980.3st
Two Speed Self-Tailing Winch
Winch Parts
Installation
Service

■ Parts List

008  Pawl
038  Pawl Spring
1709 Plastic Washer
1738 Spring
5530  Pawl Gear
5533  Pawl Gear
5538  Gear
5544 Bearing Spacer
5547 Gear Shaft
5548 Gear Shaft
5871 Spring
6009 Screw
6052 Cover Plate Screw
6141 Ball
6143 Top Screw
6313 Washer
6339 Balls
6391 Screw
6432 Screw
26029 Plastic Washer
26039 Upper Drive Ring
26044 Bushing
26049 Handle Socket
26048 Gear
27451 Double Gear
27454 Washer
27588 Thrust Bearing
27688 Stripper Arm Support
27879 Thrust Washer
28053 Plastic Washer
28060 Ratchet Gear
28064 Gear Cover Plate
28066 Ratchet Gear
28065 Gear Base
28067 Ratchet Gear
30127 Bushing
30128 Plastic Bushing
30129 Bearing Spacer
32551 Top Cap
32713 First Speed Drive Shaft
32716 Center Spindle
35422 Ring
37751 Spring
37764 Lower Drive Ring
37781 Guide Bushing
37857 Spring Support
37860 Upper Jaw
37861 Lower Jaw
37862 Stripper Arm
38628 Center Stem
38639 Gear Shaft
38640 Stop Plate
38655 Red Line Ring
701888 Bearing
703192 Bearing
720600 Bearing
720605 Bearing
720664 Bearing
538632 Aluminum Drum
538637 Chrome Drum
538684 Base

When ordering parts, please include a “B” before each number (i.e. B008)
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

**Suggested Service Kits**
- BK4512 10 008 Pawls
- BK4513 10 038 Springs
- BK4514 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) ½" (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 (37862).
- Remove stripper arm (37862).
- 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 center stem (38628) carefully.
- 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 all 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.

**Servicing Striper Arm**
- 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.

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

**Incorrect**
- If ratchet gear is mounted backwards, winch will slip.

**Cleaning Winch**
- Position drive gear where sheet enters winch drum.

**Servicing Striper Arm**
- 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.

**Clean all parts with solvent except 37857/37863.**

**Suggested Service Kits**
- BK4512 10 008 Pawls
- BK4513 10 038 Springs
- BK4514 100 ml Grease

**Recommended Tools**
- Screwdriver
- Allen Wrench (6 mm)
- Allen Wrench (5 mm)
- Plastic Head Hammer or Mallet
- Small Knife
- Brush
- Rags
- Solvent
- Oil
- Grease

**Suggested Service Kits**
- BK4512 10 008 Pawls
- BK4513 10 038 Springs
- BK4514 100 ml Grease