

# MODEL 21 2-SPEED WINCH

MANUFACTURED AFTER MARCH 1, 1983

## MAINTENANCE & SERVICE INFORMATION

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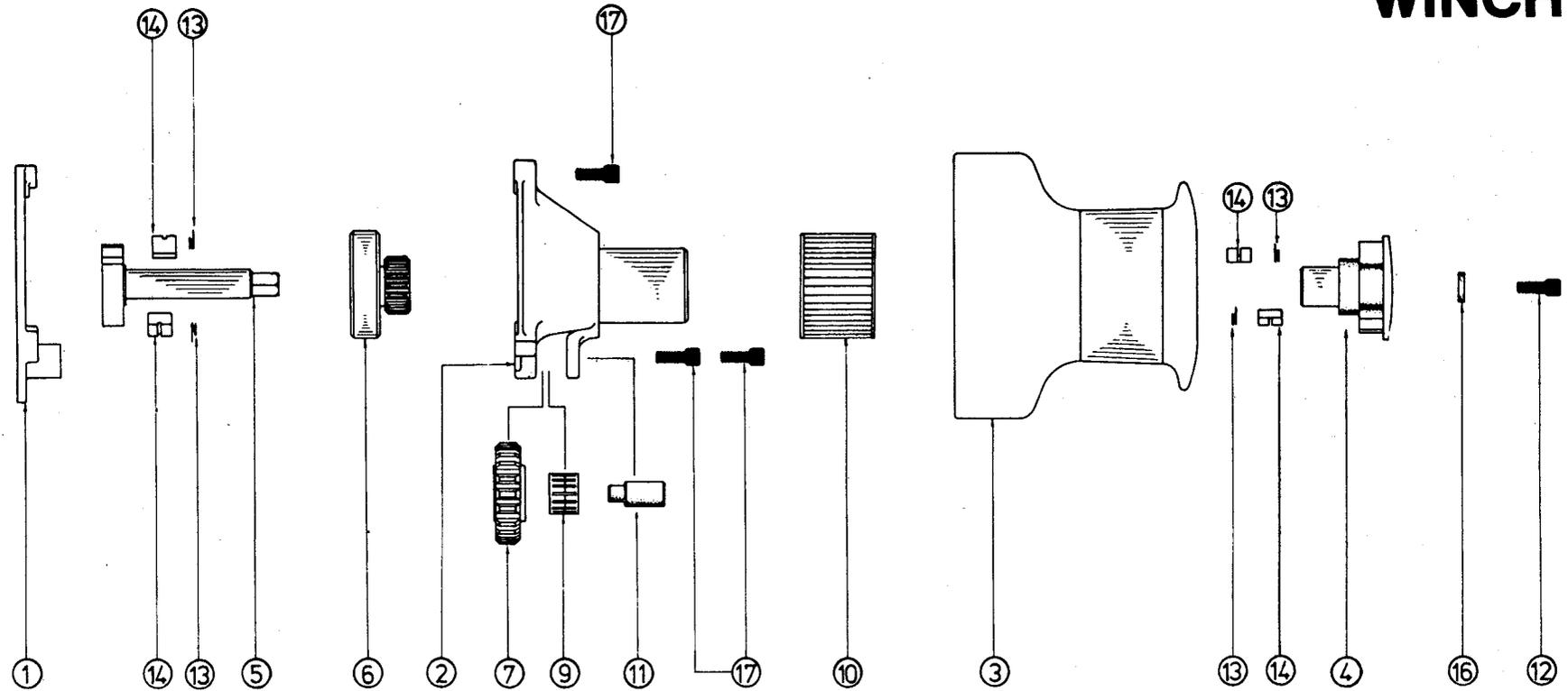
*Quality Winches and Fine Yacht Gear*

# **BARIENT**

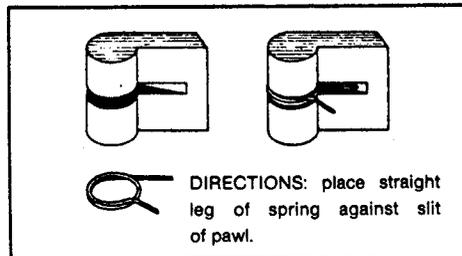
BARIENT INC., 3641 HAVEN AVENUE,  
MENLO PARK, C.A. 94025  
TELEX NO. 345559

# MAINTENANCE & SERVICE INFORMATION

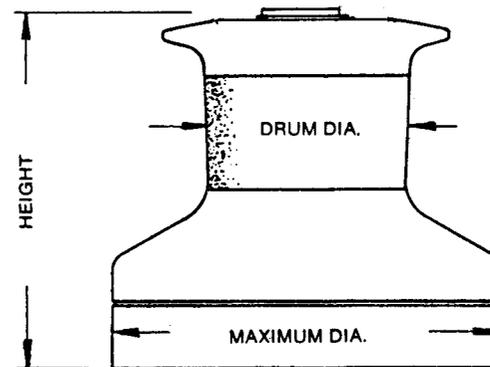
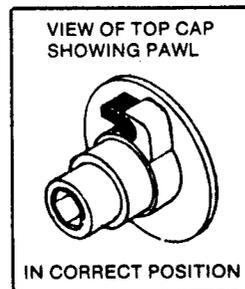
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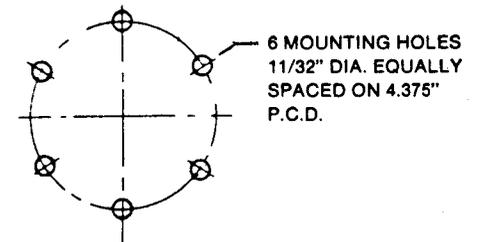
PLACEMENT OF SPRING AGAINST PAWL



VIEW OF TOP CAP SHOWING PAWL



	1st	2nd
<b>GEAR RATIO</b>	1:1	4.3:1
<b>POWER RATIO</b>	6.9:1	29.3:1
<b>DRUM DIA.</b>	73mm	2.9"
<b>MAXIMUM DIA.</b>	146mm	5 <sup>3</sup> / <sub>4</sub> "
<b>HEIGHT</b>	141mm	5 <sup>9</sup> / <sub>16</sub> "



## MOUNTING INSTRUCTIONS

- Using dismantling handle and  $\frac{3}{16}$ " Allen key remove the cap screw (12) in top cap (4).
- Lift drum (3) and top cap (4) together from the gearbox (3) and base (1)  
—CAUTION the drum bearing (10) sometimes sticks to the drum and may be dropped.
- Bolt the base (1) to a flat and smooth surface drilled to take six flat head bolts  $\frac{5}{16}$ " (8 mm) dia. on 4  $\frac{3}{8}$ " (111 mm) bolt circle dia. It is not necessary to remove the gearbox (2) from the base (1). Use base (1) as a template.  
Apply only light coat of bedding (sealing) compound to seal the base to the deck.
- Slide the drum — top cap assy. together over the bearing (10) and gearbox (3).
- Firmly tighten the capscrew (12) in the top cap (4).

## TO LUBRICATE & DISASSEMBLE:

### Note:

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

- Dismantle as step 1 and 2 above.
- Remove bearing (10) from gearbox (2) and top cap (4) from drum (3).
- Remove three capscrews (17) and lift gearbox (2) from base (1).
- Remove main shaft assy. (5) with ratchet center gear (6); idler gear (7); bearing (9) and shaft (11).
- Remove springs and ratchet pawls from main shaft (5) and top cap (4).
- 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 and 5 under "mounting instructions".

## TOOL REQUIRED:

$\frac{3}{16}$ " and  $\frac{1}{4}$ " Allen key, dismantling handle (01-821).

**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	24-002	Base	1
2	24-003	Gear Box	1
3	21-404A	Drum — Aluminium	1
Alt.	21-404C	Drum — Chrome	1
Alt.	21-404B	Drum — Bronze	1
4	18-405C	Top Cap — Chrome	1
Alt.	18-405B	Top Cap — Bronze	1
5	24-306	Main Shaft Assy.	1
6	21-407	Center Pinion 12T	1
7	21-408	Idler Gear 19T	1
9	01-010	Bearing (Bronze)	1
10	00422	Bearing	1
11	01-155	Idler Shaft	1
12	01-205	Cap Screw $\frac{1}{4}$ " unc x $\frac{5}{8}$ "	1
13	01-300	Spring	4
14	01-400	Ratchet Pawl	4
16	01-502	Retaining Washer	1
17	01-215	Cap Screw $\frac{5}{16}$ " unc x $\frac{5}{8}$ "	3