ATV KIT - Can-Am HD 2500 and HD 3500 - Vehicles 2017 and up

Product:	**ATV**
Project no:	**487803268_rev2**
Instruction Sheet P/N:	**487803268**
Revision no:	**2**
Revision date:	**May, 2024**
Item covered:	**Can-Am HD 2500 and HD 3500 - Vehicles 2017 and up**

The hardware kit (P/N 715003477) is required to install (P/N 715002167) or (P/N 715002057) on Outlander 450/570 MY2017 and up models.

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.
- If the installation of the kit requires a template, ensure that template is to scale.
- 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.

WARNING

Some important safety information and/or operating instructions dedicated to the end user might be included in this instruction sheet. Make sure to give the kit part number as well as the instruction sheet included with this kit to the customer. Verify that the customer has access to all the information required for proper use of the accessory.

Refer to Winch User's Guide for more details regarding safety and usage.
operatorsguides.brp.com

NOTE: USE TIGHTENING TORQUES IN THE FOLLOWING TABLE IF NOT OTHERWISE SPECIFIED.

	GRADE			
	5.8	8.8	10.9	12.9
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 ± 0.5 N•m (44 ± 4 lbf•**in**)	7.8 ± 0.7 N•m (69 ± 6 lbf•**in**)	9 ± 1 N•m (80 ± 9 lbf•**in**)
M6	7.5 ± 1 N•m (66 ± 9 lbf•**in**)	10 ± 2 N•m (89 ± 18 lbf•**in**)	12.8 ± 2.2 N•m (113 ± 19 lbf•**in**)	16 ± 2 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 ± 5 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.

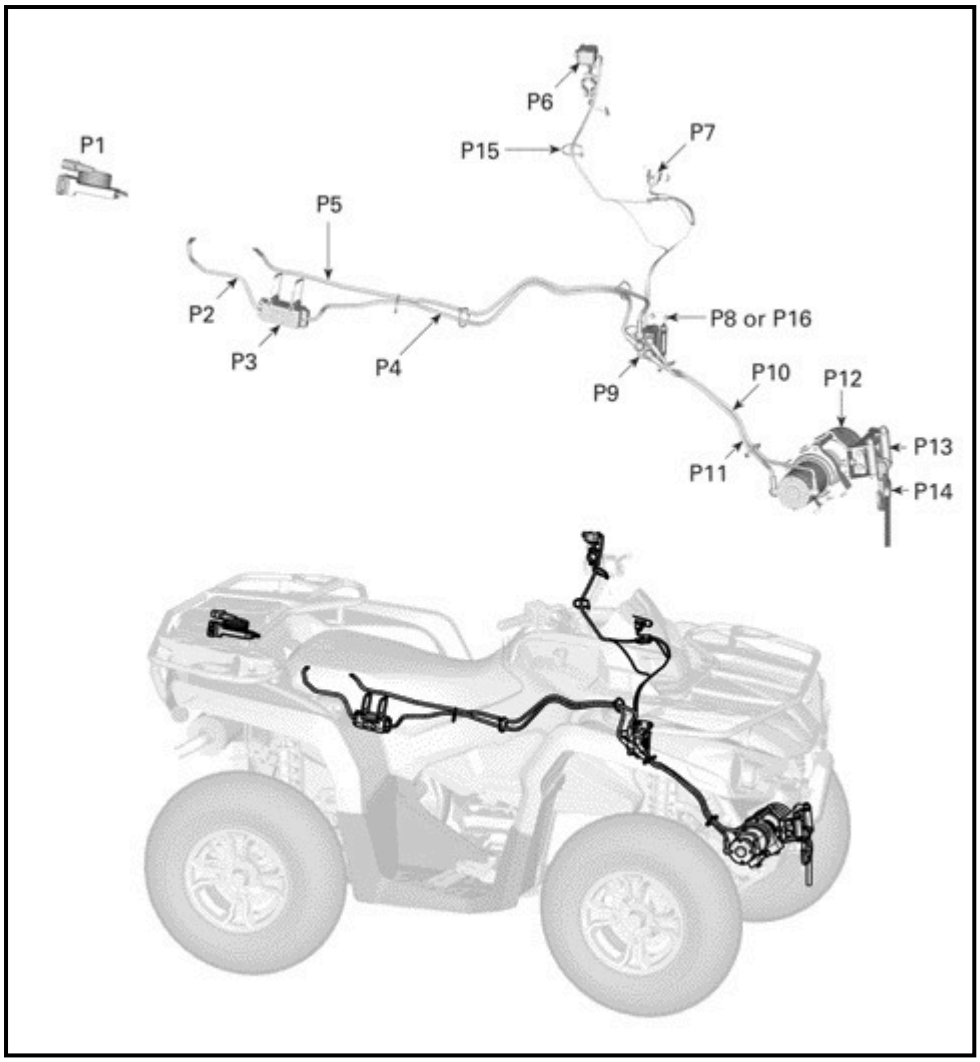
PARTS TO BE INSTALLED

Outlander 450/570 MY2017 and up

The hardware kit (P/N 715003477) is required to install (P/N 715002167) or (P/N 715002057).

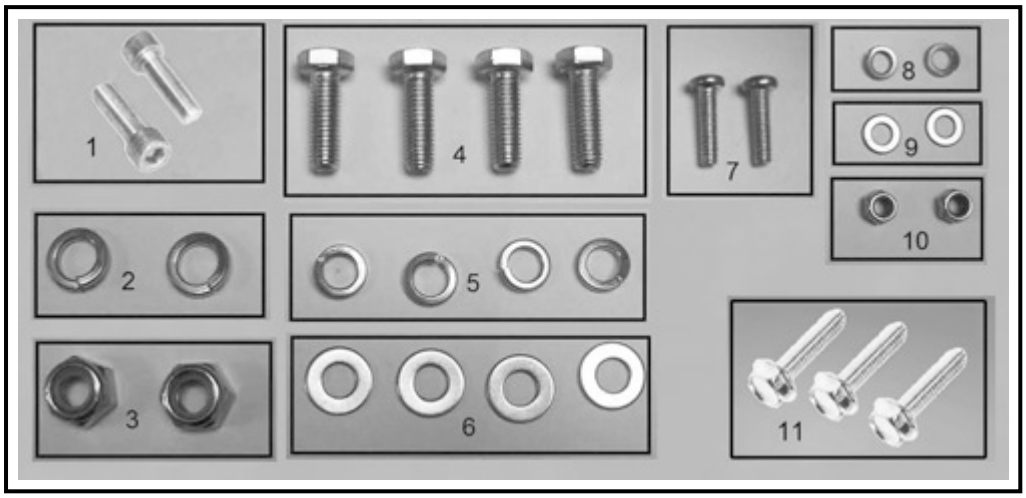
ITEM	DESCRIPTION	PART NUMBER	QTY
P1	Hand Held Remote	715006555 (Sold separately)	1
P2	Short Positive Battery Cable	Not available separately	1
P3	Circuit Breaker	710007077	1
P4	Long Positive Battery Cable	Not available separately	1

ITEM	DESCRIPTION	PART NUMBER	QTY
P5	Negative Battery Cable	Not available separately	1
P6	Winch Control Switch Assembly	710007062	1
P7	Socket Assembly	(Sold separately) Available in remote control kit	1
P8	Solenoid Bracket	Not available separately	1
P9	Solenoid	710007073	1
P10	BLUE Cable	Not available separately	1
P11	YELLOW Cable	Not available separately	1
P12	Winch	Not available separately	1
P13	Winch Cable Guide	710007459	1
P14	Hook Assembly	705014949	1
P15	Locking Tie	Not available separately	12
P16	Solenoid Support	Not available separately	1
P17	M6 x 16 Flanged Hexagonal Screw	207561634	1
P18	M10 Elastic Stop Nut	233201436	1
P20	Winch User’s Guide (not shown)	Refer to operatorsguides.brp.com	1

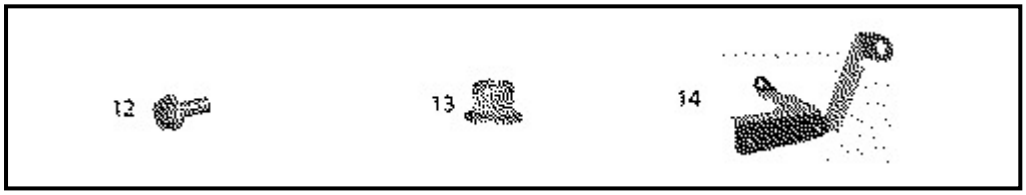


ITEM	DESCRIPTION	TYPE	QTY
1	Winch Cable Guide Hardware	M10 x 25 Socket Head Screw	2
2		M10 Lock Washer	2
3		M10 Elastic Stop Nut	2
4	Winch Assembly Hardware	M8 x 25 Bolt	4
5		M8 Lock Washer	4
6		M8 Flat Washer	4
7	Solenoid Assembly Hardware	M5 x 19 Machine Screw	2
8		M5 Lock Washer	2
9		M5 Flat Washer	2
10		M5 Elastic Stop Nut	2
11		M6 x 12 Thread Forming Screw	3
12		M6 x 16 Flanged Hexagonal Screw	1

ITEM	DESCRIPTION	TYPE	QTY
13		M10 Elastic Stop Nut	1
14	Solenoid Support	Solenoid Support	1



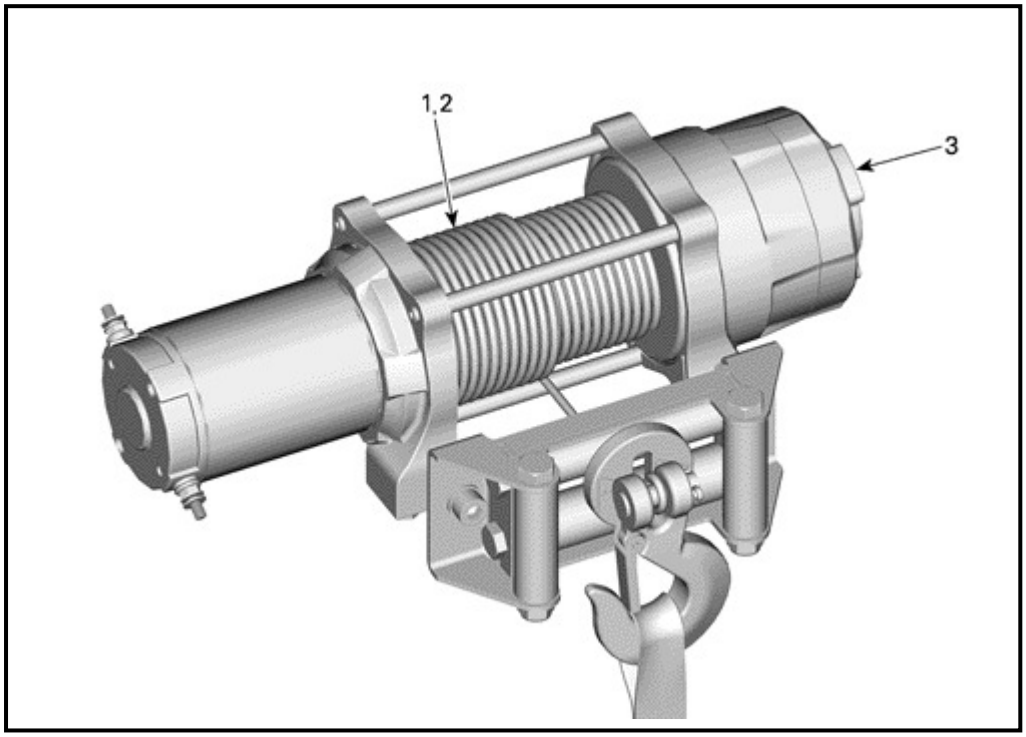
TYPICAL



SERVICE PARTS

ITEM		DESCRIPTION	PART NUMBER	QTY
1		Hardware Kit	715003477	1
	A	Module Support	710004935	1
	B	M10 Elastic Stop Nut	233201416	1
	C	M6 x 16 Flanged hexagonal screw	207561644	1
	D	M6 Serrated washer	234461608	1
	E	M6 Flanged elastic nut	233261414	3
	F	Locking tie	414115200	1
	G	Locking tie	293750008	2
	H	Solenoid support	710005151	1
	I	Winch control switch support	710004670	1
2		Galvanized steel Cable 3500	705014984	1

ITEM		DESCRIPTION	PART NUMBER	QTY
3		Galvanized steel Cable 2500	705014983	1
4		Clutch Cap	715006440	1
5		Remote Control and Socket Connexion	715006555 (Not included in winch kit)	1



INSTRUCTIONS

Please refer to appropriate *SHOP MANUAL* if needed.

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.**

Components Pre-Assembly

1. Perform pre-assembly of the positive cables [P2] / [P4] and circuit breaker [P3] to be referred as *POSITIVE CABLE ASSEMBLY*.

2. Using electrical tape, attach the *POSITIVE CABLE ASSEMBLY* with negative battery cable [P5] every foot starting after the circuit breaker. To be referred as *POWER CABLE ASSEMBLY*.

3. Perform pre-assembly of the solenoid bracket [P8] and solenoid [P9] using the appropriate hardware [7] to [10] to be referred as *SOLENOID ASSEMBLY*.

Tightening torque	
M5 x 19 Machine screw	5 ± 0.5 N•m (44 ± 4 lbf•**in**)

Installation Preparation

Front Skid Plate (If present on vehicle)

1. Remove lower front skid plate retaining screws.

RH Inner Fender Removal

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



TYPICAL 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.

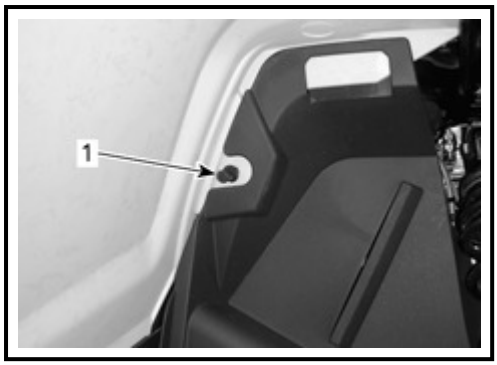


LIFT REAR PORTION

3. Pull console rearwards to remove console.

RH and LH Side Panel Removal

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



1. Plastic rivet securing side panel

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



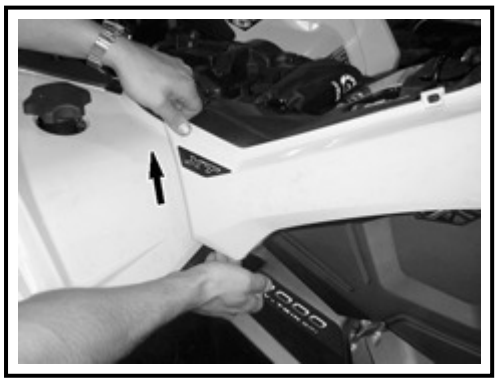
1. Plastic rivet securing side panel

3. Remove and keep 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.



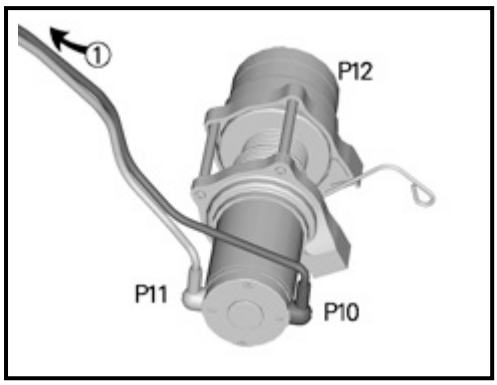
LIFT REAR PORTION

Please note that the RH side panel is removed to allow access for routing and LH side panel is removed to allow the installation of the hand held remote control assembly with provided template.

Parts Installation

Winch

1. Install the electric cables [P10] and [P11] on winch by connecting wires as follow :
   - BLUE wire on stud with BLUE dot
   - YELLOW wire on stud with YELLOW dot.

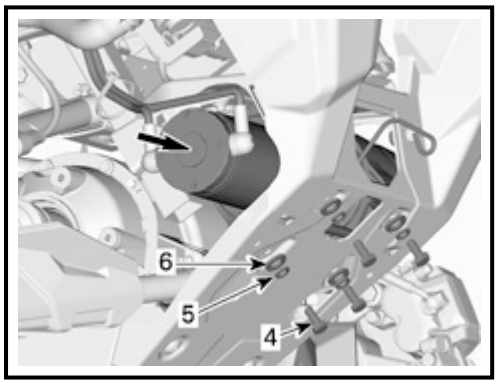


1. Will be connecting to solenoid [P9] later on.

2. Apply dielectric grease (P/N 293 500 004) on connections.
3. Disengage winch [P12] clutch and pull on cable to get approximately 30 cm (12 in).
4. Insert winch from the right side of vehicle with YELLOW clutch control button entering first.

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

5. Secure winch inside front skid plate with appropriate hardware [4] / [5] and [6].



TYPICAL RIGHT FRONT VIEW

NOTE: Depending on model, you may need to pull on plastic skid plate in order to see the holes.

6. Tighten screws.

Tightening torque	
M8 x 25 Bolt	16 ± 2 N•m (142 ± 18 lbf•**in**)

7. Insert winch cable through front skid plate existing hole.
8. Remove one of the horizontal rollers to allow cable to pass.
9. Route cable through guide rollers.
10. Reinstall roller.

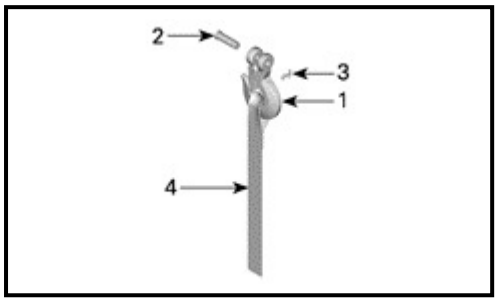
Tightening torque	
Roller hardware	4 ± 0.5 N•m (35 ± 4 lbf•**in**)

11. Install winch cable guide [P13].

12. Secure winch cable guide with appropriate hardware [1] / [2] and [3] on vehicle.
13. Tighten nuts.

Tightening torque	
M10 elastic stop nuts	16 ± 2 N•m (142 ± 18 lbf•**in**)

14. Install hook assembly [P14] in cable loop and secure to cable with its hardware.



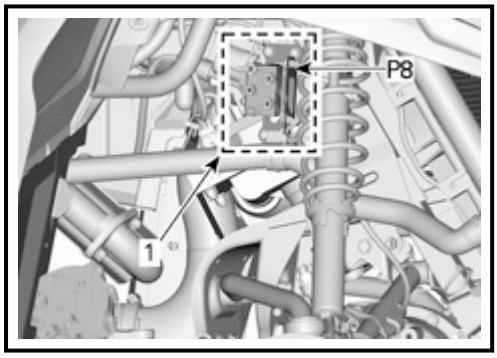
1. Hook
2. Clevis Pin
3. Cotter Pin
4. Hook Strap

⚠CAUTION: Always use hook strap to manipulate wire cable.

Winch Solenoid

For Outlander (with plastic rack) with DPS and for Outlander (with metal rack) 2016 and older

1. Install *SOLENOID ASSEMBLY* on vehicle using appropriate hardware [11].



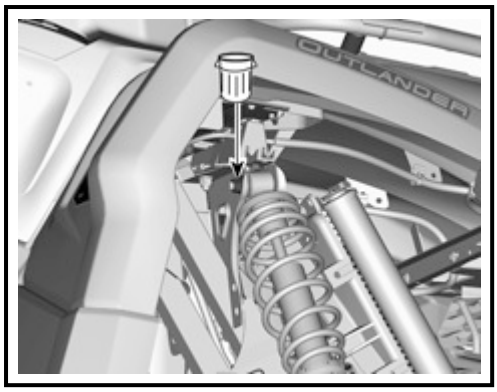
RIGHT FRONT VIEW
1. Solenoid mounting bracket location

2. Tighten screws.

Tightening torque	
M6 X 12 Hexagonal flange self-tapping screws	7 ± 1 N•m (62 ± 9 lbf•**in**)

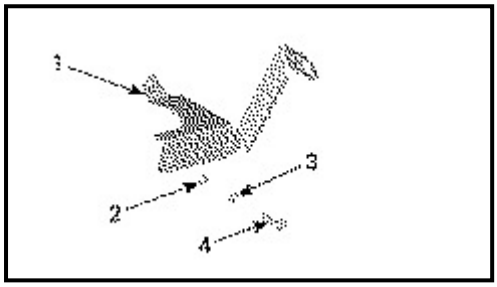
Outlander 450/570 MY2017 & up and Outlander without DPS

Remove and discard the upper shock retaining nut.



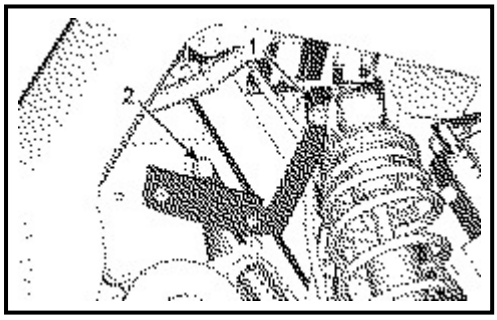
Install left M5 x 19 machine screw [Item 7] with M5 lock washer [Item 8] and M5 flat washer [Item 9] on solenoid support [P16].

NOTE: Do not tighten M5 x 19 machine screw [Item 7].



1. Solenoid Support
2. M5 Flat Washer
3. M5 Lock Washer
4. M5 x 19 Machine Screw

Install the solenoid support [P16] using the M10 flanged elastic nut [P18] and the M6 x 16 flanged hexagonal screw [P17].



RIGHT FRONT VIEW
1. M10 Flanged Elastic Nut
2. M6 x 16 Flanged Hexagonal Screw

Tightening torque	
M10 Flanged elastic nut	61 ± 9 N•m (45 ± 7 lbf•ft)
M6 X 16 Flanged elastic nut	10 ± 2 N•m (89 ± 18 lbf•**in**)

All Models

Wiring Winch to Solenoid

1. Route pre-installed electric cable [P10] and [P11] from winch to solenoid.

NOTE: For Outlander MY2017 & up only, pass both cables behind solenoid support [P16] and fix them at their proper post location on the solenoid prior to installing solenoid on the support. Do not

install the solenoid yet.

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.**

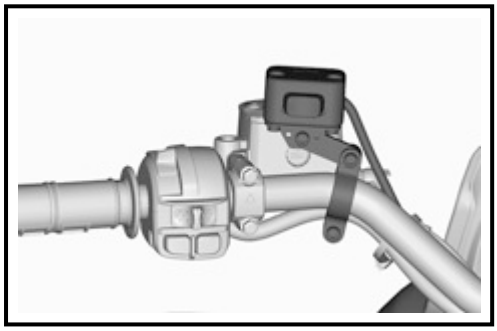
3. Install the BLUE wire on the BLUE stud of solenoid and the YELLOW wire on the YELLOW stud.
4. Tighten wiring connection nuts at solenoid and winch.

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

5. Apply DIELECTRIC GREASE (P/N 293 550 004) on connections.
6. Slide connector protective caps over terminals.

Winch Control Switch

1. Install winch control switch assembly [P6] on the right side of handlebar using its hardware.

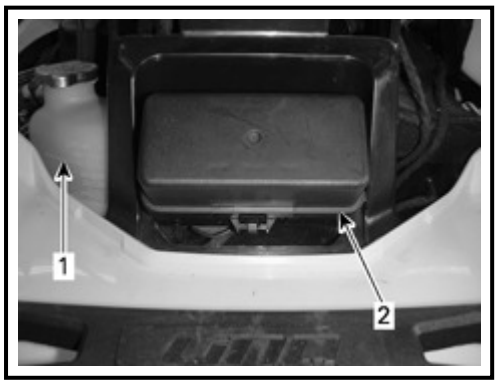


Tightening torque	
Winch control switch assembly screws	8.5 ± 1.5 N•m (75 ± 13 lbf•**in**)

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

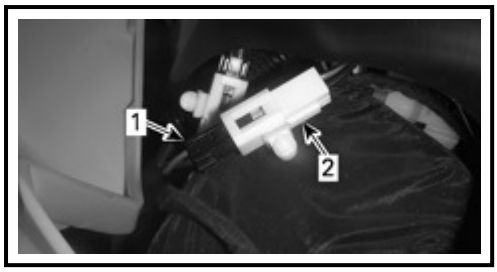
NOTICE **Make sure that all wires/cables are not in contact with any moving parts or sharp edges.**

3. Remove service cover and unclip fuse box to pull it out.



TYPICAL
1. Coolant expansion tank
2. Fuse box

4. Route winch control switch connector to 2-pin connector as shown.

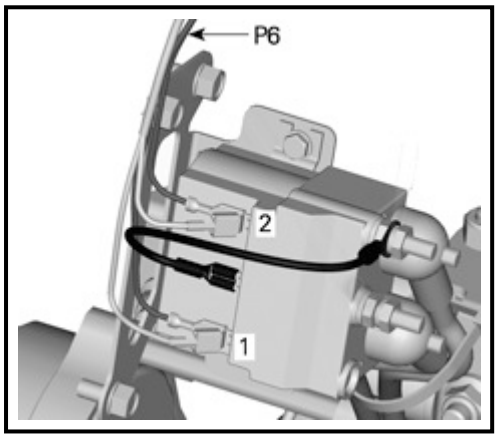


BEHIND FUSE BOX VIEW
1. 2-pin connector
2. Winch control switch connector

Connecting Control Switch to Solenoid

1. Route the double end female wire towards the winch solenoid. The other connector will be used with the socket assembly [P7].

2. Plug winch control switch wires [P6] to the male solenoid connectors.

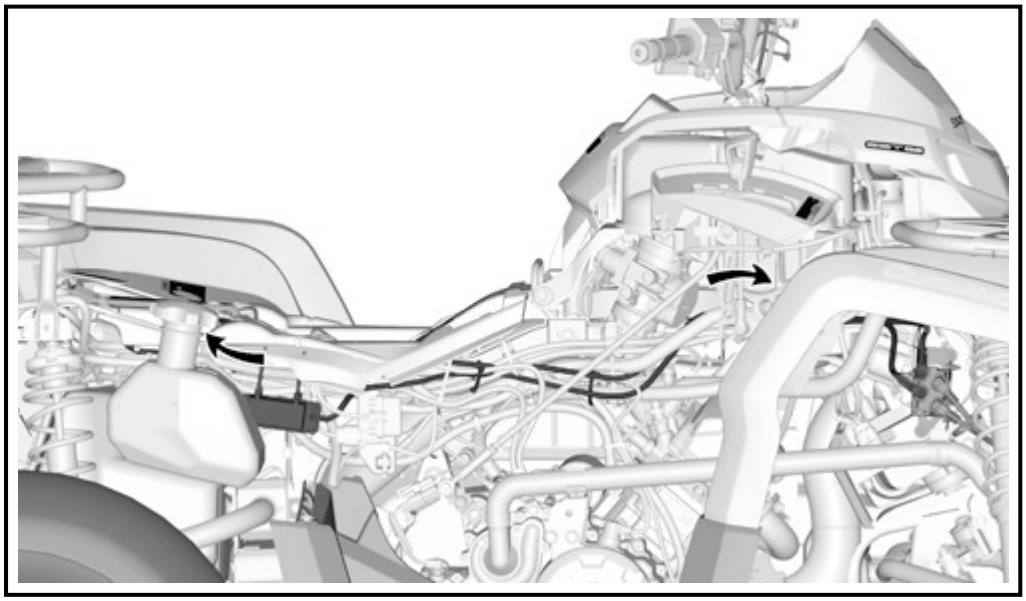


TYPICAL - [P6] WINCH CONTROL SWITCH WIRES TO MALE TERMINALS ON SOLENOID
1. [P6] BLACK wire here
2. [P6] GREEN wire here

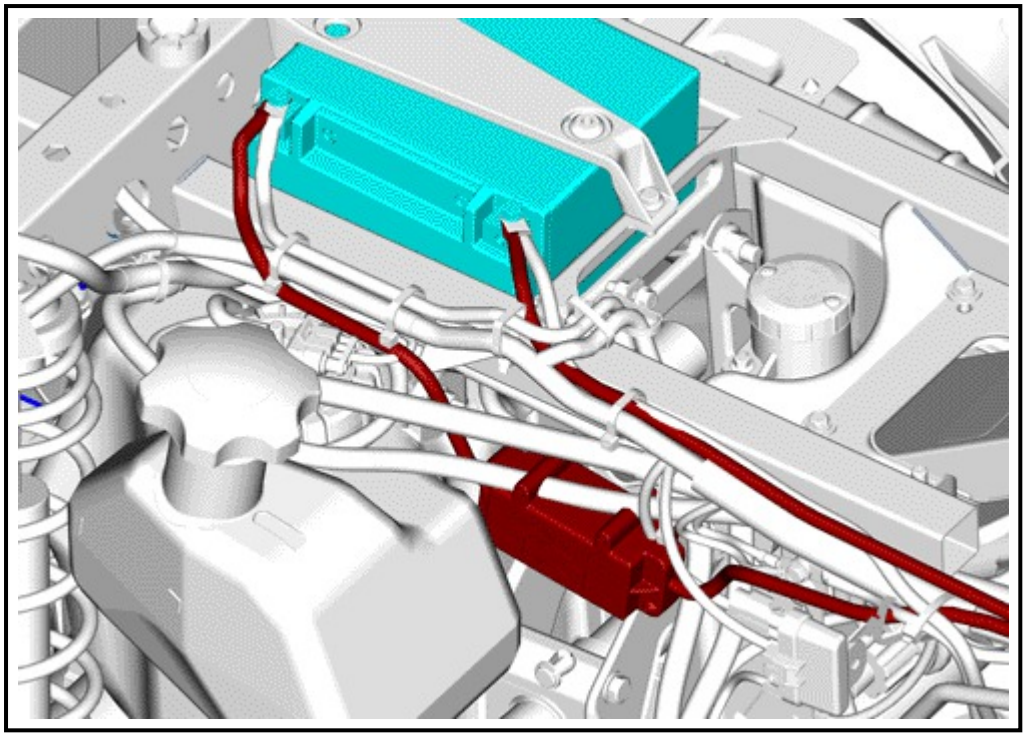
3. Apply DIELECTRIC GREASE (P/N 293 550 004) on connections.

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

Wiring Battery Power to Solenoid



SOME PARTS REMOVED FOR CLARITY



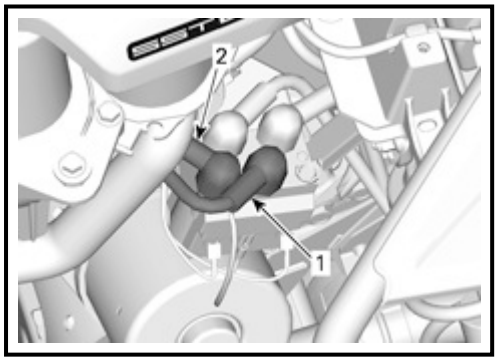
SOME PARTS REMOVED FOR CLARITY

1. Route *POWER CABLE ASSEMBLY* from solenoid towards battery.

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

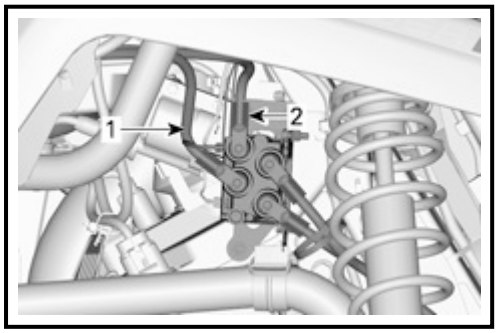
2. Use provided locking ties [P15] to secure wires along the way.
3. Connect positive and negative battery cables to solenoid as shown.

Outlander 450/570 2017 & up



1. Positive
2. Negative

All other models



1. Positive

2. Negative

All models

4. Tighten nut.

Tightening torque	
Battery cable connection nut at solenoid	4.5 ± 0.5 N•m (40 ± 4 lbf•**in**)

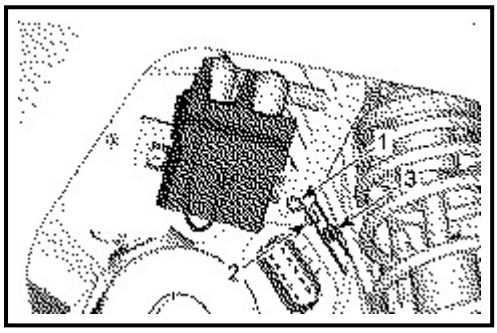
5. Apply DIELECTRIC GREASE (P/N 293 550 004) on connections.

6. Slide connector protective caps over terminals.

Outlander 450/570 2017 and up models

Install solenoid [P9] on solenoid support [P16] with M5 x 19 machine screw [Item 7] with M5 lock washer [Item 8] and M5 flat washer [Item 9].

NOTE: Tighten M5 x 19 machine screw [Item 7].



RIGHT FRONT VIEW
1. M5 Flat Washer
2. M5 Lock Washer
3. M5 x 19 Machine Screw

Tightening torque	
M5 x 19 Machine Screw	5 ± .5 N•m (44 ± 4 lbf•**in**)

All Models

7. Secure cables to electrical harness or frame with provided locking ties [P15].

8. Connect positive battery cable over vehicle positive cable to positive battery post.

9. Connect negative battery cable over vehicle negative cable to negative battery post.

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

10. Cover all wire terminals with their connector protective cap.

11. Reinstall all removed parts.

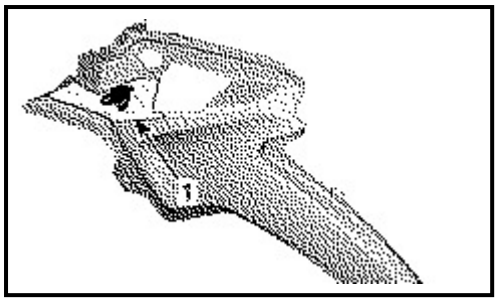
WARNING

Read winch guide and all warning labels prior to operating ATV and winch.

12. Using hand held remote [P1] and winch control switch, make sure that winch works properly.

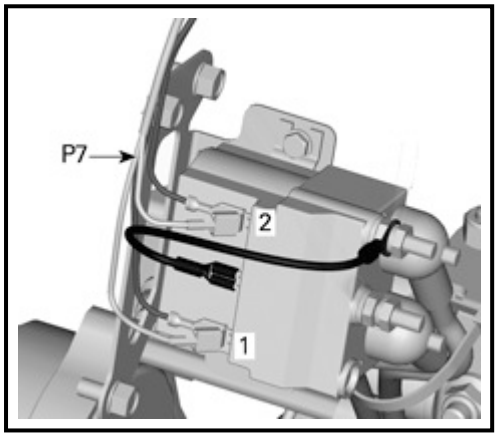
Connecting Socket Assembly to Switch and to Solenoid (Sold separately)

1. Using the provided template, drill a 26 mm (1 in) hole and 2 holes of 5 mm (3/16 in) in previously removed LH side panel.



1. Template

2. Install the socket assembly [P7] using its hardware. Hand torque only.
3. Find accessory 2 pin connector from previously installed winch control switch [P6] and plug it with the socket assembly [P7] connector.
4. Route the double end female wire towards the winch solenoid.
5. Reinstall fuse box.
6. Plug socket assembly wires [P7] to the male connectors on solenoid.



TYPICAL - [P7] SOCKET ASSEMBLY WIRES TO MALE TERMINALS ON SOLENOID
1. [P7] BLACK wire here
2. [P7] GREEN wire here

7. Apply DIELECTRIC GREASE (P/N 293 550 004) on connections.
8. 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.**

SAFETY LABELS

This product comes with the following labels containing important safety information.

The labels should be considered a permanent part of this product. If the labels come off or become hard to read, please contact an authorized dealer for FREE OF CHARGE replacement.
Any person who intend to use this product should read and understand the information contained on the labels before doing so.



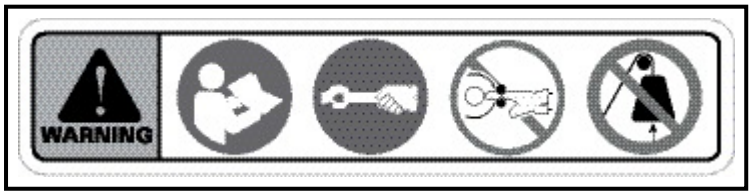
HD 2500 MODEL



HD 3500 MODEL

WARNING

- Locate and read the operator's guide. Improper use can result in SEVERE INJURY or DEATH. Follow all instructions and warnings.
- Never put your fingers into the hook.
- Always use the hand strap to manipulate the hook and rope.
- Avoid putting your hand between hook and hawse or roller fairlead. You can crush your fingers.
- Never use the winch to lift objects or people.



WARNING

- Do not remove the hand strap from the hook.
- Always use the hand strap to manipulate the hook and rope.

