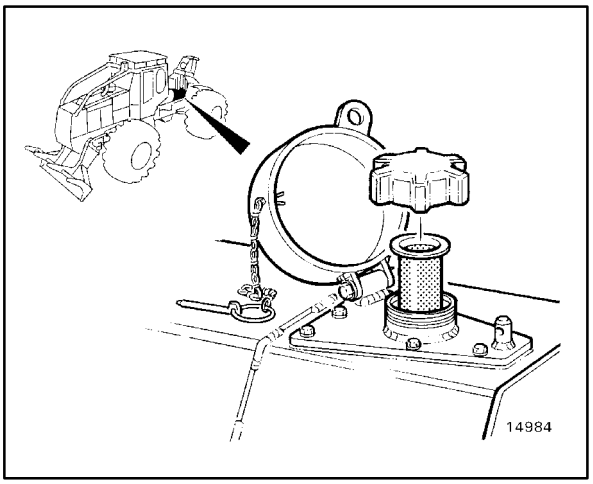
2. Checking the Fuel Level



CAUTION

Never fill the fuel tank with the engine running, while you, or anyone nearby is smoking or when near an open flame.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Avoid overfilling the tank or spilling fuel. If fuel is spilled, clean it up immediately.

Fill the tank at the end of each day. This helps prevent condensation forming in an empty tank overnight.

See Section 9800, General Machine Specifications, Fluids and Lubricants, for recommended fuel.

The fuel level is displayed on the instrument panel.

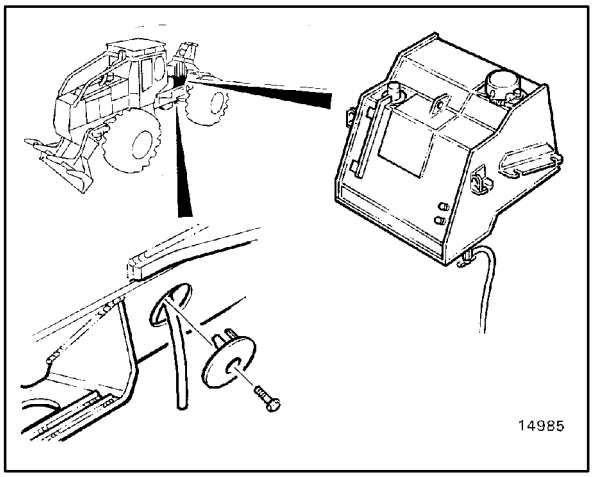
Before filling, check the inlet screen for debris or dirt. Remove and clean the inlet screen if necessary.

3. Draining Water from Fuel Tank

Remove the access plug in the rear frame and pull the drain hose through.

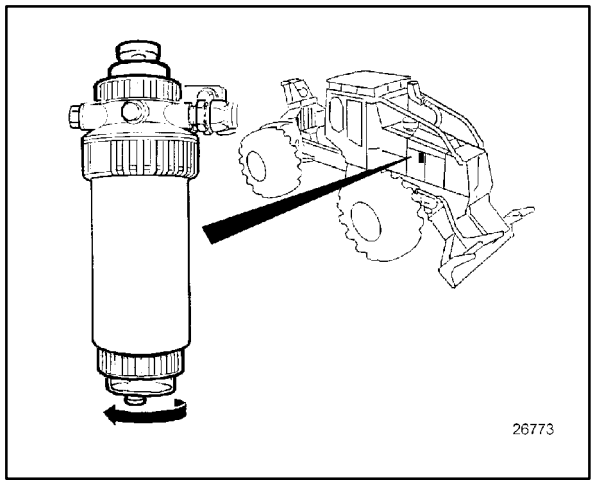
Open the drain cock and drain approximately one pint (1/2 liter) of fuel from the tank into a suitable container to remove any water or sediment .

Close the drain cock, install the drain hose and replace the access plug.



4. Filters

4.1 Checking the Primary Filter (Fuel/Water Separator)



Check the glass sediment bowl of the primary fuel filter / water separator for water or debris.

Loosen the thumb screw and drain water and sediment into a suitable container.

Tighten the drain screw.

4. Filters

4.2 Replacing the Primary Filter (Fuel/water Separator)

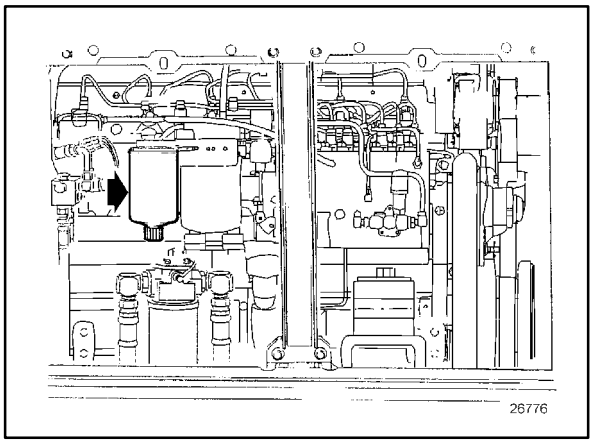
Thoroughly clean fuel filter / water separator assembly and surrounding area.

Place container under filter drain.

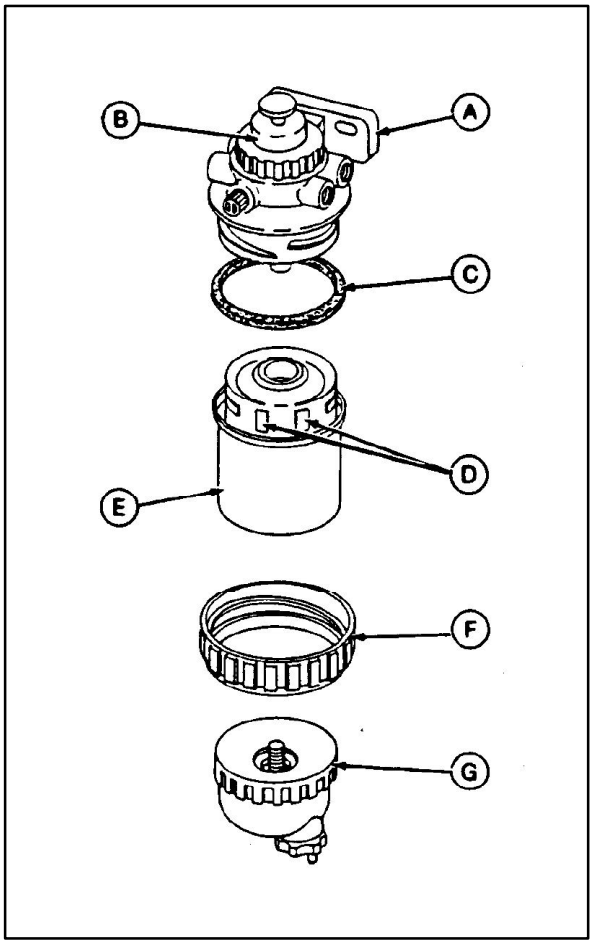
Drain all fuel from filter. Dispose of waste properly.

Turn retaining ring 1/4 turn counterclockwise. Remove ring with filter element.

Turn sediment bowl counterclockwise to remove from filter assemble. Drain and clean separator bowl. Dry with compressed air.

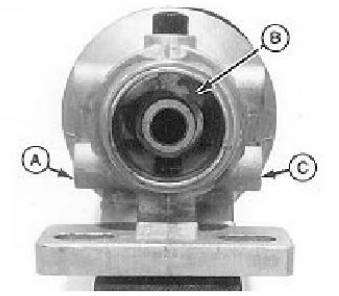


A. Mounting Base
B. Hand Primer
C. Dust Seal
D. Vertical Locators
E. Filter Element
F. Retaining Ring
G. Water Separator Bowl

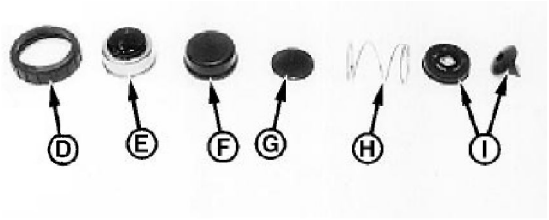


4. Filters

4.2 Replacing the Primary Filter (Fuel/water Separator)



A—Fuel Inlet Line Fitting
B—Filter Base
C—Plug



Remove hand primer from fuel filter base. Disassemble hand primer assembly (D - I) and clean.

A. Fuel Inlet Line Fitting
B. Filter Base
C. Plug
D. Retaining Ring
E. Pump Knob
F. Spring Cover
G. Spring Seat
H. Spring
I. Diaphragm

Remove fuel inlet line from fitting (A) and remove plug (C). Flush any debris from filter base (B).

Install fuel inlet plug and fuel inlet line.

Assemble fuel primer assembly and install onto fuel filter base.

Install water separator bowl onto new filter element. Tighten securely.

Install new filter element onto mounting base. It may be necessary to rotate filter for correct alignment.

NOTE: Notice raised vertical locators on the filter element. These locators ensure proper alignment of filter to filter base.

Install retaining ring to filter base, making certain that dust seal is in place on filter base. Tighten retaining ring until it locks into detent position and a 'click' sound is heard.

Bleed the fuel system.

4. Filters

4.3 Replacing Final Fuel Filter

Keep a small container under the filter drain plug to catch draining fuel.

Loosen bleed plug (C) on side of filter base. Remove drain plug (B) to drain fuel from fuel filter. Dispose of waste properly.

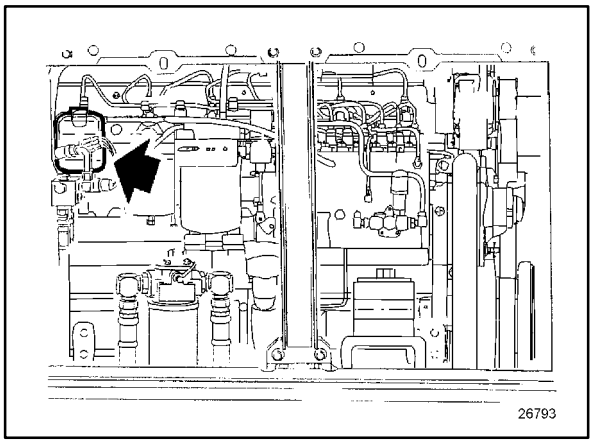
With fuel filter firm against base, lift up on top retaining spring and pull down on bottom retaining spring. Pull fuel filter off guide pins (A) of fuel filter base and discard.

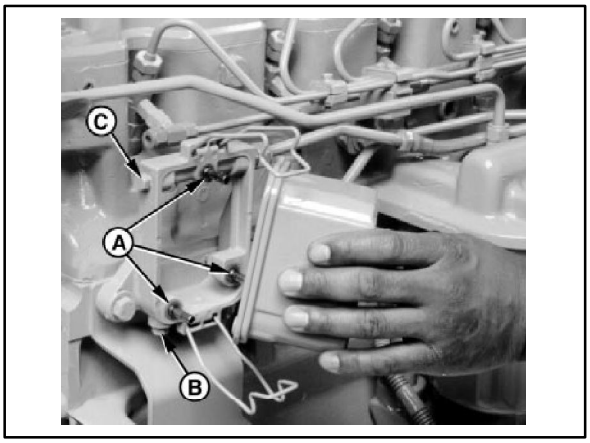
Install new fuel filter onto guide pins of fuel filter base. Hold filter firmly against the base.

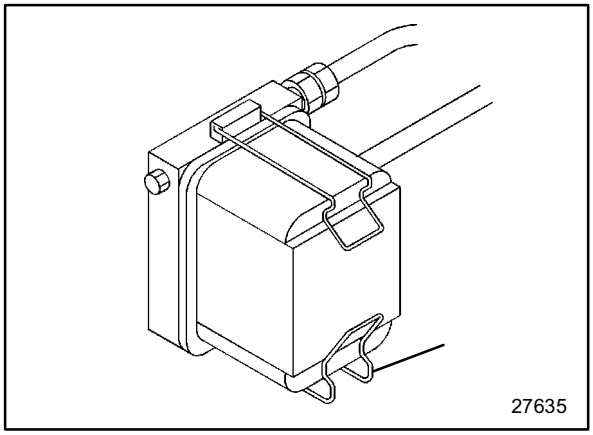
Secure bottom filter retaining spring (D) first, then secure top retaining spring.

Install new drain plug (B). Tighten drain plug and bleed plug securely. Do not overtighten.

Bleed the fuel system.

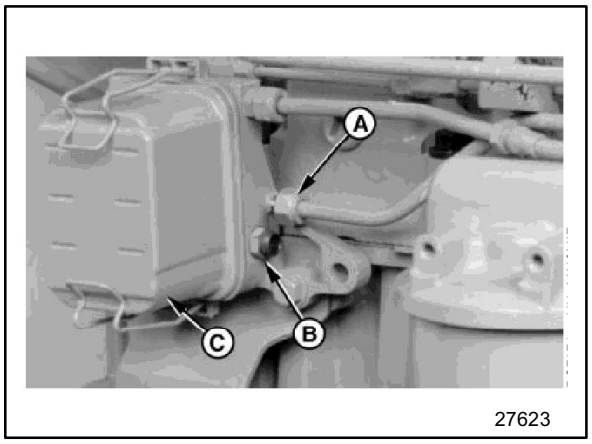






4. Filters

4.4 Replace Final Fuel Filter Check Valve



Drain and remove fuel filter (C).

Remove fuel filter inlet line (A).

Inspect and clean fuel filter base (if needed).

Remove check valve assembly (B) from fuel filter base and discard.

Install new check valve assembly and tighten securely.

Install fuel inlet line and tighten connection to 17 Nm (12 lb-ft) maximum. DO NOT overtighten.

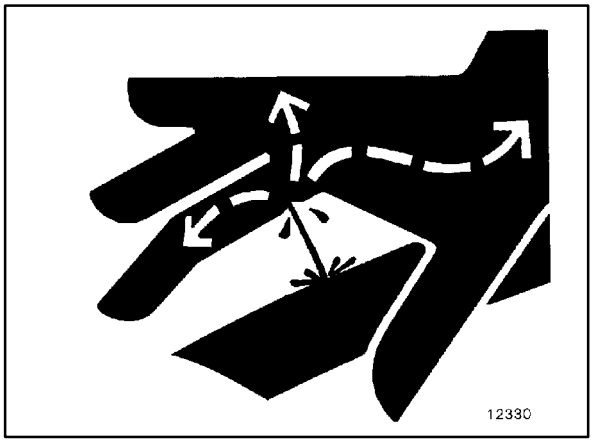
Install fuel filter and bleed fuel system.

5. Bleeding the Fuel System

CAUTION

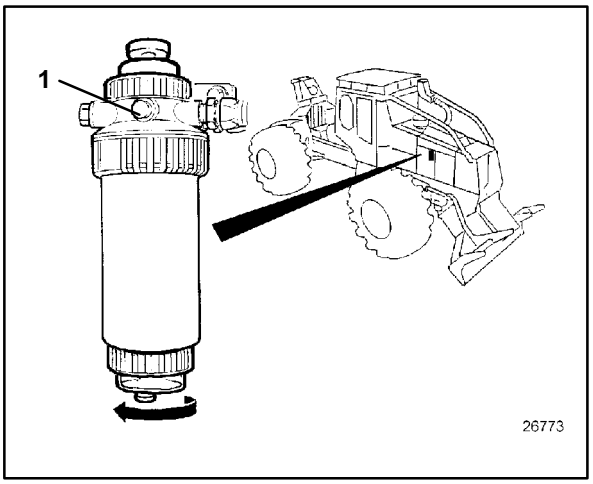
Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

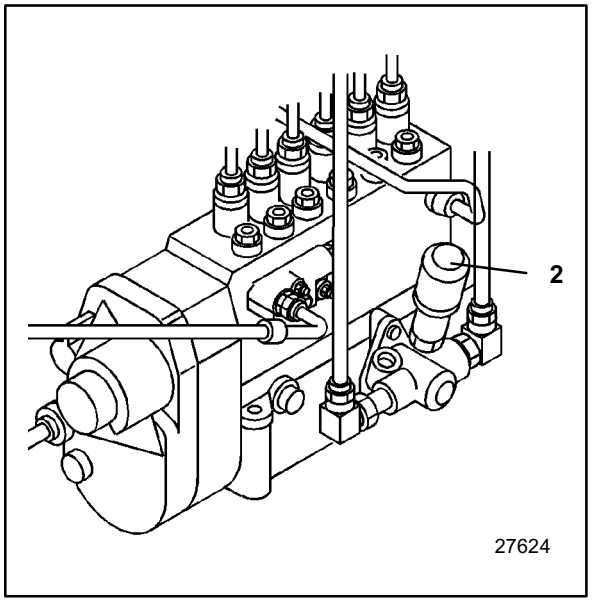
If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.



Whenever the fuel system has been opened up for service, it will be necessary to bleed air from the system.

5. Bleeding the Fuel System





At Primary Fuel Filter (Fuel/water Separator):

Drain water and sediments from clear sediment bowl.

Loosen air bleed vent screw (1) on fuel filter base.

Operate hand primer (2) until fuel free from air bubbles flows from air bleed vent hole.

Tighten vent screw as hand primer is held down.

To continue, bleed air at final filter.

5. Bleeding the Fuel System

At rectangular Final Fuel Filter:

Check filter drain screw to be sure it is tight.

Turn key switch to ON position.

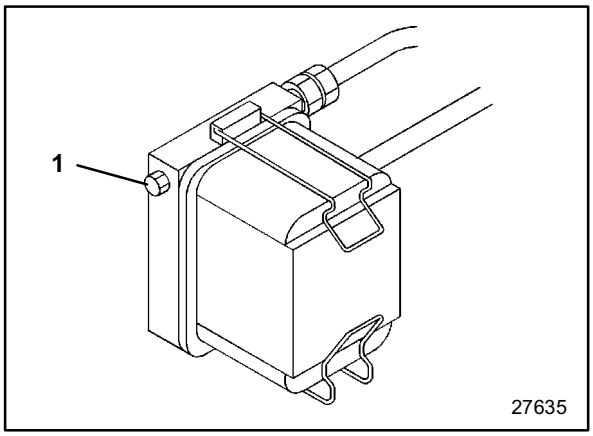
Loosen bleed screw (1).

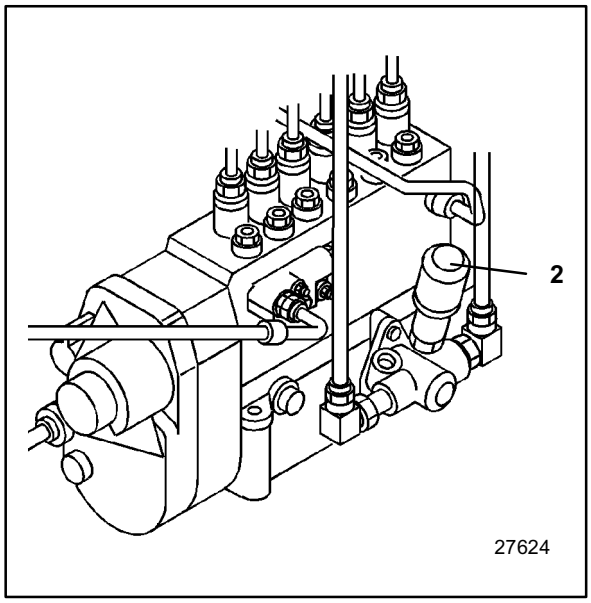
Operate hand primer (2) until fuel free from air bubbles flows from air bleed vent hole.

Tighten vent screw as hand primer is held down. DO NOT overtighten.

Start engine and check for leaks.

If engine will not start, it may be necessary to bleed air from fuel system at fuel injection nozzles.





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