



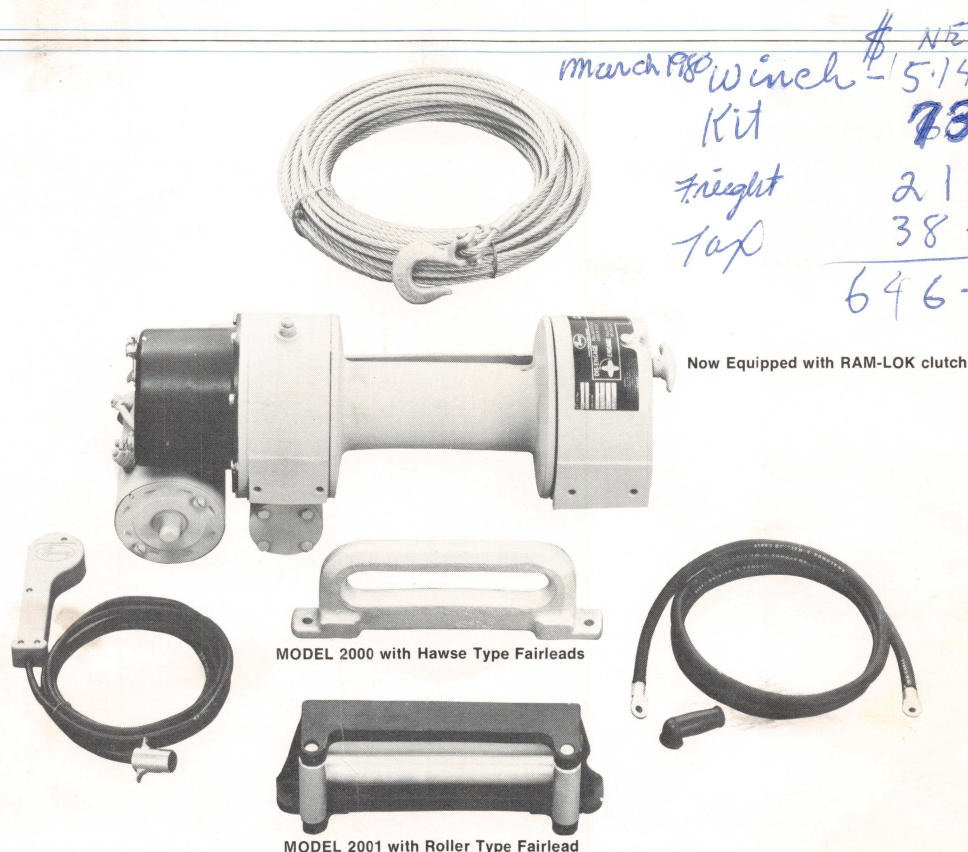
Ramsey Winch Company OWNERS MANUAL

Front Mount Electric Winch

Model 2000 with Hawse Type Fairleads*

Model 2001 with Roller Type Fairleads*

Model 7901 with Roller Type Fairlead*



Congratulations

You have purchased the finest winch available in its service class. It was designed and manufactured to provide you with the utmost in fun and utility. The new RAM-LOK clutch gives you easier free spooling and positive clutch engagement for greater convenience. 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 pulling for you.

Limited Warranty

Ramsey Winches are designed and built to exacting specifications. Great care and skill go into every winch we make. 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.

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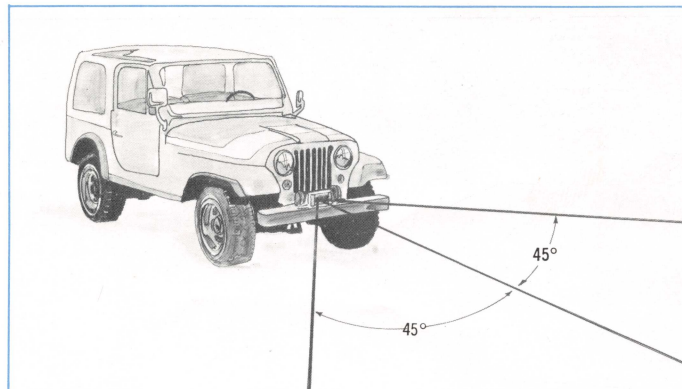
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*MODEL 2000/2001 12 Volt MODEL 7901 12 Volt
MODEL 2002/2003 24 Volt 24 Volt Available

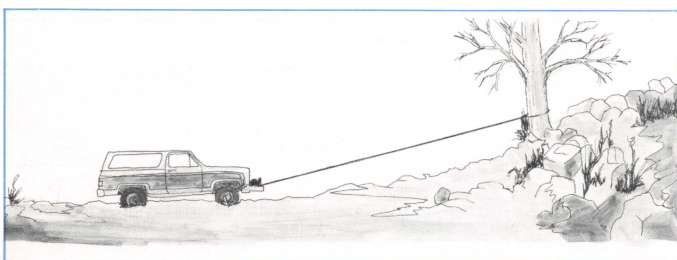
Techniques of Operation

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 sounds of a light steady pull, a heavy pull, and sounds caused by load jerking or shifting. Soon you will gain confidence in operating your winch and its use will become second nature with you.

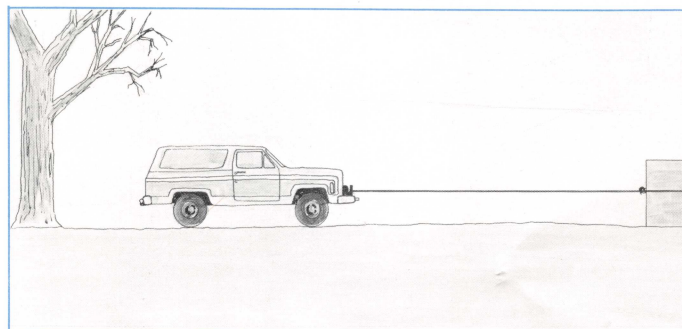
Your winch will not only pull you up or ease you down a steep grade, it will also pull another vehicle or a load while your vehicle is anchored in a stationary position. The following sketches show you a few techniques to start your imagination working.



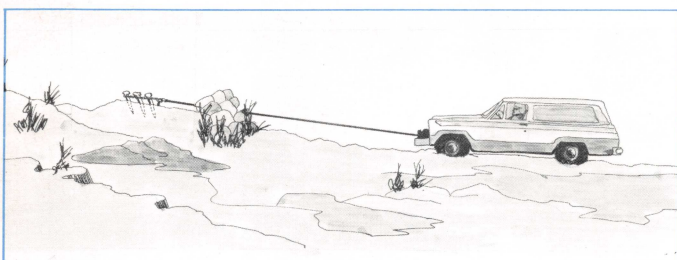
Winches equipped with cable guide rollers can pull from several directions. Pull from an angle only to straighten up the vehicle — otherwise you can damage structural members or other parts of your vehicle.



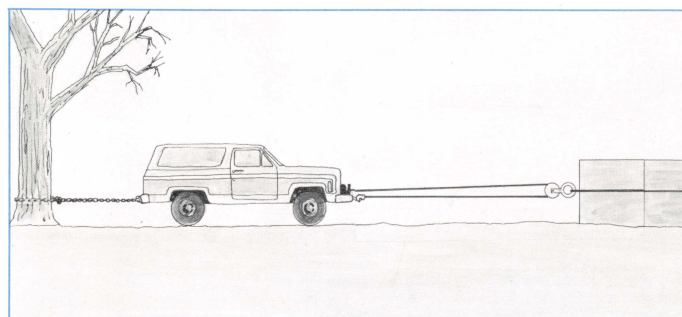
Anchor to a tree or a heavy rock.



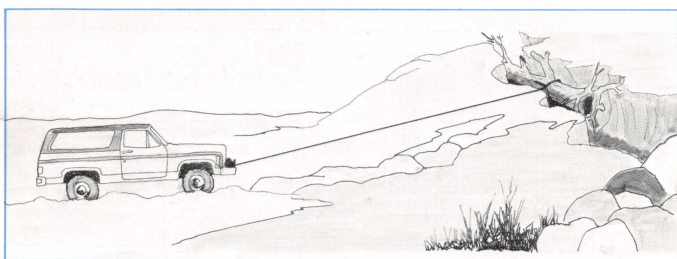
A direct pull of 2,000 lbs.



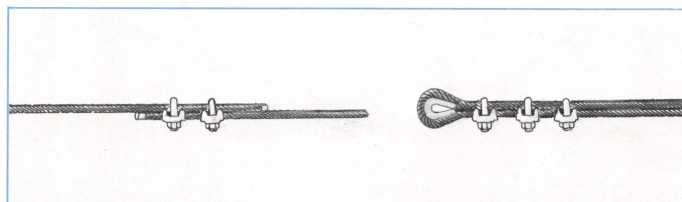
Stakes driven in solid earth and chained together make a good anchor point.



Double the pull, twice the time to pull it. For a 4,000 lb. pull, hitch truck to tree or other solid anchor.



Anchor made by burying a log. Bury your spare tire horizontally with an adequate covering of earth or sand.



Always carry a spare set of cable clamps and hook for use in case the cable breaks. Never install less than two cable clamps with not less than three inches separation.

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 area for anchoring possibilities as well as leverage situations, direction, and goal.

Operating Instructions

1. To spool winch cable on and off drum, operate thumbswitch in control switch handle.
2. The RAM-LOK semi-automatic clutch provides free spooling and clutch engagement with the cable drum. The spring-loaded RAM-LOK clutch is engaged by pulling clutch handle outward, rotating 90° clockwise and releasing. Spring tension forces the clutch jaws into position as the clutch starts to turn and complete engagement when the clutch jaws and cable drum jaws are properly aligned or positioned. To disengage pull clutch handle outward rotate 90° counter-clockwise to lock clutch at disengaged position. Do not engage or disengage clutch when power is being transmitted to winch.
3. Hidden Winch Kits utilize a remote cable control for shifting the RAM-LOK clutch.
To disengage clutch pull "T" handle on control cable outward and rotate clockwise until tight. (Clutch cable control has built-in locking device.)
4. Before putting winch into service, perform three or four winching operations under light loads to seat worm gear to wormshaft and break-in components.
5. Be sure load is directly in front of winch.
Note: This is the best position for pulling and also for even-layering of the cable on the drum. Pulling against either side roller causes uneven layering and limits drum capacity.
6. Install heavy-duty battery in vehicle for heavy or long pulls. Add second battery to system for additional power if desired. Be sure batteries are connected in parallel; that is, positive post to positive and negative post to negative.
7. **Warning: Goods are not intended for use in the lifting or moving of persons.**

The winches described herein are neither designed for use application to equipment used in the lifting or moving of persons. Any such use shall be considered to be improper and the seller shall not be responsible for any claims arising therefrom.

This sale is made on the express understanding that there is no implied warranty that the goods shall be fit for the purpose of lifting or moving persons or other improper use and there is no implied warranty or merchantability for such purposes.

Specifications

Rated Line Pull.....	8,000 lbs.					
Total Gear Reduction.....	360 to 1					
Weight (Winch only):						
Model 2000.....	73 lbs.					
Model 2001.....	73 lbs.					
Model 7901.....	65 lbs.					
Shipping Weight Complete:						
Model 2000.....	112 lbs.					
Model 2001.....	114 lbs.					
Model 7901.....	165 lbs.					
Layer of Cable	1	2	3	4	5	6
Rated Line Pull Per Layer (Lbs.)	8,000	6,900	6,100	5,400	4,900	4,500
Cable Capacity Per Layer (Ft.)						
Model 2000/2001	22	44	69	97	128	162
Model 7901	16	33	52	73	97	122

Performance*

Line Pull (Lbs.)	0	2,000	4,000	6,000	8,000
Line Speed (F.P.M.)	15	7.5	5.5	4	3

*Based on the first layer of cable on drum.

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.

Don't worry about even spooling while pulling a load unless there is a cable pile-up at one end. After the job is done you can respool for a neat lay of the cable.

When you're pulling a heavy load where there is even a remote chance for cable failure, place a blanket, jacket or tarpaulin over the cable about six yards behind the hook. It acts as a parachute . . . slows the snap-back of a broken cable and could save you from serious injury.

Don't leave your winch in gear. Circumstances can occur that could cause heavy damage to your vehicle, if by some rare accident the winch started operating, causing the hook to catch and pull against a part of the vehicle or winch.

Respect for your winch and vehicle as well as common sense in their operation will reward you with safe and dependable work from them. Don't take chances; make sure in every hook-up that you are in command.

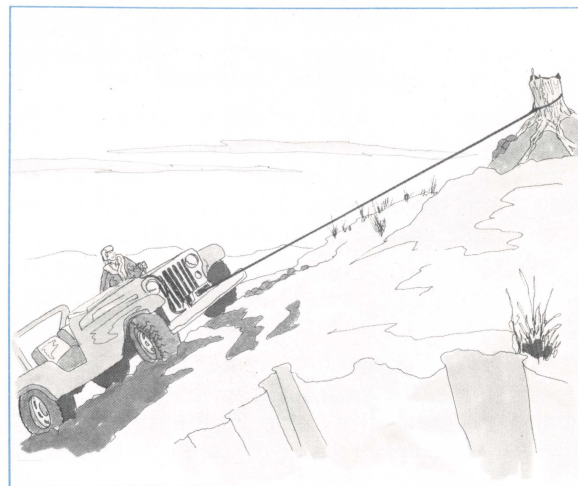
To guard against possible injury...

- A. Keep yourself and others a safe distance to the side of the cable when pulling.
- B. Don't step over a cable, or near a cable in tension.
- C. Don't move the vehicle to pull a load on the winch cable. This could result in cable breakage.
- D. Use a heavy rag or gloves to protect hands from burrs when handling winch line. Do not use hands to guide a winch line that is under tension.
- E. Apply blocks to wheels when vehicle is on an incline.
- F. Stay out of and safely away from a vehicle in a dangerous spot.
- 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. Winches are not to be used to lift, support or otherwise transport personnel.
- J. A minimum of five wraps of cable around the drum barrel is necessary to hold the rated load.

Brief List of Uses



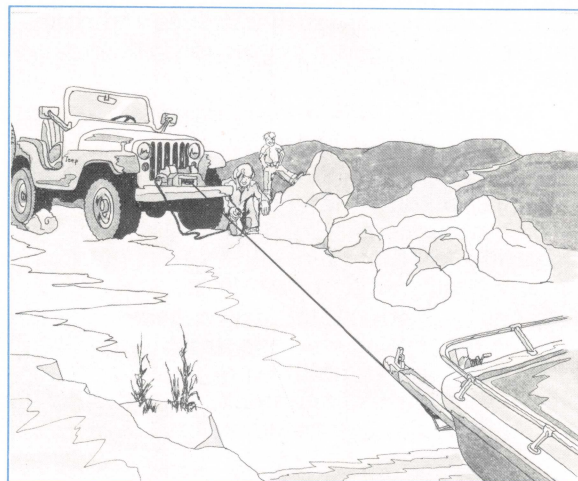
When the going gets tricky and you want to get there safely, the Ramsey winch is a fine companion to have on your journey.



A winch can provide more vacation fun as well as year-around utility.



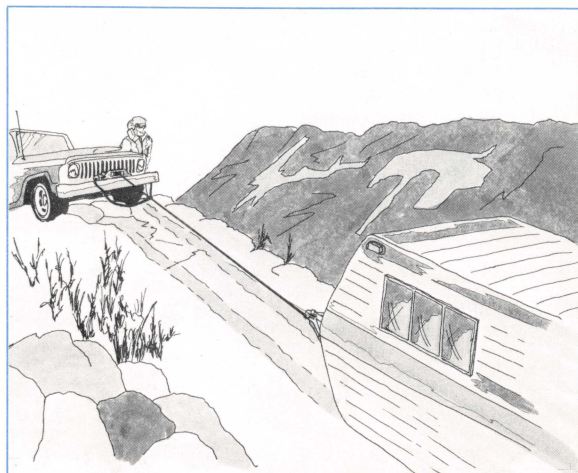
Pull yourself out of a snowbank, mud hole, or up a steep hill. Sometimes the shortest route to your destination calls for the use of a reliable winch . . . a Ramsey.



Launching and loading marine equipment is easier and safer with a good winch when you're in the tall and uncult.



If your profession or sport takes you constantly into off-road territory, a winch should be part of your gear at all times.



For mobile emergency uses of all kinds. A winch offers power to get you and others out of trouble quickly and safely.

Suggestions for Maintenance of Your Winch

Spool the cable properly on the drum when storing between each usage.

Check the oil level in the gear box every six months.

At the same time, check electrical connections and mounting bolts — tighten if necessary.

Be sure the winch has plenty of battery power available.

The minimum ampere-hour rating of the vehicle battery should be 70, and used with at least a 40 amp. alternator.

Replace oil annually or more often if winch is used frequently. We suggest all purpose SAE 140 for worm

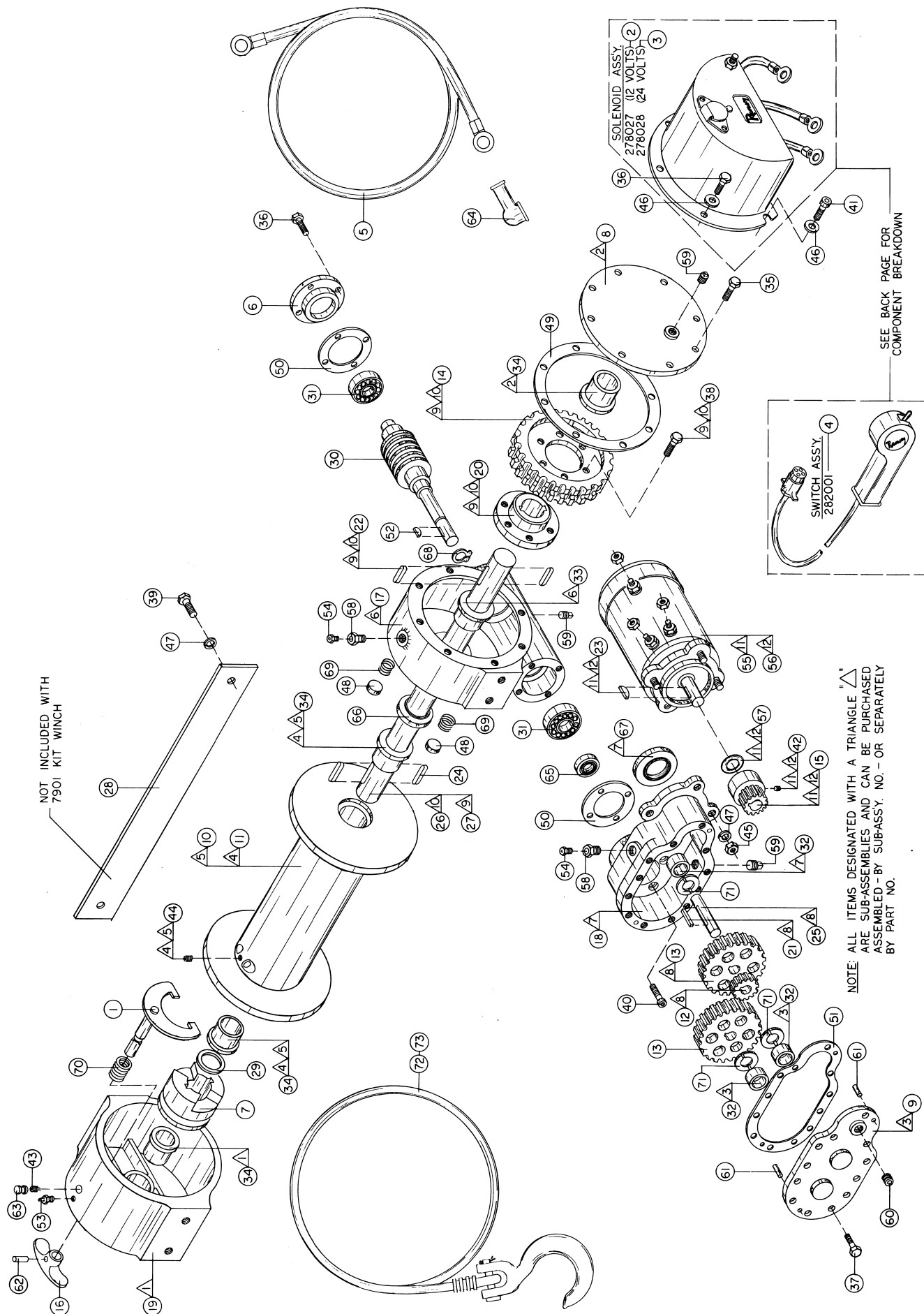
gear box and SAE 20 for spur gear box. Apply cup grease to lube fitting at top of clutch housing. Check periodically to determine if clutch operates freely. If not, lubricate.

Should winch be submerged for a brief period, drain oil, flush and replace oil in gear boxes. Place oil in motor pots and all grease zerks. On hidden winches check periodically to determine that the clutch cable control operates freely. If not, lubricate.

If winch is not to be used for an extended period, disconnect winch battery cable from the battery. For best results, use only factory certified replacement parts.

Ramsey Electric Winches Trouble Shooting Guide

CONDITION	POSSIBLE CAUSE	CORRECTION
MOTOR RUNS IN ONE DIRECTION ONLY	<ol style="list-style-type: none"> (1) Defective solenoid or stuck solenoid (2) Defective switch (3) Broken wire or bad connection 	<ol style="list-style-type: none"> (1) Jar solenoid to free contacts. Check by applying 12 volts to coil terminal (it should make an audible click when energized). (2) Disengage winch clutch or remove armature lead. Remove switch plug from hood. Raise connector cover on hood and with a screw driver, short the bottom two pins. Solenoid should click. Short the two left hand pins. The other solenoid should operate. If both solenoids operate check for a broken wire in switch cable. (3) Check for loose connection on switch and switch connector.
MOTOR RUNS EXTREMELY HOT MOTOR RUNS, BUT WITH INSUFFICIENT POWER, OR WITH LOW LINE SPEED	<ol style="list-style-type: none"> (1) Long period of operation (2) Insufficient battery (3) Cable from battery to winch too small (4) Bad connection (5) Insufficient charging system 	<ol style="list-style-type: none"> (1) Cooling-off periods are essential to prevent over-heating. (2) Check battery terminal voltage under load. If 10 volts or less, replace or parallel another battery to it. (3) Check battery to ground (chassis) cable. Must be No. 2 or larger. (4) Check battery cables for corrosion; clean and grease. (5) Replace with larger capacity charging system.
MOTOR RUNS, BUT DRUM DOES NOT TURN	<ol style="list-style-type: none"> (1) Clutch not engaged (2) Sheared drum shaft key (3) Stripped bronze gear (4) Parted shaft 	<ol style="list-style-type: none"> (1) If clutch engaged but symptom still exists, it will be necessary to disassemble winch to determine cause and repair.
MOTOR WILL NOT OPERATE	<ol style="list-style-type: none"> (1) Defective solenoid or stuck solenoid (2) Defective switch (3) Defective motor (4) Loose connections 	<ol style="list-style-type: none"> (1) Jar solenoid to free contacts. Check by applying 12 volts to coil terminal (it should make an audible click when energized). (2) Disengage winch clutch or remove armature lead. Remove switch plug from hood. Raise connector cover on hood and with a screw driver, short the bottom two pins. Solenoid should click. Short the two left pins. The other solenoid should operate. If both solenoids operate, check for a broken wire in switch cable. (3) If solenoids operate, check for voltage at armature post; replace motor. (4) Tighten connections on bottom side of hood and on motor.
MOTOR WATER DAMAGED	<ol style="list-style-type: none"> (1) Submerged in water 	<ol style="list-style-type: none"> (1) Allow to drain and dry thoroughly, then run motor without load in short bursts to dry windings.
CLUTCH INOPERATIVE OR BINDS UP	<ol style="list-style-type: none"> (1) Dry or rusted shaft (2) Dog point setscrew too tight (3) Bent yoke (4) Keys pulled out of shape by over load 	<ol style="list-style-type: none"> (1) Clean and lubricate. (2) Remove rubber plug from clutch housing and rotate set-screw outward until clutch operates smoothly. Replace rubber plug. (3) Replace yoke or shifter assembly. (4) If drum shaft's keyways are rounded or damaged replace shaft and keys. If not, file off burrs and replace keys.
CLUTCH SPRING DOES NOT OPERATE	<ol style="list-style-type: none"> (1) Broken spring 	<ol style="list-style-type: none"> (1) Replace.
CLUTCH DOES NOT LOCK AT DISENGAGED POSITION	<ol style="list-style-type: none"> (1) Set screw loose or worn 	<ol style="list-style-type: none"> (1) Remove rubber plug from clutch housing, tighten set-screw or replace. Replace plug.
REMOTE CABLE CONTROLLED CLUTCH DOES NOT LOCK IN DISENGAGED POSITION	<ol style="list-style-type: none"> (1) Failure to properly secure remote cable 	<ol style="list-style-type: none"> (1) See individual mounting kit instructions for proper adaptation of cable to clutch assembly. See paragraph (3) in Operating Instructions, Page 3 Owner's Manual.
OIL LEAKS FROM HOUSING	<ol style="list-style-type: none"> (1) New seal (2) Seal damaged or worn (3) Too much oil (4) Damaged gasket 	<ol style="list-style-type: none"> (1) New seals sometimes leak until seated to shaft. (2) Replace. (3) Drain excess oil per lubrication instructions. (4) Replace.



Winch Parts List

Item No.	Qty. Req'd	Part No.	Description
1	1	276028	Shifter Ass'y.
2	1	278027	Solenoid Ass'y. (12V)
3	1	278028	Solenoid Ass'y. (24V)
4	1	282001	Switch Ass'y.
5	1	289015	Battery Cable
6	1	316083	Bearing Cap
7	1	324134	Jaw Clutch
8	1	328105	Cover — W.G.
9	1	328106	Cover — S.G.
10	1	332002	Cable Drum 2000/2001
11	1	332079	Cable Drum 7901
12	1	334001	Idle Gear
13	2	334003	Spur Gear
14	1	334005	Gear R.H. 46:1
15	1	334129	Pinion Gear
16	1	336010	Handle
17	1	338017	Gear Housing
18	1	338203	Spur Gear Housing
19	1	338208	Clutch Housing
20	1	340001	Gear Hub
21	1	342033	Key
22	2	342075	Key
23	1	342186	Key
24	2	342084	Key
25	1	356901	Shaft
26	1	357406	Drum Shaft 2000/2001
27	1	357405	Drum Shaft 7901
28	1	364029	Strap
29	1	366016	Spacer
30	1	368162	Worm R.H. 46:1
31	1	402002	Bearing
32	3	412038	Bushing
33	1	412039	Bushing
34	4	412040	Bushing
35	3	414049	Capscrew
36	7	414059	Capscrew
37	12	414060	Capscrew

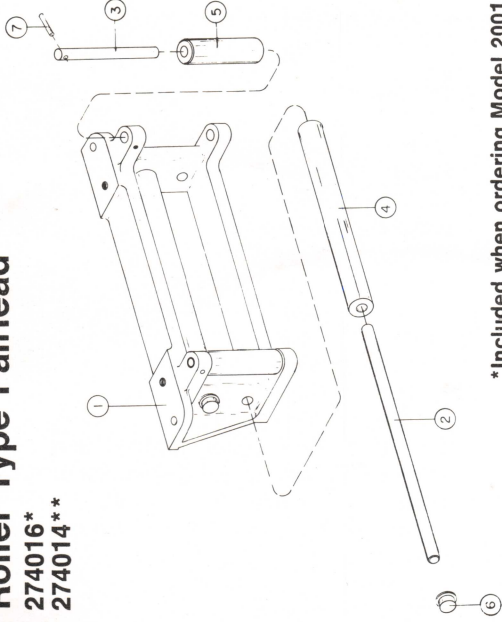
Sub Assembly Parts

Item No.	Qty. Req'd	Part No.	Description
△	1	222040	Clutch Housing Ass'y.
△	1	228059	Gear Housing Cover Ass'y.
△	1	228060	Spur Gr. Hsg. Cover Ass'y.
△	1	234080	Drum Ass'y. 7901
△	1	234119	Drum Assy. 2000/2001
△	1	248041	Gear Housing Assy.

Item No.	Qty. Req'd	Part No.	Description
38	6	414110	Capscrew
39	2	414310	Capscrew
40	4	414842	Capscrew
41	2	414851	Capscrew
42	1	416029	Setscrew
43	1	416036	Setscrew
44	1	416057	Setscrew
45	3	418039	Nut
46	5	418154	Washer
47	5	418177	Lockwasher
48	2	438001	Drag Brake
49	1	442001	Gasket
50	2	442002	Gasket
51	1	442003	Gasket
52	1	450005	Key — Woodruff
53	1	456001	Grease Fitting
54	2	456008	Relief Fitting
55	1	458001	Motor (12V)
56	1	458005	Motor (24V)
57	1	462015	O-Ring
58	2	468002	Reducer
59	3	468011	Pipe Plug
60	1	468018	Pipe Plug
61	2	470001	Dowell Pin
62	1	470033	Spiral Pin
63	1	472012	Plug
64	1	482013	Grommet
65	1	486009	Oil Seal
66	1	486017	Oil Seal
67	1	486023	Oil Seal
68	1	490003	Snap Ring
69	2	494002	Spring
70	1	494053	Spring
71	3	518002	Thrust Washer
72	1	524116	Cable & Hook 7901
73	1	524117	Cable & Hook 2000/2001

Roller Type Fairlead

274016*
274014**



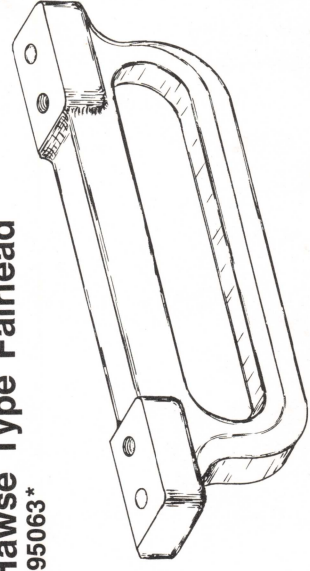
*Included when ordering Model 2001
**Included when ordering Model 7901

Roller Guide Parts

Item No.	Qty. Req'd	2001 Part No.	7901 Part No.	Description
1	1	333019	333017	Roller Rrame
2	2	346035	346032	Pin-Roller, Long
3	2	346036	346036	Pin-Roller, Short
4	2	354028	354026	Roller, Long
5	2	354029	354029	Roller, Short
6	4	418404	418404	Pal Nuts
7	2	470032	470032	Spiral Pins .094 Dia. x 1 lg.

Hawse Type Fairlead

395063*

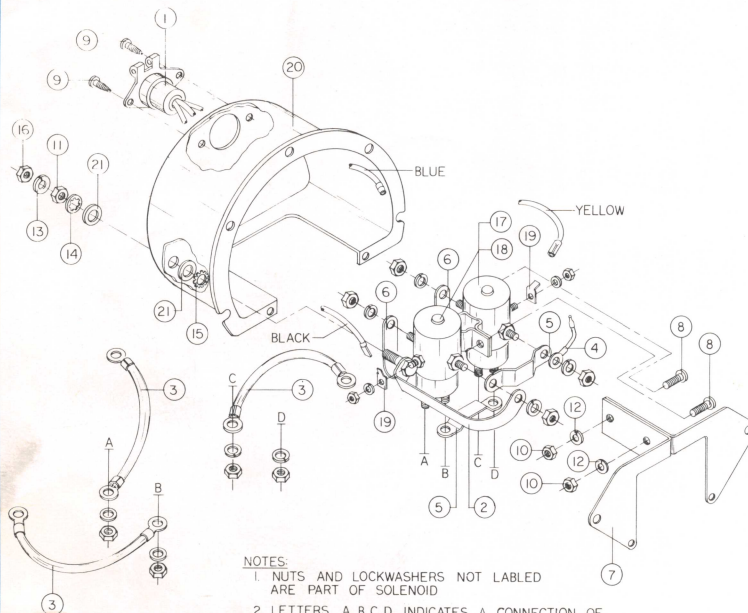


*Included when ordering Model 2000

When ordering parts be sure they are Ramsey Certified Parts

Solenoid Assembly Parts

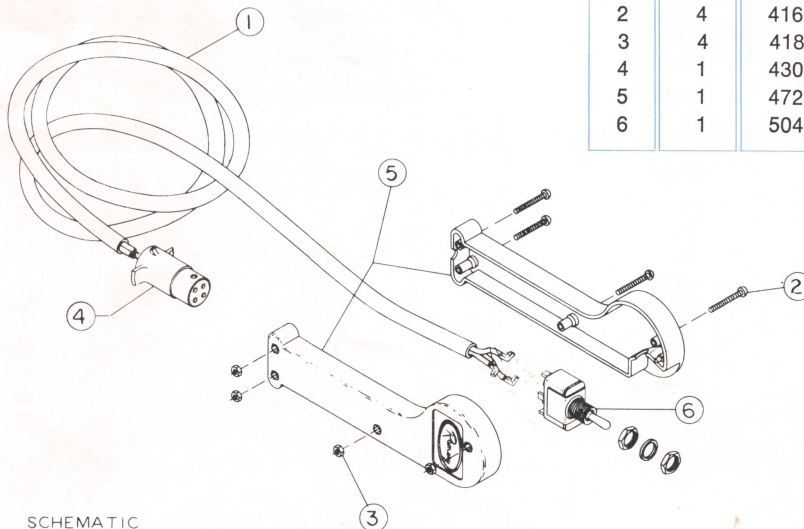
278027 — 12V
278028 — 24V



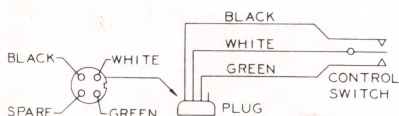
NOTES:
1. NUTS AND LOCKWASHERS NOT LABELED ARE PART OF SOLENOID
2. LETTERS A, B, C, D, INDICATES A CONNECTION OF CENTER LINES WITH CORRESPONDING LETTER AND SHOULD BE ASSEMBLED ACCORDING TO CENTER LINES

Item No.	Qty. Req'd	Part No.	Description
1	1	226007	Connector Ass'y.
2	1	280001	Strap Capscrew Ass'y.
3	3	289013	Wire Ass'y.
4	1	289069	Wire Ass'y.
5	2	364001	Strap
6	2	364002	Strap
7	1	408035	Bracket — Sol.
8	2	416216	Screw #10-24 x 1/2 lg.
9	2	416256	Screw — Metal #10
10	2	418004	Nut #10-24
11	1	418022	Nut 5/16-18NC
12	2	418141	Lockwasher #10 Med. Sect.
13	1	418163	Lockwasher 5/16-Med. Sect.
14	1	418164	Lockwasher Int. Tooth
15	1	418165	Lockwasher Ext. Tooth
16	1	419402	Nut — Jam
17	2	440003	Solenoid — 12V
18	2	440017	Solenoid — 24V
19	2	440071	Terminal — Tab
20	1	472011	Cover
21	2	518013	Fiber Washer

282001 Switch Assembly Parts



SCHEMATIC



Item No.	Qty. Req'd	Part No.	Description
1	1	289011	Wire Ass'y. 10 ft. long
2	4	416189	Screw
3	4	418003	Nut
4	1	430001	Male Connector
5	1	472001	Handle
6	1	504009	Toggle Switch



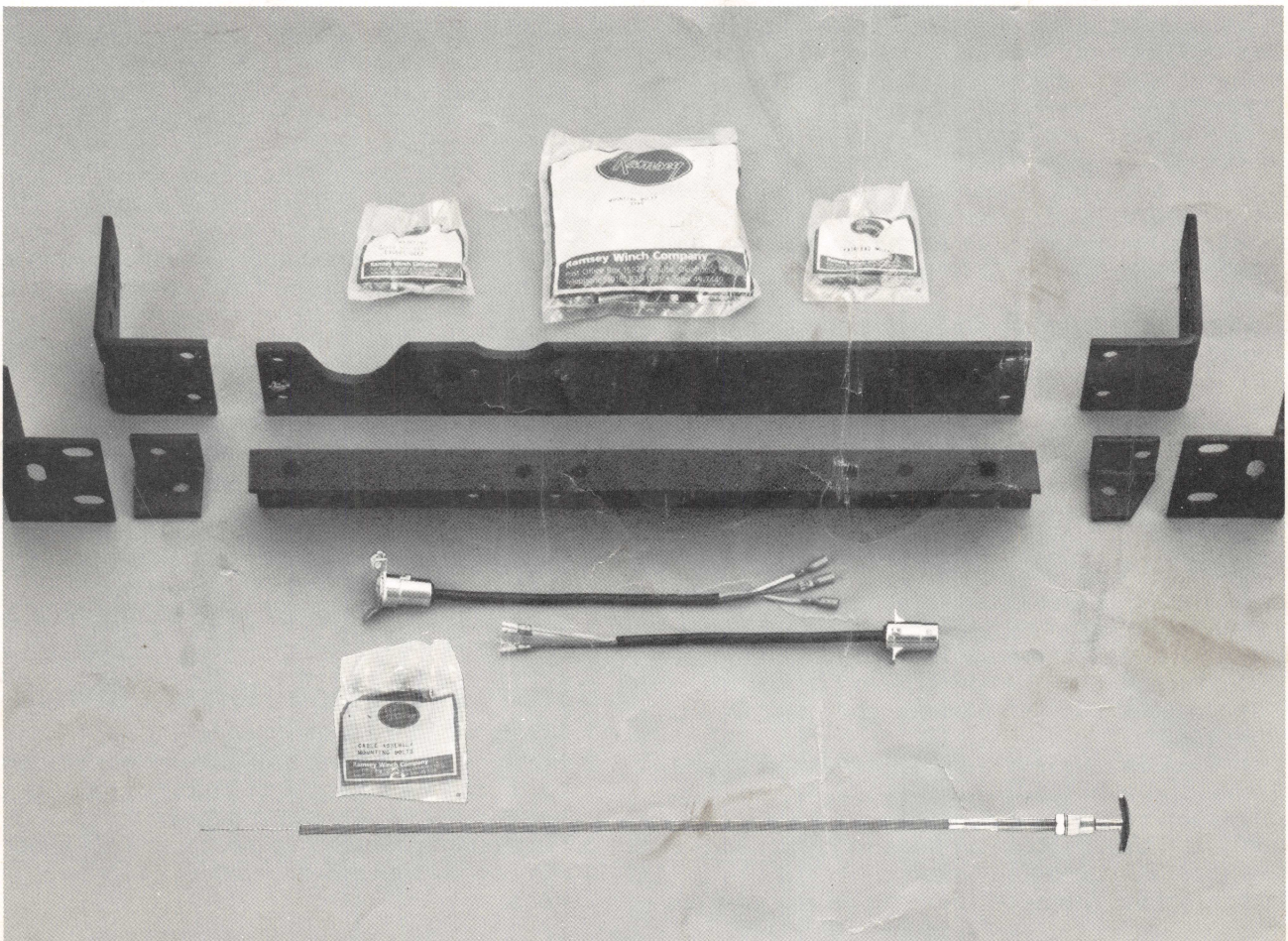
Mounting Kit No. 2746

Installation Instructions

Chevrolet Blazer, 1/2, 3/4 & 1 Ton Pickups

GMC Jimmy, 1/2, 3/4 & 1 Ton Pickups

Ramsey Model 2000 and 2001* Front Mount Winch



*MODEL 2000/2001 12 Volt
MODEL 2002/2003 24 Volt

Installation Instructions

A. Remove Vehicle Bumper

1. Save bumper hardware for re-installation of vehicle bumper.

B. Mounting Kit to Winch Assembly

1. Remove shipping strap.
2. Attach Back-Bar (Item #10) to winch assembly using (3) $\frac{3}{8}$ -16NC x 1 Hx. Hd. capscrews with lockwashers and (1) $\frac{3}{8}$ -16NC x $\frac{5}{8}$ Hx. Soc. Hd. capscrews. *Tighten all bolts to proper torque value.* (See Torque Value chart)
3. Attach front mounting angle (Item #8) to winch assembly using (3) $\frac{3}{8}$ -16NC x 1 Hx. Hd. capscrews and (1) $\frac{3}{8}$ -16NC x $\frac{3}{4}$ Hx. Hd. capscrews all with lockwashers. *Tighten all bolts to proper torque value.* (See Torque Value Chart)
4. Attach roller assembly (included with Model 2001 winch) to top side of front mounting angle using (2) $\frac{3}{8}$ -16NC x $1\frac{1}{4}$ Hx. Hd. capscrews, lockwashers and nuts and (2) $\frac{3}{8}$ -16NC x 1 Hx. Hd. capscrews with lockwashers. *See diagram, tighten all bolts to proper torque value.* (See Torque Value Chart)
5. Bolt brackets (Item #11 and Item #6) to inside of vehicle's right side rail with (4) $\frac{1}{2}$ -13NC x $1\frac{1}{2}$ Hx. Hd. capscrews. Repeat above procedure to left side rail, using brackets (Item #12 and Item #7).
6. *Before lifting kit and winch assembly, the rubber plug must be removed from clutch housing to allow removal of allen Hd. setscrew. Replace plug after setscrew's removal.* Remove spiral pin (existing pin) from clutch handle. Discard handle and re-use pin to attach clevis (Item #13) to shifter shaft of winch assembly.

Bend the lip of the female electrical connector cover in the solenoid cover, at gear housing end of winch, until it is at a 90° angle to the face of the connector cover.

Two holes need to be drilled thru vehicle's left side rail; (1) $\frac{1}{2}$ (.344) Dia. hole and (1) $\frac{1}{2}$ (.281) hole. *See diagram — View "A" for approximate location of holes.* After holes have been drilled, attach angle bracket (Item #9) to outside of frame at $\frac{1}{2}$ hole using $\frac{1}{4}$ -20NC x 1 Hx. Hd. capscrew.

7. Raise winch with Back-Bar, front angle with roller frame attached, between right and left side mounting brackets. Fasten front angle to front side of mounting brackets (Items #6 and #7) with (1) $\frac{1}{2}$ -13NC x $1\frac{1}{4}$ (each side) use lockwashers and nuts. *Do not tighten bolts.*

Attach Back-Bar to rear mounting brackets (Items #11 and #12) with (2) $\frac{1}{2}$ -13NC x $1\frac{1}{2}$ Hx. Hd. capscrew (each side) use lockwashers and nuts. Level winch and frame. *Tighten all bolts to proper torque value.* (See Torque Value Chart)

Attach brackets (Items #4 and #5) to top of front

mounting angle (Item #8) and front side of mounting brackets (Items #6 and #7) with $\frac{1}{2}$ -13NC x $1\frac{1}{4}$ Hx. Hd. capscrews, use lockwashers and nuts. *See diagram — Tighten all bolts securely.*

8. Place cable thru $\frac{1}{2}$ Dia. hole in frame. Place cable wire thru clevis (Item #13) and thru swivel (Item #3) and secure.

(Be sure that cable, pushed in as far as possible, has no sharp bends and clutch is fully engaged before tightening swivel assembly. After swivel has been tightened bend end of cable 90°, so swivel will not slip off of cable during operations.) Secure cable housing between bracket (Item #9) and clip (Item #15) using $\frac{1}{4}$ -20NC x 1 Hx. Hd. capscrews, lockwashers and nuts.

To dis-engage clutch pull cable control handle out and rotate clockwise to lock clutch at dis-engaged position.

C. Bumper Installation

1. Connector assemblies (Item #1 and Item #2) are provided to allow for a more convenient location for the female connector (Item #1) for hand control switch. Location should be determined and holes drilled before bumper is re-installed.
2. Cut bumper as shown in View "B". (License plate bracket will need to be relocated if front license plate is required.)
3. One $\frac{1}{2}$ " Dia. (slotted) hole is required on top flange of bumper, L. H. side, for cable mounting. *(See diagram for hole location)*
4. Remount vehicle bumper, using existing vehicle hardware, to top portion of frame. To attach lower portion of bumper to vehicle (2) $\frac{1}{2}$ -13NC x 3 Lg. capscrews, lockwashers and nuts are required. Align bumper braces and bolt securely to frame. *Tighten all bolts to proper torque value.* (See Torque Value Chart)
5. Take male connector assembly (Item #2) and place it thru designated hole in bumper and plug into female connector on black solenoid cover of winch assembly. Fasten female connector (Item #1) to outside of bumper using (2) #10-24NC x $\frac{5}{8}$ Lg. slotted Hd. screw. *Tighten securely.*
6. Place handle end of cable in slotted hole in bumper and secure.

D. Battery Cable and Remote Switch

1. Connect battery cable to winch.
2. Route cable between grill and vehicle crossmember up to the positive post of battery. *(Be sure battery cable is not on any sharp edges.)*
3. Plug remote switch into receptacle on winch.
4. Run winch forward and reverse to check connections.

E. Winch Cable

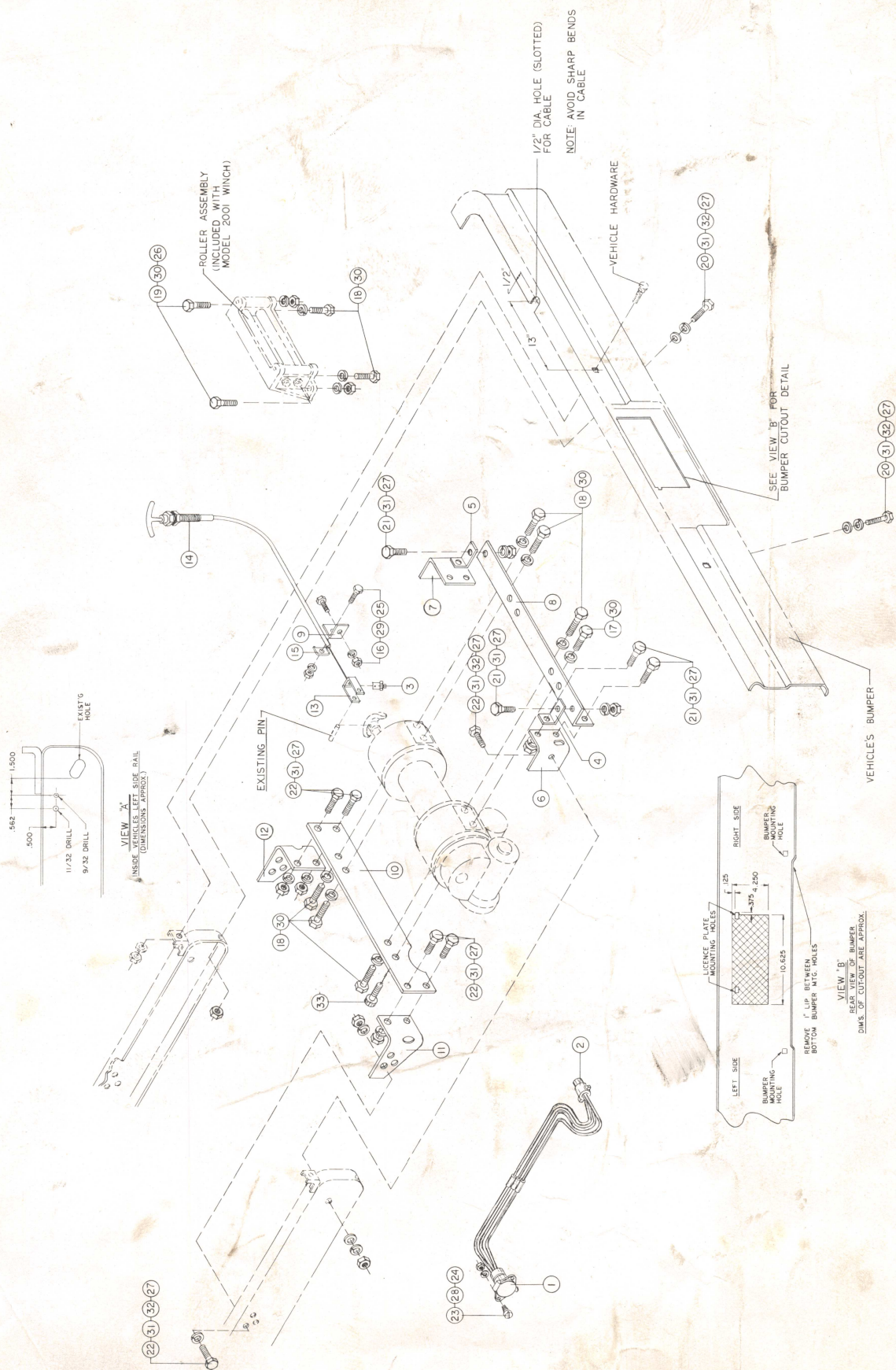
1. Unwind cable by rolling it along floor.
2. Place end of cable, opposite hook, through fairlead and into hole in winch drum.
3. Secure cable with setscrew.
4. Wind cable, using winch power, onto drum in even layers. (Refer to your winch owner's manual for safe operation.)

NOTE: RIGHT AND LEFT HAND DIRECTIONS AS IF SEATED BEHIND STEERING WHEEL.

Torque Value Chart

Size	Torque Ft. Lbs.	Nm
1/4-20	5	6.7
3/8-16	18	24.4
7/16-14	28	37.9
1/2-13	39	52.8
1/2-20	41	55.5
5/8-11	83	112.5
3/4-10	105	142.3

Mounting Kit No. 2746



Parts List for Mounting Kit No. 2746

Item No.	No. Req'd	Part No.	Description
1	1	226004	Connector Assembly — Female
2	1	226005	Connector Assembly — Male
3	1	299501	Swivel Assembly
4	1	302622	Bracket
5	1	302623	Bracket
6	1	302624	Bracket
7	1	302625	Bracket
8	1	302626	Front Angle
9	1	302714	Angle Bracket
10	1	304121	Back-Bar
11	1	312260	Bracket R.H.
12	1	312261	Bracket L.H.
13	1	395067	Clevis
14	1	395068	Cable Assembly
15	1	408007	Clip
16	2	414051	Capscrew 1/4-20NC x 1 Lg. Hx. Hd. Cad. Plated
20	2	414543	Capscrew 1/2-13NC x 3 Lg. Hx. Hd. Cad. Plated
21	6	414566	Capscrew 1/2-13NC x 1 1/4 Hx. Hd. Cad. Plated
22	10	414567	Capscrew 1/2-13NC x 1 1/2 Hx. Hd. Cad. Plated
23	2	416217	Screw #10-24NC x 5/8 Slotted Hd. Cad. Plated
24	2	418004	Nut #10-24NC Hx. Reg. Cad. Plated
25	2	418014	Nut 1/4-20NC Hx. Reg. Cad. Plated
27	18	418069	Nut 1/2-13NC Hx. Reg. Cad. Plated
28	2	418141	Lockwasher #10 Med. Section Cad. Plated
29	2	418149	Lockwasher 1/4 Med. Section Cad. Plated
31	18	418218	Lockwasher 1/2 Med. Section Cad. Plated
32	8	418223	Washer 1/2 Flat Cad. Plated
			WINCH MOUNTING BOLTS
17	1	414309	Capscrew 3/8-16NC x 3/4 Lg. Hx. Hd. Cad. Plated
18	6	414310	Capscrews 3/8-16NC x 1 Lg. Hx. Hd. Cad. Plated
33	1	414912	Capscrew 3/8-16NC x 5/8 Hx. Soc. Hd. Cad. Plated
30	7	418177	Lockwashers 3/8 Med. Section Cad. Plated
			FAIRLEAD BOLTS
18	2	414310	Capscrews 3/8-16NC x 1 Lg. Hx. Hd. Cad. Plated
19	2	418311	Capscrews 3/8-16NC x 1 1/4 Lg. Hx. Hd. Cad. Plated
26	2	418035	Nuts 3/8-16NC Hx. Reg. Cad. Plated
30	4	418177	Lockwashers 3/8 Med. Section Cad. Plated

When ordering parts be sure they are Ramsey Certified Parts.



Ramsey Winch Company

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