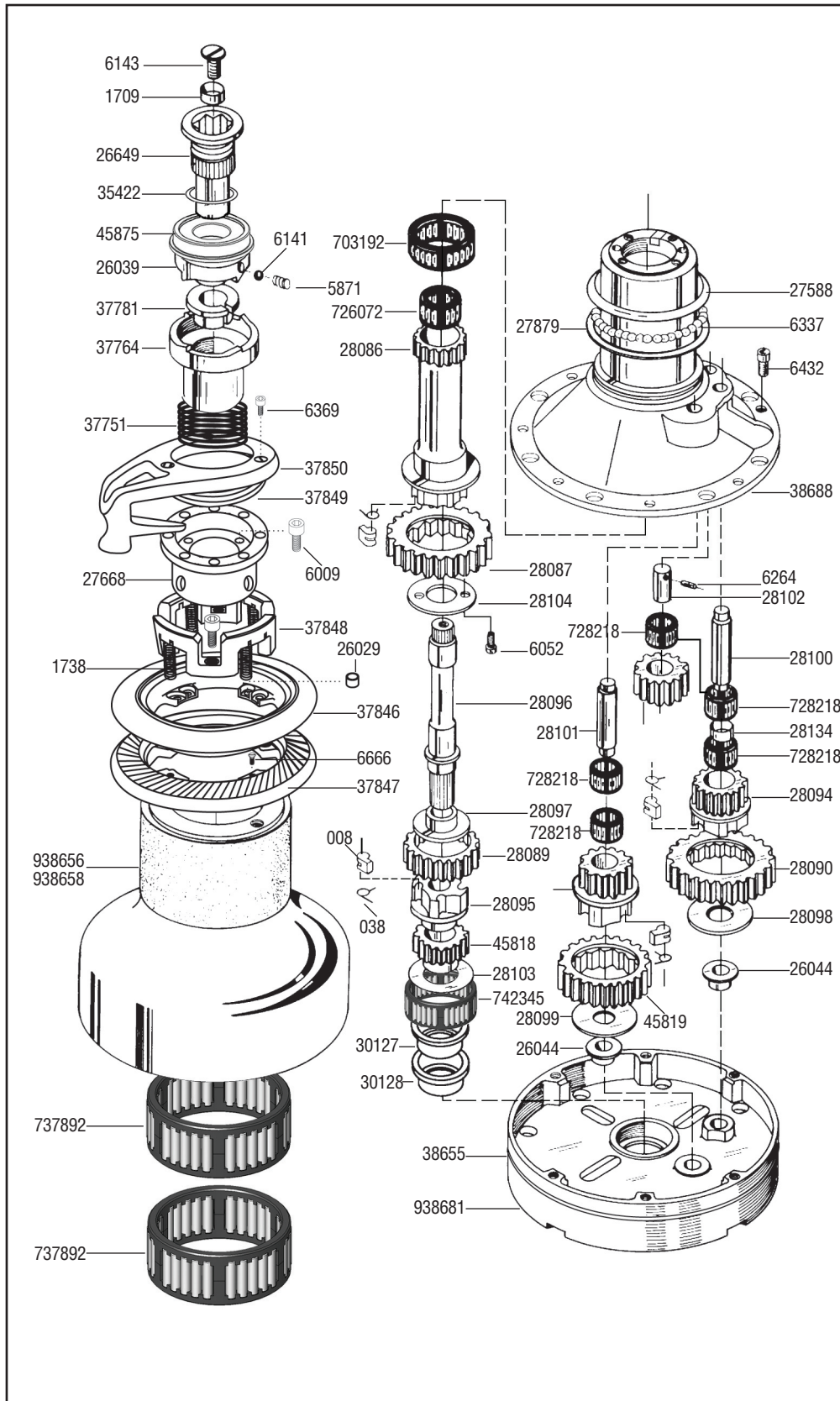


HARKEN®

60.3st

Three Speed Self-Tailing Winch

Winch Parts Installation Service



■ Parts List

008	Pawl
038	Pawl Spring
1709	Plastic Washer
1738	Spring
5871	Spring
6009	Screw
6052	Screw
6141	Ball
6143	Top Screw
6264	Pin
6337	Stainless Steel Ball
6391	Screw
6432	Screw
6666	Screw
26029	Plastic Washer
26039	Upper Drive Ring
26044	Bushing
26649	Handle Socket
27588	Thrust Bearing
27668	Stripper Arm Support
27879	Thrust Washer
28086	First Speed Drive Shaft
28087	Ratchet Gear
28088	Gear
28089	Ratchet Gear
28090	Ratchet Gear
28093	Pawl Gear
28094	Pawl Gear
28095	Pawl Gear
28096	Spindle
28097	Washer
28098	Washer
28099	Cover Plate
28100	Gear Shaft
28101	Gear Shaft
28102	Gear Shaft
28103	Washer
28104	Cover Plate
28134	Spacer
30127	Bushing
30128	Bushing
35422	Ring
37751	Spring
37764	Lower Gear Ring
37781	Guide Bushing
37846	Upper Jaw
37847	Lower Jaw
37848	Springs Support
37849	Cover
37850	Stripper Arm
38655	Red Ring
38688	Center Stem
45818	Gear
45819	Ratchet Gear
45875	Logo Plate
703192	Bearing
726072	Bearing
737892	Bearing
742345	Bearing
728218	Bearing
938656	Aluminum Drum
938658	Chrome Drum
938681	Base

When ordering parts for service, 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

Rags
Solvent
Oil
Grease
■ Suggested Service Kits
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 (26649).
Lift stripper arm (37850) and position as desired.

■ Opening Winch

Remove top screw (6143).
Remove handle socket (26649).
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.

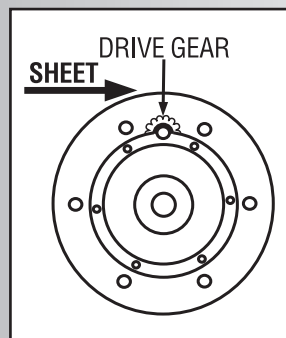
■ Servicing Winch

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.

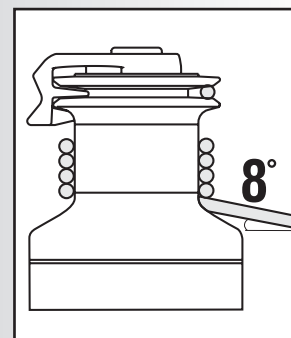
■ Servicing Pawls

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

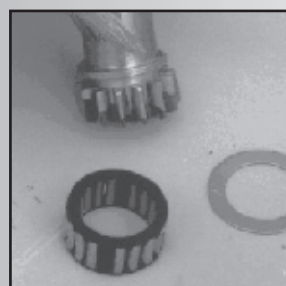


Position drive gear where sheet enters winch drum.

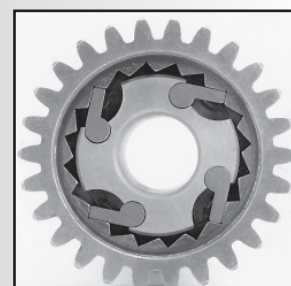


Sheet entry angle must be at least 8°.

Servicing Winch



Clean all metal parts with solvent.

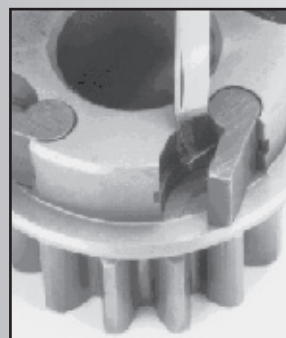


Use a brush to spread a light, even coat of grease.

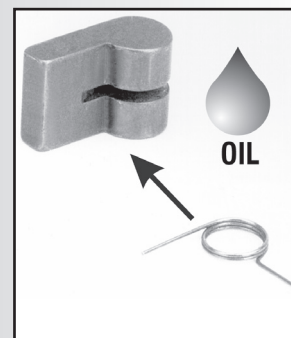


If ratchet gear is mounted backwards, winch will slip.

Servicing Pawls



Use knife to free captive spring.



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

HARKEN

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