56.2ST E/HY
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
- 6009 Screw
- 6130 Base Ring
- 6310 Screw
- 6337 Stainless Steel Ball
- 6391 Screw
- 6432 Screw
- 6481 Washer
- 6682 Screw
- 6686 Screw
- 26029 Plastic Washer
- 26044 Bushing
- 26046 Split Washer
- 26648 Handle Socket
- 27396 Thrust bearing
- 27688 Stripper Arm Base
- 27979 Thrust Washer
- 28095 Ratchet gear
- 28096 Ratchet gear
- 28097 Ratchet gear
- 28098 Ratchet gear
- 28099 Washer
- 28100 Gear Shaft
- 28101 Gear Shaft
- 28102 Washer
- 28103 Spacer
- 28136 Spindle guide
- 28165 Plastic bushing
- 30126 Bushing
- 30132 Bushing
- 32254 Bushing
- 32255 Gear
- 32590 Top cap
- 32633 Plastic Washer
- 3746 Upper Jaw ST
- 37488 Spring Support
- 37910 Upper
- 37950 Stripper Arm
- 38895 Nick Pin Ring
- 38930 Center Pin
- 44725 Logo Support
- 72607/3 Bearing
- 729218 Bearing
- 729298 Bearing
- 742345 Bearing
- 936855 Disconnect Rod Assy
- 937647 Lower Jaw ST
- 938162 Mounting Plate
- 938856 Aluminum Drum
- 938905 Chrome Drum
- 938980 Base

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

When ordering parts, please include a “B” before each number (i.e. B008).
1 Remove Disconnect Rot and Handle Socket
Loosen disconnect rod using flethead screw driver as shown below.
Remove Disconnect Rod 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.
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 five (5) 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: 1/4" (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 rag and solvent.
  Important: Use freshwater only on parts 37383 and 38598.
  Use brush to lubricate all moving parts lightly with grease.
  Remove Pawls and Springs and lubricate lightly with oil.
  Assemble and close winch.
- **Servicing Pawls**
  Catch Spring with knife and hold against Pawl.
  Insert Pawl Spring with straight leg against Pawl. Use oil for lubrication.

Correct Incorrect

- **If ratchet gear is mounted backwards, winch will slip.**
- **Use a brush to spread a light, even coat of grease.**
- **Clean all parts, except 37383 and 38598, with solvent.**
- **Use a knife to free captive Pawl Spring.**
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.

**WIRE SIZE CHART**

(distance in meters from battery to winch and back battery)

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*Push buttons require 2 mm² cable.*