

# SPORTSMAN® 1000S/SCRAMBLER® 1000S WINCH KITS

P/N 2883578;2883579;2883580

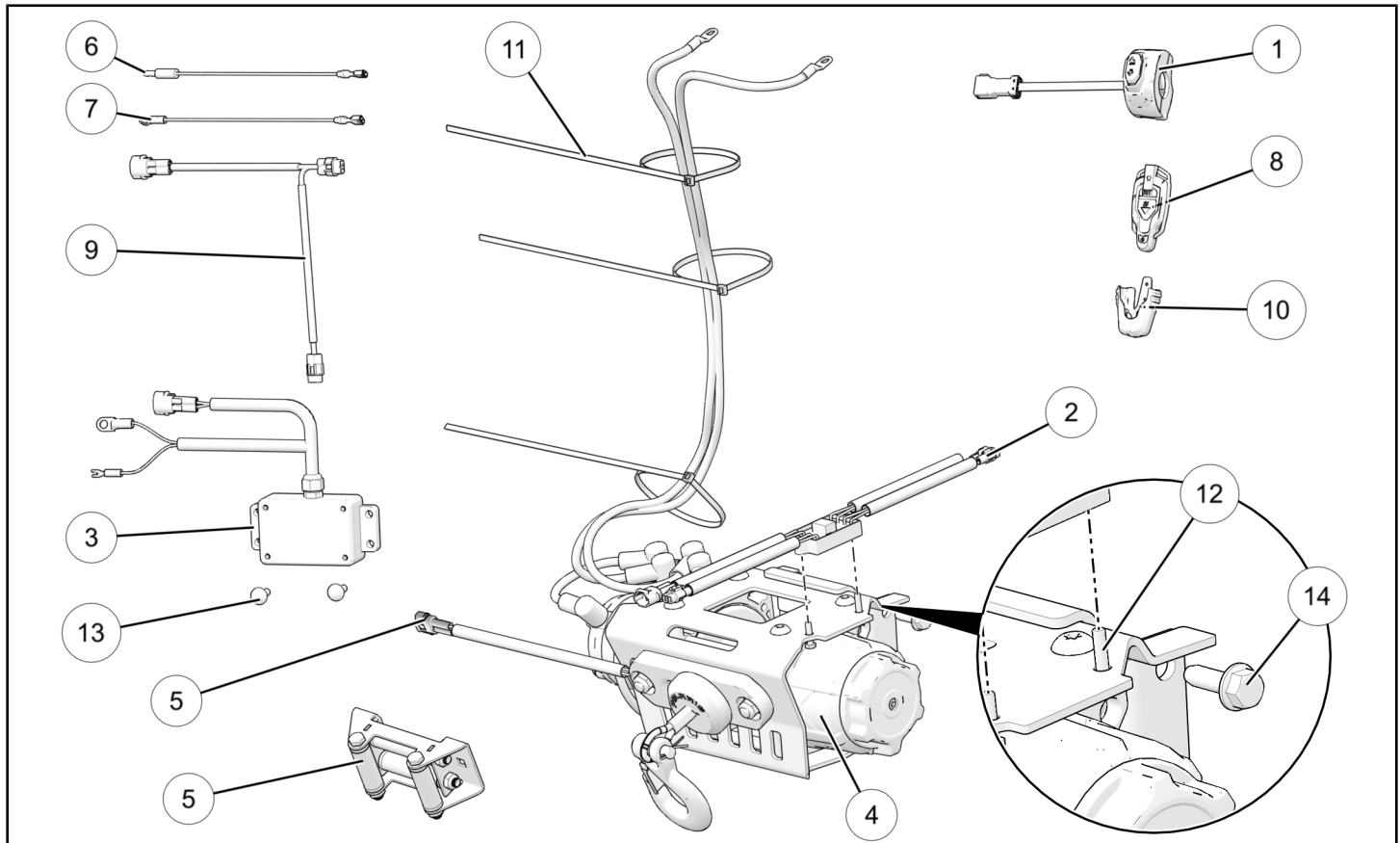


## BEFORE YOU BEGIN

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

This Kit includes:



REF	QTY	PART DESCRIPTION	KIT PN 2883578	KIT PN 2883579	KIT PN 2883580
1	1	Handlebar Switch	2207175	2207175	2207175
2	1	Control Box	-	-	2413444
3	1	Wireless Receiver/Remote Kit	-	-	2879316
4	1	Winch - 3.5 RRR Winch - 3.5 Winch - 2.5	- - 2883578	- 2883579 -	2883580 - -
5	1	Autostop Fairlead (shown on winch) Roller Fairlead (shown separately)	- 2411848	- 2411848	2881693
6	1	Jumper Wire	-	-	4016220

REF	QTY	PART DESCRIPTION	KIT PN 2883578	KIT PN 2883579	KIT PN 2883580
7	1	Jumper Wire, Ring Terminal	-	-	4016221
8	1	Wireless Remote	-	-	2879316
9	1	Wireless Remote Harness	-	-	4017126
10	1	Wireless Remote Holder	-	-	2879316
11	5	Cable Tie	7080492	7080492	7080492
12*	2	Screw, 10–24 X .075	7511930	7511930	7511930
13*	2	Screw, M6 X 1.0 X 20	7518976	7518976	7518976
14*	4	Screw, M8 X 1.25 X 25	7519156	7519156	7519156
	1	Instructions	9929007	9929007	9929007

Items marked \* available in Hardware Service Kit PN 2880643

## TOOLS REQUIRED

- Safety Glasses
- Pliers, Push Pin Rivet
- Pliers, Side Cutting
- Socket Set, Hex Bit, Metric
- Socket Set, Metric
- Socket Set, Torx® Bit
- Torque Wrench
- Wrench Set, Metric

## IMPORTANT

Your Sportsman® 1000S/Scrambler® 1000S Winch Kits 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

### CAUTION

**BEFORE STARTING INSTALLATION**, always ensure vehicle is properly secured on a flat stable surface to avoid accidental tipping, unwanted movement and to prevent personal injury and/or damage to equipment. Shift vehicle transmission into "PARK". Turn key to "OFF" position and remove from vehicle.

### NOTE

The winch kits listed in this instruction are designed to be installed on multiple models. Each step listed will have specific model information listed with the corresponding steps.

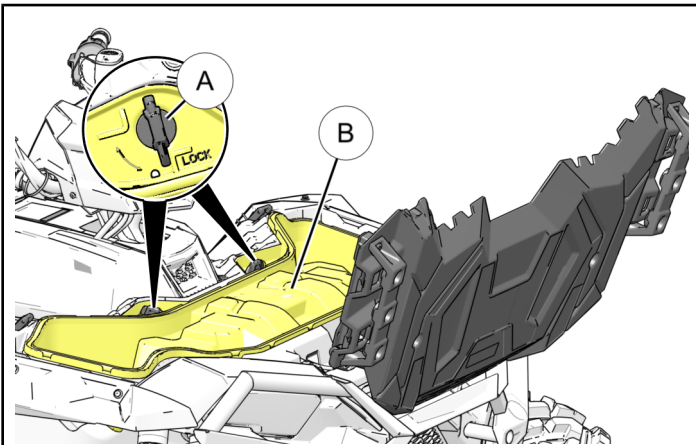
### 1. DISCONNECT BATTERY.

#### ⚠ WARNING

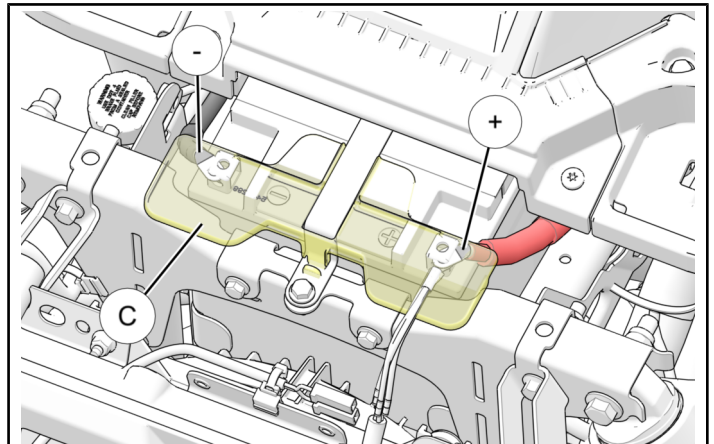
**ALWAYS** disconnect black negative (-) cable from battery **FIRST**. Failure to do so will result in a high current electrical arc, and may result in battery explosion, if tool touches grounded frame. Death or serious personal injury may occur.

#### SPORTSMAN

- Open the front rack/storage bin cover.
- Rotate the locking latches (A) to the unlocked position and remove storage bin (B).



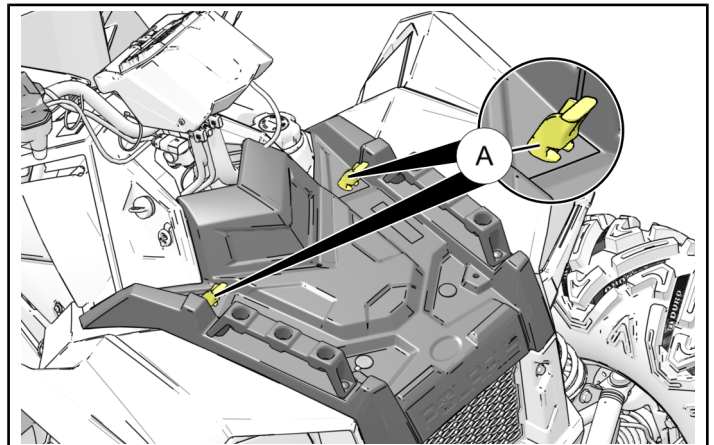
- Lift the protective rubber battery cover (C) to gain access to the battery terminals.



- Disconnect black negative (-) cable from battery **FIRST**.
- Next, disconnect red positive (+) cable from battery.

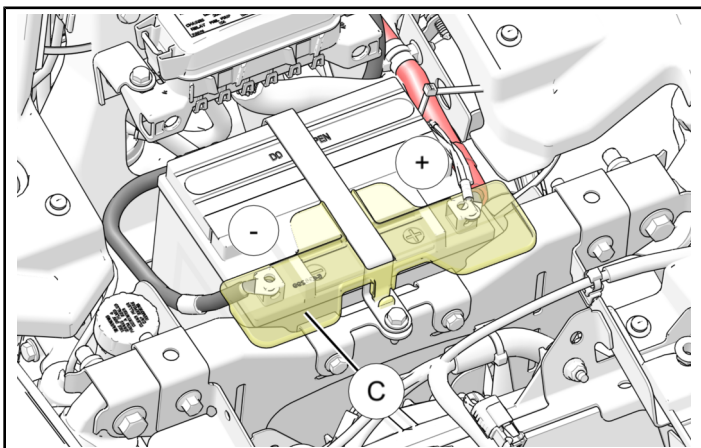
#### SCRAMBLER

- Rotate Lock & Ride® lever (A) into the upright position.



- Lift the rear of the rack upwards and remove front rack.

- c. Lift the protective rubber battery cover ③ to gain access to the battery terminals.



- d. Disconnect black negative (-) cable from battery **FIRST**.  
e. Next, disconnect red positive (+) cable from battery.

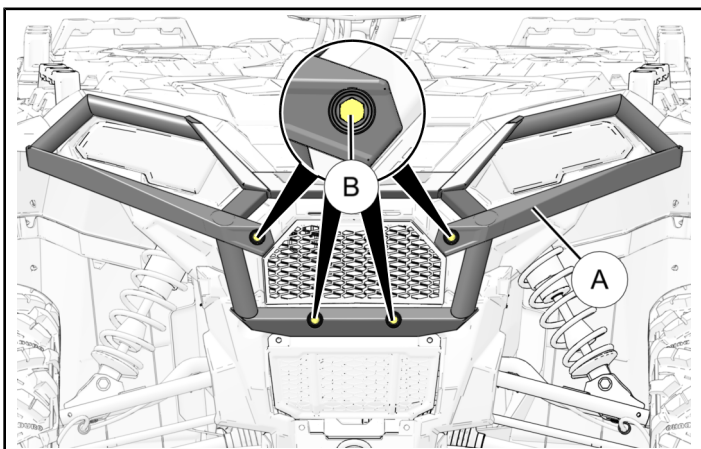
## 2. REMOVE BUMPER.

### SPORTSMAN

- a. Remove front bumper assembly ① by slightly loosening four taper lock bolts ② just enough to remove bumper assembly.

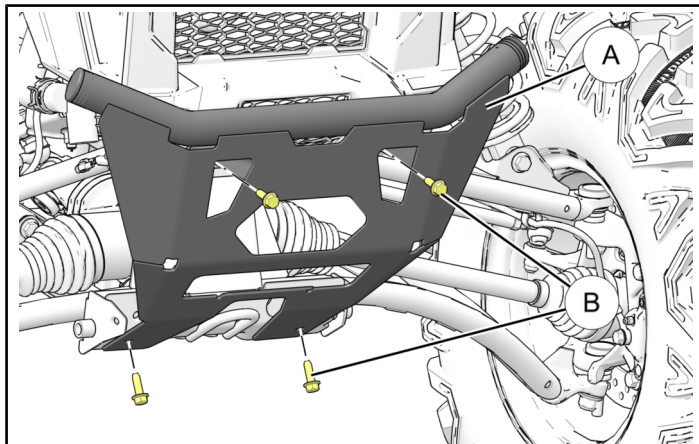
#### **NOTE**

DO NOT completely remove taper lock bolts.



### SCRAMBLER

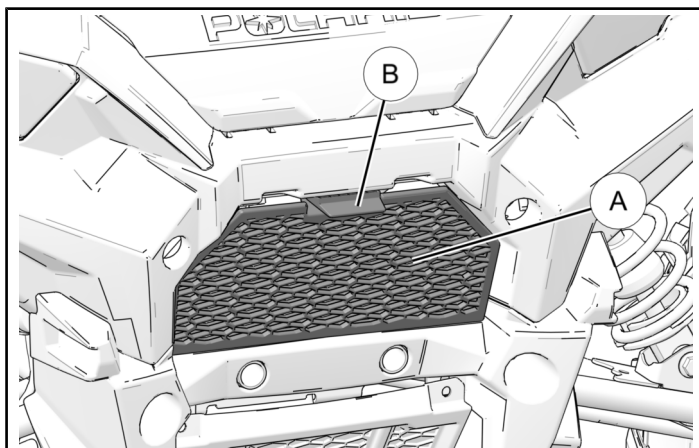
- a. Remove the four mounting bolts ②, then remove bumper. Retain bolts for later use.



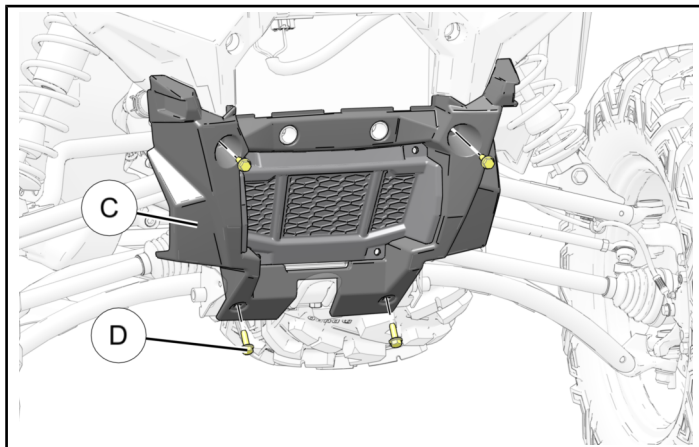
- b. Once bumper is removed, proceed to step 4.

## 3. REMOVE FRONT FASCIA/WINCH COVER. (SPORTSMAN ONLY)

- a. Remove front radiator cover ① by pushing down on the mounting tab ② and rotating top portion of cover outward. Once the upper portion is out away from the bumper, pull up to remove.



- b. Next, remove the four fasteners that secure the front fascia to the vehicle and remove front fascia.





#### 4. INSTALL WINCH ASSEMBLY.

##### SPORTSMAN

- a. Install winch assembly to chassis frame using the provided four screws ⑭ as shown. Check that all wires are free to move and not pinched between the vehicle chassis and the winch assembly.

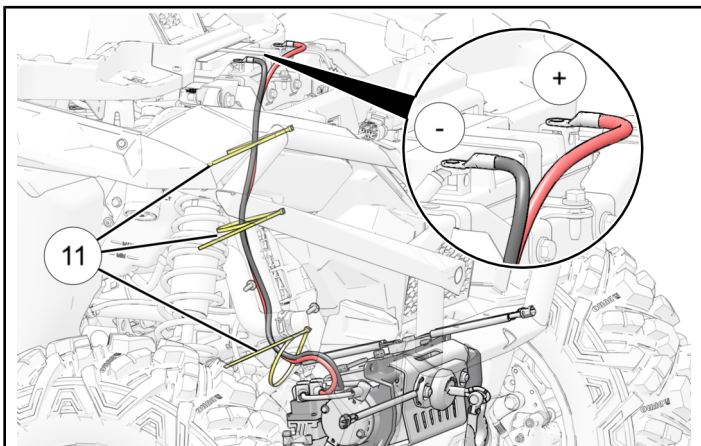
Torque screws to specification.

##### **TORQUE**

20 ft. lbs. (27.1 Nm)



- b. Route red positive (+) and black negative (-) winch cables to the battery compartment area. Attach cables to chassis/frame at various locations using supplied cable ties ⑪ to ensure the cables stay clear of any moving parts, sharp edges and/or hot surfaces. DO NOT connect winch cables to the battery terminals at this time.



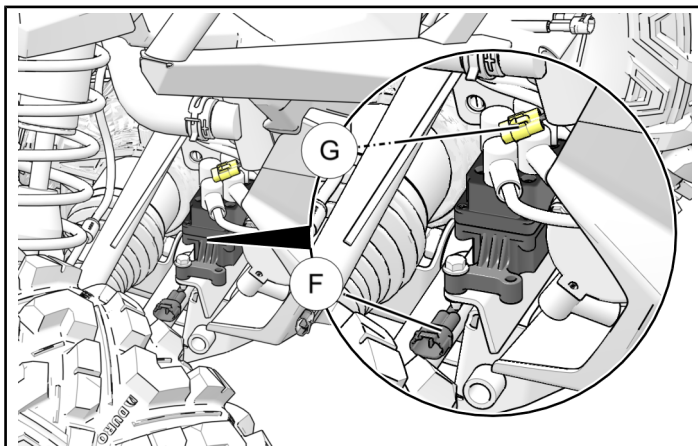
##### **NOTE**

The following step (4c) applies to NON-AUTOSTOP/ WIRELESS EQUIPPED KITS ONLY. If you have Kit PN 2883580 DO NOT complete this step as the following connections will be made in step 10a.

- c. For Kit PN 2883578 & Kit PN 2883579, locate the chassis side contactor connector ⑥ on the vehicle main wire harness. Connect the contactor connector ⑥ on the winch to the chassis harness connector G.

##### **NOTE**

Sportsman model shown. Identical procedure for Scrambler model.



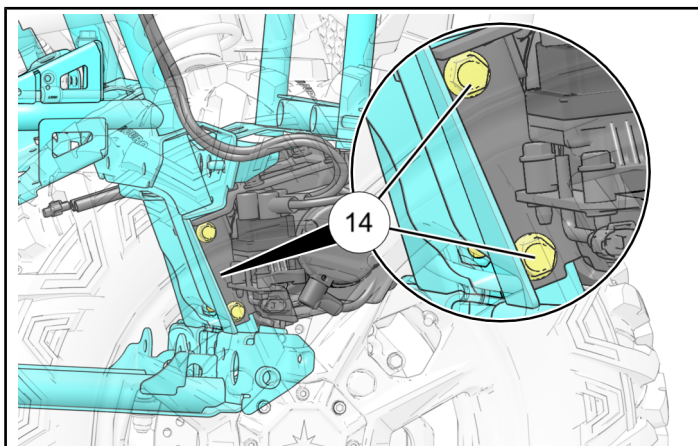
##### SCRAMBLER

- a. Install winch assembly to chassis frame using the provided four screws ⑭ as shown. Check that all wires are free to move and not pinched between the vehicle chassis and the winch assembly.

Torque screws to specification.

##### **TORQUE**

20 ft. lbs. (27.1 Nm)



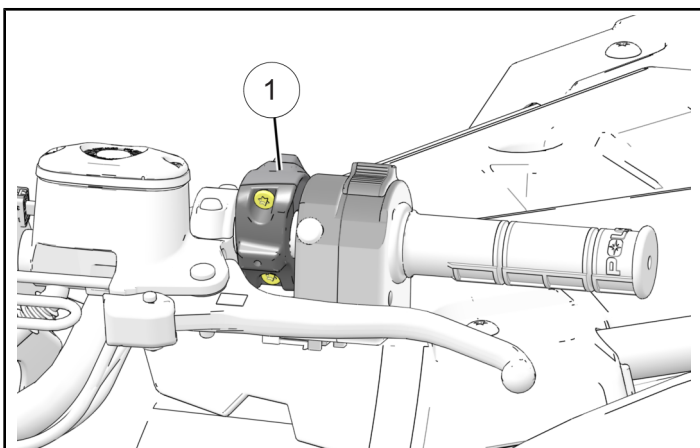
- b. Route red positive (+) and black negative (-) winch cables to the battery compartment area. Attach cables to chassis/frame at various locations using supplied cable ties ⑪ to ensure the cables stay clear of any moving parts, sharp edges and/or hot surfaces. DO NOT connect winch cables to the battery terminals at this time.

**5. INSTALL HANDLEBAR SWITCH.** (Same procedure for all models.)

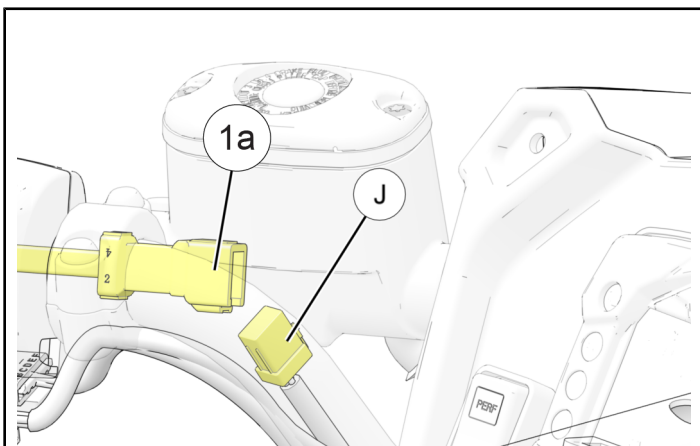
- a. Install winch handlebar switch ⑩ using supplied screws as shown. Tighten the screws until assembly is tight being careful not to overtighten. Torque to specification.

**TORQUE**

2 ft. lbs. (2.7 Nm)



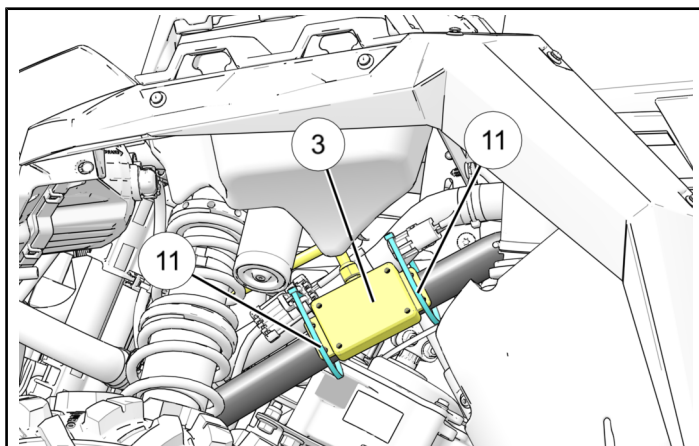
- b. Connect handlebar switch connector (3a) to the vehicle main wire harness connector J as shown.



**6. INSTALL WIRELESS RECEIVER.** (WINCH KIT 2883580 ONLY)

**SPORTSMAN**

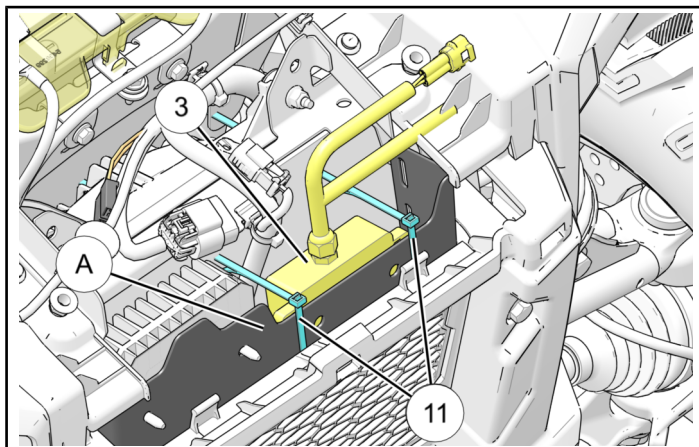
- a. Place the wireless receiver in the approximate location shown and secure it to the engine coolant hose with provided cable ties.



- b. Route orange and black power wires from wireless receiver to the battery compartment area. Attach cables to chassis/frame at various locations using supplied cable ties to ensure the cables stay clear of any moving parts, sharp edges and/or hot surfaces. DO NOT connect at this time.

**SCRAMBLER**

- a. Place the wireless receiver in the approximate location shown and secure it to the regulator mounting bracket A with provided cable ties.



- b. Route orange and black power wires from wireless receiver to the battery compartment area. Attach cables to chassis/frame at various locations using supplied cable ties to ensure the cables stay clear of any moving parts, sharp edges and/or hot surfaces. DO NOT connect at this time.

## 7. CONNECT ALL REMAINING ELECTRICAL COMPONENTS.

### NOTE

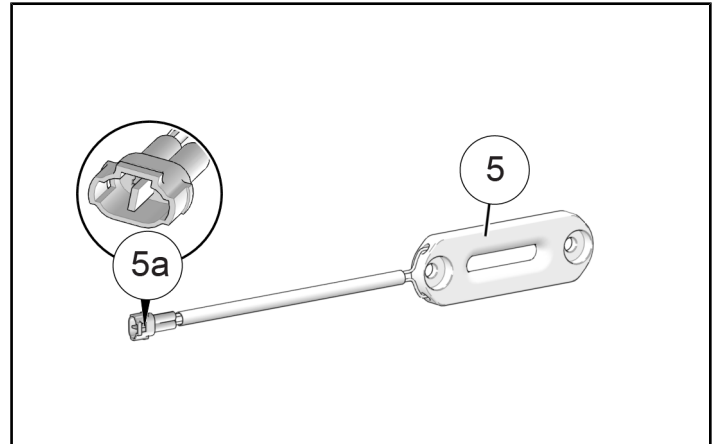
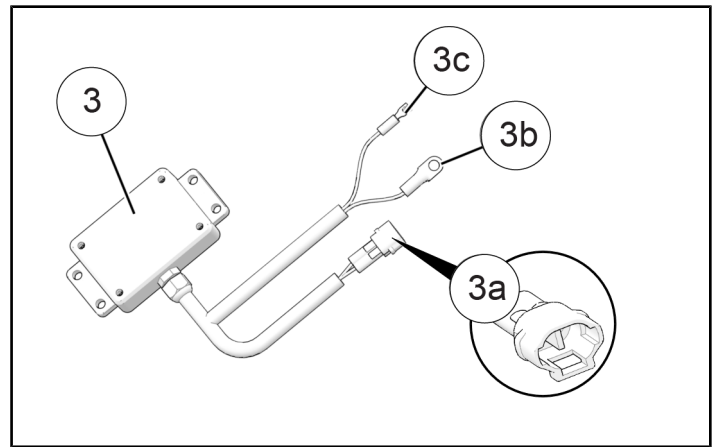
Sportsman model shown for instruction purposes. Connections are similar between vehicle models.

Refer to the Electrical Connection Reference Guide section of the instruction for images of the proper electrical connections per your specific kit.

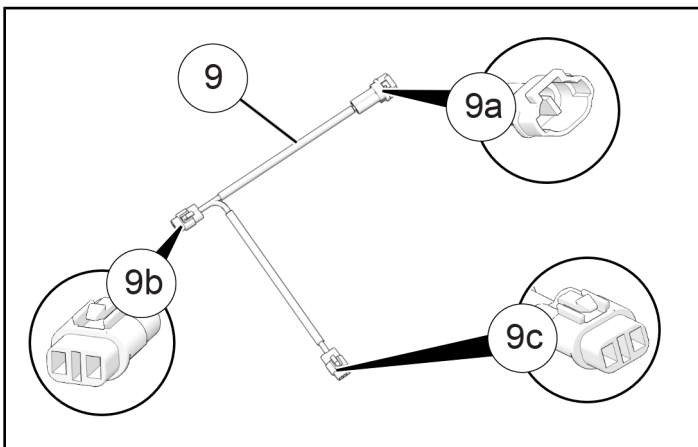
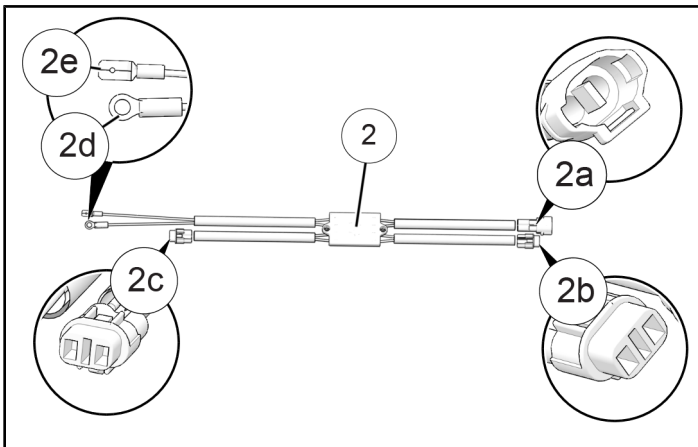
You may also refer to the detailed harness connection images provided below of the Control Box ②, Wireless Receiver Harness ⑨, Wireless Receiver ③ and Autostop Assembly ⑤ to aid in the remaining electrical connections.

### IMPORTANT

When making connections, ensure all wires are routed and secured with cable ties away from all heat sources, moving components and sharp edges. Failure to do so may cause damage to electrical wires and/or underlying components which may cause the winch to malfunction.

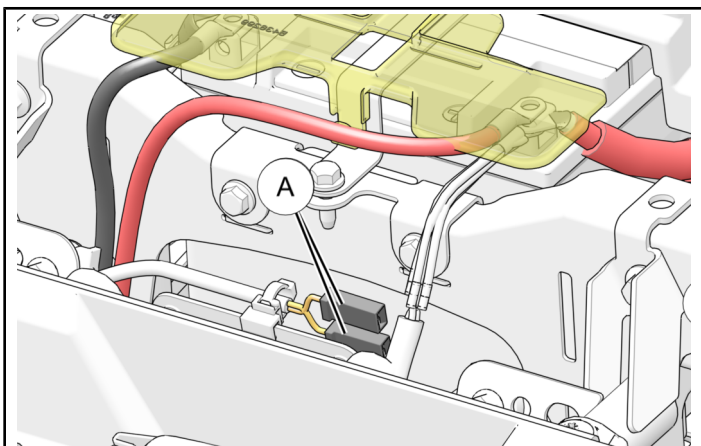


- First, locate control box connector (2C) and connect it to the autostop connector (5A).
- Next connect the control box connector (2B) and connect it to the winch contactor connector (F) shown in step 4c.
- Connect the wireless receiver harness connector (9B) to the control box connector (2A).
- Locate the wireless receiver connector (3A) and connect it to the wireless receiver harness connector (9C).
- Route the orange and black power wires, (2D) and (2E), from the control box ② along with wires (3B) and (3C) from the wireless receiver ③ to the battery compartment area being sure to avoid any moving parts and heat sources.

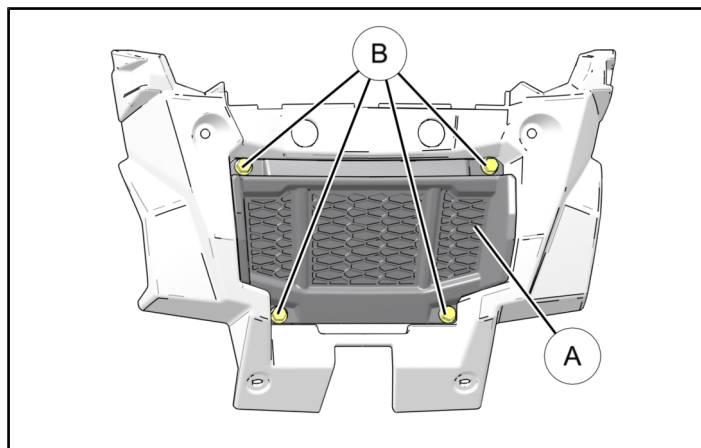




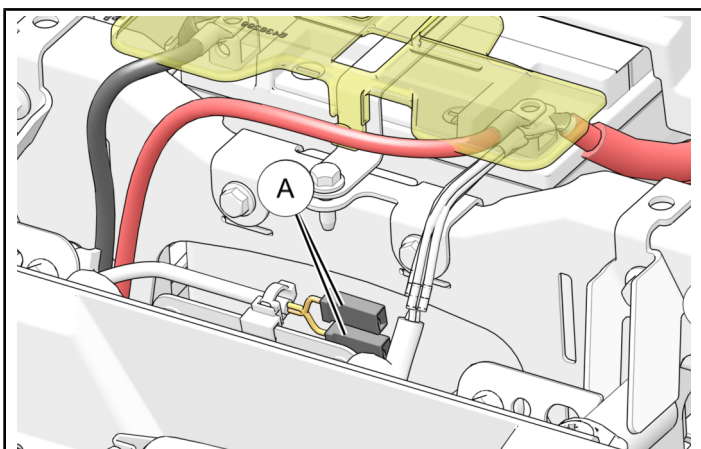
- 8. REINSTALL FRONT FASCIA. (SPORTSMAN ONLY)**



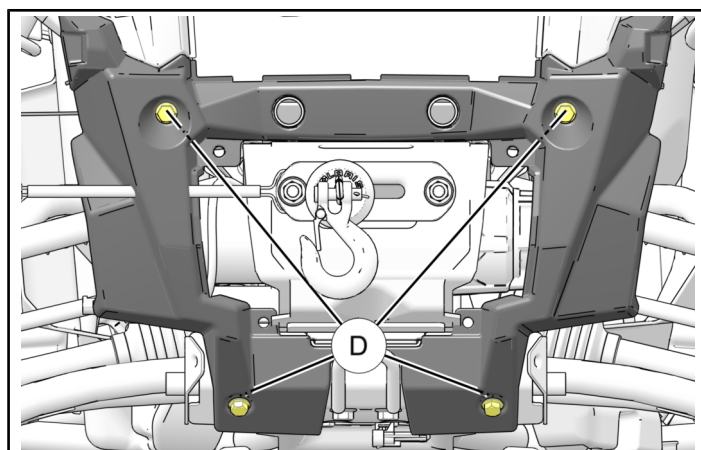
a. Remove winch cover **(A)** by removing four fasteners **(B)** and separating the winch cover from the fascia **(C)**.



- b. Install fascia onto vehicle using four previously removed fasteners ④. Torque fasteners to specification.



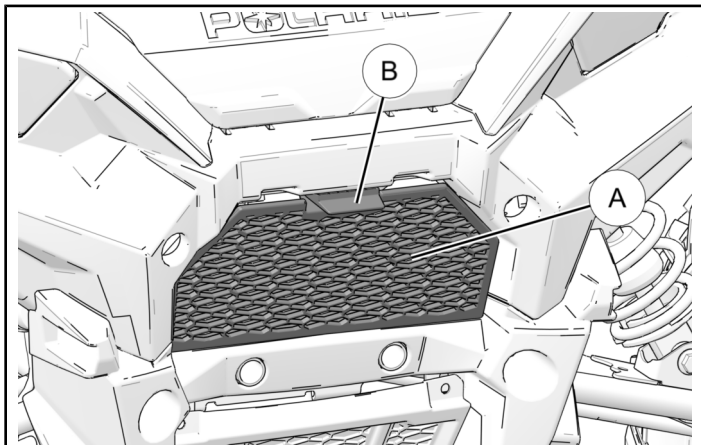
<b>TORQUE</b>
16 ft. lbs. (21.7 Nm)



- h. Secure all wires in place, away from all moving parts and heat sources, with provided cable ties (11).



- c. Reinstall front radiator cover (A) by inserting lower tabs into corresponding slots in fascia then pushing upper portion of radiator cover back into position ensuring tab (B) snaps back into place.



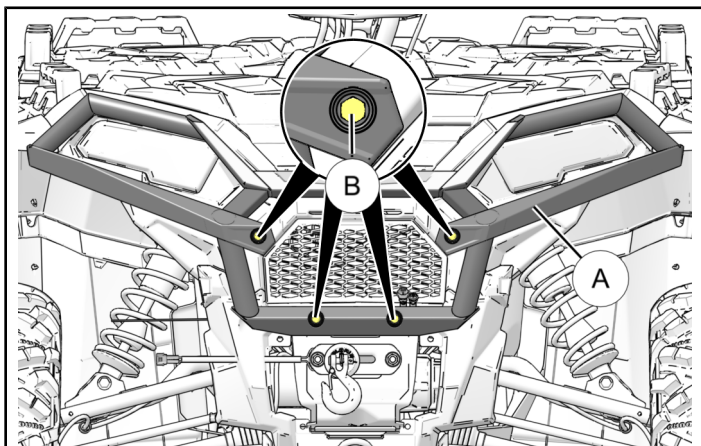
## 9. REINSTALL FRONT BUMPER.

### SPORTSMAN

- a. Place front bumper assembly (A) back into position. Torque all four taper lock bolts (B) to specification provided.

#### TORQUE

17 ft. lbs. (23 Nm)

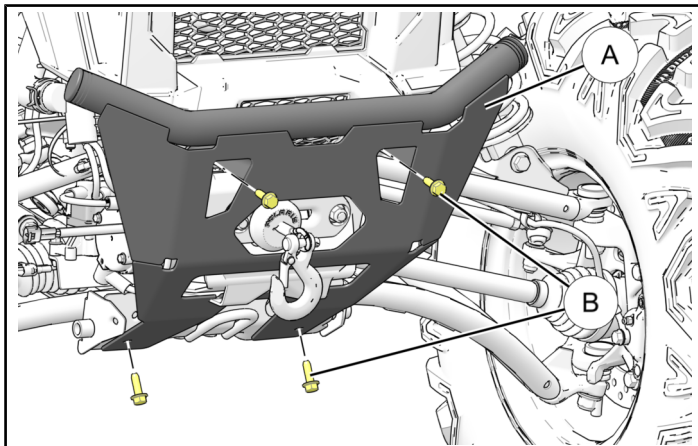


## SCRAMBLER

- a. Place front bumper assembly (A) back into position. Torque all four bolts (B) to specification provided.

#### TORQUE

17 ft. lbs. (23 Nm)



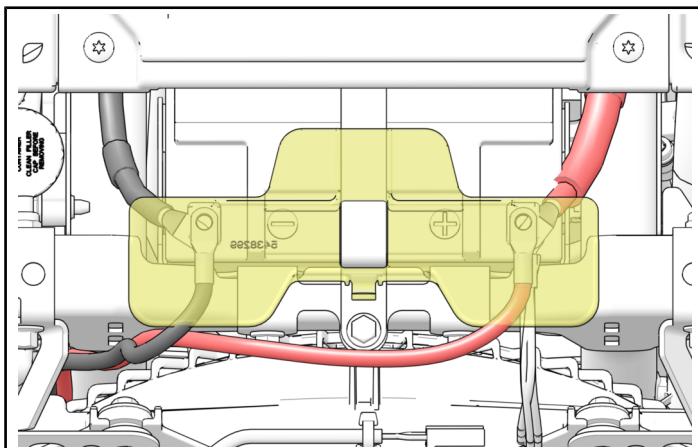
## 10. CONNECT BATTERY. (Same procedure for all models.)

### ⚠ WARNING

When BOTH battery cables are disconnected **ALWAYS** reconnect AND tighten red positive (+) cable to battery **FIRST**. Failure to do so will result in a high current electrical arc, and may result in battery explosion, if tool touches grounded frame. Death or serious personal injury may occur.

- a. Reinstall red positive (+) cable to positive (+) battery terminal.
- b. Reinstall black negative (-) cable to negative (-) battery terminal.

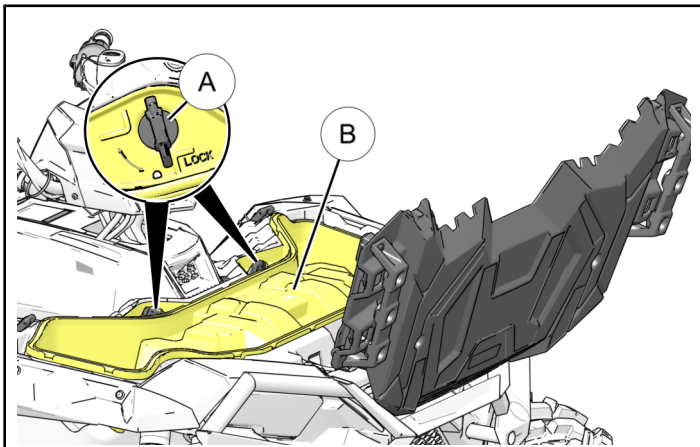
c.



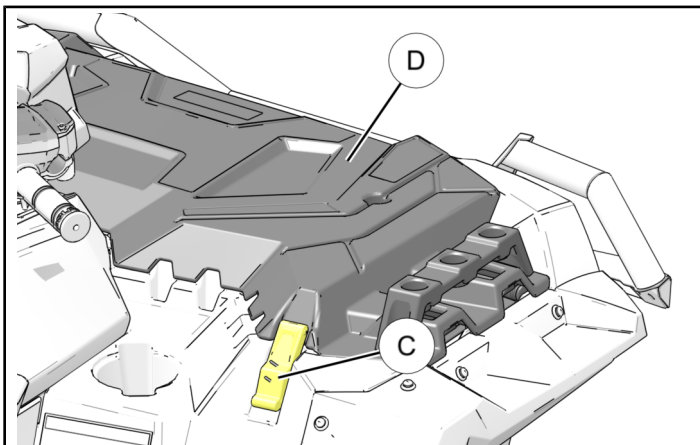
## 11. SECURE FRONT RACK/STORAGE BIN COVER.

### SPORTSMAN

- a. Replace the storage bin ⑥ back into position. Rotate the locking latches ① to the locked position to secure bin in place.



- b. Close front rack/storage bin cover ① and secure using latches ③.

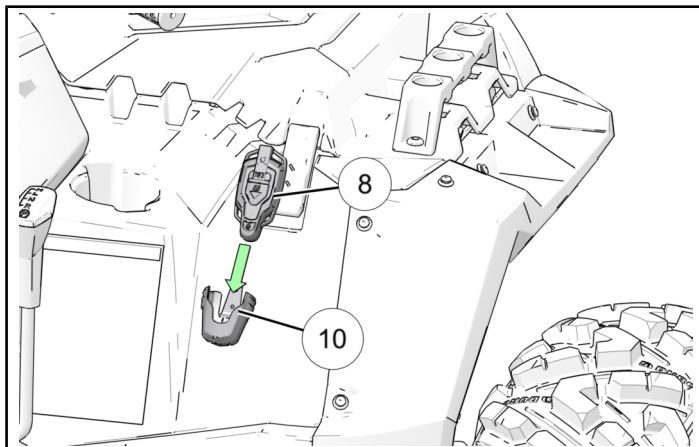


### SCRAMBLER

- a. Place front rack back into position making sure the front tabs are engaged. Press firmly down on rear of rack and rotate locking latches back down into the locked position.

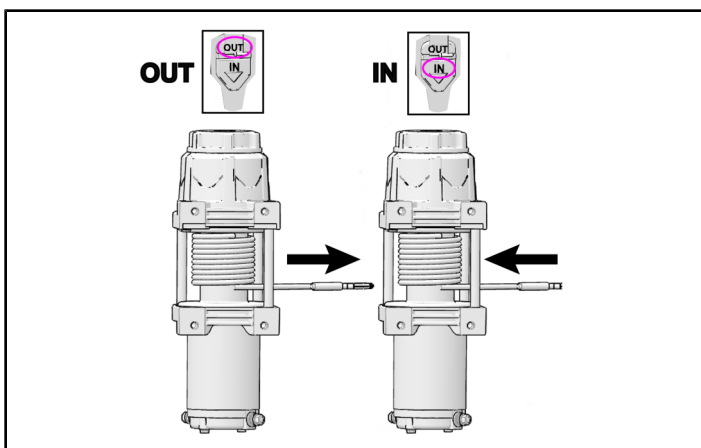
## 12. **OPTIONAL STEP - INSTALL WIRELESS REMOTE.** (Same procedure for all models.)

- a. Wireless remote holder ⑩ can be installed in desired location on vehicle. Use screws supplied in the wireless remote kit for holder installation. Location shown is for REFERENCE ONLY.



### 13. VERIFY WORK.

- a. Confirm all electrical wires/connections have been routed and connected per instructions.
- b. Confirm that there are no exposed wires or terminals.
- c. Ensure all loose wires are secured away from moving parts, sharp edges and heat sources.
- d. With the vehicle key in the “ON” position, check winch for proper operation.
  - i. Shift winch into each of the gear settings, HIGH/LOW/NEUTRAL, and verify proper function.
  - ii. Test function of Autostop feature. When reeling in the winch rope, confirm that the winch will turn off automatically when the rubber puck reaches the aluminum fairlead. The winch should not allow the rope to be reeled in once the rubber puck has come within a close proximity (typically 1” or less) or made contact to the fairlead.
  - iii. If the Autostop is not functioning properly, see troubleshooting information at the end of the instructions.



## TROUBLESHOOTING

If your winch/Autostop is not functioning properly, below is a short guide that can help you diagnose and correct the problem.

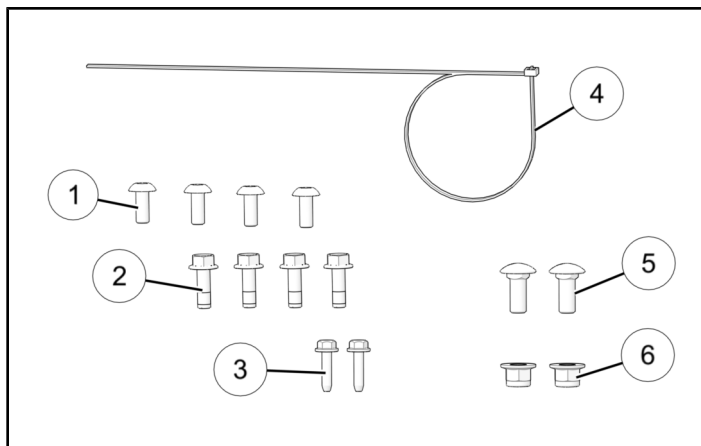
SYMPTOM	POSSIBLE CAUSES	RECOMMENDED SOLUTION
Dead vehicle battery Dead vehicle battery	Incorrect, damaged, or corroded electrical connections	Verify all winch electrical connections are per instruction manual and free of damage and/or corrosion.
Winch will not operate	Contactors not receiving power	Turn 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/cable does not move	Contactors 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 contactors 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 operates too slowly	Winch is improperly loaded	Verify rope/cable is not binding on spool or fairlead.
Winch will not change gears	Rope/cable 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/cable is under no tension, and rope/cable is not binding on spool or fairlead. Briefly operate winch, then attempt to shift again.



## WINCH SERVICE KITS

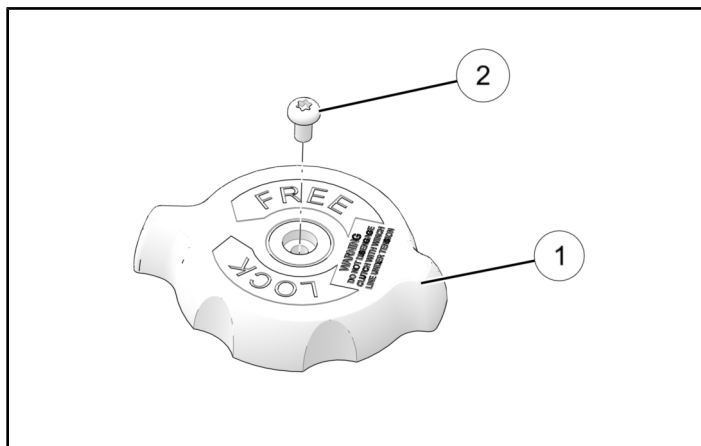
### 2500 SERIES WINCH SERVICE KITS

#### Winch Hardware Kit: PN 2880643



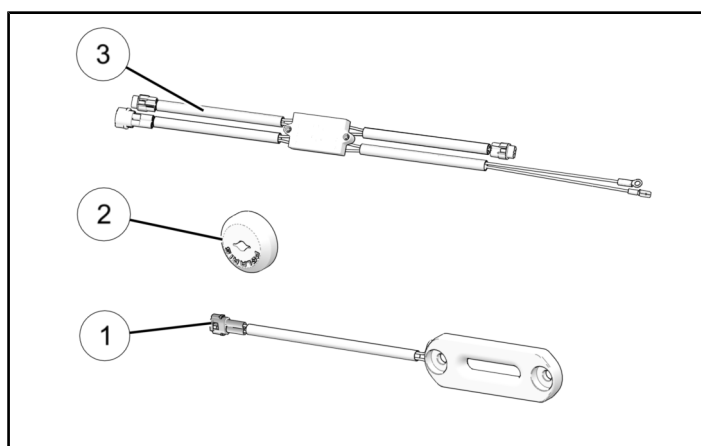
REF	QTY	PART DESCRIPTION
1	4	Screw, Torx - M8 X 1.25 X 20
2	4	Screw, Hex - M8 X 1.25 X 25
3	2	Screw - M6 X 1.0 X 25
4	6	Cable Tie
5	2	Screw, Carriage - M10 X 1.5 X 25
6	2	Locking Nut - M10 X 1.5

#### Service Handle Kit: PN 2205265



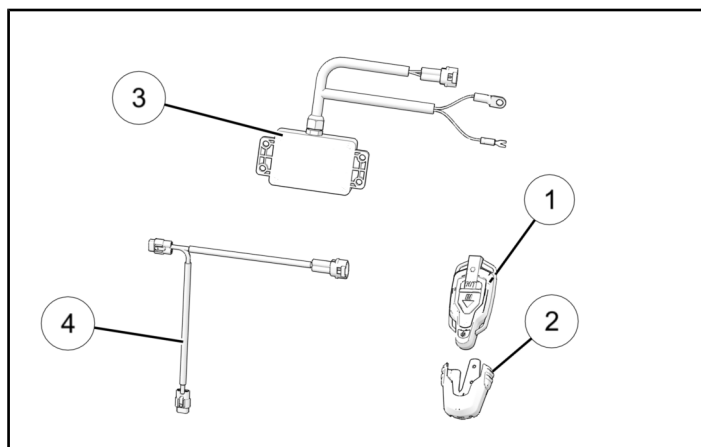
REF	QTY	PART DESCRIPTION
1	1	Service Handle
2	1	Screw

#### Autostop Service Kit: PN 2881693



REF	QTY	PART DESCRIPTION
1	1	Autostop Fairlead
2	1	Rubber Puck
3	1	Control Box

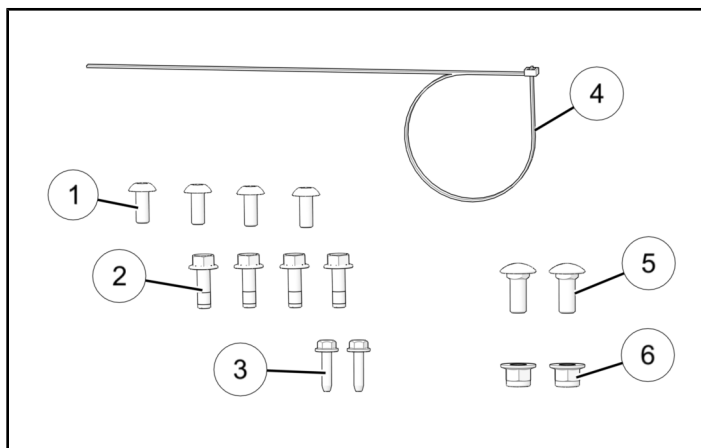
#### Universal Wireless Remote Kit: PN 2879316



REF	QTY	PART DESCRIPTION
1	1	Wireless Remote
2	1	Wireless Remote Holder
3	1	Wireless Receiver
4	1	Wireless Remote Harness

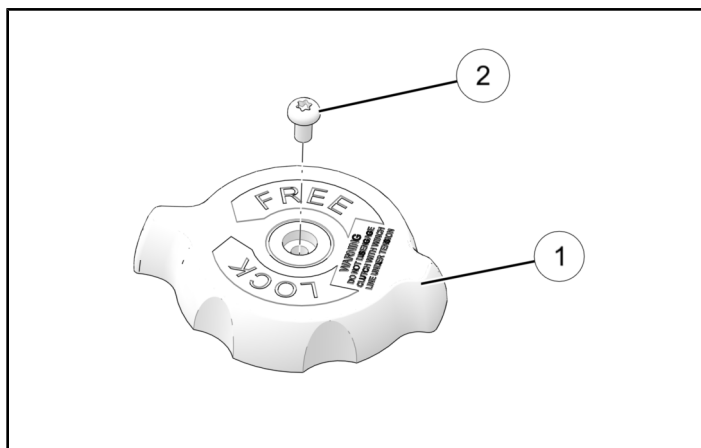
## 3500 SERIES WINCH SERVICE KITS

### Winch Hardware Kit: PN 2880643



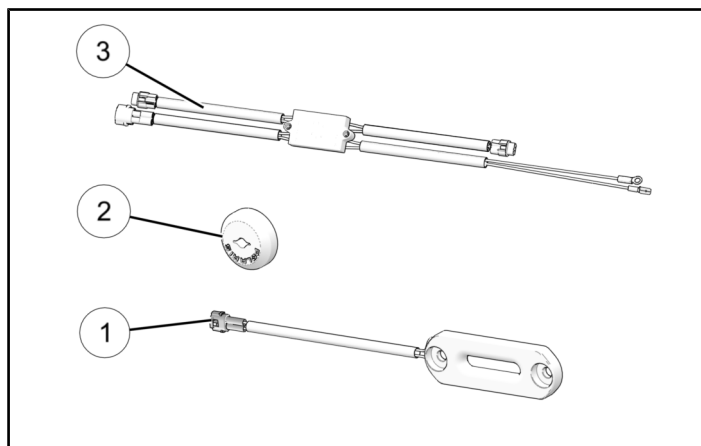
REF	QTY	PART DESCRIPTION
1	4	Screw, Torx - M8 X 1.25 X 20
2	4	Screw, Hex - M8 X 1.25 X 25
3	2	Screw - M6 X 1.0 X 25
4	6	Cable Tie
5	2	Screw, Carriage - M10 X 1.5 X 25
6	2	Locking Nut - M10 X 1.5

### Service Handle Kit: PN 2205265



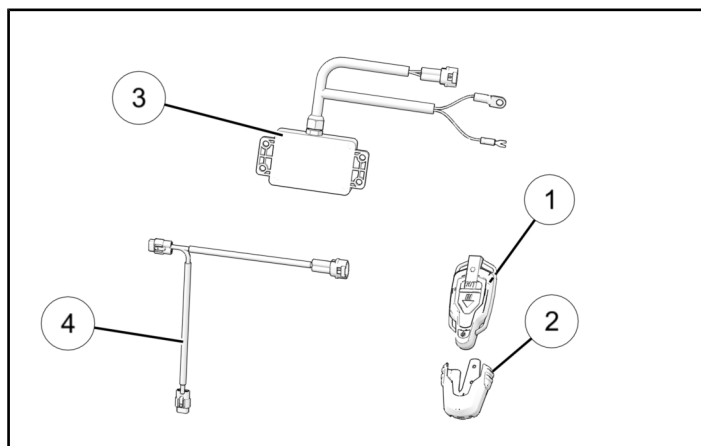
REF	QTY	PART DESCRIPTION
1	1	Service Handle
2	1	Screw

### Autostop Service Kit: PN 2881693



REF	QTY	PART DESCRIPTION
1	1	Autostop Fairlead
2	1	Rubber Puck
3	1	Control Box

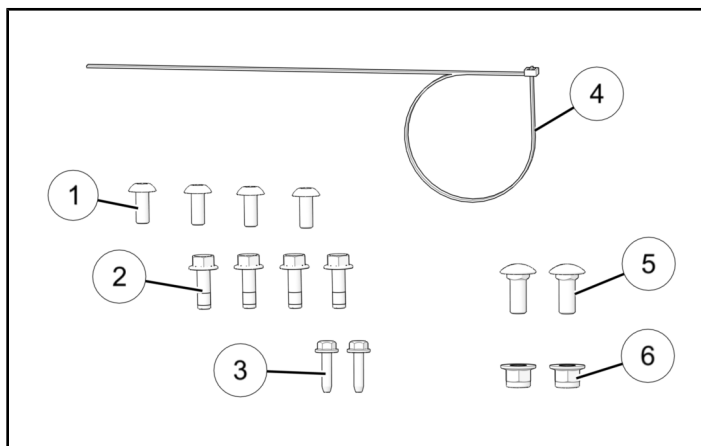
### Universal Wireless Remote Kit: PN 2879316



REF	QTY	PART DESCRIPTION
1	1	Wireless Remote
2	1	Wireless Remote Holder
3	1	Wireless Receiver
4	1	Wireless Remote Harness

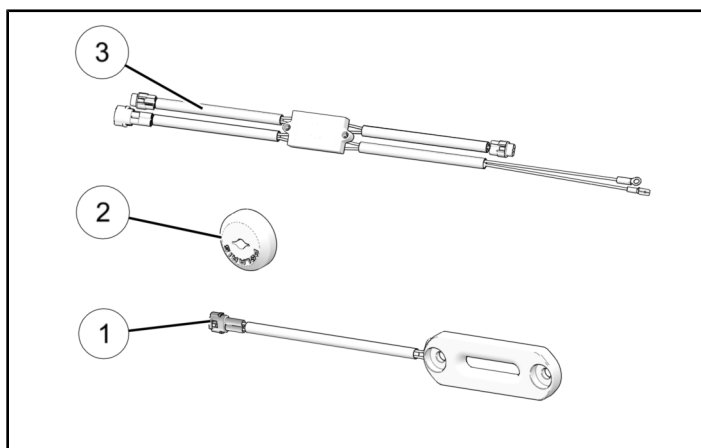
## 3500 SERIES RAPID ROPE RECOVERY WINCH SERVICE KITS

### Winch Hardware Kit: PN 2880643



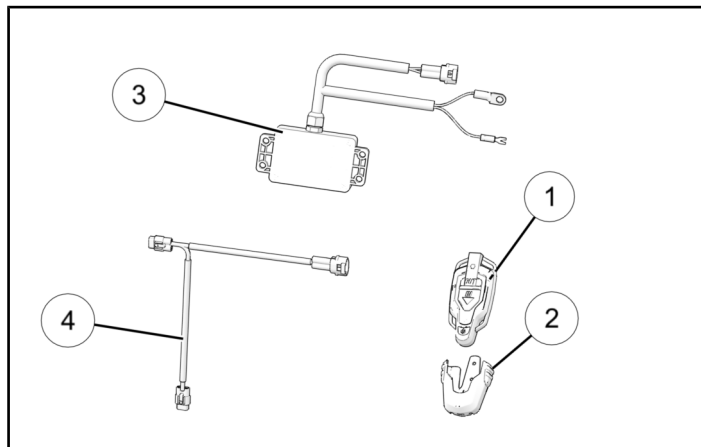
REF	QTY	PART DESCRIPTION
1	4	Screw, Torx - M8 X 1.25 X 20
2	4	Screw, Hex - M8 X 1.25 X 25
3	2	Screw - M6 X 1.0 X 25
4	6	Cable Tie
5	2	Screw, Carriage - M10 X 1.5 X 25
6	2	Locking Nut - M10 X 1.5

### Autostop Service Kit: PN 2881693



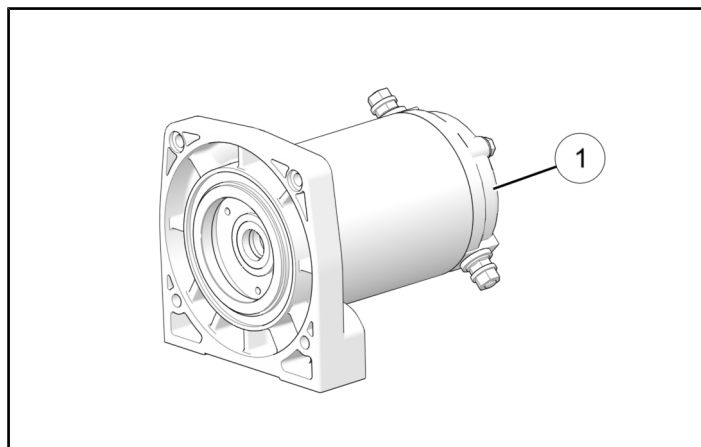
REF	QTY	PART DESCRIPTION
1	1	Autostop Fairlead
2	1	Rubber Puck
3	1	Control Box

### Universal Wireless Remote Kit: PN 2879316

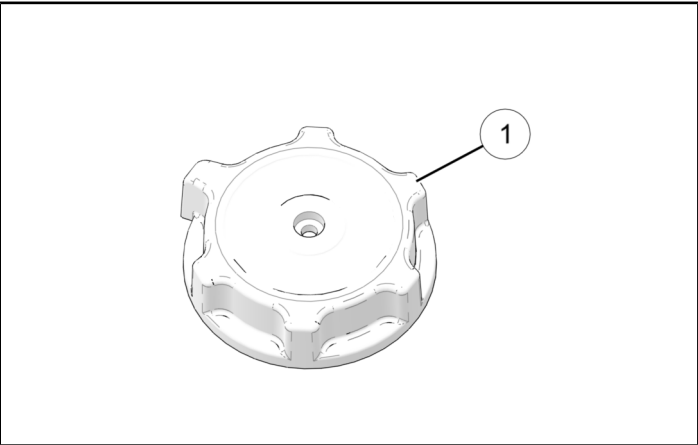


REF	QTY	PART DESCRIPTION
1	1	Wireless Remote
2	1	Wireless Remote Holder
3	1	Wireless Receiver
4	1	Wireless Remote Harness

### Winch Motor Service Kit: PN 2207790



REF	QTY	PART DESCRIPTION
1	1	3500 Winch Motor - Service Kit

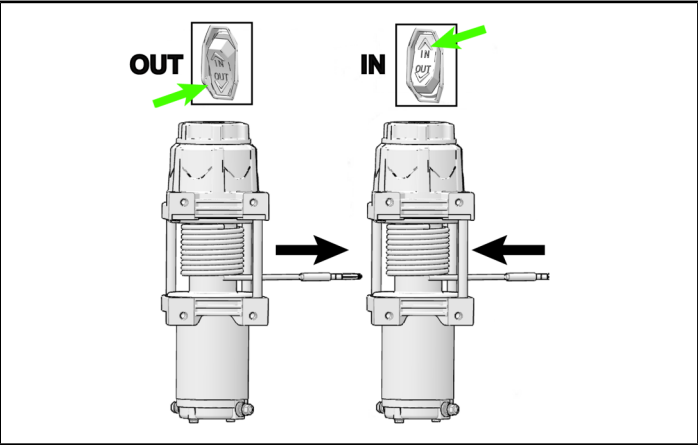


REF	QTY	PART DESCRIPTION
1	1	Service Handle

**OPERATIONAL REFERENCE GUIDE**

**HANDLEBAR SWITCH OPERATION**

- When properly installed, the handlebar switch allows you to operate the winch while seated on the vehicle. See the illustration below for proper switch operation.



**WIRELESS REMOTE OPERATION**

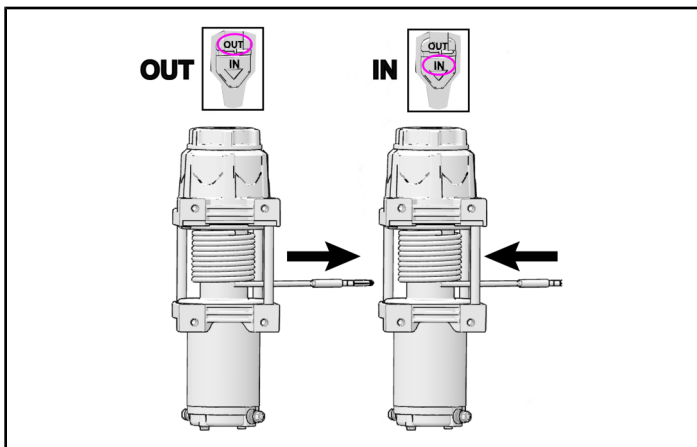
**NOTICE**

The remote will automatically turn itself off after 30 seconds of inactivity. You will therefore need to turn the remote back on if it has been more than 30 seconds since the prior use.

- When properly installed, the wireless remote will allow you to operate the winch from off the vehicle, which can be a safe way to operate the winch when done properly.
- To turn on the wireless remote, hold the small "On/Off" button for three seconds or until the LED light on the remote turns on. If the vehicle is on so that the winch is receiving power, the wireless remote should operate the winch as if you were using the winch switch located on the handlebar. If the remote is not operating properly, see the troubleshooting information at the end of the instructions.



- To manually turn off the remote, hold the small "On/Off" button for 3 seconds or until the LED light turns off. The remote will automatically turn itself off after 30 seconds of inactivity.
- See the illustration below for proper wireless remote operation.



## AUTOSTOP OPERATION

- The Autostop system is meant to help prevent damage to the winch system from over-tightening of the rope, but is not meant to prevent all foreseeable winch damage. The winch is very powerful and care should be exercised whenever it is in operation. The winch operator is always responsible for using the winch properly and the Autostop system should only be used as a secondary preventive measure to help prevent damage to the winch from over-tightening the rope.
- The Autostop system works when the black rubber puck nears the aluminum fairlead. Stop magnets in the puck trigger sensors in the fairlead, which prevent the contactor from pulling in the winch rope any further. During final inspection, confirm that the Autostop is functioning properly.
- Troubleshooting steps are given in the *Troubleshooting* section to help diagnose and correct any problems.

## GEAR SELECTION

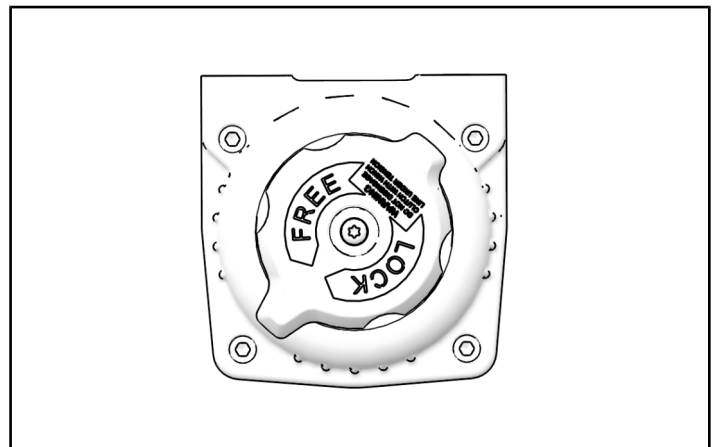
### ⚠ WARNING

**DO NOT** attempt to shift the winch while the rope/cable is under tension. **ALWAYS** make sure the winch rope/cable is not in tension before shifting the winch between gears to avoid damage to the winch mechanism. Failure to comply may lead to death or serious personal injury

### STANDARD WINCH

The standard winch is equipped with two different gear settings: "FREE" and "LOCK".

- **FREE:** Used to rapidly extend the rope/cable.
- **LOCK:** Used to recover the rope/cable and perform winching operations.
- To shift between FREE and LOCK relieve all tension from the rope/cable, then rotate gear selector knob clockwise to engage LOCK mode, or counterclockwise to engage FREE mode.



### DUAL SPEED WINCH

The dual speed winch is equipped with three different gear settings. "HIGH", "NEUTRAL" and "LOW".

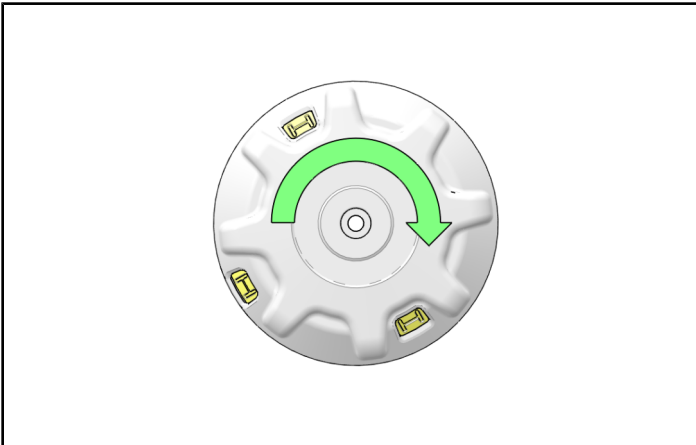
### IMPORTANT

High gear is for rapid recovery of the winch rope/cable only. It is not intended for pulling and will reduce the life of the winch if used under load. See "Rapid Recovery" section for details.

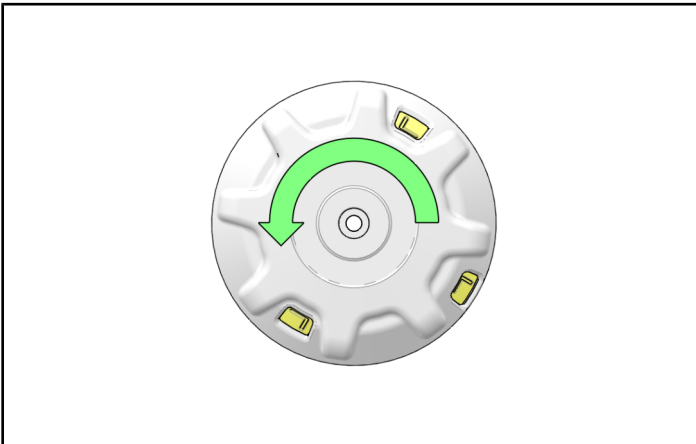
- The neutral setting is meant to be used to free-spool the winch rope/cable for faster deployment. When in neutral, the “N” marking will show thru the cutout window on the shift knob. See photo below.



- To shift into high gear, rotate the gear shifting knob clockwise until the “H” marking shows thru the cutout window on the shift knob. See photo below.



- To shift into low, rotate the gear shifting knob counter-clockwise until the “L” marking shows thru the cutout window on the shift knob. See photo below.



## RAPID RECOVERY WINCH FUNCTION

### NOTE

This section applies **ONLY** to dual speed winch kits

### CAUTION

The rapid recovery function must **ONLY** be used while the rope/cable is under no load. Failure to comply may cause damage to winch and/or related components.

Your winch is equipped to quickly reel in the winch rope when being used under no-load conditions. Using this feature will significantly reduce the time it takes to rewind your rope after use.

#### • When to use.

- Use Rapid Recovery to quickly reel the rope in or out to speed up the recovery process. The rope speed is approximately five times the speed of standard operation, so caution should be taken to always reset the winch to “Low” gear after using the Rapid Recovery so the speed of the winch will not take the operator by surprise. Do not pull loads while in Rapid Recovery gear.

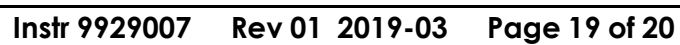
#### • How to shift.

- To operate the Rapid Recovery, make sure the winch is not in operation and the rope is not in tension.
- Rotate the shift knob fully clockwise to engage “High” gear (Rapid Recovery). Pulling slightly on the winch rope by hand will help the gears align and the shift to be completed.
- Use Rapid Recovery only to reel in the rope with “No Load”, then rotate the shift knob back to “Low” gear (standard operating mode) by rotating the knob back fully counter-clockwise.

### ⚠ WARNING

**DO NOT** attempt to shift the winch while the rope is under tension. **ALWAYS** make sure the winch rope is not in tension before shifting the winch between gears to avoid damage to the winch mechanism. Failure to comply may lead to death or serious personal injury

### Winch with auto fairlead, wireless remote, and handle bar switch



## 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.

### FEEDBACK FORM

