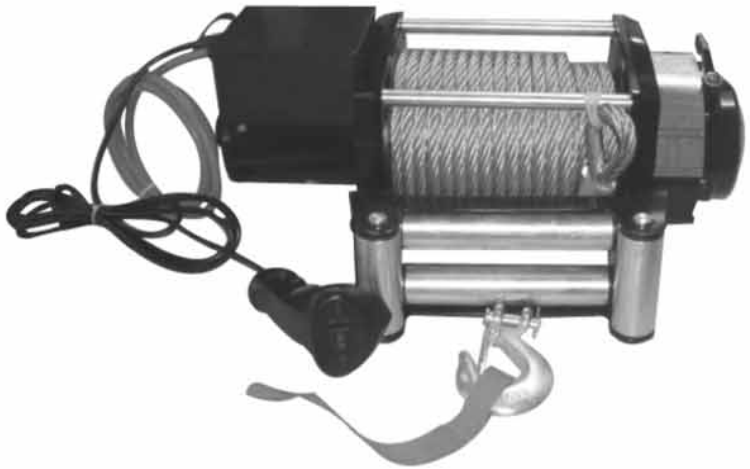
Electric Winch

TREX-JH17000



TREX

VEHICLE RECOVERY ELECTRIC WINCH

SAFETY PRECAUTIONS

The operating personnel shall be well trained.
The user shall ensure that the operating personnel given necessary training.

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 handing 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 if 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 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 respooling. To respool 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 lop through your hand and do not approach the winch too closely.
- Turn off the winch and repeat the procedure until all the cable except 1mis 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 the instruction manual may present a risk of personal injury.*

For futther information contact the distributor on the end cover.

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 to the centre 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, 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 sling or chain of suitable strength.

5. Observe your winch while winching, if possible while standing at a safe distance. Stop the winching process every meter or so to assure the cable is not pulling up in one corner. Jamming the cable can break your winch.

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

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 the chassis 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 inch, it is desireable 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.

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

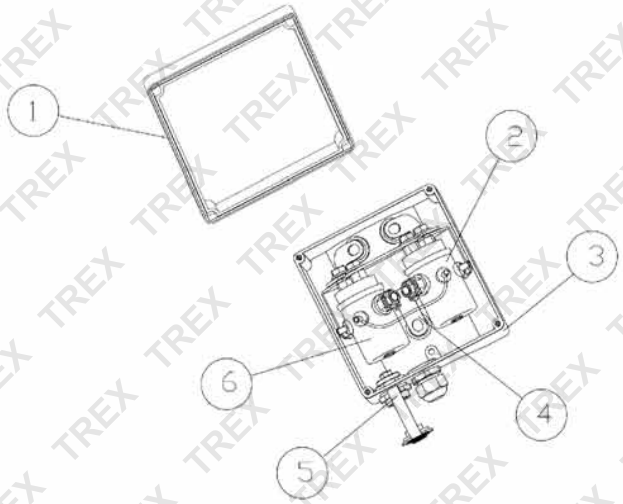
14. Apply blocks to wheels when vehicles are on an incline.

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.

VEHICLE RECOVERY ELECTRIC WINCH

SOLENOID BOX ASSEMBLY(12V/24V) PARTS LIST

Item No.	Part No.	Description	Qty
1	S0107/08-30	Cover-Solenoid Ass'y	1
2	S0107/08-34	Solenoid-Power in 12v	1
	S0107/08-34A	Solenoid-Power in 24v	1
3	S0107/08-35	Cover-Solenoid Ass'y	1
4	S0107/08-36	U type strap-copper	1
5	S0107/08-37	Female connector Ass'y	1
6	S0107/08-38	Solenoid-Power out 12v	1
	S0107/08-38A	Solenoid-Power out 24v	1

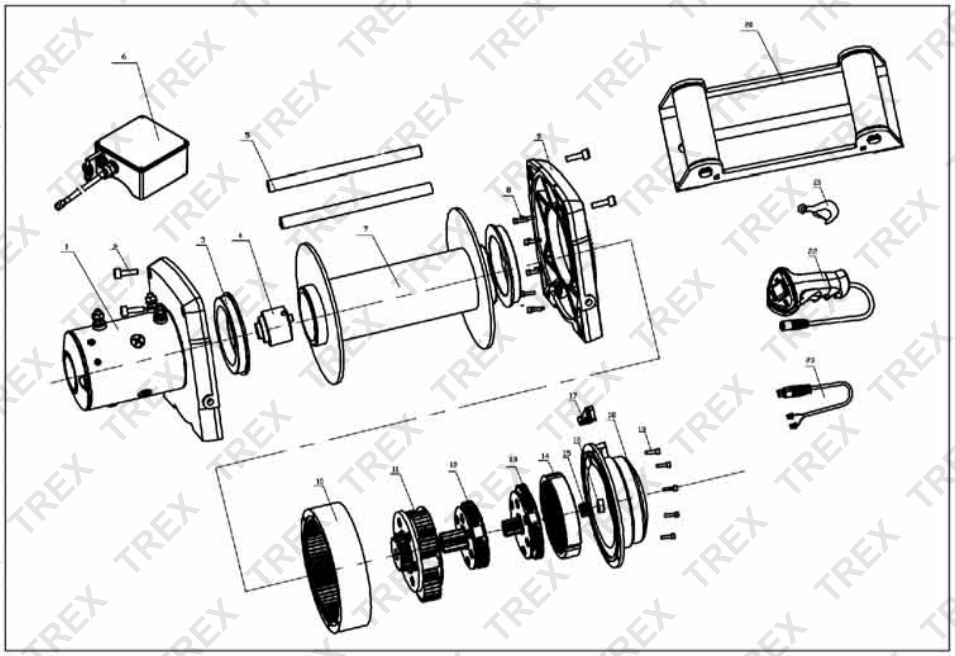


For futther information contact the distributor on the end cover.

15000F WINCH PARTS LIST

Part #	Description	Qty
1	Tandem motor	1
2	Screws with six angles inside m8*25	4
3	Winch bearing	2
4	Brake eqipment	1
5	Fixed connected pole	2
6	Electrical control box	1
7	Winch	1
8	Screws with six angles inside m6*20	8
9	Gear box	1
10	Packing of gear box	1
11	Planet gear 1 general equipment	1
12	Planet gear 2 general equipment	1

Part #	Description	Qty
13	Planet gear 3 general equipment	1
14	Inside gear	1
15	Connected gear 4	1
16	Oiled bearing	1
17	Handle equipment	1
18	Flat behind the gear box	1
19	Screws with six angles inside m6*15	8
20	Block–rope stent of genreal equipment	1
21	Sheep hook	1
22	Switch equipment	1
23	Power line	1



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 reared to the se 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 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), 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 locktite will prevent loosening of the screw in arduous conditions. Loctite 7471 primer and 222 thread locker are recommended.

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

18. Do not drive your vehicle to assist the winch the 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.

Note:When steel rope turns to be rusty,we hereby suggest you stop using that; when one of the steel wire is broken, we also advise you give up the steel rope.

- The user shall initiate movements of the load with the lowest speed. The rope shall be tightered and shall not be in the slack-condition worken the load movement begins.
- Do not try to mov fixed or structed load
- Excessive inching shall be avoid.

INSTALLATION

MOUNTING YOUR WINCH

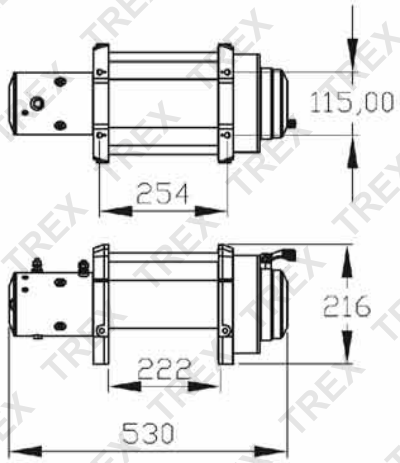
1a) The winch is to be mounted into a suitable steel mounting frame using the 4 point foot mounting system in either a horizontal or vertical plane.
b) It's very important that the winch be mounted on a flat surface so that the three sections(motor, cable drum and gear housing) are properly aligned.
c) Before commencing installation ensure the mounting facility being used is capable of withstanding the winches rated capacity.
d) 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 airbag equipped vehicle.

2. Winch mounting frames and /or Frontal Protection systems are suggested to suit most popular vehicles. Winch frames are packaged with detailed fitting instructions.

3. Should you wish to manufacture your own mounting plate the dimensions below will assist. A steel mount plate 6mm thick is recommended. Fasteners should be steel high tensile grade 5 or better. A poorly designed mount may void warranty.

4. The winch should be secured to the mounting with 3/8″ UNC×1-1/4″ stainless steel bolts and spring washers provided.

5. 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 high temperature lithium grease at the time of assembly. Under normal conditions factory lubrication will surfice. 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 cable by rolling it along the ground, to prevent kinking. Remove old cable and observe the manner in which it is attached the cable drum flange.

VEHICLE RECOVERY ELECTRIC WINCH

16500LBS FEATURES AND SPECIFICATIONS

Single Line Rated Pull	16500Lb(7425kg)
Motor	2.8hp/2.1kw,Permanent
Control	Remote switch, 9.7ft(3.0m) lead
Gear Train	3 Stage Planetary
Gear Reduction Ratio	318:1
Braking Action	Automatic In-The-Drum
Drum Size	Diameter 3.5″ (88mm) Length 10.5″ (266mm)
Cable	91ft of 25/64″ diameter(28m of 12mm diameter)
Fairlead	4-Way Roller Fairlead
Remote Control	Not Included
Battery Leads	2 gauge,72″ (1.83mm)
Finish	Black
Weight	G.W.118 lbs (53kg)
Overall Dimensions	(L×W×H)(530×216×220mm)
Mounting Bolt Pattern	10.00±0.015″×4.50±0.010″ (254×115mm)
Package Size	(L×W×H)(576×262×270mm)

16500LBS LINE SPEED AND AMP DRAW(FIRST LAYER)

Line Pull(lbs./kg)	Line Speed FPM(m/min)	Motor (Amps)
0	21.0 ft (6.4m)	75
4000(1814)	12.4 ft (3.8m)	220
8000(3629)	10.4 ft (3.2m)	280
12000(5443)	8.5 ft (2.6m)	330
16500(7425)	5.5 ft (1.7m)	380

16500LBS LINE PULL AND CABLE CAPACITY

Layer	Rated Line Pull (lbs / kg)	Tatal Rope On Drum (ft / m)
1	16500(7425)	17.2 (5.3)
2	12100(5445)	38.0 (11.7)
3	9940(4473)	62.1 (19.1)
4	6880(3096)	91.0 (28.0)

17000LBS FEATURES AND SPECIFICATIONS

Single Line Rated Pull	17000Lb(7650kg)
Motor	2.8hp/2.1kw,Permanent
Control	Remote switch, 9.7ft(3.0m) lead
Gear Train	3 Stage Planetary
Gear Reduction Ratio	318:1
Braking Action	Automatic In-The-Drum
Drum Size	Diameter 3.5″ (88mm) Length 10.5″ (266mm)
Cable	91ft of 25/64″ diameter(28m of 12mm diameter)
Fairlead	4-Way Roller Fairlead
Remote Control	Not Included
Battery Leads	2 gauge,72″ (1.83mm)
Finish	Black
Weight	G.W.118 lbs (53kg)
Overall Dimensions	(L×W×H)(530×216×220mm)
Mounting Bolt Pattern	10.00±0.015″×4.5±0.010″ (254×115mm)
Package Size	(L×W×H)(576×262×270mm)

17000LBS LINE SPEED AND AMP DRAW(FIRST LAYER)

Line Pull(lbs./kg)	Line Speed FPM(m/min)	Motor (Amps)
0	21.0 ft (6.4m)	80
4000(1814)	12.4 ft (3.8m)	220
8000(3629)	10.4 ft (3.2m)	280
14000(6300)	7.15 ft (2.2m)	365
17000(7650)	5.2 ft (1.6m)	390

17000LBS LINE PULL AND CABLE CAPACITY

Layer	Rated Line Pull (lbs / kg)	Tatal Rope On Drum (ft / m)
1	17000(7650)	17.2 (5.3)
2	12100(5445)	38.0 (11.7)
3	9940(4473)	62.1 (19.1)
4	6900(3105)	91.0 (28.0)

20000LBS FEATURES AND SPECIFICATIONS

Single Line Rated Pull	20000Lb(9000kg)
Motor	3.2hp/2.4kw,Permanent
Control	Remote switch, 9.7ft(3.0m) lead
Gear Train	3 Stage Planetary
Gear Reduction Ratio	318:1
Braking Action	Automatic In-The-Drum
Drum Size	Diameter 3.5″ (88mm) Length 10.5″ (266mm)
Cable	85ft of 13/32″ diameter(26m of 13mm diameter)
Fairlead	4-Way Roller Fairlead
Remote Control	Not Included
Battery Leads	2 gauge,72″ (1.83mm)
Finish	Black
Weight	G.W.118 lbs (53kg)
Overall Dimensions	(L×W×H)(530×216×220mm)
Mounting Bolt Pattern	10.00±0.015″×4.5±0.010″ (254×115mm)
Package Size	(L×W×H)(576×262×270mm)

20000LBS LINE SPEED AND AMP DRAW(FIRST LAYER)

Line Pull(lbs./kg)	Line Speed FPM(m/min)	Motor (Amps)
0	21.1 ft (6.5m)	80
6000(2700)	12.0 ft (3.7m)	230
12000(5443)	8.8 ft (2.7m)	320
16000(7200)	5.8 ft (1.8m)	370
20000(9000)	4.6 ft (1.4m)	420

20000LBS LINE PULL AND CABLE CAPACITY

Layer	Rated Line Pull (lbs / kg)	Tatal Rope On Drum (ft / m)
1	20000(9000)	16.3 (5.0)
2	15400(6930)	36.4 (11.2)
3	10800(4860)	60.0 (18.4)
4	7280(3276)	85.0 (26.0)

For futther information contact the distributor on the end cover.

VEHICLE RECOVERY ELECTRIC WINCH

Please note that our winch should apply to DC.12V & 24V ,12000 lbs winch with the current of 360A, 15000 lbs winch with the current of 375A, 16500 lbs winch with the current of 380A,and the 17000 lbs winch with the current of 390A, and the 20000 lbs winch with the current of 420A, Attention that winch shall be used between 0℃~40℃ and the using humidy shall egual or less than 50%(+40℃) And the last thing that you may care about is our using altitude shall less than 1000 metres.

12000LBS FEATURES AND SPECIFICATIONS

Single Line Rated Pull	12000Lb(5443kg)
Motor	2.0hp/1.5kw,Series Wound
Control	Remote switch, 9.7ft(3.0m) lead
Gear Train	3 Stage Planetary
Gear Reduction Ratio	318:1
Braking Action	Automatic In-The-Drum
Drum Size	Diameter 3.5″ (85mm) Length 10.5″ (266mm)
Cable	91ft of 23/46″ diameter(28m of 11mm diameter)
Fairlead	4-Way Roller Fairlead
Remote Control	Not Included
Battery Leads	2 gauge,72″ (1.83mm)
Finish	Black
Weight	G.W.118 lbs (53kg)
Overall Dimensions	(L×W×H)(530×216×220mm)
Mounting Bolt Pattern	10.00±0.015″×4.50±0.010″(254×115mm)

12000LBS LINE SPEED AND AMP DRAW(FIRST LAYER)

Line Pull(lbs./kg)	Line Speed FPM(m/min)	Motor (Amps)
0	21.0 ft (6.4m)	80
4000(1814)	11.5 ft (3.5m)	200
8000(3629)	8.2 ft (2.5m)	270
12000(5443)	5.6 ft (1.7m)	360

12000LBS LINE PULL AND CABLE CAPACITY

Layer	Rated Line Pull (lbs / kg)	Tatal Rope On Drum (ft / m)
1	12000(5400)	17.8 (5.5)
2	9530(4322)	39.0 (12.0)
3	7920(3590)	65.0 (20.0)
4	5900(2655)	91.0 (28.0)

15000LBS FEATURES AND SPECIFICATIONS

Single Line Rated Pull	15000Lb(6800kg)
Motor	2.4hp/1.8kw,Series Wound
Control	Remote switch, 9.7ft(3.0m) lead
Gear Train	3 Stage Planetary
Gear Reduction Ratio	318:1
Braking Action	Automatic In-The-Drum
Drum Size	Diameter 3.5″ (88mm) Length 10.5″ (266mm)
Cable	91ft of 25/64″ diameter(28m of 12mm diameter)
Fairlead	4-Way Roller Fairlead
Remote Control	Not Included
Battery Leads	2 gauge,72″ (1.83mm)
Finish	Black
Weight	G.W.118 lbs (53kg)
Overall Dimensions	(L×W×H)(530×216×220mm)
Mounting Bolt Pattern	10.00±0.015″×4.50±0.010″(254×115mm)
Package Size	(L×W×H)(576×262×270mm)

15000LBS LINE SPEED AND AMP DRAW(FIRST LAYER)

Line Pull(lbs./kg)	Line Speed FPM(m/min)	Motor (Amps)
0	21.0 ft (6.4m)	75
4000(1814)	12.4 ft (3.8m)	220
8000(3629)	10.4 ft (3.2m)	280
12000(5443)	8.5 ft (2.6m)	330
15000(6800)	6.5 ft (2.0m)	375

15000LBS LINE PULL AND CABLE CAPACITY

Layer	Rated Line Pull (lbs / kg)	Tatal Rope On Drum (ft / m)
1	15000(6800)	17.2 (5.3)
2	11530(5188)	38.0 (11.7)
3	9920(4464)	62.1 (19.1)
4	6700(3015)	91.0 (28.0)

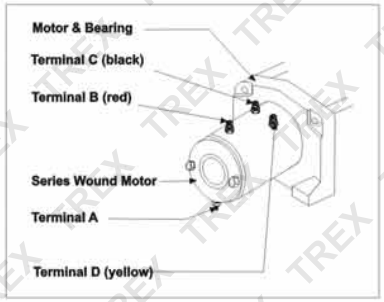
VEHICLE RECOVERY ELECTRIC WINCH

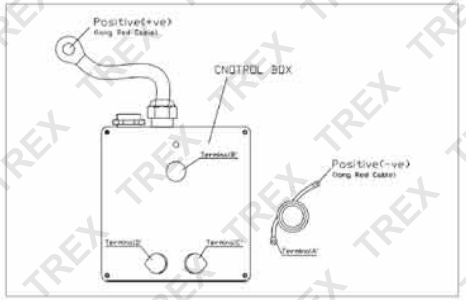
ELECTRICAL CONNECTION

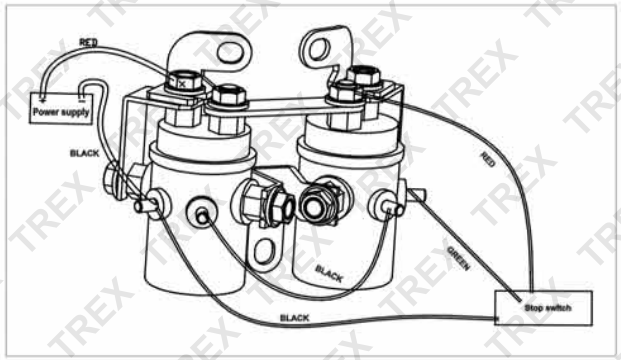
For normal self-recovery work, your existing electrical system is adequate. A fully charged battery and proper connections are essential. Run the vehicle engine during winching operations to keep battery charged.

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

1. Short red cable(B')connecting to the red terminal (B) of the motor.
2. Short black cable with yellow jacket(C') connecting to the yellow terminal(C) of the motor.
3. Short black cable with black jacket(D') connecting to the black terminal (D)of the motor.
4. Thin black cable (A') connecting to bottom terminal (A) of the motor.
5. Long black cable (1.8m), one terminal(A') connecting to the bottom terminal(A) of the motor, and the other terminal negative(-) connecting to negative (-) terminal of battery.
6. Long red cable positive (+) connecting to positive (+) terminal of battery.







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.

For futther information contact the distributor on the end cover.

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 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 inch cable the desired length and connect to an anchor point.
The winch clutch allows rapid uncoiling of the able for hooking into 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 shifter tab to the □OUT□ position. Cable may not be free spooled off the drum.
b) To engage the clutch, move the clutch shifter tab into the □IN□ position. The winch is now ready for pulling.

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.

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:

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. Hever 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 s under power. If the cable should slip or brake, it can suddenly whip back towards the winch, causing a hazzard for anyone in the area. Always stand well to the side while winding.
6. 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 your authorized outlet for technical assistance and repairs.

SPARE PARTS:

A comprehensive range of spare parts is available.

Please kindly contact the distributor on the end cover or the local retailer.

Note:

1. Means of lubricating the steel rope and gear box is by adding lubricating oil.
2. Please take a pulling test every two months when steel rope turns to be rusty. We hereby suggest you stop using

that; When one of the steel rope is broken, we also advise you give up the old one. If you have kept using the braking action for 500 hours,we kindly suggest you check
the devices carefully to see whether it is still in good condition.
3. Press the red round button of the switch, it will stop at once, If you are going to cancel the emergent stop. Just rotate the button in clockwise.
4. Max decibel noise when operating the winch is about 70 DB.

WINCHING CAPACITY

1. This winch has capacity of 12000/15000/16500/17000/20000lbs
2. Pulling capacity is reduced as the increases. Recommended safe loads for various inclines are listed in the table Below:

Rated Line Pull	10%	20%	40%	60%	80%	100%
12000 LB	60240	40800	25800	19920	17040	15360
15000 LB	75300	51000	32250	24900	21300	19200
16500 LB	82830	56100	35474	27390	23428	21120
17000 LB	85340	57800	36549	28220	24138	21760
20000 LB	100400	68000	43000	33200	28400	25599

Note:

1. This guide is recommended for average vehicle rolling loads. Some applications may require a larger winch than indicated.
2. The weight the winch could pull perpendicular to the ground with a single on the first layer of cable on the drum.
3. A 10%grade is a rise of one meter in ten meter.
4. Winch is not intended as a load securing device.

NOTE:

The safety precautions and instructions discussed in this manual can't cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors, which cannot be built into this product, but must be applied by the operator.

1. Please note that limit devices should be connected by the auto battery. Do not try to actust it clockwise is big white counterclock is small.
2. **A.** Winch max pulling capabiting: 12000 / 15000 / 16500 / 17000 / 20000 lbs.
B. Handness of steel wire: 1960 N/mm^2.
3. Please note that the winch could only be pulling forward but vertically.

Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death consult the points below and additionally, the information available at www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognised training course before being given access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example) there is always a small chance of a technical issue that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee or could financially affect the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error considering the points above simply contact the retailer directly for details of their returns policies if required.

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