



# Ramsey Winch Company OWNER'S MANUAL

## Model REP 9.5e Front Mount Electric Winch 12 volt available

Layer of Cable		1	2	3	4
Rated Line Pull Per Layer	(lbs)	9,500	7,700	6,500	5,700
	(kg)	4,310	3,490	2,950	2,590
Cumulative Cable Capacity Per Layer 5/16" (8mm) dia. Cable	(ft)*	15	35	60	95
	(m)*	4	10	18	28

First Layer Line Pull	(lbs)	NO LOAD	2,000	4,000	6,000	8,000	9,500
	(kg)		900	1,810	2,720	3,620	4,310
Line Speed First Layer	(FPM)	20	16	11	7	5	3
	(MPM)	9.1	4.8	3.3	2.1	1.5	0.9
Amp Draw	12V	99	170	250	315	370	420

\* Depends on cable being uniformly wound onto drum. Ramsey performance data is compiled from actual winch testing.

### Congratulations

You have purchased the finest winch available in its service class. The REP 9.5e winch features a highly efficient 3 stage planetary gear set. It utilizes a series-wound D.C. motor. A safe positive clutch allows free spooling for quick cable deployment. An automatic load-holding brake is designed to hold the full rated capacity of the winch.

This winch was designed and manufactured to provide you with the utmost in utility. As with any device that combines power and movement in its use, there are dangers if improperly used. At the same time, there are easier and faster ways for getting the job done if certain precautions are taken first.

Please read this manual carefully. It contains useful ideas in obtaining the most efficient operation from your Ramsey Winch and safety procedures you need to know before beginning use. When you follow our guidelines for operation, your Ramsey Winch will give you many years of satisfying service. Thank you for choosing Ramsey. You will be glad you have one working for you.

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**Please Note: The Ramsey REP 9.5e winch is designed for front mount vehicle use. It is not designed for and should not be used in industrial applications (car haulers/carriers, wreckers, hoisting, etc.), and Ramsey does not warrant it to be suitable for such use. Ramsey makes a separate, complete line of winches for industrial/commercial use. Please contact the factory for further information.**



**CAUTION:** Read and understand this manual before installation and operation of winch. See Safety Precautions.

## Safety Precautions To Guard Against Possible Injury...



A minimum of five wraps of cable around the drum barrel is necessary to hold the rated load. Cable clamp is not designed to hold the load.

- A. Keep yourself and others a safe distance to the side of the cable when pulling under load.
- B. Don't step over a cable, or near a cable under load.
- C. Use supplied hook strap when handling hook for spooling wire rope.
- D. Don't move the vehicle to pull a load on the winch cable. This could result in cable breakage.
- E. Use a heavy rag or gloves to protect hands from burrs when handling winch cable.
- F. Apply blocks to wheels when vehicle is on an incline.
- G. Winch clutch should be disengaged when winch is not in use and fully engaged when in use.
- H. Modification, alteration or deviation to the winch should only be made by Ramsey Winch Company.
- I. Keep the duration of your pulls as short as possible. If the motor becomes uncomfortably hot to the touch, stop and let it cool for a few minutes. Do not pull more than one minute at or near rated load. Do not maintain power to the winch if the motor stalls. Electric winches are for intermittent usage and should not be used in constant duty applications.
- J. Disconnect the remote control switch from the winch when not in use. A Ramsey Part No. 282053 safety on-off switch in your vehicle is recommended.
- K. Note: Do not use winch in hoisting applications due to required hoist safety factors and features.
- L. Do not exceed maximum line pull ratings shown in tables. Shock loads must not exceed these ratings.
- M. To respool correctly, it is necessary to keep a slight load on the cable. This is accomplished by (wearing gloves) holding the cable with one hand and the remote control switch with the other, starting as far back and in the center as you can, walking 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 a few feet 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 using supplied hook strap.



### Tips for Safe Operation

Don't underestimate the potential danger in winching operations. Neither should you fear them. Do learn the basic dangers and avoid them.

The uneven spooling of cable, while pulling a load, is not a problem, unless there is cable pileup on one end of drum. If this happens, reverse the winch to relieve the load and move your anchor point further to the center of the vehicle. After the job is done you can unspool and rewind for a neat lay of the cable.

Store the remote control switch inside your vehicle where it will not become damaged. Inspect it before you plug it in.

When ready to begin spooling in, plug in remote control switch with clutch disengaged. Do not engage clutch with motor running.

Never connect the hook back to the cable. This causes cable damage. Always use a sling or chain of suitable strength as shown in the illustrations.

Observe your winch while winching, if possible, while standing at a safe distance. If you use vehicle drive to assist, stop and get out every few feet to assure the cable is not piling up in one corner. Jamming cable can break your winch.

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

When double lining during stationary winching, the winch hook should be attached to the chassis of the vehicle.

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 (remember, you must leave 5 wraps min. on the drum). If this is not practical, use a snatch block and double line arrangement (see illustration).

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

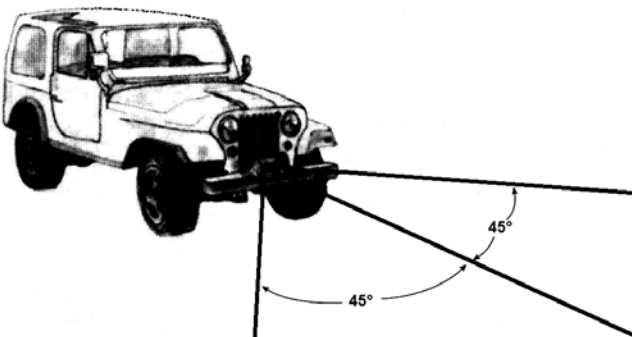
## Techniques of Operation

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 hear your winch as well as 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 with you.

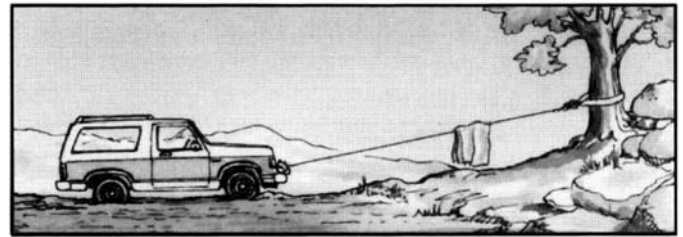
Your winch will not only pull your vehicle up or ease your vehicle down a steep grade, it will also pull another vehicle or a load while your vehicle is anchored in a stationary position. The following sketches show you a few techniques.

When pulling a heavy load, place a blanket, jacket or tarpaulin over the cable five or six feet from the hook. It will slow the snap back in the event of a broken cable. Also open the vehicle hood for additional protection.

Use the vehicle wheel power to help the winch, but don't overtake the winch line. Plan your pull. You can't always hook up and pull out in one step. Examine all the areas for anchoring possibilities as well as leverage situations, direction and goal.



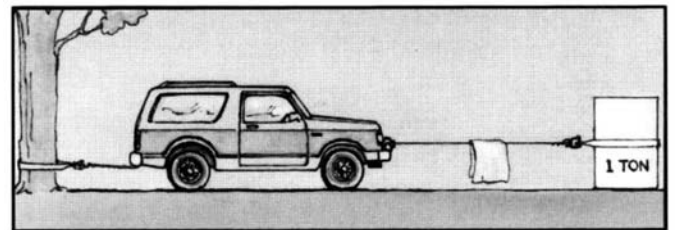
**Winches equipped with cable guide fairleads can pull from several directions. Pull from an angle only to straighten up the vehicle—otherwise you can damage structural members or other parts of your vehicle and cause excess cable buildup on one end of the winch drum.**



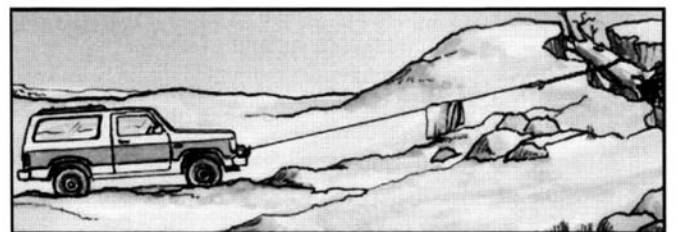
**For basic self-recovery, anchor to a tree or heavy rock. When anchoring to a tree, always use a tree trunk protector.**



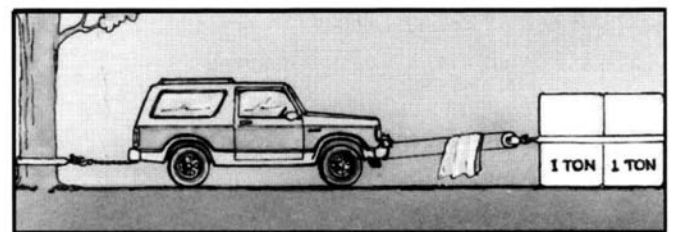
**Stakes driven in solid earth and chained together make a good anchor point for self-recovery when no solid anchor point is available.**



**For a direct pull of 2000 lbs., hitch truck to a tree or solid anchor, and take out of gear.**



**For a solid anchor, bury a log with earth or sand or place it in a deep ravine.**



**To double the pull, use 2-part line with snatch block and tie off to chassis. Take out of gear.**

## Installation

The winches shown in this owner's manual are solely and exclusively designed for vehicle mounted, non-industrial applications. All other applications will void warranty.

**Note:** For specific bull-bar applications, the shifter lever on the winch may need to be repositioned. Refer to pages 6-7 for instructions in how to do this.

It is very important that the winch be mounted on a flat surface so that the three major sections (the motor end, the cable drum and the gear housing end) are properly aligned. It is recommended that Ramsey kits be used to mount the winch. They are designed to align the winch and distribute up to the full rated load evenly, to avoid possible damage to the winch or vehicle. Note: If recommended mounting is not used, a kit of equal design must be used.

Also available for mounting the REP winches are winch mounting channels:

P/N: 408052 Short 23.63" (black),

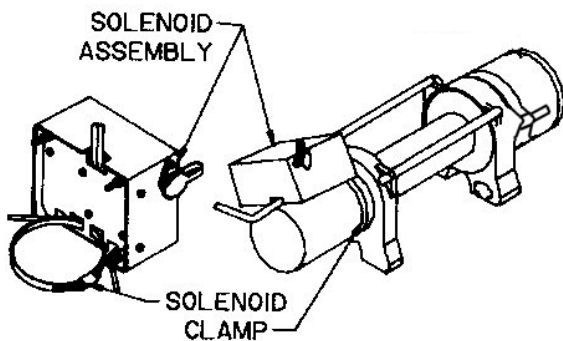
P/N: 408120 Medium 30.00" (black)

P/N: 408101 Long 36.00" (black)

It is recommended that a Ramsey mounting channel be used in all non-Ramsey mountings.

When mounting winch, connect labeled motor leads coming from solenoid assembly to appropriately marked motor terminals. TIGHTEN NUTS ON MOTOR TERMINALS SECURELY (see FIGURE 3). Attach solenoid ground wire to grounding bolt located at bottom of motor (See FIGURE 2). Battery ground wire is already installed to grounding bolt on motor.

As shown in Figure 1, use solenoid clamp to secure solenoid assembly to winch motor. If installing in combo mounting kit, position at about a 45° angle for clearance of lower winch guard tube in kit. Be sure that clamp is clear of motor terminals. TIGHTEN CLAMP SECURELY.

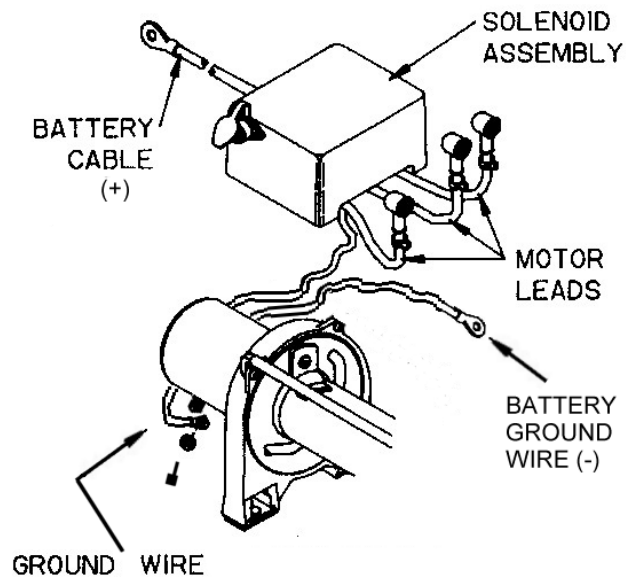


**FIGURE 1**

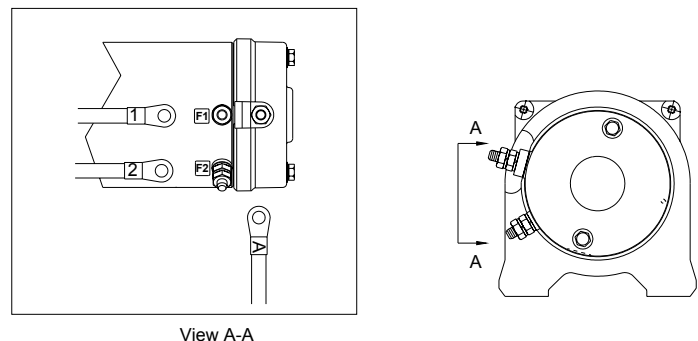
Attach fairlead to channel using hardware furnished with winch (see FIGURE 4). Attach winch to channel. Place (4) flat washers and nuts into pockets of winch mounting feet and thread capscrews with lock washers through mounting holes in channel and into hardware in winch feet.

Substitution of attaching hardware items (bolts, nuts or washers) different from those supplied with your winch and mounting kit can lead to failure causing damage or serious injury (use SAE grade 5 bolts or better and torque to 34 ft-lbs.)

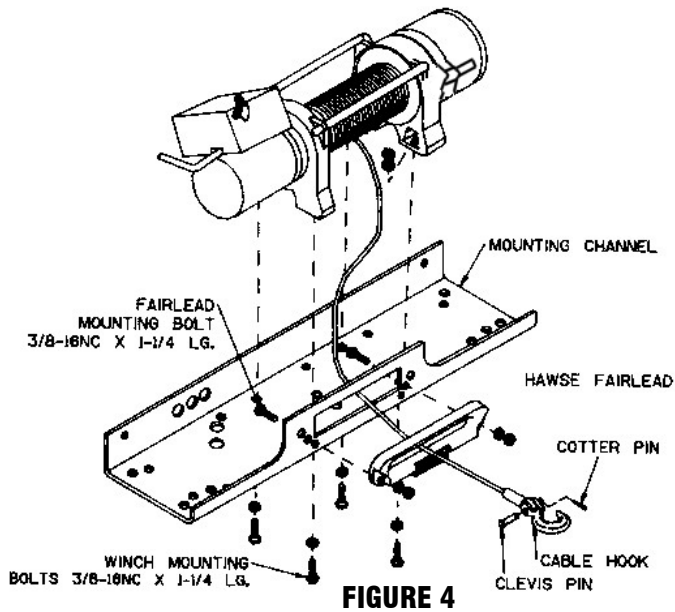
Place end of drum cable through fairlead and attach cable hook. Use clevis pin and cotter pin (see FIGURE 4).



**FIGURE 2**



**FIGURE 3**



## Electrical Connections and Operations

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

The remote control switch is waterproof. It has push button stations on either side. It is designed this way to prevent quick winch reversals, which lead to solenoid failure. Make sure the motor has stopped fully before reversing. To actuate winch simply plug remote control switch into receptacle in black solenoid cover of winch.

Run winch forward and reverse to check connection and to determine winch operating directions. Snap appropriate "IN" and "OUT" disc into proper thumb cavity. The switch is also color coded to aid you in not having to guess at the direction your winch will run. **DO NOT LEAVE SWITCH PLUGGED IN WHEN WINCH IS NOT IN USE.**

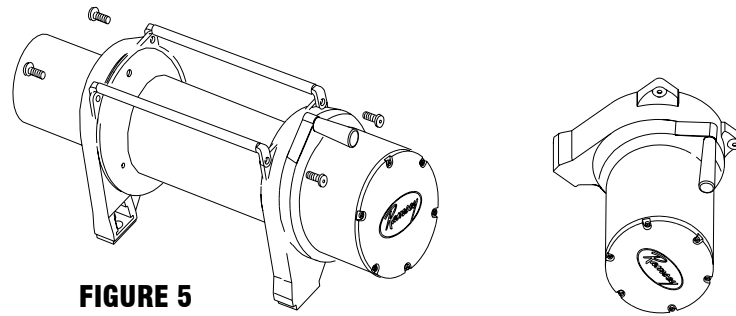
Route red and black battery cables up to battery. **CAUTION: BE SURE BATTERY CABLES ARE NOT DRAWN TAUT ACROSS ANY SURFACES WHICH COULD POSSIBLY DAMAGE THEM.** Connect red cable to positive (+) battery terminal and black cable to negative (-) terminal.

## Repositioning Shifter for Specific Bull Bar Applications

**Note:** The shifter is positioned correctly for most applications. It will only need to be repositioned as necessary for specific bull bar applications.

Refer to the Parts List and Exploded Parts Diagram for your specific winch elsewhere in this owner's manual.

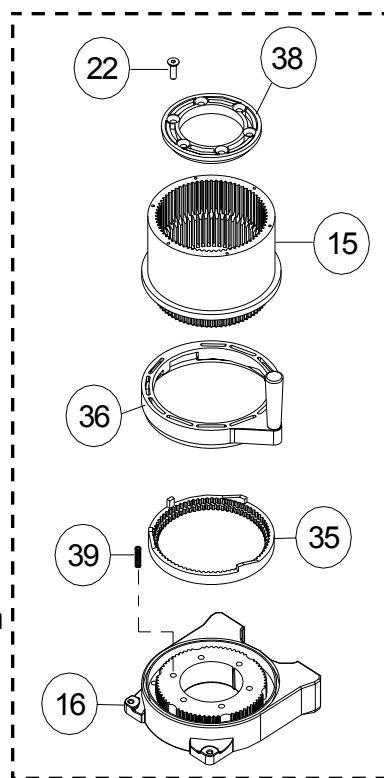
1. Position winch as shown in Figure 5. Remove screws from tiebars. You may be able to loosen the screws at the motor end without removing them. Pull the Gear Housing assembly from the drum and shaft and set it down on the work bench with the Gear Housing Cover up. Remove the drum bushing from the Gear Housing assembly or the end of the drum. Set aside.
2. Remove (6) capscrews from the Gear Housing Cover. Holding the Gear Housing Cover over the Gear Housing assembly, flip it over and set it on the workbench.



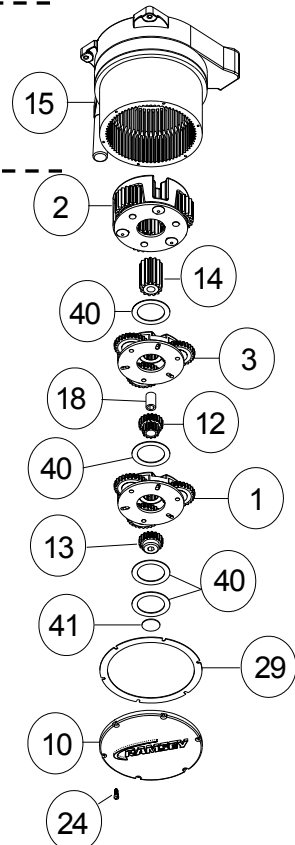
**FIGURE 5**

3. Gently lift the Gear Housing assembly, working the gears, bushings, etc. that are inside the Gear Housing out so that they are left stacked on the workbench. See Figure 7.
4. Turn the Gear Housing assembly over and set on workbench. Remove the Retainer (item #38) by removing six cap-screws (item #22) from Gear End Bearing (item 16). Once the retainer is removed, the Ring Gear (items #15 &31), Cam Ring (item #36), and Locking Ring (item #35) can be lifted off the end bearing.

Remove the six springs (item #39) from the end bearing.



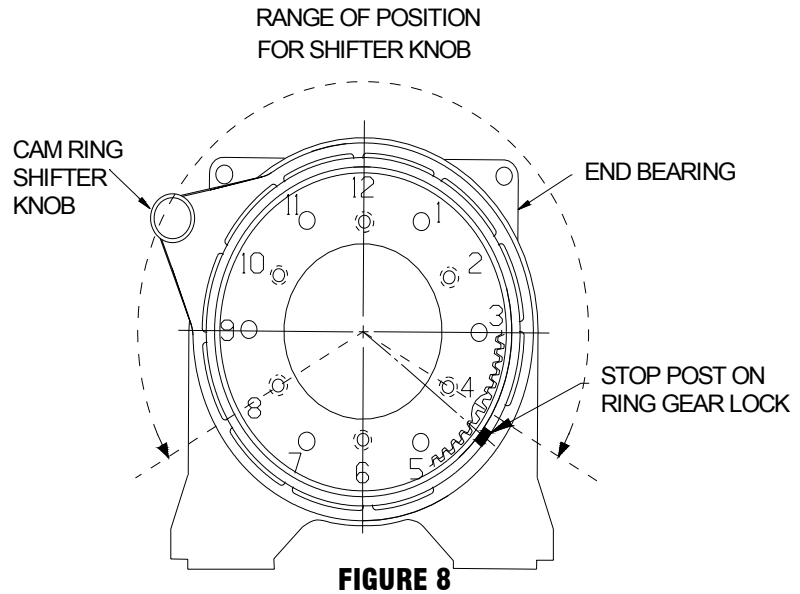
**FIGURE 6**



**FIGURE 7**

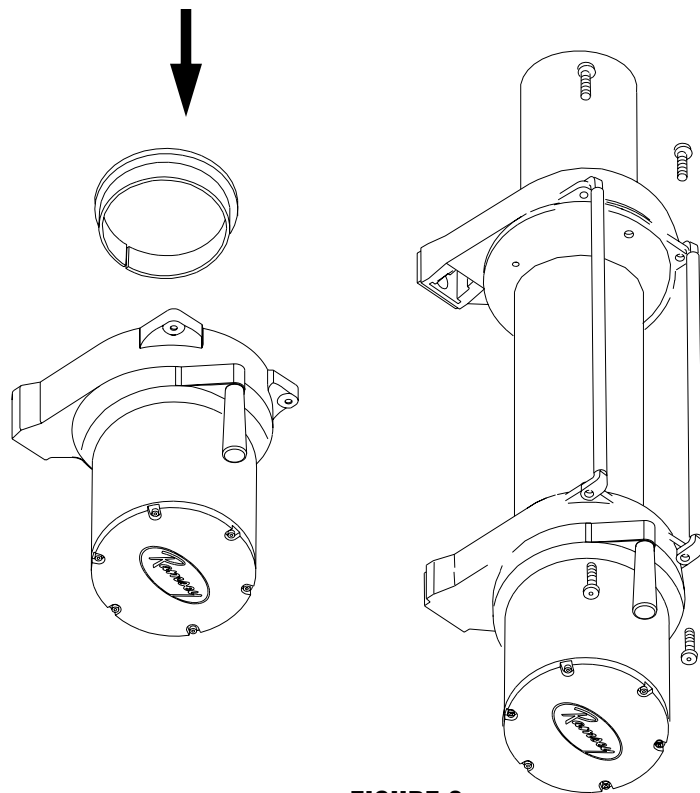
- Determine position shifter knob needs to be for your application. **Note:** Shifter knob cannot be positioned too low or it will interfere with the feet on the Gear End Bearing (see Range of Position in Figure 8).

- To position the shifter knob, place locking ring in end bearing with stop post approximately 180° from where shifter knob needs to be positioned. Place cam ring over locking ring in proper position and confirm that shifter knob will move from engaged to disengaged position without interference. Mark position of stop post on end bearing.



- Remove cam ring and locking ring from end bearing. Insert springs (item #39) into end bearing. When you replace the locking ring (item #35) over the springs, be sure the springs compress down into their recesses, and don't bend sideways.
- Reassemble Gear Housing as shown in Figure 7. Make sure locking ring is positioned with stop post at marked location. The capscrews (item #22) for the retainer should be tightened to 40-45 in-lbs. **Do not over-tighten.**
- Place Gear Housing over the stacked gears, etc. that you removed in step 3. Gently work the housing over the stack, turning it as needed to mesh the planetary gears with the ring gear in the housing. Once they are all in the housing, flip the assembly over. Align the Gear Housing Cover and gasket with the holes in the ring gear. Replace the (6) capscrews that hold the Gear Housing Cover onto the Gear Housing. Tighten securely.
- Move the Shifter to the Disengaged position.
- Turn the Gear Housing over and set it on the work bench with the Gear Housing Cover down. See Figure 9.

- Install the drum bushing into the Gear Housing, confirming that the slot in the bushing is aligned with the key in the end bearing. Pick up the rest of the winch (drum and motor end), and holding the drum, lower the winch onto the gear end. Stab the shaft into the gear end--you may need to turn the drum slightly to get the shaft to go all the way in.
- Place the tiebars on the motor end and gear end and fasten using (4) screws. Tighten securely.
- Once the winch is reassembled, turn it so that it is sitting on its feet. Confirm that the cable will freespool when the shifter is in the Disengaged position. Connect up the winch temporarily and confirm that the cable spools when the shifter is in the Engaged position.



## Maintenance

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 if necessary with Ramsey part number listed in Parts List. If the cable becomes worn or damaged, it must be replaced.

Corrosion on electrical connections will reduce performance or may cause a short. Clean all connections especially in the remote control switch and receptacle. In salty environments use a silicone sealer to protect from corrosion.

To minimize corrosion of the internal motor components that may occur due to condensation, power the winch in or out periodically. Energizing the motor will generate heat, which will help dissipate any moisture buildup in the motor. This should be performed at periodic intervals (such as with each oil change to your vehicle). **Note:** Refer to the Troubleshooting Guide if the motor has been submerged.

## Cable Installation

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

Before installing the new cable assembly, make sure end of cable is squarely cut and wrapped with tape to prevent fraying. Form a short 90° bend (approximately 1/2" long) in the end of the cable.

Position the cable drum so that the large 13/32" diameter hole in the motor end drum flange is approximately on the top. Insert the bent end of cable into the 13/32" hole in the drum flange and then carefully run the winch in the "reel in" direction approximately 3/4 revolution until the 1/4" diameter threaded hole in the drum flange is on top. Secure the cable to the drum flange using cable anchor and capscrew shown in the parts drawing. Securely tighten the capscrew, but do not over-tighten.

Wind 5 wraps of cable onto the drum. Winch on the rest of the cable by pulling in a light load to keep the tension constant. Allow the cable to swivel by using a length of chain or a block between the cable hook and the load.

## Operating Instructions

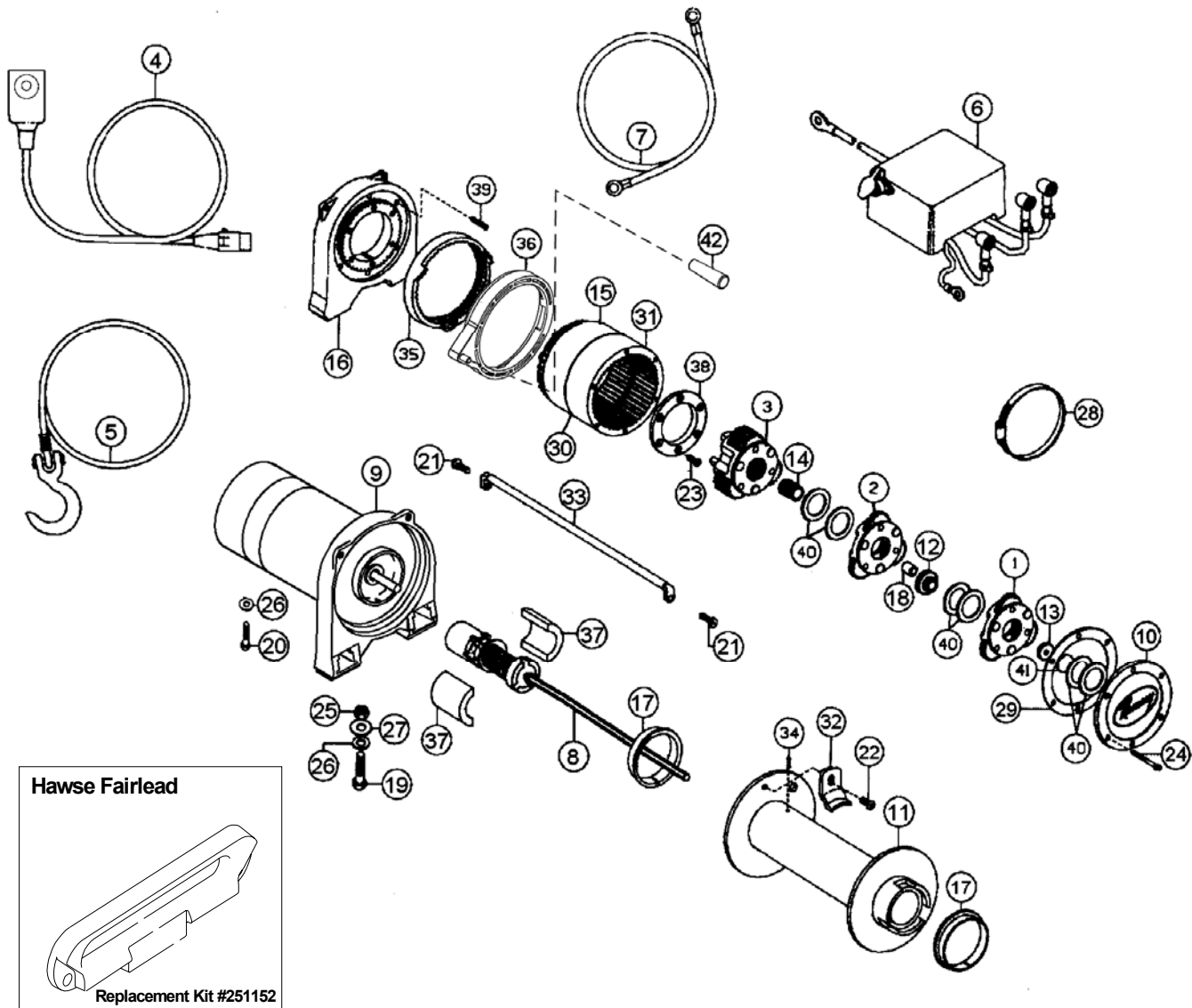
The winch clutch allows rapid unspooling of the wire rope for hooking onto the load or anchor point. The clutch shifter tab is located on the gear-housing end of the winch and operated as follows:

1. To disengage the clutch, move the clutch shifter tab to the "OUT" position. Wire rope may now be free-spooled off the drum.
2. To engage the clutch, move the clutch shifter tab to the "IN" position. The winch is now ready for pulling.



## Troubleshooting Guide

CONDITION	POSSIBLE CAUSE	CORRECTION
<b>MOTOR RUNS IN ONLY ONE DIRECTION</b>	(1) Defective solenoid or stuck solenoid	(1) Jar solenoid to free contacts. Check by applying 12 volts to coil terminal (it should make an audible click when energized).
	(2) Defective remote control switch	(2) Disengage winch clutch, remove remote control switch plug from the socket and jump pins at 8 and 4 o'clock. Motor should run. Jump pins at 8 and 10 o'clock. Motor should run.
<b>MOTOR RUNS EXTREMELY HOT</b>	(1) Long period of operation	(1) Cooling-off periods are essential to prevent overheating.
<b>MOTOR RUNS, BUT WITH INSUFFICIENT POWER, OR WITH LOW LINE SPEED</b>	(1) Insufficient battery	(1) Check battery terminal voltage under load. If 10 volts or less, replace or parallel another battery to it.
	(2) Bad connection	(2) Check battery cables for corrosion; clean and grease.
	(3) Insufficient charging system	(3) Replace with larger capacity charging system.
<b>MOTOR RUNS, BUT DRUM DOES NOT TURN</b>	(1) Clutch not engaged	(1) If clutch engaged but symptom still exists, it will be necessary to disassemble winch to determine cause and repair
<b>MOTOR WILL NOT OPERATE</b>	(1) Defective solenoid or stuck solenoid	(1) Jar solenoid to free contacts. Check solenoid by applying 12 volts to coil terminal (it should make an audible click when energized).
	(2) Defective remote control switch	(2) Disengage winch clutch, remove remote control switch plug from the socket and jump pins at 8 and 4 o'clock. Motor should run. Jump pins at 8 and 10 o'clock. Motor should run.
	(3) Defective motor	(3) If solenoids operate, check for voltage at armature post; replace motor
	(4) Loose connections	(4) Tighten connections on bottom side of hood and on motor
<b>MOTOR WATER DAMAGED</b>	(1) Submerged in water or water from high pressure car wash	(1) Allow to drain and dry thoroughly, then run motor without load in short bursts to dry windings.
<b>CABLE DRUM WILL NOT FREESPOOL OR IS DIFFICULT TO FREESPOOL</b>	(1) Clutch not disengaged	(1) Check clutch operation according to nameplate. Make sure clutch shifter knob is fully at "OUT" position.
	(2) Winch not mounted squarely causing end bearing to bind drum	(2) Check mounting to see that installation instructions on page 4 have been followed.
	(3) Some or all of the (6) 414861 flat head capscrews attaching the 479007 ring gear retainer are too tight	(3) Remove the gear housing cover, 413018, and all gears from inside the gear housing. Disengage the clutch and check to see that the ring gear will rotate by hand. If it will not, using a hex (allen) wrench, slightly loosen all the capscrews and then snugly retighten them in cross-cross pattern, but do not over tighten. The ring gear must rotate by hand. Re-assemble the winch.

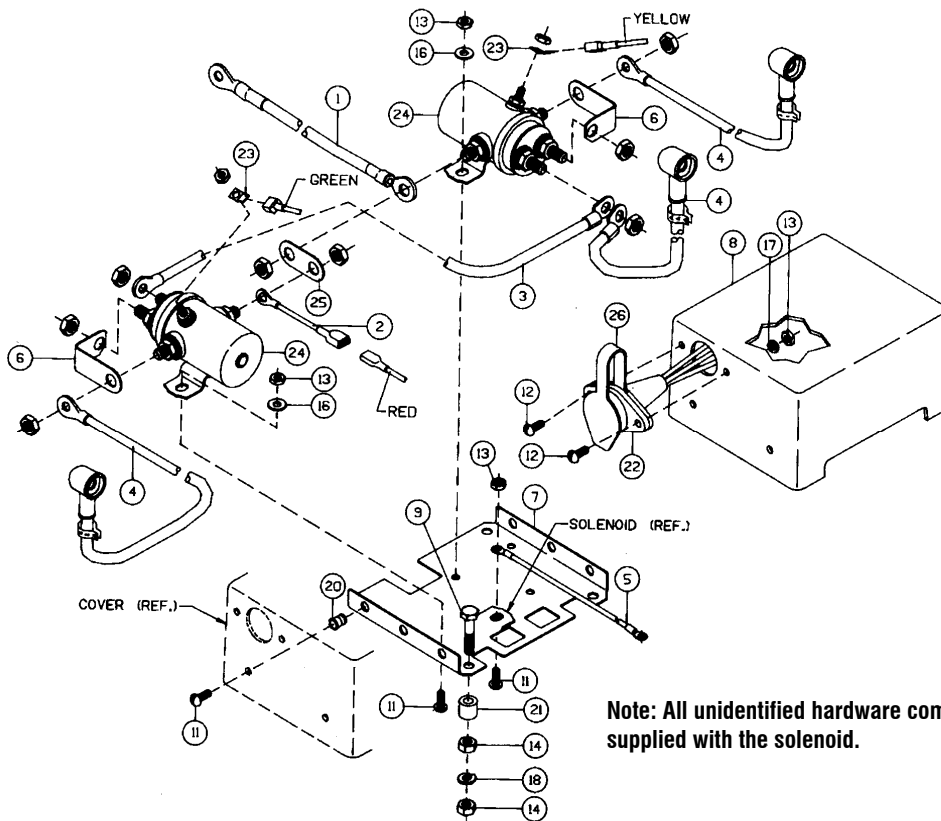


## REP 9.5e PARTS LIST

Item No.	Qty.	Part No.	Description	Item No.	Qty.	Part No.	Description
1	1	247009	Gear Carrier Ass'y.-Input	22	1	414830	Capscrew 1/4-20NC x 3/8 Lg. Soc. Button Hd.
2	1	247022	Gear Carrier Ass'y-Intermediate	23	6	414861	Capscrew 1/4-20NC x 3/4 Lg. Flat Hd. Soc. NYLOK
3	1	247023	Gear Carrier Ass'y-Output	24	6	414868	Capscrew 1/4-20NC x 2-1/2 Lg. Flat Hd. Soc. NYLOK
4	1	251110	Switch Ass'y	25	4	418035	Nut 3/8-16NC Hx. Reg. Z/P
5	1	251118	Cable Assembly	26	5	418177	Lockwasher-3/8 Med. Sect. Z/P
6	1	278158	Solenoid Ass'y	27	4	418181	Washer-Flat 3/8 ID S.A.E. Z/P
7	1	289141	Cable-Ground	28	1	424023	Clamp
8	1	296181	Brake/Shaft Ass'y	29	1	442208	Gasket-Cover
9	1	296589	Motor Assembly	30	1	442219	Gasket-Ring Gear
10	1	328138	Cover-Gear Housing	31	1	444077	Gear-Ring, Input
11	1	332193	Drum-Cable	32	1	448046	Cable Anchor
12	1	334147	Gear-Intermediate Sun	33	2	448049	Tie Bar
13	1	334154	Gear-Input Sun	34	1	470053	Roll Pin-1/8 Dia. x 3/8 Lg.
14	1	334197	Gear-Output Sun	35	1	477002	Locking Ring
15	1	334171	Gear-Ring, Output	36	1	477013	Cam Ring
16	1	338332	End Bearing	37	2	477004	Ring-Half
17	2	412056	Bushing-Drum	38	1	479007	Retainer-Ring Gear
18	1	412061	Bushing-Shaft	39	6	494077	Spring
19	4	414316	Capscrew 3/8-16NC x 1-1/4 Lg. Hx. Hd. Gr.5, Z/P	40	6	518020	Thrust Washer
20	1	414370	Capscrew 3/8-24NF x 1/2 HX HD ZP GR5	41	1	518027	Thrust Disc
21	4	414823	Capscrew 1/4-20NC x 3/4 Lg. Soc. Button Hd.	42	1	452005	Shifter Lever

# Solenoid Assembly Parts List

278158 (12V)



Item No.	Qty.	Part No.	Description
1	1	289015	Wire Assembly—Battery Red 72"
2	1	289091	Wire Assembly—Black 16 Ga. x 1-1/2" Lg.
3	1	289092	Wire Assembly—Black 6 Ga. x 3-1/2" Lg.
4	3	289171	Wire Assembly—Motor Lead
5	1	289208	Wire Assembly—Ground
6	2	364002	Strap—Copper
7	1	408102	Bracket
8	1	413024	Cover—Solenoid
9	3	414053	Capscrew 1/4—20NCx1-1/4Lg.Hx.Hd. Z/P
11	7	416216	Screw #10—24NCX 1/2" Lg. Rd. Hd. Z/P
12	2	416227	Screw #10—24NCX 3/4" Lg. Truss Hd. Black
13	6	418004	Nut—Hx. Reg. #10—24NC Z/P
14	6	418014	Nut—Hx. Reg 1/4—20NC Z/P
16	3	418140	Washer #10 SAE Flat Z/P
17	2	418141	Lockwasher #10 Med. Sect. Z/P
18	3	418149	Lockwasher 1/4 Med. Sect. Z/P
20	3	418411	Nutsert #10—24NC
21	3	418514	Spacer
22	1	430013	Connector Female—Molded
23	2	440071	Terminal Tab
24	2	440110	Solenoid
25	1	440111	Strap—Copper
26	1	482029	Cover—Female Connector

## Warranty Information

Ramsey Winches are designed and built to exacting specifications. Care and skill go into every winch we make. If the need should arise, warranty procedure is outlined on the back of your self-addressed, postage paid warranty card. Please read and fill out the enclosed warranty card and send it to Ramsey Winch Company. If you have any problems with your winch, please follow instructions for prompt service on all warranty claims.

## Limited Lifetime Warranty

Ramsey Winch offers a limited lifetime warranty for each new Ramsey winch against manufacturing defects in workmanship and materials on all manufactured components.

Warranty registration cards for each winch must be submitted at the time of purchase or within 30 days. Warranty will only be valid for the original purchaser of the winch and installed on the vehicles with which they were originally registered.

New cable assemblies are warranted against defects in workmanship and materials. No warranty applies after initial use.

All Ramsey mounting kits and other accessories carry a one year limited warranty against defects in materials and workmanship.

This warranty is void if winch is used in commercial/industrial applications other than front mount self recovery.

Electrical components consisting of motors, solenoids, wiring, wire connectors, and associated parts carry a limited 1-year warranty. Battery isolators carry a 90-day limited warranty.

The obligation under this warranty, statutory or otherwise, is limited to the replacement or repair at the manufacturers factory, or at a point designated by the manufacturer, of such part as shall appear to the manufacturer, upon inspection of such part, to have been defective in material or workmanship. This Warranty does not obligate Ramsey Winch Company to bear the cost of labor or transportation charges in connection with the replacement or repair of defective parts, nor shall it apply to a product upon which repairs or alterations have been made, unless authorized by the manufacturer, or for equipment misused, neglected or improperly installed.

**Important notice: To the fullest extent permitted by applicable law, the following are hereby excluded and disclaimed: 1. All warranties of fitness for a particular purpose; 2. All warranties of merchantability; 3. All claims for consequential or incidental damages. There are no warranties that extend beyond the description that appears on the face hereof.**

**Some states do not allow the above exclusions or disclaimers in consumer transactions and as such this disclaimer/exclusion may not apply to your particular case.**

**To the extent such warranties of fitness for a particular purpose or merchantability are deemed to apply to this product, they exist only for so long as the express limited warranty elsewhere set forth is in existence.**

Ramsey Winch Company makes no warranty in respect to accessories, same being subject to the warranties of their respective manufacturers.

Ramsey Winch Company, whose policy is one of continuous product improvement, reserves the right to improve any product through changes in design or materials as it may deem desirable without being obligated to incorporate such changes in products of previous manufacture.

If field service at the request of the buyer is rendered and the fault is found not to be with Ramsey Winch Company's product, the buyer shall pay the time and expense of the field representative. Bills for service, labor or other expenses which have been incurred by the buyer without express approval or authorization by Ramsey Winch Company will not be accepted.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.



## RAMSEY WINCH COMPANY

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