59.2ST E/HY
Electric/Hydraulic Self-Tailing Winch

Winch Parts
Installation
Service

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

■ Parts List
- 008 Pawl
- 038 Pawl Spring
- 1738 Spring
- 26029 Plastic Washer
- 26044 Bushing
- 26048 Split Washer
- 26048 Handle Socket
- 27639 Thrust Bearing
- 27688 Stripper Arm Base
- 27679 Thrust Washer
- 28099 Ratchet Gear
- 28090 Ratchet Gear
- 28092 Ratchet Gear
- 28093 Pawl Gear
- 28094 Pawl Gear
- 28095 Pawl Gear
- 28097 Washer
- 28098 Washer
- 28099 Washer
- 28100 Gear Shaft
- 28101 Gear Shaft
- 28103 Washer
- 28134 Spacer
- 28136 Spring Guide
- 29926 Plastic Bushing
- 30128 Bushing
- 30129 Bushing
- 30133 Bushing
- 30136 Spindle Guide
- 32254 Bushing
- 32258 Gear
- 32263 Plastic Washer
- 37466 Upper Jaw ST
- 37484 Spring Support
- 37849 Cover
- 37850 Strpier Arm
- 38605 Red Line Ring
- 46010 Center Stem
- 4725 Logo Support
- 47847 Lower Jaw ST
- 4777 Top Cap
- 72013 Bearing
- 72618 Bearing
- 73692 Bearing
- 736245 Bearing
- 93888 Disconnect Rod Assy
- 938162 Mounting Plate
- 938880 Base
- 945459 Chrome Drum

■ Suggested Service Kits
- BK4512 10 008 Pawls
- BK4513 10 038 Springs
- 938162 Mounting Plate

When ordering parts, please include a "B" before each number (i.e. 008B).
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 Assy
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 a 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.

13 Service Winch before the sailing season begins and once during

- 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 Bearing, 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.
Replace Pawls and Springs and lubricate lightly with oil.
Assemble and close winch.

- Servicing Pawls
Catch Spring with knife and hold against Pawl.
Use knife to free captive Pawl Spring.
Insert Pawl Spring with straight leg against Pawl. Use oil for lubrication.
Clean all parts, except 37383 and 38598, with solvent.
Use a brush to spread a light, even coat of grease.
Clean all parts except 37383 and 38598 with rag and solvent. 
Place "straight leg" of Pawl Spring against Pawl.
Lubricate Pawls using oil.

Position drive gear where sheet enters winch drum.
Wiring

- 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*

Schematics Piping

- Parts List
  - Pos. Q.ty Code Description
  - 1 1 29505 Spacer
  - 2 1 38149 Hydraulic motor support
  - 3 1 30848 Hydraulic motor "OMR80 151-0721 alb.scan. 1"
  - 4 1 6519 Ring
  - 5 1 33045 Ring carrier
  - 6 1 36475 Toothed coupling
  - 7 1 32649 Spring
  - 8 1 32936 Washer
  - 9 2 6215 Washer D.13 UNI1751
  - 10 2 6671 Screw M12x35 UNI5931
  - 11 1 6353 Screw M8x16 UNI6109
  - 12 1 36476 Hydro motor coupler
  - 13 1 6660 Spring pin 6x36 DIN 1481
  - 14 4 6277 Heli-coil M10x10

- Parts List (continued)
  - Pos. Q.ty Code Description
  - 1 1 738156 Assy painted worm reduction
  - 4 6208 Nut M6 UNI5588
  - 4 6213 Washer D.6 ISO 7089
  - 1 36461 Lower cover
  - 4 36460 Screw stud M6 x 20
  - 1 31279 Worm reduction unit VF49
  - 1 38156 Support
  - 4 6213 Washer D.6 ISO 7089
  - 4 6277 Heli-coil M10x10
  - 2 1 36478 Shaft
  - 3 1 6519 Ring
  - 4 1 36475 Ring
  - 5 1 33056 Spring
  - 6 1 31074 Connecting coupling
  - 7 1 6553 Screw M6x16 UNI6519
  - 8 1 31043 Washer
  - 9 1 6179 Spring pin 6x36 DIN 1481
  - 10 1 6281 Key 8x78
  - 11 1 33149 Electric motor 12V 600W Assy painted
  - 1 31249 Electric motor 12V 600W 2800rpm
  - 4 31281 Screw M6
  - 4 6208 Nut M6 UNI5588
  - 4 6178 Spring pin 6x36 DIN 1481
  - 11 1 31281 Electric motor 24V 600W Assy painted
  - 1 31250 Electric motor 24V 600W 2800rpm
  - 4 31281 Screw M6
  - 4 6208 Nut M6 UNI5588
  - 4 6178 Spring pin 6x36 DIN 1481