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SAFE PRECAUTIONS

Warning! Observe safe precautions to ensure yourself and others safe. Improper operations for 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 leathergloves 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 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 all times.

3. Don't Abuse the Cord

- Never carry your winch by the cord or yank it to disconnect it from the switch.
- 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 Start

- Winch clutch should be disengaged when it doesn't work and fully engaged when works.

6. Check Damaged Parts

- check your winch carefully before operating. 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. Respool 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 in the other. Start as far back and in the centre as you can, Walk up to keep 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 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 accessories or attachments which aren't recommended in the manual may present a risk of personal injury.

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 be 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 when motor works.
4. Never connect the hook back to the cable. It may cause cable damaged. Always use a sling or chain of suitable strength.
5. Observe your winch while winching. if possible, standing in a safe distance. Stop the winching process every metre 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 bolt pattern. They must be attached to vehicle frame.
7. The use of a snatch block will help recovery operations by providing a double the winch capacity and a half the winching speed , and the ways 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 bow shackles D is used in conjunction with an approved tree trunk or other enough strong underprop 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. Failing to do this would cause the cable apart from the drum. Serious personal injury and 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 extended winch cable is recommended, it will dampen any back lash should a failure occur.

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

14. Apply block to wheel when vehicle is on an incline.

15. Battery:

- Be sure that the battery is in good condition. Avoid touching battery acid or other containments.
- Always wear eye protection when working around a battery.
- Have the engine running when using the winch. To avoid flattening the battery.

16. Winch Cable

- Be sure that the cable is in a 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 lesser strength..

The life of the cable is directly related to the use and care it receives. Following its first and subsequent uses, a cable must be wound on to the drum under a load of at least 500lbs(230kg) or the outer wraps will draw into the inner wraps and severely damage the cable during winching. The first winch use should be a familiarisation run while in a relaxed, non-recovery situation. Spool out the cable until the red cable mark appears (about five wraps on 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 overtighten. The Loctite will prevent loosening of the screw in aqueous conditions. Loctite 7471 Primer and 222 Threadlocker are recommended.

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 can cause damaging shock loads.

19. Shock loads when the winch is 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.

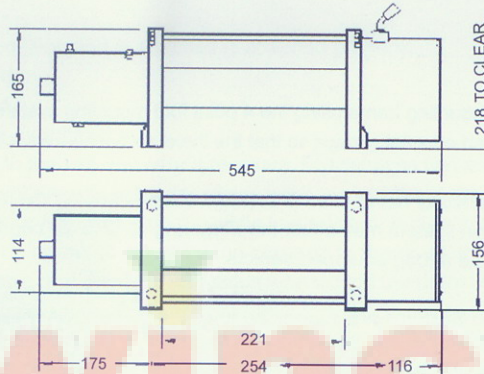
21. Do not use winch in hoisting applications due to required hoist safety factors and features.

22. Do not use the winch to lift, support or other transportation.

INSTALLATION

MOUNTING YOUR WINCH

1. a) 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 should be mounted on a flat surface so that the three sections (motor, cable drum and gear housing) are properly aligned.
c) Before installation, please ensure the mounting facility being used is capable of withstanding the rated capacity of the winch.
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 the 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. Proper designed mount may avoid unnecessary danger.
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 well.



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 suffice. Lubricate cable periodically using light penetrating oil. Inspect for broken strands and replace it if necessary. If the cable becomes worn or damaged it must be replaced.

CABLE INSTALLATION

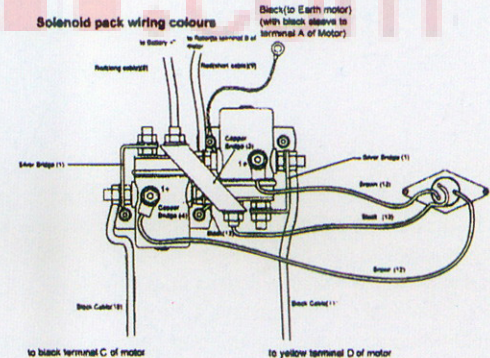
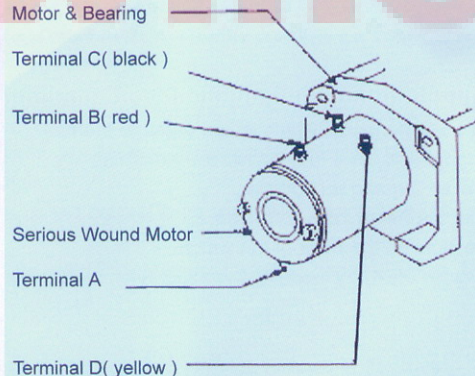
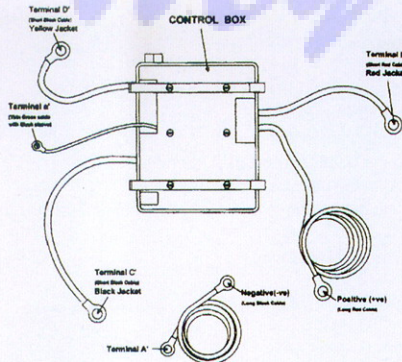
Unwind the new cable by rolling it along the ground. To prevent kinking. Remove old cable and observe the manual in which it is attached to the cable drum flange.

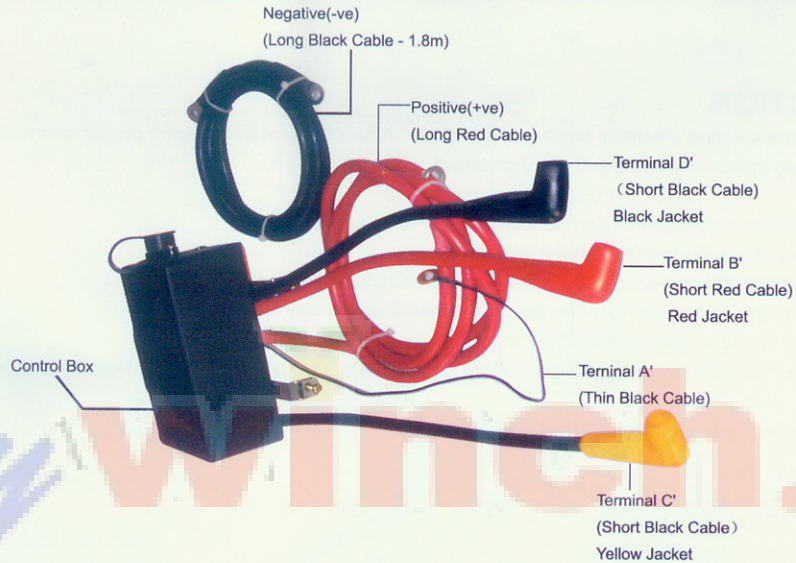
ELECTRIC CONNECTION

For normal self-recovery work, your existing electrical system is adequate. A full 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 a good condition.
2. Be sure battery cables are not drawn taught across any surfaces, which would damage them.
3. Corrosion on electrical connections will reduce performance. Or it may cause a short circuit.
4. Clean all connections, especially for remote control switch and receptacle.
5. In acidic environments, please use an alkaline 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

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 and plan your test in advance. Remember you can hear your winch as you can see it operate. Get to recognize the sound of a light steady pull, a heavy pull, and sound caused by load jerking or jerking or shifting. Soon you will gain confidence in operation your winch and its use will become second to you.

OPERATION

1. Ensure the vehicle is secured 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 hook 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 shifter tab into 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. Before operating, 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 the transmission of your vehicle.
2. Never wrap the cable around the object and hook onto the cable itself. This can cause damage to the object being pulled, kink or fray the cable,
3. Keep hands, clothing and hair away from the drum area and cable when winching.
4. Never use the winch if the cable is frayed or damaged
5. Never allow anyone to stand near the cable, or in line with the cable when it works. If the cable slips or is broken, it can suddenly whip back towards the winch, cause the people injury. So, stand well to the side while winding.
6. Don't leave the switch plugged in when it doesn't work.

CHECK THE WINCH CAREFULLY AND THOROUGHLY BEFORE OPERATION.

MAINTENANCE

It is highly recommended that the winch should 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 distributor 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.

WINCHING CAPACITY

1.This winch has a capacity of 8000/8500/9000/9500/12000lbs.

2.Pulling capacity is reduced as the incline increases.Recommended safe loads for various inclines are listed in the table below:

Rated Line Pull	10%	20%	40%	60%	80%	100%
1500lb	7038	5102	2333	2496	2134	1928
2000lb	10050	6803	6347	2816	2407	2175
2500lb	12563	8503	5388	4160	3556	3213
3500lb	17588	11905	7543	5824	4979	4499
6000lb	30151	20408	12931	9983	8535	7712
8000lb	40160	27200	17200	13280	11360	10240
8500lb	42670	28900	18275	14110	12070	10880
9000lb	42714	28912	18319	14167	12093	10925
9500lb	47690	32300	20425	15770	13490	12160
10000lb	47739	32313	20474	15833	13515	12211
12000lb	60240	40800	25800	19920	17040	15360

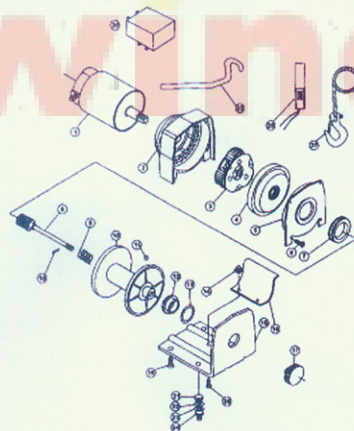
Note

- 1.This guide is recommended for average vehicle rolling roads. Some applications may require a larger winch than indicated.
- 2.The weight the winch could pull perpendicular to the ground with a single lion on the first layer of cable on the drum.
- 3.A10%grade is a rise of one metre in ten meter.
- 4.Winch is not intended as a load securing device.

NOTE

The safe precautions and instructions discussed in this manual can't cover all possible conditions and situation that may occur It must be understood by the operator that common sense and caution aer factors, which cannot be built inot this manual,but must be applied by the user.

Winch Assembly Drawing



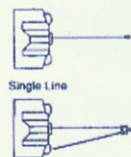


Figure 1

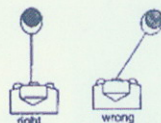


Figure 2

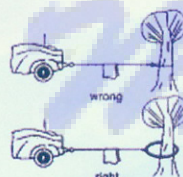


Figure 3

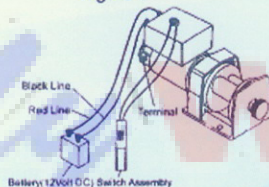


Figure 4



Figure 5

Which Parts List(2000lbs/2500lbs/3000lbs/3500lbs)

Ltem#	Part#	Qty	Description
1	200100	1	Motor
2	200200	1	T-Series Carrier
3	200300	1	Staionary GearHousing
4	200400	1	T-Series Rotator Gear
5	200500	1	Drum Support Plate
6	200600	4	Pan Head Screw M4×12
7	200700	1	Drum Support Bushing
8	200800	1	Clutch
9	200900	1	Spring
10	200001	1	Durm
11	200002	1	Screw M5×5
12	200003	1	T- Series Bushing
13	200004	1	Thick Flat Washer
14	200005	2	Hex Flange Nut M5
15	200006	1	Tension Plate
16	200007	1	T-Series Baseplate
17	200008	1	T-Series F/W Knop
18	200009	1	Elastic Pin 2.5×14
19	200010	2	Hex Skt F Screw M6×16
20	200011	2	Screw
21	200012	2	Screw M8×30
22	200013	2	Washer-Flatφ8
23	200014	2	Lock Washerφ8
24	200015	2	Nut M8
25	200016	1	Handsaver Bar
26	200017	1	Switch
27	200018	1	Cable
28	200019	1	Control Box

8000/8500/9000/12000LBS WINCH PARTS LIST

Ltme	Part No					Description	Qty
No	8000lbs	8500lbs	9000lbs	9500lbs	12000lbs		
1	0109/10-01	0107/08-01	0107/08-01	1007/0/-01	0107/08-01	Gear-box End Cover	1
2	0109/10-02	0107/08-02	0111/12-02	0111/12-02	0115/16-02	Inner Gear	1
3	0107/08-24	0107/08-24	0107/08-24	0107/08-24	0107/08-24	Gear Box-Tube	1
4	0107/08-04	0107/08-04	0107/08-04	0107/08-04	0107/08-04	Clutch Handle Assy	1
5	0107/08-06	0107/08-06	0107/08-06	0107/08-06	0115/16-06	Clutch Gear	1
6	0107/08-07	0107/08-07	0107/08-07	0107/08-07	0107/08-07	Drum Assy	1
7	0107/08-08	0107/08-08	0107/08-08	0107/08-08	0107/08-08	Tie Bar	2
8	0107/08-09	0107/08-09	0107/08-09	0107/08-09	0115/16-09A	Stator(12V)	1
	0107/08-09A	0107/08-09A	0107/08-09A	0107/08-09A	0115/16-09A	Stator(24V)	1
9	0107/08-10	0107/08-10	0107/08-10	0107/08-10	0107/08-10	Carbon Brush Assy	1
10	0107/08-11	0107/08-11	0107/08-11	0107/08-11	0107/08-11	Motor End Cover	1
11	0107/08-12	0107/08-12	0107/08-12	0107/08-12	0115/16-12	Rotor(12V)	1
	0107/08-12A	0107/08-12A	0107/08-12A	0107/08-12A	0115/16-12A	Rotor(21V)	1
12	0107/08-13	0107/08-13	0107/08-13	0107/08-13	0107/08-13	Link Scre M8x25	4
13	0107/08-14	0107/08-14	0107/08-14	0107/08-14	0107/08-14	Motor Base	1
14	0107/08-15	0107/08-15	0107/08-15	0107/08-15	0107/08-15	Nylon Bearing	2
15	0107/08-16A	0107/08-16A	0107/08-16A	0107/08-16A	0107/08-16A	Coupling Joint	1
16	0107/08-25A	0107/08-25A	0107/08-25A	0107/08-25A	0107/08-25A	Brake	1
17	0107/08-18	0107/08-18	0107/08-18	0107/08-18	0107/08-18	Gear-Box Base	1
18	0107/08/-19	0107/08/-19	0107/08/-19	0107/08/-19	0107/08/-19	Mounting Bolt M10x32	4
19	0107/08-20	0107/08-20	0107/08-20	0107/08-20	0107/08-20	Outer Spline	1
20	0107/08-21	0107/08-21	0111/12-21	0111/12-21	0115/16-21	Gear Carrier Assy-outpt	1
21	0107/08-22	0107/08-22	0111/08-22	0111/08-22	0115/08-22	Gear Carrier Assy-intermediate	1
22	0107/08-23	0107/08-23	0111/12-23	0111/12-23	0115/16-23	Gear Carrier Assy-Input	1
23	0107/08-50	0107/08-50	0107/08-50	0107/08-50	0115/16-50	Sun Gear-Input	1
24	0107/08-26	0107/08-26	0107/08-26	0107/08-26	0107/08-26	Bearing	1
25	0107/08-27	0107/08-27	0107/08-27	0107/08-27	0107/08-27	Roller Fairlead	1
26	0107/08-28	0107/08-28	0107/08-28	0107/08-28	0107/08-28	Hook	1
27	0107/08-29	0107/08-29	0107/08-29	0113/14-29	0113/14-29	Wier rope	1

Solenoid Sox Box Assembly(12V/24V)Parts List

Ltem#	Part#	Description	Qty
1	S0107/08-30	Cover-ySolenoid Ass' y	1
2	S0107/08-31	Cable(Black 0.75mm;to the battey "+")	1
3	S0107/08-32		1
4	S0107/08-33	0.425m short black Clab with yellow terminal sleeve	1
5	S0107/08-34	Bracket	1
6	S0107/08-35	Screw M5×12	1
7	S0107/08-36	Solenoid-Powerin 12v	1
	S0107/08-36A	Solenoid-Powerin 24v	1
8	S0107/08-37	0.425m short red Cable	1
9	S0107/08-38	1.8m long red Cable	1
10	S0107/08-39	Green Cable with black sleeve(0.75mm ² ×0.45m;earth)	1
11	S0107/08-40	Strap-Copper	1
12	S0107/08-41	U type strap-copper	1
13	S0107/08-42	Solenoid-power in 12v	1
	S0107/08-42A	Solenoid-power in 12v	1
14	S0107/08-43	0.425m short black Clad with yellow terminal sleeve	1
15	S0107/08-44	Cable(Red0.75mm ² ×25mm;Power out)	1
16	S0107/08-45	Female connector Assy	1

