

## Tool Instruction Fuel Priming System 12-922-01

4328071R1

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Tool Number: 12-922-01



**Figure 1 Fuel Priming System 12-922-01**

### **Purpose**








The Fuel Priming System 12-922-01 is designed to assist in priming the fuel filter housings and high-pressure fuel pumps after replacement.

### **Application(s)**

2010 Emissions Model Year MaxxForce® 11 and 13

## Tool Contents

Table 1 Tool Contents

Image	Part Number	Qty	Description
	12-922-01	1	Fuel Priming System
	12-922-01-2	1	Male Suction Adapter
	12-922-01-3	1	Female Pressure Adapter
	12-922-01-4	1	Tank Draw Suction Adapter
	12-922-01-5	1	Pressure Adapter Open Tube
	12-922-01-6	1	Pressure Adapter Comp-U-Check
	FS19915	1	Replacement Filter
	4328071R1	1	Instruction Sheet

## Tool Contents (cont.)

Table 2 Applications

Application	Suction Adapter	Pressure Adapter
2010 Emissions Model Year MaxxForce® 11 and 13	12-922-01-2	12-922-01-3
Various Detroit™ diesel and Cummins Applications	12-922-01-4	12-922-01-6*
Transfer pump use and filter housing filling	12-922-01-4	12-922-01-5

**CAUTION:** \* Do not use Pressure Adapter 12-922-01-6 on MaxxForce 11 and 13 engines.

## Instructions



**GOVERNMENT REGULATION:** Engine fluids (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluids and other contaminated materials (such as filters and rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.



**WARNING:** Read all safety instructions in the “Safety Information” section of the *Engine Service Manual* or *Engine Diagnostic Manual* to prevent personal injury or death.



**WARNING:** To prevent personal injury or death, shift transmission to park or neutral, set parking brake, and block wheels before doing diagnostic or service procedures.

**NOTE:** Fuel Priming System 12-922-01 ball valves (on hose ends) should be in closed position, unless suction and pressure hoses are connected to vehicle fuel system.

**CAUTION:** To prevent damage to fuel system components, make sure pressure regulator handle is in 50 psi (345 kPa) position (Figure 2) when servicing MaxxForce® 11 and 13 engines.

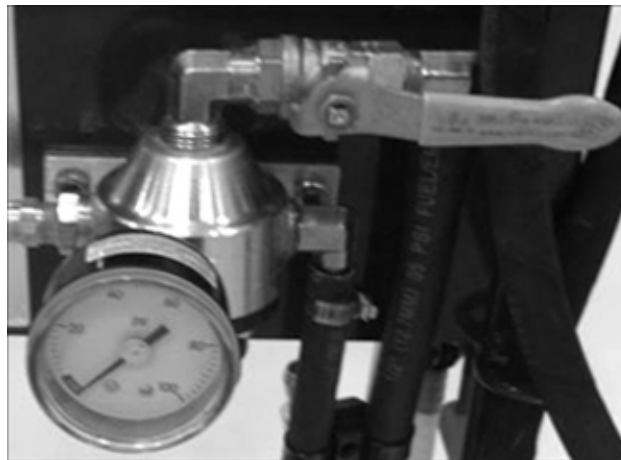


Figure 2

## Instructions (cont.)

1. Fill Fuel Priming System 12-922-01 filter housing with approximately 1 gallon of clean diesel fuel up to level indicator (Figure 3). Do this the first time tool is used and any time there is no diesel fuel in filter housing.

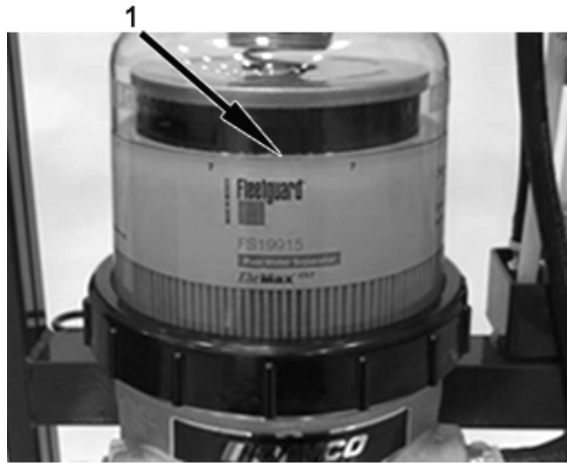


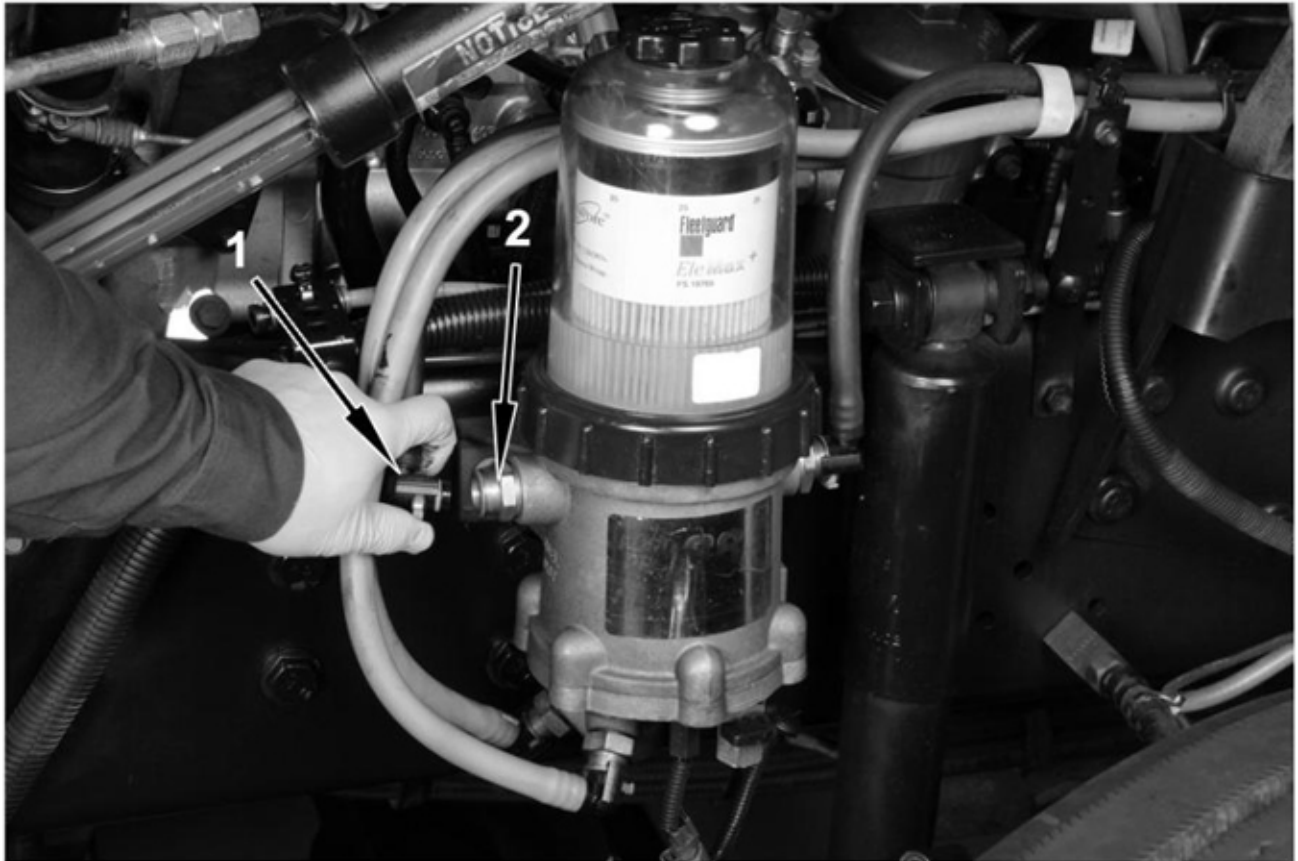
Figure 3

1. Level indicator
2. Put a fuel drain pan under primary fuel filter / water separator.
3. If necessary, fill primary fuel filter / water separator with clean diesel fuel.
4. Select suction adapter 12-922-01-2 and pressure adapter 12-922-01-3 from the adapter holding fixture on the Fuel Priming System 12-922-01 cart.

**NOTE:** If using the Fuel Priming System 12-922-01 for a different application, please refer to Table 2 for proper adapters.

## Instructions (cont.)

5. Disconnect fuel supply line to engine at primary fuel filter / water separator (fuel output to low-pressure fuel pump) (Figure 4).

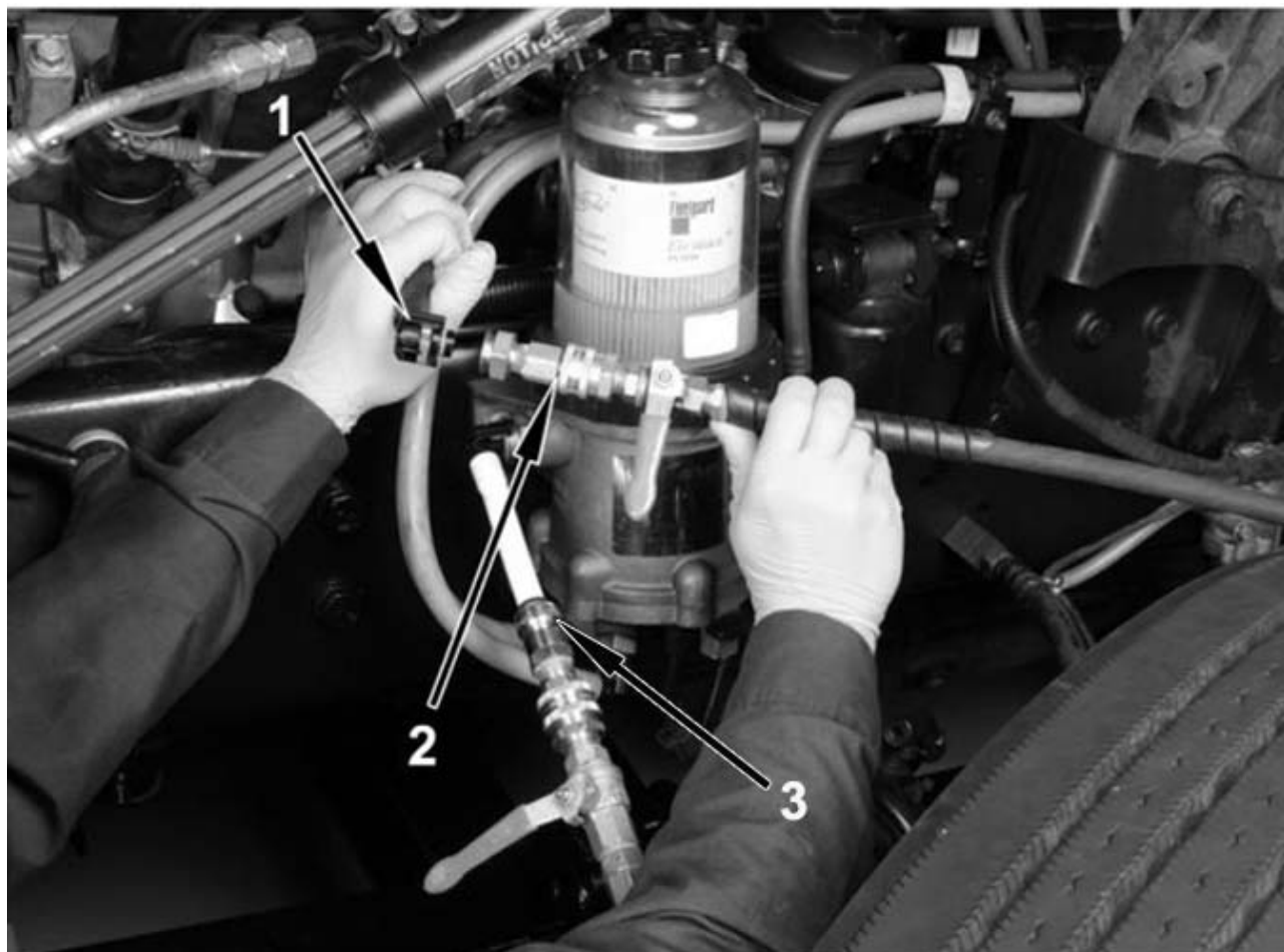


**Figure 4**

1. Fuel supply line
2. Fuel supply line connector

## Instructions (cont.)

6. Connect Fuel Priming System 12-922-01 suction hose to the primary fuel filter / water separator output (Figure 5).



**Figure 5**

1. Fuel supply line to engine
  2. Fuel Priming System pressure hose
  3. Suction hose
7. Connect Fuel Priming System 12-922-01 pressure hose to fuel supply line to engine (Figure 5).

## Instructions (cont.)

8. Open pressure and suction hose ball valves (Figure 6).

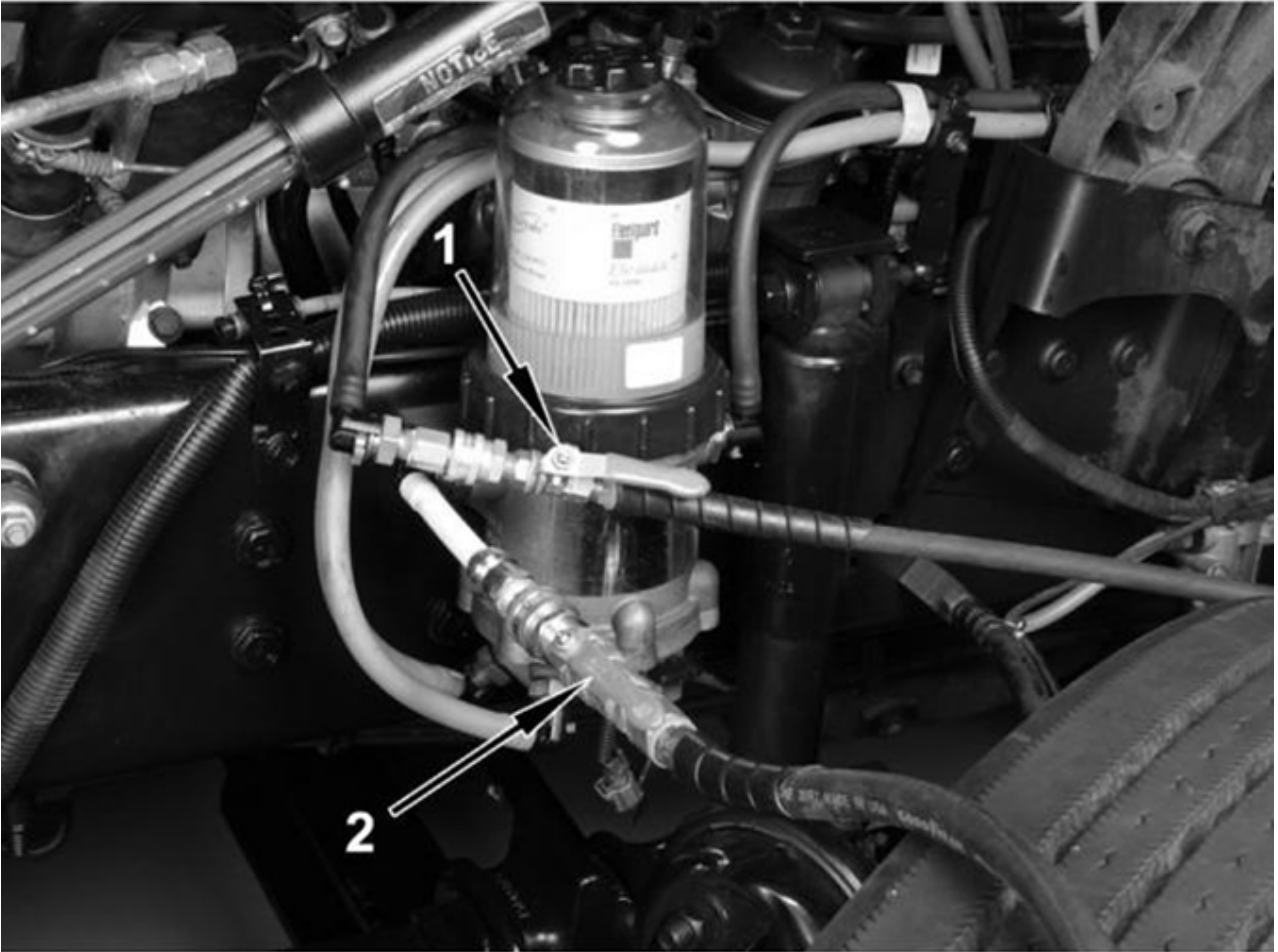


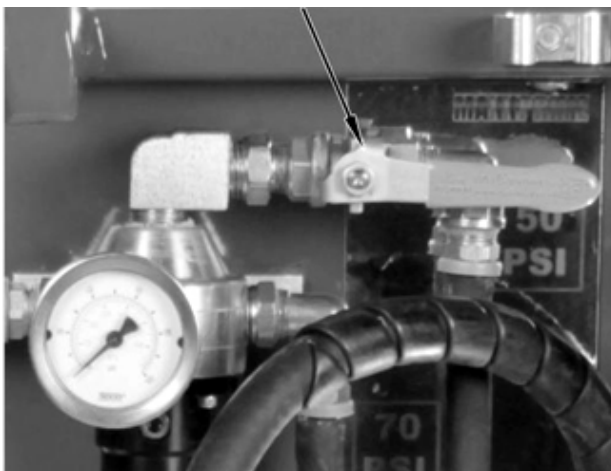
Figure 6

1. Pressure valve
2. Suction valve

## Instructions (cont.)

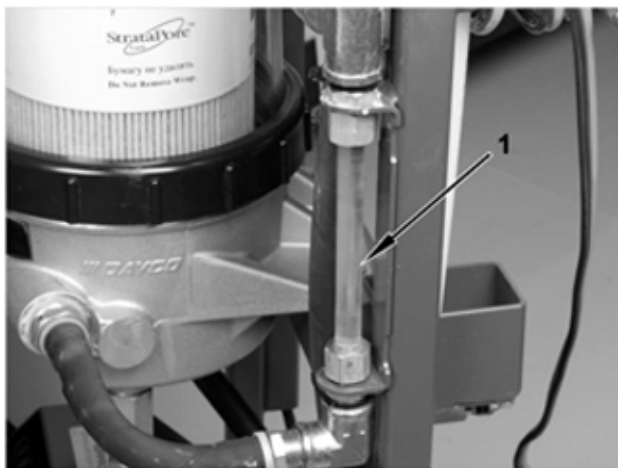
**NOTE:** For 2010 Emissions Model Year MaxxForce® 11 and 13.

- Set Fuel Priming System 12-922-01 pressure regulator selector lever to 50 psi (345 kPa) (Figure 7).



**Figure 7**

- Connect electrical power to Fuel Priming System 12-922-01.
- Press Fuel Priming System 12-922-01 power button (located on outlet box on top of Fuel Priming System 12-922-01 cart) to ON position.
- Run Fuel Priming System 12-922-01 for a minimum of 2 minutes after no bubbles are visible in sight glass (Figure 8).



**Figure 8**

- Sight glass
- After the 2 minutes has passed, start engine with Fuel Priming System 12-922-01 still running.
- Run engine at 1200 rpm for a minimum of 2 minutes.
- After the 2 minute run time, turn off engine.



## Instructions (cont.)

16. Turn Fuel Priming System 12-922-01 off.
17. Close pressure and suction hose ball valves (Figure 9).



Figure 9

1. Pressure valve
2. Suction valve

18. Disconnect Fuel Priming System 12-922-01 pressure and suction hoses from adapters.
19. Remove suction adapter 12-922-01-2 and pressure adapter 12-922-01-3 from vehicle.

**NOTE:** If the Fuel Priming System 12-922-01 is used for other applications, remove pressure and suction adapters that were used.

20. Re-connect fuel supply line to primary fuel filter / water separator.
21. Re-start truck to verify that no leaks are present.

## Contact Information

If you would like to order additional tools, have questions, concerns, feedback, or need replacement parts, please contact:

Navistar Service Tool Support Center

- Phone: 800-365-0088 (Toll Free) or 630-985-4171
- Submit a Service Tool iKNow case file