1. Insert tumbler in side of Quick-Loc™.

2. Lift drive boss and drum from pedestal. Remove drive boss, plunger and springs.

3. Thoroughly clean all parts with kerosene or gasoline and dry with a clean, lint-free cloth. Jaws and ratchets are in good condition.

4.lightly grease bearing recess, above.

5. Line up drum and drive boss, checking alignment of parts.

6. Check action of plunger against springs and ratchet teeth.

7. Reassemble with plate in station marked 'C' for clockwise rotation of drum.

8. Testing: Pull drum and drive boss against plunger, checking engagement of parts.

**MAXWELL 16AP 16BP 16CP**

One-speed Direct drive — Ratcheting

**Drawing number C 100017**

**MAXWELL**

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*Designate A for Aluminum or B for Bronze or C for Casting*
1. Securely loosen drive and drum screws.

2. Lift drive and drum from pedestal.

3. Remove and thoroughly clean all parts of the mechanism and check for wear or damage.

4. (a) Lightly grease pawls, needle roller bearings, and brake bushing.
(b) Recheck alignment of pawls and brake bushing.
(c) Check action of pawls against springs.
(d) Check drum drive beat and drum brake rotation.
(e) Check drum drive beat and drum brake rotation.
(f) Check drum drive beat and drum brake rotation.
(g) Check drum drive beat and drum brake rotation.
(h) Check drum drive beat and drum brake rotation.

5. (a) Refit drum and drive bosses, checking engagement of pawls.
1. Insert screwdriver in slot of Quick-Loc mechanism and rotate ¼ turn anticlockwise.

2. Lift drive boss and drum from pedestal.

3. Remove needle roller bearing, two thrust washers, pawls and springs (4 sets), stainless steel bearing and on Ultra-light models — bearing race from bore of drum.

4. Thoroughly clean all parts with kerosene or paraffin. Take care to remove any salt build-up and rust from surfaces of bearing races and mating faces in drum and on pedestal.

5. (a) Spray pedestal and inside drum with CRC0465 or WD40 and replace bearing races, making sure they are properly seated.

6. (b) Lightly grease thrust washers, needle roller bearing, pawls and springs, ratchet teeth and drive boss bearing.

7. (c) Re-assemble with parts in stations marked "C" for clockwise rotation of drum. Unmarked stations for anti-clockwise rotation.

8. (d) Check action of pawls against springs. Refill main thrust washer, bearing and top thrust washer.

9. (e) Refit drum and drive boss checking engagement of pawls. Using screwdriver, turn Quick-Loc anti-clockwise until it snaps into lock position.

10. (f) Test action.
1. Remove retaining cap — tap undone in anti-clockwise direction.

2. Lift drum.

3. Undo cheese head screws — 3 off on models 20 through 27, 4 off on models 28 and 29.

4. Lift pedestal from base.

5. (a) Remove all parts by hand including drive shaft, bearings and stainless steel bearing races from inside top and bottom of pedestal (Models 22 through 28 only).

   (b) Also remove stainless steel bearing race on pedestal main bearing.

   (c) On Ultra-light models, also remove bearing race from bore on drum.

   (d) On models 26 through 28, idler gear needle roller bearing should also be removed.
To change rotation of Self-Tailing winches

All Maxwell self-tailers can be simply set for clockwise or anti-clockwise rotation. This allows for better deck layout by passing all lines to the outside of the winch port and starboard and can save turning blocks and lines cutting across combings. The direction of leading and rotation is clearly marked with arrows on top of the winch.

1. Assemble pawls or clutches as explained for standard winches to achieve desired rotation.
2. Arrows on self-tailing jaw show direction of rotation. If opposite rotation is required:
   (a) Remove stripper arm from jaws.
   (b) Remove 4 screws fastening jaws to drum.
   (c) Lift jaws from drum. Turn jaw over. Relocate pins andpivot ring and 4 dowel pins. Replace screws and tighten them firmly.
3. Replace stripper arm and retaining cap.
8 Grease and fit new drive shaft supplied with kit. Align splines on insertion. Test action.

9 Replace drum.

10 Locate spigot ring supplied in top of drum.

11 Locate jaw assembly, jaw with arrow showing correct rotation uppermost, on to spigot ring. Tap dowel pins into holes — tip home flush. IMPORTANT: Be sure to use dowel holes — not screw holes.

12 Using 4 screws supplied, screw jaw assembly down firmly.

13 Grease spline, raise drum and fit stripper arm, positioning so as to unload line into safe storage position.

14 Refit retaining cap and tighten firmly. Test action.

**Self-tailing Conversion Kits**

Self-tailing conversion kits are available for the following standard MAXWELL winches:

- 16 Bottom handle
- 18 Bottom handle
- 20, 21, 22, 23, 24, 25, 26
- 27, 28, 29

Cornering your standard Maxwell wind to self-tailing...
Using your Maxwell Self-Tailing Winches