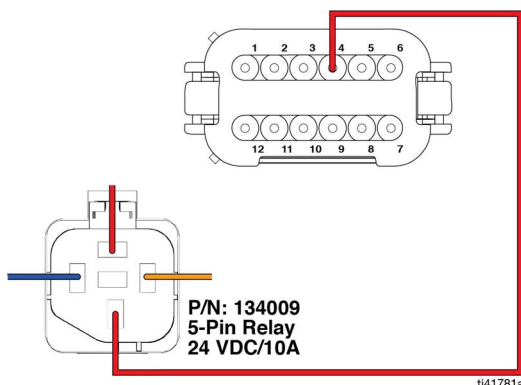


FIG. 27

5. Connect the orange wire from the relay to the orange GLC 2200 Controller harness pump outlet wire, using butt splices (included).
6. Connect the blue wire from the relay to the blue GLC 2200 Controller harness pump outlet wire, using butt splices (included).
7. Install the loose red wire into the GLC 2200 Controller harness for the low level power (FIG. 28).

NOTE: For the Compact Dyna-Star, this is pin 1.

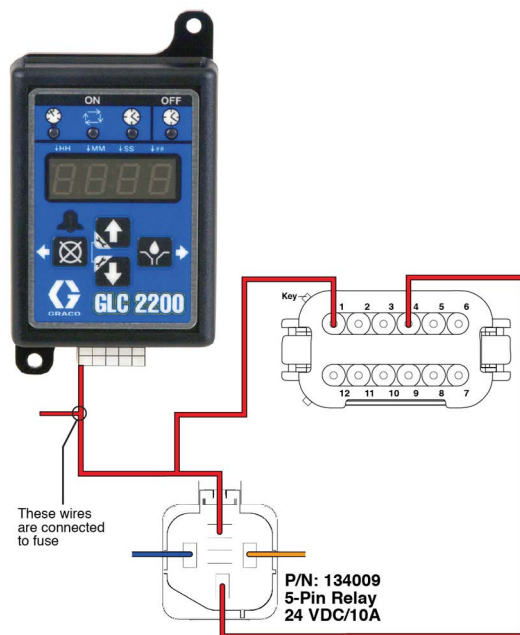


FIG. 28

8. Install one ground wire into the GLC 2200 Controller harness for the low level (GND).

NOTE: For the Compact Dyna-Star, this is pin 2.

9. Install the second ground wire into GLC 2200 Controller harness for the motor (GND).

NOTE: For the Compact Dyna-Star, this is pin 5.

10. Connect the low level ground and the motor ground to the battery ground.
11. Splice together the other red wire from the relay with the red wire for the Low Level Power (Pin 1) to the fuse holder.

Compact Dyna-Star Pump with GLC X Controller (FIG. 29)

Cable	GLC X PIN	CDS PIN	AWG	Color	Function
Signal	1	4	16	Red	Pump/Motor
Signal	2	9	18	White	Auxiliary/Alarm (Vent Valve)
Signal	3	5	16	Black	GND (Pump/Motor)
Signal	4	7	18	Yellow	Sensor Power 1 (Pressure)
Signal	5	1	18	Orange	Sensor Power 2 (Low Level)
Power	6	N/A	16	White	Voltage Source
Signal	7	10	18	Black	GND (Vent Valve)
Signal	8	2	18	Green	GND (Low Level)
Signal	9	3	18	Brown	Input 2 (Low Level)
Power	10	N/A	16	Black	Voltage Source Ground
Signal	11	11	18	Slate	Input 3 (Cycle) Not-Used
Signal	12	12	18	Violet	Input 4 (Machine Count) Not-Used
Signal	13	6	18	Green	GND (Pressure)
Signal	14	8	18	Blue	Input 1 (Pressure)

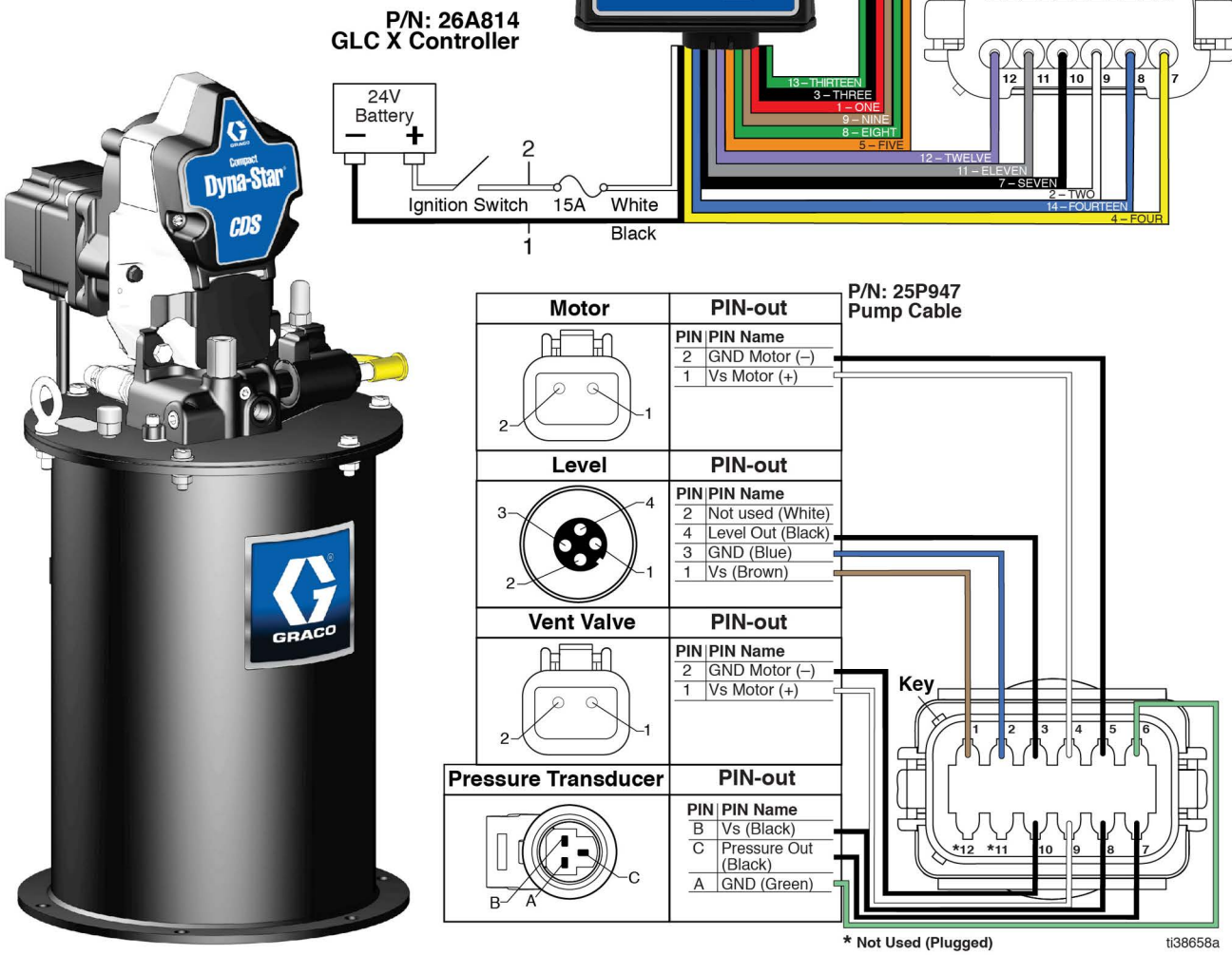


FIG. 29

Programming (Fig. 30 and Fig. 31)

GLC2200

Example Settings:

On: Pr
 On Time: 10:00 Min
 Off Time: 01:00 Hour
 Low Level: LL:01

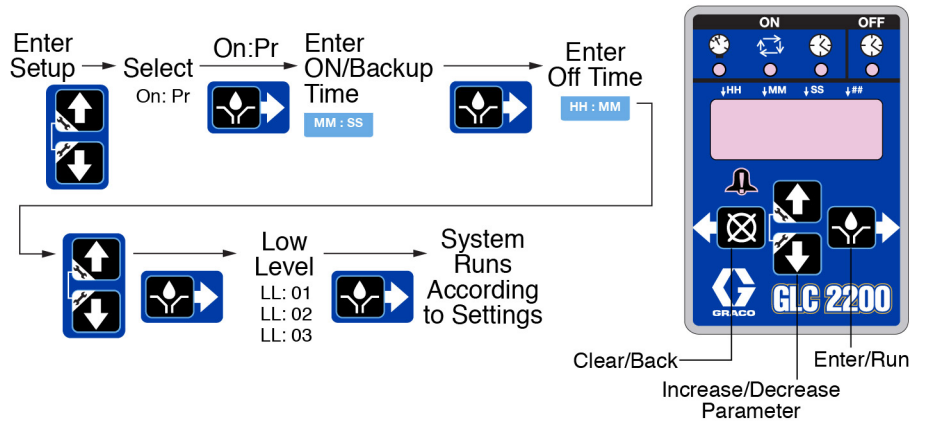


FIG. 30

GLC X

Example Settings:

Time Out: 10:00 Min
 Interval Time: 01:00 Hour
 Prelube: Off
 or
 Prelube: On - 10:00

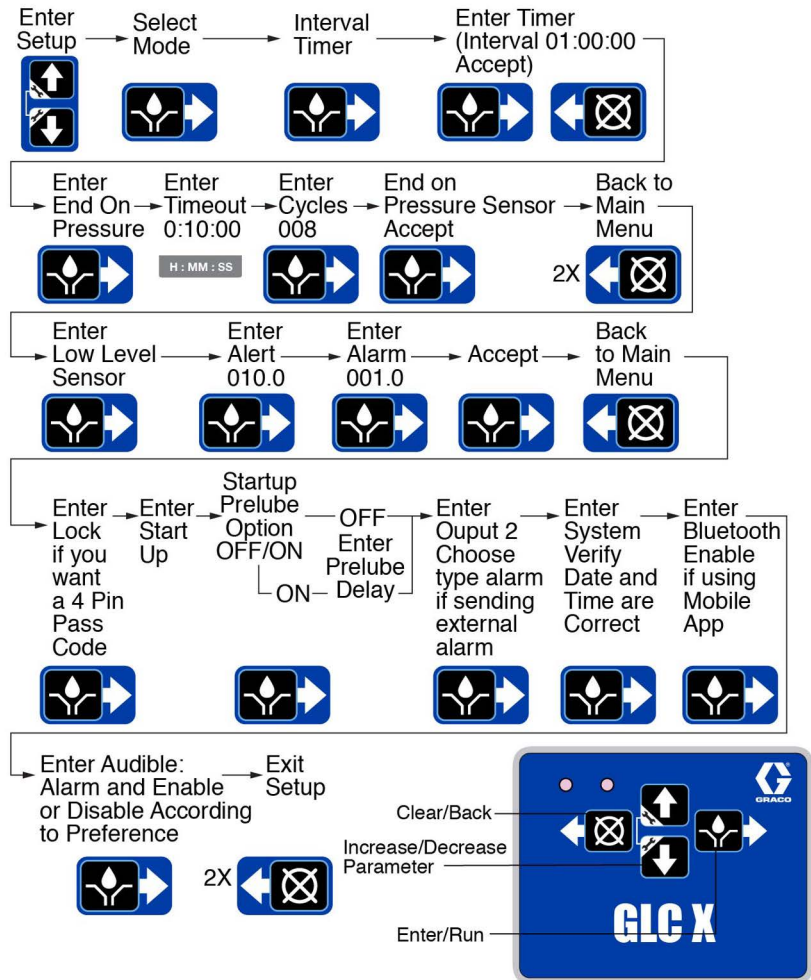


FIG. 31

Fill Pump and Hoses with Grease

NOTE: Ensure dirt and/or debris does not get on the grease fitting or introduced into the system.

Fill Pump Reservoir without an Auto-Fill Shut Off Valve:

- Reference the Compact Dyna-Star Electric Pump manual for instructions on filling the pump reservoir without an auto-fill shut off valve.
- Grease fills the reservoir from the bottom to the top through the tube-in-tube fill path.
- When the reservoir is full, grease purges through the overflow tube on the side of the reservoir to indicate the reservoir is full.

Fill Pump Reservoir with an Auto-Fill Shut Off Valve:

- Reference the Compact Dyna-Star Electric Pump manual for instructions on filling the pump reservoir with an auto-fill shut off valve.
- Grease transfers from the remote fill valve to the pump through the fill port.
- When the reservoir is full, the follower plate in the reservoir engages the auto-fill shut off valve to stop the reservoir from continuing to fill. The pressure increases on the gauge of the remote fill valve.
- Turn off the power supply to the filling pumps and vent the pressure by pulling the vent valve on the remote fill valve, then disconnect the fill pump.

Fill Injectors and Hoses with Grease to Purge Air

An automatic lubrication system must be free of air to function properly.

- Reference the GL-1 X, GL-1 XL Injectors manual for filling the injectors and hoses with grease.
- Use a waste container to capture excess grease from the grease hoses.
- Fill each injector and hose with grease.

NOTE: It is helpful to have a colleague assist with this step. While one person fills the hoses with grease the second person monitors the grease hoses and bearing points to verify they are receiving grease and when they are filled.

- Tighten all hoses to the pump, injector manifolds, injectors, and bearing points securely.

Test the System

Before testing the system:

- Verify that the pump reservoir is filled with grease.
- Verify the injectors and grease hoses are filled with grease and air is purged.
- Verify that all supply hoses are connected securely.
- Connect the power to battery. Turn key to ACC.
- Verify the Compact Dyna-Star pump and the GLC controller have power.
- Press the Manual Run button on the GLC controller to run the lube system through several lube events and to ensure that all lube points are receiving grease.
- While the pump is running, walk around the equipment and inspect all of the connections at the pump, valves, hose fittings, and bearing point connections to confirm that there are no leaks in the system.
- Articulate all working sections of the equipment to ensure there is sufficient hose length supplied to all lubrication points.
- Inspect the injectors, hose fittings, and bearing point connections again, to confirm there are no leaks, the hoses are secure, and that all points are receiving grease.
- Adjust any fittings or connections that are leaking.
- If possible, put equipment into service and inspect the movement of the equipment to verify there are no pinch points and that the equipment is functioning properly.
- After completing all of the testing, park the equipment in a safe and secure location. Disconnect the battery switch and ensure proper parking procedures are observed.
- Complete any final housekeeping activities such as cleaning the work area, ensuring that any potential grease spills have been cleaned up, and that all waste containers are disposed of properly.
- Perform a final walk around of the equipment. Take photographs as needed for documentation or reference.

Train the Operator

Train the operator on the features and day-to-day operation of the lubrication system.

Check List

- How to know when the reservoir is empty.
- What to do when the reservoir is empty.
- How to know if the lube points are getting grease.
- Lubrication system inspection.
- Clearing faults on the pump or controller.

Troubleshooting

Review the Troubleshooting Table below. For additional service, refer to the Graco Website, www.Graco.com and/or contact your Graco Distributor.

Problem	Solution
Pump does not power on.	Verify the equipment battery is connected and the key is in the ACC position. Check wiring to the Compact Dyna-Star pump and GLC controller is correct. See Wiring Guidelines , page 16.
GLC controller is in alarm mode. System does not operate.	Hold down the fault clear button on the GLC controller for three (3) seconds to clear the fault and begin the OFF Time countdown.
GLC controller is in fault mode and display shows ER:LL or A13 Level empty.	Pump reservoir is empty and requires refilling. After reservoir is filled, press and hold the reset button on the GLC controller.
GLC controller alarm sounding during operation.	To silence the alarm until service can be rendered, press the reset button for one (1) second; then release the button. This will silence the alarm but maintain the lube system in alarm mode until serviced.
GLC controller displays ER:PR or A15 Pressure timeout.	The lubrication system failed to complete a lube event in the time allowed to run. Verify that the GLC controller is programmed correctly. In colder temperatures, it may be necessary to increase standard run time to complete the lube event.
	If the first solution does not correct the problem, run a manual cycle and check the pump relief valve for any discharged grease at the inspection port. If the grease pressure is at 4000 psi (27.58 MPa, 275.8 bar) when the relief valve discharges from the relief valve inspection port, grease is not flowing in the system.
	Inspect the main hose and fittings for damage, kinks, plugs, etc.
	Inspect the pressure switch for proper connections and operation.
	Inspect the vent valve for proper wiring, connection and operation. Make sure it is vented from the last lube event.
The injectors fail to cycle.	Remove the zerk cap and pump grease into the grease zerk. If grease freely flows to the lube point, replace or rebuild the injector. If grease does not freely flow, then the lube point is not accepting grease and needs to be serviced.
Bearings are not receiving enough grease.	Injectors are equipped with a volume adjustment nut on the top. Twisting the adjustment nut out increases the volume of grease dispensed. If the injectors are at the maximum setting, the controller settings need to be adjusted.
	Reduce the OFF Time on the controller. This increases the frequency of the lube events and increases the amount of grease the bearings receive throughout the day. Alternative setting = 45 minutes = 30% increase, 40 minutes = 50% increase, 30 minutes = 100% increase.
GLC controller or Compact Dyna-Star pump will not run programmed time.	Verify you are programming the hours, minutes, and second correctly. Refer to the GLC controller instruction manual.
There is a broken hose in the lubrication system.	Replace broken hose. See Assemble Hose Fittings , page 9. The original kit included extra hose and fittings. If you do not have spare hose and fittings to assemble a replacement hose, contact your Graco Distributor for assistance with ordering new parts.

Parts

PN	Description	25T546 (20 Pt)
		Quantity
100040	Plug, pipe 3/8 - 18	4
100081	Bushing, pipe	2
102040	Nut, lock, hex	30
102547	Screw, Cap, hex, hd	2
111040	NUT, lock, insert, nylock, 5/16	2
117832	Adapter, 9/16 - 18 JIC x 3/8 npt	10
123147	Guard, hose, 9 mm ID, 10 m	8
127512	Stud, weld, 1/4 - 20 x .710	30
128006	Clamp, hose, .375 OD hose	30
128051	Clamp, loop, 1 in. ID, vinyl coated	10
128568	Fitting, 3/8 in., run tee	2
133095	Tube, cross over	5
155699	Fitting, elbow, street	5
156849	Pipe, nipple	2
557392	Adapter, 1/8 nptf hex	10
558910	Fitting, anchor st 1/2	1
15K783	Fitting, elbow, SAE short 1/8	12
17K063	Tie, cable, 14.75 in. x .31 in. qty 100	2
17L546	Fitting, comp, elbow, 6 mm x R 1/8 in.	25
17L548	Fitting, comp, str, 6 mm x R 1/8 in.	25
17L648	Sleeve, hose	50
17P336	Hose, 3/8 in. field installable	1
17P337	Fittings, -6 JIC x 3/8 hose end	10
17R565	Stud, straight, 6 mm, comp	50
17R566	Stud, elbow, 6 mm, comp	25
17S393	Kit, accy, weld, mnt, inj, 3 pt	1
17S394	Kit, accy, weld, mnt, inj, 4 pt	1
17S395	Kit, accy, weld, mnt, inj, 5 pt	2
17S396	Kit, accy, weld, mnt, inj, 6 pt	1
17S554	Hose, 8.6 mm x 100 m	1
17T781	Fitting, compression	50
24X803	Injector, GL-1 X, 3 pt	1
24X804	Injector, GL-1 X, 4 pt	1
24X805	Injector, GL-1 X, 5 pt	2
24X806	Injector, GL-1 X, 6 pt	1

Pump Kits

Compact Dyna-Star Standard with GLC X

25T528 (12L, No AFSSO) contains pump CD1312 and parts kit 25T532

25T529 (12L, w/AFSSO) contains pump CD1314 and parts kit 25T533

25T530 (20L, No AFSSO) contains pump CD2322 and parts kit 25T532

25T531 (20L, w/AFSSO) contains pump CD2324 and parts kit 25T533.

25U317 (60 lb, No AFSSO) contains pump CD3362 and parts kit 25T532.

25U318 (60 lb, w/AFSSO) contains pump CD3364 and parts kit 25T533.

Compact Dyna-Star Standard with GLC 2200

25T659 (12L, No AFSSO) contains pump CD1211 and parts kit 25T657

25T661 (12L w/AFSSO) contains pump CD1213 and parts kit 26T658

25T660 (20L, No AFSSO) contains pump CD2211 and parts kit 25T657

25T662 (20L w/AFSSO) contains pump CD2223 and parts kt 26T658.

25U315 (60 lb, No AFSSO) contains pump CD3261 and parts kit 25T657.

25U316 (60 lb, w/AFSSO) contains pump CD3263 and parts kit 25T658.

PN	Description	Kits/Quantity			
		25T532 (12L/20L, GLC X)	25T533 (12L/20L, GLC X, AFSSO)	25T657 (12L/20L, GLC 2200)	25T658 (12L/20L, GLC 2200, AFSSO)
26A884	Harness, Compact Dyna-Star extension, GLC X, kit	1	1	1	1
102814	Gauge, press, fluid	1	1	1	1
15M045	Fitting, elbow, 1/4	1	1	1	1
24N468	Control, GLC 2200	--	--	1	1
26A814	Control, GLC X	1	1	--	--
17G007	Kit, GLC 2200 Mounting	1	1	1	1
24W981	Cable, harness, GLC 2200 10 ft.	--	--	1	1
117832	Adapter, 9/16 - 18 JIC x 3/8 npt	1	5	1	5
155699	Fitting, elbow, street	1	5	1	5
131944	Holder, fuse, ATM, add a circuit	1	1	1	1
17D688	Holder, fuse, add a circuit	1	1	1	1
131206	Fuse, ATO blade, 32 V, 10A	1	1	1	1
17F115	Fuse, automotive, mini, 10A	1	1	1	1
131230	Terminal, ring, ground, 18 AWG, 1/4	2	2	2	2
124234	Screw, cap, hex hd, 3/8 - 16 x 4, GR 5	6	6	6	6
100023	Washer, flat	12	12	12	12
101566	Nut, lock	6	6	6	6
132571	Kit, connector, 12 pos dt	1	1	1	1
26A889	Kit, connector, Compact Dyna-Star	1	1	1	1
26A882	Kit, harness, GLC X	1	1	--	--
77X542	Manifold, remote fill with vent asm	--	1	--	1
129332	Screw, hex, serrated, 1/4 - 20 x 2.50	--	4	--	4
102040	Nut, lock, hex	--	4	--	4
17P337	Fitting, -6 JIC x 3/8 hose end	--	4	--	4
25V019	Relay, GLC 2200	--	--	1	1

Related Manuals

Manual No.	Title
3A6941	Compact Dyna-Star Electric Pump
333393	Fill Valve Instructions
335023	GL-1 X, GL-1 XL Injectors
3A7031	GLC X Lubrication Controller
3A2960	GLC 2200 Controller
3A3159	Instructions for Installing a Field Attachable/Reusable Hose Fitting
3A7048	Compact Dyna-Star Wiring Harness

California Proposition 65

CALIFORNIA RESIDENTS

 **WARNING:** Cancer and reproductive harm – www.P65warnings.ca.gov.

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For patent information, see www.graco.com/patents.

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