

**SUBMERSIBLE  
MUTE WINCH**

# OFF ROAD VEHICLE WINCH



Before using the winch, read the product manual and safety operation specifications carefully. Improper operation may cause serious injury

Applicable model: 9500 LBS /12000 LBS /13500 LBS /17500 LBS

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# PLAYING IT SAFE



**WARNING:** For personal safety and the safety of others please read and fully understand these safety instructions before operating your winch. Failure to do so could cause personal injury or damage to equipment. After installing the winch, practise using your winch before the need arises.

## CLOTHING

- Don't wear loose fitting clothing or jewellery as they can get caught in moving parts
- Always wear leather gloves when handling the winch cable. Do not handle with bare hands as broken strands can cause injury.
- Non-skid footwear should be worn. Open toed footwear is not recommended.
- Protective hair coverings should be worn to protect long hair.

## KEEP A SAFE DISTANCE

- Always keep hands clear of rope or cable, hook loop, hook and fairlead opening during installation, operation or when spooling in or out.
- Always use extreme caution when handling hook, rope or cable during spooling operation.
- Always use hook strap supplied whenever spooling wire rope in or out to avoid injury to hands or fingers.
- Ensure that all persons stand well clear of winch cable and load during winch operation. 1.5 times the cable length is recommended as a safe distance. If a cable pulls loose or breaks under load it can lash back and cause serious injury or death.
- Always use your winch blanket to prevent cable lashing back in the event of it pulling loose or breaking under load.
- Never step over or stand on cable.
- All onlookers should be kept well away from work area.

## OPERATION

- Never allow persons unfamiliar with this product to operate it.
- Your winch is not designed or intended to be used for over head lifting or hoisting operations.
- Never use your winch for lifting or moving people.
- Never use your winch while under the influence of alcohol or drugs
- Never allow your winch to be operated by any person under the age of 16.

## CONDITION

- Inspect wire cable or rope and winch components frequently for damage. A flattened, frayed or kinked cable could fail under load and needs to be replaced immediately.
- Periodically check winch mounting bolts to ensure they are tight.

# GETTING STARTED

Thank you for purchasing your 4x4 recovery winch.

Your winch will give you many years of reliable service if you follow the instructions covered in this hand book. Before using your winch it is important to familiarise yourself with your winch and how it works, and pay particular attention to the safety information.

- Your winch needs to be mounted securely to winch bar or winch mount designed and tested for your vehicle.
- Your winch needs to be connected to a battery of at least 650cca.

The winch has a clutch handle mounted on the gearbox that is used to engage and disengage the cable drum from the gearbox. The handle can only be moved when there is no load on the cable. Because the clutch gear has straight cut teeth sometimes the drum might need to be rotated slightly to align the teeth on the gears before the handle can be moved.

### **Disengage**

With the clutch handle in the disengage position the cable drum will free spool enabling the cable to be pulled out by hand.

### **Engage**

With the clutch handle in the engage position the cable drum is connected to the gearbox. This allows the cable to be powered in and out using the winch motor.



**NOTE:** When pulling the cable out it is preferable to free spool the cable rather than powering the cable as powering the cable out can build up heat in the internal brake of the winch unnecessarily.

***Your winch can either be operated using the plug in hand controller or the cordless function.***

To use the plug in option, connect the cord to the hand controller and plug the controller into the socket on top of the control box. Push the button on the handle.

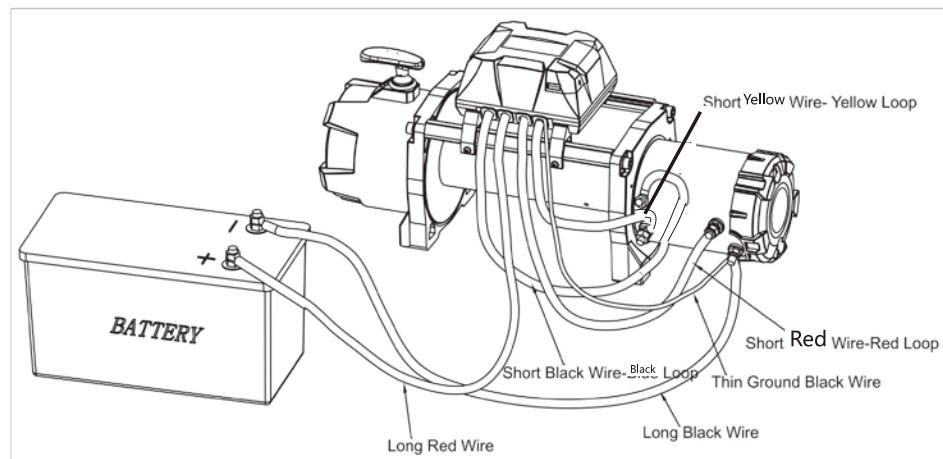
The winch can now be powered in and out using the direction switch.

### **Brake**

Your winch has a one directional cam lock brake inside the cable drum. The purpose of the brake is to prevent the vehicle rolling backwards when winching up a hill and the power is released from the motor. For this reason the cable can only be wound onto the drum in one direction. If the cable is wound onto the drum in the wrong direction the brake will not work, and will engage whilst winching the cable in which will over heat the brake and possibly the motor. This will not be covered by warranty.

Before winching please refer to the safety section on Page 4 of this hand book.

### **Wiring Connections**



## Pre-Tensioning

It is very important to pre tension the cable before the first time the winch is used. Failure to do this will dramatically shorten the life of the cable and will not be covered by warranty.

To do this the following procedure must be followed:

1. Find a fairly level or slightly inclined surface that has enough room to spool the cable off the drum down to the last 5 wraps of the drum.
2. Turn the clutch handle on the winch gearbox to the disengage position and pull the cable out to the last 5 wraps on the drum. Never unwind the cable to less than 5 wraps on the drum. Although the end of the cable is attached to the drum with a lug, it is not designed to hold any load and will tear off the end of the cable or may damage the cable lug if less than 5 wraps remain on the drum. If this happens it will not be covered by warranty.
3. Turn the clutch handle on the winch gearbox to the engaged position.
4. Securely attach the hook end of the cable to a suitable anchor point and slowly back the vehicle away until the slack is taken out of the cable.

To pretension the cable properly it will need to be spooled back onto the drum evenly with a load of at least 450 kg (1000 lbs). This load can be applied by lightly engaging the hand brake or having a second person lightly applying the foot brake while re-spooling the cable.

5. Start the engine of the vehicle. Using your hand controller, start to re-spool the cable back onto the drum so that it spools evenly with no gaps between each wind. If gaps occur unwind the cable slightly and then re-spool it. Note: Extreme care must be taken not to get your hand caught in the fairlead or any moving parts of the winch.
6. Once the cable has spooled to within 2 metres of the hook, stop winching and apply the hand brake of the vehicle firmly. Reverse the winch slightly to release the load from the cable.
7. Unhook the cable from its anchor. While holding onto the hook with the supplied hook strap spool the remainder of the cable in. The hook can attached to a recovery point on the vehicle or carefully winched in against the fairlead taking care not to over tension it or this could cause damage to the vehicle or bull bar.



**WARNING:** Never operate winch with less than 5 wraps on the drum. Cable could come adrift from the drum as the attaching lug is not designed to hold any load

Always use supplied hook strap when spooling cable to prevent hands from getting caught in fairlead or other moving parts.

During heavy winching heat will build up in the electric motor. Periodically stop winching and touch the motor with your bare hand, if it is uncomfortably hot to touch stop winching for long enough for it to cool down. Failure to do this could cause damage the motor, Which will not be covered by warranty.

## ***Spooling Out***

The quickest and easiest way spool the cable out from the drum is to free spool it with the clutch handle in the disengaged position. To do this power the winch out slightly to take the tension off the cable and rotate the clutch handle to the disengage position, and pull the cable out to the chosen anchor point. The other option is to power the cable out which is a much slower process and will heat up the brake in the cable drum, this is not recommended.



Note: Always leave at least 5 wraps of cable on the drum. Although the end of the cable is attached to the drum with a lug, it is not designed to hold any load and will tear off the end of the cable or may damage the cable lug if less than 5 wraps remain on the drum. If this happens it will not be covered by warranty.

## ***Spooling in with no load***

Before spooling cable please refer to the safety section of this manual.

Clutch handle will need to be in the engaged position for this process.

When spooling the cable onto the winch for storage it is important that it is wound tightly and evenly onto the drum. To do this refer to the cable pre-tensioning section on Page 6, or have an assistant hold as much tension as possible onto the hook, using the hook strap, and walk towards the winch while you operate the hand control and guide the cable evenly onto the drum. The hook can be pulled firmly against the fairlead or anchored to a recovery hook on the vehicle.



Note: Do not over tension cable or damage may occur to fairlead, winch bar or recovery hook on vehicle. Care must be taken not to get hands caught in cable, fairlead or any other moving parts of winch. Always use the hook strap and gloves when re-spooling the cable never use bare hands. Always make sure that cable for hand controller is kept well away from cable or any other moving parts to prevent it from becoming tangled.



## Winching Tips



**IMPORTANT:** Before winching under load please refer to the safety section of this manual.

It is very important to select an anchor point strong enough to hold while winching. If using a tree, it is important to use a tree trunk protector to prevent damage to the tree and also to prevent kinking the cable, and always make sure that the anchor point is as low as possible. Ideally choose an anchor point that is as straight as possible in the direction that the vehicle needs to travel. If winching on an angle it is important to make sure that the cable spools onto the drum evenly and does not bunch up at one end of the drum, if this happens the cable can run out of room and break the tie rods that hold the winch together, this will render the winch inoperable. This will not be covered by warranty.

If a natural anchor point such as a tree or tree stump can't be found then a sand anchor, or similar can be used. In some circumstances a spare wheel or log can be buried deeply in the ground and used as an anchor point, but extreme caution must be used.

Never hook the wire rope back onto itself. This will damage the wire rope. Always use a choker chain, a wire choker or tree trunk protector on the anchor.

The further the cable is spooled off the drum the more pulling power the winch will have. Always leave it least 5 wraps of cable on the drum. Never exceed the rated pulling capacity of the winch, if the winch will not recover the vehicle using a single line pull then a snatch block will be required to perform a double or even triple line pull. This is covered on Page 12 of this manual.

Before winching always ensure your winch is mounted securely and check the condition of the winch rope / cable and hook. If your rope / cable is damaged, kinked or frayed replace it immediately.



## Finding A Suitable Anchor Point

When choosing an anchor point it is crucial that it will be strong enough to hold while winching. Always try to winch in a straight line away from the winch to prevent the cable bunching up at one end of the drum causing damage to the winch.

Always connect the winch cable to the anchor point as low to the ground as possible.

Never hook the cable back onto its self around an anchor point, as this will kink the cable.

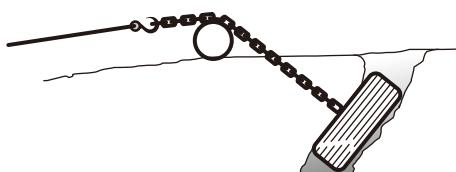
Always attach the winch cable to the anchor point using the appropriate rigging equipment, such as a tree trunk protector, choker chain or cable connected to a bow shackle rated for winching.

If anchoring to another vehicle make sure that the cable is only attached to a rated recovery point. If unsure refer to the owners manual of your vehicle.

An anchor point as far away as practical is preferable because the winches pulling power is increased the less cable there is on the drum. Always make sure that there is at least 5 wraps of cable left on the drum.

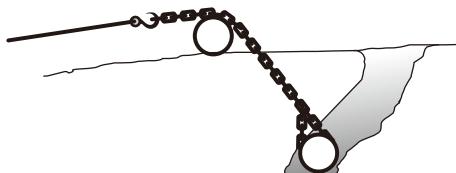
***If no suitable anchor point can be found, other options can be used with extreme caution. The following options are shown below:***

### SPARE WHEEL



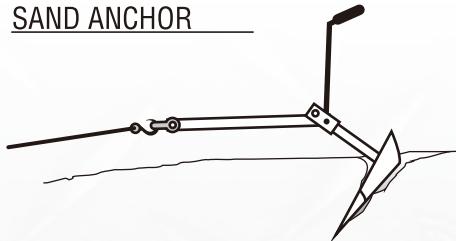
Your spare wheel and tyre can be used as an anchoring device by burying it deeply into the ground and securing to a chain or winch extension strap.

### LOG



A sturdy log can be used as an anchoring device by burying it deeply into the ground and securing to a chain or winch extension strap.

### SAND ANCHOR



## Winching - Single Line Pull



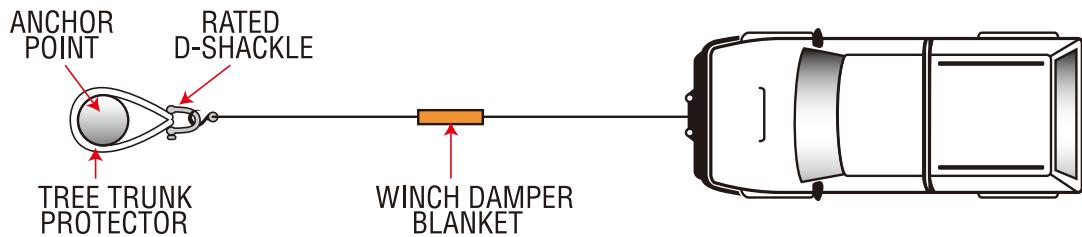
**IMPORTANT:** Before winching please refer to the safety section of this manual.

Using your hand controller, un-spool cable slightly to release the tension on the cable and turn the clutch handle to the disengage position.

Pull the cable out to the chosen anchor point and attach it using a tree trunk protector, choker chain or similar. Never hook the cable back onto itself as this will kink the cable. Always attach the cable as low to the ground as possible. The further the cable is spooled off the drum the more pulling power the winch will have, but always leave at least 5 wraps on the drum. Always try to choose an anchor point as straight as possible in the direction the vehicle needs to travel.

Re-engage the clutch handle on the winch. Using your hand controller spool the cable in slightly to take up the slack. Drape the winch blanket supplied with your winch over the cable and attach the hook and loop tabs.

### **SINGLE LINE PULL**



**NOTE:** This diagram shows wire cable. For synthetic rope damper blanket should be draped over hook end of the rope.

Always make sure when winching under load that the winch dampening blanket supplied with your winch is draped over your cable or rope. For wire cable, the blanket should be draped roughly two thirds of the way towards the hook. For synthetic rope the blanket should be at the hook end of the cable.



***Synthetic Rope***



***Wire Cable***

If multiple blankets are required when doing a double or triple line pull, a rag, jacket or solid branch can be used as a cable dampener.



Making sure that all onlookers are a safe distance away you are now ready to start recovering your vehicle. When recovering the vehicle someone should always be in the drivers seat.

It is important that all people around you know that you are winching and that clear communication is kept with the person in the vehicle.

Start the vehicles engine and release the vehicles hand brake. Begin winching using the hand controller. The vehicle can be driven slowly to assists the winch. If the winch stalls release the switch on the hand controller as this will over heat and burn the motor out. This will not be covered by warranty. In this instance it might be necessary to perform a double line pull using a snatch block.

While winching, stop periodically to touch the motor with your bare hand. If the motor is uncomfortably hot to touch you will need to wait for it to cool down before you continue winching. Also check that the cable is spooling on evenly and not bunching up at one end of the drum. If this happens the cable can run out of room and break the winch tie-rods.

If the cable is not evenly and tightly wound onto the drum the outer wraps of the cable can be drawn into the inner wraps binding and damaging the cable. If this happens, engage the hand brake on the vehicle and spool the cable off the drum slightly to a point where it can be re-spooled neatly until the cable has tension and winching can recommence.

As you winch in, avoid shock loading the cable by switching the controller intermittently. Shock loads can momentarily far exceed the load rating of the winch and the cable.

Once the vehicle has been winched clear of the obstacle, engage the hand brake and spool the cable out slightly to release the load. Disconnect the cable from the anchor point.

With an assistant holding as much tension as possible onto the hook, using the hook strap provided, re-spool the cable neatly onto the drum.

Winching is now complete.

## ***Winching Techniques***

Different winching situations require different winching techniques. This section covers various ways improving the versatility of your winch.

### ***Using A Snatch Block***

In certain instances extra pulling power will be required to recover a vehicle. If your winch stalls under load it can quickly build up excessive heat in the motor which can cause serious damage.

Using a snatch block can halve the effort required by your winch by increasing its mechanical advantage. A snatch block can also be used to change the pulling direction. Winching should always be done in a straight line from the winch to the object being winched, this prevents the winch from being damaged due to the cable being bunched up at one end of the cable drum.

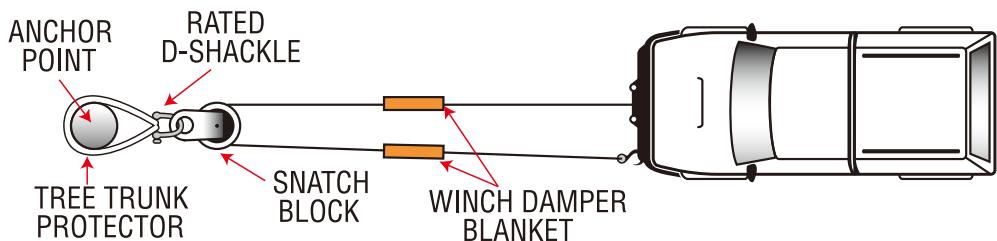


## Double & Triple Line Pull

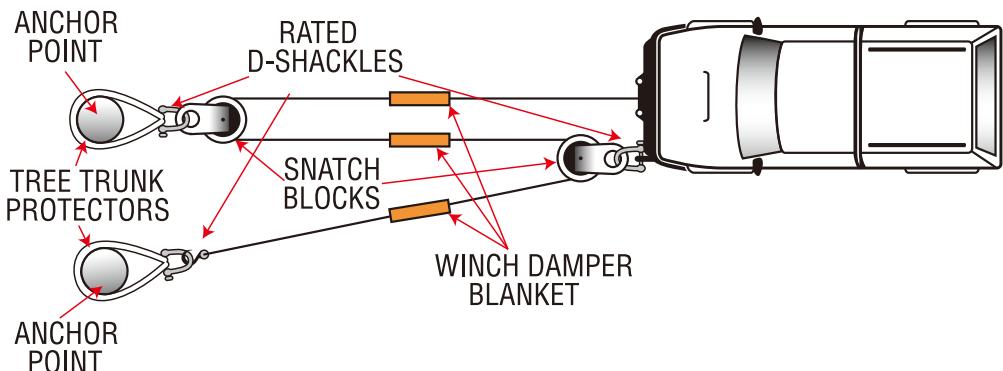
The pulling power of your winch increases with less winds of cable on the drum. If the only anchor point available is too close to your winch you can loop the cable through a snatch block and attach the hook end of your cable back to the rated recovery hook on your vehicle. This uses more cable off the drum and the snatch block also increases the mechanical advantage of the winch, and therefore decreases the effort required.

Two snatch blocks can be used to further reduce the effort required by your winch, this is called a triple line pull.

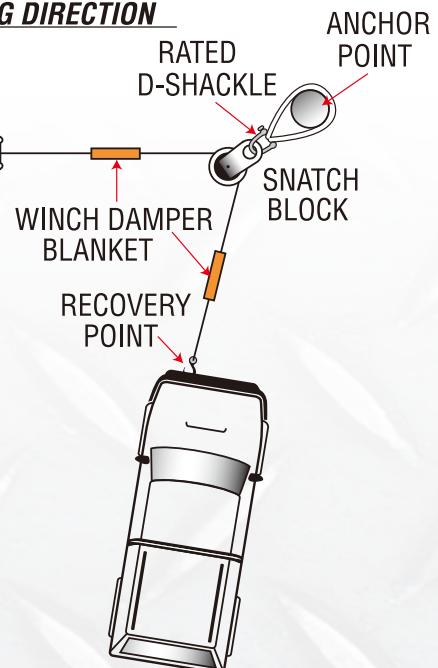
### DOUBLE LINE PULL



### TRIPLE LINE PULL



### CHANGING DIRECTION



**NOTE:** This diagram shows wire cable.  
For synthetic rope damper blanket should  
be draped over hook end of the rope.

# MAINTAINING YOUR WINCH

***Your winch will require very little maintenance as long as it is cared for in the following manner.***

1. Although every precaution is taken in the design of your winch to prevent water or moisture from entering its internal workings it is unavoidable for some moisture to accumulate inside due to weather conditions, condensation, steam cleaning, river crossings etc.

To prevent moisture from causing damage it is recommended that the winch be used on a regular basis to heat up the inside of the winch and dissipate any condensation. This will also ensure that the lubricant inside the winch covers all of the internal surfaces that could be potentially be effected by corrosion.

This process is as simple as (once a month ) or after winch has been subjected to very wet conditions power the winch out about 15m, and free spool for another 5m. Then with the vehicle on a slight incline or with the parking brake slightly engaged, power the cable back neatly

on to the drum. This pre-tensioning will also prolong the life of the cable.

This will also ensure that the winch is in good working order if it is required for vehicle recovery.

2. The condition of the wire cable or synthetic rope should be checked on a regular basis or before and after each winching operation. If damage is present such as kinks or fraying it should be replaced with another rope or cable rated and specified for your winch.
3. Electrical connections should be checked on a regular basis to ensure they are clean and tight.

## KEEPIN' IT CLEAN

- Do not direct high pressure water (pressure washers, car washes,etc.) Directly between drum support and drum flange or clutch lever.
- Use low pressure water and a soapy rag or sponge to clean the winch.
- Avoid using chemicals that may damage or cause corrosion to the finish of the winch.
- Thoroughly clean salt residue from the winch as soon as possible to minimise corrosion.

## 12000lb Monster Winch - Synthetic Rope

Power	12VDC
Motor	6.6HP / 4.1KW, Series Wound
Hand Control	Wireless Remote - Range 30.0m (100ft) Lead Remote - 3.6m (12ft) Lead
Gear Train	3 Stage Planetary
Gear Reduction Ratio	236:1
Brake	Automatic Cam lock (In Drum)
Synthetic Rope	26m of 10mm Diameter
Battery	650CCA - minimum for winching
Weight	N.W. 28kg (62lbs)



## OVERALL DIMENSIONS

562mm (L) x 215mm (H) x 156mm (W)

## MOUNTING BOLT PATTERN

254mm x 114.3mm

## 13500lb Monster Winch - Synthetic Rope

Power	12VDC
Motor	6.6HP / 5KW, Series Wound
Hand Control	Wireless Remote - Range 30.5m (100ft) Lead Remote - 3.6m (12ft) Lead
Gear Train	3 Stage Planetary
Gear Reduction Ratio	265:1
Brake	Automatic Cam lock (In Drum)
Synthetic Rope	26m of 10mm Diameter
Battery	650CCA - minimum for winching
Weight	N.W. 29kg (64lbs)



## OVERALL DIMENSIONS

562mm (L) x 215mm (H) x 156mm (W)

## MOUNTING BOLT PATTERN

254mm x 114.3mm

# GETTIN' THE RIGHT GEAR

*To compliment your 4x4 Winch, the following accessories can be purchased separately from our Amazon store*

## ***Winch Damper Blanket***

When winching under load a dampening blanket should always be used. It is draped over the cable when it is under tension to dampen its inertia if it snaps or comes adrift from its anchor point. This will prevent it from whipping and potentially injuring people or damaging the car or equipment.



## ***Synthetic Rope***

Synthetic rope is an alternative to steel cable. It is much lighter than steel cable. It is much safer than steel cable if it snaps under extreme load because it will not whip potentially causing injury or damage. It is able to be spliced back together if it was to snap.



## ***Tree Trunk Protector***

A tree trunk protector is essential if using a tree as an anchor point. This prevents ring barking the tree. It can also be used for several other applications when connecting your cable or rope to an anchor point.

