



INSTALLATION AND OPERATING INSTRUCTIONS FOR RAMSEY WIRELESS REMOTE CONTROL FOR THE ATV WINCH

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The following are general installation instructions. Actual installation may vary depending on the ATV manufacturer and model.

Warnings

- 1. THE RAMSEY WIRELESS REMOTE FOR THE ATV WINCH IS DESIGNED FOR USE ON SELF-RECOVERY WINCHES ONLY. THE REMOTE IS NOT DESIGNED FOR AND SHOULD NOT BE USED ON WINCHES OR HOISTS IN INDUSTRIAL APPLICATIONS (CAR HAULERS/CARRIERS, WRECKERS, CRANES, ETC.) OR FOR ANY OTHER REMOTE CONTROLLED APPLICATION.**
- 2. WHEN REELING IN CABLE UNDER NO LOAD, RELEASE THE REMOTE BUTTON WHEN THE HOOK IS A MINIMUM OF 3 FT (1 M) FROM THE WINCH FAIRLEAD. CAREFULLY JOG THE REMOTE CONTROL BUTTON UNTIL THE HOOK IS A MINIMUM OF 1 FT (.3M) FROM THE FAIRLEAD. DISENGAGE THE CLUTCH AND FINISH SPOOLING IN CABLE BY ROTATING THE DRUM BY HAND.**
3. When finished winching, turn transmitter off.
4. Do not pressure wash or steam clean the receiver. This can damage the receiver and adversely affect operation.
5. Refer to winch owner's manual for all winch operating instructions and warnings.

NOTES

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ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	282058	WIRELESS RECEIVER & TRANSMITTER KIT
2	1	251198	DIPOLE ANTENNA KIT
3	1	251234	SOLENOID KIT
4	1	251190	REPLACEMENT TRANSMITTER
5	1	*	REPLACEMENT BATTERY
6	2	416227	SCREW #10-24 X 3/4 TRUSS F/B
7	2		NUT #10-24 HEX LOCK
8	2	418140	FLAT WASHER #10 Z/P
9	1	440125	WIRE SPLICE
10	1	251235	TOGGLE SWITCH
11	2		TUBE CLAMP
12	1	440274	CABLE TIES
13	1	251197	WIRE KIT

* SONY CR2032 OR DURACELL DL2032



ANTENNA



MOUNTING SCREWS



REMOTE TRANSMITTER



WIRE KIT



CABLE TIE



TOGGLE SWITCH



WIRE SPLICE



REMOTE RECEIVER



SOLENOID



LOCK NUTS



TUBE CLAMP



FLATWASHERS

Before Beginning Installation

1. Disconnect power lead from winch to battery.
2. Disengage winch clutch.
3. Remove hood or cowling as necessary for easier access to installation area.
4. Locate & mark mounting locations for receiver, toggle switch, solenoid assembly, & antenna.

NOTE: Make sure locations are close enough for wiring connections to be made without making alterations to wire lengths. Solenoid assembly will be mounted to tube frame of ATV using supplied tube clamps, except Polaris models which mount directly to the ATV cross member under hood using supplied mounting screws.

For certain mounting applications, where the solenoid needs to be mounted at the rear of the vehicle, switch the battery and motor leads. This will allow the longer leads to reach the winch at the front of the vehicle.

The antenna will need a space of at least 15" wide under cowling or hood for mounting in the horizontal configuration required for best reception. Antenna is flexible and will follow the contour of the cowling or hood. The antenna should be mounted at least 10" from winch motor and battery leads.

Installing the Receiver

1. Insert plastic tie through mounting ears on receiver and secure receiver to location determined above.
2. Tighten plastic tie and clip excess.
3. Attach ground wire to ATV frame.

CAUTION: DO NOT ALTER THE LENGTH OF THE GROUND WIRE AS THIS WILL AFFECT PERFORMANCE OF THE REMOTE.

4. Attach wiring harness to receiver & route yellow and green wires to solenoid location.

Installing the Motor Leads (unless motor and battery leads are switched)

1. Connect black wire to #2 stud on motor.
2. Connect black with yellow stripe wire to #1 stud.
3. Route wires to solenoid location.

Connecting Wiring to Solenoid (unless motor and battery leads are switched)

NOTE: For clarification see wiring schematic on page 5.

1. Attach black with yellow stripe motor lead to lower right terminal stud “B” on solenoid.
2. Attach black motor lead to lower left terminal stud “C” on solenoid .
3. Attach connector with 2 yellow wires to the terminal directly above the black with yellow stripe motor lead.
4. Attach connector with 2 green wires to the terminal directly above the black motor lead.
5. Attach black battery lead to upper left terminal stud “E” on solenoid.
6. Attach red battery lead to upper right terminal stud “A” on solenoid.

Installing the Solenoid

1. Mount solenoid in location determined previously.
2. Secure using (1) tube clamp, (1) #10-24 screw, (1) flat washer, and (1) lock nut each side of solenoid assembly.

CAUTION: BE SURE THAT NO WIRE CONNECTIONS ARE IN CONTACT WITH EITHER THE ATV FRAME OR WITH EACH OTHER AS A DIRECT SHORT WILL OCCUR.

Installing the Toggle Switch

1. Route red, yellow and green wires to toggle switch location.
2. Drill 1/2” hole in location for toggle switch installation.
3. Insert switch through hole drilled in previous step.
4. Place directional plate over switch and secure using knurled nut. Using wrench, tighten backup nut securely against inside of instrument cover. Make sure directional plate is installed in the same direction as the toggle switch movement.
5. Place rubber boot over switch and tighten securely.

Wiring the Toggle Switch

NOTE: For clarification see wiring schematic on page 5.

1. Connect red wire to center spade.
2. Connect green wire to the toggle switch terminal in the “OUT” position.
3. Connect the yellow wire to the toggle switch terminal in the “IN” position.

Connecting the Power Lead

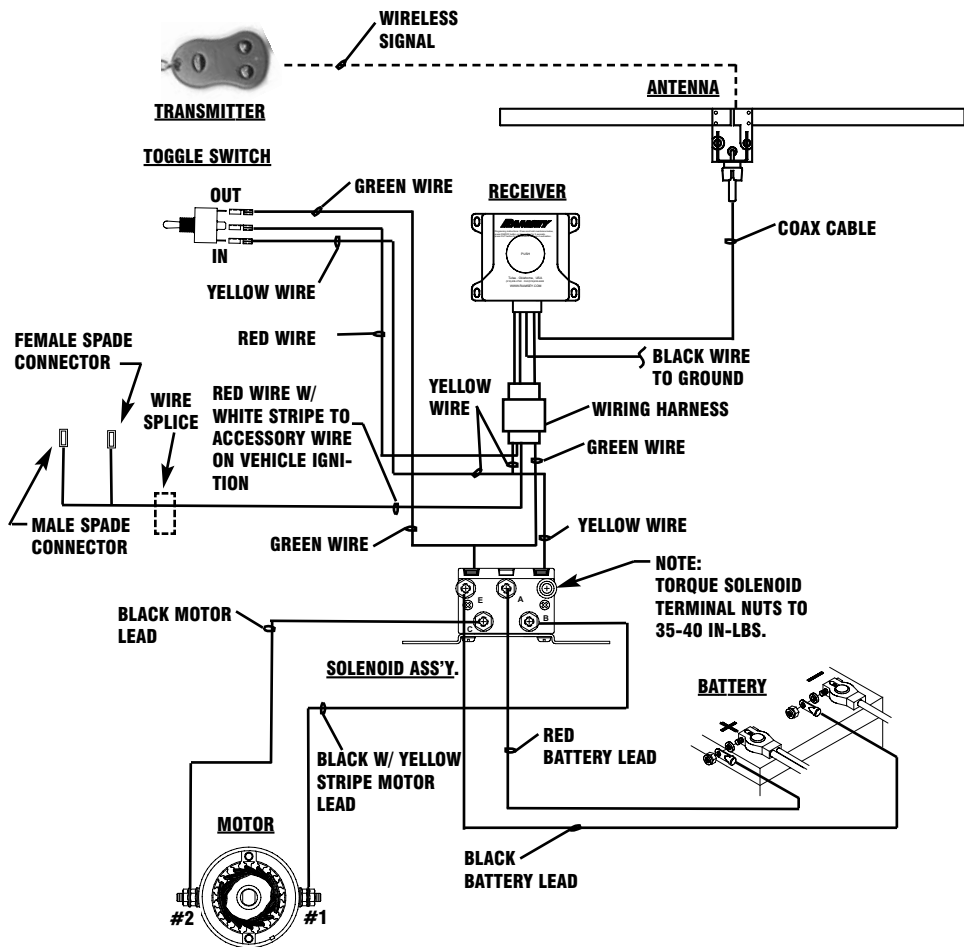
1. Locate accessory wire from ATV ignition.
NOTE: ATV accessory wire should have 12 volts only when ignition key is on. Receiver should only have power when vehicle ignition is ON.
2. Connect red wire with white stripe to accessory wire. Use supplied quick splice connector if needed.

Installing the Antenna

NOTE: For clarification see wiring schematic on page 5.

1. Clean predetermined mounting surface with Isopropyl alcohol and buff dry. (In ATVs without hoods the best place to mount the antenna will be the underside of the ATV cowling in the highest possible position.)
2. Remove backing from top side of double-stick tape and apply to back side of pc board. Remove backing from other side of double-stick tape and position pc board in center on top inside surface of cowling or hood at the predetermined mounting location.
3. Remove backing from copper tape. Carefully affix tape to terminal on right side of pc board and follow contour of inside of cowling.
DO NOT ALTER LENGTH OF THE TAPE. Repeat for left side.
4. Route coax cable up from receiver to antenna and plug in at pc board.

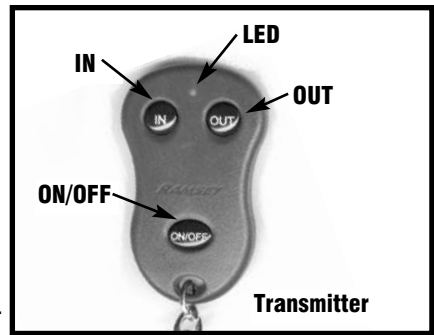
Electrical Schematic



For certain mounting applications, where the solenoid needs to be mounted at the rear of the vehicle, switch the battery and motor leads. In this case, connect the black w/yellow stripe lead to the positive (+) terminal of the battery, and the longer black lead to the negative (-) terminal. Connect the red lead and the shorter black lead to the motor terminals.

Testing/Operation

1. Reconnect the positive power lead from solenoid to battery.
2. Pull approximately 20 ft of cable off the winch by hand.
3. Re-engage the winch clutch.
4. Test the remote transmitter. The transmitter has push buttons labeled according to their function. To operate the winch, hold "ON/OFF" button for 2 seconds to activate the "IN" and "OUT" functions. (1 flash indicates transmitter is "ON", 2 flashes indicate transmitter is "OFF").
6. Run winch in the "OUT" direction briefly. Make sure the motor has stopped fully before reversing to prevent premature solenoid failure. Run winch in the "IN" direction briefly.
7. Follow instructions in your winch owner's manual for properly reeling in the rest of the cable. The transmitter is clearly labeled and a red LED flashes when the winch is in operation. To turn transmitter off, press and hold the "ON/OFF" button for 2 seconds to disable the transmitter when winch is not in use. This will prolong the battery life of the transmitter. The transmitter automatically turns off after 20 minutes.



PROGRAMMING THE RECEIVER FOR USE WITH A REPLACEMENT TRANSMITTER

When you purchase a replacement transmitter, it will be necessary to program your receiver to accept the code for the new transmitter. To program the receiver, press and hold membrane located in the center of receiver face (area marked "push"). Press and hold "ON/OFF" button on transmitter for 3 seconds. Press and hold "OUT" button for 3 seconds or until winch activates.

CAUTION: The center membrane area of the receiver face must only be pressed when programming a new transmitter.

Trouble Shooting Guide

Condition	Possible Cause	Correction
Transmitter won't operate	<p>Transmitter is off.</p> <p>Low transmitter battery voltage.</p> <p>Transmitter temperature below 0°F (-18°C).</p>	<p>Turn transmitter on (See Testing/Operation) .</p> <p>Replace Battery.</p> <p>In extremely cold temperatures, keep transmitter in a pocket of innermost layer of clothing when not in use.</p>
Remote receiver will not operate.	<p>Bad ground connection.</p> <p>Receiver not coded with transmitter.</p>	<p>Make sure receiver ground wire has good connection to ATV ground.</p> <p>Program receiver (refer to Programming the Receiver).</p>
Intermittent operation.	<p>Antenna mounted too close to winch motor and battery leads.</p> <p>External environmental conditions causing intermittent operation in a specific transmitter location.</p> <p>Signal deflecting off of land mass or solid structures.</p> <p>Transmitter out of operating range.</p> <p>Operating within 50 ft. of any similar device.</p> <p>Low ATV battery voltage.</p>	<p>Mount antenna at least 10 inches from winch motor and battery leads.</p> <p>Move the transmitter around the ATV until normal operation resumes .</p> <p>Keep transmitter in direct line of sight with antenna for optimal operation.</p> <p>Stay within 50 ft. of antenna for optimal operation.</p> <p>Make sure no similar devices are within 50 ft. of vehicle.</p> <p>Make sure ATV battery voltage is above 9.5 volts.</p>

NOTES

Warranty Information

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 wireless remote, please follow instructions for prompt service on all warranty claims.

Limited Lifetime Warranty

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

The wireless remote carries a limited 1-year warranty.

The obligation under this warranty, statutory or otherwise, is limited to the replacement or repair at the manufacturer's 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 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.



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