



## Service winch before the sailing season begins and once during.

### Required Tools

Screwdriver
Allen Wrench (6 mm)
Allen Wrench (5 mm)
Plastic Head Hammer or Mallet
Small Knife
Brush

Rags
Solvent
Oil
Grease
<b>Suggested Service Kits</b>
BK4512 10 008 Pawls
10 038 Springs
BK4513 100 ml Grease

### Installing Winch

Make sure mounting surface is flat.
Check sheet entry angle. Should be at least 8° (see drawing).
Open winch.
Position winch on deck with drive gear where sheet enters winch drum. Mark holes.
Remove winch and drill holes.
Mount using six (6) 3/8" (10 mm) flathead machine screws.
Apply bedding compound. Bolt winch to boat.
Clean excess bedding compound from base drain holes.
Lubricate and close winch.

### Minimum/Maximum Line Diameter

Harken winches feature spring-loaded self-tailing jaws which adjust automatically to the following line sizes:
Minimum 3/8" (10 mm)
Maximum 13/16" (21 mm)

### Positioning Stripper Arm

Loosen top screw (6143).
Remove handle socket (26649).
Lift stripper arm (37858) and position as desired.

### Opening Winch

Remove top screw (6143).
Remove handle socket (26649).
Remove 3 screws (6391) in stripper arm (37858).
Remove stripper arm (37858).
Remove 4 screws (6009) in stripper arm base (27668).
Lift support base.
Lift off drum.

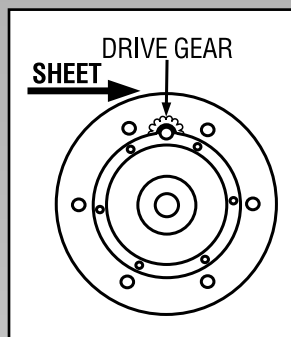
### Servicing Winch

Remove bearings from center stem.
Drum support bearing 27588/6337/27879 cannot be removed; clean with solvent and lubricate lightly with grease.
Remove allen screws (6432) holding center stem to base.
Remove center stem (38628) carefully.
Remove pawls and springs - service as below.
Remove all bearings, gear shafts and gears.
<b>Service one gear shaft assembly at a time to avoid confusion.</b>
Inspect plastic bushings for wear.
Remove all pawls and springs and service (see below).
Use brush to lubricate all gears, gear shafts, bearings, teeth and all moving parts lightly with grease.
Replace pawls and springs and lubricate lightly with oil.
Assemble and close winch.

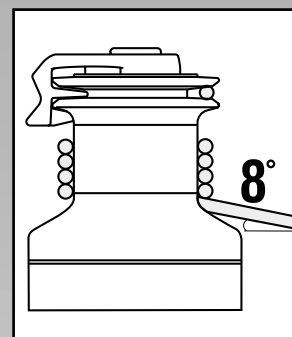
### Servicing Pawls

Catch spring with knife and hold against pawl.
Lift out pawl.
Clean and check for wear.
Place spring against pawl with straight leg against pawl.
Hold spring closed and slip pawl into pawl socket.
Lubricate pawls using oil.

### Mounting

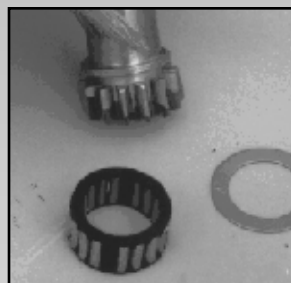


Position drive gear where sheet enters winch drum.

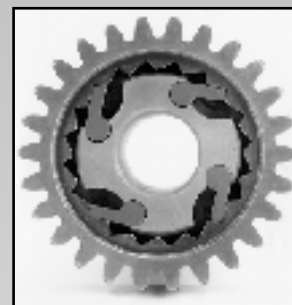


Sheet entry angle must be at least 8°.

### Servicing Winch



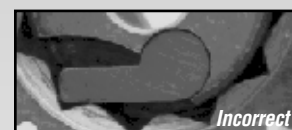
Clean all parts with solvent except 37857/37859.



Use a brush to spread a light, even coat of grease.



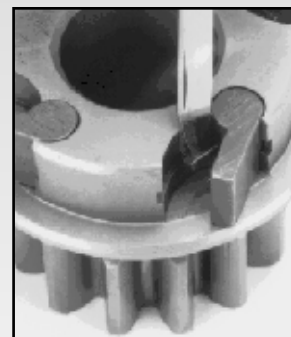
Correct



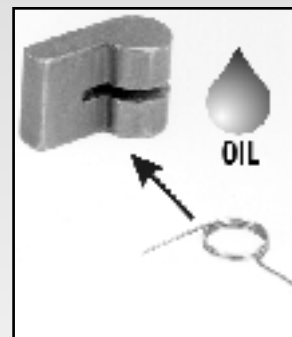
Incorrect

If ratchet gear is mounted backwards, winch will slip.

### Servicing Pawls



Use knife to free captive spring.



Insert spring with straight leg against pawl. Use oil for lubrication.

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