

MAINTENANCE

**** IMPORTANT ****

Failure to carry out the maintenance and service as described herein will invalidate the warranty.

Recommended Lubricants

Gearbox Oil: SAE 90, e.g. Shell Omala 320, Castrol Alpha SP 320.

Mainshaft & Bearing: Marine Grease, Lithium based or Lithium complex based, e.g. Duckhams 'Keenol'; 'Castrol LMX'. Do not use soap based grease.

Above deck Components: CRC 3097 Spray.

1. **Prior to Season** - the above deck components should be removed and greased following the instructions under steps 5, 11 and 12 of the installation instructions.

Check level of oil in gearbox. If necessary top up as per step 6 of preparing the windlass instructions.

The underdeck components should be sprayed, preferably with CRC3097 "Long Life" or alternatively, CRC6-66 or WD40.

Particular attention should be paid to the motor on electric units, including the motor terminals, footswitch terminals, terminals on the Reversing Solenoids plus the battery and isolator terminals.

2. **Six-monthly** - repeat procedure under item 1 above.
3. **End of Season** - before storage carry out procedure under item 1.
4. **Above deck components** - clean the Windlass with a cloth damp with Kerosene (paraffin). Spray preferably with CRC3097 "Long Life" or alternatively, CRC6-66 WD40. Polish off with a clean non-fluffy cloth.
Regular use of CRC3097 "Long Life" will assist maintaining the bright chrome finish.
Natural lustre of bronze units can be restored by polishing with mild abrasive liquid polish. **Don't use on chrome units.**

SERVICING OF GEARBOX

The gearbox is a totally self contained sealed unit. Providing the Windlass is not abused this unit should give years of trouble free service.

Every three years the gearbox should be removed, oil drained, cleaned and oil replaced with SAE 90, e.g. Shell Omala 320, Castrol Alpha SP 320.

If further maintenance is required, refer to drawing B200832 (Electric Models) or B200833 (Hydraulic Models) and accompanying parts list, for disassembly.

SERVICING OF MOTOR - Electric Units

If necessary, the motor can be removed from the gearbox without draining the gearbox oil as the gearbox is a sealed unit.

The motor is removed by undoing two bolts item 47 and washers items 48 and 49 (refer to assembly drawing B200832).

A replaceable drive pin item 50 is a press fit in the output end of the drive shaft. This pin engages the slot in the worm item 42.

Providing the Windlass is properly installed with the Maxwell Breaker/Isolator Panel, and the Windlass is not abused, trouble free operation can be expected.

Replacement brush sets are available - order Part No. SP 1383 - 12 Volt, Part No. SP 1384 - 24 volt.

SERVICING OF MOTOR - Hydraulic Units

If necessary, the motor can be removed from the gearbox without draining the gearbox oil as the gearbox is a sealed unit.

The motor is removed by undoing two bolts, item 47, washers items 48 and 49, and nuts item 52. (Refer to drawing B200833).