REALTRUCK

Traction Recovery Winch

Part # XG-W10000KB & XG-W13000KB

Components and Hardware:

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12. 

Components and Hardware:

1. Winch ..... (1)
2. Control Box ..... (1)
3. Wireless Controller ..... (1)
4. Fairlead ..... (1)
5. Fairlead Cover ..... (1)
6. LED Smart Bar ..... (1)
7. Hook ..... (1)
8. Fairlead Puck and Pin ..... (1)
9. Control Box Winch Brackets ..... (2)
10. Control Box Tab Brackets ..... (4)
11. M10 Bolt ..... (6)
12. M10 Square Nut ..... (6)

Tools for Installation:

- 10mm Socket and Wrench
- 15mm Socket
- 17mm Socket and Wrench
- #4 Allen Wrench
- #8 Allen Wrench
- Torque Wrench
- T30 Torx Bit

Components and Hardware:

13. 

14. 

15. 

16. 

16. 

17. 

Components and Hardware:

13. M10 Flat Washer ..... (2)
14. M10 Lock Washer ..... (6)
15. M6 Cap Head Screw ..... (8)
16. M10 Cap Head Screw ..... (2)
17. Socket Connector Cable ..... (1)
18. Winch Ground Cable ..... (1)

Traction Recovery Winch

Every winching situation has the potential for personal injury. In order to minimize that risk, it is important to read this guide and The Basic Guide to Winching Techniques carefully. Please familiarize yourself with the operation of your winch before using it and be constantly safety oriented. In this guide we provide important safety information and instructions on how to install your winch. Please read the Basic Guide to Winching Techniques for information on how to properly use your winch and proper rigging techniques.

SAFETY PRECAUTIONS

Observe safety precautions for personal safety and the safety of others. Improper equipment operation may result in injury and equipment damage.

Read the following carefully before attempting to operate your winch and keep the instructions for future reference

1. Dress Properly: Don't wear loose clothing or jewelry. They can be caught in moving parts. Wear leather gloves when handling winch cable. Do not handle cable with bare hands as broken wires can cause injuries. Non-skid footwear-is recommended. Wear protective hair covering to contain long hair

2. Keep a Safe Distance: Ensure that all persons stand well clear of winch cable and load during winch operation. 1.5 times the cable length is recommended. If a cable pulls loose or breaks under load it can lash back and cause serious personal injury or death. Don't step over the cable. All visitors and onlookers should be kept away from the work area. Keep proper footing and balance at all times.

3. Don't Abuse the Cord: Never carry your winch by the cord or yank it to disconnect it from the receptacle. Keep cord from heat, oil and sharp edges.

4. Don't Overwork the winch: If the motor becomes uncomfortably hot to touch, stop and let it cool for a few minutes. Don't maintain power to the winch if the motor stalls. Don't exceed maximum line pull ratings shown in tables. Shock loads must not exceed these ratings.

5. Avoid Unintentional Starting: Winch clutch should be disengaged when not in use and fully engaged when in use.

6. Check Damaged Parts: Before using, you should check your winch carefully. Any part that is damaged should be properly repaired or replaced by an authorized service center.

7. Winch Repair: Do not attempt to repair your winch without consulting with RealTruck. Doing so at your own discretion may cause considerable danger to the user.

8. Re-spool the Cable: Leather gloves must be worn while re-spooling. To re-spool correctly, it is necessary to keep a slight load on the cable. Hold the cable with one hand and the remote control switch with the other. Start as far back and in the center as you can. Walk up keeping load on the cable as the winch is powered in. Do not allow the cable to slip through your hand and do not approach the winch too closely. Turn off the winch and repeat the procedure until all the cable except 1m is in. Disconnect the remote control switch and finish spooling in cable by rotating the drum by hand with clutch disengaged. On hidden winches, spool in cable under power but keep hands clear.

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WINCH OPERATION WARNINGS

Read the following carefully before attempting to operate your winch and keep the instructions for future reference.

1. The uneven spooling of cable, while pulling a load, is not a problem unless there is a cable pile up on one end of the drum. If this happens reverse the winch to relieve the load and move your anchor point further to the center of the vehicle After the job is done, you can un-spool and rewind for a neat lay of the cable.

2. Store the remote control switch inside your vehicle where it will not become damaged, inspecting it before you plug it in.

3. Observe your winch while winching, while standing at a safe distance. Stop the winching process every 3 to 4 feet to assure the cable is not pulling up in one corner. Jamming the cable can break your winch.

4. Do not attach tow hooks to winch mounting apparatus. They must be attached to vehicle frame.

5. The use of a snatch block will aid recovery operations by providing a doubling of the winch capacity and a halving of the winching speed, while maintaining a direct line pull to the center of the rollers. When double loading during stationary winching, the winch hook should be attached to the chassis of the vehicle.

6. Ensure rated “D” or bow shackles are used in conjunction with an approved tree trunk protector to provide a safe anchor point.

7. When extending winch cable, ensure that at least five wraps of cable remain on drum at all times. Failure to do this could result in the cable parting from the drum under load. Serious personal injury or property damage may result.

8. All winches are provided with a Red Cable marking to identify that the minimum of 5 cable wraps remain on the Winch drum. When this mark appears at the rollers. No recovery should be attempted beyond this marking.

9. Since the greatest pulling power is achieved on the innermost layer of your winch, it is desire-able to pull off as much line as you can for heavy pulls (you must leave at least 5 wraps minimum on the drum - red cable). If this is not practical use a snatch block and double line arrangement.

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WINCH OPERATION WARNINGS

10. Draping a heavy blanket or similar object over the extended winch cable is recommended as it will dampen any back lash should failure occur.

11. Neat, tight spooling avoids cable binding which is caused when a load is applied and the cable is pinched between the others. If this happens, alternatively power the winch in and out. Do not attempt to free a bound cable under load by hand.

12. Apply blocks to wheels when vehicles are on an incline.

Battery

Be sure that the battery is in good condition. Avoid contact with battery acid or other contaminants. Always wear eye protection when working around a battery.
Have the engine running when using the winch to avoid damaging the battery.

Winch Cable

- Be sure that the cable is in good condition and is attached properly.
- Do not use the winch if cable is frayed.
- Do not move the vehicle to pull a load.
- Do not replace the cable with a cable of lesser strength.
- The life of the cable is directly related to the use and care it receives.
- Following its first and subsequent uses, a cable must be wound on to the drum under a load of at least 500lbs (230kg) or the outer wraps will draw into the inner wraps and severely damage the cable during winching. The first winch use should be a familiarization run while in a relaxed, non-recovery situation. Spool out the cable until the red cable mark appears (about five wraps on the drum). Rewind the cable on to the drum under a load of 500lbs (230kg) or more. This will slightly tension and stretch the new cable and create a tight cable wrap around the drum. Failure to do so may result in cable damage and reduced cable life.
- When the cable is replaced, be sure to apply Loc-tite or an equivalent compound to the cable clamp thread.
- Tighten the clamp screw but do not over tighten. The Loc-tite will prevent loosening of the screw in hazardous conditions. Loc-tite 7471 Primer and 222 Thread-locker are recommended.

Do not attempt to exceed the pulling limits of this winch.

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DO NOT drive your vehicle to assist the winch in any way. Vehicle movement in combination with winch operation may overload the cable and/or the winch and cause damaging shock loads.
Shock loads when winching are dangerous! A shock load occurs when an increased force is suddenly applied to the cable. A vehicle rolling back on a slack cable may induce a damaging shock load.
The winches shown in this manual are solely for vehicle and boat mounted non-industrial applications.
Do not use winch in hoisting applications due to required hoist safety factors and features.
Do not use the winch to lift, support or otherwise transport personnel.

WINCH OPERATION

SUGGESTION
The best way to get acquainted with how your winch operates is to make a few test runs before you actually need to use it. Plan your test in advance. Remember you can hear your winch as well as you can see it operate. Get to recognize the sound of a light steady pull, a heavy pull, and sounds caused by load jerking or shifting. Soon you will gain confidence in operating your winch and its use will become second nature to you.

OPERATING
Ensure the vehicle is secure by applying the parking brake or chocking the wheels .

Pull out the winch cable the desired length and connect to an anchor point. Be sure to leave 5 full wraps of cable on the winch drum.

Recheck all cable rigging before proceeding.

Plug in the winch hand control. It is recommended that the winching operation takes place from the driver's position to ensure safe operation.

To commence winching operation; start vehicle engine, select neutral in transmission and maintain engine speed at idle.

Operate the remote control switch to IN or OUT until the vehicle has been retrieved. Regularly check the winch to ensure cable is winding onto the drum evenly.

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NOTES

Never winch with your vehicle in gear or in park, which would damage your vehicle's transmission.
Never wrap the cable around the object and hook onto the cable itself. This can cause damage to the object being pulled, and kink or fray the cable and result in cable failure.
Keep hands, clothing, hair and jewelry clear of the drum area and cable when winching.

NEVER use the winch if the cable is frayed, kinked or damaged. Replace cable immediately.
Never allow anyone to stand near the cable or in line with the cable behind the winch while it is under power.
If the cable should slip or break, it can suddenly whip back towards the winch, causing a hazard for anyone in the area.
Always stand well to the side while winding.
Don't leave the switch plugged in when winch is not in use.

CHECK THE WINCH CAREFULLY AND THOROUGHLY BEFORE OPERATING!

MAINTENANCE

It is highly recommended that the winch be used regularly (once a month). Simply power the cable out 15m, free spool 5m and then power back in. This will keep all components in good working condition so that the winch can be relied on when needed. Contact RealTruck for technical assistance.

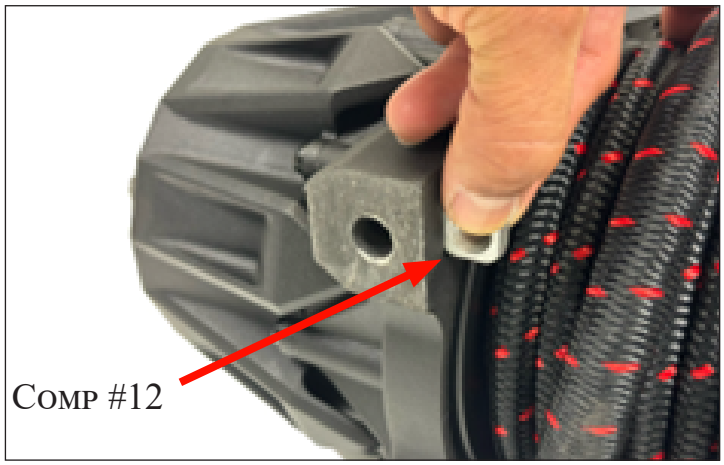
ELECTRICAL CONNECTIONS

For normal self-recovery work, your existing electrical system is adequate. A fully charged battery and proper connections are essential. Run the vehicle engine during winching operations to keep battery charged.

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Winch Mounting

1. Mount the Fairlead (#4) to the Mounting Frame (not included) using the supplied M10 Bolts (#11), M10 Flat Washer (#13), M10 Lock Washer (#14), and M10 Square Nuts (#12). The Winch (#1) MUST be properly secured to a winch mount bumper or an approved winch mount plate with the included M10 Bolts (#11), M10 Flat Washer (#13), M10 Lock Washer (#14), and M10 Square Nuts (#12) (qty 4/each). There are machined pockets at each of the four inside base corners that fits a M10 Square Nut (#12). Place a M10 Square Nut (#12) into each pocket and center the winch over the mounting base holes.
Tip: A touch of bearing grease can hold the 4 M10 Square Nut (#12) in place prior to fastening the M10 Bolts (#11). In some rare mounting situations drilling for bolt holes may be required. Using a 15mm socket, thread the 4 M10 Bolts (#11) and M10 Flat Washer (#13) through the bottom of the winch mount plate or bumper and into the M10 Lock Washer (#14) and M10 Square Nut (#12). Use a torque wrench and 10mm socket to torque each mounting bolt to 50ft-lbs.



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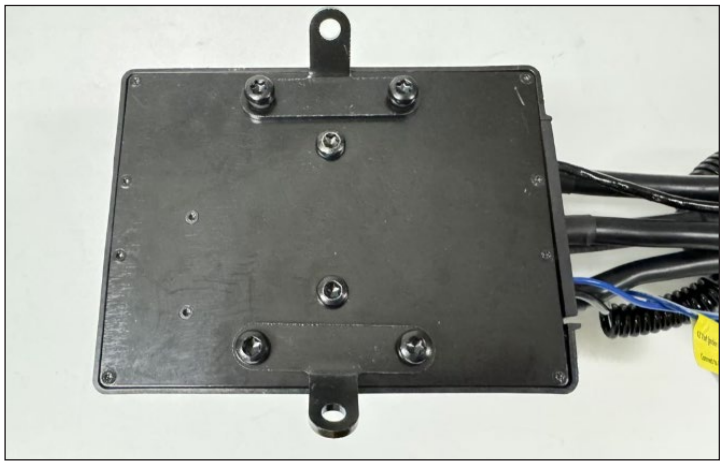
2. Locate the 4 Control Box Tab Brackets (#10), then attach them to the back of the Control Box (#2) using the M6 Cap Head Screws (#15). See 1st image.



If you desire to have the control box mounted on the winch, mount the two Control Box Winch Brackets (#9) to the control box using M6 Cap Head Screws (#15). See 2nd image.

Remove the front and rear winch tie rods and fasten the box to the tie rods using M6 Cap Head Screws (#15). Reinstall the tie rods once complete using a T30 Torx bit.

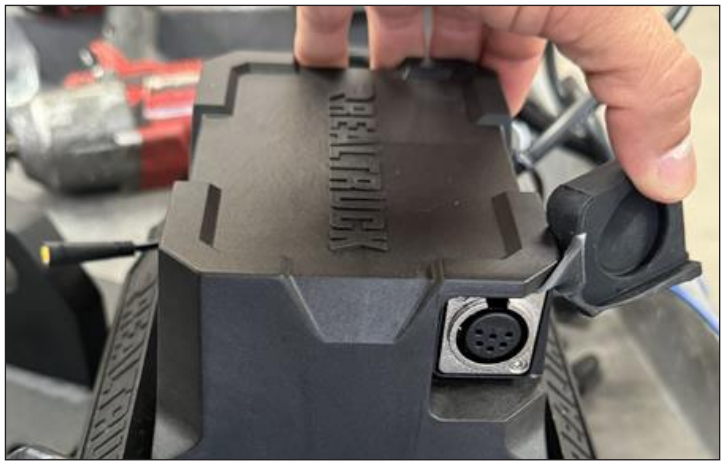




You may install the Control Box (#2) to your desired location but depending on where you install it, drilling and hardware might be necessary.

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3. The Socket Connector Cable (#17) is used to charge the Wireless Controller (#3). The port is located on the Control Box (#2).



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4. Install the Fairlead (#4) to your bumper using two M10 Cap Head Screws (#16), M10 Flat Washers (#13), M10 Lock Washers (#14) and M10 Square Nuts (#12). Once mounted, feed the eyelet from the winch line through the Fairlead (#4). Use 17mm Wrench and #8 Allen Wrench.



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5. With the eyelet fed through, install the Fairlead Puck and Pin (#8). You can retract it once the Winch (#1) is powered.



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6. Use the Fairlead Cover (#5) to cover the puck when not in use.



7. When in use, attach the Hook (#7) to the winch eyelet. Remove the spring pin and hook pin to attach it to the line.



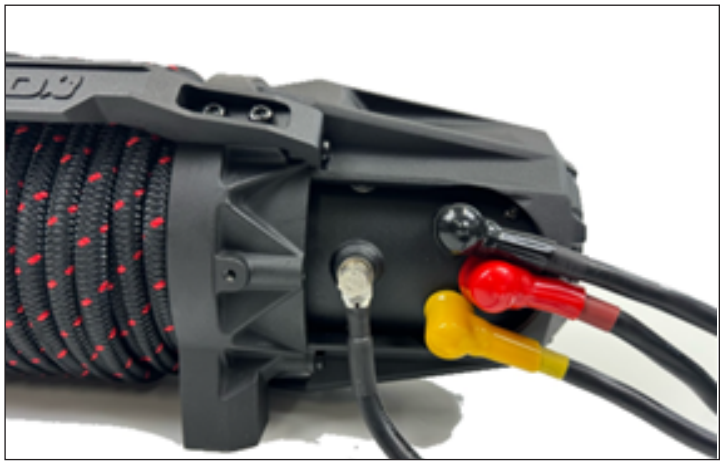
Powering The Winch

8. Locate the 3 threaded studs and the 1 threaded hole on the Winch (#1), then remove the hardware.

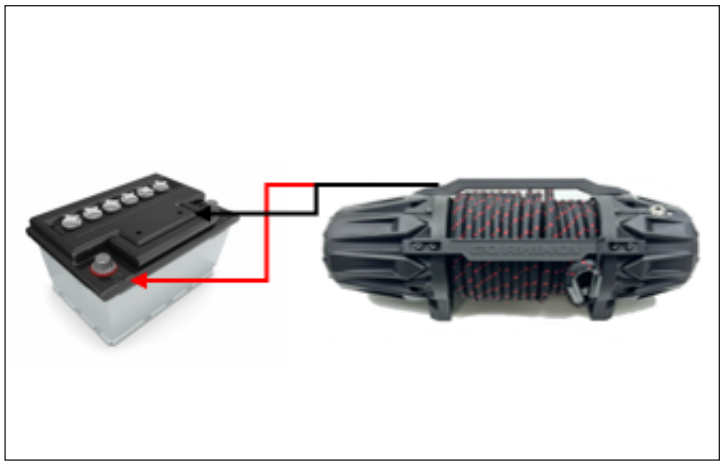


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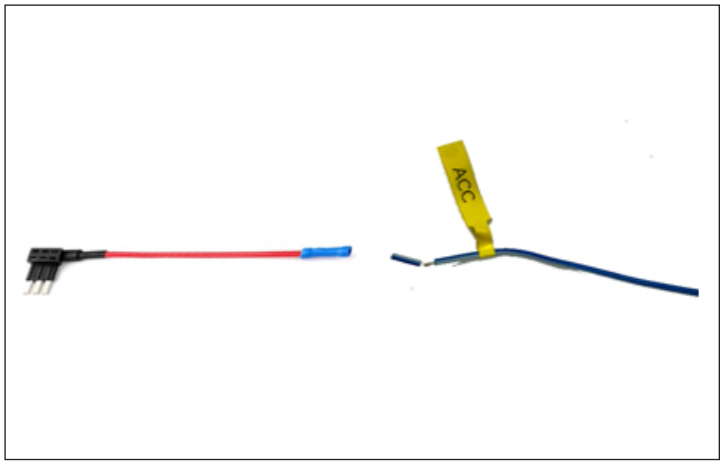
9. Match each terminal to the correct color of the threaded studs. Locate the supplied Winch Ground Cable (#18) and install it on the threaded hole.



10. Disconnect the vehicle battery leads. Route the long red positive cable and black ground cale to the battery. When routing the cable, avoid any sharp parts or corners on the vehicle. Connect each cable to the correct location on the battery.



11. Locate the blue accessory wire on the control box harness and route it to the vehicle's fuse box. Use the appropriate fuse tap (not supplied) and tap into any accessory fuse or full time fuse.



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12. Depending on your bumper, find a suitable location for the LED Smart Bar (#6) and connect the plug from the control box harness to it.

NOTE: Some drilling may be required to secure the LED Smart Bar (#6) to the surface of your bumper.



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Winching Tips and Use of a Snatch Block

1. Use tow hooks, recovery eyes or a clevis mount for attachment of a tow strap or winch synthetic rope. Warning: Do not use a ball and/or ball mount as an anchor point for tow strap or winch synthetic rope. Severe personal injury or death could occur.

2. Always heed all winch manufacturer's recommendations, cautions, and warnings.

3. Attach return synthetic rope to tow hook or recovery eye when using a snatch block. Always use a clevis to secure snatch block to strap, or severe damage could occur to persons and vehicle.
CAUTION: Do not attach return synthetic rope to winch mount. This may overload winch mount and/or front receiver.

Rating

For maximum line pull rating, winch cable direction must not exceed:
1. 15 degree angle up or down from horizontal

2. 45 degree angle left or right from straight ahead (Caution: Exceeding the maximum line pull rating may overload winch, winch mount, and/or front mounted receiver.

Safety Tips

1. Store the remote control cord in a safe place when not in use to prevent use by children or other unauthorized persons who could injure themselves or others or damage the controls.

2. Do not operate winch under the influence of drugs, alcohol, or medication.

3. Isolate winch before putting hands in or around the roller/hawse fairlead or drum.

4. **DO NOT OVERLOAD YOUR WINCH**. Do not maintain power to the winch if the drum stops. Overloads can damage the vehicle, winch or winch steel synthetic rope and create unstable operating conditions.

5. It is recommended to lay a dampener over the steel synthetic rope about halfway along to the hook attachment. If a synthetic rope failure should occur, the weight of the dampener will help prevent the broken synthetic rope from whipping. Remember to move the dampener as winching proceeds, but halt winching when doing so. Partially raising the hood of the vehicle will also give a measure of protection to its occupants from broken steel cable/synthetic rope, consistent with sufficient forward visibility for
the operator.

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Use of a Nylon Sling and Shackle

1. Always attempt to get the synthetic rope as straight as possible to the direction of the vehicle. It is acceptable to start a pull at an angle if it is obvious that the vehicle will turn towards the hook anchoring point. Turning the steering wheel will assist the process. It is recommended that the driver is in the vehicle.

2. Make sure hand brake and foot brake are free and that the transmission is in neutral.

3. When the driver's attempt to regain vehicle traction is successful, he or she should be careful not to overrun the cable and risk the possibility of it being trapped under the vehicle.

4. **DO NOT** move your vehicle in reverse to assist the winch. The combination of the winch and vehicle pulling together could overload the cable and winch itself.

5. **DO NOT** connect synthetic rope or hook back to winch mount.

Use of a Pulley Block or Snatch Block

1. Vehicle self recovery using the pulley block attached to the anchor point for direct pull. In this instance the vehicle becomes the "load" and
the actual pulling power on the vehicle will be double at half winch synthetic rope speed. Do not connect synthetic rope or hook back to winch mount.

2. Direct pull on load using the winch vehicles as the anchor with pulley block attached to the load. The most important aid to successful winching is the pulley block, which can be used to increase the pulling power of the winch of for indirect pulls. Pulley blocks can be used in two modes. First mode is attached to the load and second is secured to an anchor point.

3. Indirect pull necessitated by obstructions or soft ground. Attach pulley block to load using a suitable anchor point. **NOTE:** The angled direction taken by the load and subsequent angle of synthetic rope feed back on the winch drum. There may be unavoidable circumstances requiring this mode, though in general it is not recommended unless applied in stages by moving the anchor point or vehicle to avoid the sharp angled rewind on the winch drum. The actual load pulling power and synthetic rope speed will depreciate with any increased angle between the synthetic ropes. The anchor point, when used must be secure, using a tree, another vehicle or any firm structure to which a pulley block can be used to your advantage.

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Use of a Nylon Sling and Shackle

1. The safe working load of the nylon sling is based on the use of both eye ends. Do not use the cable or hook to connect directly to the nylon sling.

2. A shackle should always be used when attaching winch hooks to nylon slings. **NOTE:** The shackle must pass through both eyes of the sling.

WINCH MAINTENANCE

1. All moving parts within the electric winch have been lubricated using high temperature lithium grease at the factory. No further internal lubrication is required for the life of the winch.

2. Electrical connections may corrode over a period of time due to environmental changes. This may result in reduced performance of the winch or even possible electrical shorting. Hence, always clean the electrical connections before and after using the winch.

3. After every use of the winch, inspect the synthetic rope for damages such as kinks, broken strands etc. When damaged, replace the cable immediately.

WARRANTY

See RealTruck.com for warranty info.