

# AUTO BRAKE WINCH

## Operating Instruction



Distributed By

# WESTECH RIGGING SUPPLY

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Model: BHW-800, BHW-1200, BHW-1800, BHW-2600

**WARNING: BEFORE USING THE WINCH, READ CAREFULLY THIS MANUAL AND KEEP IT FOR FUTURE NEEDS.**

### (A) SPECIFICATIONS

Model Number	BHW-800	BHW-1200	BHW-1800	BHW-2600
Lifting Capacity (Lbs. / Kg)	400 / 180	600 / 275	900 / 400	1300 / 590
Pulling Capacity (Lbs. / Kg)	800 / 370	1200 / 545	1800 / 820	2600 / 1200
Gear Ratio	4.1:1	4.1:1	5:1	10:1
Hub Diameter for Cable (inch / mm)	1 $\frac{1}{8}$ / 40	2 / 50	2 $\frac{3}{4}$ / 70	3 $\frac{1}{8}$ / 80
Hub Diameter for Strap (inch / mm)	1 $\frac{1}{8}$ / 40	2 / 50	2 $\frac{3}{4}$ / 70	3 $\frac{1}{8}$ / 80
Handle Length (inch / mm)	6 $\frac{5}{16}$ / 160	8 $\frac{1}{4}$ / 210	12 $\frac{5}{8}$ / 320	12 $\frac{5}{8}$ / 320
Max. Drum Capacity for Cable (Feet / M)	$\frac{5}{32}$ x 118 / 4x 36	$\frac{3}{16}$ x 76 / 4.8x 23	$\frac{1}{4}$ x 79 / 6.4x 24	$\frac{5}{16}$ x 59 / 8.0x 18
Max. Drum Capacity for Strap (Feet / M)	30 / 9	28 / 8.5	49.5 / 15	35 / 10.5

### (B) FEATURES

A high quality, multi-purpose winch. Frame is one-piece design, plastic handle grip, high strength alloy - steel gear of one-piece design, welded reel. Baked enamel and plated finish. Automatic brake that ensures suspension of the load.

### (C) OPERATION

Lifting of the load must happen by rotating the crank Clock- wise. When releasing the crank, the load remains suspended. The descent of the load must happen by rotating the crank counterclock-wise. The Automatic brake intervenes to avoid unchecked descent of the load.

### (D) IMPORTANT SAFETY INFORMATION

- This winch is not to be used to transport people or for loads over areas where people could be present.
- Never apply load on winch with cable fully extended. Keep at least three full turns of cable on the reel.
- Operate with hand power and with crank included in the equipment only. This winch should not be operated with a motor of any kind. If the winch cannot be cranked easily with one hand, it is probably over-loaded.

### (E) NOTE

The winch finish can be protected and will provide longer service if it is periodically washed with water and then wiped with light oil or wax.

### (F) LUBRICATION

This winch has been fully lubricated at the factory, but for continued smooth performance and increased life, occasionally grease gears, reel shaft, and handle threads.

### (G) CAUTION

Do not oil or grease brake mechanism.

### (H) FIXING OF THE STRAP TO THE DRUM

1. (a) BHW-800, BHW-1200, BHW-1800:  
Please refer figure 1.
- (b) BHW-2600:  
Please refer figure 2.
2. Completely tighten the bolt.

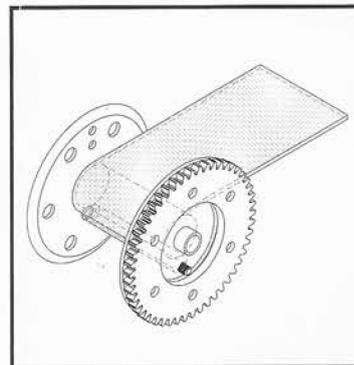


Figure 1

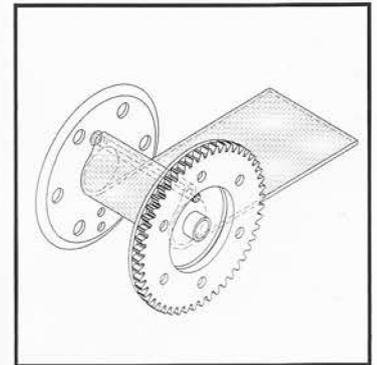


Figure 2

### (I) FIXING OF THE ROPE TO THE DRUM

1. (a) BHW-800, BHW-1200, BHW-1800:  
Please refer figure 3.
- (b) BHW-2600:  
Please refer figure 4.
2. Completely tighten the screw of the Fixing Device.

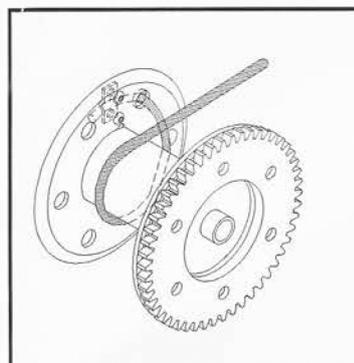


Figure 3

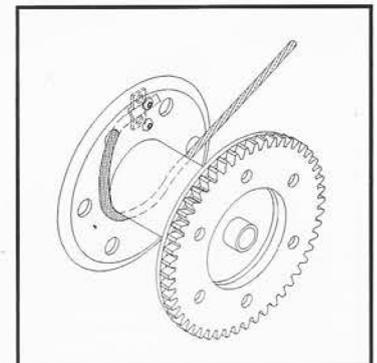
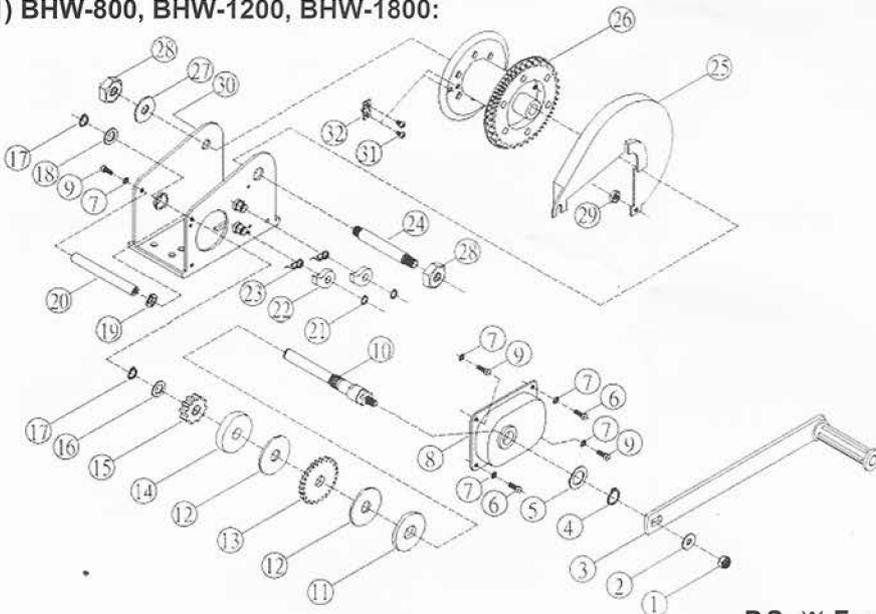


Figure 4

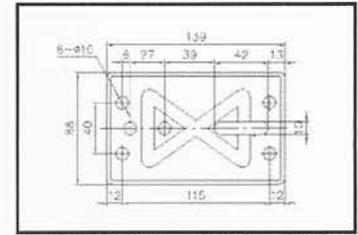


## (J) EXPLODED VIEW & PARTS LIST:

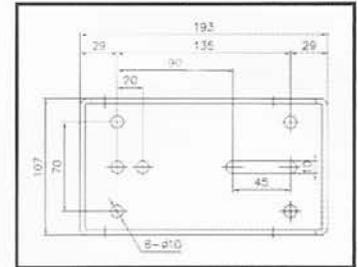
### (1) BHW-800, BHW-1200, BHW-1800:



Hole Shape:



BHW-800 , BHW-1200

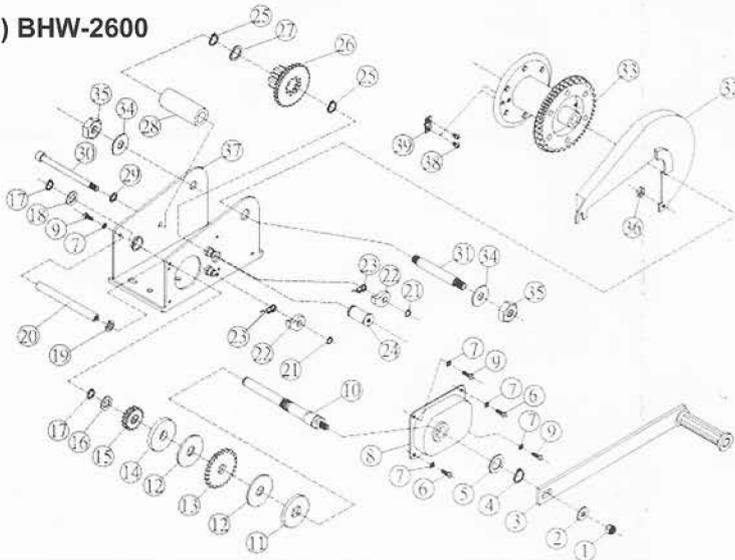


BHW-1800

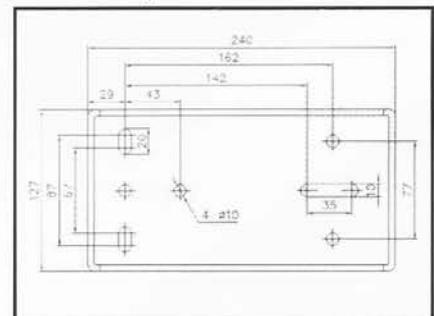
P.S. ※ For BHW-1800 only. ※※ Optional part.

REF.NO.	PART NO.	PART NAME	Q'TY	REF.NO.	PART NO.	PART NAME	Q'TY	REF.NO.	PART NO.	PART NAME	Q'TY
1	B-1	Nut ( BHW800 & 1200:M12 x P1.75 BHW1800 :M10 x P1.5 )	1 1	12	B-12	Friction Disc	2	22	B-22	Pawl	1 2
2	B-2	Flat Washer( BHW800 & 1200:Ø12 BHW1800 :Ø10 )	1 1	13	B-13	Ratchet Gear	1	23	B-23	Pawl Spring	1 2
3	B-3	Handle	1	14	B-14	Pressure Washer	1	24	B-24	Reel Bolt	1
4	B-4	Snap Ring ( BHW800 & 1200:S20 BHW1800 :S22 )	1 1	15	B-15	Pinion Gear	1	※※25	B-25	Gear Cover	1
5	B-5	Flat Washer( BHW800 & 1200:Ø20 BHW1800 :Ø22 )	1 1	16	B-16	Flat Washer ( BHW800 :Ø13x2mm BHW1200:Ø13x1mm )	1 1	26	B-26	Winch Reel	1
6	B-6	Screw (M6 x P1 x 10L )	2	※16	B-16	Flat Washer (BHW1800:Ø15x1.6mm)	1	27	B-27	Flat Washer( BHW800 & 1200:Ø12 BHW1800 :Ø16 )	1 1
7	B-7	Spring Washer (Ø6 # 2 )	4 5	17	B-17	Snap Ring ( BHW800 & 1200 :S13 BHW1800 :S15 )	2 2	28	B-28	Nut ( BHW800 & 1200:M12 x P1.75 BHW1800 :M16 x P2 )	1 2
8	B-8	Brake Cover	1	18	B-18	Flat Washer( BHW800 & 1200:Ø13 BHW1800 :Ø15 )	1 1	29	B-29	Nut ( M6 x P1 )	2 1
9	B-9	Screw (M6 x P1 x 16L)	2 3	※19	B-19	Self-Locking Ring (BHW-1800)	1	30	B-30	Winch Frame	1
10	B-10	Pinion Shaft	1	※20	B-20	Strength Bolt (BHW-1800)	1	31	B-31	Screw ( BHW800 & 1200 :M6xP1x10L BHW1800 :M6xP1x12L )	2 2
11	B-11	Brake Back-up Plate	1	21	B-21	Snap Ring (S12)	1 2	32	B-32	Fixing Device	1

### (2) BHW-2600



Hole Shape:



BHW-2600

REF.NO.	PART NO.	PART NAME	Q'TY	REF.NO.	PART NO.	PART NAME	Q'TY	REF.NO.	PART NO.	PART NAME	Q'TY
1	B-1	Nut (M10 x P1.5)	1	14	B-14	Pressure Washer	1	27	B-27	Flat Washer (Ø20)	1
2	B-2	Flat Washer (Ø10)	1	15	B-15	Pinion Gear (1 <sup>st</sup> Gear)	1	28	B-28	Socket	1
3	B-3	Handle	1	16	B-16	Flat Washer (Ø15)	1	29	B-29	Spring Washer (Ø10 # 2)	1
4	B-4	Snap Ring (S22)	1	17	B-17	Snap Ring (S15)	2	30	B-30	Gear Bolt(M10 x P1.5 x 130L)	1
5	B-5	Flat Washer (Ø22)	1	18	B-18	Flat Washer (Ø15)	1	31	B-31	Reel Bolt	1
6	B-6	Screw (M6 x P1 x 10L)	2	19	B-19	Self- Locking Ring	1	32	B-32	Gear Cover	1
7	B-7	Spring Washer (Ø6 # 2 )	5	20	B-20	Strength Bolt	1	33	B-33	Winch,Reel	1
8	B-8	Brake Cover	1	21	B-21	Snap Ring (S12)	2	34	B-34	Flat Washer (Ø16)	2
9	B-9	Screw (M6 x P1 x 16L)	3	22	B-22	Pawl	2	35	B-35	Nut (M16 x P2)	2
10	B-10	Pinion Shaft	1	23	B-23	Pawl Spring	2	36	B-36	Nut (M6 x P1)	1
11	B-11	Brake Back-up Plate	1	24	B-24	2 <sup>nd</sup> Gear Shaft	1	37	B-37	Winch Frame	1
12	B-12	Friction Disc	2	25	B-25	Snap Ring (S20)	2	38	B-38	Screw (M6 x P1 x 12L)	2
13	B-13	Ratchet Gear	1	26	B-26	2 <sup>nd</sup> Gear Set	1	39	B-39	Fixing Device	1

P.S. When ordering replacement parts, please specify Model No., Part No. & Quantity.