



# FITTING INSTRUCTIONS

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

## VEHICLE RECOVERY ELECTRIC WINCH



### CONTENTS

* Warranty	* Warnings	* Operation	* Specifications
* Safety Precautions	* Installation	* Maintenance	* Parts List

### Warranty

1. If any product or part of a product manufactured by TJM is found to be defective during a period of two (2) years after the date of purchase, TJM shall repair or replace (at TJM's discretion) the defective product or part.
2. Any defect in a product distributed by TJM, but not manufactured by TJM, shall be dealt with in accordance with, and to the extent of, the warranty offered by the manufacturer of that product.
3. TJM does not warrant that the products manufactured by it comply with the laws of the place where those products are purchased or used. It is the sole responsibility of the Purchaser to ascertain whether products being purchased - or the affixation of those products to any other object - comply with local laws.
4. Except to the extent described in this warranty, TJM shall not be liable for any other claim, including those claims arising from faulty design, the use of the product on any indirect special or consequential damage or injury to any person, company or other entity.
5. Modification or alteration to any product manufactured by TJM to enable fitment in conjunction with other vehicle accessories or modifications (e.g. lift kits) will void any warranty claims.

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

## VEHICLE RECOVERY ELECTRIC WINCH

Distributed by TJM Products Pty Ltd  
Free replacement or repair limited warranty policy

TJM Products warrants each winch against factory defects in material and workmanship to the original purchaser for the period of two years. The owner will be responsible for removing the winch and returning it to TJM Products freight prepaid. TJM Products will repair or replace at TJM's discretion the defective product or part. The purchaser must send a copy of receipt to qualify for warranty. Exclusions from this warranty are the finish and any conditions TJM Products determines to have been caused by abuse or abnormal use. This warranty shall not apply to any electric winch improperly operated or improperly installed. There are no warranties, expressed or implied, which extend beyond the original purchaser. The loss of use of the vehicle, loss of time, inconvenience, commercial loss or consequential damages are not covered. TJM Products reserves the right to redesign and make any changes to any product without assuming any obligation to modify any product previously supplied or manufactured. You must retain your receipt as proof of purchase, original receipt must be produced for warranty claims.

All products requiring warranty service should be sent freight prepaid to:



**TJM Product Pty Ltd.**

150 Robinson Rd  
Geebung Brisbane Queensland 4034 Australia  
Phone. (07) 38659999 - fax. (07) 32651107  
International Phone. 61 - 7 - 38659999 - fax. 61 - 7 - 32651107  
Website: <http://www.tjm.com.au>

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

## **SAFETY PRECAUTIONS**

**Warning!** *Observe safety precautions for personal safety and the safety of others. Improper equipment operation may cause personal 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 jewellery. 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.
- 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 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 centre.

### **7. Repair Your Winch:**

- When repairing, use only identical replacement parts or it may cause considerable danger for 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 centre 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.

**Warning:** *The use of any other accessory or attachment other than those recommended in this instruction manual will void the warranty and may present a risk of personal injury.*

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

## 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 centre of the vehicle. After the job is done you can unspool and rewind for a neat lay of the cable.
2. Store the remote control switch inside your vehicle where it will not become damaged, inspect it before you plug it in.
3. When ready to begin spooling in, plug in remote control switch with clutch disengaged, do not engage clutch with motor running.
4. Never connect the hook back to the cable. This causes cable damage. Always use a tree trunk protector strap or winch cable extension strap, which can be found in the TJM Recovery kit.
5. Observe the operation of the winch from the safety of the vehicle cabin, with the bonnet in the upright position. Stop the winching process every metre or so to assure the cable is not pulling up in one corner of the winch drum. If the cable bunches, damage to the winch can occur.
6. Do not attach tow hooks to winch the mounting apparatus. The tow hooks must be attached to a vehicle recovery point recommended by the manufacturer of the vehicle.
7. 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, and the means to maintain a direct line pull to the centre of the rollers. When double loading during stationary winching, the winch hook should be attached to a recovery point recommended by the manufacturer of the vehicle.
8. Ensure rated "D" or bow shackles are used in conjunction with an approved tree trunk protector to provide a safe anchor point.
9. 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.
10. All Winches are provided with a Red Cable marking to identify that 5 cable wraps remain on the Winch drum when this mark appears at the rollers. No recovery should be attempted beyond this marking.
11. Since the greatest pulling power is achieved on the innermost layer of your winch, it is desirable 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.
12. Draping a heavy blanket or similar object over the extended winch cable is recommended as it will dampen any back lash should a failure occur. Also have the bonnet in the raised position to prevent the cable penetrating through the windscreen.
13. Neat, tight spooling avoids cable binding.
14. Apply blocks to wheels when vehicles are on an incline.
15. 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 flattening the battery.
  - It is recommended that a TJM Dual Battery System is fitted
  - **The minimum battery requirement is 650 CC.**

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

**16. 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 use of the winch should be a familiarisation run while in a relaxed, non-recovery situation. Spool out the cable until the red cable mark appears (about five wraps on the drum), then 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 Loctite, or an equal compound, to the cable clamp thread. Tighten the clamp screw properly but do not over tighten. The loctite will prevent loosening of the screw in arduous conditions. Loctite 7471 Primer and 222 Thread Locker are recommended.

NOTE: The clamp screw is not designed to hold any load. It is purely an anchor point for the winch cable.

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

**18.** DO NOT drive your vehicle to assist the winch in any way. Vehicle movement in combination with winch operation may overload the cable, the winch itself or cause damaging shock loads.

**19.** 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.

**20.** The winches shown in this manual are solely for vehicle and boat mounted non-industrial applications.

**21.** Do not use winch in hoisting applications due to required hoist safety factors and features.

**22.** Do not use the winch to lift, support or otherwise transport personnel.

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

## CLOCKING GEARBOX HOUSING

Winch gear housing can be clocked in 10 ways allowing the user to position the clutch lever at 10 equal distant locations (0°, 36°, 72°, ....., 360°).



Ensure you have a clean work area before commencing.

1. Remove the two allen head cap screws (circled) holding the tie rod on the gearbox side of the winch.



Diagram 1.

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

- Carefully remove the gearbox away from the cable drum.



Diagram 2.

- Unscrew all the 10 allen head cap screw holding the gearbox foot casting to the gearbox housing.

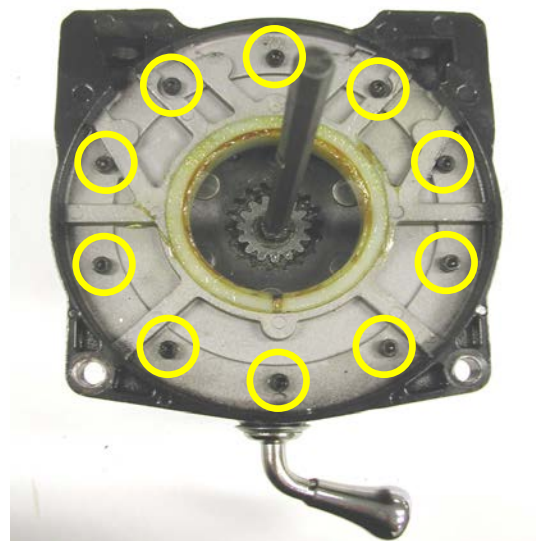


Diagram 3.

- Rotate the gearbox foot casting to the desired position.

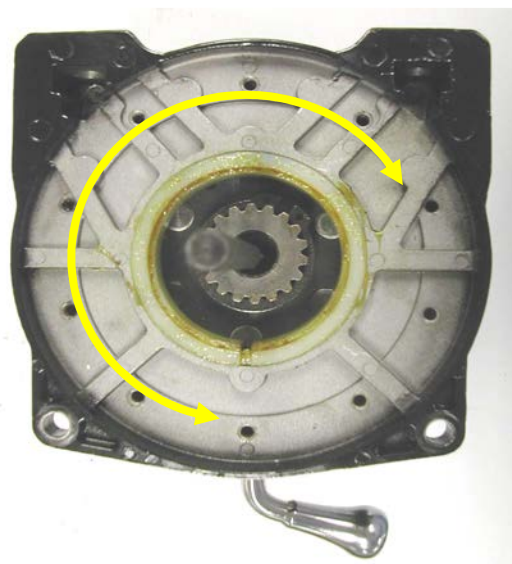


Diagram 4.

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

5. Line the 10 holes, ensuring that the gasket is also lined up between the gearbox foot casting & gearbox housing.
6. Tighten all 10 allen head cap screw in a diagonal sequence.



Diagram 5.

7. Carefully assembly the gearbox back into the cable drum, ensuring the sun (centre) gear is lined up in the cable drum.



Diagram 6.

8. Refit & tighten the two allen head cap screws to the tie rods.
9. Check the operation of the clutch handle to ensure gearbox engages & fit winch to bar.



Diagram 7

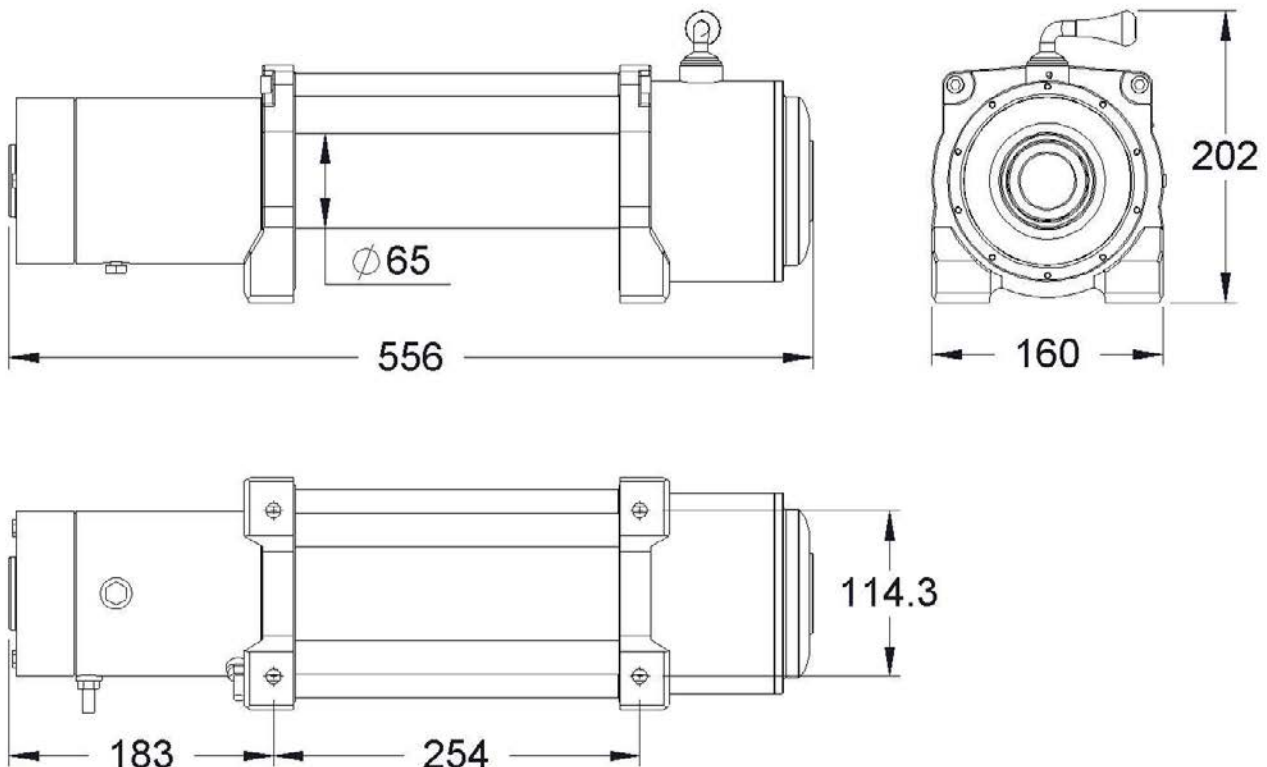


<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

## INSTALLATION

### MOUNTING YOUR WINCH

- The winch is to be mounted into a suitable steel mounting frame using the 4 point foot mounting system in either a horizontal or vertical plane.
  - It's very important that the winch be mounted on a flat surface so that the three sections (motor, cable drum and gear housing) are properly aligned.
  - Before commencing installation, ensure the mounting facility being used is capable of withstanding the winches rated capacity.
  - The fitment of winches and / or a frontal protection system may affect the triggering of SRS air bags. Check that the mounting system has been tested and approved for winch fitment in the airbag equipped vehicle.
- TJM Products manufacture winch mounting frames and / or Frontal Protection Systems to suit most popular vehicles. Winch frames are packaged with detailed fitting instructions.
- The winch should be secured to the mount with four M10 x 1.5 x 30mm stainless steel bolts, spring washers provided and square nuts which are pre-installed at the base of the winch.
- The roller fairlead is to be mounted so as to guide the rope onto the drum evenly.



### LUBRICATION INSTALLATION

All moving parts in the winch are permanently lubricated with heavy duty grease at the time of assembly. Under normal conditions factory lubrication will suffice. Lubricate cable periodically using light penetrating oil. Inspect for broken strands and replace if necessary. If the cable becomes worn or damaged it must be replaced.

### CABLE INSTALLATION

Unwind the new cable by rolling it along the ground, to prevent kinking. Remove old cable and observe the manner in which it is attached to the cable drum flange.

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

### ELECTRICAL CONNECTION

For self-recovery work, the fitment of a TJM Dual Battery System is recommended. A fully charged battery and proper connections are essential. Run the vehicle engine during winching operations to keep batteries (2) charged.

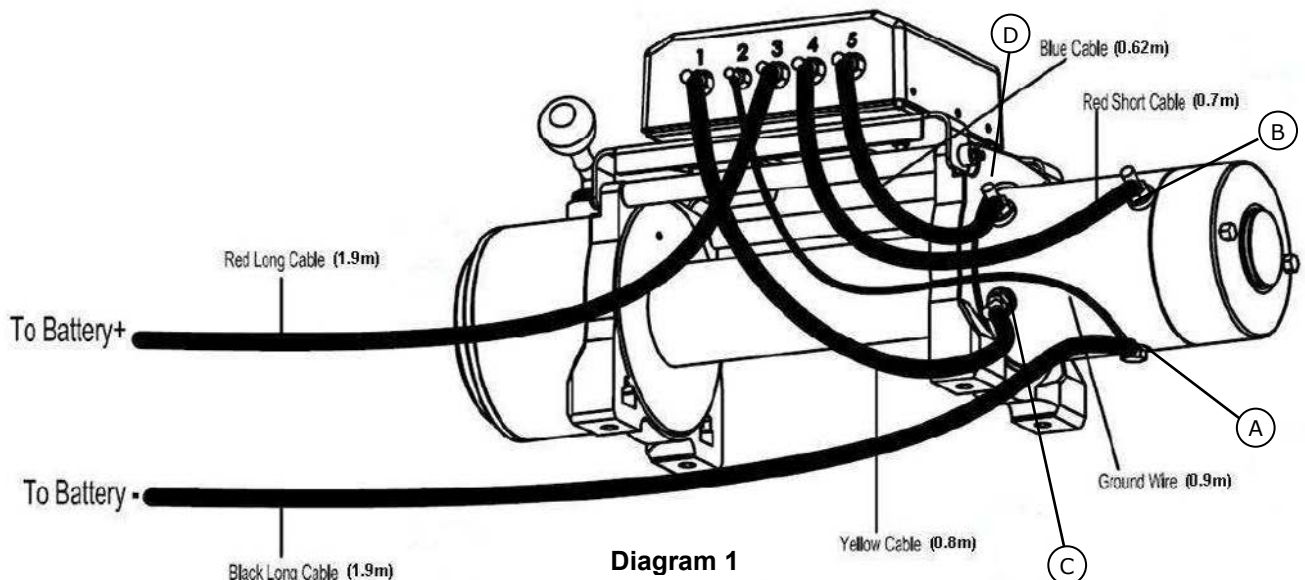
### Important

When securing the leads to the terminals on the winch motor, ensure that two open end spanners are used to secure the lead to the terminal (as shown). **Failure to do so will result in the internal connections of the motor shorting out and void any warranty.**



Pay close attention to proper electrical lead connection as follows (refer to Diagram 1)

- Long black lead – connects to negative (-) terminal of battery & to bottom terminal of motor (A).
- Earth Lead (Thin black lead) – connects to No. 2 stud on control box to bottom terminal of motor (A).
- Long red lead – connects to positive (+) terminal of battery & to No 3 stud on control box.
- Short red lead – connects to No. 4 stud on control box & to red stud (B) of motor.
- Short yellow lead – connects to No. 1 stud on control box & to yellow stud (C) of motor.
- Short blue lead – connects to No. 5 stud on control box & to blue terminal stud (D) of motor.



### NOTE:

1. Your battery must be kept in good condition.
2. Be sure battery cables are not drawn taught across any surfaces, which could possibly damage them.
3. Corrosion on electrical connections will reduce performance or may cause a short.
4. Clean all connections especially in remote control switch and receptacle.
5. In salty environments use a silicone sealer to protect from corrosion.
6. Index the heads of the plate studs into the keyhole slots on the back of the winch.
7. Attach the winch/Adaptor Plate assembly to your trailer hitch, by inserting the trailer hitch ball through the shaped hole in the Adaptor Plate.

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

## KILL SWITCH INSTALLATION

It is recommended that a kill switch be installed with your winch to isolate the winch to prevent inadvertent operation of the winch. It is recommended that the kill switch be fitted in a location where it is easily accessible when winching. The following is a guide only, it is up to the end user to best determine the location.

1. Disconnect the long BLACK from the negative (-) side from the vehicle battery
2. Pick a suitable position for the kill switch in an easily accessible location &
3. Using the kill switch bracket as a guide mark the four mounting holes where the kill switch will be installed
4. Remove the kill switch bracket & drill four marked holes, making sure the drill bit will not damage wiring or other parts when the drill bit exits
5. Debur all holes & treat raw surfaces with rust preventative
6. Ensure the kill switch is to the "OFF" position
7. Using the long RED cable from the vehicles battery (+) connect it to one side of the kill switch (it does not matter which side of the kill switch)
8. Connect the short red wire to solenoid box switch (+), see diagram 1 (position 3 marked on the solenoid box)
9. Connect the other end of the short red wire to the kill switch
10. Secure the kill switch bracket using suitable fasteners
11. Connect the long RED cable to the positive (+) side of the vehicle battery
12. Re-connect the long BLACK from the negative (-) side from the vehicle battery
13. Check that all connections are secure & cables are not rubbing or chaffing or against any sharp edges
14. Turn the kill switch to the "ON" position & operate the winch in the "OUT" position. While the winch is still operating in the out position turn the kill switch to the "OFF" & the winch should lose all power.

## 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:

1. Ensure the vehicle is secure by applying the parking brake or chocking the wheels
  2. Pull out the winch cable the desired length and connect to an anchor point.  
The winch clutch allows rapid uncoiling of the cable for hooking onto the load or anchor point. The shifter tab located on the gear housing of the winch operates the clutch as follows:
    - a) To disengage the clutch, move the clutch lever to the "OUT" position. Cable may be free spooled off the drum.
    - b) To engage the clutch, move the clutch lever into the "IN" position. The winch is now ready for operation.
  3. Recheck all cable rigging before proceeding.
  4. Plug in the winch hand control. It is recommended that the winching operation takes place from the driver's position to ensure safe operation. It is also recommended that a heavy blanket be placed over the cable, and the bonnet placed in the upright position.
  5. To commence winching operation, start vehicle engine, select neutral in transmission, maintain engine speed at idle.
  6. 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.
- NOTE: The winch is designed for intermittent use, not continuous use. This is to prevent over heating.

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

**Note:**

1. Never winch with your vehicle in gear or in park, which would damage your vehicle's transmission.
2. 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.
3. Keep hands, clothing, hair and jewellery clear of the drum area and cable when winching.
4. Never use the winch if the cable is frayed, kinked or damaged.
5. 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 brake, it can suddenly whip back towards the winch, causing a hazard for anyone in the area.
6. Don't leave the switch plugged in when the winch is not in use.

***CHECK THE WINCH CAREFULLY AND THOROUGHLY BEFORE OPERATING!***

**MAINTENANCE****Winch**

It is highly recommended that the winch be operated 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.

**Synthetic Rope**

Regular maintenance will prolong the life of your winch rope. Periodically check the rope for damage or wear. Also, it's just as important to check the fairlead for damage, as a roughed-up fairlead can easily damage your rope.

Never combine a synthetic rope with a fairlead that has sharp edges, such as a fairlead worn down by steel cable. An aluminum hawse fairlead is highly recommended for use with synthetic rope, since the aluminum hawse has no sharp edges and resists damage more easily than a roller fairlead.

Wash your synthetic rope regularly and always after driving through mud or saltwater. Unwind the rope and rinse it off with a garden hose to remove mud, salt, grit, and debris. Never use solvents, bleach, or harsh detergents to clean your rope. They can weaken the fibres and compromise the strength of the rope. Let the rope air dry before storing or respooling. Keep synthetic rope covered to slow down the fading of the rope. Even with UV inhibitors, exposure to the sun will eventually fade the colour on your rope. Synthetic line is designed to withstand harsh exposure to the elements, since it was originally developed for marine use, but it will last longer (and look better) if you keep it covered.

Contact your authorised outlet for technical assistance and repairs.

**SPARE PARTS**

A comprehensive range of spare parts is available.

Distributed by **TJM Products Pty Ltd.**



Head Office -150 Robinson Rd  
 Geebung Brisbane Queensland 4034 Australia  
 PO Box 23 Geebung 4034  
 Phone. (07) 38659999 - fax. (07) 32651107  
 International Phone. 61-7-38659999 - fax. 61-7-32651107

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

## 9000lb FEATURES & SPECIFICATIONS

Single line rated pull	9000lbs (4082kg) single-line
Motor	5.5hp/4.0kw, Series Wound
Control	Remote switch, 12ft (3.7m) lead
Gear Train	3 Stage Planetary
Gear Reduction Ratio	218:1
Clutch	Sliding Ring Gear
Braking Action	Automatic In-The-Drum
Drum Size	Diameter 65mm Length 224mm
Cable	28m of 8.2mm diameter (Steel)
Fairlead	4-Way Roller Fairlead
Remote Control	Included
Battery	Recommended: 650CC minimum for winching
Battery Leads	2 gauge, 1.9m
Finish	Black Onyx
Weight	80.5lbs (36.5kg)
Overall Dimensions	(LxWxH) 21.9" x 6.3" x 8" (556 x 160 x 202mm)
Mounting Bolt Pattern	10.00±0.015" x 4.50±0.010" (254 x 114.3mm)

## 9000lb LINE SPEED & AMP DRAW (1st LAYER)

LINE LOAD LBS/KGS	LINE SPEED			MOTOR CURRENT
	(CM)	MPM	FPM	
0/0	802	8.02	26.3	78
2000/907	456	4.56	15	141
4000/1814	340	3.4	11	196
6000/2722	284	2.84	9.3	256
9000/4082	260	2.6	8.5	312

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

## 9500lb FEATURES & SPECIFICATIONS

Single line rated pull	9500lbs (4309kg) single-line
Motor	5.5hp/4.0kw, Series Wound
Control	Remote switch, 12ft (3.7m) lead
Gear Train	3 Stage Planetary
Gear Reduction Ratio	218:1
Clutch	Sliding Ring Gear
Braking Action	Automatic In-The-Drum
Drum Size	Diameter 65mm Length 224mm
Cable	30m of 9.5mm diameter (Synthetic Rope)
Fairlead	Hawse Fairlead
Remote Control	Included
Battery	Recommended: 650CC minimum for winching
Battery Leads	2 gauge, 1.9m
Finish	Black Onyx
Weight	NW 70.6lbs (32kg) / GW 77.2lbs (35kg)
Overall Dimensions	(LxWxH) 21.9" x 6.3" x 8" (556 x 160 x 202mm)
Mounting Bolt Pattern	10.00±0.015" x 4.50±0.010" (254 x 114.3mm)

## 9500lb LINE SPEED & AMP DRAW (1st LAYER)

LINE LOAD LBS/KGS	LINE SPEED			MOTOR CURRENT
	(CM)	MPM	FPM	
0/0	756	7.56	24.8	71
2000/907	472	4.72	15.5	135
4000/1814	352	3.52	11.5	190
6000/2722	284	2.84	9.3	234
8000/3629	216	2.16	7.1	290
9500/4309	192	1.92	6.3	334

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

## 12000lb FEATURES & SPECIFICATIONS

Single line rated pull	12000lbs (5443kg) single-line
Motor	5.5hp/4.0kw, Series Wound
Control	Remote switch, 12ft (3.7m) lead
Gear Train	3 Stage Planetary
Gear Reduction Ratio	221:1
Clutch	Sliding Ring Gear
Braking Action	Automatic In-The-Drum
Drum Size	Diameter 65mm Length 224mm
Cable	30m of 9.5mm diameter (Synthetic Rope)
Fairlead	Hawse Fairlead
Remote Control	Included
Battery	Recommended: 650CC minimum for winching
Battery Leads	2 gauge, 1.9m
Finish	Black Onyx
Weight	NW 70.6lbs (32kg) / GW 77.2lbs (35kg)
Overall Dimensions	(LxWxH) 21.9" x 6.3" x 8" (556 x 160 x 202mm)
Mounting Bolt Pattern	10.00±0.015" x 4.50±0.010" (254 x 114.3mm)

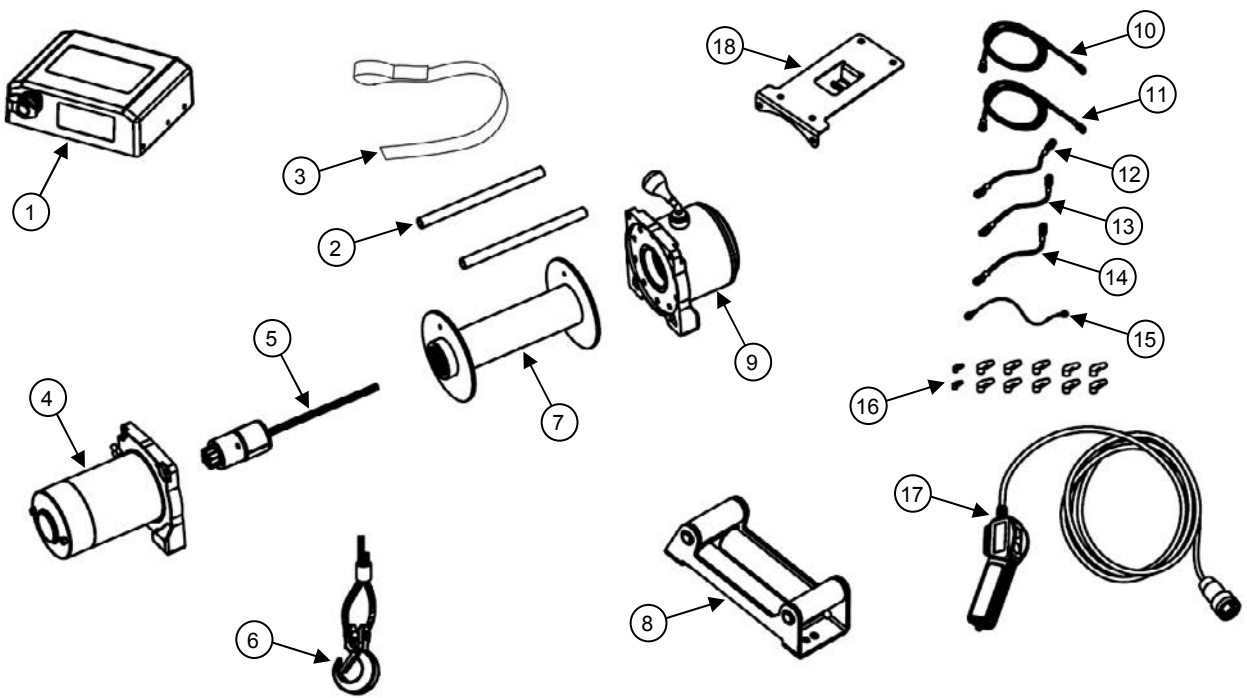
## 12000lb LINE SPEED & AMP DRAW (1st LAYER)

LINE LOAD LBS/KGS	LINE SPEED			MOTOR CURRENT
	(CM)	MPM	FPM	
0/0	600	6.0	19.7	70.0
2000/907	348	3.5	11.4	125.0
4000/1814	224	2.2	7.3	190.0
6000/2722	174	1.7	5.7	230.0
8000/3629	124	1.2	4.1	279.0
10000/4536	96	1.0	3.1	334.0
12000/5443	80	0.8	2.6	362.0

<b>Product:</b>	<b>ELECTRIC WINCH</b>		
	<b>9000lb</b>	<b>9500lb</b>	<b>12000lb</b>

**Service Part Listing**

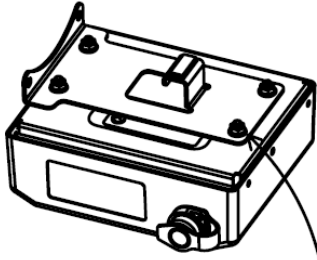
Item	Part Number	Qty	Description	Item	Part Number	Qty	Description
1	946MOXBOX	1	OX CONTROL BOX	12	946MOXREDSHORT	1	SHORT RED CABLE
2	946MOXTIEBAR	2	TIE BAR	13	946MOXYELSHORT	1	SHORT YELLOW CABLE
3	867OXHSTRAP	1	HOOK STRAP	14	946MOXBLUSHORT	1	SHORT BLUE CABLE
4	946MOXMOTOR	1	MOTOR 5.5 HP DC12V	15	946OXGROUND	12	GROUND WIRE
5	946MOXBRAKE	1	BRAKE ASSEMBLY	16	946MOXKIT	1	TERMINAL BOOT
6	946MOXHOOK	1	3/8" SAFETY HOOK	17	946MOXTOGCON	1	OX HAND CONTROL
6	946TJMWHOOK	1	WINCH HOOK (Suits Synthetic Rope)	18	946MOXMOTORMOUNT	1	MOTOR MOUNT
7	946MOXDRUMASS	1	DRUM ASSEMBLY	19	946TJMSYNR1	1	9.5mm SYNTHETIC ROPE
8	946MOXFAIR	1	FAIRLEAD ROLLER	20	946TJMSC8MM		8.2mm STEEL CABLE
9	946MOXGEAR	1	GEAR HOUSING/CARRIER ASSEMBLY	21	946TJMKSKIT	1	KILL SWITCH KIT
10	946MOXRED EXT	1	RED LONG CABLE	22	946TJMHAWSE	1	HAWSE FAIRLEAD
11	946MOXBLK EXT	1	BLACK LONG CABLE	23			





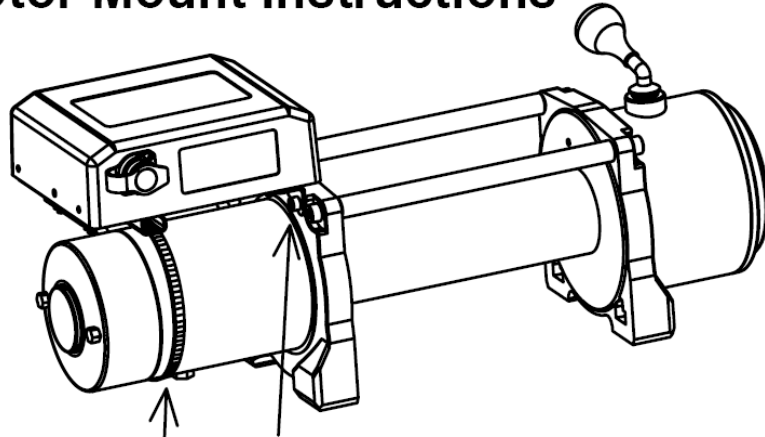
Product:	ELECTRIC WINCH		
	9000lb	9500lb	12000lb

## Motor Mount Instructions



Install solenoid box on to motor mount using bolts supplied.

Install as shown.



Remove the 2 bolts and place motor mount.  
Reinstall the 2 Bolts.

Install zip tie through L bracket and around the motor and zip tight.