

4x4 ACCESSORIES

**+ 12,000LB 12V
HEAVY DUTY
ELECTRIC WINCH
Instruction Manual**



⚠ IMPORTANT INFORMATION BEFORE USING YOUR 12V ELECTRIC WINCH ⚠

The responsibility for safe operation of this winch ultimately rests with the operator. Please read all operating instructions carefully before installation and operation of your winch. Retain instructions for future reference. Use winch only as intended and outlined in operating instructions. Safety precautions should always be followed to reduce the risk of personal injury and damage to the winch.

+ SAFETY WARNINGS

- + Ensure the instruction manual is read in full prior to the installation of the winch.
- + It is recommended that the user has four wheel drive training and is familiar with recovery situations prior to using the winch.
- + A minimum of 8 wraps around the drum barrel is necessary to hold load.
- + Do not exceed maximum line pull capacity.
- + Do not use winch to lift or move people.
- + Do not disengage clutch under load.
- + Do not leave clutch engaged when not in use.
- + Keep clear of synthetic rope when under load and do not handle the rope under load. Do not try to guide the synthetic rope while under load.
- + All persons should be kept a safe distance from any recovery situation (recommended 1.5 times the unstretched rope). Never situate yourself or your observers within the path of any vehicle under recovery.
- + Rated recovery hooks/points on each vehicle needs to have sufficient strength and need to be fitted correctly.
- + Worn or damaged winches or equipment should never be used.
- + Never connect DC power winches to AC power supply, motor damage or fatal shock may occur.
- + Designed to move a load at ground level or up an incline less than 30°.
- + Use safe practices whilst winching and stay clear of the danger zone of rotating winch drum, fairlead, clevis hook or winch motor. Relieve tension on rope and disconnect power before placing hands anywhere near this danger zone. Disconnect the power before working in or around the winch drum.
- + Only use provided remote control and accessories.
- + It is recommended to use a winch dampener when recovery operation is performed.
- + Correct installation of your winch is required for safe and correct operation - It is important that the winch is mounted on a flat surface so that the three sections (motor, drum and gear housing is properly aligned).
- + Be sure that your structural support (minimum of 10mm thickness) is strong enough to support the maximum pulling capacity of winch.
- + Do not weld or machine any part of the winch. Machining or welding may weaken the structural integrity of the winch.
- + The fitment of recovery winch and or a frontal protection system (bullbar) may affect the triggering of SRS airbags in an accident. Check that the mounting system has been tested and approved for winch fitment on an airbag equipped vehicle. i.e the winch should only be fitted to winch compatible bullbars.
- + Beware of the danger zone. The danger zone is the area of the rotating synthetic rope drum, fairlead, synthetic rope, clevis hook and winch motor. First relieve tension on the synthetic rope then disconnect the control switch, before putting hands in or near the danger zone. Disconnect the power leads before working in or around the winch drum.

- WARNING - KEEP BATTERIES OUT OF REACH OF CHILDREN.
- Swallowing may lead to serious or fatal injury in as little as 2 hours, due to chemical burns and potential perforation of the esophagus.
- Never allow children to replace button batteries of any device.
- If you suspect your child has swallowed or inserted a button battery immediately call the 24-hour Poisons Information Centre on 13 11 26 (AU) or 0800 764 766 (NZ) for fast, expert advice.
- Regularly examine devices and make sure the battery compartment is correctly secured, e.g. that the screw or other mechanical fastener is tightened. Do not use if compartment is not secure.
- Dispose of used button batteries immediately and safely out of the reach of children. A battery can still be dangerous even when it can no longer operate the device.
- Due to the risk of fire, explosion or leakage, do not disassemble, charge, crush or expose to fire or high temperatures.
- Tell others about the risk associated with button batteries and how to keep their children safe.

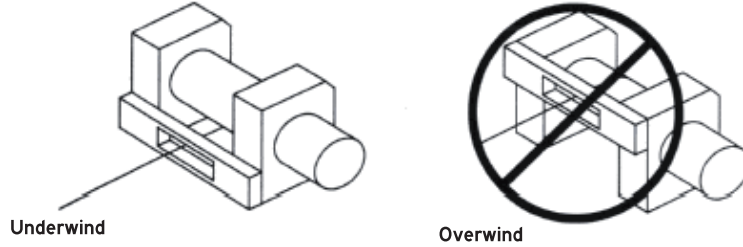


+ OPERATION

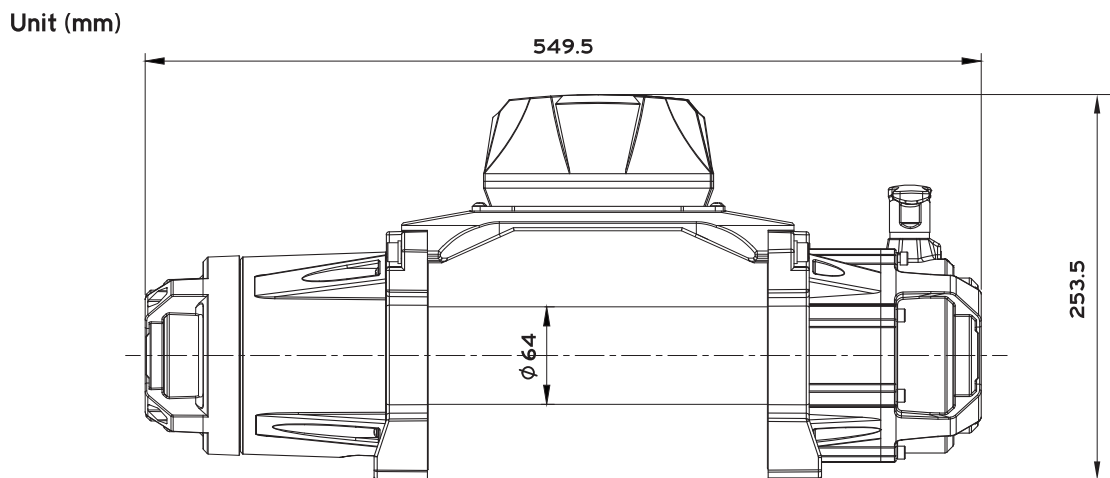
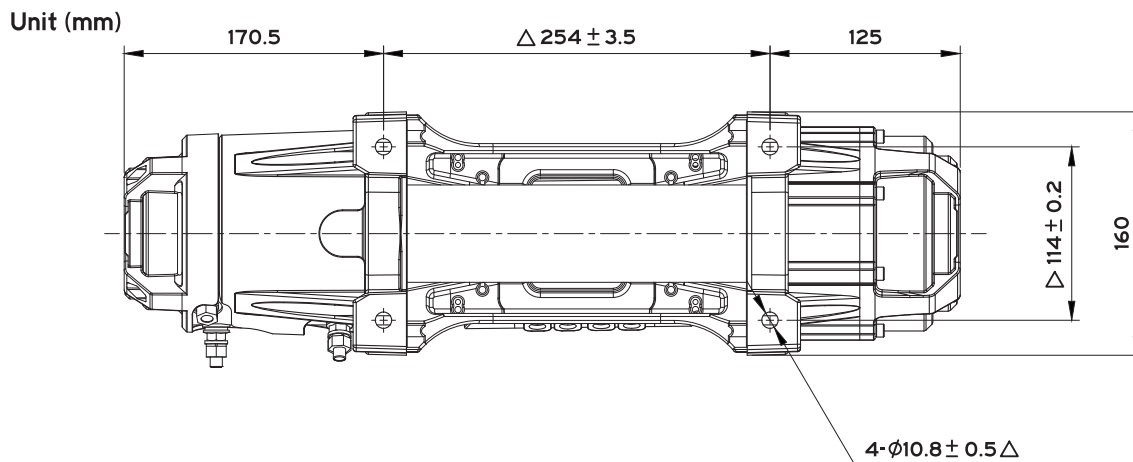
- + This winch is designed for intermittent use, continual use will cause overheating of components.
 - + The winch is not intended for industrial use or use with hoisting operations or overhead lifting.
- Clutch - The clutch handle located on the gear box has two positions, engaged, disengaged. Turn the lever to freespool position to enable cable to be pulled manually from the drum. When lever is in engaged position the drum is connected to the gearbox and can be powered by winch motor. The lever can only be moved when there is no load on the winch. The drum may need slight rotation to align gears prior to activation. Do not leave clutch engaged when not in use.
- Brake - the winch has an automatic in the drum brake, this prevents vehicle from rolling backwards when winching upon a hill. Ensure rope is wound onto the drum in the right direction (shown by arrow) to ensure this safety feature is in operation.
- Powering your winch - It is a minimum requirement to use 720CCA battery, ensure vehicle motor is running during winching operations to ensure sufficient charge in the battery. Ensure the battery is in good condition and all electrical leads have clean and secure connections.
- Duty cycle - The maximum normal duty cycle is 50 seconds followed by 5 minute cool down period, maximum of 10 cycles under normal environment temperatures.
- Wired remote - Connect the remote to the control box with the 3.5m lead, connect other end of lead to hand controller, use by pressing the directional switches.

+ FITMENT

1. Mount the winch to a flat firm base plate, a minimum of 10mm thickness is required, as the pressure placed on the winch may cause it to bind the gearing if it is not mounted as so. A universal winch ready bull bar should have all the sufficient bolt holes and room to fit the winch. While mounting, remember that the winch is to be operated with the synthetic rope in an under-wound orientation on the synthetic rope drum. The winch is designed to WIND IN and WIND OUT in one direction. DO NOT attempt to reverse the operation of the winch.
2. The winch should be secured with carbon steel bolts M10 x 30mm and nuts M10 and spring washers provided.
3. The fairlead is is to be mounted so as to guide the winch rope onto the drum.



+ WINCH MOUNTING BOLT PATTERN & DIMENSIONS



+ ELECTRICAL CONNECTIONS

CAUTION:

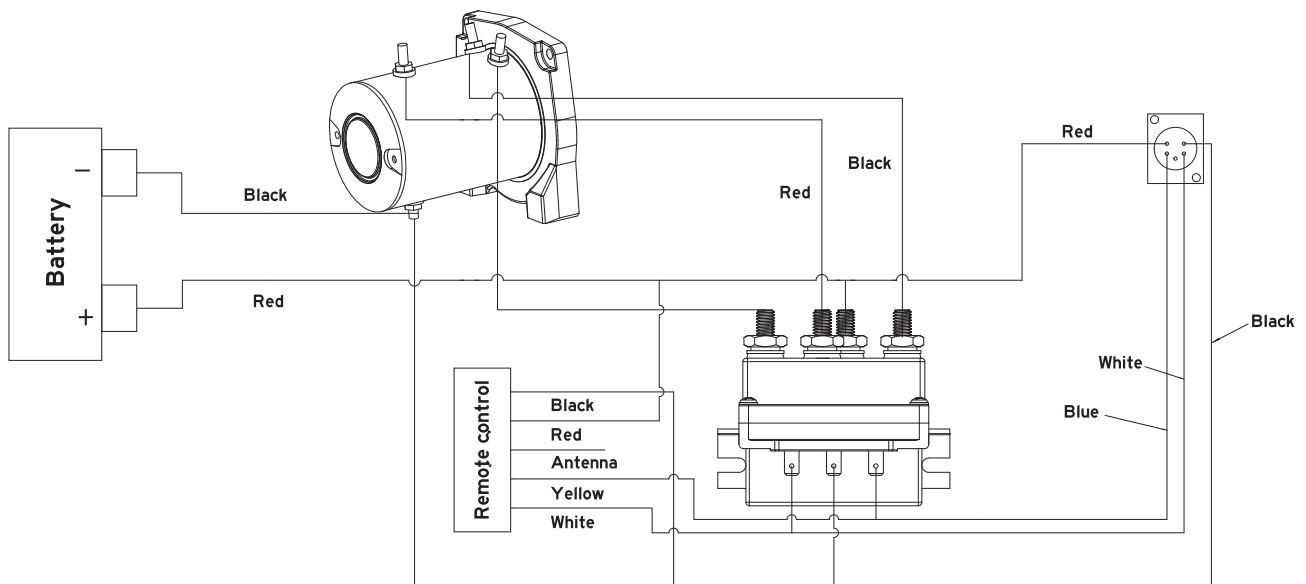
- + Take appropriate safety precautions while working with or around battery connections.
- + Always wear eye protection when working around batteries.
- + Be sure that the battery is in good condition. Avoid contact with the battery acid or other contaminants.
Corrosion on the electrical connections will reduce performance or may cause shorting out.
- + Never route electrical cables across sharp edges, through or near moving parts or near parts that may become hot.
- + Always insulate and protect all exposed wiring and electrical terminals.
- + Always install terminal bolts as supplied with the winch.

BATTERY REQUIREMENTS

- + Recommended 720CCA battery is suggested as a minimum.
- + It is suggested to run the vehicle's motor during winching operations to keep sufficient charge in the battery.

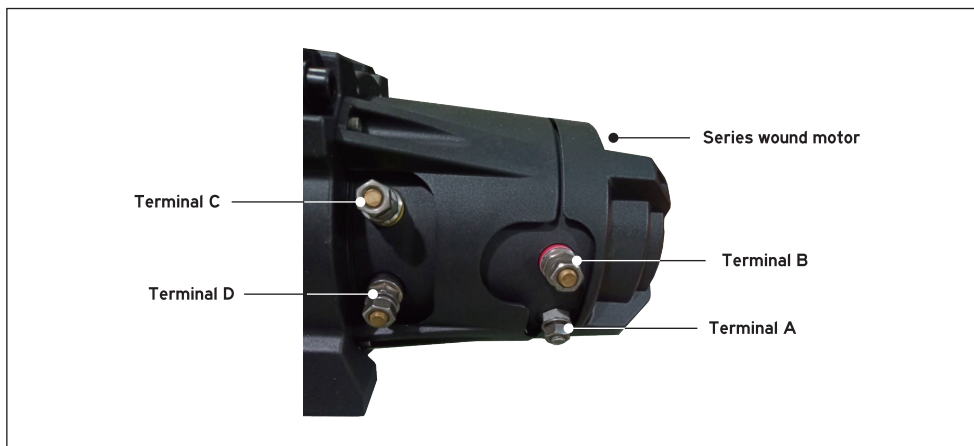
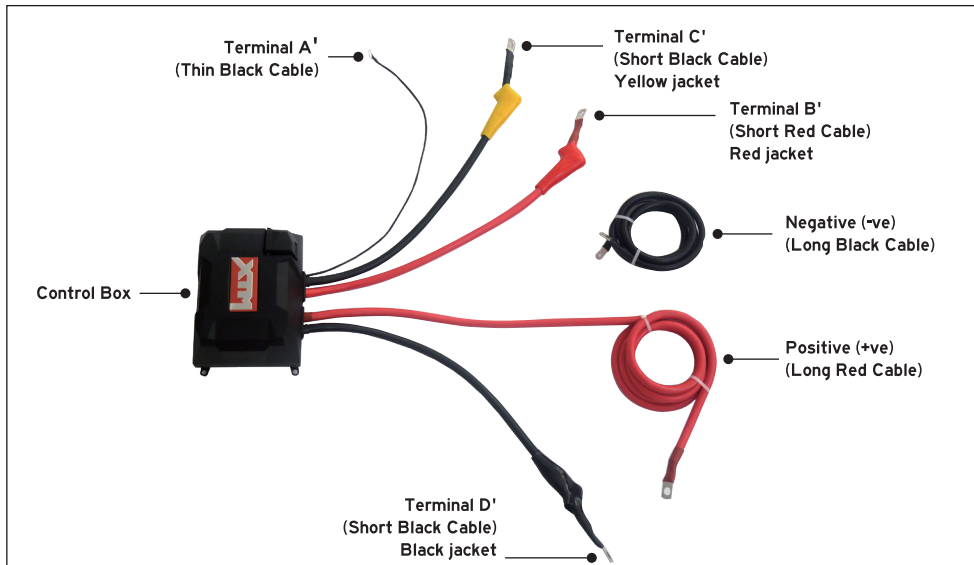
+ ELECTRICAL CIRCUIT DIAGRAM

Single Solenoid Version



+ CONNECTION INSTRUCTIONS (AS PER DIAGRAM)

1. Connect short red cable with red jacket (B') to the red terminal (B) of winch motor
2. Connect short black cable with yellow jacket (C') to the yellow terminal (C) of winch motor
3. Connect short black cable with black jacket (D') to the black terminal (D) of winch motor
4. Connect thin black cable (A') to the terminal (A) of winch motor
5. Connect long black cable: one end, to the terminal (A) of winch motor and the other end, negative (-) terminal to your battery
6. Connect the long red cable to the positive (+) terminal to the battery



+ STRETCHING AND PREPARING THE SYNTHETIC ROPE

NOTE: The synthetic rope is not included in the warranty.

The life of the synthetic rope is directly related to the care it receives. The synthetic rope on a new winch or any replacement synthetic ropes should be re-spooled onto the drum under load of a least 450kg before using the winch for the first time for its correct application. Please follow the instructions below on how to stretch the synthetic rope onto the winch drum.

1. The following next steps are recommended to be preformed by a two person team for greater safety.

Note:

- + Never exit the vehicle with a load on the winch synthetic rope.
- + Tensioning the synthetic rope correctly is critical to ensure long product life.
- + Tensioning the synthetic rope will prevent the outer layers of the synthetic rope from pinching and deforming the inner layers.
- + Use care to evenly wrap each layer onto the drum to prevent damage to the synthetic rope.
- + If you attempt to tension the synthetic rope by yourself, be sure to engage the park brake and place the vehicle in park or into gear and switch the vehicle off.

2. Find an open flat and level location that is large enough to expose the length of synthetic rope and enough space for the vehicle.
3. Turn the clutch to the "Disengaged" position. Pull out the synthetic rope till at least eight wraps of rope on the drum. Do not pull further than this as there will not be sufficient synthetic rope left on the drum to proceed safely under load. Once the synthetic rope is spooled out, turn the clutch lever to the "Engaged" position.
4. Attach the clevis hook end to a suitable anchor point and reverse the vehicle until the synthetic rope has limited amount of slack. Remember to engage the parking brake after turning off the vehicle.
5. Connect the remote switch to the winch control box. Wind in the winch until all slack is wound onto the winch drum. Make sure all hands and loose clothing is kept away from the fairlead as injury could occur. Be sure to check that the synthetic rope is winding off the bottom of the drum, as the automatic load holding brake will not function correctly if not winding from the bottom of the drum.
6. Remember to always use a winch dampener when being used with tension on the synthetic rope for recovery or setting purposes.
7. Pass the remote control through the driver's window for the driver of the vehicle to operate. Instruct your assistant to stand to the side of the vehicle away from the winch synthetic rope at least 1.5 times the length of the synthetic rope. Your assistant should signal you if the synthetic rope is winding in correctly by watching the synthetic rope move across the fairlead diagonally as the winch is winding in. Release the park brake while applying moderate brake pedal pressure. Press down on the "IN" button on the remote control. After winching in approx 2 metres, stop winching and let up off the brake pedal and then apply the park brake. This will ensure that there is no load on the winch synthetic rope. Exit the vehicle and inspect the winch to make sure synthetic rope is winding on evenly and not sinking into a lower layer of the synthetic rope. If the synthetic rope is sinking into the lower layer of the synthetic rope on the drum, power the winch "OUT" and repeat this step from the beginning with more brake pedal pressure.
8. When you are happy with the synthetic rope winding on the drum correctly, repeat step 7 until the vehicle is within 2 metre of the anchor point you are using. Slowly let off the brake pedal and then apply the parking brake. This will ensure there is no load on the winch synthetic rope. Exit the vehicle, disconnect the hook of the anchor point you are using. Holding the hook strap supplied, hold tension on the winch synthetic rope and slowly power "IN" the synthetic rope by slowly pulsing the power in on the remote control until the hook is within 1 metre of the fairlead. **DO NOT POWER THE CLEVIS HOOK INTO THE FAIRLEAD** as this will cause damage to the fairlead, clevis hook and or winch synthetic rope. Stop winching in and attach the clevis hook to a suitable anchor point on the vehicle. Once the clevis is suitable attached to the vehicle, power "IN" the remaining slack in the winch synthetic rope by pulsing the power "IN" switch on the remote until there is minimal slack in the winch synthetic rope.

+ SPOOLING

- + Leather gloves must be worn when respooling.
- + Never engage clutch with motor running.

SPOOLING OUT

- + Free spooling is the quickest way to spool out the winch synthetic rope for recovery. Before free spooling, power out enough synthetic rope to remove any tension in the synthetic rope. Disengage the clutch (switch to " Disengage ") and now you can manually spool out the winch synthetic rope using the supplied hook strap to the required length for the winching operation. Always leave 8 wraps on the winch drum at all times when using for recovery operations.

SPOOLING IN UNDER LOAD

- + Never exceed winch's rated line pull.
- + Use care to evenly wrap each layer to prevent damage to the synthetic rope and or winch.
- + Avoid shock loading when spooling. Use the remote control intermittently to take up synthetic rope slack. Shock loading can far exceed the winch and synthetic rope ratings and can cause damage and or injury.
- + It is recommended that a winch dampener is used when the synthetic rope is under load when a recovery operation is needed.

ASSISTED

Have your assistant hold the hook with the hook strap putting as much constant tension on the synthetic rope as possible. Have them walk towards the winch while you control the winch to spool "IN." Release the button when the synthetic rope is 2.4 metres from the fairlead. Tighten up the slack by pulsing "IN" the synthetic rope onto the drum, be careful not to over tighten or damage may occur to the synthetic rope, clevis hook, anchor point, fairlead and winch.

+ PARTS SPECIFICATIONS

- + XTM 12,000lb Heavy Duty Electric Winch
- + Rated Line Pull: 12,000lb (5,443kgs) single-line
- + Motor: 7.2HP/5.4KW, High Performance Parallel Series Wound
- + Remote Control: Remote switch, 3.5m lead
- + Geartrain: 3-Stage Planetary
- + Gear Reduction Ratio: 216:1
- + Clutch (Free Spooling): Rotating Ring Gear
- + Braking Action: Automatic In-The-Drum
- + Drum Diameter/Length: 64 mm x 223mm
- + Rope: 26m of 10mm diameter
- + Fairlead: Aluminium Hawse version
- + Remote Control: Included
- + Recommended Battery: 720CCA minimum for winching
- + Battery Lead: 2 gauge, 1.76m
- + Finish: Black powder coated
- + Overall Dimensions: 549.5mm x 160mm x 253.5mm
- + Mounting Bolt Pattern: 254mm x 114mm
- + Wireless Remote Control: Distance within 25m, frequency 315Hz
- + Wireless Remote Battery Type: 2 x CR2032 included
- + Weight: 26kgs

12000LBS line pull and capacity

Layer Of Rope		1	2	3	4
Rated Line Pull Per Layer	lb	12000	9447	7789	6626
	kg	5443	4285	3533	3005
Cumulative Cable Length	ft	15.2	34.5	58	85.6
	m	4.6	10.5	17.7	26

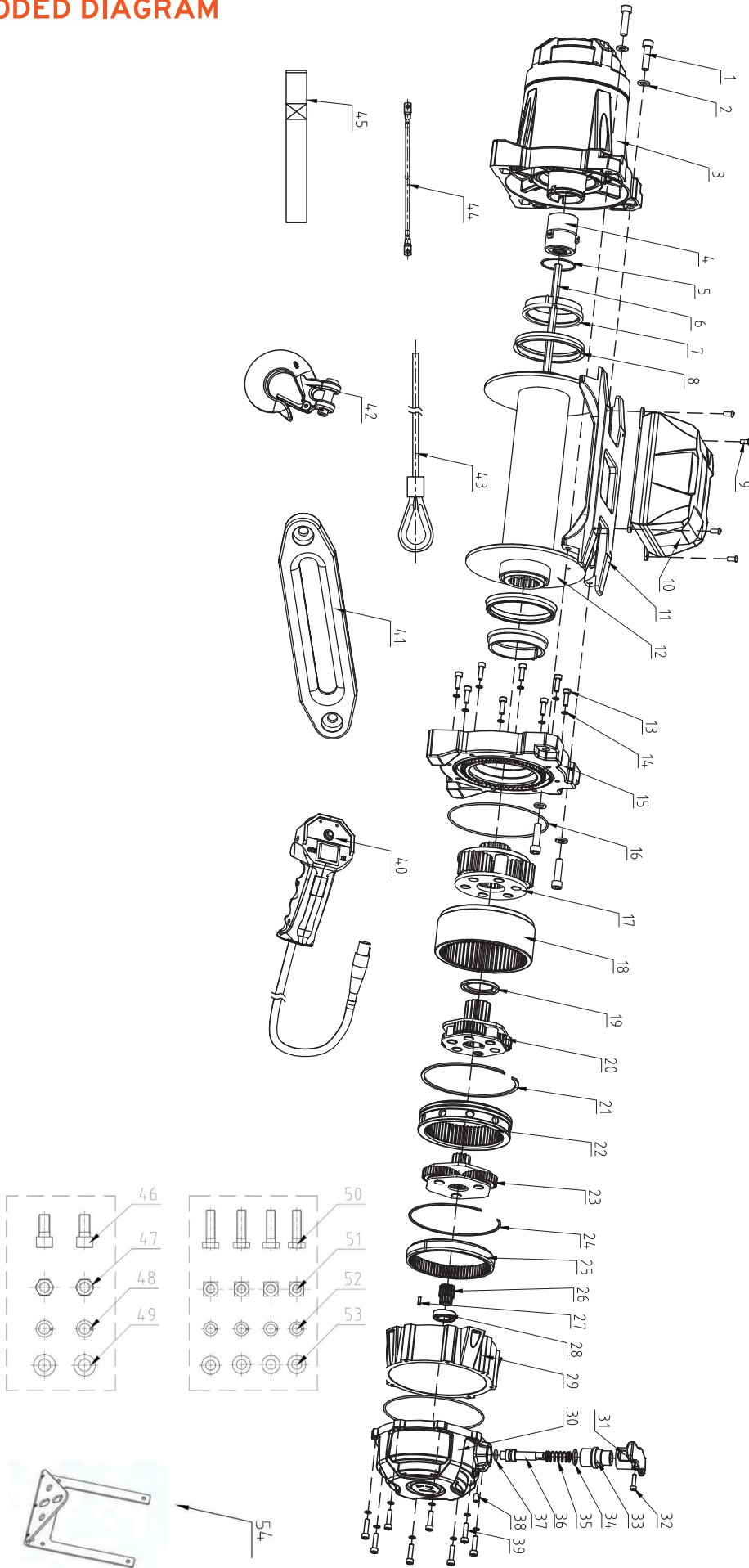
12000LBS line speed and Amp draw (first layer)

Line Pull	lb	0	3000	6000	9000	12000
	kg	0	1361	2722	4082	5443
Line Speed	ft/min	26.4	12.03	8.66	7.28	5.38
	m/min	8.66	3.67	2.64	2.22	1.64
Current	Amps	80	177	268	328	385

+ PARTS LISTING

ITEM NO.	DESCRIPTION	QTY	MARK
1	Hexagon socket screw	4	M8 X 25
2	Spring washers	4	φ8 X 2.2
3	Electrical components	1	
4	Brake components	1	
5	Spring retainer ring	1	
6	Drive shaft	1	
7	Sliding bearing	2	
8	Sealing washer	2	
9	Cross grooved disc head screw	4	M5 X 22
10	Control box assembly	1	
11	Tie bar plate	1	
12	Drum assembly	1	
13	Hexagon socket cylindrical head screw	8	M5 X 16
14	Spring washers	16	φ5
15	Gear box bracket	1	
16	O-ring	2	
17	Tertiary planetary wheel assembly	1	
18	Fixed gear ring (57 teeth)	1	
19	Plastic washer	1	
20	Secondary planetary wheel assembly	1	
21	Gasket	1	
22	Secondary movable gear ring	1	
23	First planetary gear assembly	1	
24	Small clip	1	
25	Small ring gear	1	
26	First class hexagonal center wheel	1	
27	Cylindrical pin	1	
28	Bearing	1	
29	Gear sleeve	1	
30	Gear end cover	1	
31	Clutch handle	1	
32	Hexagon socket screw	1	M4 X 16
33	Clutch	1	
34	O-rings	1	
35	Clutch spring	1	
36	Clutch lever	1	
37	O-rings	1	
38	Set screw	1	M6 X 10
39	Hexagon socket cylindrical head screw	8	M5 X 20
40	Handle components	1	
41	Fairlead	1	
42	Claw hook	1	
43	Synthetic rope assembly	1	
44	Cable	1	
45	Hook strap	1	
46	Hexagon socket cylindrical head screw	2	M12 X 25
47	Hexagonal nut	2	M12
48	Spring washers	2	φ12 X 3.1
49	Washer	2	φ12 X φ24 X 2
50	Outer hexagon screw	4	M10 X 30
51	Square nut	4	M10 X 16 X 8.3
52	Spring washers	4	φ10 X 2.6
53	Washer	4	φ10 X φ20 X 2
54	Extra control box bracket	1	

+ EXPLODED DIAGRAM



+ MAINTENANCE

- + Inspect all electrical components frequently to ensure clean and secure connections.
- + This item is exposed to the elements; moisture can accumulate inside the winch when exposed to rain, pressure cleaners, steam cleaning, river crossings and the common car wash. To prevent corrosion, it is best practice to use the winch once a month as a minimum even if to unwind a few metres and wind back in, the heat generated will help to dissipate any condensation.
- + Regularly check all bolts and fittings are tight and secure, these could work loose under hard working conditions.
- + Under normal conditions, the winch should not require servicing. If you use the winch regularly you should consider a servicing schedule to maximise the life and performance of the winch.
- + If the winch is fully submerged in water, at the earliest possible convenience, the winch cable should be unspooled for a few metres and the winch operated under a slight load. The winch could be attached to a tree or similar with the appropriate connections and the brake applied slightly for the load. The heat generated will assist to disperse any moisture.
- + Check the winch cable before use for any signs of wear, if wear signs are apparent replace before use.
- + Wind cable neatly on the drum, after each use of the winch, the cable should be unspooled to the point of where the cable lays neatly on the drum and respoiled under load.

+ TROUBLE SHOOTING CHECK LIST

WINCH DOES NOT OPERATE UNDER NORMAL CONDITIONS

- + Vehicle battery should be in good working order and fully charged.
- + Check that all wiring is correct as per the diagrams in this manual.
- + Check that all electrical connections and cables are in good condition, free from corrosion and connected properly.
- + Check to see if there is power getting to the motor from the battery.
- + Earth power cable should be connected directly to the earth terminal on the battery not the vehicle chassis.
- + Only the power cables supplied with this winch should be used, any other cable may not be of a high enough specification to supply sufficient power to the winch.
- + Check that the hand control switch is not damaged and functioning properly.
- + Check the battery in wireless remote controller.
- + Check that the control box socket is in good condition.

WINCH WORKS IN WRONG DIRECTION

- + Check that the cable is spooled in right direction on the drum.
- + Ensure all wiring is correct as per the diagrams in this manual.

WINCH MOTOR GETS TOO HOT

- + Winch should only be operated in 50 second duty cycles and allowed to cool.
- + Check that all electrical connections and cables are in good condition, free from corrosion and connected properly.
- + Only the power cables supplied with this winch should be used, any other cable may not be of high enough specification to supply sufficient power to the winch.

WINCH OPERATES SLOWLY

- + Vehicle battery should be in good working order and fully charged, vehicles charging system should be supplying good charge to battery.
- + Check that all electrical connections and cables are in good condition, free from corrosion and connected properly.

WINCH MOTOR OPERATES BUT THE CABLE WILL NOT SPOOL IN

- + Ensure clutch handle is in the engaged position.

WINCH ONLY OPERATES IN ONE DIRECTION:

- + Check that all electrical connections and cables are in good condition, free from corrosion and connected properly.
- + Check that all wiring is correct as per the diagrams in this manual.
- + Check that the hand control switch is not damaged and functioning properly.
- + Check that the control box socket is in good condition.

WINCH BRAKE IS NOT WORKING OR HOLDING A LOAD:

- + Check that the cable is spooled on the drum in the correct direction

WINCH SOLENOID IS NOT WORKING OR CLICKING RAPIDLY

- + Check that the thin earth cable is connected correctly as per the diagram in this manual.
- + Check that all electrical connections and cables are in good condition, free from corrosion and connected properly.
- + Ensure all wiring is correct as per the diagrams in this manual.
- + Check that your battery is in good condition and fully charged.

WINCH WILL NOT ENGAGE IN FREESPOOL

- + Ensure that the winch is mounted on flat surface so all components (motor, drum & gearbox) are aligned.
- + Check all winch mounting bolts and ensure that they are tight and secure.

+ LIMITED PRODUCT WARRANTY

Our product is guaranteed to be free from quality and manufacturing defects for a period of 12 months.

If your product becomes defective during this period, SRGS PTY LTD will offer you either a replacement, credit or refund where a product is faulty; wrongly described; different from the sample shown to you or do not do what they are supposed to do.

This warranty will not cover substantially modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

To claim the warranty, take the product to the front Service Desk of your nearest store of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim. Should you not be able to provide proof of purchase with a receipt or bank statement, identification showing name, address and signature may be required to process your claim.

Any expenses relating to the return of your product to the store will normally have to be paid by you. For online store purchases, SRGS PTY LTD will pay for the return freight for any product assessed as having a major failure.

The benefits to the customer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods or services to which this warranty relates.

This warranty is provided by SRGS PTY LTD, 6 Coulthards Avenue, Strathpine QLD 4500, Australia. Phone: 1300 880 764.

+ EXCLUSIONS

THIS WARRANTY WILL NOT APPLY WHERE:

- a) The product has been repaired, altered or modified by someone who is not authorised to repair;
- b) SRGS cannot establish any fault in the product after test or inspection;
- c) The product has been used other than for the purpose for which it was designed;
- d) The defect in the product has arisen due to the customer's failure to properly install, use or maintain the product;
- e) The product has been subject to abnormal conditions, including environment, temperature, water, fire, humidity, pressure, stress or similar; or
- f) The defect has arisen due to abuse, misuse, neglect or accident.

THE WARRANTY DOES NOT EXTEND TO:

- a) Damage or defects caused by normal wear and tear;
- b) Wire cables or synthetic ropes; or
- c) Commercial/Industrial or hoisting applications.

PLU: 602253
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Manufactured and packaged for
SRGS PTY LTD
ABN 23 113 230 050
6 Coulthards Avenue
Strathpine QLD 4500, Australia
MADE IN CHINA