

KEEPER PERFORMANCE ENGINEERED™ WINCHES



*INCLUDES MOUNTING PLATE

OWNER'S MANUAL MANUEL DE L'UTILISATEUR / MANUAL DEL PROPIETARIO MODEL / MODÈLE / MODELO: KU6.0

**12V DC ELECTRIC WINCH
TREUIL ÉLECTRIQUE 12 Vcc. / CABRESTANTE ELÉCTRICO DE 12 V CC**

⚠ CAUTION! / ATTENTION! / PRECAUCIÓN! ⚠

**READ AND UNDERSTAND THIS MANUAL BEFORE INSTALLATION AND OPERATION OF THIS PRODUCT.
VEUILLEZ LIRE ET VOUS FAMILIARISER AVEC CE MANUEL AVANT L'INSTALLATION
ET LA MISE EN SERVICE DU PRODUIT.**

LEA Y ENTIENDA ESTE MANUAL ANTES DE LA INSTALACIÓN Y FUNCIONAMIENTO DE ESTE PRODUCTO

**DO NOT RETURN THIS PRODUCT TO SELLER. CALL KEEPER WINCH AT 800-533-7372 FOR ASSISTANCE
NE PAS RETOURNER LE PRODUIT AU REVENDEUR. APPELEZ KEEPER WINCH**

AU 1-800-533-7372 POUR OBTENIR DE L'AIDE.

NO DEVUELVA ESTE PRODUCTO AL VENDEDOR, LLAME A KEEPER WINCH AL 800-533-7372 PARA OBTENER AYUDA.

Hampton Products International Corp.
322 Main St.
Willimantic, CT 06226
800-533-7372

www.keeperwinches.com or keeperwinches@hamptonproducts.com

KU6.0 12 Volt DC ELECTRIC WINCH

Designed for Vehicle Recovery, Vehicle Trailers and General Winching Applications.
THIS PRODUCT IS NOT INTENDED FOR LIFTING/HOISTING

Assembly & Operating Instructions



PLEASE READ ALL SAFETY PRECAUTIONS AND WARNINGS BEFORE INSTALLING AND USING THE WINCH! IF YOU HAVE ANY QUESTIONS PLEASE CONTACT OUR CUSTOMER SERVICE DEPARTMENT LISTED BELOW.

Introduction

Thank you for purchasing your KEEPER® Winch.

PLEASE READ ALL INSTRUCTIONS, PAYING SPECIAL ATTENTION TO THE SAFETY INSTRUCTIONS.

Your KEEPER® Winch has been designed and manufactured to provide years of trouble-free operation.

If you are not satisfied, for any reason, please contact Customer Service at 800-533-7372, visit our website: www.keeperwinches.com or contact keeperwinches@hamptonproducts.com. When requesting information in regard to this winch, please give the following information:

Winch Part # _____ and Serial number _____.

(Please write down this information here for future reference.) (Found on Motor Housing)

Please read and understand this Owner's Manual prior to installing and operating this product. **PAY PARTICULAR ATTENTION TO THE GENERAL SAFETY INFORMATION.** Your Winch is a powerful machine. If used unsafely or improperly, there is a possibility that property damage and/or personal injury can result. Your safety ultimately depends on your caution when using this product.

General Description

This KEEPER® Winch is equipped with a series wound, 12 Volt DC motor and is designed for **INTERMITTENT GENERAL DUTY USE**. This electric winch is similar to most electric motor driven tools and should not be allowed to become overly hot. Stop winch if motor starts to labor or end of motor becomes hot to the touch.

Stop winching and allow motor to cool down.

Minimum electrical requirements are 60 amp alternator and battery with 650 CCA (cold cranking amp) capacity.

This Winch (**FIGURE 1**) is not intended for use in lifting/hoisting applications and the manufacturer does not warrant it to be suitable for such use.

The Freespool Clutch disengages the gearbox to allow the wire rope to be pulled out without using electric power.

A Remote Switch with 15' lead allows a wide variety of mounting options.

Wire Cable Assembly is 55' X 1/4". Usable length is 50 feet.

Wiring harness to battery length is 6 feet.

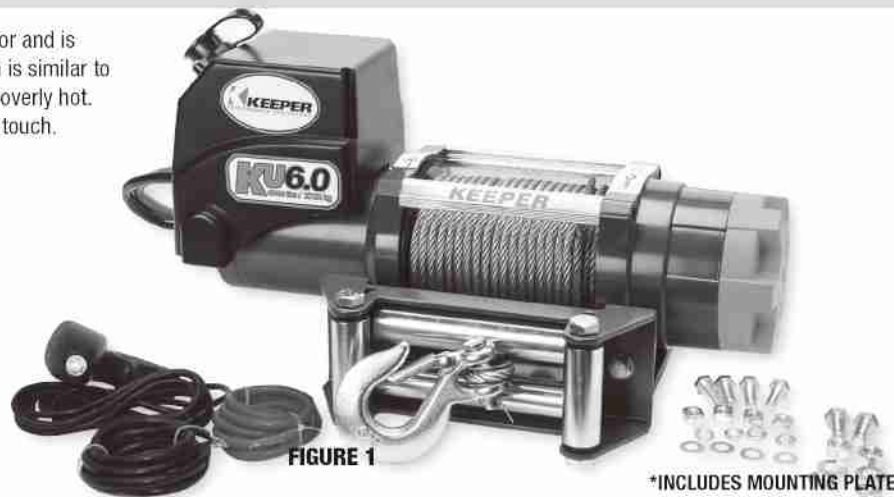


FIGURE 1

*INCLUDES MOUNTING PLATE

Performance

KU 6.0 SPECIFICATIONS

| | |
|------------------------|---|
| Part Number: | KU60032 |
| Rated Line Pull: | 6,000 lbs., 2,722 kg. |
| Motor - Series Wound: | Permanent Magnet 1.9HP 12V DC |
| Control: | Hand Held Remote on 15' lead with built-in High Density Light |
| Switching: | High Duty cycle Sealed Solenoid Pack |
| Gear Train: | High Efficiency 3-Stage Planetary Gear Set |
| Gear Reduction: | 226:1 |
| Clutch (Freespooling): | Cam Activated |
| Brake: | Mechanical Automatic |
| Wire Rope: | 55' (16.8 m) of 1/4" (6.4 mm) Diameter Wire Rope with Looped Thimble and Latched Clevis Hook. |
| Fairleads: | 4-way Roller Fairlead |
| Battery Leads: | 6 Gauge, 72" (1.83 m) |
| Battery: | Minimum 650 CCA |
| Application: | General Utility Load Recovery/Trailer, Truck, Tractor, Equipment |
| Finish: | High-Gloss gray Powder Coat over Undercoating |
| Weight: | 41 lbs. / 18.6 kg. |

THIS PRODUCT IS NOT INTENDED FOR LIFTING / HOISTING

12V DC PERFORMANCE - MODEL KU6.0

| Line Pull Lbs. (kg) | Line Speed FPM (MPM) | Motor Amp Draw |
|---------------------|----------------------|----------------|
| 0 | 18 (5.5) | 29 |
| 1,000 (454) | 15 (4.6) | 59 |
| 3,000 (1,361) | 10 (3.1) | 116 |
| 4,000 (1,814) | 8 (2.4) | 155 |
| 5,000 (2,268) | 5 (1.5) | 211 |
| 6,000 (2,722) | 3.5 (1.1) | 277 |

Rolling Load Capacities (1st Layer)

| SLOPE* | 10% (4.5°) | 20% (9°) | 40% (18°) | 60% (27°) | 100% (45°) |
|--------|------------|----------|-----------|-----------|------------|
| Lbs. | 30,151 | 20,408 | 12,931 | 9,983 | 7,740 |
| Kgs. | 13,676 | 9,257 | 5,865 | 4,528 | 3,511 |

*SLOPE: a one (1') rise over ten (10') feet in length equals a GRADE of 10%. A 10% grade is equal to a 4.5° incline angle. Therefore a 100% grade equals a 45° angle of incline.

General Safety Information

⚠ WARNING ⚠

Your KEEPER® Winch is a very powerful machine. If used unsafely or improperly, serious personal injury and/or property damage can result.

1. **READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING YOUR WINCH.** After installing the Winch, practice using it before the need arises. **NEVER ALLOW PERSONS UNFAMILIAR WITH THIS PRODUCT TO OPERATE IT.**

ALWAYS WEAR SAFETY GLASSES WHILE WORKING WITH MACHINERY.

2. **DO NOT EXCEED RATED CAPACITY OF THE WINCH. DO NOT OVERLOAD! DO NOT ATTEMPT PROLONGED PULLS OF HEAVY LOADS!** Overloads can damage the Winch and/or the wire rope and create unsafe operating conditions. **FOR LOADS OVER 75% OF THE RATED WINCH CAPACITY, WE RECOMMEND THE USE OF A PULLEY BLOCK (not included) TO DOUBLE LINE THE WIRE ROPE (FIGURE 2).** This reduces the load on the Winch, the strain on the wire rope and electrical system.

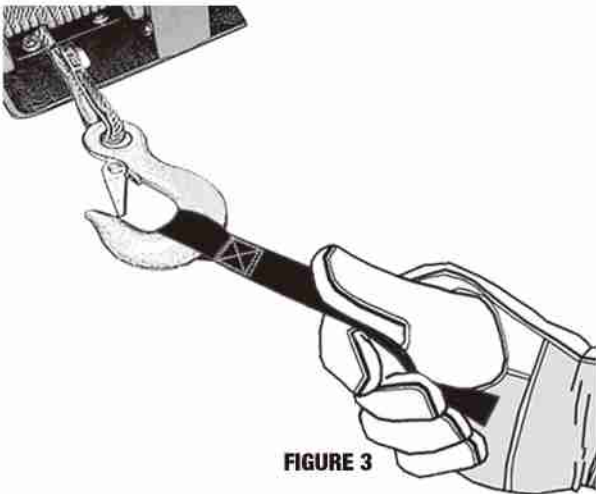


FIGURE 3

10. **NEVER HOOK THE WIRE ROPE BACK ONTO ITSELF.** This will damage the wire rope. Use a winch sling, tree saver or other recommended accessory for this type connection. (FIGURE 4)

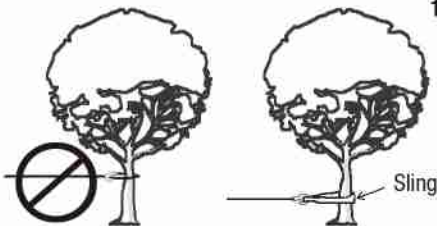


FIGURE 4

11. It is highly recommended to lay a heavy cloth (such as a blanket or tarp) over the wire rope when pulling heavy loads (FIGURE 5). If a wire rope failure should occur, the cloth will act as a damper and help prevent the wire rope from whipping. If mounted on the front of a vehicle then raise the hood for further protection.

FIGURE 5

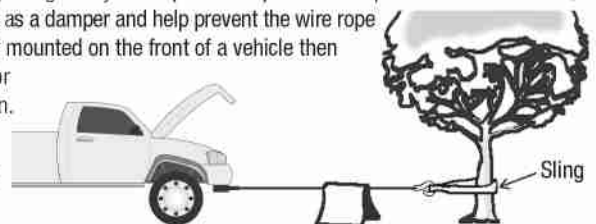
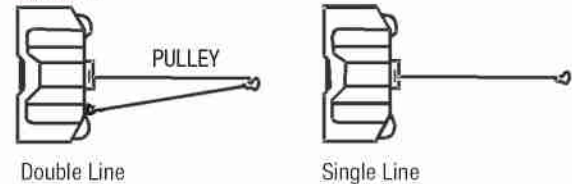


FIGURE 2



Double Line

Single Line

THIS PRODUCT IS NOT INTENDED FOR LIFTING / HOISTING

12. NEVER USE YOUR WINCH FOR LIFTING OR MOVING PEOPLE!

13. YOUR WINCH IS NOT INTENDED FOR OVERHEAD HOISTING OPERATIONS.

14. AVOID CONTINUOUS PULLS FROM EXTREME ANGLES.

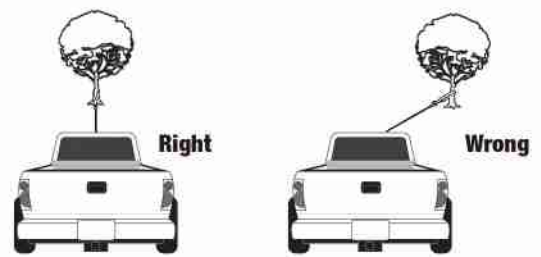
This will cause the wire rope to pile up on one end of the drum (FIGURE 6).

This can jam the wire rope in the Winch, causing damage to the wire rope or Winch.

15. NEVER OBSCURE THE WARNING INSTRUCTION LABELS ON THE WINCH.

16. Always operate Winch with an unobstructed view of the Winching operation.

FIGURE 6



17. Equipment such as hooks, pulley blocks, straps, etc. should be sized for winch capacity and periodically inspected for damage that could reduce their strength.

18. NEVER RELEASE FREESPOOL CLUTCH WHEN THERE IS A LOAD ON THE WINCH.

19. NEVER WORK ON OR AROUND THE WINCH DRUM WHEN WINCH IS UNDER LOAD.

20. DO NOT OPERATE WINCH WHEN UNDER THE INFLUENCE OF ANY DRUGS OR ALCOHOL.

21. ALWAYS DISCONNECT WINCH POWER LEADS TO BATTERY BEFORE WORKING ON OR AROUND THE WINCH DRUM so that Winch cannot be turned on accidentally.

22. When moving a load, slowly take up wire rope slack until it is 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.

23. When using a vehicle mounted Winch to move a load, place the vehicle transmission in neutral (never in Park), set vehicle hand-brake, and chock all wheels.

24. DO NOT USE THE WINCH TO HOLD LOADS IN PLACE. Use other means of securing loads such as KEEPER® brand tie-down straps. For tie-down information go to www.keepercorp.com

25. USE ONLY FACTORY APPROVED SWITCHES, REMOTE CONTROLS AND ACCESSORIES. Use of non-factory approved components may cause injury or property damage and could void your warranty.

26. DO NOT MACHINE OR WELD ANY PART OF THE WINCH. Such alteration may weaken the structural integrity of the Winch and could void your warranty.

27. This is a 12 Volt DC Winch. CONNECT ONLY TO 12 VOLT DC BATTERY. DO NOT CONNECT WINCH TO EITHER 110V OR 220V AC CURRENT AS WINCH WILL BURN OUT OR FATAL SHOCK WILL OCCUR. This will void warranty.

28. Never allow shock loads to be applied to Winch, wire rope or synthetic rope.

29. Use extreme caution when winching a load up and down a ramp or incline.

30. Keep people, other than operator, pets, and property clear of Winching path, front, rear and sides for 100'.

Freespool Operation

Turn clutch handle to the disengage position shown on decal (FIGURE 7). NEVER RELEASE FREE-SPOOL CLUTCH WHEN THERE IS A LOAD ON THE WINCH. DO NOT FORCE THE HANDLE. Release tension on the clutch by winching out some of the wire rope. Release the clutch and pull out the wire rope and secure to anchor or load. Check that there are at least five (5) wraps of wire rope left on the drum. Re-engage the drum by returning the clutch handle to the engaged position. (FIGURE 7)

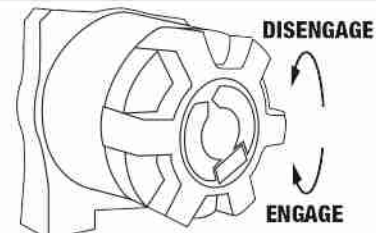


FIGURE 7

CAUTION Clutch must be fully engaged before Winching. NEVER ENGAGE CLUTCH HANDLE WHILE DRUM IS TURNING.

Winch Installation

Correct installation of your Winch is required for proper operation. Installation should be on a flat surface following the bolt pattern shown in FIGURE 9.

Detailed mounting instructions are provided with the mounting plate. Read and follow directions carefully to ensure proper Winch alignment and trouble free operation.

This Winch **MUST** be mounted with the wire rope in the under-wind direction (FIGURE 8). **MUST** use only genuine Keeper Winch replacement Wire Rope.

WARNING

Improper mounting could damage your Winch and void your warranty.

Step 1 Mount the Winch to the mounting kit base plate or to the mount that you have designed. Mount must be a flat surface capable of handling winch loads. Proper mounting bolts are supplied. If using the Roller Fair Lead included, install now to mounting plate. You will need to remove the clevis hook to fit wire rope through rollers.

FIGURE 8

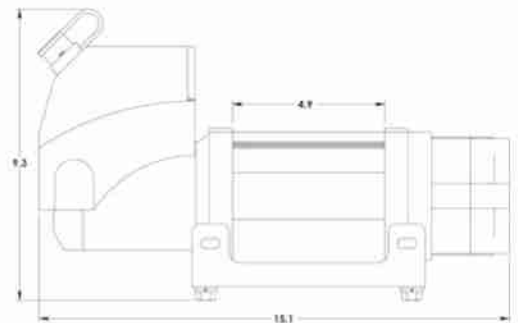
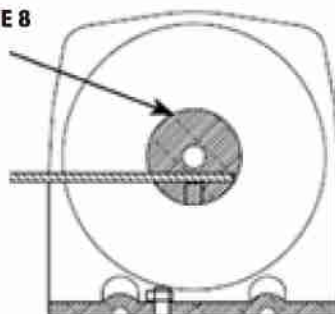
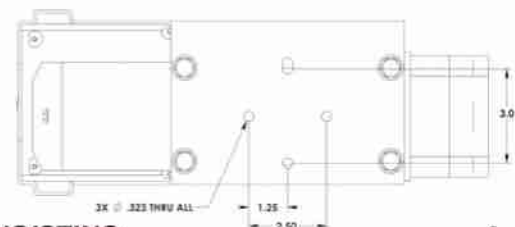


FIGURE 9



THIS PRODUCT IS NOT INTENDED FOR LIFTING / HOISTING

Winch Installation

Correct installation of your Winch is required for proper operation. Installation should be on a flat surface following the bolt pattern shown in **FIGURE 1**.

Read and follow directions carefully to ensure proper Winch alignment and trouble free operation. This Winch **MUST** be mounted with the wire rope in the under-wind direction (**FIGURE 8**). **MUST** use only genuine Keeper Winch replacement Wire Rope.

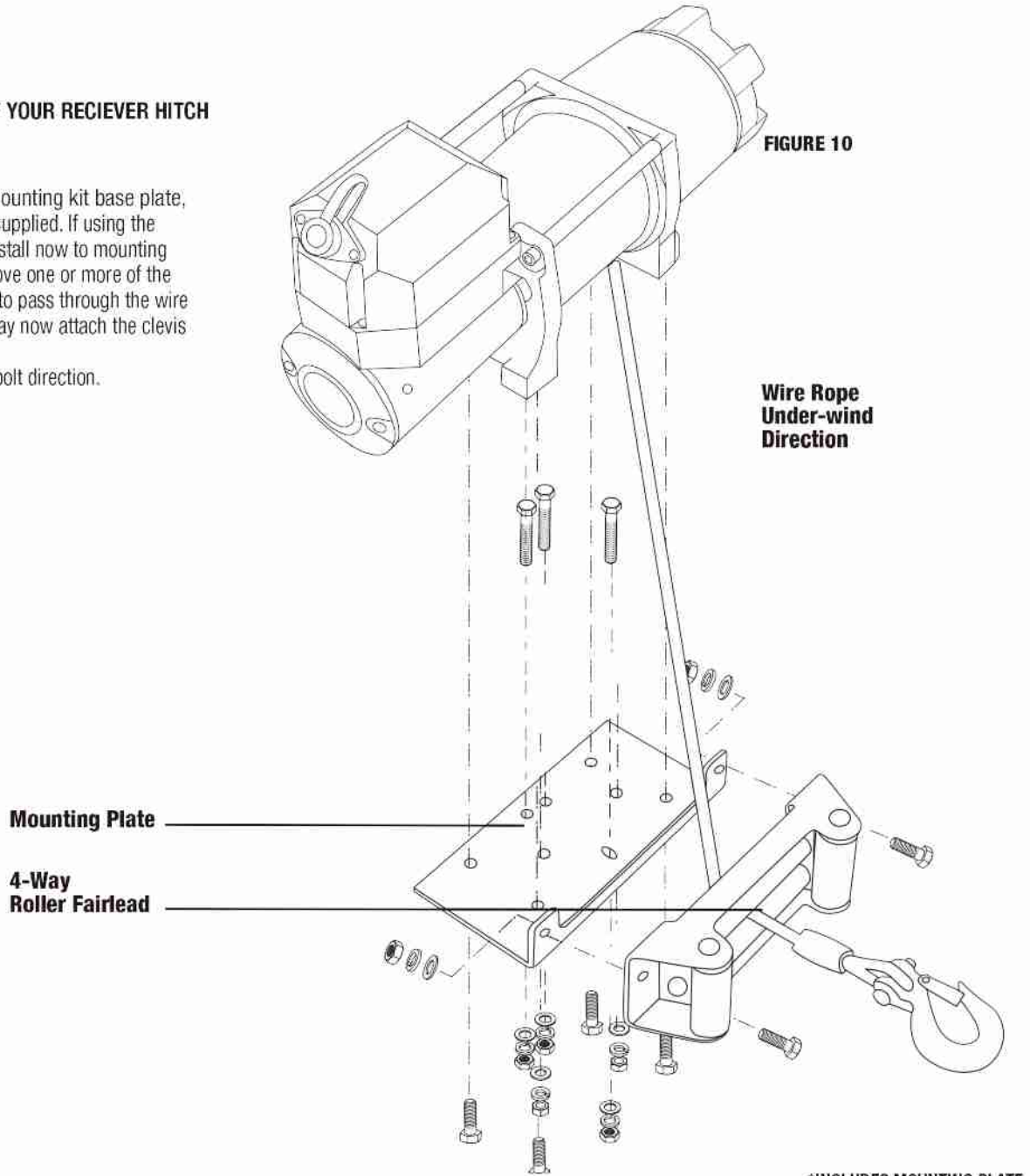
! WARNING **!**

Improper mounting could damage your Winch and void your warranty.

! WARNING **!**

DO NOT EXCEED THE RATING OF YOUR RECEIVER HITCH

Step 1 Mount the Winch to the mounting kit base plate, proper mounting bolts are supplied. If using the Roller Fair Lead included, install now to mounting plate. You may need to remove one or more of the rollers on the roller fairlead to pass through the wire rope. After doing this you may now attach the clevis hook. See (**Figure 10**) for order and bolt direction.



*INCLUDES MOUNTING PLATE

⚠ WARNING ⚠

USE ONLY 3/8" -16 UNC BOLT AND NUTS WITH MINIMUM ISO GRADE 8.8.

⚠ WARNING ⚠

Batteries contain gases, which are flammable and explosive. **WEAR EYE PROTECTION DURING INSTALLATION AND REMOVE ALL METAL JEWELRY.** Do not lean over battery while making connections.

⚠ WARNING ⚠

Ensure that the wiring harness does not interfere or come in contact with any hot or moving engine, suspension, steering, braking or exhaust parts.

MINIMUM ELECTRICAL REQUIREMENTS ARE 60 AMP ALTERNATOR AND BATTERY WITH 650 CCA (COLD CRANKING AMP) CAPACITY.

Step 1 Follow electrical connection diagram (FIGURE 11). Bolt the circuit breaker to the terminal end of the Red 6 GA battery lead that is factory connected to the sealed solenoid switching pack. Now connect the circuit breaker to the positive battery terminal.

Step 2 Connect the other terminal end of the Black 6 GA battery lead to the negative battery terminal.

Step 3 Remove the dust cover on the plug receptacle and insert the plug end of the hand held switch.

The plug end is keyed and will fit easily onto the socket only one way. **DO NOT FORCE.**

Step 4 Turn the freespool clutch handle to the Disengage position (See FIGURE 7). Pull 5 feet of wire rope off the drum. Return the freespool clutch handle back to Engaged position. Activate the Winch cable in and out by momentarily pressing the hand held switch to check drum rotation direction. The switch is labeled "IN" for winching in and "OUT" for winching out. When released the switch will automatically go to the off position. **IF THIS DOES NOT OCCUR THEN TAKE THE PLUG OFF THE RECEPTACLE.**

If the drum rotates in the wrong direction then check the trouble shooting area in this manual or call for assistance 800-533-7372.

Step 5 You are now ready to winch. Practice winching operations by freespooling cable out and winching in under no load. Plan some tests in advance and learn to watch and listen. Recognize the sound of a light steady pull, a heavy pull and sounds caused by load jerking or shifting. You will gain confidence. **ALWAYS WEAR SAFETY GLASSES, LEATHER GLOVES AND USE THE HAND SAVER STRAP (FIGURE 3).**

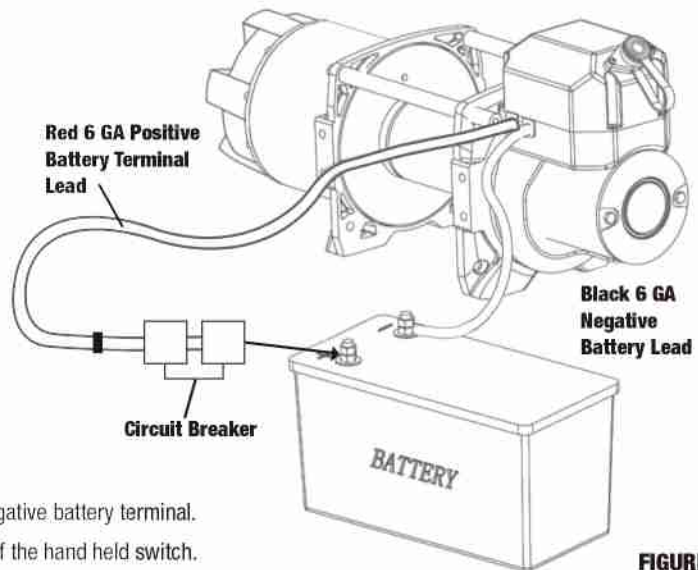


FIGURE 11

Extending the Life of Your Winch

- 1. KEEP A TIGHTLY WOUND WIRE ROPE DRUM.** Keep the wire rope tightly and evenly wound on the drum all the time. Do not allow the wire rope to become loosely wound. A loosely wound drum allows a wire rope under load to work its way down into the layers of wire rope on the drum. When this happens, the wire rope may become wedged within the body of the windings damaging the wire rope. A good practice is to rewind the wire rope under tension after each use. Apply tension using hand saver strap (FIGURE 3) and ALWAYS wear gloves.
- 2. DO NOT ALLOW WINCH MOTOR TO OVERHEAT.** Keep the duration of pulls as short as possible. If the motor becomes uncomfortably hot by touching, stop winching and allow the motor to cool down. **KEEP THE VEHICLE ENGINE RUNNING TO RECHARGE THE BATTERY** during the cooling break.
- 3. USE A PULLEY BLOCK FOR HEAVY LOADS.** To maximize Winch and wire rope life, use a pulley block (not included) to double line heavier loads. (See FIGURE 2) (See www.keeperwinches.com for part number **KWA14512**) Always use a pulley block that is rated twice the capacity of the winch.

⚠ CAUTION ⚠ If the winch motor stalls, do not continue to apply power.

4. The pull required to start a load moving is often much greater than the pull required to keep it moving. **AVOID FREQUENT STOPS AND STARTS DURING THE PULL.**

5. PREVENT KINKS IN WIRE ROPE BEFORE THEY OCCUR. (FIGURE 12)

- This is the start of a kink. Wire rope should be straightened.
- Wire rope was pulled and loop has tightened into a kink. Wire rope is now permanently damaged and **MUST** be replaced.
- Result of kinking is that each strand pulls a different amount causing strands under greatest tension to break and reduce load capacity of wire rope. The wire rope **MUST** be replaced. Use only genuine Keeper Winch replacement parts. **Contact keeperwinches@hamptonproducts.com to order.**

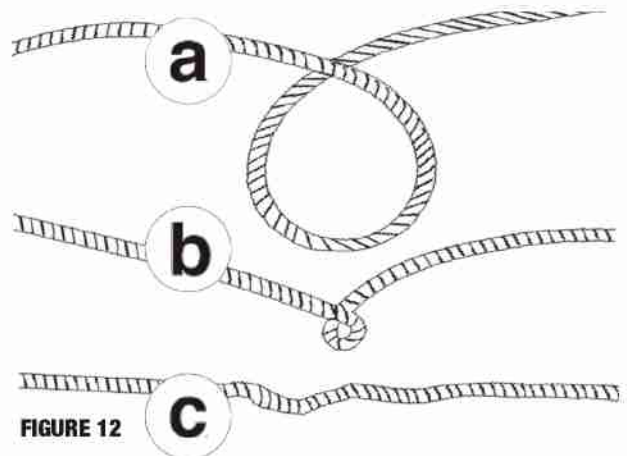


FIGURE 12

Replacing The Wire Rope

⚠ WARNING ⚠

Never Substitute a heavier or lighter wire rope. Never use rope made of any other materials other than wire or approved synthetic winch rope.
Use only Galvanized Wire Rope.

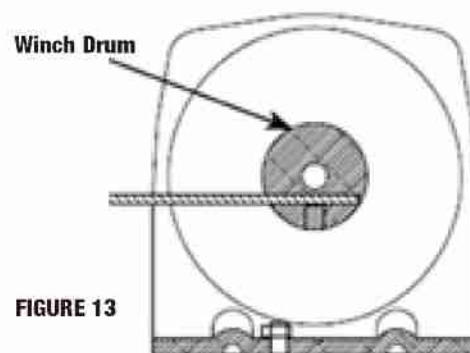


FIGURE 13

Maintenance & Repair

⚠ WARNING ⚠

Before each use, check mounting bolts for tightness, inspect cable for damage. Inspect remote control assembly for any damage. Periodically use a clean, dry towel to remove dirt and debris from winch housing.

Lubrication: The gear box is permanently lubricated. Do not attempt to disassemble the gear box. This will void your warranty.

Troubleshooting

If a problem arises, call Keeper® Winch Customer Service at 800-533-7372 or keeperwinches@hamptonproducts.com.

| Symptom | Possible Causes | Corrective Action |
|---|---|---|
| Motor will not operate or runs in one direction only | <ol style="list-style-type: none"> 1. Broken wires or bad battery connection 2. Switch inoperative 3. Damaged winch 4. Damaged solenoid 5. Circuit breaker malfunction | <ol style="list-style-type: none"> 1. Check for poor connection(s) and that all wiring is tight and clean 2. Check that switch wires are connected properly to the solenoid 3. Replace or repair 4. Replace solenoid 5. Replace circuit breaker |
| Motor runs extremely hot | <ol style="list-style-type: none"> 1. Long period of operation 2. Damaged during operation | <ol style="list-style-type: none"> 1. Allow to cool 2. Replace or repair |
| Motor runs but with insufficient power or line speed | <ol style="list-style-type: none"> 1. Weak/Low battery 2. Battery to Winch wire too long 3. Poor battery connection 4. Poor ground 5. Damaged motor | <ol style="list-style-type: none"> 1. Recharge or replace battery. Check charging system. 2. Use only supplied wires. If increase in length is needed, drop down wire size to 2 or 3 AWG. 3. Check battery terminals for corrosion. Clean as required. 4. Check and clean connections 5. Replace or repair |
| Motor runs but drum does not turn | Clutch not engaged | Engage clutch |
| Winch runs backwards | <ol style="list-style-type: none"> 1. Battery wires reversed 2. Switch wires reversed 3. Switch installed incorrectly | <ol style="list-style-type: none"> 1. Recheck wiring 2. Recheck wiring 3. Check switch installation |

For replacement parts contact KEEPER® Winch Customer Service at 800-533-7372 or email us at keeperwinches@hamptonproducts.com

LIMITED LIFETIME WARRANTY: Hampton Products International Corporation Warrants product according to provisions below: Mechanical components are warranted for lifetime of the winch to be free from defects of material and workmanship. Electrical components are warranted for 1 year to be free from defects of material or workmanship. If a defect in material or workmanship occurs, call 800-533-7372 for instructions on how to have the Product repaired or replaced. This Warranty applies only to the original Purchaser/Consumer of the Products from the date of purchase of the Product. Defective Products returned become property of the manufacturer. Limitations on the Warranty: The following limitations apply to the Warranty: (a) The Warranty applies only to Products which are defective in material or workmanship. This Warranty does not cover normal wear and tear. The Warranty does not cover service or labor charges which are incurred in removing or replacing any Product. (b) The Warranty does not cover the winch finish or wire rope. Accordingly, the manufacturer will not replace, repair or refinish any Products if the finish on the Product is worn in any manner. (c) The Warranty does not extend to Products which are damaged or which fail as a result of the Product being abused, neglected, or misused in any manner, or as a result of any accident, or which are misapplied, overloaded, improperly installed, or altered in any manner by anyone other than the manufacturer its agents or representatives.

Obligations of Purchaser/Consumer. To obtain the benefits of the Warranty, The Purchaser/Consumer must return the defective Product(s), freight prepaid together with proof of purchase within the warranty period from the date of purchase to Hampton Products or an authorized service center.

Legal Rights and Limitations of Purchaser/Consumer. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU ALSO MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON ANY PRODUCT SHALL BE LIMITED TO TERMS OF WARRANTY FROM THE DATE OF PURCHASE AT RETAIL TO THE ORIGINAL PURCHASER. SOME STATES DO NOT ALLOW LIMITATIONS

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322 Main St.
Willimantic, CT 06226
800-533-7372
www.keeperwinches.com or keeperwinches@hamptonproducts.com
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