Electric/Hydraulic Two-Speed Self-Tailing Winch

**Required Tools**
- Screwdriver
- Plastic Head Hammer or Mallet
- Small Knife
- Brush
- Rags
- Solvent
- Oil
- Grease

**Parts List**
- 008  Pawl
- 038  Pawl spring
- 1738  Spring
- 3541  Spacer
- 6009  Screw
- 6310  Screw
- 6337  Stainless Steel Ball
- 6385  Screw
- 6480  Washer
- 6481  Washer
- 6583  Gear
- 6684  Screw
- 6686  Screw
- 6829  Plastic Washer
- 6834  Bushing
- 6835  Spacer
- 6836  Split Washer
- 72588  Thrust Bearing
- 72596  Stripper Arm Support
- 28089  Ratchet gear
- 28505  Washer
- 28506  Bushing
- 28517  Washer
- 29236  Plastic Bushing
- 30128  Bushing
- 31182  Ratchet gear
- 31183  Pawl Gear
- 31246  Bushing
- 31767  Spindle
- 32284  Bushing
- 32545  Top Cap
- 37848  Spring Support
- 37849  Cover
- 37851  Upper Jaw S1
- 37863  Stripper Arm
- 38500  Center Stem
- 39505  Rod Link Ring
- 44726  Logo Support
- 726073  Bearing
- 731769  Bearing
- 737111  Center Hub
- 738468  Discontinuance Rod Assy
- 742345  Bearing
- 937851  Chrome Drum
- 938160  Mounting Plate
- 938642  Base
- 938644  Aluminum Drum

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

When ordering parts, please include a “B” before each number (i.e. 008B).
**1 Remove Disconnect Rot and Handle Socket**
Loosen disconnect rod using flathead screw driver as shown below.
Remove Disconnect Rot and handle socket.

**2 Remove Stripper Arm and name Ring**
Loosen the three (3) allen screws.
Remove Stripper arm.
Remove Name Ring and black cover ring.

**3 Remove Drum Assembly**
Loosen the four (4) allen screws inside the stripper arm support.
Remove stripper arm support.
Carefully lift off drum assembly, main bearings may remain inside drum due to oil and grease.

**4 Remove Housing**
Loosen the six (6) allen screws holding the housing to the aluminium base.
Lift off housing.

**5 Remove Mounting Plate from Motor/Gearbox Ass’y**
Loosen the four (4) allen screws.
Lift off mounting plate.

**6 Drive Position**
Place winch base on mounting plate, making sure fastener holes re corresponding.
Mark drive position.
Mount the Winch

7 Determine Winch Location
Make sure there is clearance for Motor and Reduction Gearbox.
Drill an 127 mm hole through the deck.

8 Position Drive Gear/Secure Mounting Base
Make sure Mounting Base sits flat on deck.
Position so Drive Gear aligns to sheet load (see Step 13).
Mark the six (6) mounting holes, drill deck.
Use bedding compound/sealant to prevent leakage.
Secure Mounting Base using five (5) 8 mm (B56) or 10 mm (B64 and up) countersunk screws.

9 Attach Motor/Gearbox Assembly to Mounting Base
Have another person below deck to position gearbox underneath winch.

10 Attach Winch
Tighten the six (6) bolts securing Winch to Mounting Base.
Use blue Loctite® on threads.
Use brush to lightly lubricate gear with grease.

11 Assemble Winch
Use steps 1 - 9 in reverse order to assemble winch.

12 IMPORTANT - Test Winch Operation
After winch is assembled, test operation in manual mode only, before sailing. Important - use a lock-in winch handle.
Using a locking winch handle, check winch operation.
Disconnect rod must disconnect gearbox when lock-in winch handle is inserted in Handle Socket.

Service winch before the sailing season begins and once during

- **Minimum/Maximum Line Diameter**
  Harken winches feature spring-loaded self-tailing jaws which adjust automatically to the following line sizes:
  - Minimum: 5/32" (8 mm)
  - Maximum: 1/2" (12 mm)

- **Positioning Stripper Arm**
  - Loosen top Screw.
  - Remove Handle Socket.
  - Lift Stripper Arm and position as desired.

- **Opening Winch**
  - Remove top Screw.
  - Lift off Drum and Stripper Arm.

- **Servicing Winch**
  - Remove Pawls and Springs - service as below.
  - Remove Bearings, Gear Shaft and Gears.
  - Clean all parts except 37383 and 38598 with solvent.
  - Important: Use freshwater only on parts 37383 and 38598.
  - Use brush to lubricate 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 "straight leg" of Pawl Spring against Pawl.
  - Hold Spring closed and slip Pawl into Pawl Socket.
  - Lubricate Pawls using oil.

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

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

- **Use a brush to lubricate all moving parts lightly with grease.**

- **Use knife to free captive Pawl Spring.**

- **Insert Pawl Spring with straight leg against Pawl. Use oil for lubrication.**
Fasten electric control box containing solenoids to bulkhead or wall.
Install remote circuit breaker between power supply and electric control box.
Locate pushbuttons in a convenient spot for easy winch operation.
Pushbutton wire size is #14.
Refer to wiring diagram for wire size and connection information.