

Checking and Adding Stern Drive Oil

EXPANSION RESERVOIR (STANDARD)

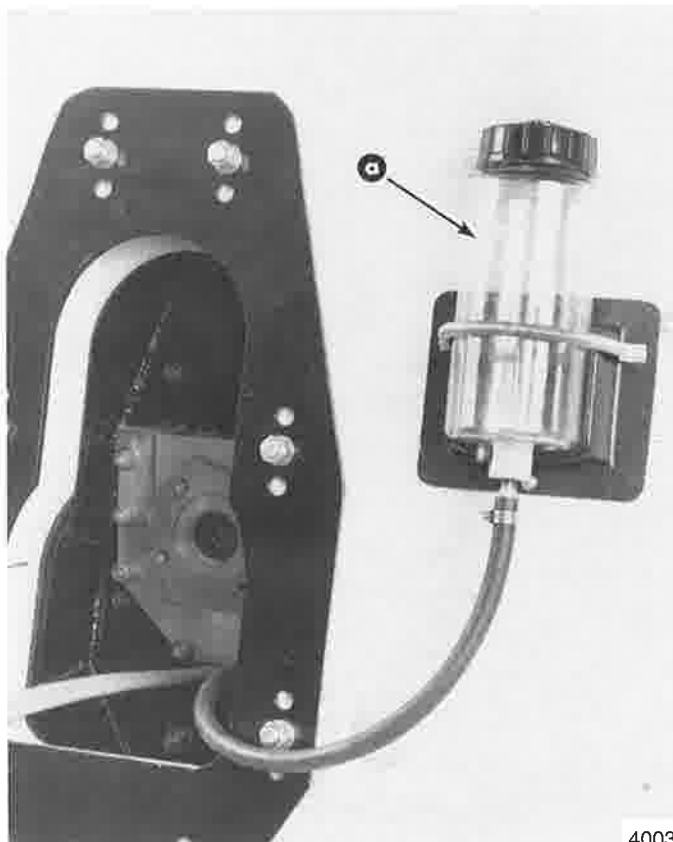
IMPORTANT: Oil reservoir is only used for drive unit oil expansion. Disregard "Oil Level Line" on reservoir sight window.



a - Oil Level Line (Disregard)

EXPANSION BOTTLE (WITH STAND-OFF)

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a - Oil Level Line (Disregard)

1. Position stern drive unit so that anti-ventilation plate is level.

⚠ WARNING

DO NOT remove oil vent plug when drive unit is hot from operation as hot, expanded oil may discharge if plug is removed.

2. Remove oil vent plug from drive shaft housing.
3. Check oil level - oil should be even with bottom edge of oil vent hole. If oil is at proper level, reinstall oil vent plug and sealing washer. If oil is low, proceed to STEP 4.
4. If oil level is low, plug oil vent hole (to create an air lock in drive unit); then, remove oil fill/drain plug, and insert Lubricant Pump into oil fill/drain hole.

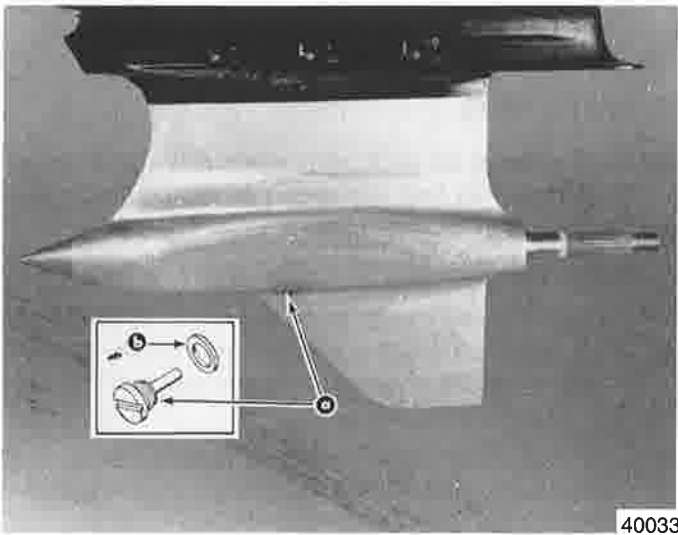
⚠ CAUTION

If more than 2 oz. (57 grams) of lubricant is required to fill drive unit, an oil leak is indicated. Find and correct cause for leak before unit is placed in operation.

5. Unplug oil vent hole; then fill drive unit (thru oil fill/drain hole) with lubricant until an air-free stream of lubricant flows from oil vent hole.
 - a. On the SSM III drive an auxiliary vent plug located on rear cover is provided. This plug, along with the normal oil vent plug, should be removed to bleed air from the drive. Fill to the auxiliary vent plug (c) first, then continue to fill to the normal oil vent plug (a).
6. Without removing lubricant pump from fill/drain hole, reinstall oil vent plug and washer.
7. Remove lubricant pump and quickly reinstall fill/drain plug and washer. Tighten securely.
8. Recheck oil level.



- a - Oil Vent Plug
- b - Sealing Washer
- c - Auxiliary Vent Plug - SSM III Drive Only



a - Oil Fill/Drain Plug
b - Sealing Washer

Oil Capacity - SSM II, III, IV, V and MCM III (Clubfoot)

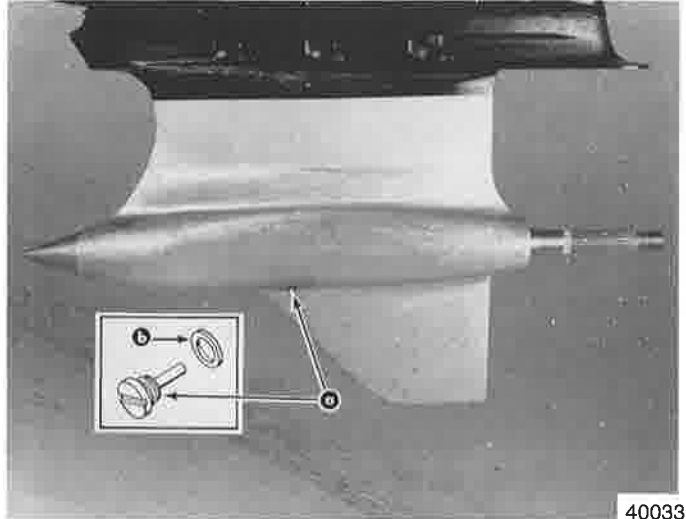
| | oz. | qts. | ltr. |
|----------------------|-----|------|------|
| MC II SSM | 144 | 4.50 | 4.26 |
| MC III (Clubfoot) | 180 | 5.63 | 5.32 |
| MC III SSM | 300 | 9.38 | 8.87 |
| MC IV - V SSM (Std.) | 216 | 6.75 | 6.39 |
| MC IV - V SSM (1") | 240 | 7.50 | 7.10 |
| MC IV - V SSM (2") | 264 | 8.25 | 7.80 |
| MC IV - V SSM (3") | 288 | 9.00 | 8.50 |

These are approximate due to minor differences in castings.

Checking Lubricant for Water

Periodically inspect lubricant for water, to ensure that drive unit seals are not leaking.

1. Trim drive unit to the full trim "Out" position. Remove fill/drain plug to take a sample of lubricant. If water is observed or if lubricant appears milky brown, drive unit is leaking and must be resealed.



a - Oil Fill/Drain Plug
b - Sealing Washer

2. Reinstall fill/drain plug. Tighten securely.

Changing Lubricant

⚠ CAUTION

If any water drains from fill/drain hole, or if oil color appears milky brown, a leak in drive unit may exist. Find and correct cause of leak before placing unit back in operation.

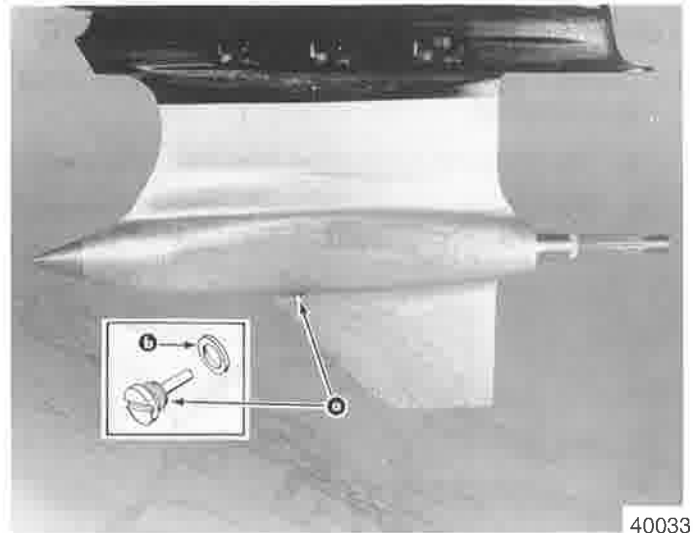
⚠ CAUTION

DO NOT attempt to fill drive unit thru oil vent holes, as air will be trapped in drive unit and unit will be damaged from lack of lubrication.

1. Position drive unit so that anti-ventilation plate is level.
2. Remove fill/drain plug and vent plug from drive unit, and allow lubricant to drain completely.
3. Using lubricant pump, fill drive unit thru fill/drain hole with lubricant (P/N 92-816026A2) until oil is even with bottom edge of hole.
4. Without removing lubricant pump from fill/drain hole, reinstall oil vent plug and sealing washer. Torque to 17 lb. in. (2 N·m).
5. Remove lubricant pump and quickly reinstall fill/drain plug and sealing washer. Tighten securely.
6. Recheck oil level after first use.



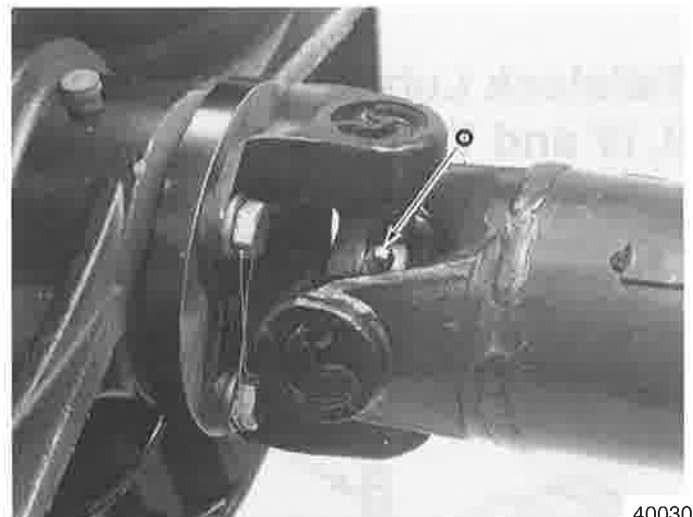
a - Oil Vent Plug
b - Sealing Washer
c - Auxiliary Vent Plug



a - Oil Fill/Drain Plug
b - Sealing Washer

Drive Shaft Lubrication

1. Lubricate drive shaft grease fittings with Optimal PD-1 (P/N 92-847208).



a - Grease Fittings