



# MERCRUISER SERVICE BULLETIN

Section: X (Miscellaneous)

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## Precautions To Be Observed When Installing, Servicing or Testing Power Tilt Assembly

### PRECAUTIONS TO BE OBSERVED WHEN INSTALLING, SERVICING OR TESTING POWER TILT ASSEMBLY

1. When installing hydraulic oil inlet line --
  - a. Start threads with fingers so that they will not crosstread and strip out.
  - b. Do not tighten excessively or threads of housing may be stripped.
2. After installing vent tube, remove cap followed by check ball, then replace cap. Failure to remove check ball will result in excessive internal pressures which can damage the unit.
3. After assembly, connect an ammeter in series with motor and battery before filling reservoir with oil. Operate the unit both up and down. Current should not exceed 12 amps at 12 volts. If current is higher, loosen 4 screws that hold gear body to reservoir end and move end plate slightly until current draw is 12 amps. Then retighten the 4 screws in such a sequence that will maintain 12 amps or less current draw.
4. Use only clean, uncontaminated oil to fill the reservoir.
5. Overfilling of the reservoir will create excessive internal pressures that will damage the "O" gaskets and result in an inoperative power tilt assembly.
6. Hydraulic tilt arms must be in the "Down" position when filling reservoir. Add fluid until level is even with bottom of oil filler hole.
7. The motor of this unit is protected by an internal thermal circuit breaker. If motor stops operating after excessive use, or after being installed, (holding switch in "Up" position after unit has traveled to its limit) the circuit breaker will open. Allow the unit to cool at least one minute, until the circuit breaker closes, before reactivating the mechanism.
8. If the unit creeps down when it is in the "Up" position, it is possible that there are contaminants in the oil, and they are not allowing check balls to seat properly. Activate unit down and up 2 or 3 times to remove contaminant from check ball seat. If the unit still creeps, drain oil, remove reservoir end plate and thoroughly clean inside of reservoir. Refill reservoir with clean oil and operate mechanism several times. Drain oil and, again, refill with clean automatic transmission (Type A) oil.
9. Do not rotate base or make any modification to power tilt pump assembly, as it will not function properly. Any modification, without proper authority in writing from Kiekhaefer Corporation, will void warranty.

*See Service Bulletin No. 65-1, Section X, dated 7/22/65, for "Bleeding Air from Hydraulic Tilt System".*

#### WARRANTY ON HYDRAULIC PUMPS WILL NOT BE HONORED IF

1. Threads are stripped out of pump housing.
2. Contaminated oil, wrong oil or dirt is found in pump reservoir.
3. Modifications are made to pump which result in its malfunction.