

MODEL 19 2-SPEED SELF TAILING WINCH

MANUFACTURED AFTER MAY 1, 1983

MAINTENANCE & SERVICE INFORMATION

Quality Winches and Fine Yacht Gear

BARIENT

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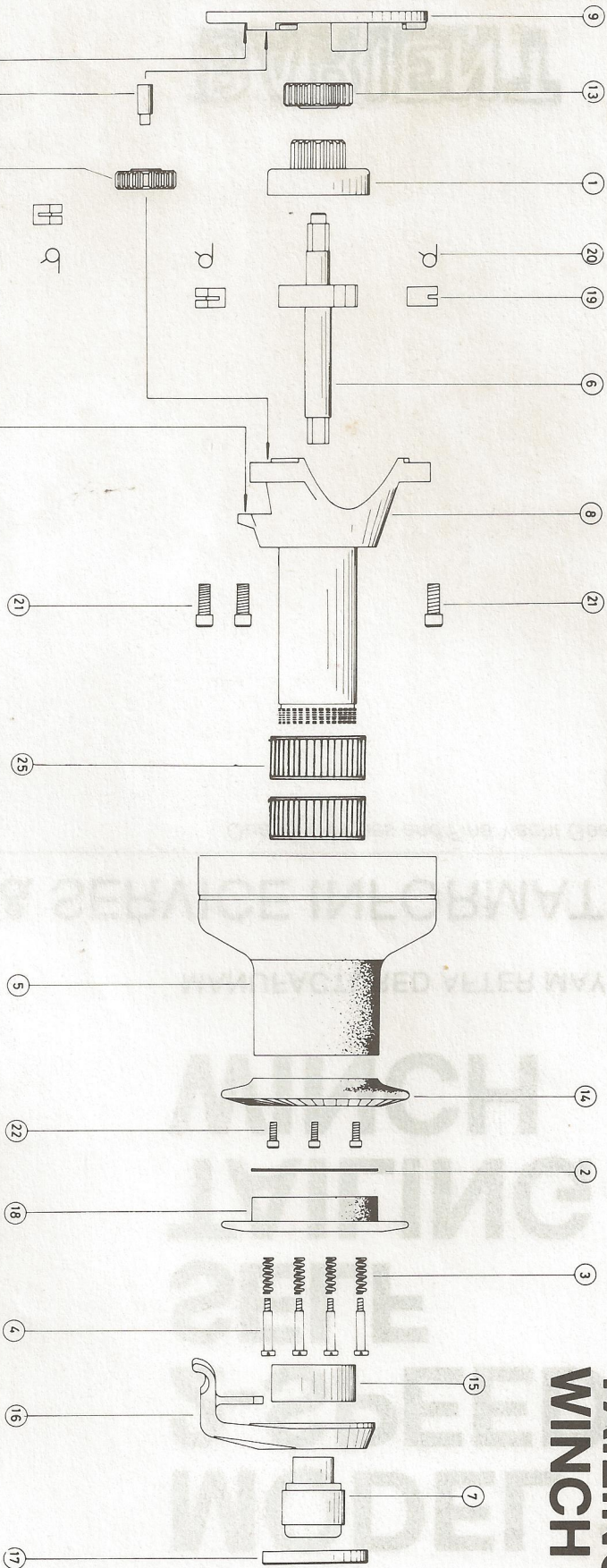
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Bartlett's patented spring loaded self tailing winches allow various size line to be used without adjustment to the self tailing device. We do, however, recommend using the following line sizes for best results:

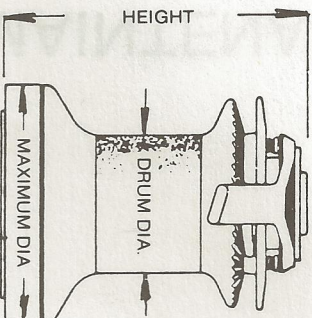
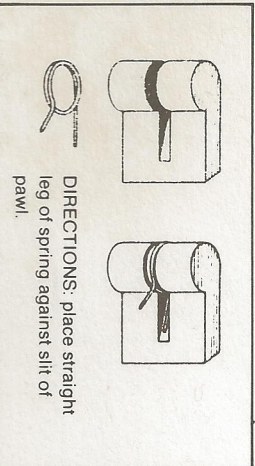
RECOMMENDED LINE SIZES

Minimum dia.: $\frac{5}{16}$ " 8mm
Maximum dia.: $\frac{1}{2}$ " 13mm.

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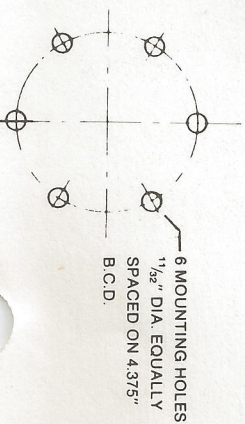


PLACEMENT OF SPRING AGAINST PAWL



MODEL 19

GEAR RATIO	1st	2nd
POWER RATIO	2.3:1	5.3:1
DRUM DIA.	15.3:1	35.3:1
MAXIMUM DIA.	76mm	3"
HEIGHT	146mm	5 3/4"
	178mm	7"



MOUNTING INSTRUCTIONS

- Using a Barient drum nut tool remove the retaining nut (17) in the line lifter (16).
- Lift the drum assy. and the line lifter together from the gear box assy. (8).
CAUTION: The drum bearings (25) may come off with the drum — be careful not to let them fall out.
- Bolt the base (9) to a flat and smooth surface drilled to take six flat head bolts or screws $\frac{5}{16}$ " (8mm) dia. on $4\frac{3}{8}$ " (111mm) bolt circle dia. **NOTE:** It is not necessary to remove the gearbox (8) from the base (9). Use the base (9) as a template. Apply only light coat of bedding (sealing) compound to seal the base to the deck.
- Install the drum assy. with the line lifter in suitable sheeting position over the gearbox assy. (8) (see fig. 1).
- Replace the retaining nut (17) and tighten firmly.

TO LUBRICATE & DISASSEMBLE:

NOTE:

It is not necessary to remove the base (9) from the deck to lubricate this winch.

- Dismantle as step 1 and 2 above.
- Remove the line lifter (16), the spacer (15) and bearings (25). Lift off the main shaft top (7) from top of the gearbox (8).

Note:

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

- Remove the four shoulder screws (4) and clamping springs (3) from the clamp ring (18) using screwdriver.
- Remove the screw stop plate (2) and the clamp ring (18).
- Remove the three capscrews (21) holding the gearbox housing (7) to the base and carefully lift off the gearbox housing (8).
- Lift out the main shaft (6) together with the center gear (1), high speed center gear (13) and separate them. Remove the pawls (19) and the springs (20) from main shaft.
- Remove the drum drive ratchet (12), driving pinion (10), driving pinion shaft (23), and separate them. Remove the pawls and springs (19) (20) from driving pinion (10).
- Remove the idler gear (11) and the idler shaft (24) from the base (9).
- 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.
- To assemble winch: reverse dismantling procedure and steps, 4;5 under "mounting instructions".

TOOL REQUIRED:

$\frac{1}{8}$ " and $\frac{1}{4}$ " Allen Key, Barient drum nut tool or deck plate 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	25-107	Center Gear	1
2	24024	Screw Stop Plate	1
3	24023	Clamping Spring	4
4	24022	Shoulder Screw	4
5	24-604C	Drum — Chrome	1
Alt.	24-604A	Drum — Aluminium	1
Alt.	24-604B	Drum — Bronze	1
6	24-211	Mainshaft Assy.	1
7	24-206	Mainshaft Top	1
8	24-203	Gearbox	1
9	24-202	Base	1
10	24-112	Drive Pinion	1
11	24-018	Idler Gear	1
12	24-015	Drive Ratchet	1
13	24-012	Center Gear	1
14	17-434C	Drum Top — Chrome	1
Alt.	17-434A	Drum Top — Aluminium	1
Alt.	17-434B	Drum Top — Bronze	1
15	17-430	Tube Spacer	1
16	17-413	Line Lifter	1
17	17-409	Retaining Nut	1
18	14675/19	Clamp Ring	1
19	00330	Ratchet Pawl	4
20	00209	Pawl Spring	4
21	01-215	Capscrew $\frac{5}{16}$ " x $\frac{5}{8}$ " lg	3
22	01-213	Capscrew $\frac{3}{16}$ " x $\frac{1}{2}$ " lg	3
23	01-158	Drive Pinion Shaft	1
24	01-156	Idler Gear Shaft	1
25	00 414	Bearing	2

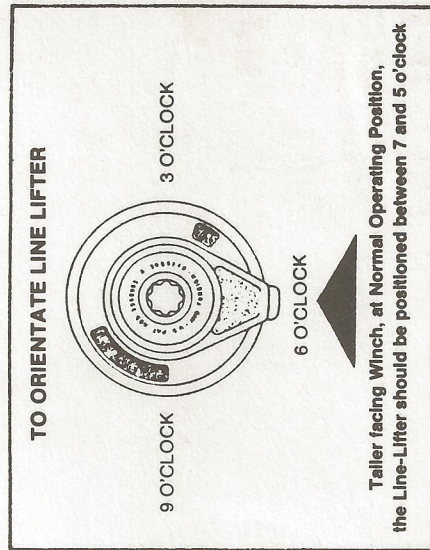


Fig. 1.