



Warn RT25 Winch (Kit P/N 715 001 347)
Warn RT30 Winch (Kit P/N 715 001 348)

The following symbols may be used in this document:

⚠ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION Indicates a hazard situation which, if not avoided, could result in minor or moderate injury.

NOTICE Indicates an instruction which, if not followed, could severely damage vehicle components or other property.

⚠ WARNING


- For safety reasons, this kit must be installed by an authorized BRP dealer.
- This kit is designed for specific applicable models only (authorized BRP dealers will confirm model(s)). It is not recommended for units other than the one (those) for which it was sold.
- This instruction sheet **MUST** be given to the purchaser.
- Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one.
- Torque wrench tightening specifications must strictly be adhered to.
- Always wear **EYE PROTECTION AND APPROPRIATE GLOVES** when using power tools.
- Unless otherwise specified, engine must be **OFF** when performing any operation on the vehicle.
- Always be aware of parts that can move, such as wheels, transmission components, etc.
- Some components may be **HOT**. Always wait for engine to cool down before performing work.











FASTENER SIZE	TORQUE TO BE USED WHEN TORQUES ARE NOT SPECIFIED IN TEXT			
	5.8 GRADE	8.8 GRADE	10.9 GRADE	12.9 GRADE
M4	1.8 ± 0.2 N•m (16 ± 2 lbf•in)	2.8 ± 0.2 N•m (25 ± 2 lbf•in)	3.8 ± 0.2 N•m (34 ± 2 lbf•in)	4.5 ± 0.5 N•m (40 ± 4 lbf•in)
M5	3.3 ± 0.2 N•m (29 ± 2 lbf•in)	5.0 ± 0.5 N•m (44 ± 4 lbf•in)	7.8 ± 0.7 N•m (69 ± 6 lbf•in)	9.0 ± 1.0 N•m (80 ± 9 lbf•in)
M6	7.5 ± 1.0 N•m (66 ± 9 lbf•in)	10.0 ± 2.0 N•m (89 ± 18 lbf•in)	12.8 ± 2.2 N•m (113 ± 19 lbf•in)	16.0 ± 2.0 N•m (142 ± 18 lbf•in)
M8	15.3 ± 1.7 N•m (135 ± 15 lbf•in)	24.5 ± 3.5 N•m (18 ± 3 lbf•ft)	31.5 ± 3.5 N•m (23 ± 3 lbf•ft)	40.0 ± 5.0 N•m (30 ± 4 lbf•ft)
M10	29 ± 3 N•m (21 ± 2 lbf•ft)	48 ± 6 N•m (35 ± 4 lbf•ft)	61 ± 9 N•m (45 ± 7 lbf•ft)	73 ± 7 N•m (54 ± 5 lbf•ft)
M12	52 ± 6 N•m (38 ± 4 lbf•ft)	85 ± 10 N•m (63 ± 7 lbf•ft)	105 ± 15 N•m (77 ± 11 lbf•ft)	128 ± 17 N•m (94 ± 13 lbf•ft)
M14	85 ± 10 N•m (63 ± 7 lbf•ft)	135 ± 15 N•m (100 ± 11 lbf•ft)	170 ± 20 N•m (125 ± 15 lbf•ft)	200 ± 25 N•m (148 ± 18 lbf•ft)
M16	126 ± 14 N•m (93 ± 10 lbf•ft)	205 ± 25 N•m (151 ± 18 lbf•ft)	255 ± 30 N•m (188 ± 22 lbf•ft)	305 ± 35 N•m (225 ± 26 lbf•ft)
M18	170 ± 20 N•m (125 ± 15 lbf•ft)	273 ± 32 N•m (201 ± 24 lbf•ft)	330 ± 25 N•m (243 ± 18 lbf•ft)	413 ± 47 N•m (305 ± 35 lbf•ft)

NOTE: The illustrations in this document show typical construction of the different assemblies and may not reproduce the full detail or exact shape of the parts; however, they represent parts that have the same or similar function.

Installation time is approximately 2.0 hours.

PARTS TO BE INSTALLED

ITEM	DESCRIPTION	P/N	QTY
P1	Winch RT 30 	710 002 575	1
P2	M8 X 20 Allen screw 	205 082 044	4
P3	M8 Lock washer 	234 181 401	4
P4	Winch cable guide 	705 001 256	1
P5	M10 X 35 Allen screw 	205 003 544	2
P6	M10 Elastic flanged nut 	233 201 434	2
P7	Hook assembly 	705 005 955	1
P8	Clevis pin 	250 400 021	1
P9	Cotter pin 	250 400 022	1
P10	Winch electric cable (6 GA for RT30 Winch)	710 002 955	1
	Winch electric cable (8 GA for RT25 Winch)	710 002 954	

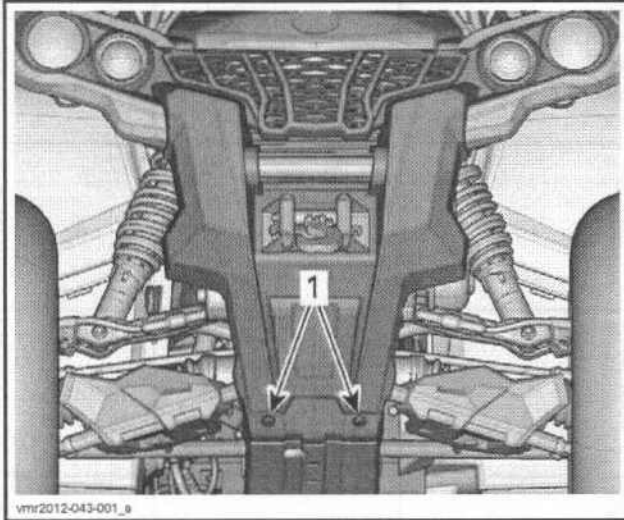
ITEM	DESCRIPTION		P/N	QTY
P11	Winch solenoid		710 002 966	1
P12	M6 X 20 Flanged screw		210 262 080	3
P13	M6 Elastic nut		232 561 434	6
P14	Positive battery cable		710 002 680	1
P15	Locking tie		414 115 200	9
P16	Winch switch		710 002 724	1
P17	Winch switch support		710 002 631	1
P18	6-32 x 1/4 hex.screw		250 000 153	2
P19	Remote control (RT30 Model only)		710 002 967	1
P20	Solenoid ground cable		710 002 561	1

INSTRUCTIONS

Installation Preparation (Outlander)

Front Skid Plate

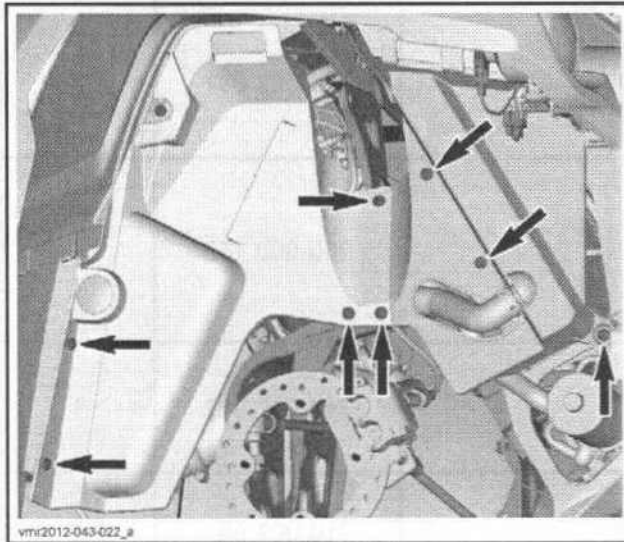
1. Remove lower front skid plate retaining screws.



1. Front skid plate lower retaining screws

RH Inner Fender Removal

1. Safely lift and support front of vehicle, block rear wheels.
2. Remove both front wheels.
3. Remove and keep the following plastic rivets from inner fender panels.

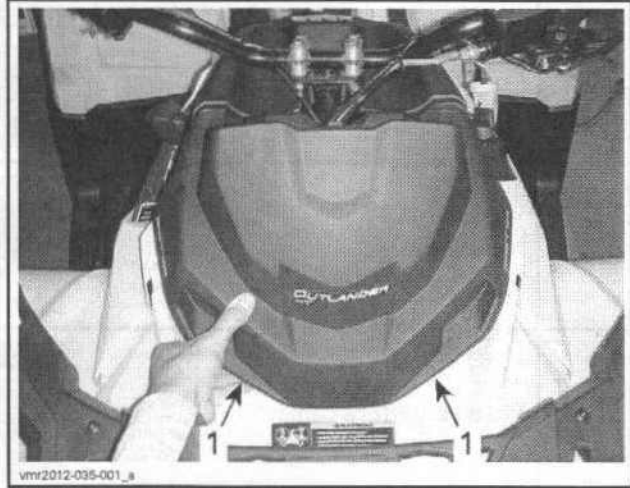


SOME PARTS REMOVED FOR CLARITY

4. Remove RH inner fender panels.

Gauge Support Removal

1. Push in on both sides of its leading edge to disengage it.
 2. Lift up and pull forward to remove.
- NOTE: There are a total of 6 tabs that retain the gauge support.



OUTLANDER GAUGE SUPPORT REMOVAL
1. Push in and lift up here on both sides

Console Removal

1. Remove seat.
2. Lift rear portion of console upwards.

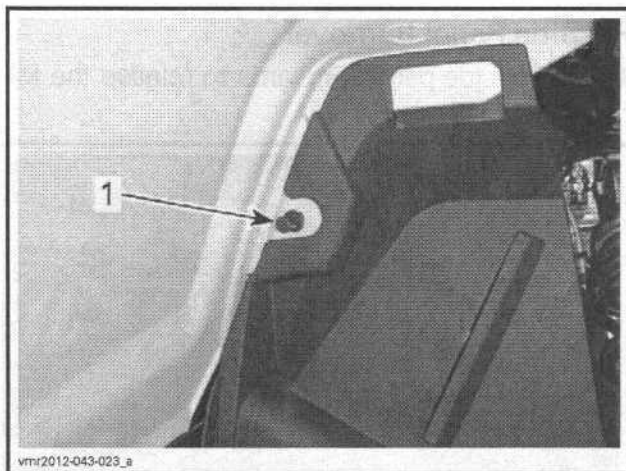


LIFT REAR PORTION

3. Pull console rearwards to remove console.

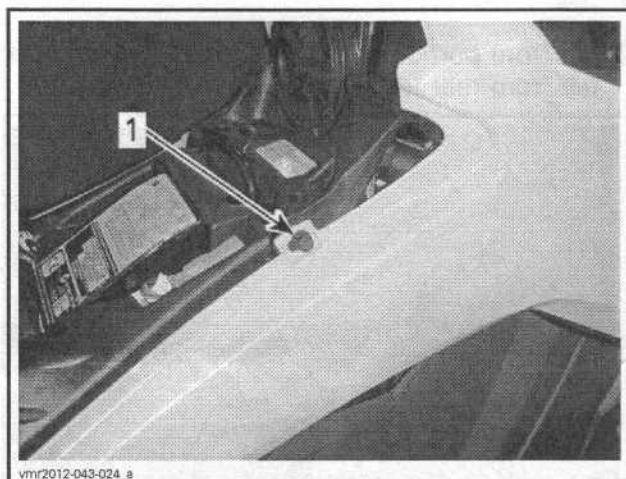
RH Side Panel Removal

1. Remove plastic rivet securing side panel to inner fender panel.



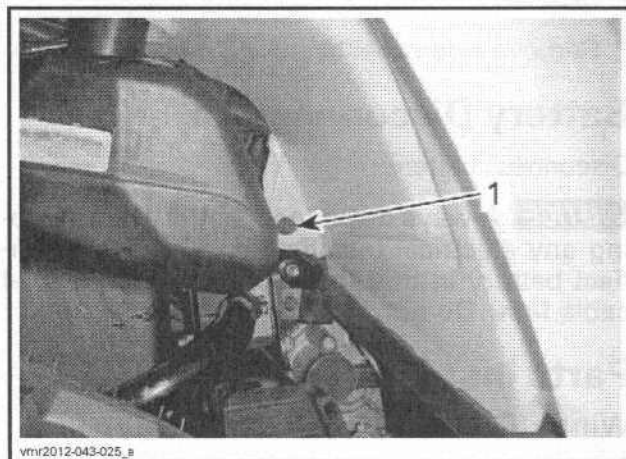
1. Plastic rivet securing side panel

2. Remove plastic rivet securing side panel to air filter housing.



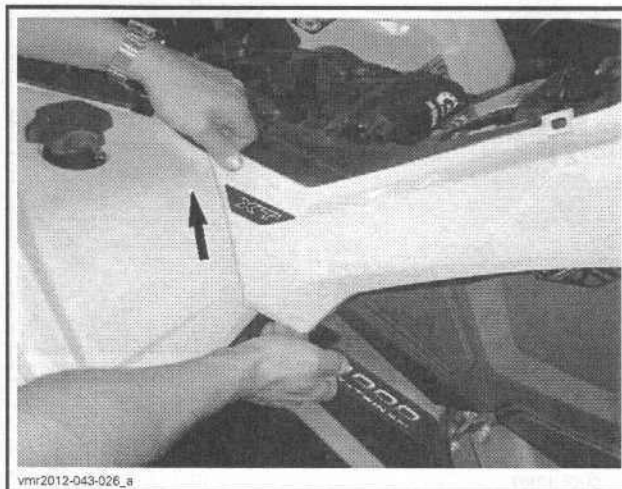
1. Plastic rivet securing side panel

3. Remove plastic rivet securing side panel to rear fender.



1. Plastic rivet securing side panel

4. Lift rear portion of side panel then pull it towards outside.

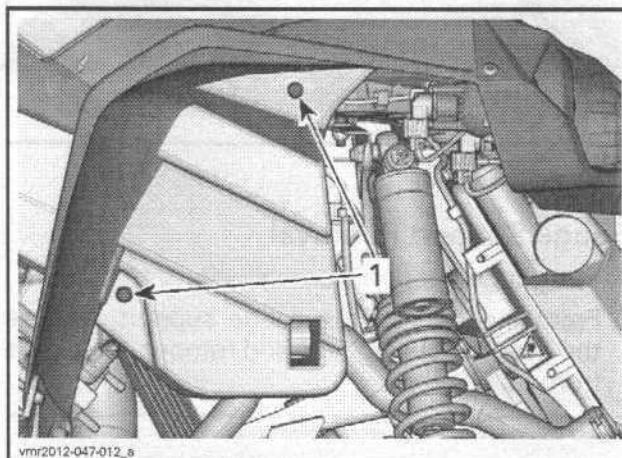


LIFT REAR PORTION

Installation Preparation (Renegade)

RH Inner Fender Panel Removal

1. Safely lift and support front of vehicle, block rear wheels.
2. Remove both front wheels.
3. Remove the following plastic rivets from RH inner fender panel.

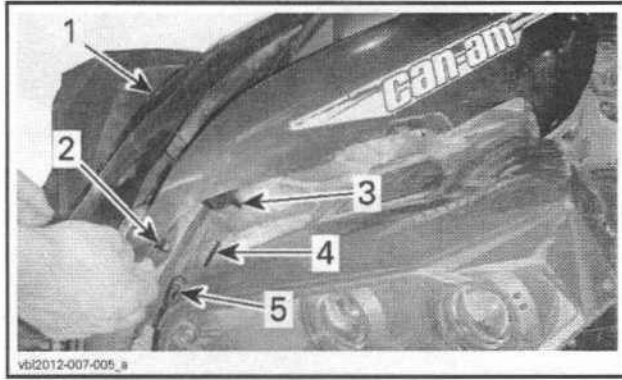


SOME PARTS REMOVED FOR CLARITY

1. Plastic rivets

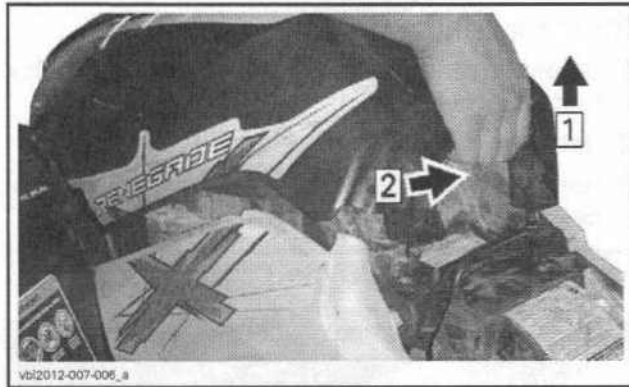
Console Removal

1. Remove seat.
2. Pull both front pins out of their grommets.
3. Pull both front hooks out of their slots.



- 1. Console
- 2. Pin
- 3. Hook
- 4. Slot
- 5. Grommet

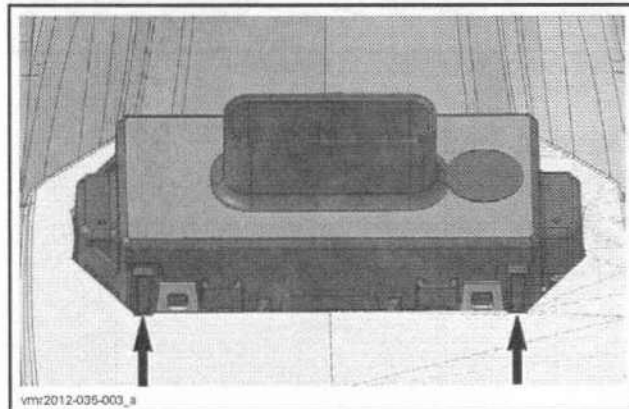
4. Pull rear portion of the console up to pull the pins of their grommets.
5. Remove console by pulling it rearwards.



- Step 1: Pull upwards
- Step 2: Pull rearwards

Gauge Support Removal

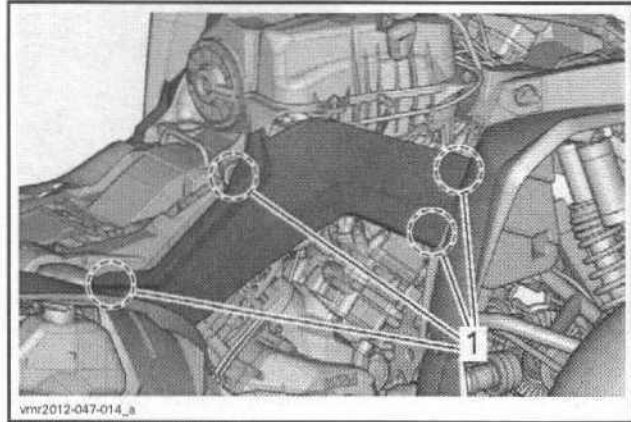
1. Pull gauge support from vehicle.
2. From the back of the gauge support, release the gauge retaining tabs and remove the gauge from its support.



GAUGE RELEASE TABS (4) - RENEGADE MODEL

RH Side Panel Removal

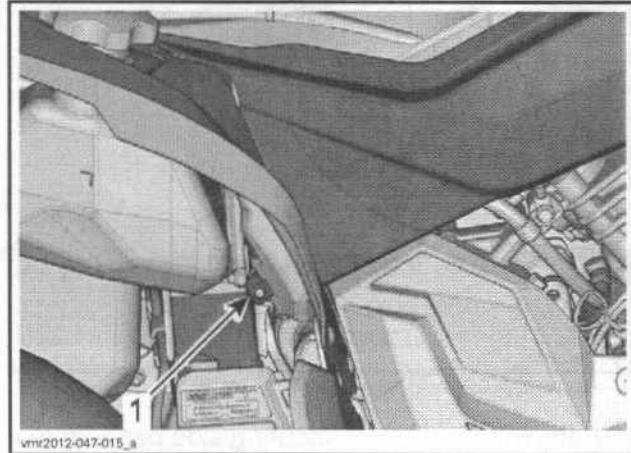
1. Pull RH side panel outwards to release the following tabs.



RH SIDE PANEL SHOWN

- 1. Tabs

2. Lift front portion of side panel to release lower tab from rear fender.



RH SIDE PANEL SHOWN

- 1. Lower tab

3. Remove side panel by pulling it outwards.

Battery Disconnection

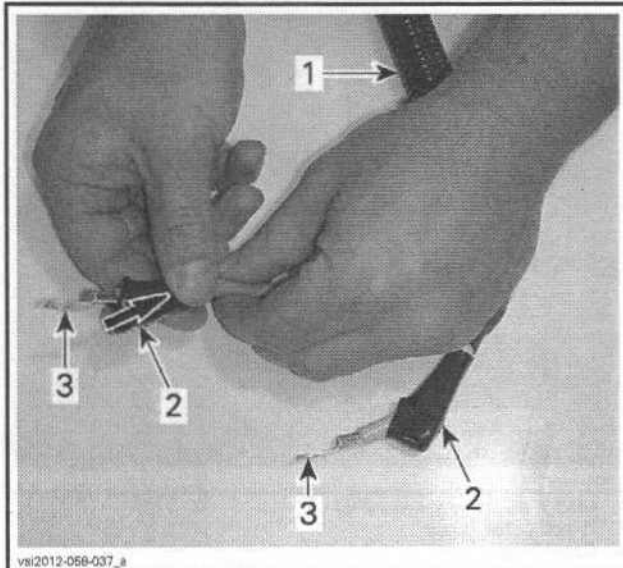
Disconnect battery.

NOTICE Always disconnect battery before doing any electrical installation. Always disconnect battery in this specified order, BLACK (-) cable first. Do not place tools on battery.

Parts Installation

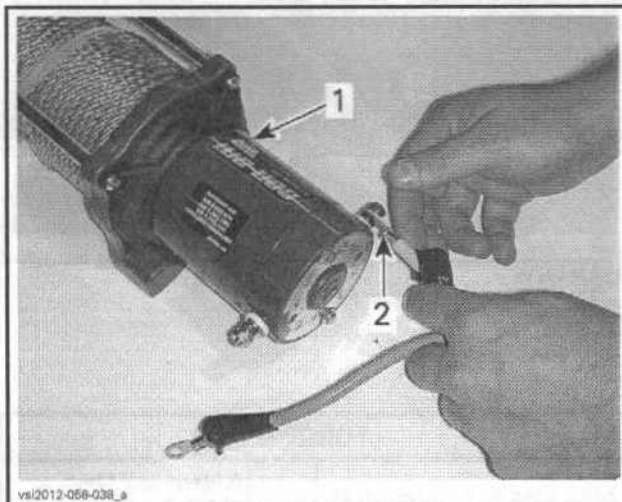
Winch (Outlander)

1. Insert connector protective caps over terminals at both ends of winch electric cable [P10].



- vsi2012-058-037_a
1. Winch electric cable [P10]
 2. Connector protective caps
 3. Wire terminals

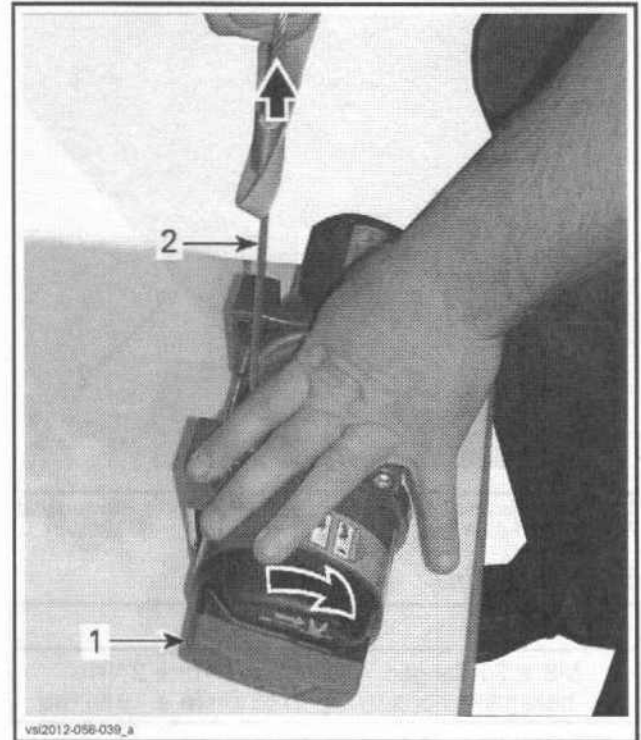
2. Loosely install winch electric cable [P10] on winch by connecting wires as follow :
 - BLUE wire on stud with BLUE dot
 - YELLOW wire on stud with YELLOW dot.



- vsi2012-058-038_a
1. Winch [P1]
 2. Wire terminal

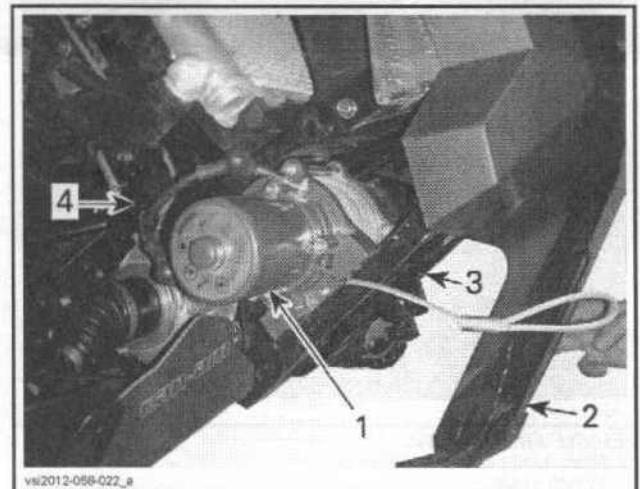
NOTE: Apply dielectric grease (P/N 293 500 004) on connections.

3. Disengage winch [P1] clutch and pull on cable to get approximately 30 cm (12 in).



- vsi2012-058-039_a
1. Winch RED clutch button
 2. Winch cable to pull

4. Insert winch from the right side of vehicle with red clutch control button entering first.

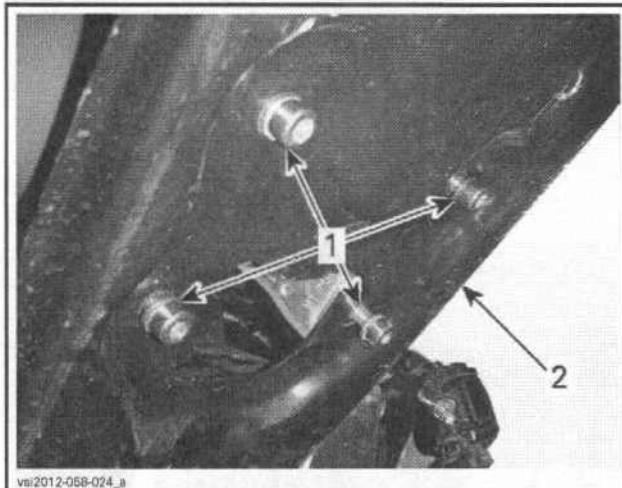


- vsi2012-058-022_a
- RIGHT FRONT VIEW**
1. Winch motor
 2. Front plastic skid plate
 3. Winch fasteners holes
 4. Winch electric cable

NOTE: Winch motor should be on right side, when looking from front of vehicle.

5. Secure winch inside front skid plate with:
 - 4 M8 x 25 flanged hexagonal bolts [P2]
 - 4 M8 lock washers [P3]

NOTE: You need to pull on plastic skid plate in order to see the holes.

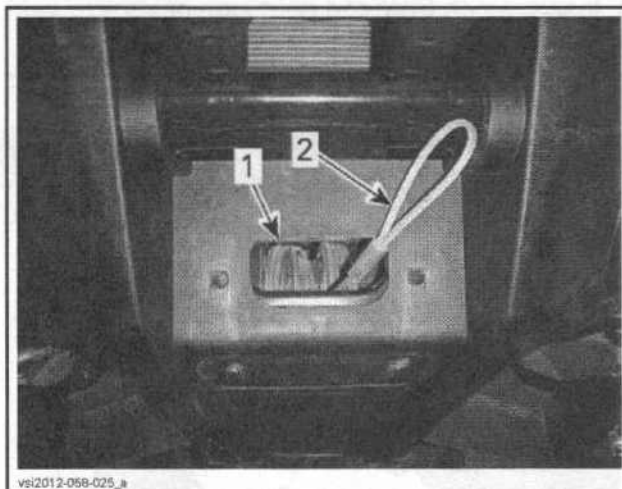


vsi2012-058-024_a
 1. M8 x 25 flanged hexagonal bolts [P2] and M8 lock washers[P3]
 2. Front skid plate

6. Torque bolts.

TORQUE	
M8 x 25 flanged hexagonal bolts	16 N•m ± 2 N•m (142 lbf•in ± 18 lbf•in)

7. Insert winch cable through front skid plate existing hole.

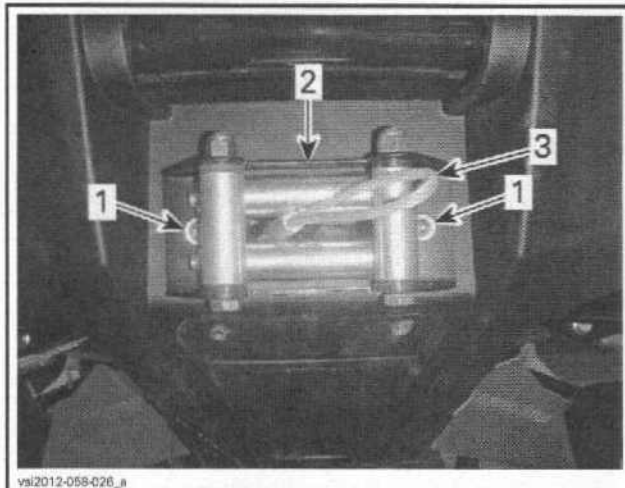


vsi2012-058-025_a
VEHICLE FRONT VIEW
 1. Front skid plate existing hole
 2. Winch cable

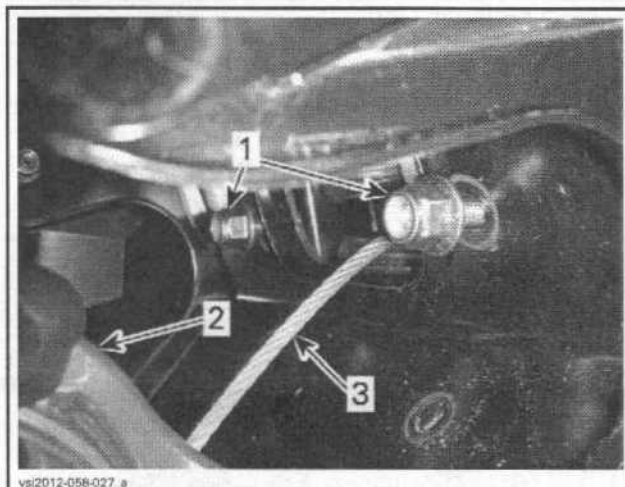
8. Install winch cable guide [P4] over skid plate existing hole.

9. Route cable through guide rollers.

10. Secure winch cable guide with M10 X 35 Allen screw [P5] and M10 Elastic flanged nut [P6].



vsi2012-058-026_a
 1. M10 X 35 Allen screws [P5]
 2. Winch cable guide
 3. Cable loop



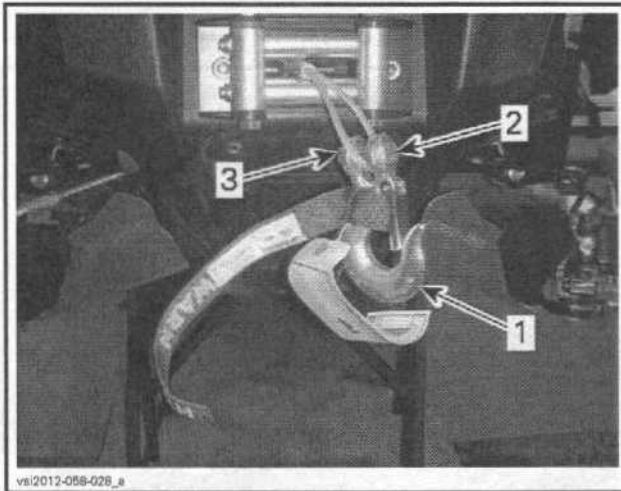
vsi2012-058-027_a
REAR VIEW
 1. M10 Elastic flanged nuts [P6]
 2. Winch
 3. Cable

11. Torque nuts.

TORQUE	
M10 Elastic flanged nuts	16 N•m ± 2 N•m (142 lbf•in ± 18 lbf•in)

12. Insert hook [P7] in cable loop and secure to cable with:

- Clevis pin [P8]
- Cotter pin [P9]

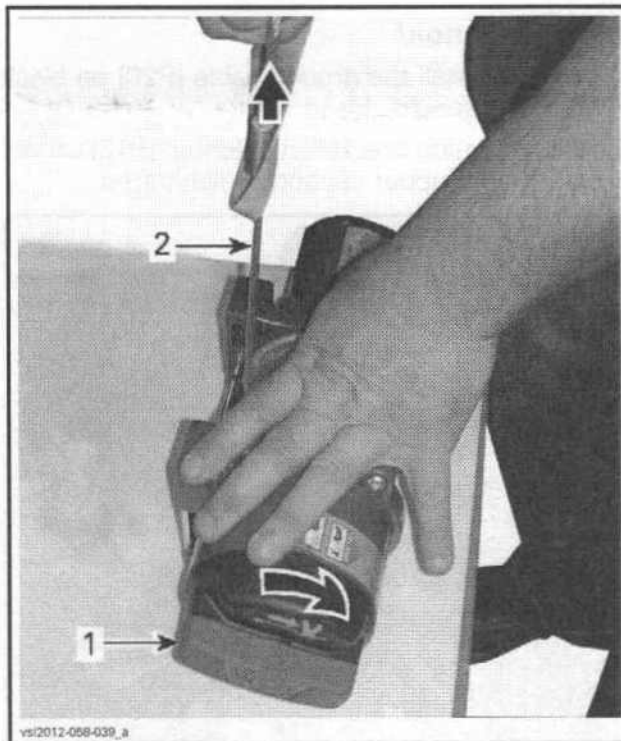


- vsi2012-058-028_a
1. Hook
 2. Clevis pin [P9]
 3. Cotter pin [P10]

Winch (Renegade)

NOTE: An adaptor, winch mounting plate (P/N 715 000 927), is necessary to install the winch on the Renegade.

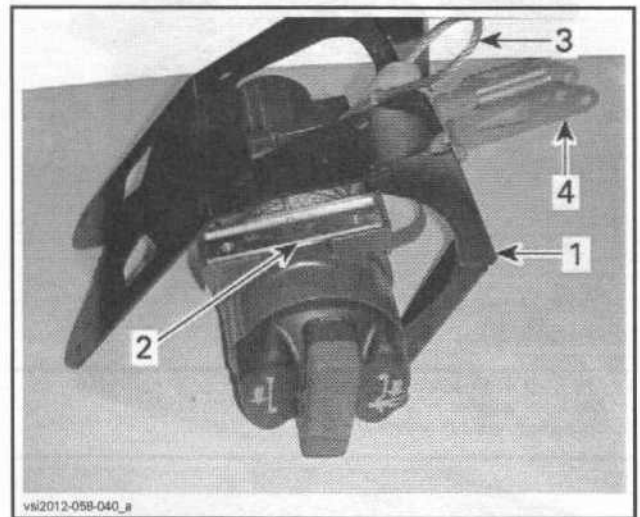
1. Put winch [P1] on your work table, disengage clutch and pull on cable loop to get approximately 30 cm (12 in) of cable.



- vsi2012-058-039_a
1. Winch RED clutch button
 2. Winch cable to pull

2. Install winch [P1] fastening plate upwards and put winch mounting plate over winch as shown. Insert cable through opening in mounting plate.

NOTE: The winch mounting plate, in step 2, is part of the (P/N 715 000 927) kit to install winch on the Renegade model.

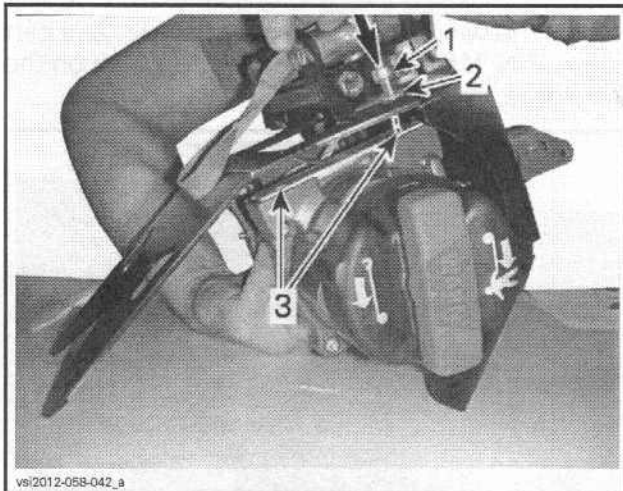


- vsi2012-058-040_a
1. Winch mounting plate
 2. Winch fastening plate
 3. Cable
 4. Bumper fastening plate

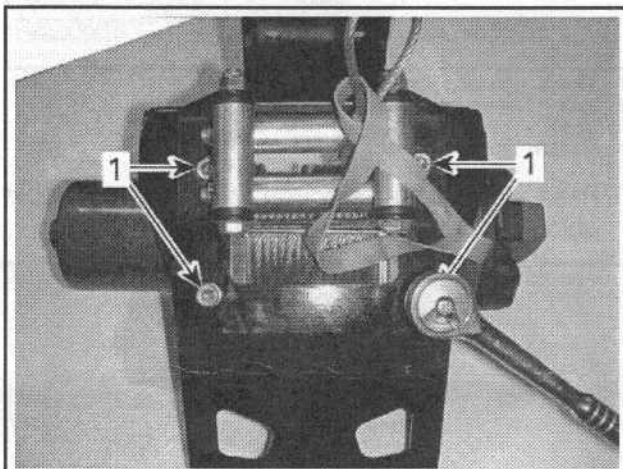
3. Pass winch cable through the rollers of cable guide [P4].



- vsi2012-058-041_a
4. While holding the winch [P1] from under with one hand secure cable guide [P4] with M8 X 20 Allen screws [P2] and M8 Lock washers [P3] through mounting plate in winch with your other hand.

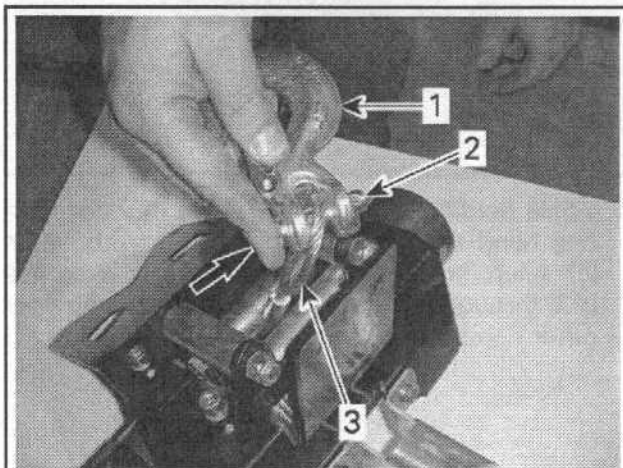


- vsi2012-058-042_a
1. M8 X 20 Allen screw [P2]
 2. M8 Lock washer [P3]
 3. Threaded holes in winch [P1]



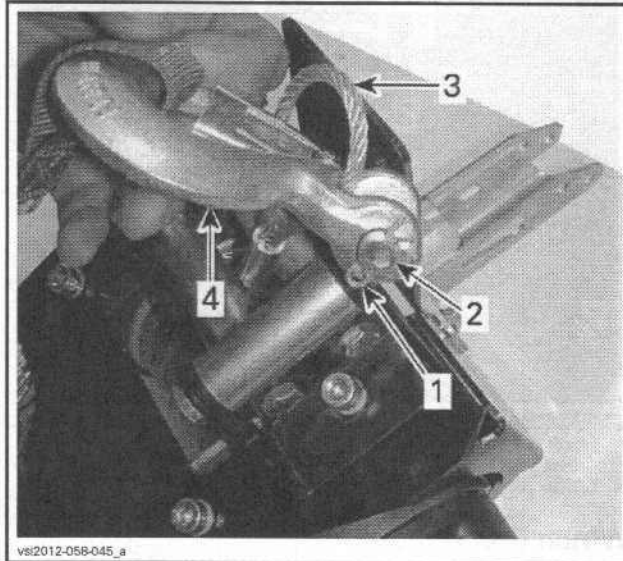
- vsi2012-058-043_a
- TOP VIEW**
1. M8 X 20 Allen screws [P2] and M8 Lock washers [P3]

5. Cut off rubber band on winch cable, insert hook assembly [P7] over cable loop and secure hook to cable with clevis pin [P8].



- vsi2012-058-044_a
1. Hook assembly [P7]
 2. Clevis pin [P8]
 3. Winch cable loop

6. Secure clevis pin [P8] with cotter pin [P9].

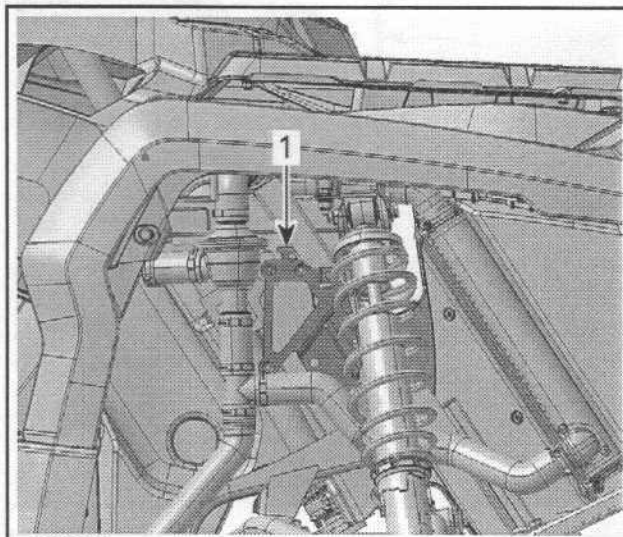


- vsi2012-058-045_a
1. Cotter pin [P9]
 2. Clevis pin [P8]
 3. Winch cable loop
 4. Hook [P7]

7. Install winch electric cable [P10] on winch [P1] motor as in step 1 and 2 of Outlander winch installation.

Winch Solenoid

1. Loosely install the ground cable [P20] on black stud of solenoid. Hand tight.
2. Find mounting bracket of solenoid [P12] on RH front frame upper section as illustrated.

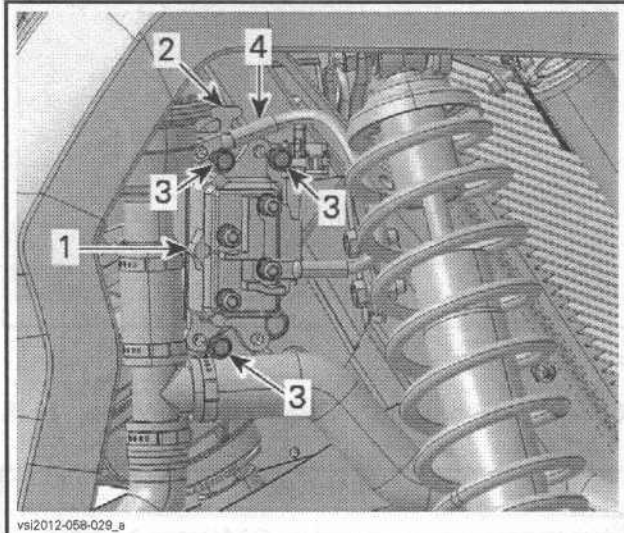


- vsi2012-038-001_a
- RIGHT FRONT VIEW**
1. Solenoid mounting bracket location

3. Install solenoid [P12] on frame bracket with M6 X 20 Flanged screws [P13] and M6 Elastic nuts [P14].

NOTE: Winch solenoid is held with only 3 fasteners.

4. Install other end of ground cable under upper left screw as illustrated.



1. Solenoid [P12]
2. Solenoid mounting bracket
3. M6 X 20 Flanged screws [P13]
4. Ground cable [P22]

5. Torque screws.

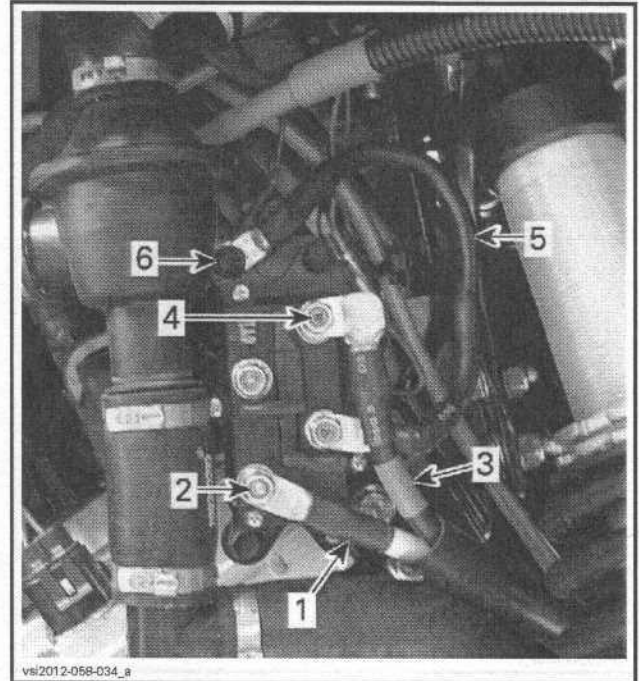
TORQUE	
M6 X 20 Flanged screws	7 N•m ± 1 N•m (62 lbf•in ± 9 lbf•in)

Wiring Winch to Solenoid

1. Route BLUE and YELLOW wires from winch [P1] to winch solenoid [P11].
2. Find best possible routing and secure with locking ties [P15] on frame.

NOTICE Make sure that all wires/cables are not in contact with any moving parts or sharp edges.

3. Install the blue wire with the 90 degree terminal on the blue stud of solenoid and the yellow wire on the yellow stud.



WINCH SOLENOID CONNECTIONS

1. Yellow wire
2. Yellow stud
3. Blue wire
4. Blue stud
5. Ground wire
6. Ground wire to frame

4. Torque wiring connection nuts at solenoid and winch.

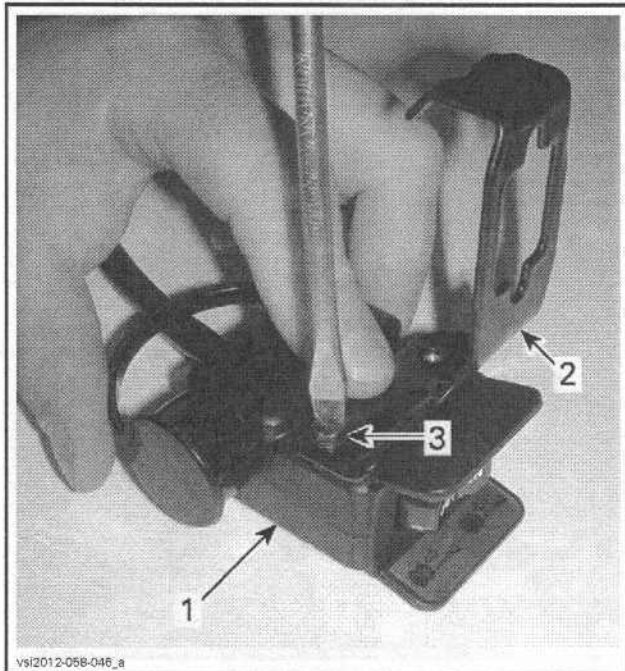
TORQUE	
Wiring connection nuts at solenoid and winch	4.5 N•m ± 0.5 N•m (40 lbf•in ± 4 lbf•in)

NOTE: Apply dielectric grease (P/N 293 500 004) on connections.

5. Slide connector protective caps over terminals.

Winch Control Switch

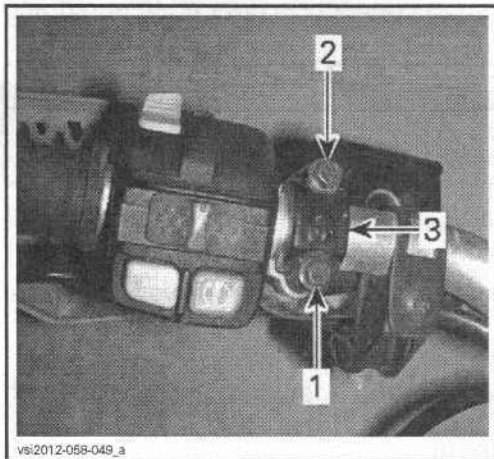
1. Install winch control switch [P16] on winch switch support [P17] with two 6-32 x 1/4 hex. screws [P20].



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1. Winch control switch [P16]
2. Winch switch support [P17]
3. 6-32 x 1/4 hex. screw [P20]

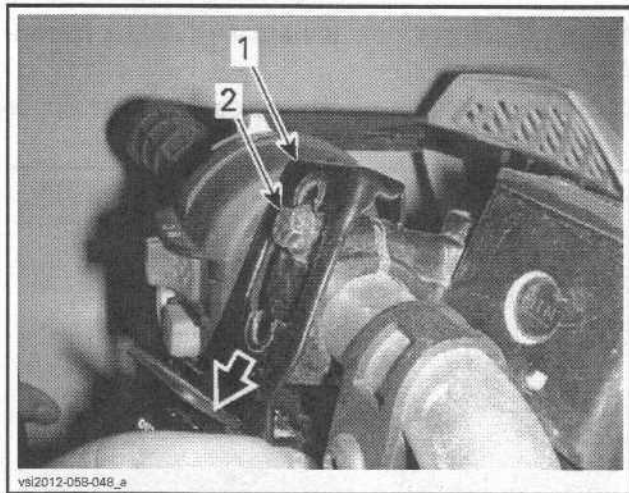
2. Remove the bottom screw holding LH brake handle over handlebars and unscrew the upper screw a few turns.



vsi2012-058-049_a

1. Screw to be loosen
2. Screw to be removed
3. Brake handle

3. Hook winch switch support [P17] over previously loosen upper screw of left brake handle.

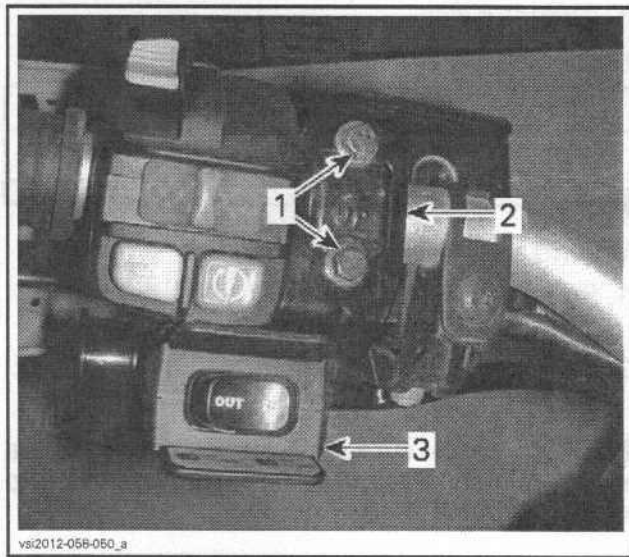


vsi2012-058-048_a

1. Switch support [P17]
2. Loose upper screw

4. Reinstall bottom screw and torque both screws.

TORQUE	
Brake handle screws	8.5 N•m ± 1.5 N•m (75 lbf•in ± 13 lbf•in)

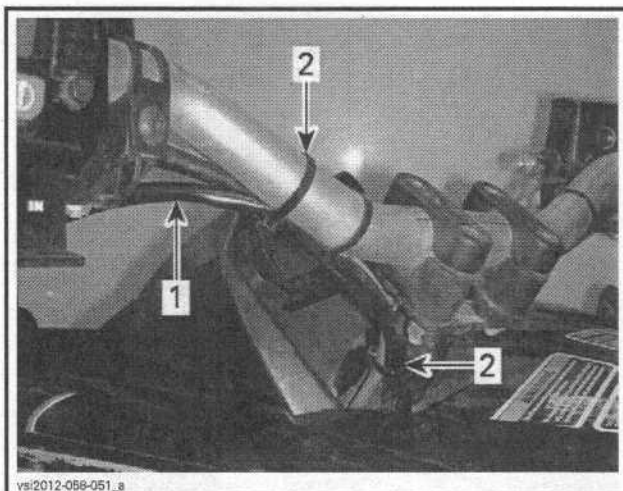


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1. Screws to be torqued
2. Switch support [P17]
3. Winch control switch [P16]

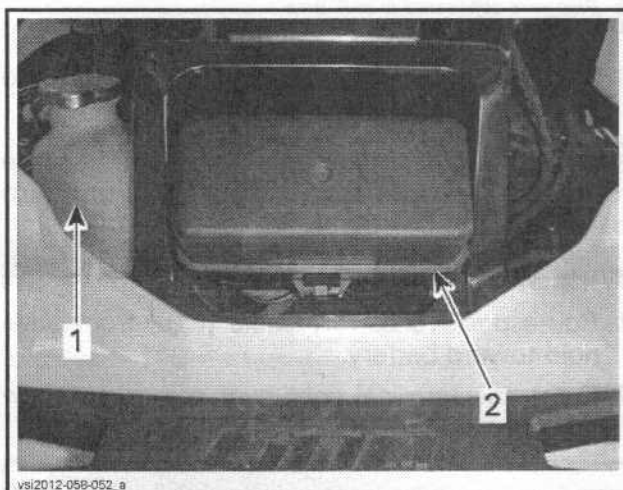
5. Route winch control switch harness along handlebars toward accessory connector located behind fuse box in front of vehicle. Secure control switch harness to handlebars and other harness with locking ties [P15].

NOTICE Make sure that all wires/cables are not in contact with any moving parts or sharp edges.



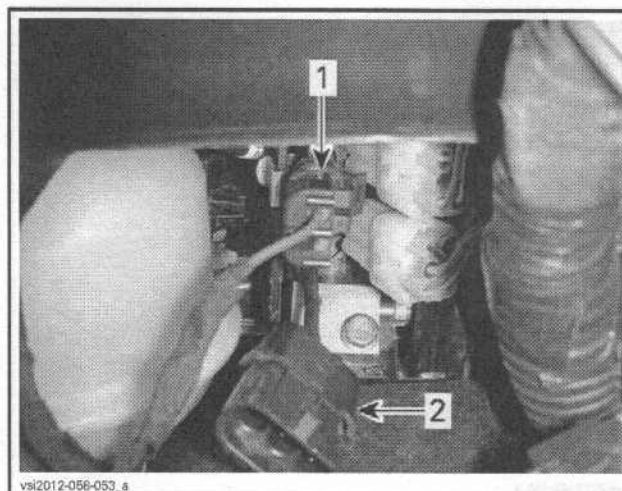
1. Control switch harness
2. Locking ties [P15]

6. Locate fuse box in front of vehicle near the coolant expansion tank, unclip fuse box and pull it out.



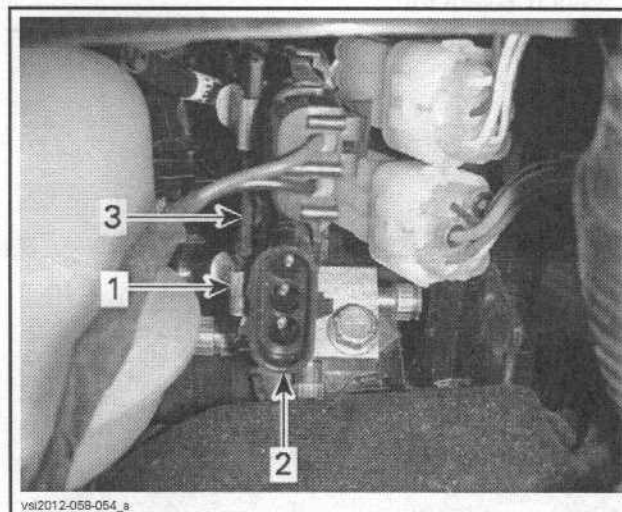
1. Fuse box
2. Coolant expansion tank

7. Route winch control switch connector under 2 wire connector as shown.



BEHIND FUSE BOX VIEW
1. 2 wire connector
2. Winch control switch connector

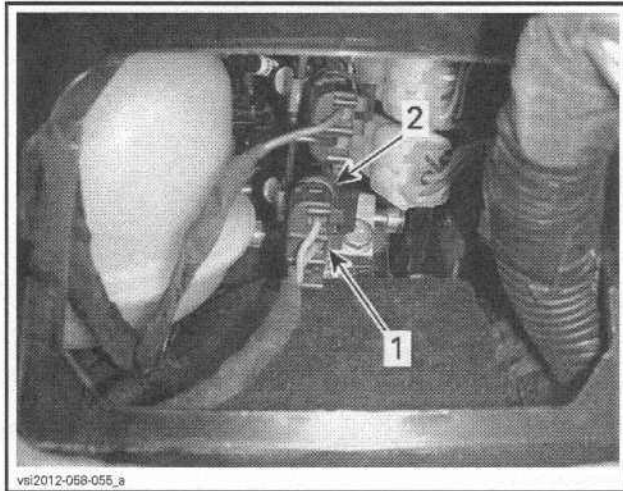
8. Install spring clip on control switch connector and hook spring clip to vertical plastic plate just like the one above.



1. Spring clip
2. Winch control switch connector
3. Vertical plastic plate

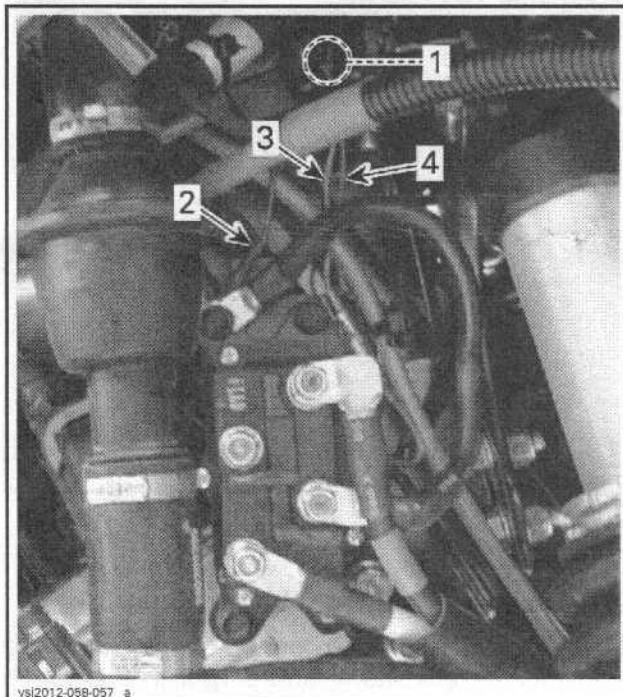
Connecting Control Switch to Solenoid

1. Find accessory 3 wire connector, hanging loose in this compartment, and plug it in the winch control connector.



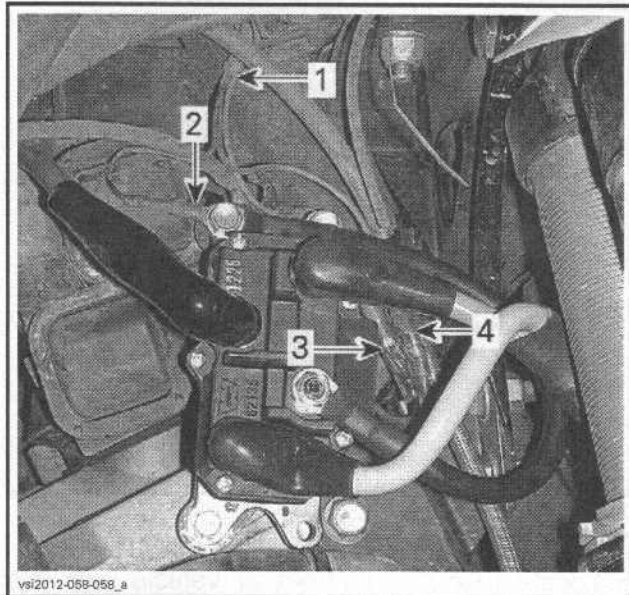
vsi2012-058-055_a
 1. Accessory 3 wire connector
 2. Winch control switch connector

2. Reinstall fuse box.
3. Go under right front fender and find the other end of accessory connector harness (close to winch solenoid).



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OUTLANDER SOLENOID VIEW
 1. Accessory connector harness
 2. Black wire
 3. Blue wire
 4. Green wire

4. Black wire terminal connects to chassis ground.
5. Plug winch control wires to same color solenoid connectors.



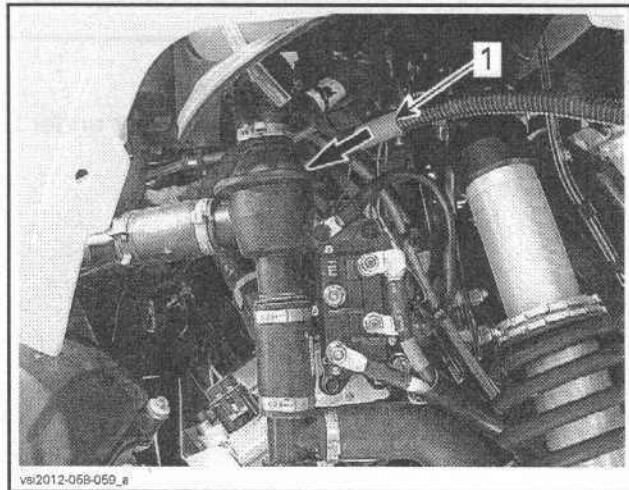
vsi2012-058-058_a
RENEGADE SOLENOID VIEW
 1. Accessory connector harness
 2. Black wire to chassis ground
 3. Blue wire connected to blue wire
 4. Green wire connected to green wire

6. Secure wires with provided locking ties [P15] to frame or other wires.

NOTICE Make sure that all wires/cables are not in contact with any moving parts or sharp edges.

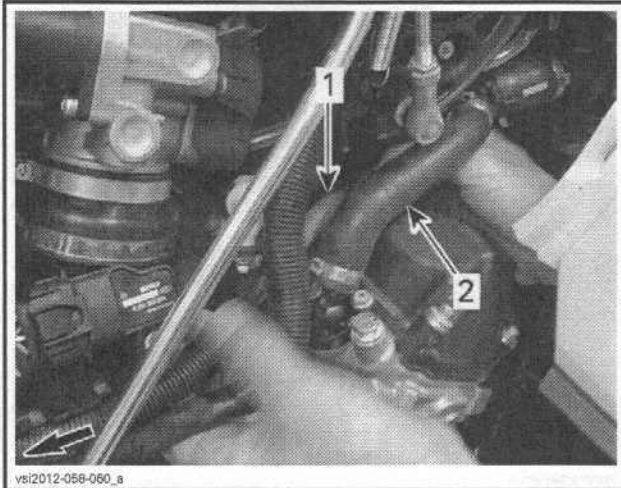
Wiring Battery Power to Solenoid

1. Route positive battery cable [P15] from solenoid toward battery.
2. Enter one terminal right over solenoid, follow coolant hoses and wiring harness.



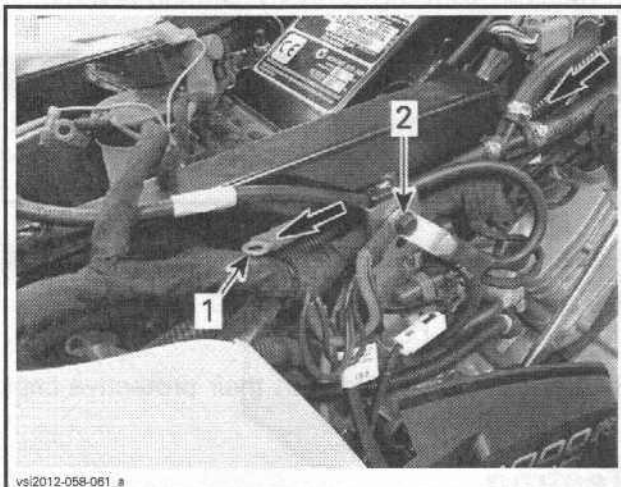
vsi2012-058-059_a
 1. Positive battery cable [P15]

3. Exit positive battery cable [P15] right over front cylinder head and behind coolant hose as shown.



1. Positive battery cable [P15]
2. Coolant hose

4. Keep routing battery cable toward battery by passing behind battery ground to chassis connection as shown.



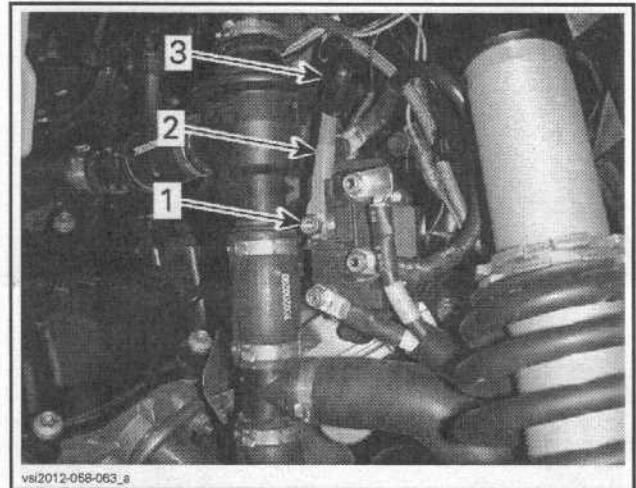
1. Positive battery cable [P15]
2. Battery ground to chassis connection

5. Finally, insert battery cable through battery tray positive cable opening.



BATTERY REMOVED FOR CLARITY
1. Battery tray
2. Battery tray positive cable opening

6. Connect positive battery cable [P15] to solenoid as shown.



1. Solenoid [P12] battery post
2. Positive battery cable [P15]
3. Connector protective cap

7. Torque nut.

TORQUE	
Battery connection nut at solenoid	4.5 N•m ± 0.5 N•m (40 lbf•in ± 4 lbf•in)

8. Secure positive battery cable [P15] to electrical harness or frame with locking ties.

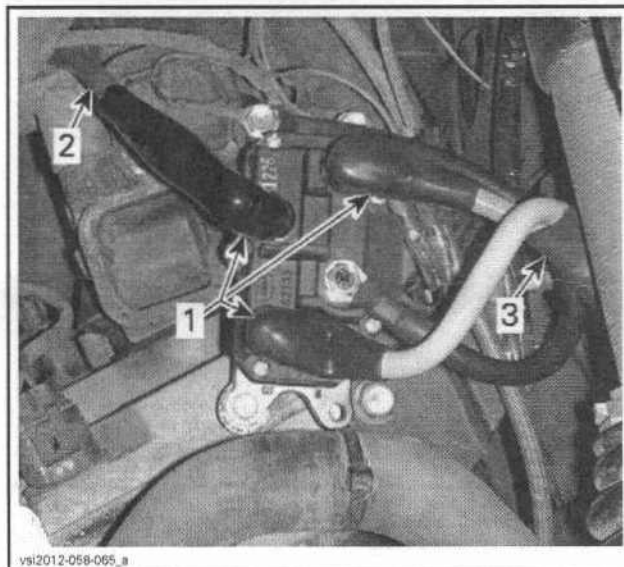
NOTICE Make sure that all wires/cables are not in contact with any moving parts or sharp edges.

9. Connect positive battery cable [P15] over vehicle positive cable to positive battery post.

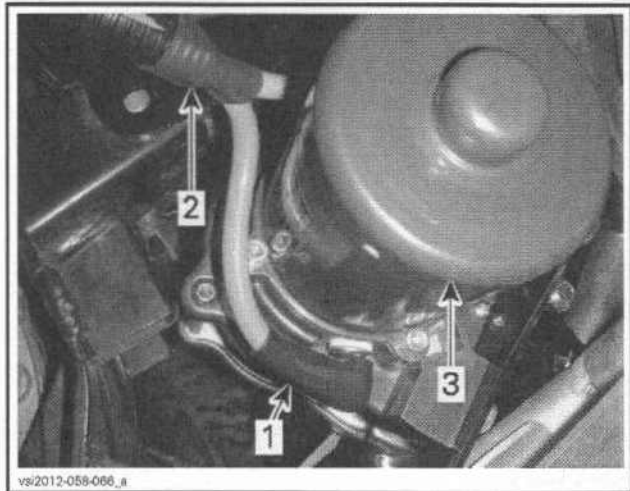


- 1. Winch positive battery cable [P15] terminal
- 2. Vehicle positive battery cable
- 3. Ground cable

10. Cover wire terminals with connector protective caps.



- 1. Positive battery cable [P15]
- 2. Connector protective caps
- 3. Winch electric cable [P10]



- 1. Connector protective caps
- 2. Winch electric cable [P10]
- 3. Winch motor

Finalize Installation

- 1. Reinstall all removed body parts in reverse order of removal.

⚠ WARNING
Ensure all terminals are properly installed and connectors housings are properly fastened.

- 2. Reconnect battery.

NOTICE Always connect RED (+) cable first then BLACK (-) cable.

- 3. Cover battery posts with their protective caps (if equipped).

Testing

⚠ WARNING
Read winch operator manual and all warning labels prior to operating ATV and winch.

Make sure that winch works properly.