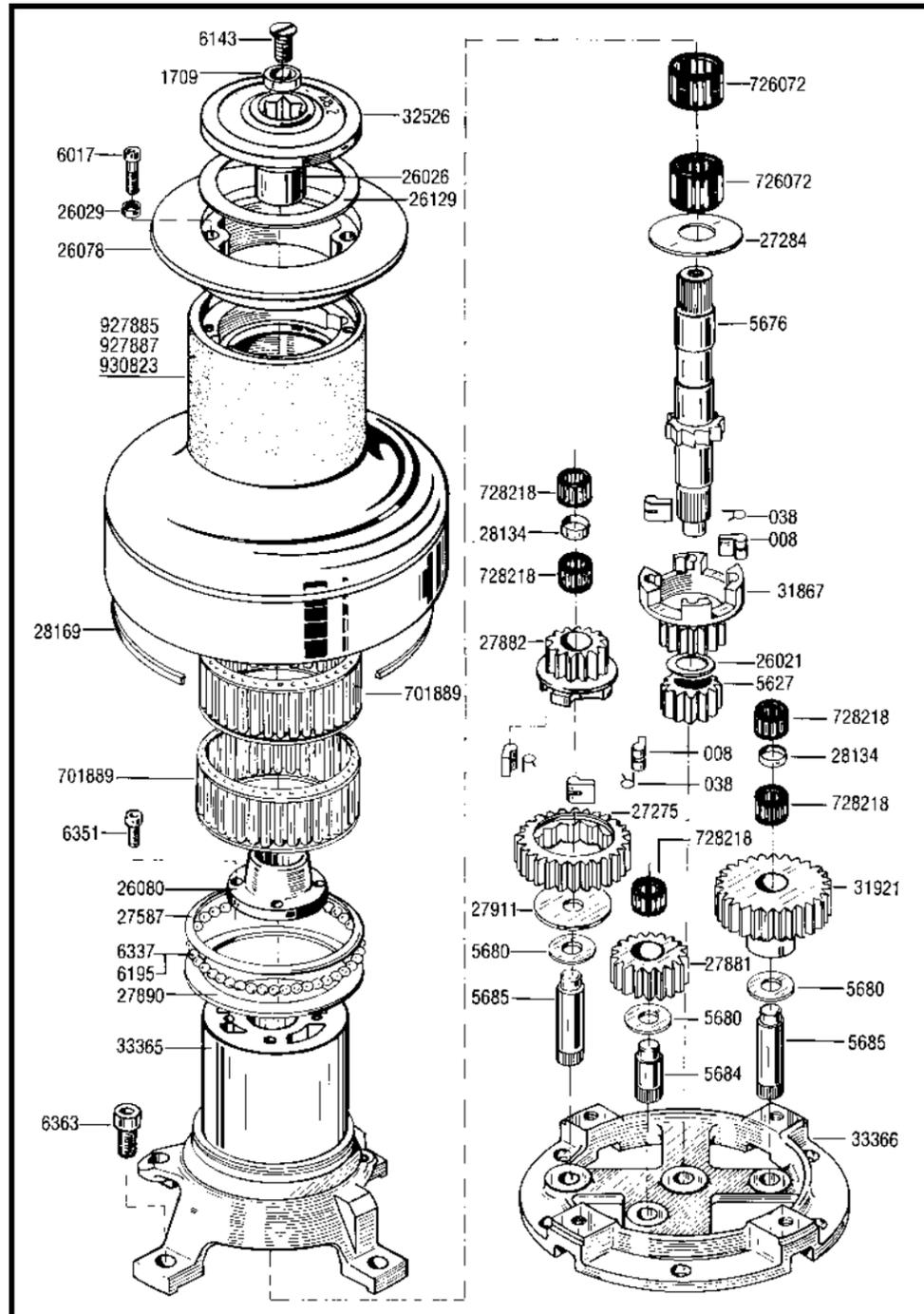


48.2

Two Speed Winch

48.3 Three Speed Winch

HARKEN®



When ordering parts for service, please include a "B" before each number (i.e. B008).

Tools

Tools Required

| |
|-------------------------------------|
| Allen Wrench (6mm) |
| Allen Wrench (5mm for Self-Tailing) |
| Screwdriver |
| Plastic Head Hammer or Mallet |
| Small Knife |
| Brush |
| Rags |
| Solvent |
| Oil |
| Grease |

Two Speed 48.2

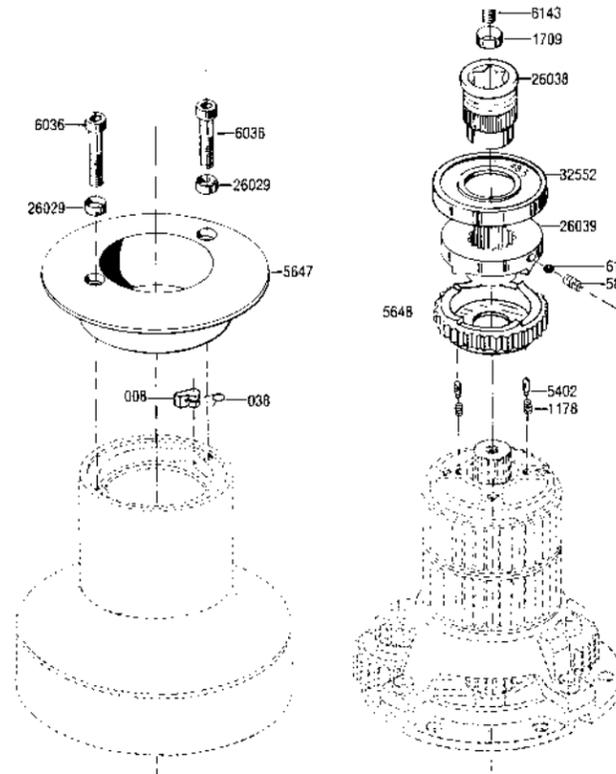
Parts List

| | |
|--------|----------------------|
| 008 | Pawl |
| 038 | Pawl Spring |
| 1709 | Plastic Washer |
| 5627 | Gear |
| 5676 | Spindle |
| 5680 | Washer |
| 5684 | Gear Shaft |
| 5685 | Gear Shaft |
| 6017 | Screw |
| 6143 | Top Screw |
| 6195 | Delrin Ball |
| 6337 | Stainless Steel Ball |
| 6351 | Screw |
| 6363 | Screw |
| 26021 | Washer |
| 26026 | Handle Socket |
| 26029 | Plastic Washer |
| 26078 | Drum Crown |
| 26080 | Stem Cap |
| 26129 | Plastic Washer |
| 27275 | Ratchet Gear |
| 27284 | Washer |
| 27587 | Thrust Bearing |
| 27881 | Gear |
| 27882 | Pawl Gear |
| 27890 | Thrust Washer |
| 27911 | Cover Plate |
| 28134 | Bearing Spacer |
| 28169 | Red Line Ring |
| 31867 | Pawl Gear |
| 31921 | Gear |
| 32526 | Top Cap |
| 33365 | Center Stem |
| 33366 | Base |
| 701889 | Bearing |
| 726072 | Bearing |
| 728218 | Bearing |
| 927885 | Aluminum Drum |
| 927887 | Chrome Drum |
| 930823 | Bronze Drum |

Suggested Service Kits

| | |
|--------|----------------|
| BK4512 | 10 Pawls 008 |
| | 10 Springs 038 |
| BK4513 | 100ml Grease |

Three Speed 48.3



Self-Tailing 48.2st

Parts List

| | |
|--------|------------------------------|
| 1709 | Plastic Washer |
| 6063 | Screw |
| 6068 | Screw |
| 6069 | O - Ring |
| 6084 | Screw |
| 6106 | Ball (32 required) |
| 6143 | Top Screw |
| 26029 | Washer |
| 26732 | Roller |
| 27676 | Drum Crown |
| 27696 | Handle Socket |
| 27699 | Washer |
| 32374 | Guide Ring |
| 32538 | Top Cap |
| 33602 | Upper Jaw |
| 33603 | Lower Jaw |
| 33604 | Adjusting Castle |
| 33666 | Shimming Washer |
| 33702 | Spring |
| 33703 | Chrome Stripper Arm |
| 33707 | Stripper Arm Support |
| 33751 | Spring |
| 33753 | Line Peeler |
| 33790 | Roller Shaft |
| 33898 | Bushing |
| 35345 | Bronze Stripper Arm |
| 933703 | Chrome Stripper Arm Assembly |

Suggested Service Kits

| | |
|--------|----------------|
| BK4512 | 10 Pawls 008 |
| | 10 Springs 038 |
| BK4513 | 100ml Grease |

Three Speed 48.3

Parts List

| | |
|-------|------------------|
| 008 | Pawl |
| 038 | Pawl Spring |
| 1178 | Stop Pin Spring |
| 1709 | Plastic Washer |
| 5402 | Stop Pin |
| 5647 | Drum Crown |
| 5648 | Lower Drive Ring |
| 5871 | Ball Spring |
| 6036 | Screw |
| 6141 | Detente Ball |
| 6143 | Top Screw |
| 26029 | Plastic Washer |
| 26038 | Handle Socket |
| 26039 | Upper Drive Ring |
| 32552 | Top Cap |

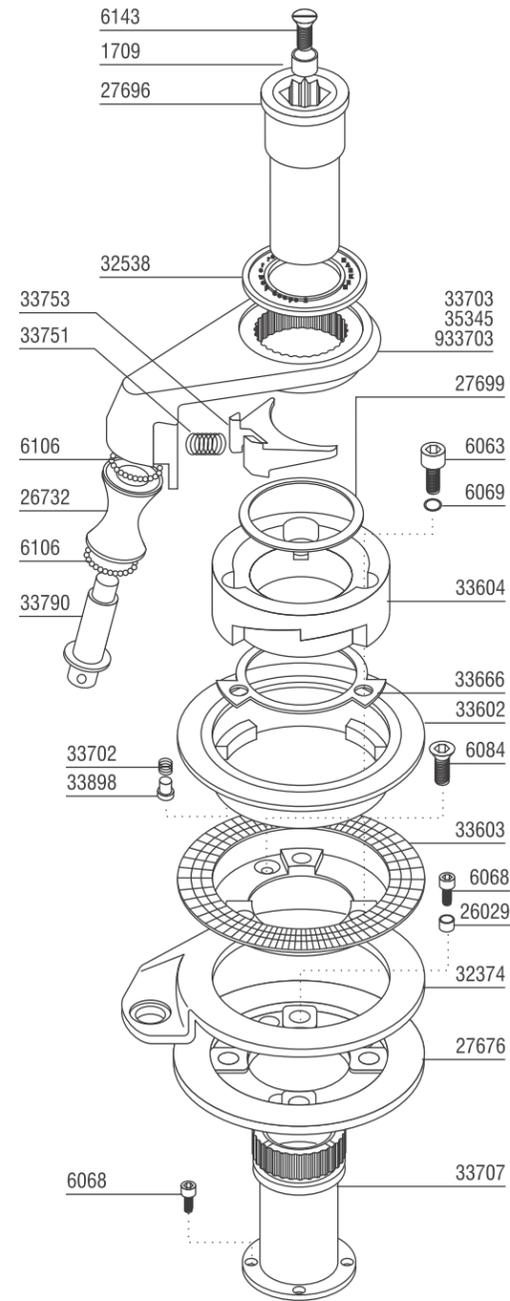
Suggested Service Kits

| | |
|--------|----------------|
| BK4512 | 10 Pawls 008 |
| | 10 Springs 038 |
| BK4513 | 100ml Grease |

48.2st

Two Speed Self-Tailing Winch

Winch Parts and Service Instructions



Recommended Service Cycle – Service winch before the sailing season and once during.

Adjusting Self-Tailer

If lines slip in the self-tailer, be sure that there are four or five wraps on the drum, then consider closing the jaws by pressing down on the upper jaw 33602 and turning counterclockwise.

The 33666 shimming washer must be removed to use small line.

The winch is more efficient when the jaw opening matches line size, so close the jaws only if you are using smaller line.

Positioning Stripper Arm

Loosen top screw
Remove handle socket
Lift stripper arm and position as desired

Opening Winch

Remove top screw
Lift off drum
On three speed winches, lift off three speed mechanism with handle socket
On self-tailing winches, lift off stripper arm with drum

Servicing Winch

Remove bearings from center stem
Drum support bearing 27587/6337/27890 can not be removed; clean with solvent and lubricate lightly with grease
Remove allen screws holding center stem to base
Remove center stem carefully
Remove pawls and springs - service as below
Remove all bearings, gear shafts and gears
Clean all parts with rags and solvent
Use a 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
Reassemble and dose winch

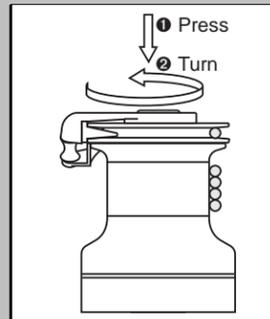
Servicing Pawls

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

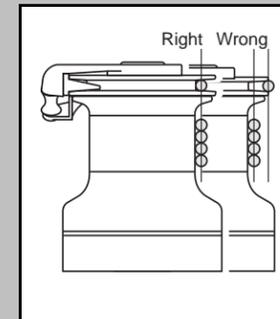
Fitting on Boat

Make sure mounting surface is flat
Check sheet entry angle
Open winch
Position winch on deck with drive gear where sheet enters winch drum and mark holes
Remove winch and drill holes
Mount using six 5/16" (8mm) flat head machine screws
Apply bedding compound and bolt winch to boat
Clean excess bedding compound from base drain holes
Lubricate and reassemble winch

Adjusting Self-Tailer



Press and turn to adjust self-tailer.

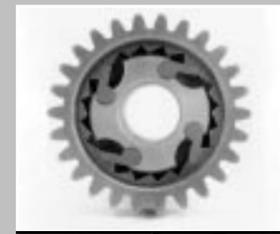


Correct opening: Sheet fits completely into jaw and rests against drum.

Servicing Winch



Clean all parts with solvent.



Attention: Ratchet gear mounted backwards will cause winch to slip.

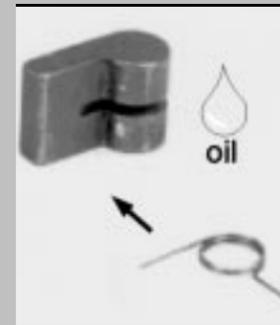


Grease lightly and spread grease evenly. Use a brush.

Servicing Pawls

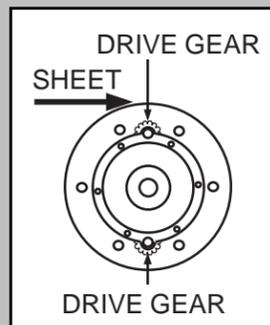


Use knife to free captive spring.

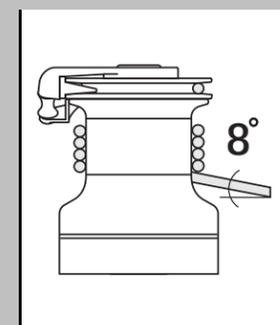


Insert spring with straight leg against pawl. Use oil for lubrication.

Fitting on Boat



Position stainless steel drive gear where line enters winch drum.



Sheet entry angle must be at least 8°.

H4606-5/98

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1251 E. Wisconsin Ave., Pewaukee, WI 53072 USA • Tel: (414) 691-3320 • Fax: 414-6913008
Via Della Cerca, 12/14, 22070 Lurago Marinone, Como, Italy • Tel: (39) 31.938840 • Fax: (39) 31.3520031