

V Maintenance

1. Fluid level check

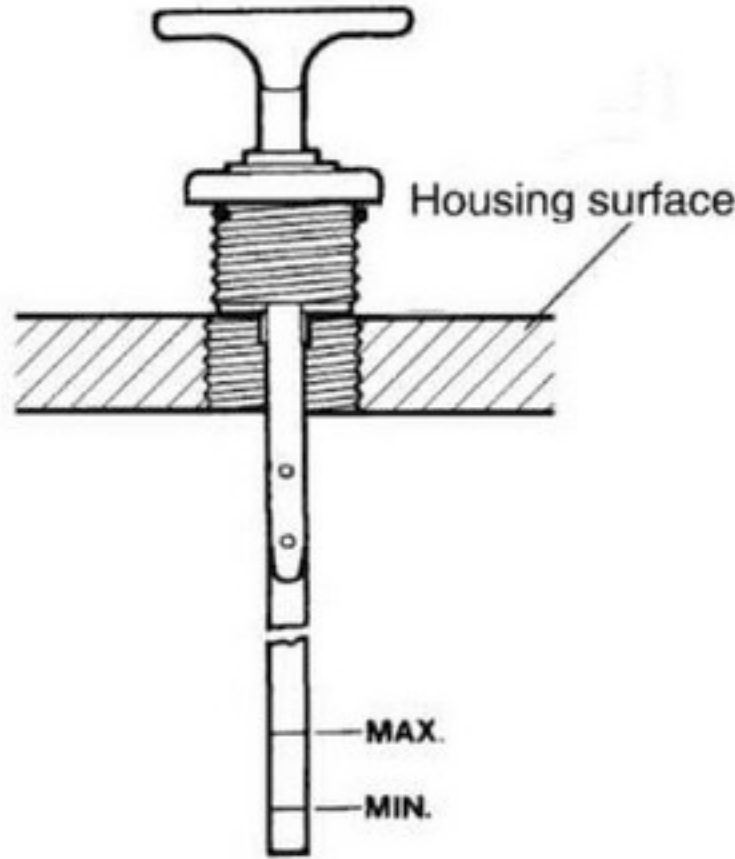
WARNING

Do not work on the transmission when being towed, or anchoring in a river because the propeller may rotate.

Transmission fluid level may be checked in cold or hot condition.

NOTE

Always check fluid level before operating transmission.



- 1.1 Loosen fluid dipstick (figure V-1, item 1) by turning the grip counterclockwise.
- 1.2 Wipe dipstick with a clean and dustfree cloth.
- 1.3 Insert dipstick do not screw in (figure V-2). Remove dipstick and check fluid level:
Fluid level has to be between minimum and maximum marks.
- 1.4 Check O-rings (figure V-2, item 1) for damage, replace if necessary.
- 1.5 Insert the dipstick and lock it by turning the grip clockwise.

2.3 Filling up with Transmission Fluid

2.3.1 Fill with the following quantities of Automatic Transmission Fluid (ATF), and add the amount required for cooler and pipelines. (Figure V-7)

- ZF 25 A:..... 1.91 US-qts (1,8 liters)
- ZF 25: 2.12 US-qts (2,0 liters)
- ZF 45 A:..... 2.65 US-qts (2,5 liters)
- ZF 45-1:..... 3.2 US-qts (3,0 liters)
- ZF 63 A:..... 4.2 US-qts (4 liters)
- ZF 63: 4.0 US-qts (3.8 liters)
- ZF 63 IV: 4.6 US-qts (4,4 liters)
- ZF 80 A / ZF 80-1A:5.8 US-qts (5.5 lt)
- ZF 80 IV/ ZF 80-1 IV: 7.4 US-qts(7.0 lt)

Operating temperature of the transmission:55÷80°C (131÷176° F).
A connection for a temperature probe has been provided.

Normal Operating Pressures (bar (psi))								
ZF 25	ZF 25A	ZF 45 A	ZF 45-1	ZF 63 A	ZF 63	ZF 63 IV	ZF 80 A ZF 80-1 A	ZF 80 IV ZF 80-1 IV
21.5-23.5 (312-341)	21.5-23.5 (312-341)	21.5-23.5 (312-341)	21.5-23.5 (312-341)	21.5-23.5 (312-341)	21.5-23.5 (312-341)	21.5-23.5 (312-341)	21.5-23.5 (312-341) 23.5-26.5 (341-385)	21.5-23.5 (312-341) 23.5-26.5 (341-385)