



Installation Instructions

18SP590 – Series 60[®] Coolant Filter Service Kit P/N: 23534474

Introduction

The gear case-mounted coolant filter adaptor assembly, P/N: 23529234, has been superseded for service use by the P/N: 23534474 service kit. Kit contents are listed in Table 1.

NOTE:


Due to changes in the type and orientation of fittings used for the new adaptor assembly, **new hose assemblies must also be used**. The former hose assemblies cannot be used with the new adaptor.

Part No.	Quantity	Description
23533617	1	Coolant Filter Adaptor Assembly
23533732	1	Hose Assembly, 12.4 in. long
BALM0394	1	Hose Assembly, 41.9 in. long
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Table 1 P/N: 23534474 Service Kit Contents

Installation

Perform the following steps for installation:

 WARNING: PERSONAL INJURY
<ul style="list-style-type: none">• To avoid injury from scalding, drain the radiator when the engine and coolant are cool.

1. Allow engine to cool and drain the cooling system, saving coolant in a clean container if reuse is planned.
2. Remove existing coolant filter and discard.
3. Disconnect the hose assemblies where they attach to the former P/N: 23529234 coolant filter adaptor, shown in Figure 1.

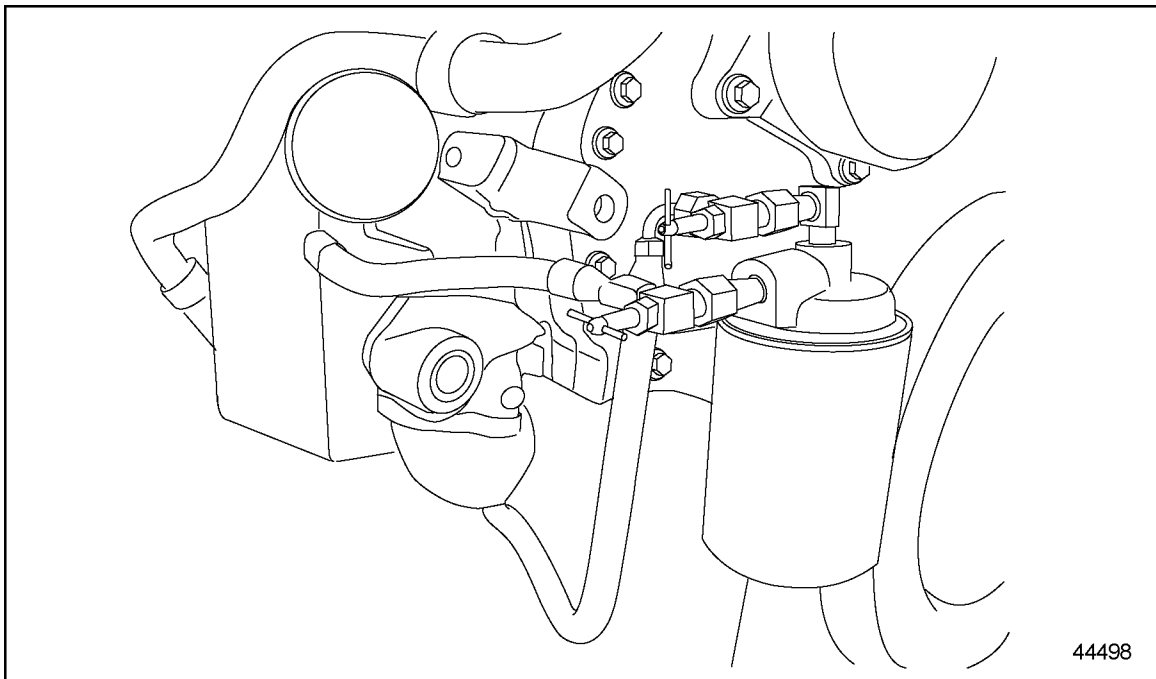


Figure 1 Former P/N: 23529234 Coolant Filter Adaptor Assembly

4. Remove the adaptor and discard, saving the three bolts that attach it to the gear case.
5. Install the new, current P/N: 23533617 filter adaptor assembly, as shown in Figure 2, reusing the P/N: 11509512 bolts.

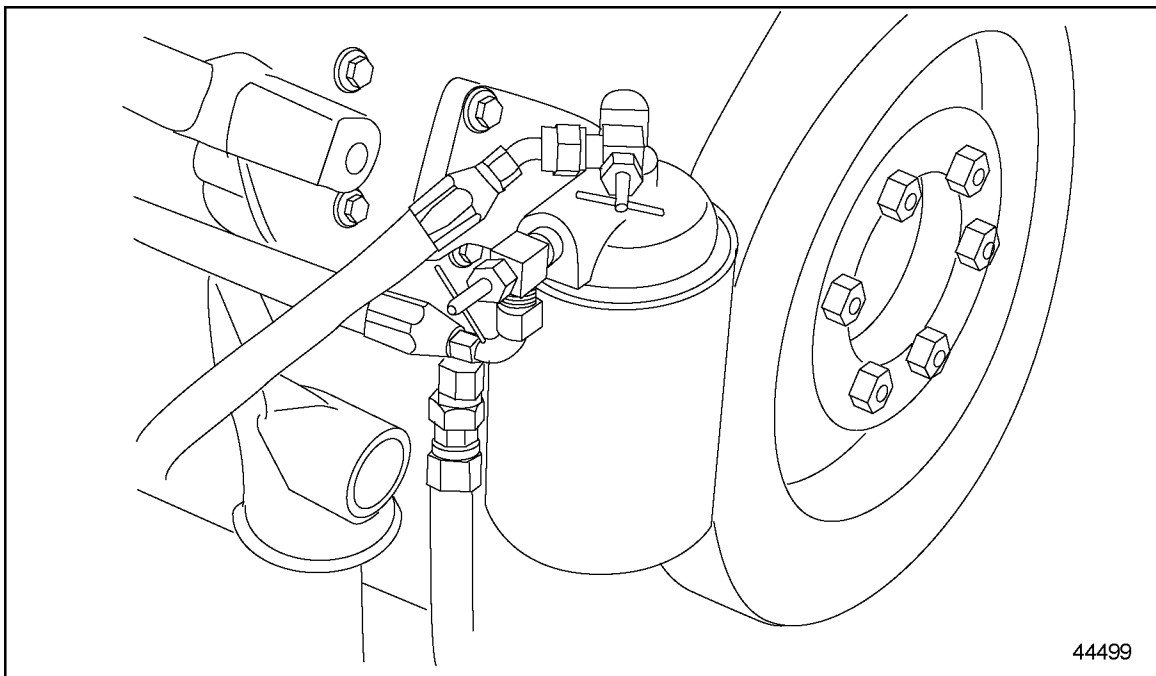


Figure 2 Current P/N: 23533617 Coolant Filter Adaptor Assembly

NOTE:

Check the bolts to make sure they are fit for reuse. If not, or in doubt, use new bolts.

NOTE:

Make sure both valves on the adaptor assembly are open.

6. Remove and discard the former P/N: BALV0095 hose assembly. This is the short hose that runs from the water pump to the inlet side of the adaptor assembly.

NOTE:

“IN” and “OUT” port labels are cast into the top of the adaptor.

7. Install the new P/N: 23533732 hose assembly in its place and tighten the fittings.
8. Remove and discard the former P/N: BALV0410 hose assembly. This is the long hose that runs from the outlet of the adaptor assembly along the right side of the engine to a fitting in the oil cooler housing.
9. Install the new P/N: BALM0394 hose assembly in its place and tighten the fittings.

NOTE:

The end of the hose assembly with the 90-degree fitting attaches to the adaptor assembly and the end with the straight fitting attaches at the oil cooler.

NOTE:

Reuse the former P-clips and spacers for hose routing. Replace any clips and spacers that are worn. Make sure that none of the hoses contact one another or other chassis parts.

10. Install a new coolant filter per the guidelines published in document 7SE298, Coolant Selections.
11. Refill the engine cooling system.

NOTE:

The old coolant may be reused provided it meets the 7SE298 specification, otherwise use new coolant that meets that same specification.



WARNING:

PERSONAL INJURY

- Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.
- Always start and operate an engine in a well-ventilated area.
- If operating an engine in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system or emission control system.

 **CAUTION:**
EXHAUST FUMES

To avoid injury or injury to bystanders from fumes, engine or vehicle fuel system service operations should be performed in a well-ventilated area.

12. Start the engine and run to normal operating temperature.
13. Check for leaks and repair as necessary.

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