

SB 2-220-001

JUNE, 2007

**ATTENTION: SERVICE MANAGERS /
PARTS MANAGERS**

**SUBJECT: AFTERMARKET ENGINE
AIR FILTER ELEMENTS**

Service Bulletin Information

Service bulletins are product modifications and/or product improvements that Autocar has determined will enhance the operation of the truck.

This bulletin provides information regarding field service replacement of the primary engine air filter element. Autocar has learned that in some cases, Autocar truck owners have replaced the air filter element with a filter element which is not recommended by the manufacturer of the air filtration system. This service bulletin describes the correct replacement filter element and the correct filter replacement procedure.

Parts

Autocar recommends that only genuine replacement Donaldson air filter elements be installed on Autocar trucks because they provide the best fit with the existing air filtration system. If a Donaldson filter element is not used, truck owners must ensure that cross-reference lists are accurate. Autocar and Donaldson will not be responsible for damage caused by an engine's intake of unfiltered air which results from the use of an alternative replacement air filter element.

Repair

Verify the air filter element part number and replace the filter according to the **REPAIR PROCEDURE** beginning on *page 2*.

Continuous Product Improvement

Autocar strives to continually evaluate and improve its trucks' performance in the field. It is our goal that every truck performs to the high standards by which Autocar trucks are built. While we are committed to continuous product improvement, Autocar is not required to update chassis after they have been put into service.

SAFETY NOTICES

WARNING

To prevent eye injury, always wear eye protection when performing vehicle maintenance, service, or inspection.

DANGER

Before working on a vehicle, turn the engine to off, set the parking brake, place the transmission in neutral and block the wheels. Failure to do so can result in unexpected vehicle movement, resulting in serious personal injury or death.

TAGOUT/LOCKOUT PROCEDURES

Before entering the vehicle or vehicle body, read and follow OSHA regulations concerning entry and working in "CONFINED SPACE" OSHA 1910.146 and "LOCKOUT/TAGOUT" OSHA 1910.147.

Follow OSHA regulations while performing any work on the vehicle.

The vehicle must be disabled by the following steps before proceeding:

1. Place the transmission in NEUTRAL.
2. Set the parking brake.
3. Shut the engine OFF.
4. Turn the battery disconnect switch OFF.
5. Lock cab doors, keep the key in your pocket, and block the wheels before entering the body or performing any work on the vehicle.
6. Place magnetic "DANGER" signs on both cab doors before entering the body or performing any work on the vehicle.

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REPAIR PROCEDURE

STEP 1: Determine the correct replacement filter

- Identify the replacement part number for the air filter element. The replacement part number is shown on a decal, applied to the air filter assembly (Figure 1).

NOTE: The part number for the air filter element may be different than the part number shown in Figure 1.

NOTICE

Failure to replace the air filter element using the correct part number can result in an inadequate seal between the filter element and the air filter housing. An inadequate seal will allow unfiltered air to enter the engine which will cause accelerated wear and damage to the engine.

NOTICE

If a genuine Donaldson filter element is not used as replacement, it is crucial that any other manufacturer's air filter element is accurately cross-referenced and verified to be the correct service replacement part.

Engine failures which are the result of unfiltered air entering the engine through an incorrectly installed or incorrectly designed replacement air filter element should be directed to the specific air filter element's manufacturer, or to the agent designated by the filter's manufacturer.

Air filter element part number

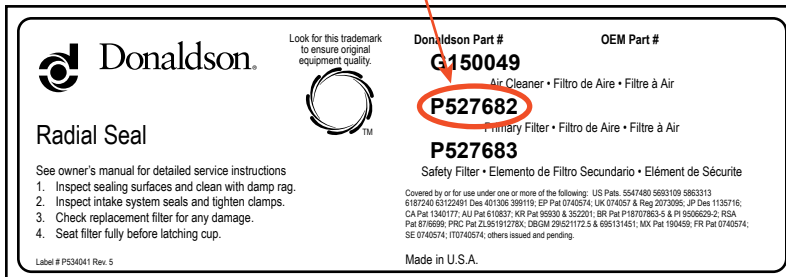


Figure 1

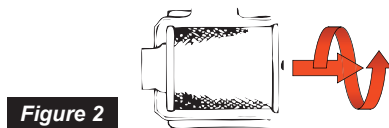


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STEP 2: Remove the air filter

- Unfasten or unlatch the service cover. Because the filter element fits tightly over the outlet tube to create the critical seal, there will be some initial resistance in breaking the seal.
- Gently move the end of the filter element back and forth to break the seal then rotate while pulling straight out (*Figure 2*).

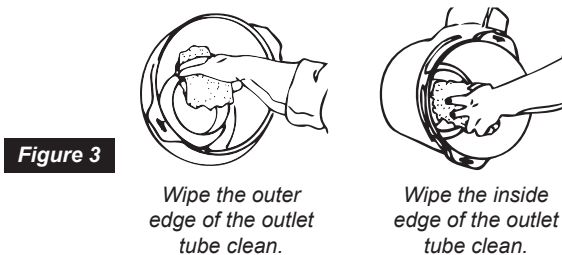


- Avoid knocking the filter element against the housing.

NOTE: If the air filter assembly is equipped with a safety filter, replace it with every *third* primary filter change. Remove the safety filter in the same manner as the primary filter. Cover the air cleaner outlet tube to prevent any unfiltered contaminant from dropping into the engine.

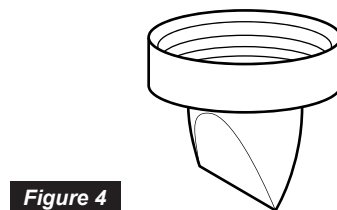
STEP 3: Clean both surfaces of the outlet tube and check the Vacuator™ valve

- Use a clean cloth to wipe the filter sealing surface and the inside of the outlet tube (*Figure 3*). Contaminant on the sealing surface could hinder an effective seal and cause leakage.



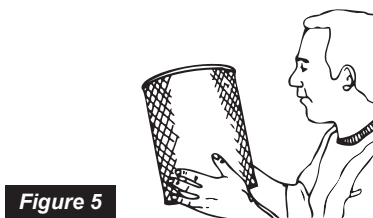
- Make sure that all contaminant is removed before the new filter element is inserted. Dirt accidentally transferred to the inside of the outlet tube will reach the engine and cause accelerated engine wear. Be careful not to damage the sealing area on the tube.

NOTE: If your air filter assembly is equipped with a Vacuator valve (*Figure 4*), visually check and squeeze the valve to make sure it is flexible and not inverted, damaged or plugged.



STEP 4: Inspect the old air filter for evidence of air leaks

- Visually inspect the old filter element for any signs of leaks (*Figure 5*). A streak of dust on the clean side of the filter is a clear indicator of an air leak.



- Correct the cause of any air leaks before installing the new filter element.

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STEP 5: Inspect the new air filter for damage

- Inspect the new filter element carefully, paying attention to the inside of the open end, which is the sealing area (*Figure 6*).



Figure 6

- NEVER install a damaged filter element.

NOTE: A new radial seal filter may have a dry lubricant applied to the seal to aid installation.

STEP 6: Insert the new radial seal filter properly

- If the vehicle is equipped with a safety filter, it should be seated into position before installing the primary filter element.
- Insert the new filter element carefully. Seat the filter by hand, making certain it is bottomed-out in the air cleaner housing (*Figure 7*).

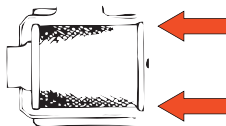


Figure 7

- The critical sealing collar will stretch slightly, adjusting itself to distribute the sealing pressure evenly.
- To complete a tight seal, apply pressure by hand at the outer rim of the filter element, not the flexible center.

Avoid pushing on the center of the urethane end cap.

NOTICE

Never use the service cover to push the filter element into place. Using the cover to push the filter in could damage the air filter housing, cover fasteners, and will void the air filter assembly warranty.

- No cover pressure is required to hold the seal between the filter element and the filter housing.
- If the service cover contacts the filter element before the cover is seated, remove the cover and push the filter (by hand) deeper into the air cleaner housing. The cover should then install without any additional force.
- Fasten the service cover.

STEP 7: Check air intake piping for a tight fit

- Make sure that all mounting bands, clamps, bolts, and connections in the entire air intake system are secure.
- Check for holes in the air intake piping and repair if needed.

Any leaks in the intake piping will allow unfiltered air directly into the engine.

Please direct all questions regarding this service bulletin to: info@autocartruck.com or call the service hotline at 877.973.3486, extension 6062.