



How to service your Lewmar winch 1982

 **LEWMAR**

Lewmar winches are known world wide for their quality, technical innovation and performance. They have been tested to their limits by our engineers in the laboratory and by racing crews in their search for victory. They have given years of outstanding service to many thousands of yachtsmen to whom the ultimate performance of a yacht or its equipment is perhaps not so important as the pure joy of sailing a fine craft equipped with the best yacht hardware.

This booklet tells you how to give your Lewmar winches the care and attention they need to ensure that whether you sail for results, records or just pleasure, your winches will contribute that extra level of performance that is designed into each Lewmar winch.

Frequency of Servicing

Lewmar winches, like any other precision engineered product, must be serviced regularly as follows: -

1. **MONTHLY:** All Lewmar sheet winches should be lightly oiled and greased as shown.

2. **TWO OR THREE TIMES DURING ACTIVE SAILING SEASON:** All Lewmar winches should be stripped, cleaned and re-lubricated.

Lewmar Guarantee

Lewmar winches have been developed over many years by extensive testing aboard the world's finest ocean racers, long distance cruising yachts and match racing yachts such as 12 metres. They are manufactured to quality standards in excess of those required by Lloyds and only the finest materials are used.

If installed, used and maintained as described in this leaflet, they will give outstanding performance.

Lewmar undertake that any winch which proves defective in materials or workmanship within 1 year of the date of supply will be repaired or replaced **FREE OF CHARGE** provided that the winch is returned by the registered owner to the nearest Lewmar office or distributor for examination. Lewmar reserve all rights on determining the nature of the alleged fault and their decision is final.

Lloyd's Certificate.
Lloyd's made a very careful examination of the material, design, construction, quality control and test procedures used by Lewmar and approved all the existing systems without alterations. Lewmar's existing standards proved to be higher than were required by Lloyd's.

3. **AT THE END OF EACH SAILING SEASON AND BEFORE STARTING THE NEW SAILING SEASON:** All Lewmar winches should be completely stripped, cleaned, thoroughly checked for damage and lubricated using the full maintenance manual.

General External Cleaning of Drum Chromed Winches — Wash drum regularly with fresh water and dry with chamois leather.

OCCASIONALLY use non abrasive liquid chrome cleaner to remove dirt deposits.

Anodised Aluminium Winches — Wash drum regularly with fresh water and dry with chamois leather. **DO NOT USE POLISHES OR ABRASIVES.**

Stainless Steel Winches — Wash drum regularly with fresh water and dry with chamois leather.

OCCASIONALLY use non abrasive liquid cleaner to remove dirt deposits.

This leaflet illustrates the service details of the current range of Lewmar winches.

The overall servicing principles may be used for earlier versions although the detailed construction of the winches may be different.



Service Manual

A full Service Manual is available from your nearest Lewmar Service point. (Price £3.00/\$6.00). Full servicing of any winch should not be undertaken without reference to this manual.

Recommended Lubricants

Grease: Lewmar grease 7010 (Lubriplate Marine Lube 'A', etc)

Oil: Light machine oil (3 in 1 or equivalent)

Tools Required

For routine servicing

Extra for full service (in conjunction with complete maintenance manual)

Models 6, 7, 8, 10, 16, 24, 30, 42, 55, 65, 1H

Small screwdriver or knife blade

Clean non-fluffy cloth

Cleaning fluid

Lubricants

Models 6, 7, 8, 10, 16, 24, 30, 1H, 40, 42, 44, 48

Nil

Models 55, 55ST

Screwdriver

Hammer

$\frac{5}{16}$ " A/F allen key

Models 16ST, 30ST, 34ST

plus soft mallet

Models 65, 65ST

Hammer

Models 40ST, 42ST, 44ST, 48ST, 55ST, 65ST

plus $\frac{1}{16}$ " A/F allen key

$\frac{5}{16}$ " A/F allen key

Medium screwdriver

Models 44, 48, 44ST, 48ST

plus $\frac{7}{32}$ " A/F allen key

$\frac{1}{2}$ " BSF spanner

Winch Spares Kit

Lewmar provide a maintenance kit for each winch in their range. These kits contain parts which owners may damage or mislay. Each kit is complete and parts are not sold separately.

Typical parts include

Pawls, springs, circlips, washers, locking caps, etc.

Spares Kits

Ref.

7001 **Single speed winches** except $\frac{5}{8}$ " socket No. 8's.

7002 **Two speed and small self tailing winches** up to and including 42ST except $\frac{5}{8}$ " socket No. 16.

7003 **Three speed push button winches.**

7004 **Self tailing winches** 44ST and above.

7005 **Halliard reel winches.**

7006 **Three speed Disc type winches.**

7007 **Sprung loaded 34ST plus $\frac{5}{8}$ " socket Nos. 8 and 16 winches.**

7008 **Various circlips** (Owners are strongly recommended to carry spare circlips for all winches).

7009 **Allen key set.**

7010 **Grease.**

Don't forget to get your spares kit from your local dealer.

Single Speed 6, 7, 8, 10 Servicing

1



Remove the circlip with a small screwdriver or knife blade.

2



Lift off the drum.

3

Nos. 6, 7



Wash centre stem and drum base with kerosene (paraffin). Dry with a non-fluffy cloth.

4

Nos. 8, 10



Wash centre stem, roller bearings and drum bore with kerosene (paraffin). Dry with a non-fluffy cloth.

5

Nos. 6, 7, 8, 10



Lightly oil the upper and lower pawls.

6

Nos. 6, 7, 8, 10



Remove centre spindle key, slide out spindle and grease lightly.

7
Nos. 6, 7



Lightly grease centre stem.

8
Nos. 8, 10



Lightly grease roller bearings.

Reassemble winch in reverse sequence to above. Check for correct operation.

Two Speed 16, 24, 30, 40, 42 Servicing

1



Remove the top circlip with a small screwdriver or knife blade.

2



Lift off the drum.

3



Wash centre stem, roller bearings and drum bore with kerosene (paraffin). Dry with a non-fluffy cloth.

4



Lightly oil top pawls.

5



Remove centre spindle key and slide out spindle.

6

No. 16



Clean spindle, grease lightly and oil pawls.

7

Nos. 24, 30,
40, 42

Clean and lightly grease spindle.

8

No. 16



Remove gear, clean and lightly grease.

9

Nos. 24, 30,
40, 42

Remove pawl gears and clean. Lightly oil pawls and grease gears.

10



Reassemble spindle and gears. Lightly grease bearings. Oil pawls in winch base (16 only).

Reassemble winch in reverse sequence to above. Check for correct operation.

Holdfast Self-Tailing 16ST, 30ST

Installation and Operation



1. The rope must be placed in the jaws correctly. The turn leading from the drum must be passed across the stripper mechanism as shown and placed into the jaws.

2. The winch must be mounted so that the loose sheet falls correctly into a secure stowage position.

3. There must be a minimum of 3 turns of rope on the barrel.



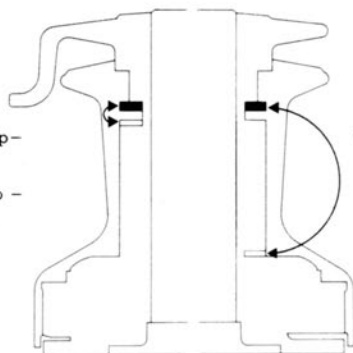
To position installation on boat remove drum as above and refit top cap. Place winch so that stripper arm is in correct position and mark off for drilling.

Holdfast Self-Tailing 16ST, 30ST Adjustment

No. 16ST

With white washer in drum top –
rope diameter 8–10 mm

With red washer in drum top –
rope diameter 12–14 mm.



No. 30ST

With white washer in drum top –
rope diameter 8–10 mm

With red washer in drum top –
rope diameter 12–14 mm

THE WINCH MUST BE ADJUSTED TO DEAL WITH DIFFERENT ROPE SIZES.

1

No. 16ST



Remove top cap

2

No. 16ST



Exchange washer in drum top with centre
stem washer **on top** of bearings.

3

Nos. 30ST,



Remove top cap

4

Nos. 30ST,



Exchange washer in drum top with centre
stem washer **below** bearings.

Holdfast Self-Tailing 16ST, 30ST Servicing

1



Using a soft faced mallet or wooden block and hammer, loosen the top with a firm tap.

2



Unscrew top cap.

3



Lift off the drum.

4



Wash centre stem, roller bearings and drum bore with kerosene (paraffin). Dry with a non-fluffy cloth.

5



Remove centre spindle key and slide out spindle.

6

No. 16ST



Clean spindle, grease lightly and oil pawls.

7
No. 30ST,



Clean and lightly grease spindle.

8
No. 16ST



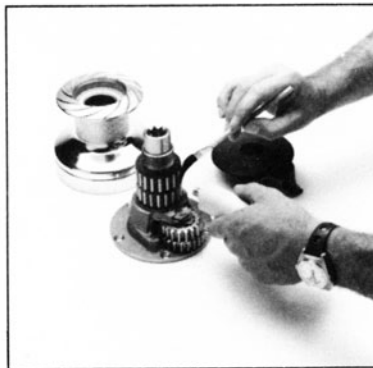
Remove gear, clean and lightly grease.

9
No. 30ST,



Remove pawl gears and clean. Lightly oil pawls and grease gears.

10



Reassemble spindle and gears. Lightly grease top cap thread, bearing and oil pawls in winch base.

Reassemble winch in reverse sequence to above. Check for correct operation.