

Service winch before the sailing season begins and once during.

Required Tools

Screwdriver	Rags
Allen Wrench (6 mm)	Solvent
Allen Wrench (5 mm)	Oil
Plastic Head Hammer or Mallet	Grease
Small Knife	Suggested Service Kits
Brush	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) 5/16" (8 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	5/16" (8 mm)
Maximum	5/8" (16 mm)

Positioning Stripper Arm

- Loosen top screw (6143).
- Remove handle socket (26648).
- Lift stripper arm (37850) and position as desired.

Opening Winch

- Remove top screw (6143).
- Remove handle socket (26648).
- Remove 3 screws (6391) in stripper arm (37850).
- Remove stripper arm.
- Remove 4 screws (6009) in stripper arm base (27668).
- Lift support base.
- Lift off drum.

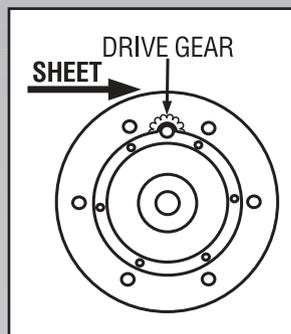
Servicing Winch

- 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 (38688) carefully.
- Remove pawls and springs - service as below.
- Remove all bearings, gear shafts and gears.
- Service one gear shaft assembly at a time to avoid confusion.**
- 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.

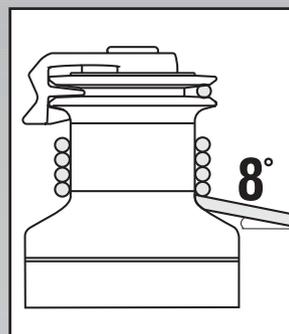
Servicing Pawls

- 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

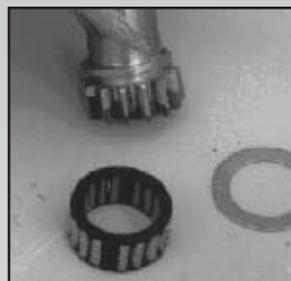


Position drive gear where sheet enters winch drum.

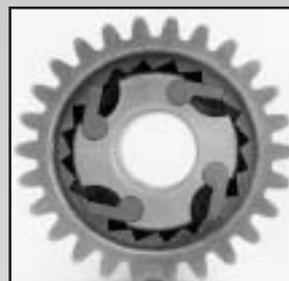


Sheet entry angle must be at least 8°.

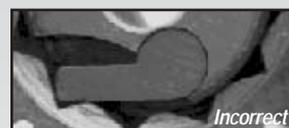
Servicing Winch



Clean all parts with solvent except 37848/37849.



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

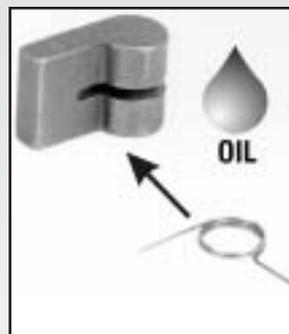


If ratchet gear is mounted backwards, winch will slip.

Servicing Pawls



Use knife to free captive spring.



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

4567/5-99



HARKEN