



TECH TIP

ENGINE FUEL FILTER REPLACEMENT

GROUP: 22-FUEL SYSTEM
TECH TIP NO: TT-19-013
DATE: 8-6-2019

SUBJECT VEHICLES

2015 - 2020 Hino Conventional Trucks

OVERVIEW

The following tech tip is to assist in replacing the engine fuel filter.

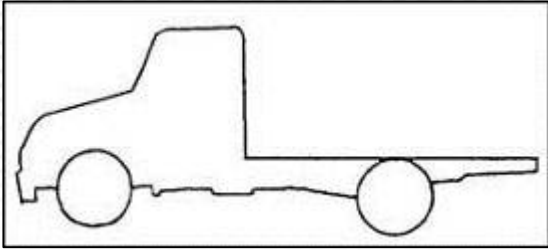
BEFORE YOU BEGIN:

- Read and understand all instructions and procedures before you begin the work.
- Read and follow all **WARNINGS** and **NOTICES** set forth in this publication. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a flat, level and solid surface.
- Place the gear shift lever in "Neutral" or "Park".
- Apply the parking brake firmly and confirm parking brake activation.
- Turn off the engine and remove the key from the ignition switch.
- Always wear safety glasses or goggles to protect your eyes.
- Place wheel chocks in front of and behind all the wheels to prevent the vehicle from moving.



VEHICLE PREPARATION

1. Park the vehicle on a flat, level and solid surface.



2. Confirm the engine is stopped, the ignition switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brake.



4. Chock all of the wheels.



5. Release the driver and passenger hood latches



6. Open the hood

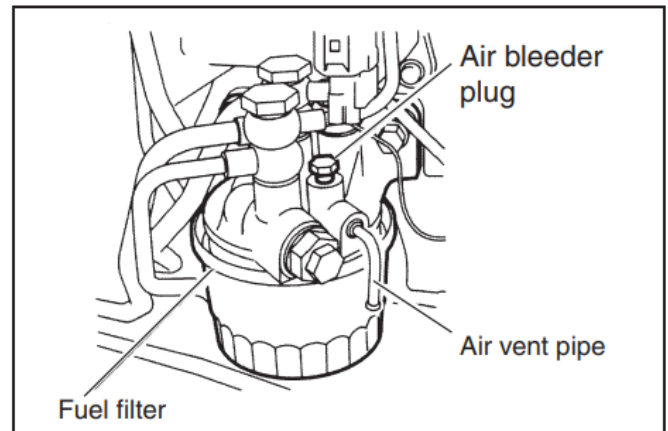
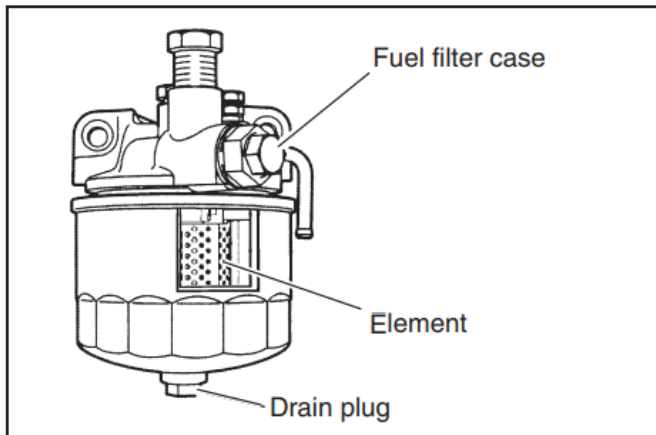


FUEL FILTER REPLACEMENT PROCEDURE

NOTICE

- Take care that no dirt or water gets onto the components during the work.
- When re-installing the parts, make sure that the contact surfaces between the parts are free of dirt.
- As air enters the fuel piping during the work, air venting must be performed after completion of the work.
- Use a genuine Hino fuel filter element

1. Place a container for catching the fuel under the drain plug.
2. Remove the drain plug, loosen the air bleeder plug, and drain the fuel and water collected in the fuel filter.

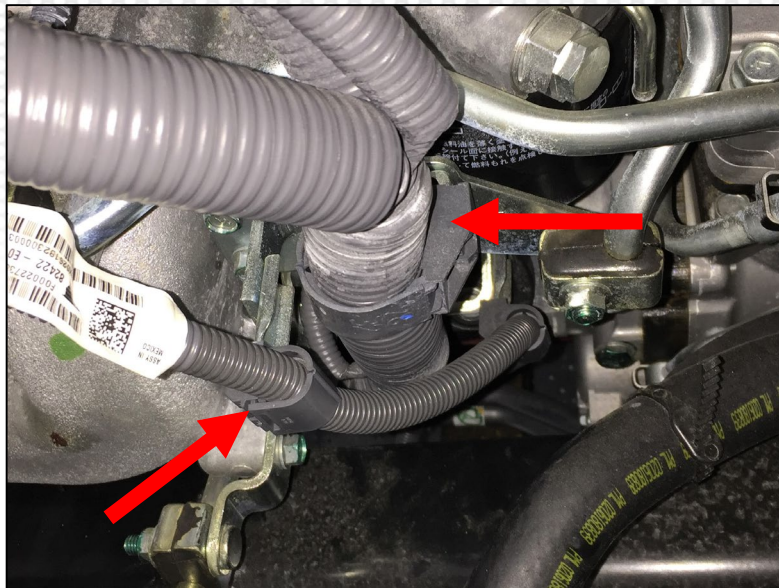


NOTICE

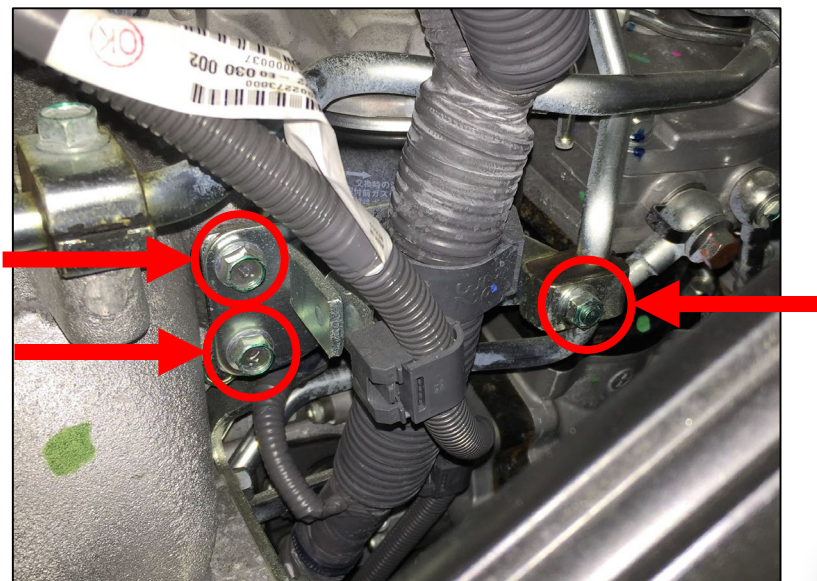
If the fuel is to be disposed of, observe the local disposal regulations.

3. Tighten the air bleeder plug.

4. Remove the 2 wire harness retention clips from the wire harness bracket.

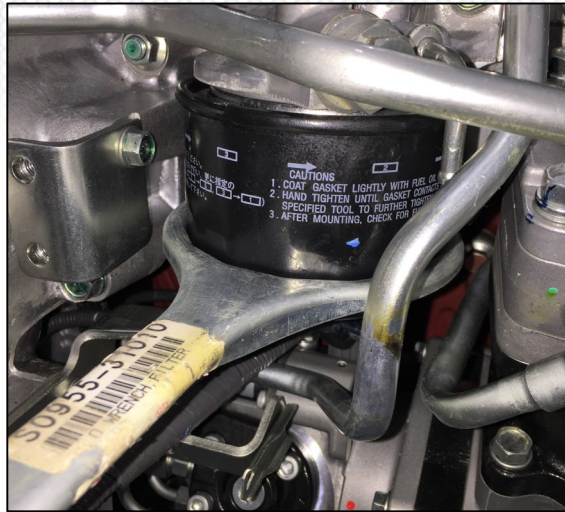


5. Remove the fuel line retention nut from the wire harness bracket and remove the 2 bolts that secure the bracket and remove the wire harness bracket.



6. Prepare a container and a shop towel to catch the fuel when the filter is removed.

7. Using the fuel filter wrench (S0955-31010) remove the fuel filter.



NOTICE:

- Confirm that the O-ring on the fuel filter case side has been removed.
- Remove dirt from the mounting surface for the O-ring.
- Do not reuse an O-ring.

8. Remove dirt from the fuel filter mounting surface.



9. Apply fuel to the surface of the O-ring on the new filter.



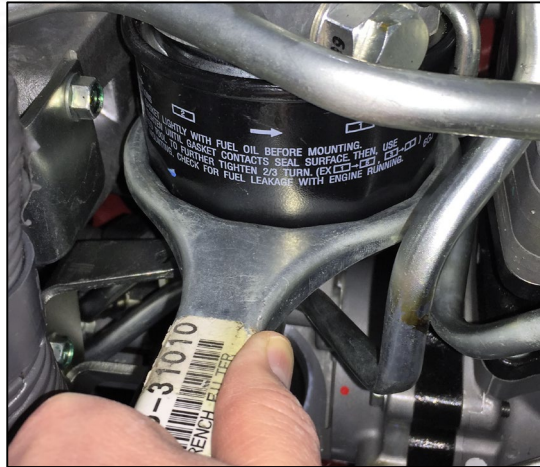
10. Install the new filter and then tighten by hand until the fuel filter O-ring contacts the filter housing.



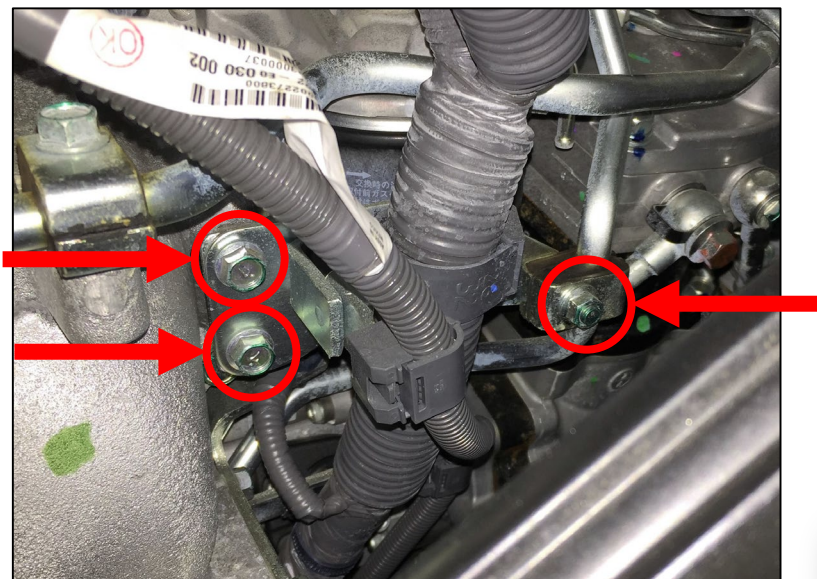
11. Use the oil filter wrench to tighten the element another $\frac{2}{3}$ of a turn.

NOTICE

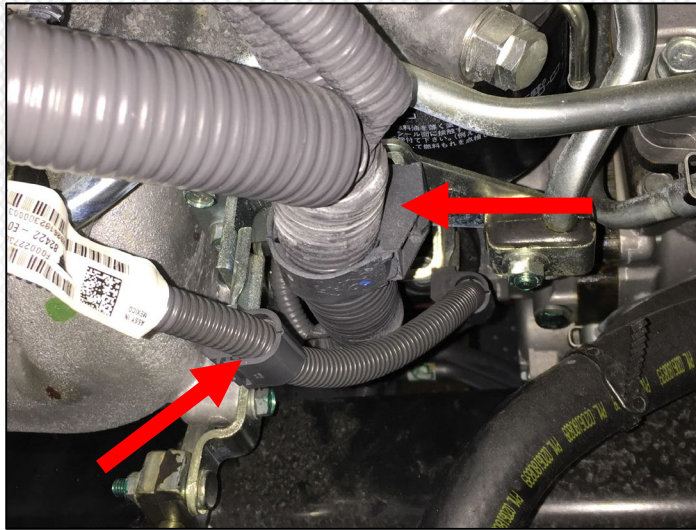
- Take care that the O-ring does not become twisted and damaged.



12. Reinstall the wire harness bracket with the 2 bolts and reinstall the fuel line retention nut.



13. Reinstall the 2 wire harness retention clips.



14. Bleed the air from the fuel system by following the Air Bleeding Procedure.

AIR BLEEDING PROCEDURE

1. Remove the vent cap from the top of the cover by turning the vent cap counterclockwise. Fill the cover with clean fuel. Reinstall the cap and tighten.



2. Start the engine. Increase engine speed for 2 to 3 minutes.

NOTICE

- Thoroughly wipe off any spilled fuel

3. After the air is purged, and the engine is running, loosen the vent cap. When the fuel level fills to following position, quickly tighten the vent cap. Tighten the vent cap until the vent clicks.

Fuel level: 12.7-38 mm {0.5-1.5 in.} above top of collar.



Proceed to the Final Inspection procedure, below.

FINAL INSPECTION:

1. To complete this tech tip, review and confirm the following:
 - After completion of the work, wipe up any spilled water or fuel.
 - After starting the engine, confirm that there is no fuel leakage.

WARNING

- Always drain the fuel into a container and dispose of it properly. Be careful not to spill any of the fuel.
- If fuel is spilled on engine parts, wipe it off entirely. It is dangerous since it can cause a fire which can result in serious personal injury or death.
- Do not smoke when performing maintenance on the fuel system.
- Keep flame and heat away from the fuel system since the fuel is flammable and can cause a fire resulting in serious personal injury or death.
- Any of these can result in personal injury and/or property damage due to fire

