



Fig. 11 Various lubrication points on the powerhead should be maintained regularly to ensure a long service life including all rotating...

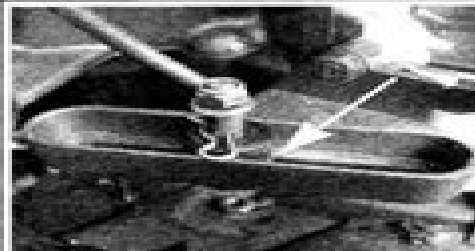


Fig. 12 ... or sliding linkage points and cable ends

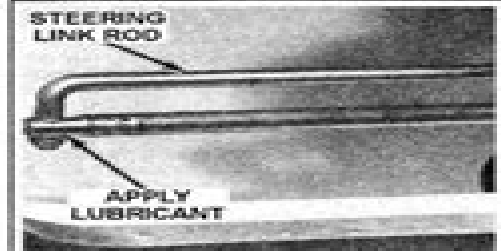


Fig. 13 Apply Yamaha All Purpose Grease to the steering link rod joint



Fig. 14 The swivel bracket usually contains one or two grease fittings



Fig. 15 The propeller should be removed periodically to clean and re-grease the prop shaft splines



Fig. 16 Any cawling clamp latches and/or cables should also be lubricated with Yamaha All Purpose Grease

Lubrication Inside the Boat

The following points inside the boat will also usually benefit from lubrication with Yamalube All Purpose lubricant:

- Remote control cable ends next to the hand nut. DO NOT over-lubricate the cable.
- Steering arm pivot socket.
- Exposed shaft of the cable passing through the cable guide tube.
- Steering link rod to steering cable.

Gearcase (Lower Unit) Oil

- See Figures 17 and 18

Regular maintenance and inspection of the lower unit is critical for proper operation and reliability. A lower unit can quickly fail if it becomes heavily contaminated with water or excessively low on oil. The most common cause of a lower unit failure is water contamination.

Water in the lower unit is usually caused by fishing line or other foreign material, becoming entangled around the propeller shaft and damaging the seal. If the line is not removed, it will eventually cut the propeller shaft seal and allow water to enter the lower unit. Fishing line has also been known to cut a groove in the propeller shaft if left neglected over time. This area should be checked frequently.

OIL RECOMMENDATIONS

Use only Yamaha Gear Case Lube or an equivalent SAE-90W gearcase oil.

■ Remember, it is this lower unit lubricant that prevents corrosion and lubricates the internal parts of the drive gears. Lack of lubrication due to water contamination or the improper type of oil can cause catastrophic lower unit failure.

CHECKING GEARCASE OIL LEVEL & CONDITION

- See Figure 19

Visually inspect the gearcase before and after each use for signs of leakage. At least monthly, or as needed, remove the gearcase level plug in order to check the lubricant level and condition as follows:

1. Position the engine in the upright position with the motor shut off for at least 1 hour. Whenever possible, checking the level overnight cold will give a true indication of the level without having to account for heat expansion.
2. Disconnect the negative battery cable or remove the propeller for safety.

CAUTION

Always observe extreme care when working anywhere near the propeller. Take steps to ensure that no accidental attempt to start the engine occurs while work is being performed or remove the propeller completely to be safe.

3. Position a small drain pan under the gearcase, then unthread the drain/filler plug at the bottom of the housing and allow a small sample (a teaspoon or less) to drain from the gearcase. Quickly install the drain/filler plug and tighten securely.
4. Examine the gear oil as follows:

- a. Visually check the oil for obvious signs of water. A small amount of moisture may be present from condensation, especially if a motor has been stored for some time, but a milky appearance indicates that either the fluid has not been changed in ages or the gearcase allowing some water to intrude. If significant water contamination is present, the first suspect is the propeller shaft seal.

Yamaha 70hp 2 Stroke Outboard Repair Manual

CL Gary



Yamaha 70hp 2 Stroke Outboard Repair Manual:

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