

MODEL 27 2-SPEED SELF- TAILING WINCH

MANUFACTURED AFTER MAY 1, 1983

MAINTENANCE & SERVICE INFORMATION

Quality Winches and Fine Yacht Gear

BARIENT

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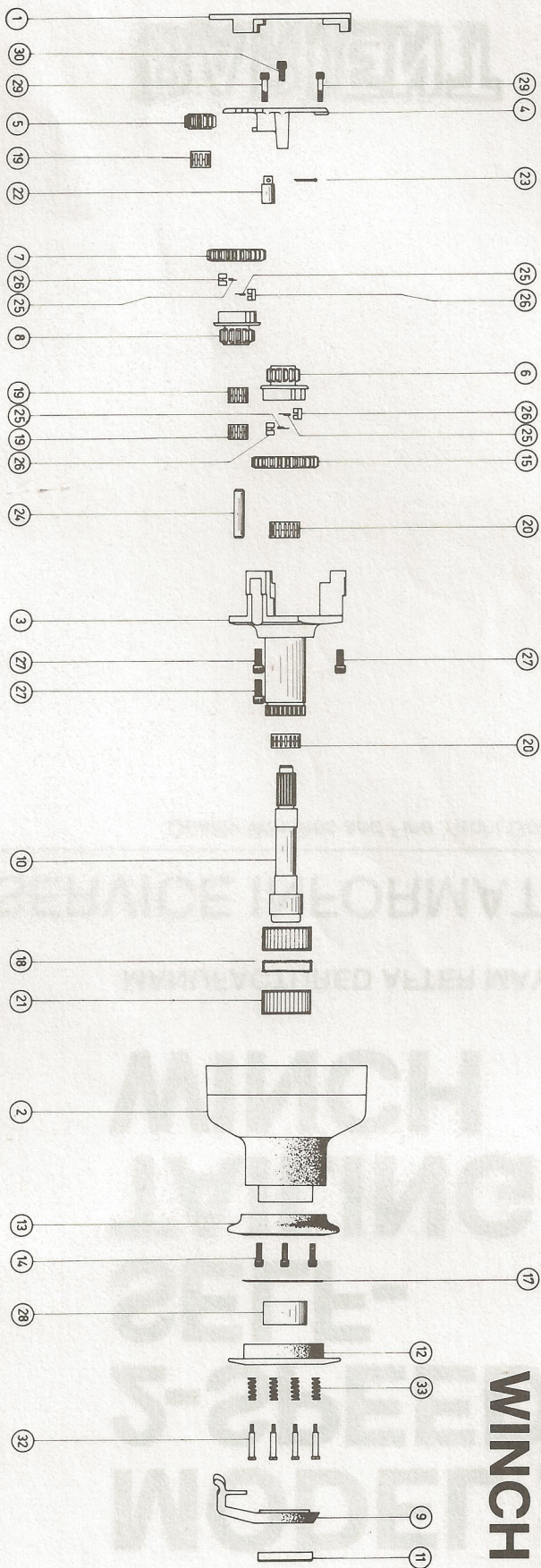
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Barient's patented spring loaded self tailing winches allow various size line to be used without adjustment to the self tailing device. We do, however, recommend using the following line sizes for best results:

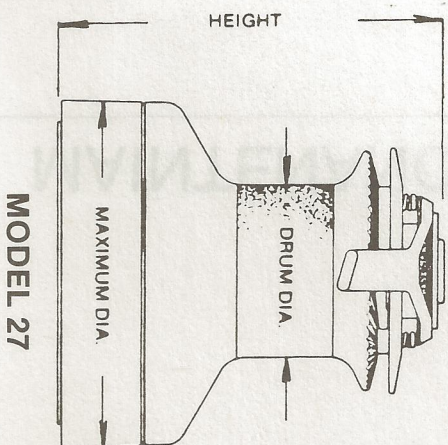
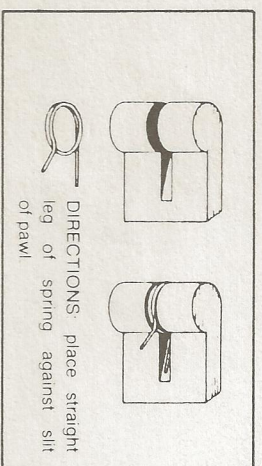
RECOMMENDED LINE SIZES

Minimum dia.: $\frac{3}{8}$ " 10mm
Maximum dia.: $\frac{9}{16}$ " 14mm.

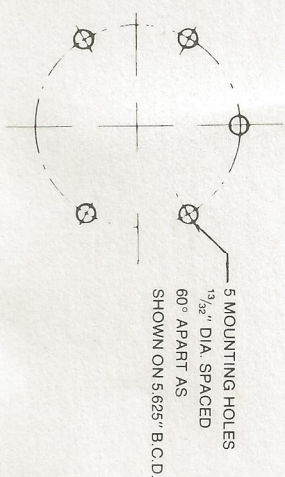
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PLACEMENT OF SPRING AGAINST PAWL



GEAR RATIO	1st	2nd
POWER RATIO	2:1	8.4:1
DRUM DIA.	10.8:1	45.3:1
MAXIMUM DIA.	94mm	3 $\frac{3}{4}$ "
HEIGHT	190mm	7 $\frac{1}{2}$ "
	207mm	8 $\frac{1}{16}$ "



MOUNTING INSTRUCTIONS

- Using a Barient drum nut tool remove the retaining nut (11) in the line lifter (9).
- Lift the drum assy. and the line lifter together from the gearbox assy. (3).
CAUTION: The drum bearings (18), (21) may come off with the drum — be careful not to let them fall out.
- Remove the three capscrows (27) holding the gearbox assy. to the base (1). Keeping the gearbox assy. complete, remove it from base.
- Bolt the base (1) to a flat and smooth surface drilled to take five hexagon head bolts or screws $\frac{3}{8}$ " (10mm) dia. on 5. $\frac{5}{8}$ " (143mm) bolt circle dia. Use the base (1) as a template. Apply only light coat of bedding (sealing) compound to seal the base to the deck.
- To assemble winch: reverse dismantling procedure. (See fig. 1).

TO LUBRICATE & DISASSEMBLE:

Note:

It is not necessary to remove the base (1) from the deck to lubricate this winch.

- Dismantle as step 1, 2 and 3 above.
- Remove the line lifter (9), the spacer (28) and drum bearings (18), (21).

Note:

If it is not necessary to disassemble the self-tailing mechanism — proceed to step 5.

- Remove the four shoulder screws (32) and clamping spring (33) from the clamp ring (12) using screwdriver.
- Remove the screw stop plate (17) and the clamp ring (12).
- Invert the gearbox assy. making sure the mainshaft (10) does not fall out.
- Remove the three capscrows (27) holding the gearbox plate assy. (4) to the gearbox housing (3) and carefully lift off the gearbox plate assy. (4).
- Remove the cotter pin (23) from idler gear shaft (22).
- Remove the idler gear shaft (22), idler gear (5) its bearing (19) from gearbox plate assy. (4).
- Remove the drum drive pinion (8), in assembly with its ratchet gear (7), pawls (26), springs (25) and separate them.
- Remove the drum drive pinion shaft (24) and its two bearings (19) from gearbox housing (3).
- Remove the center pinion (6) in assembly with its center ratchet gear (15), pawls (26), springs (25).
- Remove the main shaft (10) and its upper and lower bearings (20).
- Clean all parts in petroleum solvent. Replace any parts showing damage or excessive wear. During the assembly procedure all gears and bearings should be liberally greased with Barient — Barlube. The ratchet pawls should be lubricated with machine oil only — NEVER grease the pawls and springs.
- Assemble winch in reverse to that shown above.

TOOL REQUIRED:

$\frac{1}{8}$ " and $\frac{3}{16}$ " and $\frac{1}{4}$ " Allen key, Barient drum nut tool or deckplate key; screwdriver.

LUBRICANT: Non detergent Machine Oil (SAE 30); Barient — Barlube.

INSPECTION & LUBRICATION:

Quarterly lubrication is recommended. Inspect more frequently in a racing season. Monthly cleaning and lubrication of the aluminium drum winches is advisable.

Item	Part No.	Description	Qty
1	27-002	Base	1
2	27-604C	Drum — Chrome	1
Alt.	27-604A	Drum — Aluminium	1
Alt.	27-604B	Drum — Bronze	1
3	27-103	Gearbox	1
4	27-001	Gearbox Plate	1
5	27-008	Idle Gear	1
6	27-012	Center Pinion	1
7	27-015	Drum Drive Ratchet	1
8	27-011	Drum Drive Pinion	1
9	27-413	Line Lifter	1
10	27-106	Mainshaft	1
11	17-409	Retaining Nut	1
12	27014	Clamp Ring	1
13	27-434C	Drum Top — Chrome	1
Alt.	27-434A	Drum Top — Aluminium	1
Alt.	27-434B	Drum Top — Bronze	1
14	01-213	Capscrow 10-24 unc. x $\frac{1}{2}$ " lg	3
15	27-013	Center Ratchet Gear	1
17	27-431	Screw Stop Plate	1
18	27-134	Bearing Spacer	1
19	01-010	Bearing	3
20	01-012	Bearing	2
21	00414	Bearing	2
22	01-145	Idle Gear Shaft	1
23	01-232	Cotter Pin $\frac{3}{32}$ " dia. x $\frac{3}{4}$ " lg	1
24	01-144	Drum Drive Pinion Shaft	1
25	00209	Pawl Spring	4
26	00330	Ratchet Pawl	4
27	01-231	Capscrow $\frac{3}{4}$ " x $\frac{5}{16}$ " unc.	3
28	27-430	Tube Spacer	1
29	01-227	Special Capscrew	2
30	01-205	Capscrow $\frac{1}{4}$ " unc. x $\frac{5}{8}$ " lg	1
32	27016	Shoulder Screw	4
33	27017	Clamping Spring	4

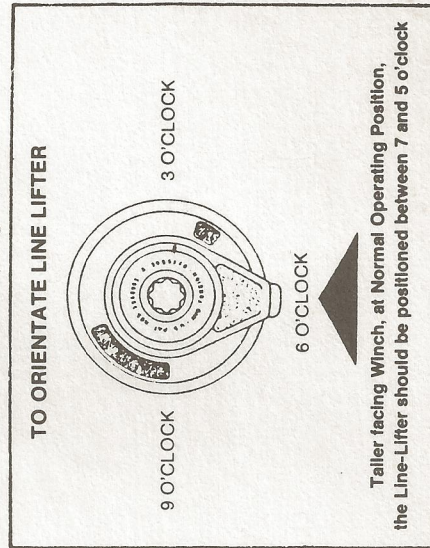


Fig. 1.