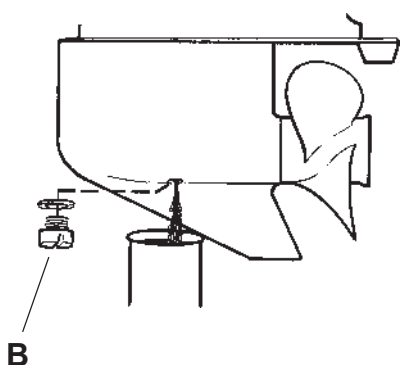


Oil level. Check

Trim the drive to its normal running position. Remove the dipstick (A) and check the oil level covers the entire marked area. Add oil if required through the dipstick hole. If oil level is low, add only enough lubricant to bring the oil level within the full range of dipstick.

⚠ IMPORTANT! Always screw the dipstick all the way home in dipstick tube before reading of the oil level.

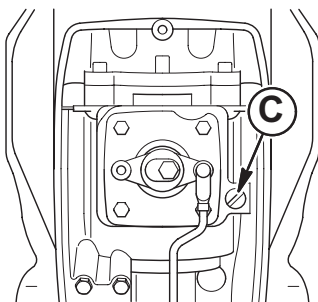


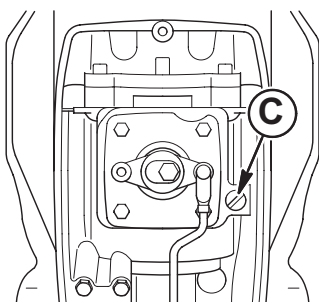
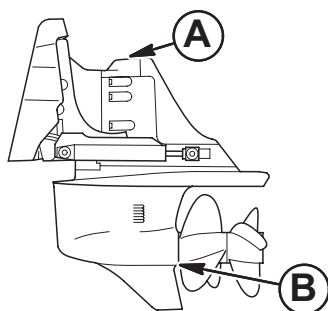
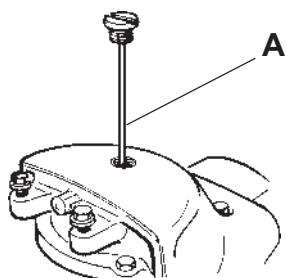
Oil. Replacement SX drive

Trim the drive to its normal running position. Remove the oil dipstick (A). Remove the plug (B) on the underneath of the propeller gear housing and let the oil run out in to a suitable container. Reinstall the plug and gasket. If oil is colored grey then water has entered the drive. Contact authorized service personnel.

NOTE! Deposit the used oil at a properly designated disposal site.

Trim the drive up slightly. Remove the rear cover by removing the three retaining screws. Remove the oil level plug (C). Top up oil through the hole for the oil dipstick. Install oil level plug and lower drive to running position. Wait approx. 15 minutes to give the oil time to run down. (The dipstick should not be installed during the waiting time). Check the oil level. For oil quality and capacity: See chapter **Technical Data**.





Oil. Replacement DP-S drive

Place drive unit in the run (down) position. Remove propellers and mounting hardware. See chapter **Propellers**.

NOTE! Removing DuoProp propellers require the use of special tools.

Remove the oil drain plug (**B**) (below propeller shaft) and the oil level dipstick (**A**). Allow the drive unit to drain completely. Dispose of used oil in accordance with any applicable environmental regulations.

To fill the drive unit, remove the three screws securing the rear cover to access the oil level plug (**C**). Remove oil level plug.

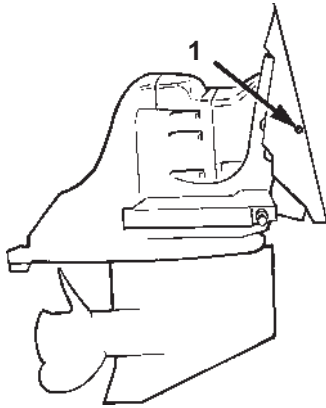
Fill drive unit with oil through the oil drain plug location (**B**). Fill slowly to purge air. The drive unit is properly filled when the oil appears at the oil level plug hole. For oil quality and capacity: See chapter **Technical Data**.

NOTE! If unable to fill the drive unit through oil drain plug (**B**), the drive can be filled by trimming it up a few degrees and filling through the oil level plug (**C**).

When filled to the proper level, install oil level dipstick and oil level plug first to prevent excessive oil loss, then the oil drain plug. Tighten oil level and drain plugs securely. Reinstall oil level plug, and place drive in the run (down) position. Remove dipstick (**A**) and check oil level. Reinstall dipstick and tighten securely.

Install propellers. Install rear cover and tighten screws securely. Check oil level with the dipstick, oil must appear on the full range of dipstick. Add oil if required through the dipstick hole.

NOTE! If drive unit was filled through the oil level plug (**C**), wait 15 minutes before checking oil with dipstick. This will help ensure all air is purged from the oil cavity. Leave dipstick (**A**) loose during waiting period.

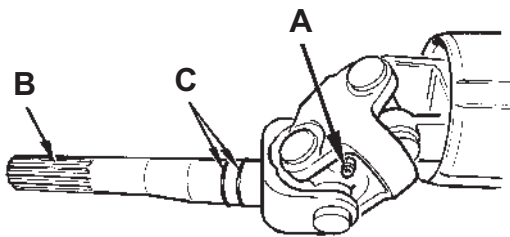


Lubrication. Primary shaft bearings

Remove the drive from the mounting fork. Grease the primary shaft bearing via the nipple (1) using a grease gun. Use an EP wheel bearing grease. Press in grease until it is forced out of the bearing. If the old grease indicates water contamination the bearing must be inspected and replaced if damaged.

⚠ WARNING! Removal of the drive requires special knowledge and tools. A falling drive can cause serious personal injury. Please contact your nearest authorized Volvo Penta dealer for assistance.

⚠ IMPORTANT! Failure to lubricate the gimbal bearing and universal joints each year will result in damage to the pivot housing and drive unit.



Lubrication. U-joint

Remove the drive from mounting fork. The U-joint is lubricated by the two lubricating nipples (A). Press in grease until it is forced out of the bearing. Use an EP wheel bearing grease.

NOTE! The splined joint on the shaft (B) must be greased using molybdenum grease. Lubricate the two O rings (C) with a little engine oil.

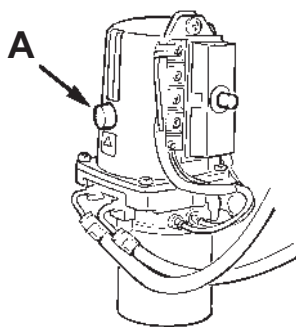
⚠ WARNING! Removal of the drive requires special knowledge and tools. A falling drive can cause serious personal injury. Please contact your nearest authorized Volvo Penta dealer for assistance.

Bellows. Replacement

Check the condition of the universal joint and exhaust pipe bellows **every year**. If there are cracks or any other defects, they should be replaced. They should be replaced every second year.

⚠ WARNING! Never work on the bellows or hydraulic components of the drive unless you have first locked the drive in the folded up position, in such a way that it can not possibly fall down. A drive which falls down can cause severe personal injury.

Bellows replacement means that the drive has to be removed from the drive shaft bearing housing. Drive shaft removal requires knowledge and special tools. Contact your Volvo Penta workshop for assistance.

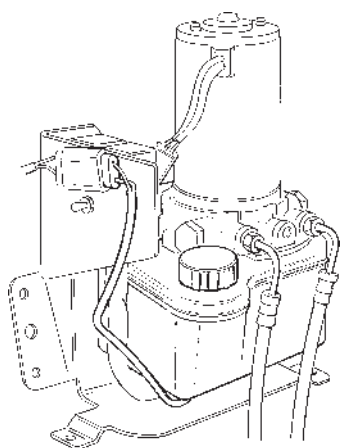


Power Trim pump . Oil level SX-C and DP-S drives

Trim up the drive completely and then remove the level/filling plug (A).

⚠ WARNING! The hydraulic system is under pressure. Before removing the filler plug the drive must be trimmed up completely so that the system is not under pressure. Always use a rag over the filler hole when the plug is being removed so that should the system be under pressure the oil does not spray out.

Check the oil level. The oil should reach the edge of the hole when the drive is completely trimmed up. Top up if necessary using ATF oil. Cleanliness is extremely important, no dirt may enter the drive when topping up with oil. Tighten the filler plug.



Power Trim pump.Oil level SX-M, and DP-SM drives

At the beginning of each boating season, check the oil level in the reservoir as follows:

Trim the drive in as far as possible. Check the oil level is between the MAX and MIN markings on the oil reservoir. Top up if necessary using ATF oil. Cleanliness is extremely important, no dirt must get into the drive when topping up with oil.

If the system has been drained, fill with new oil and trim the drive in and out 6 – 10 times to vent the system. Check the oil level and top up if necessary.