

DETROIT DIESEL



Installation Instructions

18SP608 – Series 60[®] Oil Sampling Valve

KIT DESCRIPTION

This kit (P/N: 23534704) contains all the necessary parts for installation of an oil-sampling valve on Series 60 EGR engines. This valve taps into an oil passage in the front left side of the gear case to facilitate the removal of oil samples from the engine.

KIT CONTENTS

Table 1 is a description of part numbers and quantities included in the kit.


Part Number	Description	Quantity
5249900304	Bolt	1
5180370	Copper Washer	1
23533541	Adaptor	1
8925033	45-Degree Elbow	1
23524265	Oil Sampling Valve	1
18SP608	Instruction Sheet	1

Table 1 Oil Sampling Valve Service Kit (P/N: 23534704) Components

INSTALLATION PROCEDURE

OIL-SAMPLING VALVE INSTALLATION

Install the oil-sampling valve as follows (see Figures 1 and 2):

 WARNING:
PERSONAL INJURY
To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

1. Make sure the engine is turned off and is cool to the touch.

2. Remove the bolt from the front of the gear case. Install new bolt and copper washer in the gear case. Torque to 114 N·m (84 lb·ft).
3. Remove the ¼ “ NPT pipe plug recessed deep into the side of the gear case.
4. Install adaptor into the side of the gear case and torque to 55 N·m (41 lb·ft).
5. Install the 45-degree elbow into the adaptor. Hold adaptor with a wrench while tightening and orient elbow to a vertical position.
6. Install oil-sampling valve into the elbow and tighten securely. It may be necessary to use a wrench on the elbow to hold it in position. Orient the valve so that it is pointing straight out to the side.

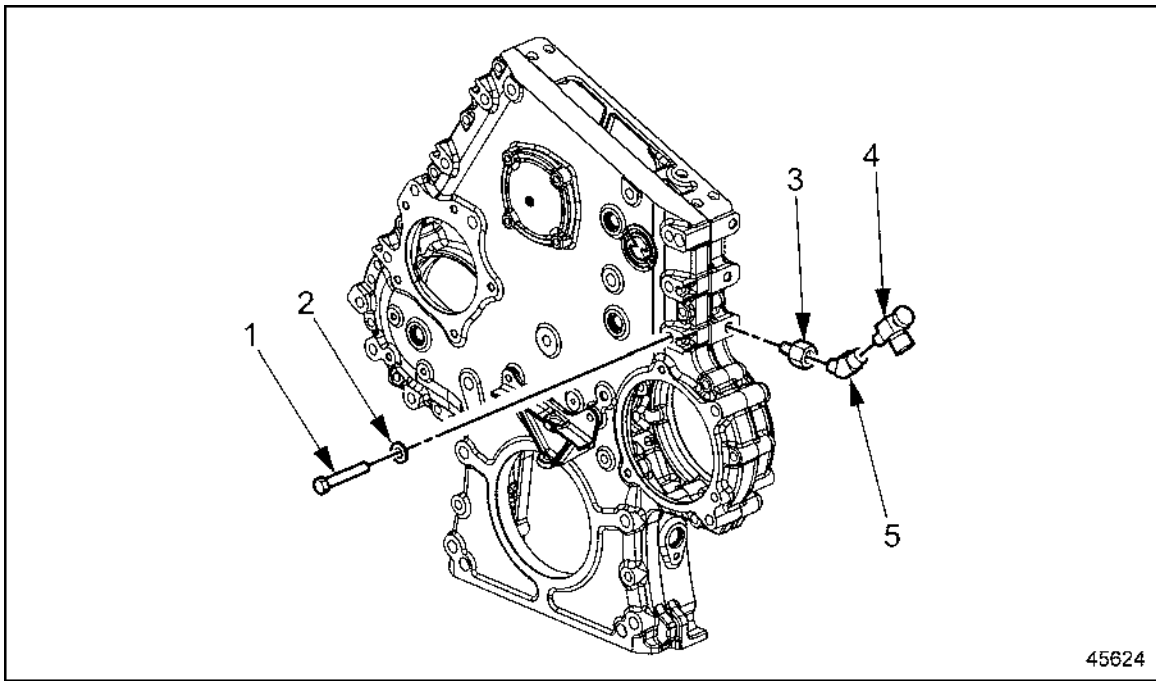
 **WARNING:**

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.**

7. Run the engine and check for oil leaks.



1. Bolt
2. Copper Washer
3. Adaptor
4. Oil Sampling Valve
5. 45-Degree Elbow

Figure 1 Oil Sampling Valve Installation

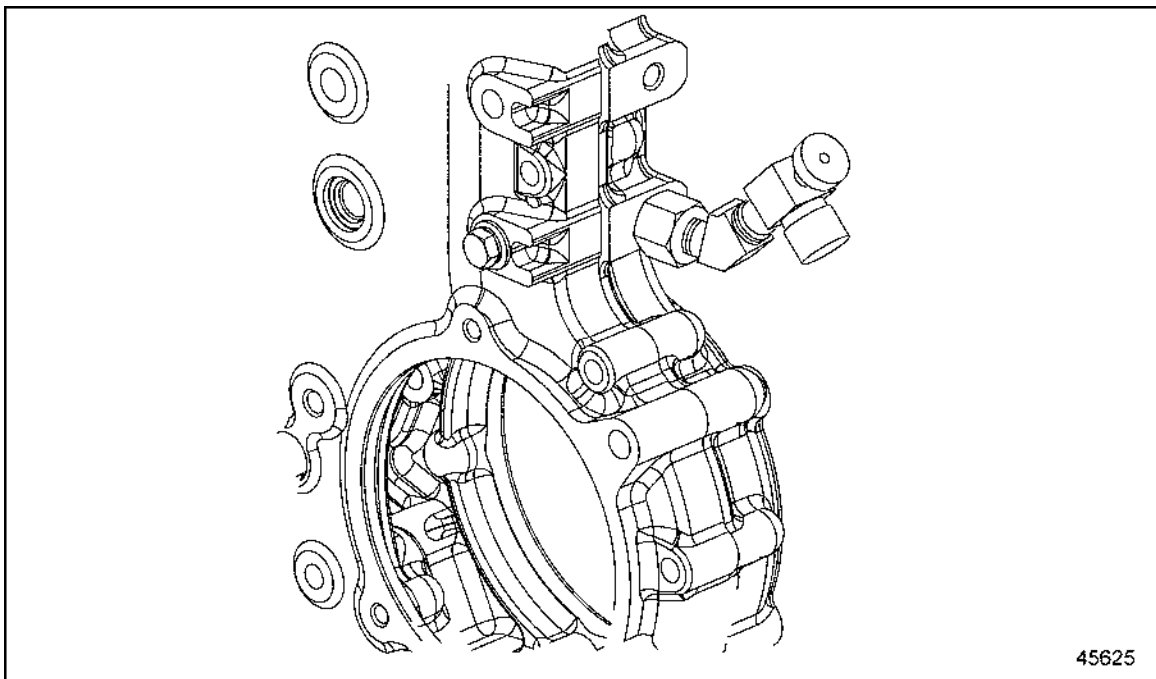


Figure 2 Completed Oil Sampling Valve Installation

DETROIT DIESEL



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