WINCH KIT

P/N 2883828

APPLICATION

Verify accessory fitment at www.polaris.com.

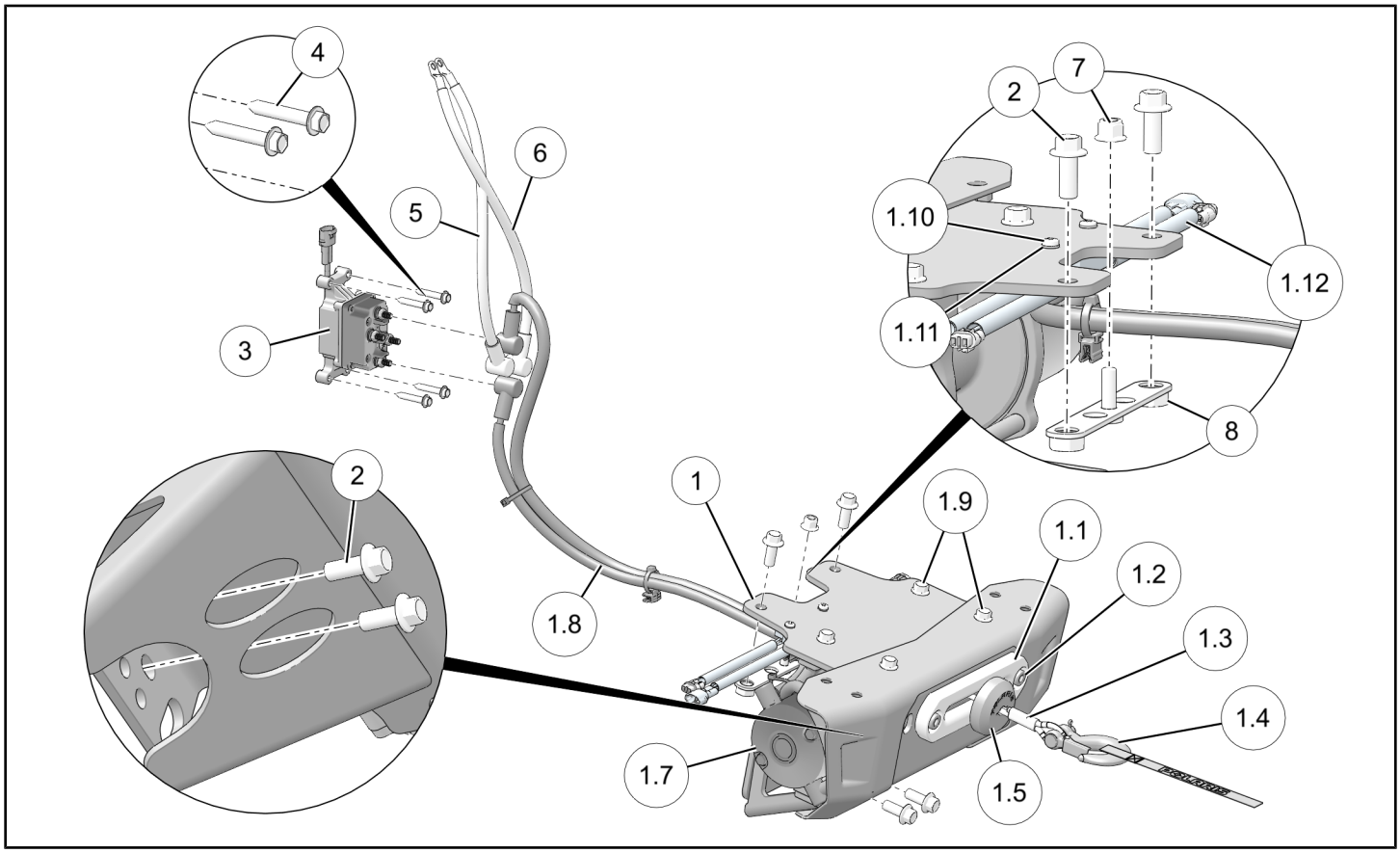
BEFORE YOU BEGIN

Read these instructions and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

KIT CONTENTS

NOTICE
Winch Kit, P/N 2883828 also contains *Wireless Winch Remote Kit*, P/N 2879316

WINCH KIT, P/N 2883828

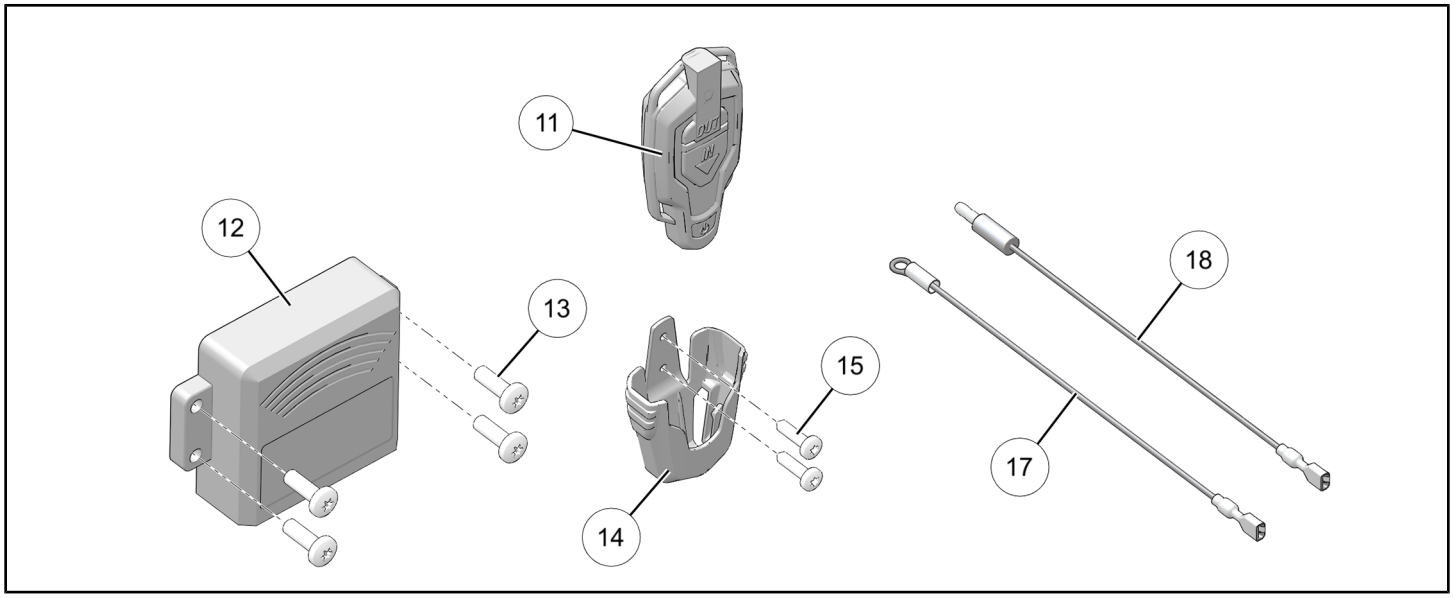


REF	QTY	PART DESCRIPTION	P/N AVAILABLE SEPARATELY	AVAILABLE SERVICE KIT
1	–	Winch Assembly (includes items 1.1–1.12)	—	n/a
1.1	1	- Fairlead	2883958	n/a
1.2	2	- Screw, Socket Cap - M10 X 1.5 X 25	7517358 / 2883958	2207617
1.3	1	- Rope, UHMW	2879187	n/a
1.4	1	- Hook	2411836	n/a

REF	QTY	PART DESCRIPTION	P/N AVAILABLE SEPARATELY	AVAILABLE SERVICE KIT
1.5	1	- Stop, Magnetic	2883958	n/a
1.6	1	- Plate, Fairlead Backer (not shown)	5260831	n/a
*1.7	1	- Winch, Motor Assembly, 4500 lb	2207742	n/a
1.8	1	- Cables, Winch-to-Contactor	4017690	n/a
1.9	4	- Screw, Hex Flange - M8 X 1.25 X 20	7519133	2207617
1.10	2	- Screw, Torx® Pan Head, High/Low - #10 X 3/4	7512026	2207617
1.11	2	- Washer - M5	7556724	2207617
1.12	1	- Controller, Autostop	2414731 / 2883958	n/a
2	4	Screw, Hex Flange - M10 X 1.5 X 25	7518908	2207617
3	1	Contactor	4015095	n/a
4	4	Screw, Hex Flange, High/Low - M6 X 35	7519330	2207617
5	1	Cable, Contactor-to-Terminal Block, Red	4013471–370	n/a
6	1	Cable, Contactor-to-Terminal Block, Black	4013470–375	n/a
7	1	Nut, Hex Flange, Locking - M8 X 1.25	7547332	2207617
8	1	Plate, Winch Backer	5265335–458	n/a
9	10	Cable Tie, 11 inch (not shown)	7080492	2207617
10	—	(unused)	—	n/a
	1	Winch User Guide	9923644	n/a

* Replacement Rapid Rope Recovery gear selector knob P/N 2207842.

WIRELESS WINCH REMOTE KIT, P/N 2879316



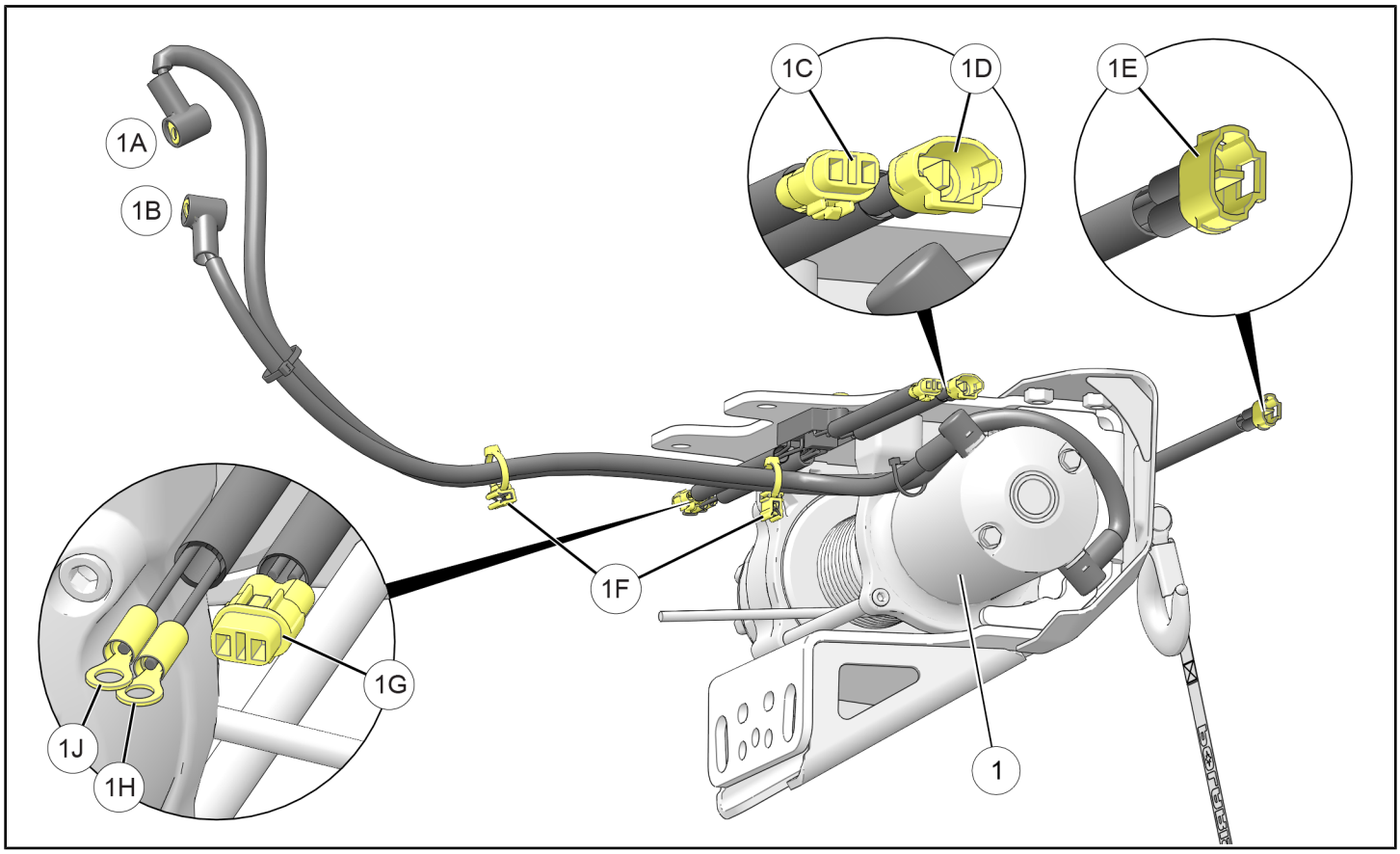
REF	QTY	PART DESCRIPTION	P/N AVAILABLE SEPARATELY
11	1	Remote, Wireless	n/a
12	1	Receiver, Wireless (wire harnesses not shown)	n/a
13*	4	Screw, Torx® Pan Head, High/Low - #14 X 0.75	7519731
14	1	Holder, Wireless Remote	5454269
15	2	Screw, Torx® Pan Head, High/Low - #10 X 0.75	7512026
16	1	Harness, Y-Splitter (not shown)	4017126
17	1	Wire, Adapter, Spade Terminal to Ring Terminal	n/a
18*	1	Wire, Adapter, Spade Terminal to Bullet Terminal	n/a

* Not used for installation of *Winch Kit*, P/N 2883828

HARNESS DETAIL

WINCH KIT, P/N 2883828

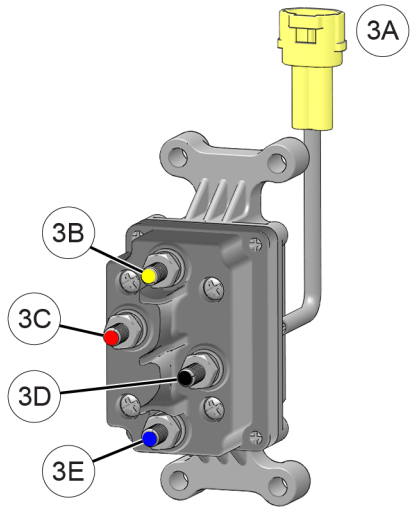
WINCH ①



REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
1A	Ring Terminal, Contactor, with Boot - 1/4 inch (6 mm)	Yellow	-	Contactor ③, post 3B
1B	Ring Terminal, Contactor, with Boot - 1/4 inch (6 mm)	Blue	-	Contactor ③, post 3E

REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
1C	Connector, Autostop Controller	-	2 female	Contactor ③, connector 3A
1D	Connector, Autostop Controller	-	2 male	Y-splitter ⑯, connector 16A
1E	Connector, Autostop Fairlead	-	2 male	PRE-CONNECTED to 1G
1F	Clip, Edge	-	-	Vehicle structure
1G	Connector, Autostop Controller	-	2 female	PRE-CONNECTED to 1E
1H	Terminal, Ring	Black	-	Terminal block negative (–); post may be identified as “GND”
1J	Terminal, Ring	Orange	-	Terminal block key power; post may be identified as “ACC”

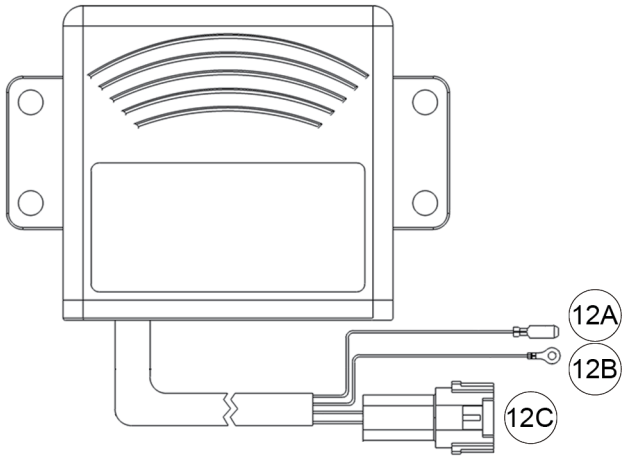
CONTACTOR ③



REF	PART DESCRIPTION	POST COLOR	PIN QTY/ GENDER	CONNECTS TO
3A	Connector, Wired Remote Socket	-	2 male	Winch ①, connector 1C
3B	Post, Winch	Yellow	-	Winch ①, ring terminal 1A
3C	Post, Terminal Block, Battery Positive (+)	Red	-	Cable ⑤
3D	Post, Terminal Block, Battery Negative (–) / Ground	Black	-	Cable ⑥
3E	Post, Winch	Blue	-	Winch ①, ring terminal 1B

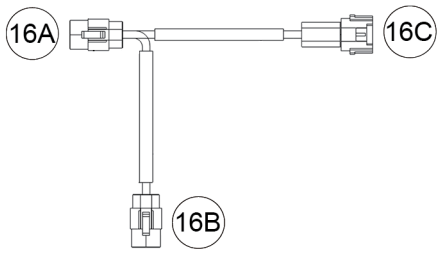
WIRELESS WINCH REMOTE KIT, P/N 2879316

WIRELESS RECEIVER ⑫



REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
12A	Terminal, Spade	Orange	1 male	Adapter wire ⑰, connector 17A
12B	Terminal, Ring	Black	—	Terminal block negative (–); post may be identified as “GND”
12C	Connector	—	2 male	Y-splitter harness ⑯, connector 16B

Y-SPLITTER HARNESS ⑯



REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
16A	Connector	n/a	2 female	Winch ①, connector 1D
16B	Connector	n/a	2 female	Wireless receiver ⑫, connector 12C
16C	Connector	n/a	2 male	Nothing (connector not used in this application)

ADAPTER WIRE ⑰

REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
17A	Terminal, Spade	Orange	1 female	Wireless receiver ⑫, connector 12A
17B	Terminal, Ring	Orange	—	Terminal block key power; post may be identified as “ACC”

TOOLS REQUIRED

- Safety Glasses
- Drill
- Drill Bit:
  - **1/8 in (3 mm)**
- Screwdriver Set, Torx®
- Socket Set, Torx® Bit
- Socket Set, Metric
- Torque Wrench
- Wrench Set, Metric

IMPORTANT

Your Winch Kit is exclusively designed for your vehicle. Please read the installation instructions thoroughly before beginning. Installation is easier if the vehicle is clean and free of debris. For your safety, and to ensure a satisfactory installation, perform all installation steps correctly in the sequence shown.

INSTALLATION INSTRUCTIONS

Carefully read *Gear Selection* section *Winch Guide* to familiarize yourself with proper operation of Rapid Rope Recovery function.

VEHICLE PREPARATION

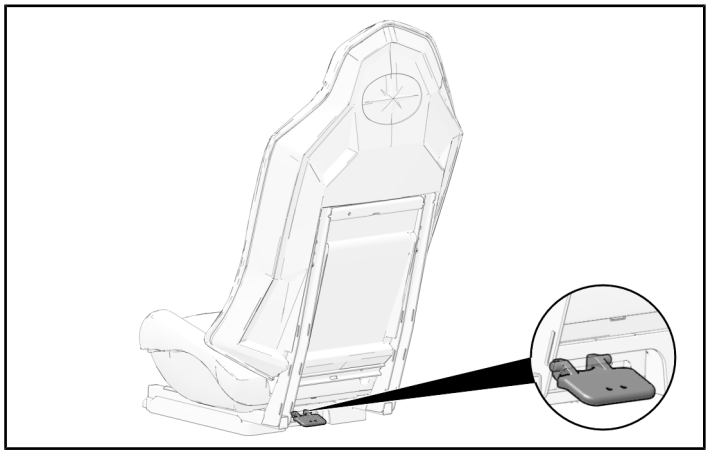
GENERAL

1. Shift vehicle transmission into PARK. Turn ignition switch to OFF position and remove key.
2. Remove driver’s (or left rear passenger) seat and disconnect black negative (-) cable from battery.

DRIVER'S SEAT REMOVAL

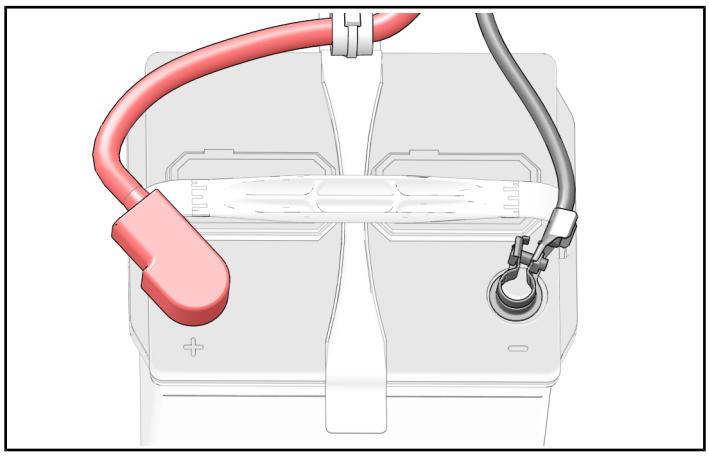
SEAT REMOVAL

1. Lift latch lever upwards to disengage and remove seat.



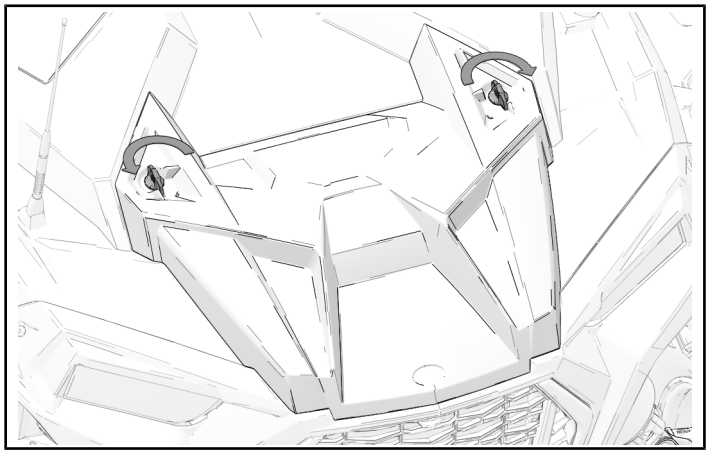
BATTERY DISCONNECT

1. Loosen NEGATIVE (–) terminal fastener and remove negative battery cable from battery.



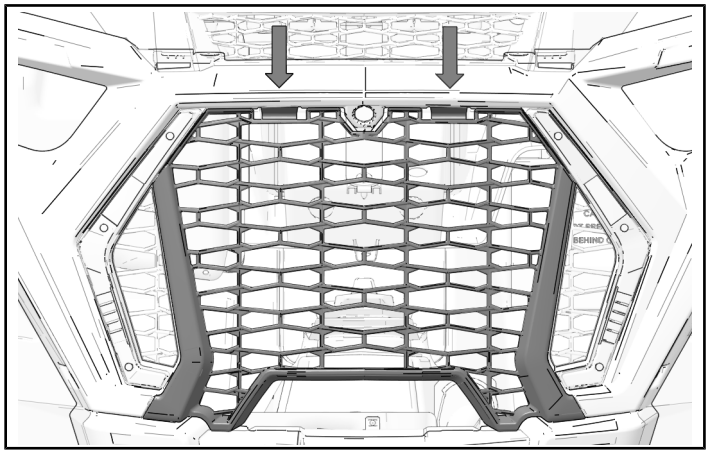
HOOD REMOVAL

1. Turn two 1/4-turn knobs to disengage hood from front fascia.



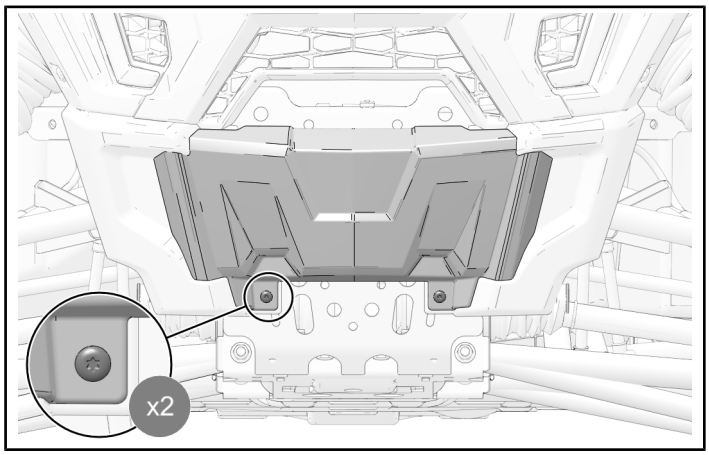
GRILLE REMOVAL

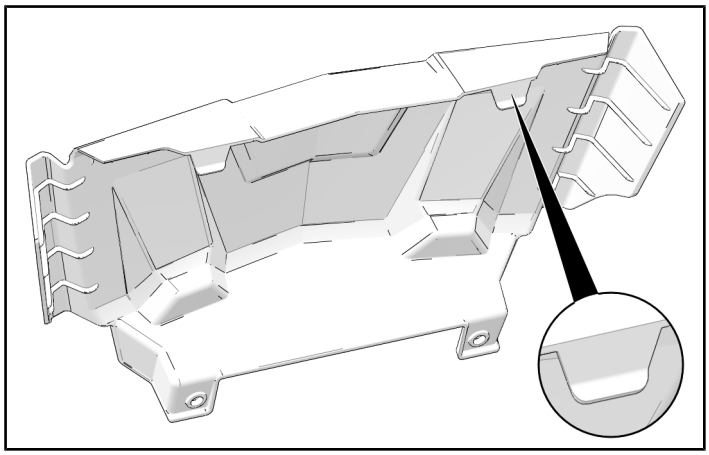
1. Carefully push down on two tabs to disengage grille from front fascia. Tilt top outward to remove from vehicle.



WINCH COVER REMOVAL

1. Remove two winch cover fasteners. Tilt and lift front fascia to detach to upper tabs.

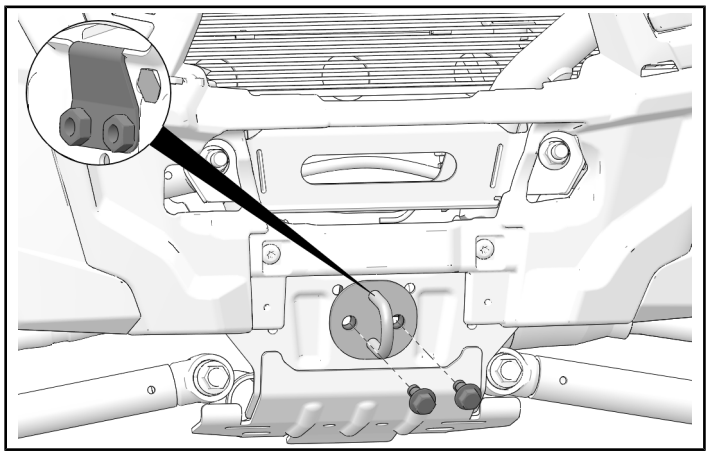




ACCESSORY INSTALLATION

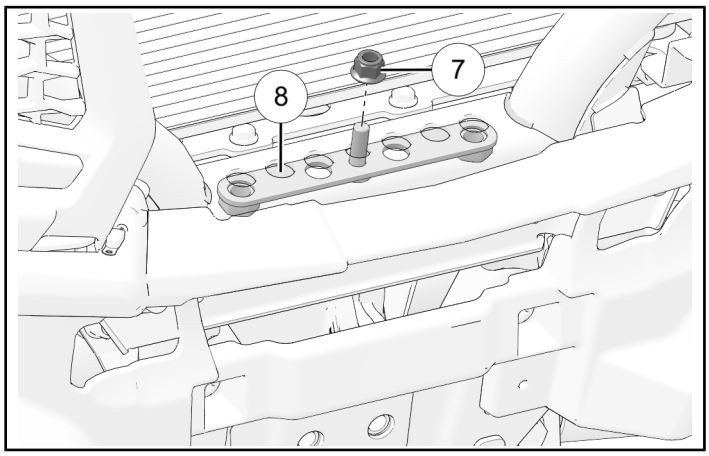
WINCH INSTALLATION

1. Reaching through left front wheel well, apply tape to secure tow hook backer plate (hanging from chassis structure), then remove tow hook by removing two tow hook fasteners. Hook and fasteners will not be reused.

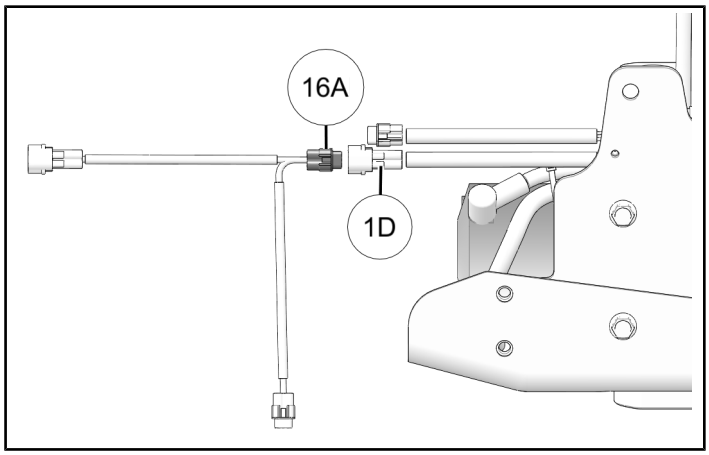


2. Install winch backer plate ⑧ to underside of support channel using nut ⑦. Align holes in plate and channel, then hand-tighten nut.

NOTICE
Support channel shown transparent for clarity.

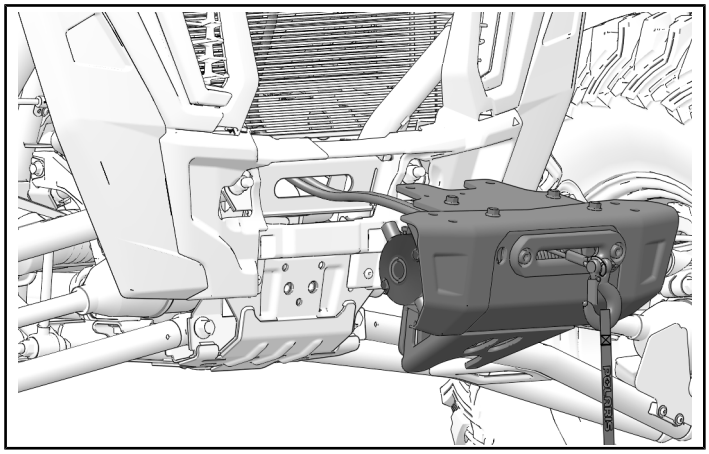


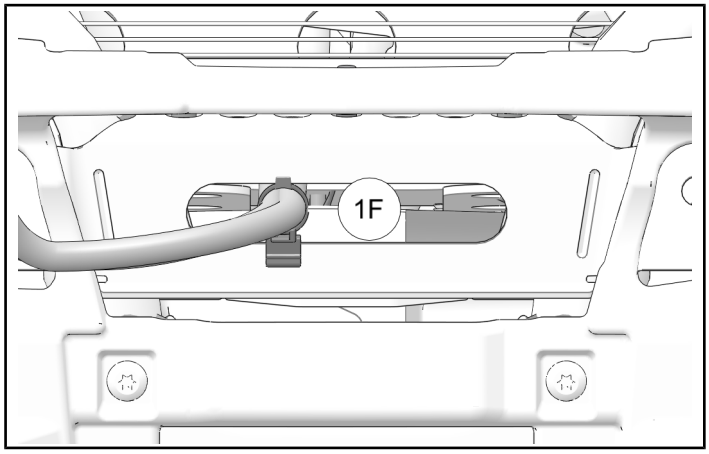
3. Join Y-splitter connector 16A to winch connector 1D.



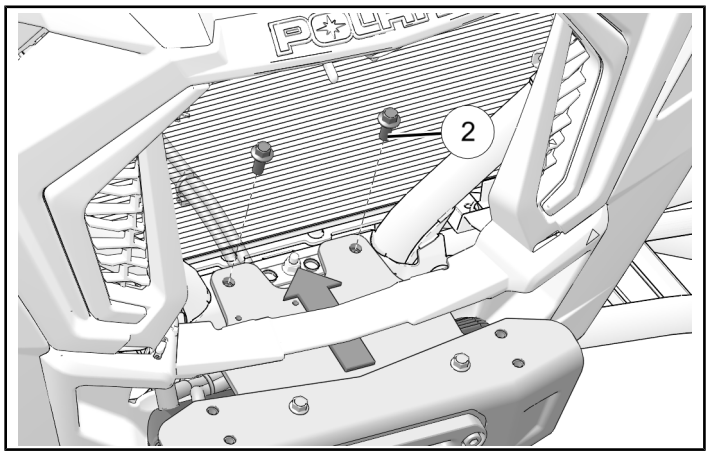
4. Lift winch assembly into position at front of vehicle, route all winch cables through opening in support channel, then secure cables to channel using edge clip 1F.

NOTICE
See *Harness Detail* section, for connector identification.

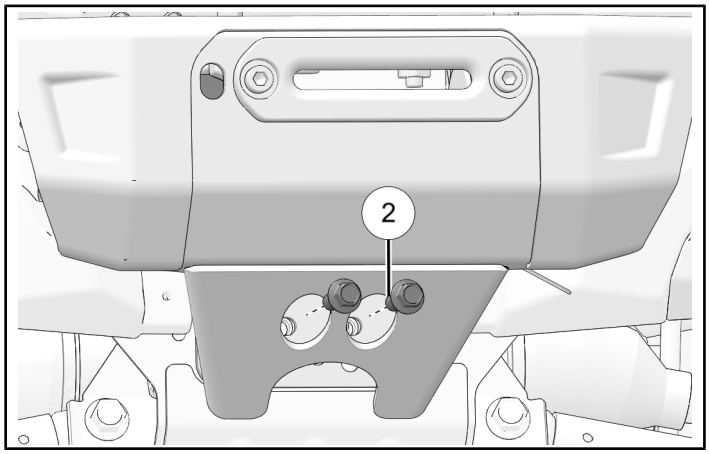




5. Loosely install upper end of winch assembly to vehicle using two winch fasteners ②.



6. Install lower end of winch assembly to vehicle using two winch fasteners ②.



7. Torque four fasteners ② to specification.

TORQUE
Winch Fasteners②: **40 ft-lbs (54 N·m)**

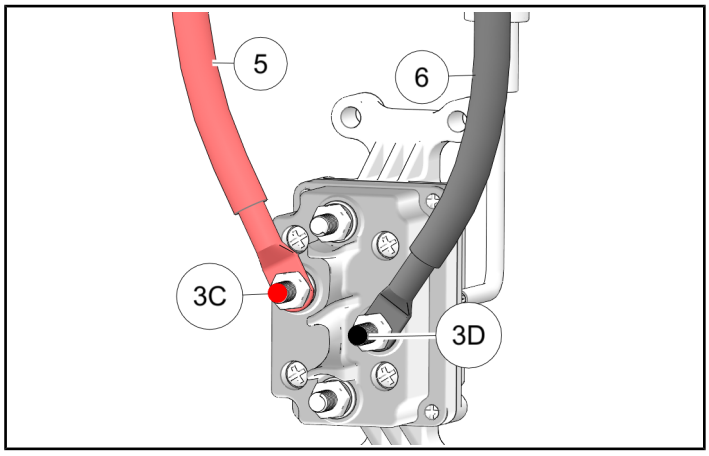
CONTACTOR INSTALLATION

NOTICE
See *Harness Detail* section, for connector identification.

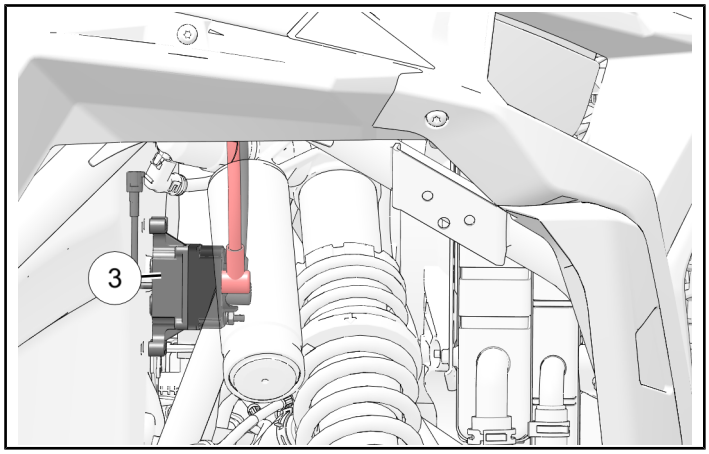
1. Connect cables ⑤ and ⑥ to posts on contactor ③. Ensure cables are oriented upwards, as shown. Tighten nuts and place cable boots over connection.

CABLE / COLOR	POST / COLOR
⑤ / **RED**	3C / **RED**
⑥ / **BLACK**	3D / **BLACK**

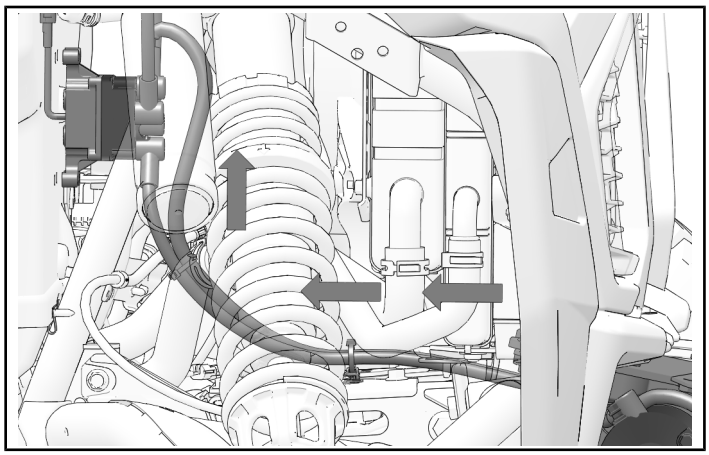
NOTICE
Do not remove existing wire and ring terminal (not shown) from **BLACK** post 3D.



2. Position contactor ③ near firewall in approximate location shown. Do not install contactor to firewall at this time.

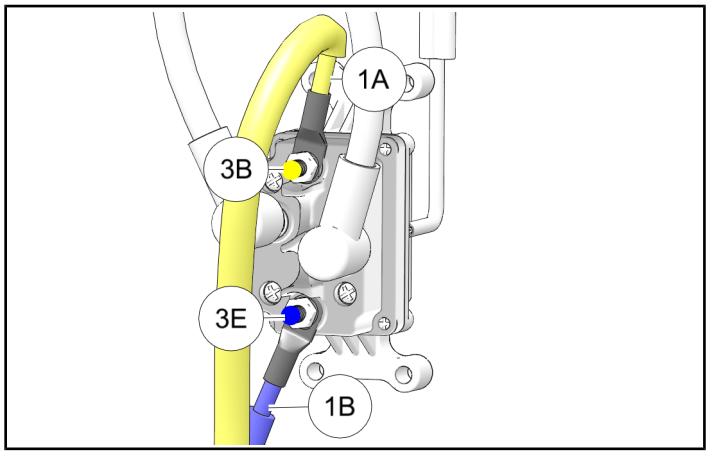


3. Route winch cables behind suspension and towards contactor.

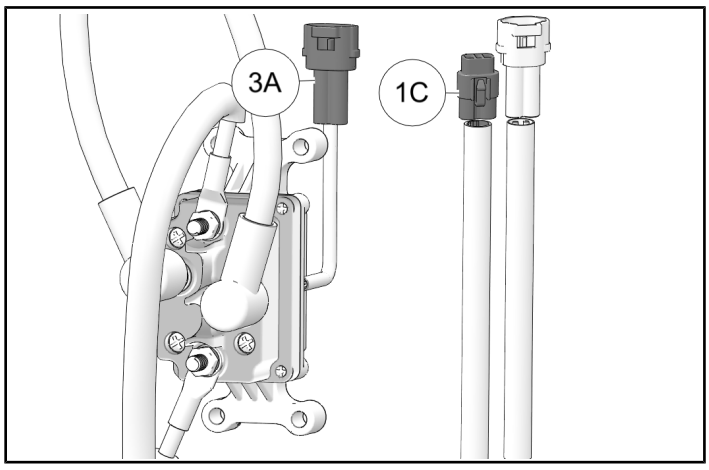


4. Connect winch ring terminals 1A and 1B to posts on contactor ③. Ensure final cable routing (with contactor installed to firewall) will prevent contact with hot components, sharp edges, or moving parts.

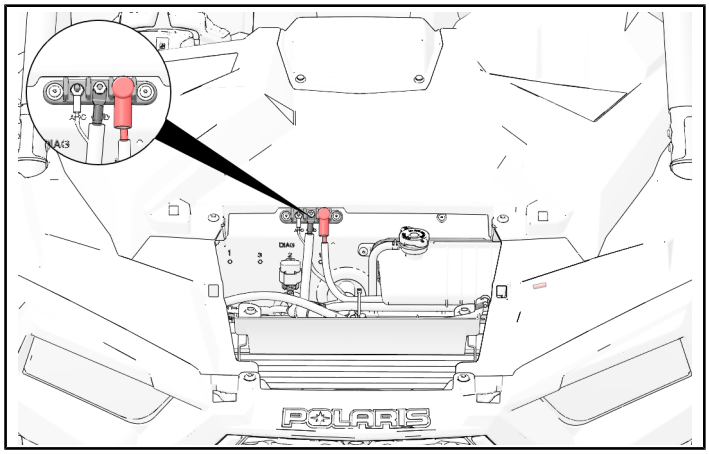
CABLE / COLOR	POST / COLOR
1A / **YELLOW**	3B / **YELLOW**
1B / **BLUE**	3E / **BLUE**



5. Join connector 3A on contactor ③ to connector 1C on winch ①.



6. Identify terminal block, located on firewall.

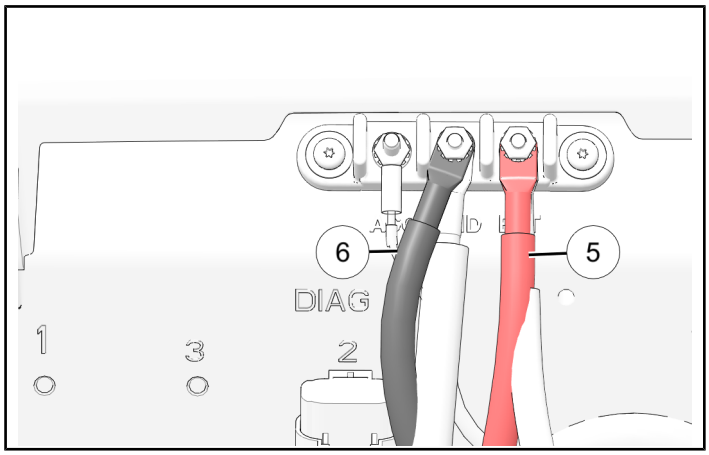


7. Route loose ends of cables ⑤ and ⑥ upward, then connect ring terminals to terminal block. Install terminal block post nuts finger tight only. Additional connections will be made in next step.

   Ensure final cable routing (with contactor installed to firewall) will prevent contact with hot components, sharp edges, or moving parts.

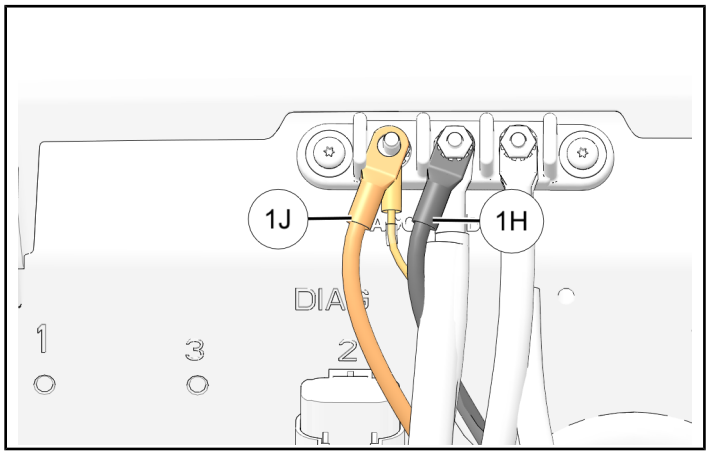
CABLE / COLOR	POST / COLOR
⑤ / **RED**	**BAT** / **RED** battery connection cable; unswitched 12V POS
⑥ / **BLACK**	**GND** / **BLACK** battery connection cable; 12V NEG

NOTICE
If two cable boots exist for same terminal, then slide inner boot (closest to terminal block) down cable. Unused boot can remain on cable.

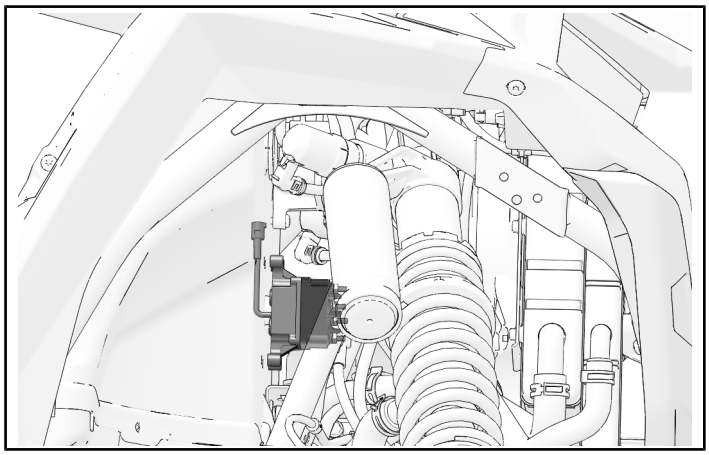


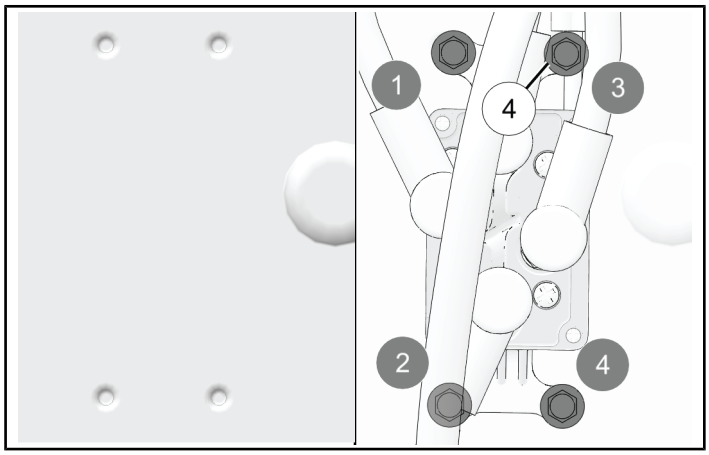
8. Route two ring terminals 1H and 1J rearward and upward, then connect to terminal block. Install terminal block post nuts finger tight only. Additional connections will be made later.

CABLE / COLOR	POST / COLOR
IJ / **ORANGE**	**ACC** / with existing orange wire; key power 12V POS
1H/ **BLACK**	**GND** / **BLACK** battery connection cable; 12V NEG



9. Install contactor ③ to pre-formed screw holes in firewall using four fasteners ④. Do not overtighten screws. Follow torque sequence.



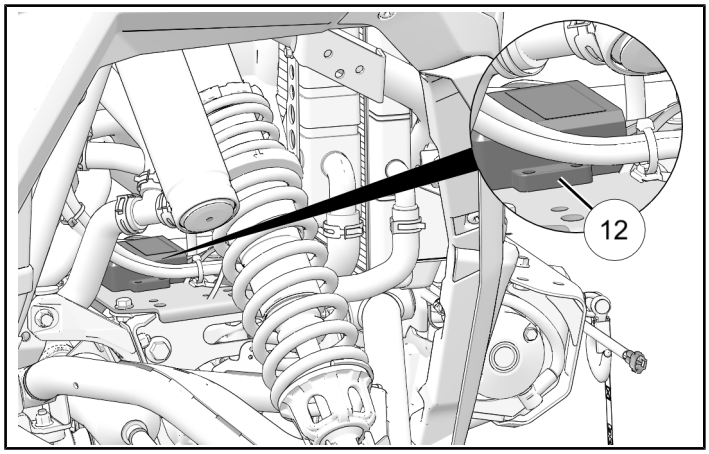


WIRELESS WINCH REMOTE KIT, P/N 2879316

NOTICE
See *Harness Detail* section, for connector identification.

WIRELESS RECEIVER INSTALLATION

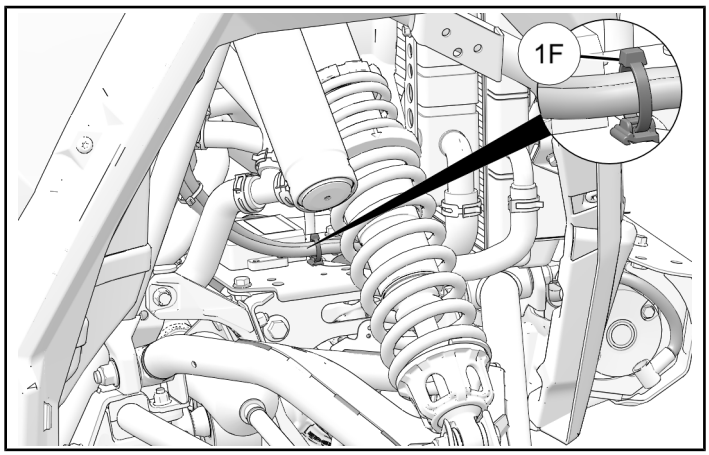
1. Install wireless receiver ⑫ atop front drive mounting plate. Use cables ties ⑨ to secure wireless receiver to plate.



2. Join connector 16B on Y-splitter harness ⑯ to connector 12C on wireless receiver ⑫.

NOTICE
Connector 16C is not used in this application.

3. Secure winch-to-contactor cables to front of front drive mounting plate using edge clip 1F. Secure cables at addition locations using cable ties ⑨ (locations as required to prevent cable contact with hot components, sharp edges, or moving parts).



4. Join spade terminal 12A on wireless receiver ⑫ to spade terminal 17A on adapter wire ⑰.
5. Route two ring terminals 12B and 17B upwards, then connect to terminal block.

CABLE / COLOR	POST / COLOR
17B / **ORANGE**	**ACC** / with existing orange wire; key power 12V POS
12B/ **BLACK**	**GND** / **BLACK** battery connection cable; 12V NEG

6. Torque all three terminal block post nuts (ACCY, GND, and BAT) to specification, then install cable boot(s).

TORQUE
Terminal Block Fasteners: **24 in-lbs (3 N·m)**

OPTIONAL: WIRELESS REMOTE INSTALLATION

Wireless remote ① can be stowed in any suitable location. Holder ④ is not required.

1. Remove wireless remote ① from holder ④. Determine suitable mounting location for holder with special attention to the following:
   - Driver operation of vehicle (including travel of controls, such as shift lever)
   - Driver visibility
   - Adequate clearance between holder mounting fasteners and other vehicle components on underside of mounting surface
2. Using holder ④ as template, mark and drill two 1/8 in (3 mm) holes into mounting surface.

IMPORTANT
Control drill depth to prevent damage to underlying structure or components.

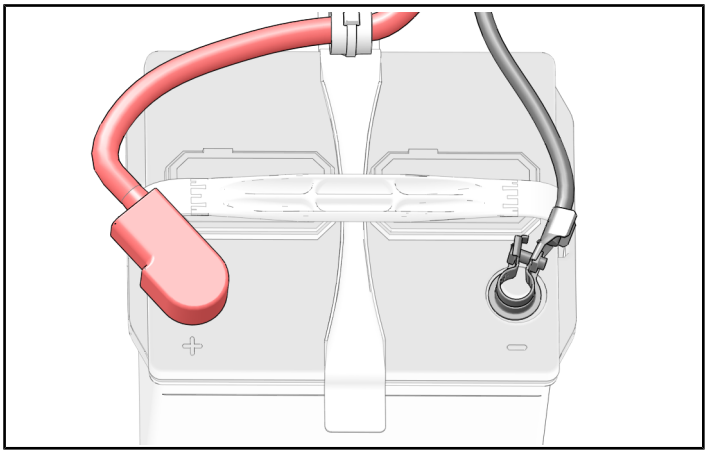
3. Install holder ④ using two screws ⑤. Do not over-tighten screws.
4. Reinstall wireless remote into holder.

VEHICLE REASSEMBLY

BATTERY CONNECT

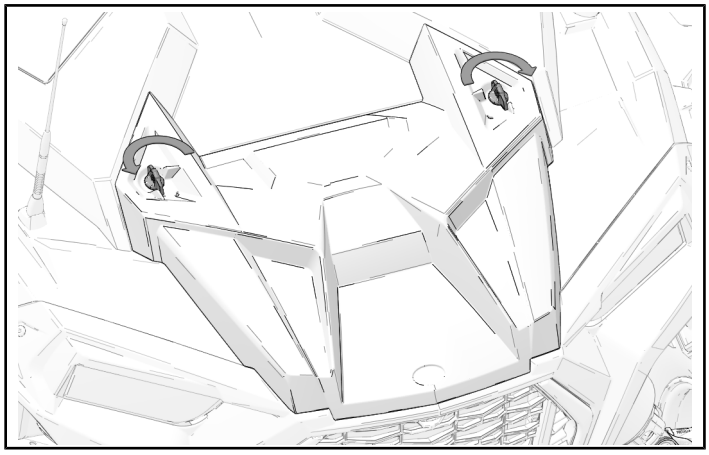
1. Connect NEGATIVE (–) battery cable to negative battery terminal.

TORQUE
Battery Terminal Fasteners: **60 in-lbs (7 Nm)**



HOOD INSTALLATION

1. Turn two 1/4-turn knobs to securely engage hood to front fascia.



GENERAL

1. Reinstall driver's seat.
2. Read *Winch Guide* thoroughly before connecting winch remote to winch socket and operating winch.

OPERATION

OPERATION CHECK

WIRELESS REMOTE OPERATION CHECK

Wireless remote allows winch operation from outside vehicle. If winch does not operate as described, refer to *Troubleshooting* section.

IMPORTANT
Autostop system is intended to prevent winch damage caused by over-tightening rope, but cannot prevent all possible winch damage. Winch system is very powerful and care should be exercised whenever it is in operation. Winch operator is always responsible for using winch properly. Autostop system should only be used as secondary preventive measure to help prevent damage to winch from over-tightening rope.

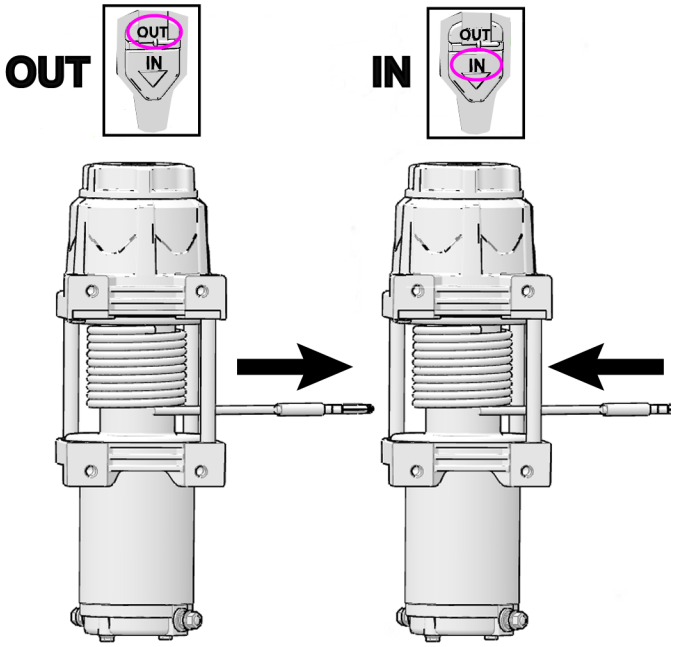
1. To turn wireless remote ON, depress and hold power button for three seconds or until LED light illuminates.

   Wireless remote will automatically turn OFF after 30 seconds of inactivity. To manually turn off, depress and hold power button for three seconds or until LED light extinguishes.

2. To extend rope, depress and hold OUT button. To recover rope, depress and hold IN button.

IMPORTANT

During rope retraction winch should automatically stop when magnetic stop comes close to or contacts autostop fairlead (within approximately 1 inch (25 mm)). Magnets in stop trigger sensors in fairlead, stopping winch.



TETHERED REMOTE OPERATION CHECK

IMPORTANT

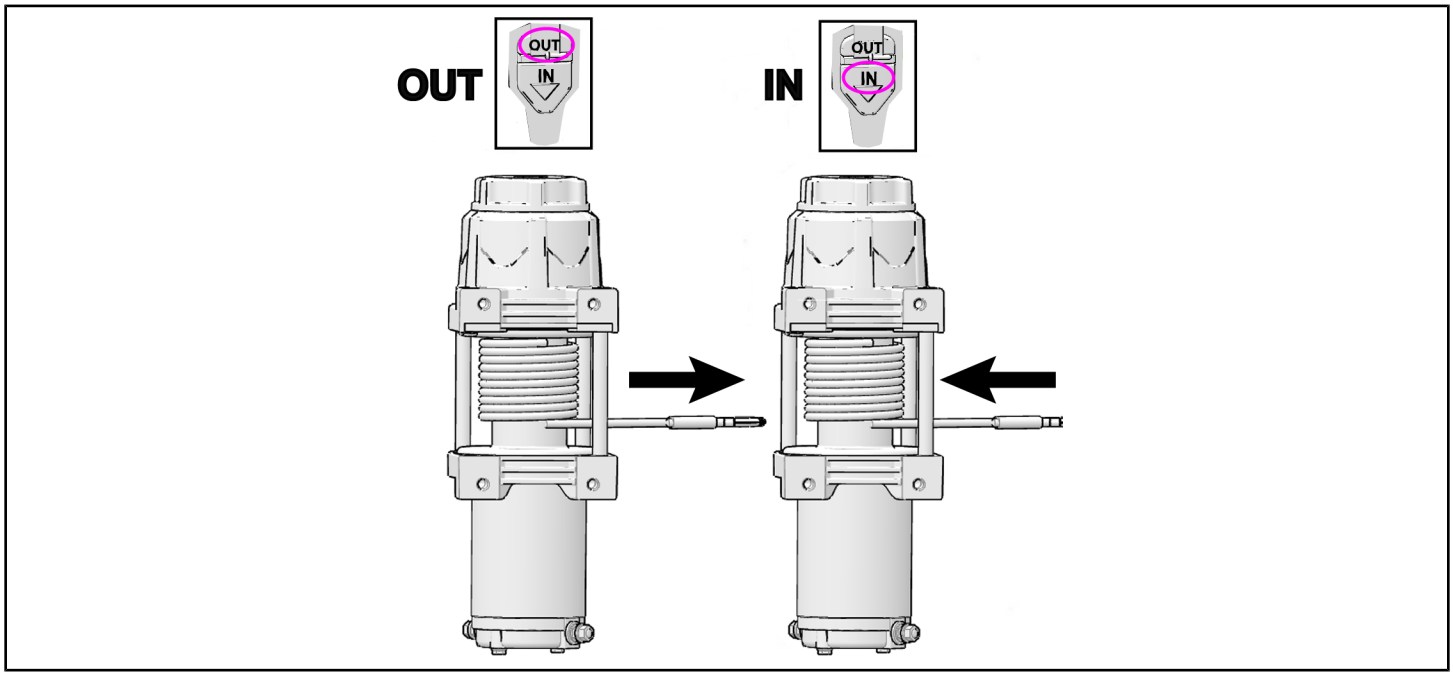
Autostop system is intended to prevent winch damage caused by over-tightening rope, but cannot prevent all possible winch damage. Winch system is very powerful and care should be exercised whenever it is in operation.

Winch operator is always responsible for using winch properly. Autostop system should only be used as secondary preventive measure to help prevent damage to winch from over-tightening rope.

1. To extend rope, depress and hold OUT button. To recover rope, depress and hold IN button.

IMPORTANT

During rope retraction winch should automatically stop when magnetic stop comes close to or contacts autostop fairlead (within approximately 1 inch (25 mm)). Magnets in stop trigger sensors in fairlead, stopping winch.



GEAR SELECTION

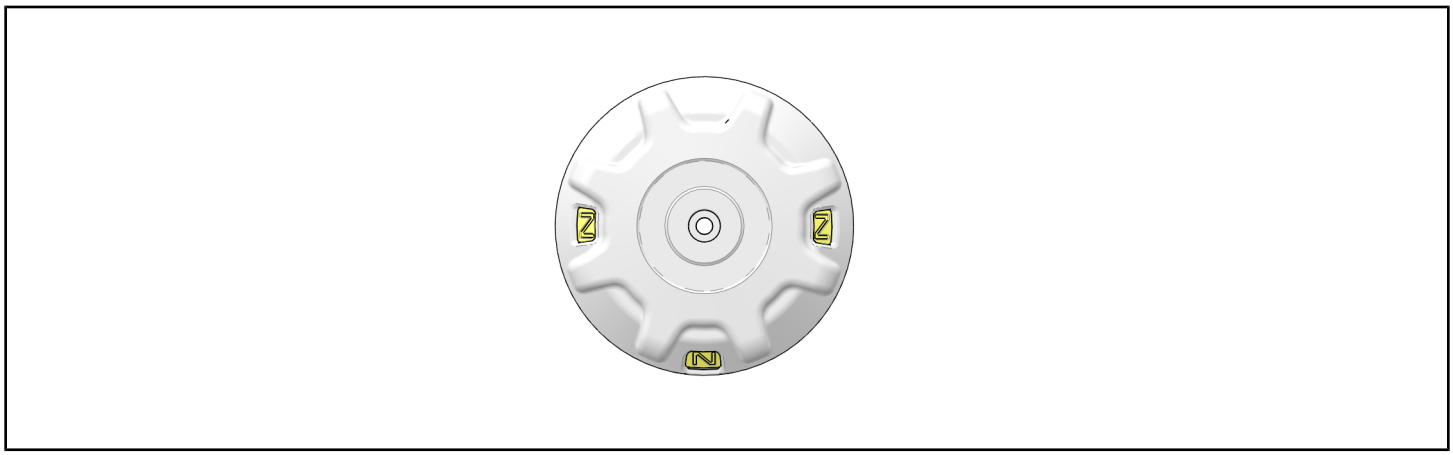
⚠ WARNING

Do NOT attempt to change gear setting while rope is under tension. Failure to relieve rope tension prior to changing gears may result in winch failure, resulting in serious personal injury or death.

Your winch is equipped with three different gear settings: N (NEUTRAL), L (LOW), and H (HIGH).

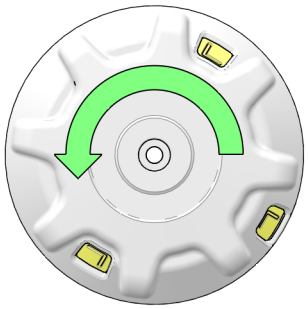
NEUTRAL: RAPIDLY EXTEND ROPE

When in neutral, N will be visible in cutout window on shift knob (LH side of winch).



LOW: RECOVER LOADED ROPE

Relieve all tension from rope, then rotate gear select knob counter-clockwise until L is visible in shift knob cutout window.



HIGH: RAPIDLY RECOVER UNLOADED ROPE

Relieve all tension from rope, then rotate gear select knob clockwise until H is visible in shift knob cutout window.

If difficulty is encountered while shifting into HIGH, pull winch rope slightly by hand to help align gears.

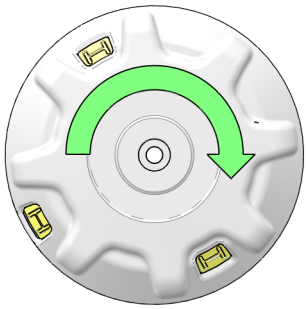
IMPORTANT

High gear is ONLY used for rapid recovery of UNLOADED winch rope. It is NOT intended for rope retraction while under load. Using high gear while under load will result in reduced winch life.

NOTE

Recovery speed in HIGH gear is approximately 5X recovery speed in LOW gear. As result, using this feature will significantly reduce time needed to recover rope after use.

Polaris® recommends always returning gear selector to LOW after rapid recovery to prevent inadvertent future operation in HIGH gear.



WINCH TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES	RECOMMENDED SOLUTION
Dead vehicle battery	Incorrect, damaged, or corroded electrical connections	Verify all winch electrical connections are per instruction manual and free of damage and/or corrosion.
Winch will not operate	Contactor not receiving power	Turn vehicle key on.
	Wireless remote not powered on	Turn wireless remote on.
	Incorrect, damaged, or corroded electrical connections	Verify all winch electrical connections are per instruction manual and free of damage and/or corrosion.
	Keyed power circuit (orange wires) not properly powered	Check 10A accessory circuit fuse for continuity; replace as required.
Winch operates in one direction only	Autostop fairlead not properly connected	If winch operates only outward then ensure magnetic stop (black rubber puck) is not touching autostop fairlead. If winch operates inward even when magnetic stop is touching fairlead then verify all winch electrical connections are per instruction manual and free of damage and/or corrosion.
Winch makes noise but rope does not move	Contactor powered, but not winch	If clicking sound is heard when winch control button is depressed, but winch motor is silent, then verify electrical connections between winch and contactor are free of damage and/or corrosion. If winch makes noise but does not move, verify winch is in gear. If winch is in gear, but winch still does not move, have a dealer inspect the winch.
	Winch not in proper gear	Rotate gear knob fully into L or H, then recheck.
Winch operates too slowly	Winch is improperly loaded	Verify rope is not binding on spool or fairlead. **IMPORTANT** High gear is ONLY used for rapid recovery of the UNLOADED winch rope. It is NOT intended for rope retraction while under load. Using high gear while under load will result in reduced winch life.
	Winch not in proper gear	Rotate gear knob fully into L or H, then recheck. **NOTE** Winch is designed to operate slowly in low gear.
Winch will not change gears	Rope is under load	Changing gears while under load is intentionally difficult to prevent accidental operation, which could lead to personal injury or winch failure. Ensure rope is under no tension, and rope is not binding on spool or fairlead. Briefly operate winch, then attempt to shift again.

FEEDBACK FORM

A feedback form has been created for the installer to provide any comments, questions or concerns about the installation instructions. The form is viewable on mobile devices by scanning the QR code or by clicking **HERE** if viewing on a PC.