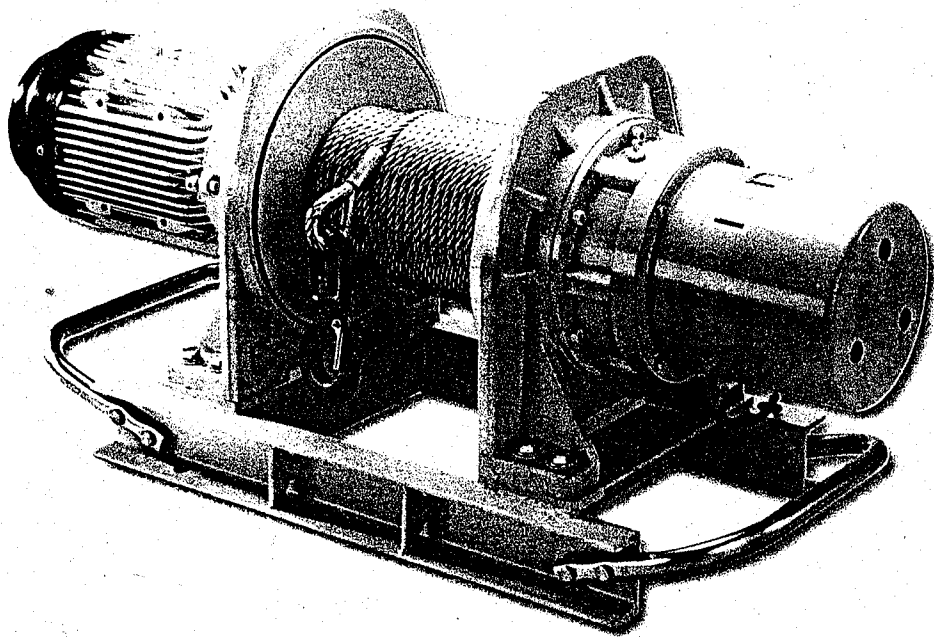


WINCHMASTER



CWG-10151, CWG-30151 SERIES

300 - 500kg LIFTING CAPACITY

240v x 1ph 415v x 3ph ELECTRIC

INTRODUCTION

Thank you for purchasing a Winchmaster AC Power winch. It has been designed and manufactured to provide years of trouble free operation. We hope you will be pleased with its performance. If you are not, for any reason, please contact our Customer services department at the address shown on the front of this manual.

Always give the following information:

1. Model number CWG-10151
2. Voltage and phase 415v 3ph
3. Serial number 756

If ordering replacement parts from this manual, please supply:

1. Model number
2. Voltage and phase
3. Serial number
4. Part number
5. Part description

Please read and understand this owner's manual before using your winch. Pay particular attention to the **RULES FOR SAFE OPERATION**. Your winch is a very powerful machine. If used unsafely or improperly, there is a possibility that property damage or personal injury can result. We have included several unique features in the winch to minimize this possibility; however, your safety ultimately depends on your caution when using the product. Correct installation of your winch is a requirement for proper operation. This winch should only be installed and connected up by a qualified electrical engineer.

WARNING : Winchmaster AC Come-Up winches are not to be used to lift, support or otherwise transport personnel. Any such use shall be considered to invalidate the warranty and Winchmaster shall not be responsible for any claim arising from such use.

Note the electric requirements of the winch you have purchased:

110/240v AC Single phase 220/415v AC 3 phase
220v/415v AC 3 phase & neutral

Winchmaster reserves the right to alter model specifications without prior notice.

Congratulations on your choice. Please keep this owners manual near the winch at all times.

GENERAL DESCRIPTION

EACH WINCHMASTER COME UP WINCH FEATURES:

ELECTRIC MOTOR - 110V/240V 1 PHASE. 220V/415V 3 PHASE.

Motor speeds - 925 / 1425 / 2800 RPM

Planetary gear reduction - 2 stage gear reduction using heat treated gears with bearings for durable performance and anti-wear.

Braking - Designed for static and dynamic loading, self adjusting. The brake will automatically apply in the event of power loss.

Drum - Transmission provides easy rope replacement and alternation of rotation if required.

The winch is fully reversible and can be controlled by standard contactors or by low voltage hand held remote control. Options for control are by infra-red or thyrister soft start units.

The standard unit is supplied with a hand held low voltage control to EEC specification. Other control systems supplied if required. All winches supplied with wire rope, basic winches supplied on request.

FITTING INSTRUCTIONS FOR AC 240V 1PH AC WINCH

Mount winch frame securely making sure that the frame is not twisted

The following must be carried out by a competent electrician

Mount the control panel in a suitable position and connect up the winch motor to the overload relay. Check that this unit is set at the current rating as stated on the motor. Do not increase this setting.

Power Supply

The supply must be 240v 1 phase AC with an neutral and earth

Connect up the supply, this must be through an isolator switch. After switching the power on, operate the hand control checking that the switch operates the drum in the correct rotation as required for the winch.

Install the wire rope and wind on, keeping tension on the rope making sure that the rope layers evenly and that the rope is not snagged or looped before powering the winch in.

DO NOT OVERLOAD WINCH. If excessive loads are to be moved use a snatch block. This will half your speed but double the pulling capacity.

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* * * * *  
*  WARNING: This equipment is not designed for  *  
*  transport of persons. It is forbidden to use *  
*  it on free fall during lifting operations.  *  
*  For all applications, please read carefully *  
*  the advice in this installation manual.     *  
* * * * *
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This winch is guaranteed for 12 months from proved date of purchase. In case of failure the winch complete must be returned to Winchmaster Ltd for service. For further information please contact Winchmaster Ltd direct.

OPERATING INSTRUCTIONS

PLEASE PASS THESE INSTRUCTIONS ON TO WINCH OPERATOR

WINCHING IS POTENTIALLY DANGEROUS

OBSERVE THE FOLLOWING SAFETY RULES WHEN WINCHING

1. Always use a well maintained recommended wire rope.
2. Always stand at least 3 metres from the winch. When operating the winch, ensure that this distance is maintained.
3. DO NOT stand on or wrap rope around hand or body. When the rope is under tension, do not step over the rope from the winch to the load.

WINCHING PROCEDURE - It is recommended that winching operations should be carried out by two or more people.

1. Make sure that the rope is not fouling any obstacle.
2. Make sure that the red button on the hand set is in its 'up' position. Press the 'in' button on the hand set. The winch will now rotate, pulling the load in. NOTE - THIS WINCH IS NOT FITTED WITH AN AUTOMATIC CUT OUT WHEN THE ROPE IS FULLY WOUND ON THE DRUM.
4. To wind out, press the 'out' button on the hand control.
5. In emergencies, to stop the winch and isolate the power supply, press the red button on the hand control.
6. OVERLOAD PROTECTION - (Only with low voltage controls) If the winch is overloaded, the electric thermal cut out relay will stop the motor. After a few seconds this will switch the power back on. Power the winch out to release the load and either fit a snatch block or reduce the load to be pulled.

RULES FOR SAFE OPERATION

Your Winchmaster AC winch is a very powerful machine. Treat it with respect, use it with caution, and always follow these safety guidelines.

1. **DO NOT OVERLOAD YOUR WINCH.** Do not maintain power to the winch if the motor stalls. Overloads can damage the winch and / or the wire rope and create unsafe operating conditions. **FOR HEAVY LOADS, USE THE OPTIONAL PULLEY BLOCK** (part No. 7750). This reduces the load on the winch and the strain on the wire rope by approximately 50%
2. **NEVER USE YOUR WINCH FOR LIFTING OR MOVING PEOPLE.**
3. **DO NOT OPERATE WINCH WHEN UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR MEDICATION.**
4. **AFTER READING AND UNDERSTANDING THIS MANUAL LEARN TO USE YOUR WINCH.** After installing it, take some time and practice using it so you will be familiar with it when the need arises. Periodically, check the winch installation to insure that all bolts are tight.
5. **KEEP WINCHING AREA CLEAR.** Do not allow people to remain in the area during winching operations. Do not step over a taut wire rope or allow anyone else to do so.
6. **INSPECT WIRE ROPE AND EQUIPMENT FREQUENTLY.** A frayed rope with broken strands should be replaced immediately. Always replace the rope with the manufacture's identical replacement part. **OTHER EQUIPMENT** used with the winch such as tackle, hooks snatch blocks, straps etc. should be equal or exceed winch capacity and should be inspected for damage that could reduce their breaking strength.
7. **USE HEAVY LEATHER GLOVES** when handling wire rope. **DO NOT LET WIRE ROPE SLIDE THROUGH YOUR HANDS.**
8. **ALWAYS MAKE SURE** that there are at least 5 complete turns of rope left on the drum before winching since the rope fastener will not support a heavy load.

9. **KEEP HANDS AND FINGERS CLEAR OF WINCH ROPE AND HOOK WHEN OPERATING WINCH.** Never put your finger through the hook when reeling in the last few feet. If your finger should become trapped in the hook, you could lose your finger. Never guide a wire rope under tension onto the drum with your hand.
10. **NEVER HOOK THE ROPE BACK ONTO ITSELF.** Hooking the rope onto itself creates an unacceptable strain, breaking individual strands which in turn weakens the entire wire rope.
11. **AVOID CONTINUOUS PULLS FROM EXTREME ANGLES** as this will cause the wire rope to pile up at one end of the drum.
12. **NEVER OBSCURE THE WARNING AND INSTRUCTION LABELS.**
13. Always operate the winch with an unobstructed view of the winching operation.
14. When moving a load, slowly take up the wire rope slack until it becomes taut. Stop, recheck all winching connections. Be sure the hook is properly seated. If a nylon sling is used, check the attachment to the load.
15. **DO NOT MACHINE OR WELD ANY PART OF THE WINCH.** Such alterations may weaken the structural integrity of the winch and could void your warranty.

OPERATION TROUBLE SHOOTING GUIDE

Conditions and possible cause.

Drum will not rotate at all

Gears damaged or drum out of line because winch not mounted squarely.

Drum will not rotate under load.

Load greater than rated capacity of winch.

Winch runs too slow.

Motor worn out, or phase off.

Oil leakage around drum flange.

Damaged drum seals.

Load drifts.

Worn brake.

Excessive noise.

Low oil level.

Motor only runs in one direction.

Faulty contactors or broken lead in hand control.

Motor runs extremely hot.

Armature dragging, damaged motor bearings.

Motor runs but with insufficient power or with low line speed.

Check line voltage, phases and contactors. Check for seized drum.

Motor runs but drum does not turn.

Check drive shaft engaged in gearbox.

WINCHMASTER LIMITED WARRANTY VALID WORLD WIDE

Limited Warranty. Winchmaster ("Seller") warrants to the original buyer ("you") all parts and components except wire rope to be free of defects in materials and workmanship for a period of (one) 1 year from the provable date of purchase. Any Winchmaster product which is defective will be repaired or replaced without charge to you, upon compliance with these procedures. The warranties set forth herein are exclusive and in lieu of all other warranties, whether oral or written, express or implied.

Limited Warranty Performance Procedure. Upon discovery of a defective Winchmaster winch, you shall mail to the Seller at his factory or any Factory Authorized Service Centre written notice of such defect and mail, ship or otherwise deliver the defective Winchmaster product, postage or shipping prepaid. Repairs or replacements by Seller under this limited Warranty will normally be accomplished within fifteen (15) days after receipt of the defective Winchmaster winch. Seller or its Authorized Agents may make reasonable charges for parts and labour for repairs not covered by this limited warranty.

Warranty And Remedy Limitations And Exclusions. Repair and/or replacement of the defective Winchmaster winch or component thereof as proved herein is the exclusive remedy for the Buyer. The following exclusions or limitations on warranties and limitations of remedies shall be expressly applicable:

A. Express warranties. Seller Warrants that the Winchmaster winch is as described in the "Winchmaster Owners Manual" provided herewith; no other express warranty is made in respect to the Winchmaster winch. If any model or sample was shown to the Buyer, such model or sample was used for illustrative purposes only, and shall not be construed as a warranty that the Winchmaster winch will conform to the sample or model. **SELLER MAKES NO EXPRESS WARRANTY WITH RESPECT TO WIRE ROPE INCORPORATED IN THE PRODUCT.**

B. Implied Warranties. THE IMPLIED WARRANTY OF MERCHANTABILITY AND ALL OTHER IMPLIED WARRANTIES SHALL ONLY EXTEND FROM THE PROVABLE DATE OF PURCHASE FOR ONE (1) YEAR. THE WIRE ROPE IS SOLD "AS IS" WITHOUT ANY IMPLIED WARRANTIES.

C. **Incidental and Consequential Damages.** SUBJECT TO SELLER'S LIMITED WARRANTY OBLIGATIONS SET FORTH HEREIN, SELLER SHALL NOT BE RESPONSIBLE FOR INCIDENTAL DAMAGES OF ANY KIND, OR FOR CONSEQUENTIAL DAMAGES TO PROPERTY, LOSS OF PROFITS AND LOSS OF USE WHICH MAY BE CAUSED BY ANY DEFECT IN, OR MALFUNCTION, OR FAILURE OF ENCLOSED WINCHMASTER WINCH.

D. **Condition of Warranty.** Seller shall not be required to comply with its warranty duties provided herein if the defect, malfunction, or failure of the Winchmaster winch was caused by damage (not resulting from defective or malfunctioning components) or unreasonable use by you. Unreasonable use shall include, but is not limited to, installation or use of the Winchmaster winch without compliance with the instructions contained in the Winchmaster Owners Manual for the particular model number. Sellers liability under this warranty or for any loss or damage to the Winchmaster product shall not exceed the cost of correcting defects in or replacing the Winchmaster product, and upon expiration of the warranty period, all such liability shall terminate. The agents, dealers and employees of the Seller are not authorized to make modifications to this warranty, or additional warranties binding on the Seller. Accordingly additional statements, whether oral or written, do not constitute warranties and should not be relied upon.

LEGAL REMEDIES OF BUYER. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary within the United Kingdom and from country to country. You may also have implied warranty rights. In the event of a problem with Limited Warranty service or performance, the Buyer may be able to go to the small claims court in the United Kingdom or to appropriate jurisdictions outside the UK.

INQUIRIES. Any enquiries regarding compliance with the warranties provided herein may be addressed in writing to:

WINCHMASTER LTD. UNIT 6, SOUTH ORBITAL TRADING PARK, HEDON ROAD,
HULL HU9 1NJ