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Portable Power Electric Hoist

User Manual

MODEL:LES-500

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"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

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Portable Power Electric Hoist

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

IMPORTANT SAFEGUARDS

	Warning-To reduce the risk of injury, user must read instructions manual carefully.
	This symbol, placed before a safety comment, indicates a kind of precaution, warning, or danger. Ignoring this warning may lead to an accident. To reduce the risk of injury, fire, or electrocution, please always follow the recommendations shown below.
	Warning- Be sure to wear gloves when using this product.
	Wear head protection
	CORRECT DISPOSAL This product is subject to the provision of european Directive 2012/19/EU. The symbol showing a wheelie bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to acollection point for recycling electrical and electronic devices.

**WARNING**：Read all safety warnings, instructions, illustrations and specifications provided with this machine. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Basic Safety Information

1.Please read the operation manual carefully before using the electric hoist.

2.To Reduce the Risk of Electric Shock or Injury, Use Indoors Only.

3.The installation position of the electric hoist must be selected at a place that meets the needs and is convenient for operation.
4.Regularly check whether the hoist is firmly installed.
5. Please do not overload and do not use the hoist when the weight of the lifted object is not clear.
6.Do not operate hoist with twisted, kinked, or damaged wire rope. Inspect wire rope carefully before every use.
7.During lifting, it is not allowed to pull or lift heavy objects at an angle to avoid danger.
8. Do not operate a damaged or malfunctioning hoist. Inspect hoist carefully and test operation before every use.
9. Do not lift people or lift loads over people. Falling loads can injure or kill people.
10.No one is allowed to stand under the lifting object when lifting the heavy object with the hoist.
11.When operating the wire rope, please wear thickened gloves, and do not let the wire rope slip through your hand, so as to avoid slipping or stabbing.
12.This electric hoist shall not carry people in any way or be used as an elevator lifting tool.
13. The operator should not operate the electric hoist under the condition of drinking, taking medicine or being ill.
14.Do not modify or weld the parts of the electric hoist at will.
15.When lifting the hoist, ensure that at least 3 coils of wire rope are retained on the rope barrel to prevent the wire rope from falling off the rope barrel due to excessive stress.
16. Before starting the work,make sure that the steel cable is correctly winded around the reel and that the pitch is equal to the cable diameter.
17.The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS

1.PRODUCT PARAMETERS

Model: LES-500

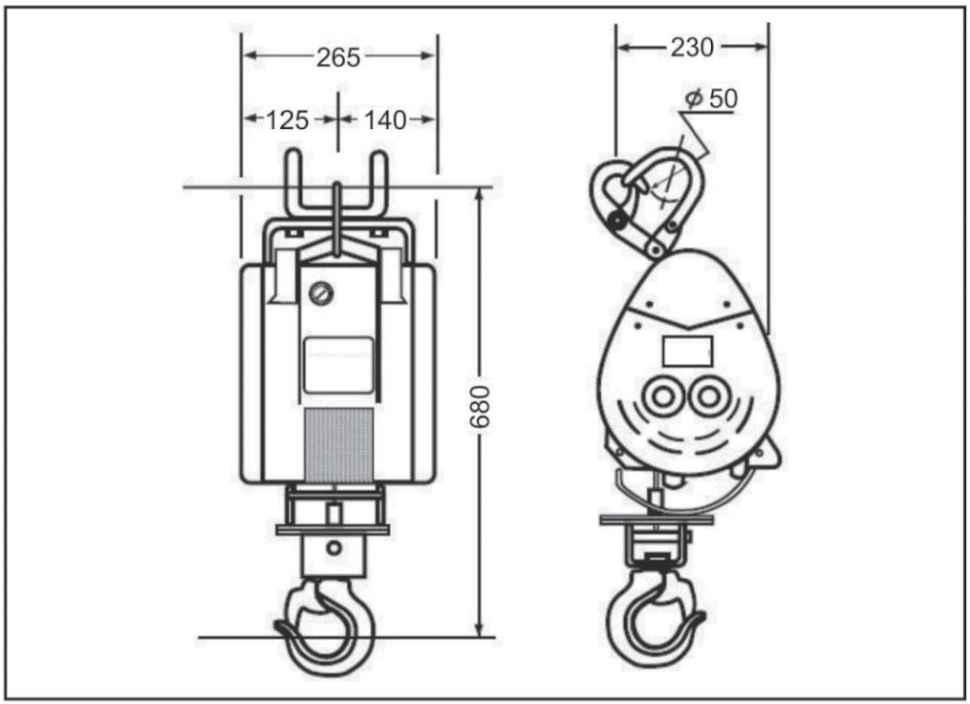
Rating(s): 120V~ , 60Hz ,1800W OR 220-240V~, 50Hz, 1800W

Lifting Capacity: 1100Lbs(500kg) Max.

Lifting Speed: 36Ft/min (11m/min)

Lifting Height: 98Ft(30m)

Control Methods:Wired/Wireless



- Lightweight & compact desing allow mounting convenient.
- When rope touches the limit arm, hoisting is automatically stopped.
- A sensor arm stops the motor when the rope is reverse winding.
- Dynamic brake designs for both static and dynamic loading.
- It operates on household power source.
- Plug-in cords allow portability with easy.
- 360° universal joint saddle hook with safety latch.

Mini winch with built-in safety
devices feature easy control of lifting for a wide range of applicability for warehouse, storage areas, factories, house areas, conatruction sites, job sites and plumbing.

2. INSTALLMENT PRECAUTION

2. 1 ENVIRONMENT PRECAUTION:

⚠ WARNING	
⊘	• The following environmental conditions may result in the possible causes of winch truouble.

• Low temperature below-10℃ high temperature above 40℃ or humidly above 90% conditions.

• In heavy acid or salty conditions

※Cause malfunction of spare part



• In a organic chemistry of explosive power conditions

※Cause explosion



• In the rain or snow

※Cause rust or short circuit



• In a heavy general powder conditions

※Cause maifunction of performances



2. 2 CONTINUOUS RATING:

⚠ PRECAUTION	
⊘	• Never hois over the rated percentage duty cycle

The life of the winch is depending on the conditions of the load and working frequency.
In the long time operation, make sure to use the machine within its continuous ratings.
Continuous ratings means the working duty cycle(%ED)is subject to the eated voltage rated frequency and a 63% of rated load.

$$\text{Percentage duty cycle (\%ED)} = \frac{Tb}{Tb+Ts} \times 100(\%)$$

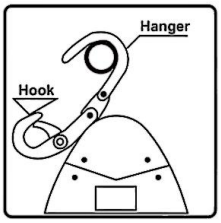
Tb: total sum of overall loading operating hours
Ts: total sum of stopping hours
Tb+Ts = approximately 1 to 10 min

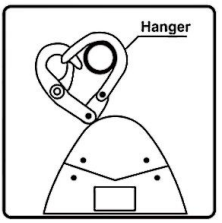
The maximun of starts of the machine means the ummber of starts of motor per 1 working hour including the pause hours of winch which is value of number working times added with the rumber of inching.

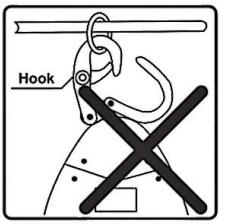
2. 3 MOUNTING:

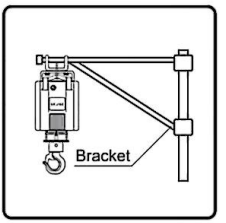
The winch designed to be hanged or mounted on a firm or stable bar or a bracket.
When hanging. do not allow the body or load to be caught by any construction of frame, or other obstruction.

Be sure to lock the hanger for extra safety.







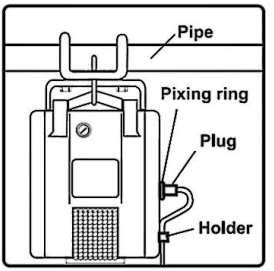


2. 4 PLUG INSERTION:

2. 4(a) Power core insertion:

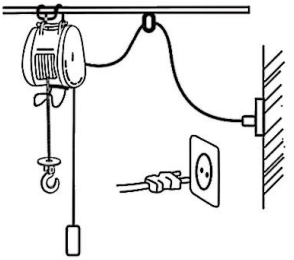
Insert the power plug into the power receptacle of the winch, and tighten it by turning the locking ring, clockwise.

Be sure to lock the cord by a holder, Bo not allow the cords to be caught by wire rope and drum.
The length of power cord is subject to the distance of 20 meter, for any other case, please use a power cable by 3.5mm2 to prevent a considerable voltage drop to be happened.



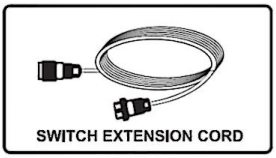
The selection of power cord section

Section	Cord Length
2.0mm^2	20m
3.5mm^2	35m



2.4(b) Grounding:

To prevent the risk of electric shock, the power plug must be plugged into a matching outlet and grounded in good condition.



2.4(c) Switch cord connection:

(1) Insert the switch plug into the switch receptacle of the winch and tighten it by turning the locking ring clockwise.
Be sure to hook the cord by a holder.

(2) To extend the length of to switch cord, please adopt a switch extention cord (10M).

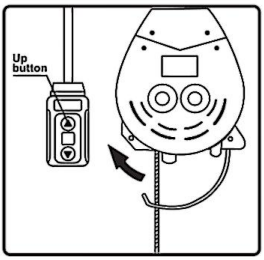
3. WORKING METHODS

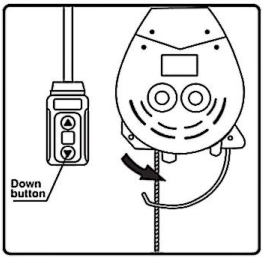
3.1 PREPARATION BEFORE WORKING:

- Be sure to carefully check all safety and environmental conditions.
- A minimum of five (5) wraps of wire rope wound around the drum is necessary. A wire rope should be discarded and not be used again if rope shows sign of excessive wear too many broken wires. Corrosion or other defects.
- Make sure to connect the main power source and grounding.
- It's not safe to lift loads exceeding the rated load.
- Connect power source at rated voltage.
(It will cause maladjusted working if input voltage falls out of rated voltage by ± 10%)

3.2 UP AND DOWN SWITCHING:

To lift a load, press ↑ button and drum will rotate as shown below operation.
To lower a load, press↓ button and drun will rotate as shown below.





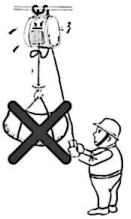
When the button is released, the drum will stop moving

4. HANDING PRECAUTION

4. 1 ENVIRONMENT PRECAUTION:

⚠ WARNING	
⊘	• Pay best attention to the following instruction. Obvious mistakes in operaton may result in personal inquiry or equipment damage.

• Never try to lift a load more than the rated cap.



• Never hitch a ride on the hook, sling or load being moving.

※Winches are not to be used for lifting or lowering people.



• Don't work, walk or stand under an operating winch.

• While working, never stand under a lifting load or within the conveying area.



• Always remain in control, Never negiect the winch while actually hoisting a load.

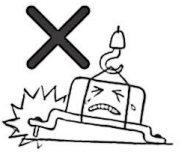


• Always look up when working around winch, thers is potential danger overhead.

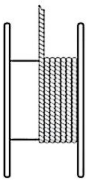
※Be sure to lift a load vertically. Slack may allow wires to be caught in the drum.



• Never gravitate a load freely.



• A minimum of five (5) wraps of rope around the drum is necessary to support the load rated.



• Prior to staring of use, carry out the dally checking without fall, and after conflrming the safety of function.



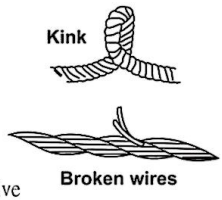
• If having a counter rotation incurred, make sure to correct its tuming direction.

• Prior to lifting. Make sure to have a precise performance of brake. If any malfunction of brake happened, stop the operation immedlately.

• When load suspended in air, it will not allow to be weiding.
5Never weld a load while actually lifting a load.



• Wire rope with one or more of the following defects shall be removed or replaced immediately.
(1)kink
(2)distortion
(3)corrosion
(4)showing sings of excessive wear or of having broken wies not less than 10 pcs.



• Stop the oporation if there is any queer noise or vibration in the gear box to be happeded.

• Do not connect the wire rope with the grounding of welding machine.

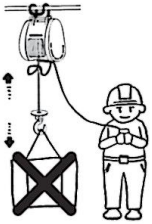
• While welding, do not have any contact with the welding objects because of having spark.

• Do not pull the switch cord to move a load.

• Do not over continuous ratings.

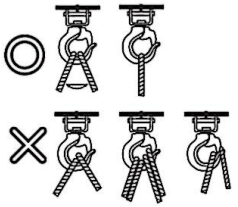


• Never plugging (istant reverse-wind) and inching.



• In order to prevent the layer down due to over loosening of rope, irregular winding, etc.,operate according to the suitable operating method.

• Use a winch by fixing so securely that the rope around the drum is uneven.



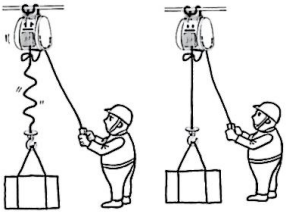
• Be sure to fix a rope in the center of swivel hook.

• Be sure to stop operation immediately when the wire rope become fully slackened.

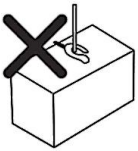
• Avold catching the hook or lifting a load on a fixed obstruction.

• Always leave the push button switch positioned immedlately after use.

• Make sure that the load being lilfting are well balacnced and secured before starting.



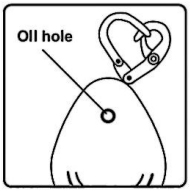
• Avoid water splashes on the push button switch.



• Never wrap the load with the wire rope.

5. 1 OIL LUBRICATION:

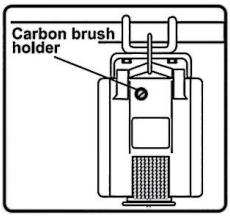
Winch are prefabricated at the factory and do not require initial lubriction.
Relubrication interval depends upon service.
Recommended oil replenishment quantity & intervals are as follows.



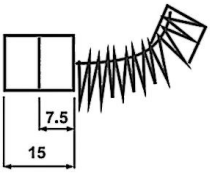
5. 2 CARBON BRUSH REPLACEMENT:

⚠ WARNING	
⊘	• Clean the accumulated powder of corbon brrush periodicakky to ascertain the insulation resistance up to 1MΩ.

- It is essential to check the carbon brush periodically.
  It its length is left less than 7.5mm resulting from wearing, it is absolute necessary to replace crbon brush immediately.



- While replacing, smoothly insert carbon brush into crbon holder in the first place.then put brush cap into the hole.
- Before tightening the carbon brush holder, make sure to position 0 ring.
- A set of carbon brush consists 2 piece of carbon brush. Ascertain to replace 2 pcs of carbon brush on opposite sides of winch body at the same time.



Carbon brush length

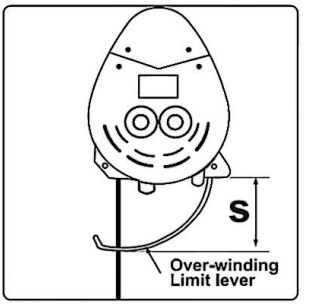
5. 3 BRAKING:

- Braking device are composed of a mechanic brake and a electronic generated brake. The brake distance from the time of braking until stopping completely should be within 1.5% of rope length to the wound in during 1 minute.
- Owing to the rope speed on no load is faster than that on rated load, the brake distane on no load will be longer, but still within 1.5% of rope length.
- The rope speed on no load is 1.5-1.8 times of rated speed on rated load.

5. 4 OVER-WINDING LIFT PREVENTION DEVICE:

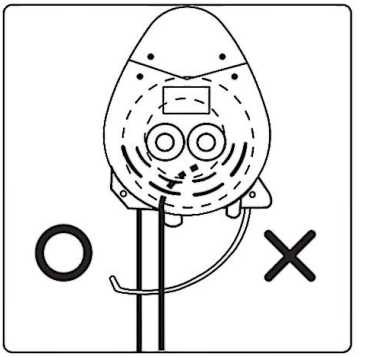
- A special mechanism prevents a over-winding when lifting.
- When the swivel hook touces the limit lever. Lifting is automatically stopped.

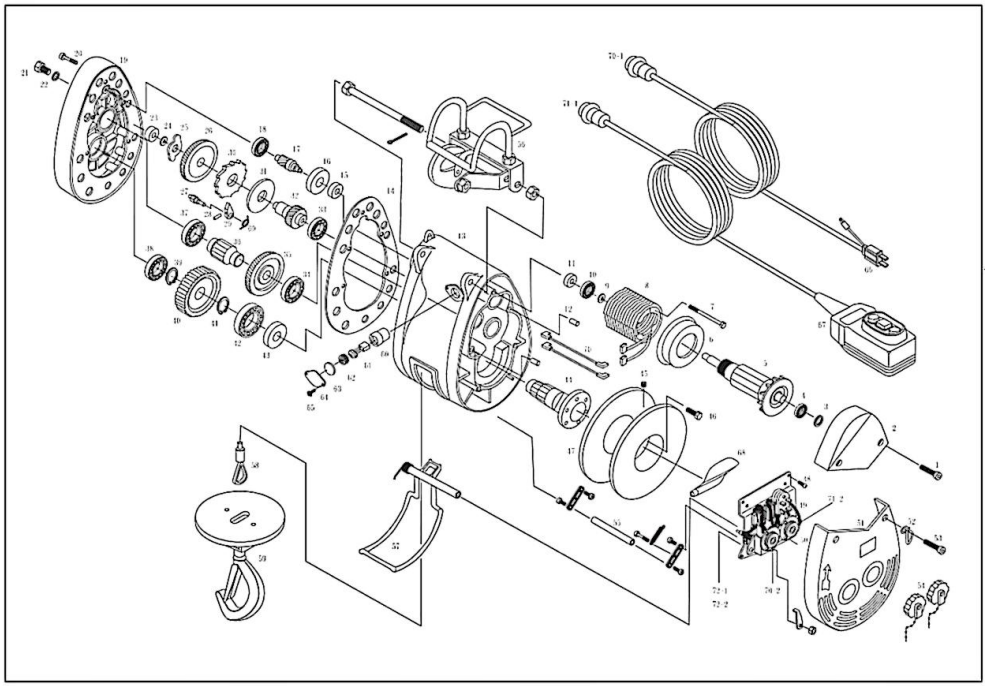
- However, if the limit lever is set too close to the winch body, it will cause serious damge to the limit lever and the winch body.



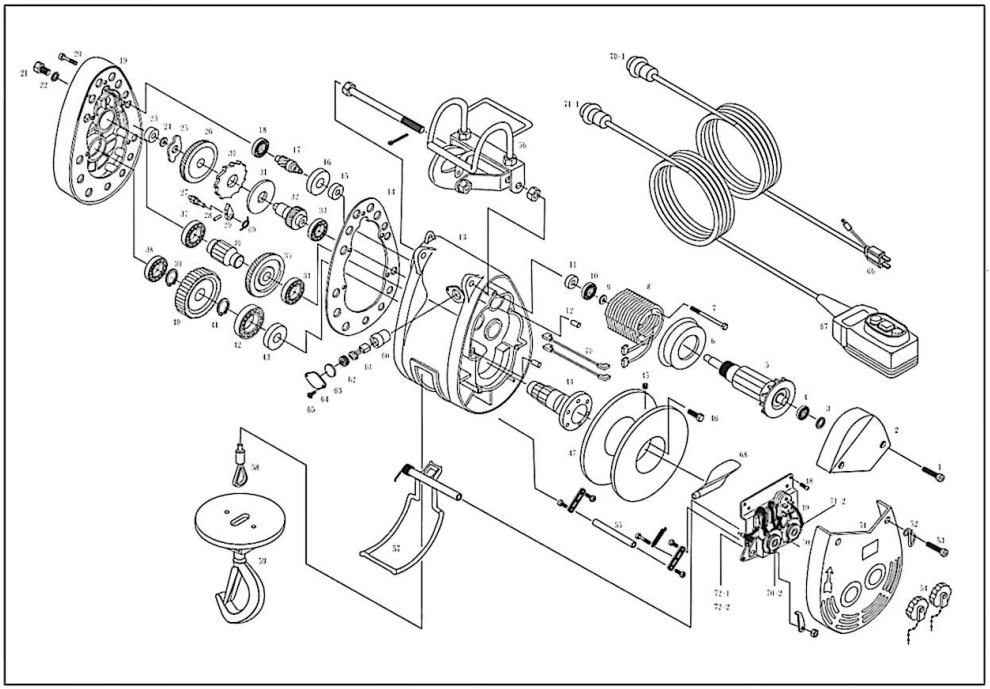
5. 5 REVERSE WINDING PREVENTION DEVICE:

- A special mechaning provonts a over reverse-winding when lowering.
- Whan lawsning, a wire rope is fully extended, the wire rope will be shifted its position form to X.
- When a wire rope thouches the limit lever of over-winding prevention device. Lowing will be automatically stopped.
- When the wire rope is shifted to the position of X. Pull it and press the ↑ button to return its position to 0.





NO.	DESCRIPION	Q'TY	NO.	DESCRIPION	Q'TY	NO.	DESCRIPION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
2	MOTORCOVER	1	25	1/2CIRCLE-KEY	1	48	SCREW	4
3	WASHER	1	26	2ND GEAR	1	49	CONTROL ASS'Y	1
4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			



NO.	DESCRIPION	Q'TY	NO.	DESCRIPION	Q'TY	NO.	DESCRIPION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
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4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
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9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			

FCC Information（FCC ID:2BCH8-YTK）:

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This product may cause harmful interference.

2)This product must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product.

Note: This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, it may cause harmful interference in radiocommunications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

· Reorient or relocate the receiving antenna.

· Increase the distance between the product and the receiver.

· Connect the product to an outlet on a circuit different from that to which the receiver is connected.

· Consult the dealer or an experienced radio/TV technician for assistance.

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