

This SMS replaces Service Manual Supplement 17-06, "Preventive Maintenance, VNL, VNM, with Rassey Slave Cylinder" (09.2000), publication no. PV776-145460.

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This information is a supplement to Service Manual Group 17, "Preventive Maintenance, VNL, VNM," publication no. PV776-TSP21358.

Preventive Maintenance, VNL, VNM
Rassey Slave Cylinder

Clutch Lubrication

(Effective from November 2000)

The clutch linkage maintenance procedure has been revised (see "Clutch Lubrication" page 2). To maximize the life of the clutch linkage and minimize adjustments needed, follow the recommended list of lubrication points for the clutch system. These steps must be followed for component warranty to stay in effect.

System check

Clutch Lubrication

See also "Clutch Lubrication" page 1.

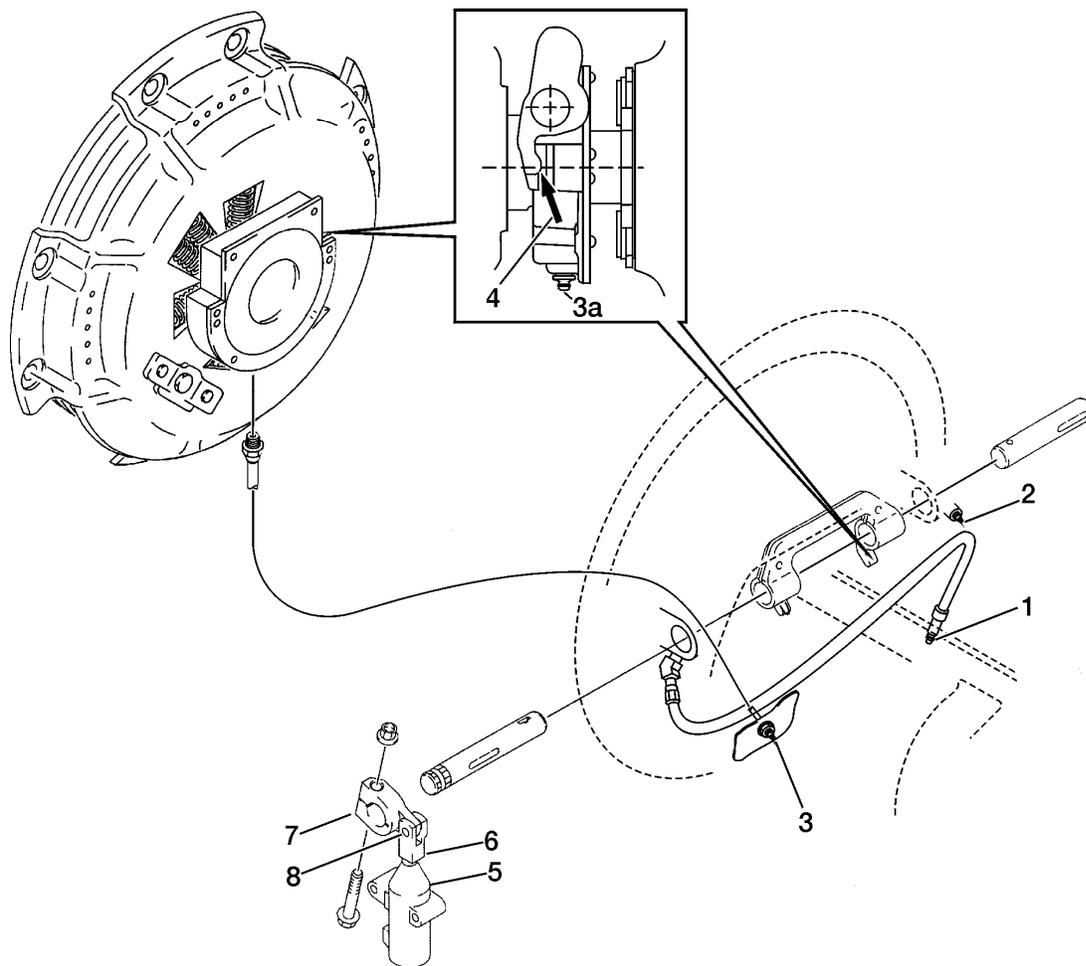


Fig. 1: Clutch Components

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Recommended grease for the release bearing is a high quality NLGI #2 lithium soap grease with EP additives. This type of grease can also be used for the linkage.

These steps should be done to the clutch every 20,000 –24,000 km (12,500 –15,000 miles).

 **DANGER**

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

These steps are the recommended maintenance for the clutch release mechanism and the recommended service procedure for the vertically mounted Rassey slave cylinder:

- 1 Grease the cross-shafts on left and right sides (1 and 2); see Fig. 1: Clutch Components, page 2. Depending on the option, the lubrication points may be lube fittings directly on the shaft bearings in the bell housing or a hose from the right side fitting pulled down to the lower part of the transmission on either the right or the left side.

- 2 Grease the release bearing. The lube fitting may be mounted in the lower inspection cover (3), connected to the bearing with a hose. The fitting can also be installed directly in the bearing (3a), in which case the inspection cover must be removed for servicing; see Fig. 1: Clutch Components, page 2.

Note: The inspection cover must be reinstalled after servicing. If the cover is not in place, dirt and moisture is drawn into the clutch area; this can decrease the life of clutch and linkage. A failure related to a missing cover is not covered under warranty.

- 3 Apply a small amount of grease on the wear pad surface (4) where the release fork fingers make contact. This is a newly introduced service point and will decrease the need for frequent clutch adjustment or repair.
- 4 Also check and service a vertically-mounted Rassey slave cylinder (5) every 6 months. For horizontally mounted cylinders, service according to previously released service information.

- Drain the hydraulic fluid. Refill with new fluid and bleed the system.
 - Remove the slave cylinder and boot. Make sure the piston is pushed all the way down. Use a brake part type solvent to clean out the cylinder bore and boot. Lubricate the bore with Raybestos BAF-12 spreading it liberally on the walls until the oil is about 3 mm (1/8 in.) above the piston top.
Note: BAF-12 may be obtained at any local automotive parts store that carries Raybestos products.
 - Inspect the yoke (6), pin (8), and lever(7) for wear; see Fig. 1: Clutch Components, page 2. Replace as necessary.
 - Reinstall slave cylinder and boot.
- 5 If needed, see Group 41 in the Volvo Service Information for information on proper clutch or clutch brake adjustment procedures.