

## Hand priming



Vehicles equipped with optional fuel blender.

**For fuel blenders with a manual shut-off valve, perform the following steps to prime the fuel system:**

1. Turn the blender shut-off valve to the 'Prime' position.
2. Prime the system by hand as described below.
3. Start the engine and allow it to run at idle for 5 minutes.

**Prime position**



4. Turn the blender shut-off valve to the 'Run' position.

**Run position**



**For fuel blenders without a manual shut-off valve, perform the following steps to prime the fuel system:**

1. Disconnect fuel hoses from fuel blender inlet and outlet fittings.
2. Use an SAE 45 degree (-8 flare) union fitting to connect the fuel hoses.
3. Cap fuel blender inlet and outlet with SAE Flare 45 degree (-8 flare) cap fittings.
4. Prime the system by hand as described below.
5. Start the engine and allow it to run at idle for 5

minutes.

- Reconnect fuel hoses to the fuel blender.

### Priming by hand

- Loosen the knob of the fuel lift pump (1) by turning it counterclockwise.
- Open the air bleeder valve (4) by turning it counterclockwise.
- Connect a clear hose (A) to the air bleeder valve (4) and route it to a collection bucket (B).



Keep the hose at least 15 cm [6 inches] (X) higher than the manifold.

- If the vehicle is equipped with a fuel blender, bypass the blender valve return line straight to the fuel tank and cap the blender connections using SAE45 degree fittings.
- Operate the fuel lift pump (1).



Keep pumping until all the air is removed and a solid stream of fuel develops in the clear hose (A).

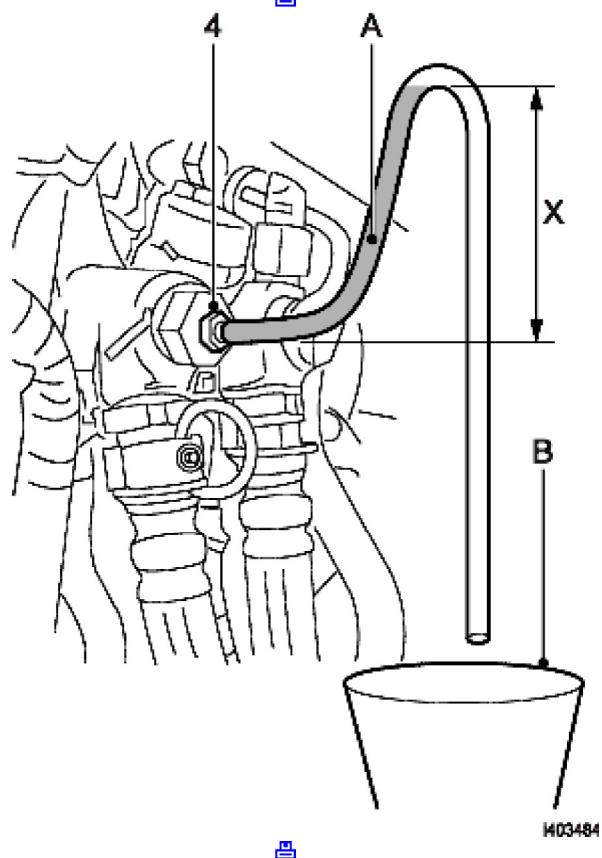
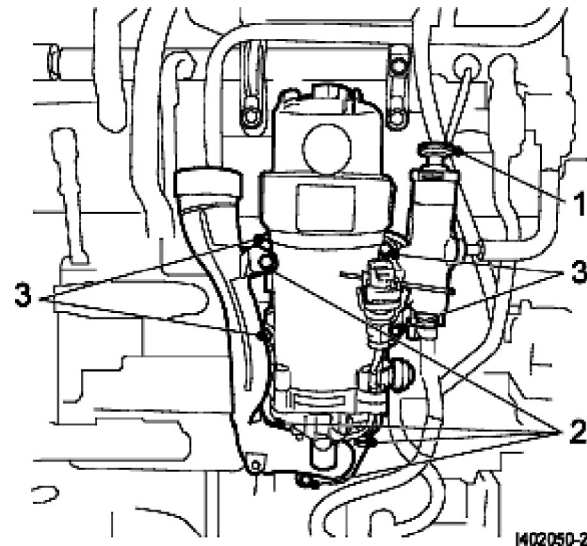
- Shut the air bleeder valve (4) by turning it clockwise and tighten it to the specified torque.
- Tighten the knob in the fuel lift pump (1) by pressing it in and turning it clockwise.
- Drain and disconnect the clear hose (A) from the air bleeder valve (4).
- Start the engine and run it at idle speed for 5 minutes to allow any remaining air in the system to escape.



- More cranking time might be needed due to some air in the high-pressure side of the fuel system.
- If the engine has not been running at idling speed for long enough and/or if the engine speed is increased too quickly, air can still be present in the fuel system.

- Restore fuel system connections:

- If the vehicle has a fuel blender with a manual shut-off valve, turn the blender shut-off valve to the 'Run' position and restore the blender valve return line to normal operation.
- If the vehicle has a fuel blender without a manual shut-off valve, reconnect inlet and outlet fuel hoses to the fuel blender and



perform steps 1 - 8 to remove the added air.

11. Dispose of the collected fuel.

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