

VOLTAGE REGULATOR KIT



P/N 2208110;2208111

APPLICATION

2015-2018 SPORTSMAN 450 / 570 / TOURING

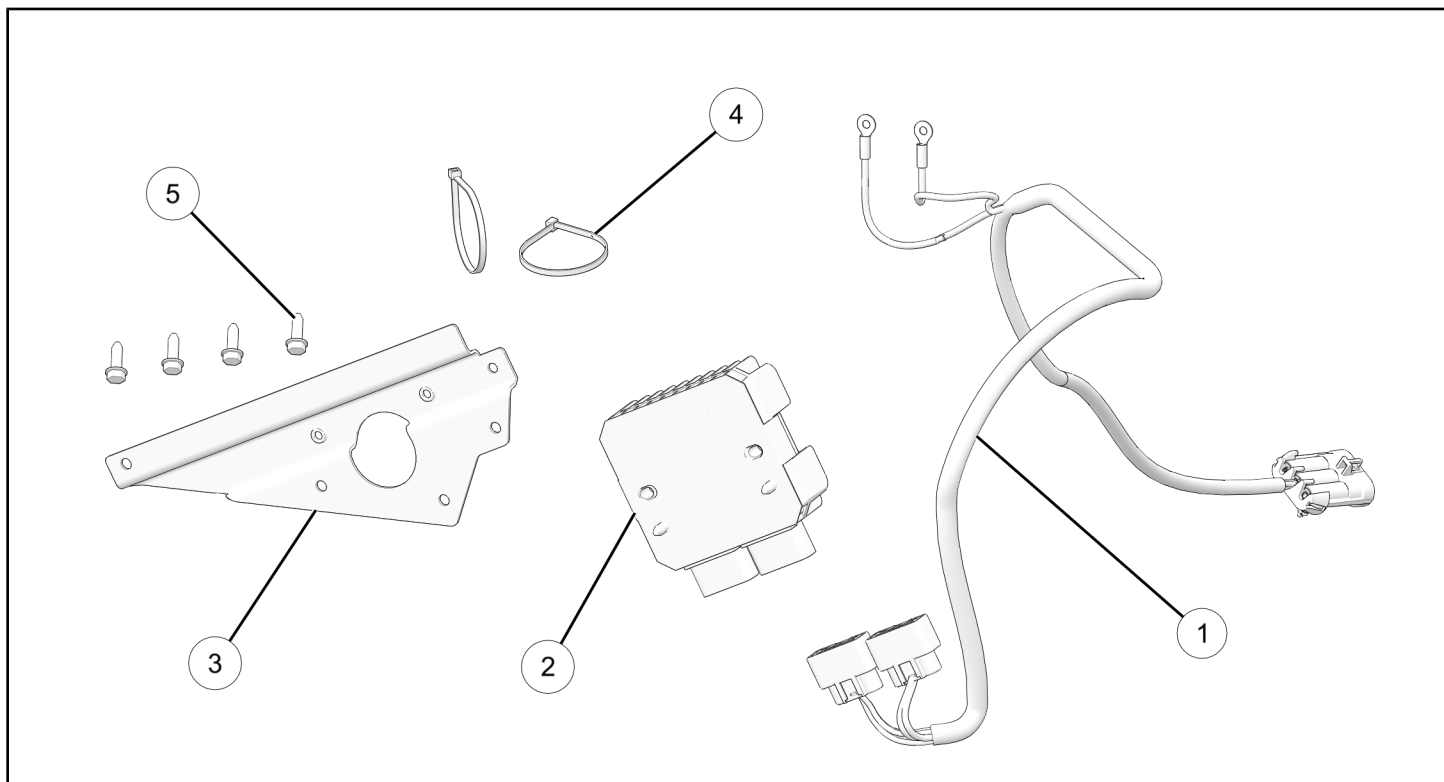
BEFORE YOU BEGIN

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

TOOLS REQUIRED

- Drill
- Drill Bit: 7/32"
- Torx Driver: T-25
- Ratchet
- 8 mm Socket
- 3/8" Socket
- Flat-Blade Screwdriver
- Combination Wrench: 3/8"
- Multi-Function Pliers
- Diagonal Pliers / Side Cutter Pliers

KIT CONTENTS



MODEL YEAR	MODELS	KIT
2015-2018	Sportsman 450 / 570 1-Up Models	2208110
	Sportsman 450 / 570 Touring Models	2208111

Kit 2208110

REF	QTY	PART DESCRIPTION	PART NUMBER
①	1	Jumper Harness	2414818
②	1	Regulator	4016868
③	1	Regulator Bracket	5267451-329
④	2	Panduit Strap	7080138
⑤	4	Screw - 1/4-20X0.75	7512232
—	1	Kit Instructions	9929953

Kit 2208111

REF	QTY	PART DESCRIPTION	PART NUMBER
①	1	Jumper Harness	2414819
②	1	Regulator	4016868
③	1	Regulator Bracket	5267451-329
④	2	Panduit Strap	7080138
⑤	4	Screw - 1/4-20X0.75	7512232
—	1	Kit Instructions	9929953

IMPORTANT

Your Voltage Regulator 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.

ASSEMBLY TIME

1.2 hours (72 minutes)

NOTE

Additional time may be required for optional steps, or to accommodate other installed accessories.

KIT INSTRUCTIONS

The voltage regulator is located in the left front wheel well, in front of the left front tire.

NOTICE

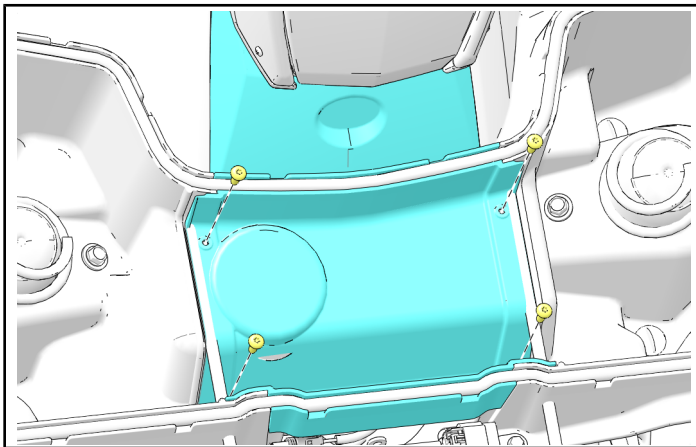
If the voltage regulator overheats, the unit will turn itself off to cool down. The unit will turn on again after it has cooled down. If it turns off, verify the cooling fins are clean, free from debris, and that adequate airflow is present.

CAUTION

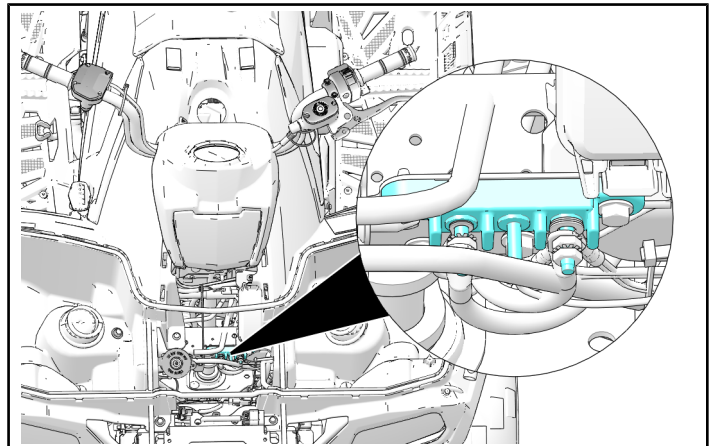
When removing or reinstalling the battery, always disconnect the negative (-) (black) cable first and reinstall the negative (-) (black) cable last!

REMOVAL INSTRUCTIONS

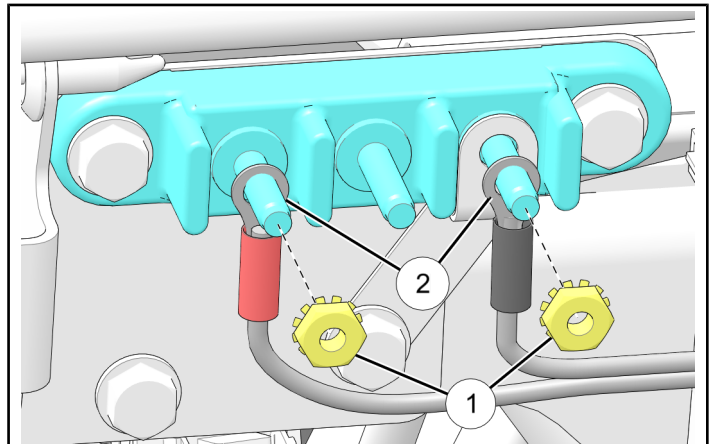
1. Unlatch the two handles on the front rack and open.
2. Remove the battery cover and battery hold-down strap.
3. Disconnect the negative (-) (black) battery cable from the battery.
4. Loosen the four screws retaining the front center cover to the vehicle.



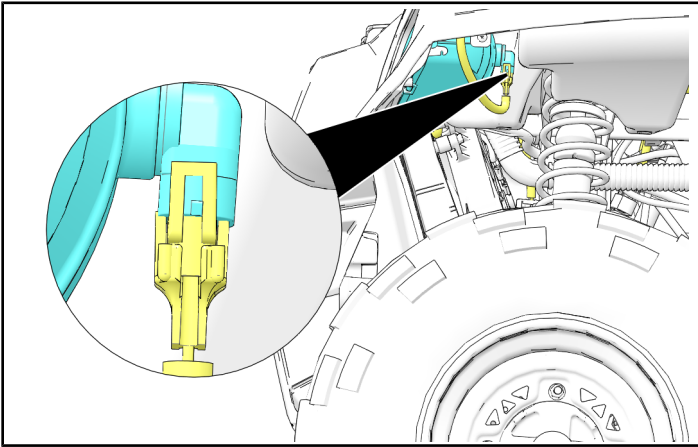
5. Remove the front center cover and locate the terminal block.



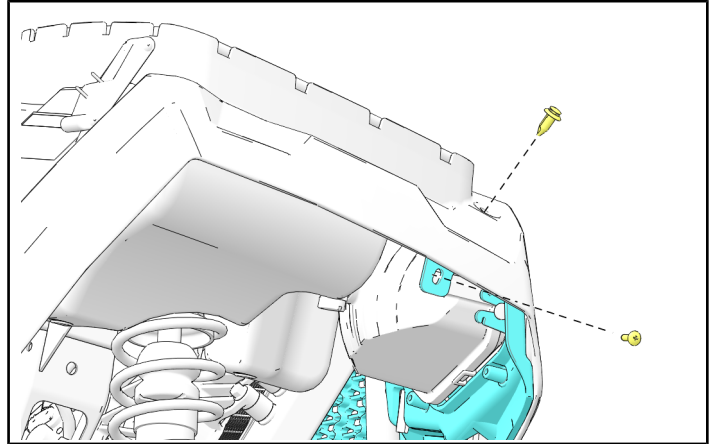
6. Remove nuts ① and disconnect the regulator harness connections ② from the terminal block.



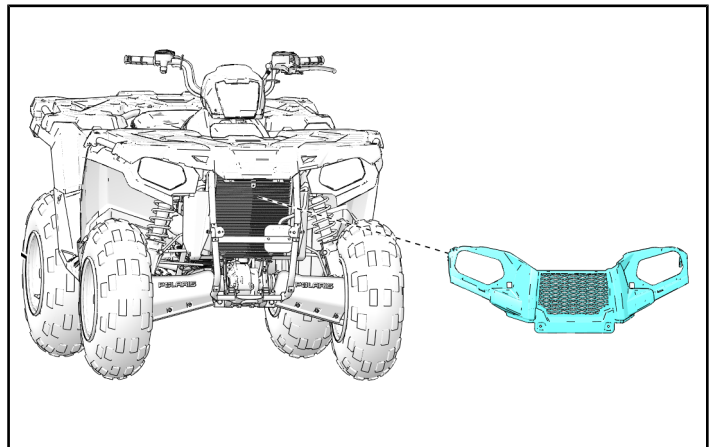
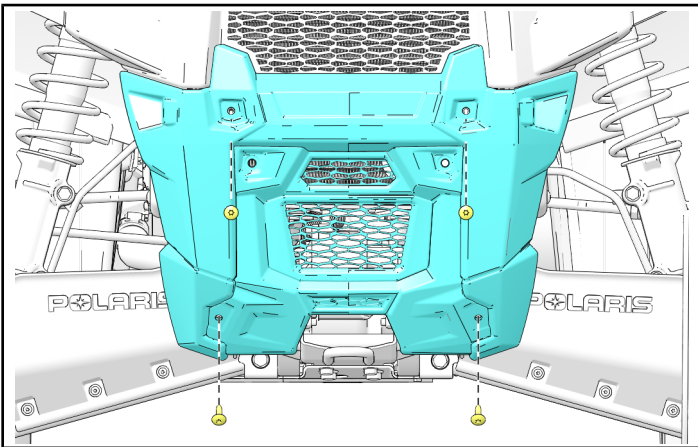
7. Disconnect the main harness from the front headlights.



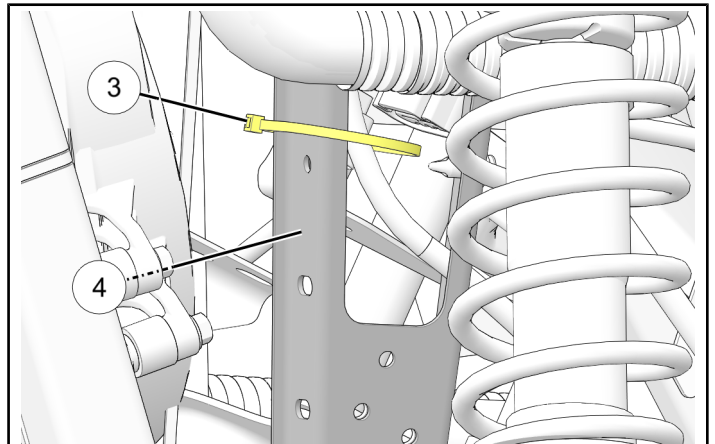
9. Loosen the four screws (two on each side) retaining the front bumper fascia to the vehicle and remove.



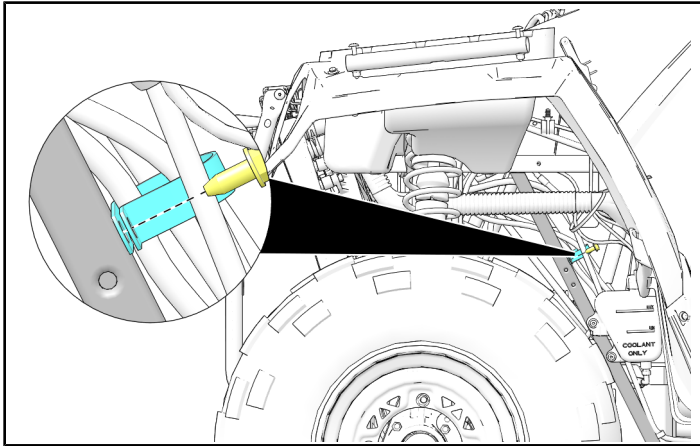
8. Loosen the four screws retaining the front lower cover to the vehicle and remove.



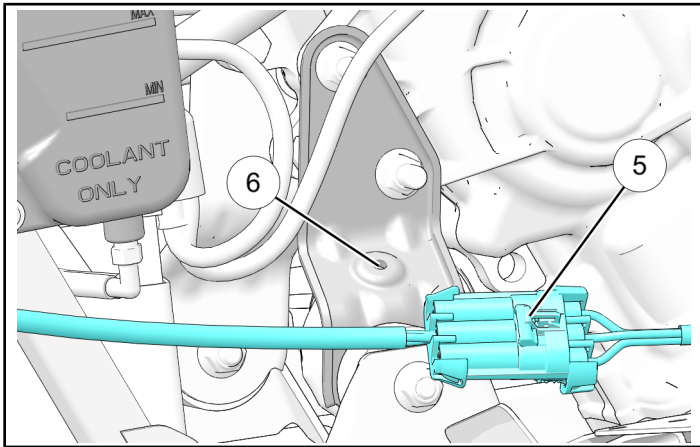
10. Take note of the proper location for the panduit strap ③ and remove it from the front left-hand bracket support ④.



- Loosen the screw retaining the hose clamp to the front left-hand frame tube and remove. Retain the hose clamp and screw.



- Using the stator connector push pin (5), unfasten the stator connector from the motor mount hole (6). Unplug the stator connector from the regulator harness connector.



- Loosen the two bolts retaining the regulator to the back of the bumper mount and remove. Retain the bolts.

INSTALLATION INSTRUCTIONS

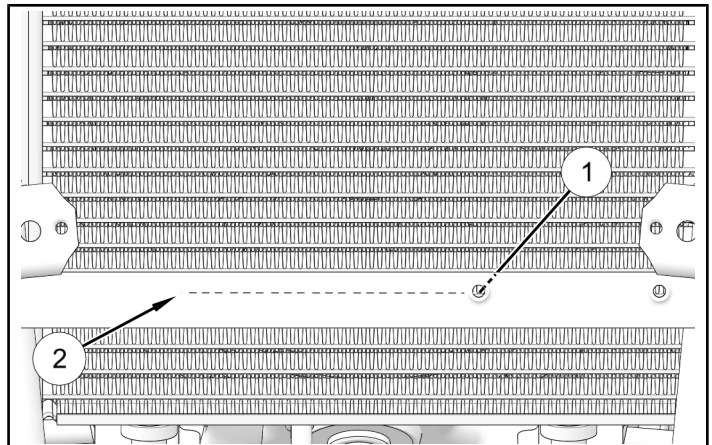
- On the front of the bumper mount, measure 5-1/8" to the left of the center inboard regulator mounting hole (1) and 9mm down from the top of the bumper mount (2). Use a 7/32" drill bit to drill a hole into the front of the bumper mount.

NOTICE

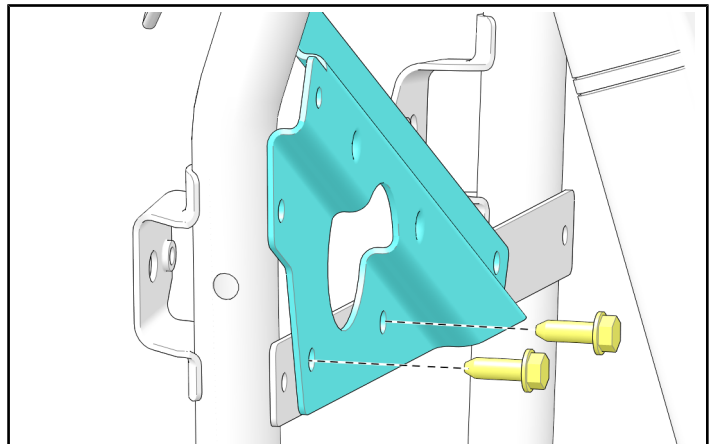
The new regulator bracket will be mounted to the back of the bumper mount, however, space is limited due to the radiator.

CAUTION

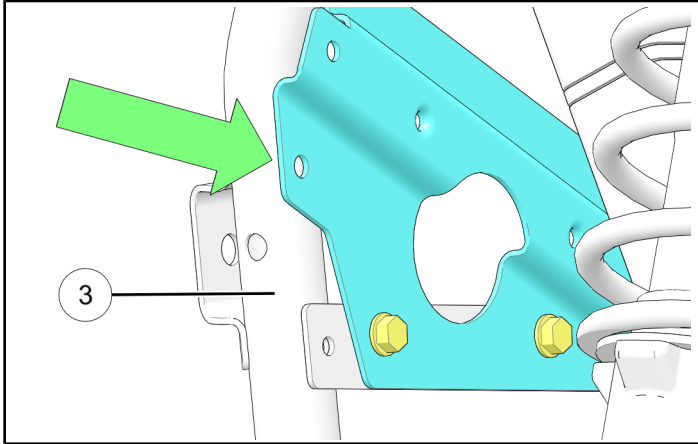
Make sure the drill does not contact the radiator or a leak could occur.



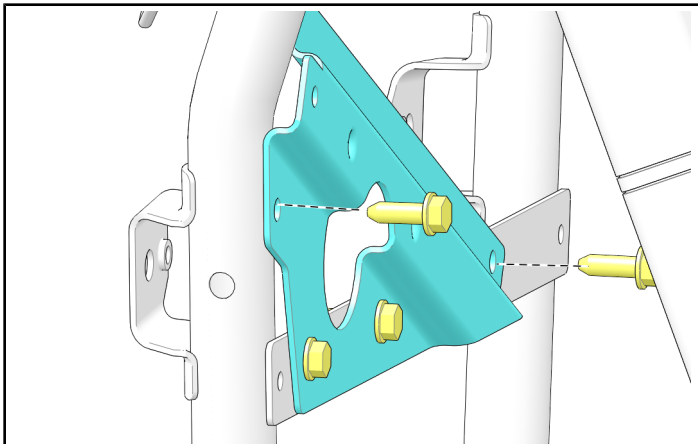
- Align the new regulator bracket onto the back of the bumper mount. Install two of the four regulator bracket to chassis bolts and tighten by hand.



- Use the regulator bracket as a template and drill a hole into the back of the front left-hand bumper tube ③ using a 7/32" drill bit.



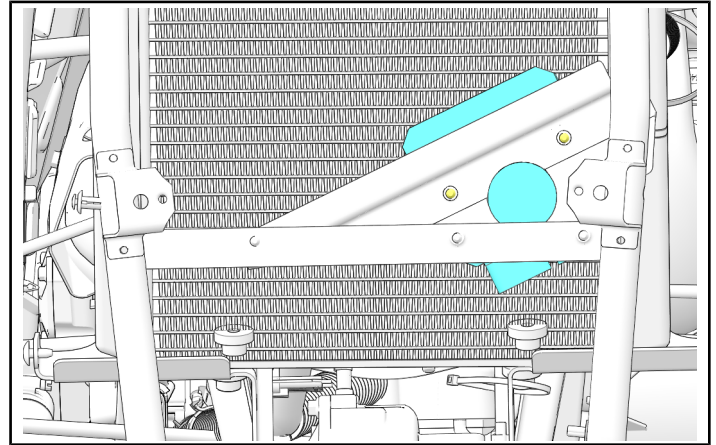
- Install the remaining two regulator bracket to chassis bolts. Torque all four bolts to specification.



TORQUE

**Regulator Bracket to Chassis Bolts:
8 ft-lbs (11 Nm)**

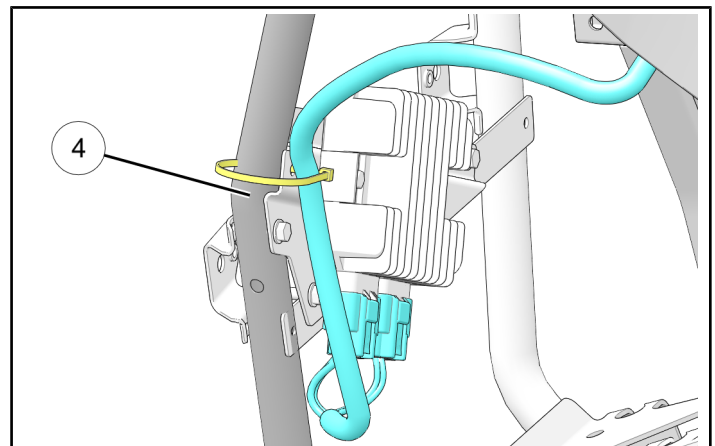
- With the jumper harness connectors facing downward, install the new regulator onto the back of the bracket using the two bolts that were removed during the disassembly. Torque bolts to specification.



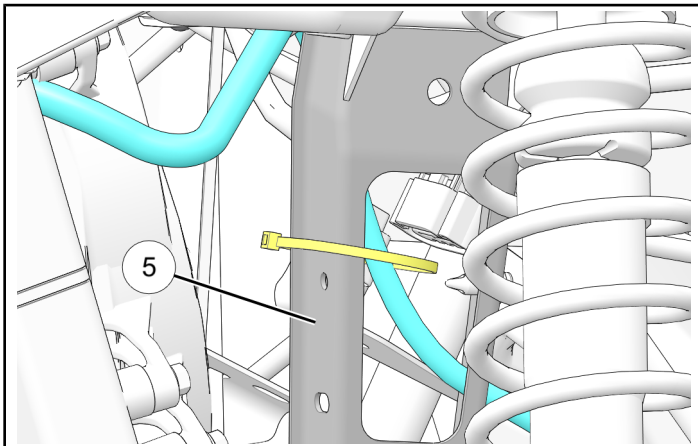
TORQUE

**Regulator to Bracket Bolts:
8 ft-lbs (11 Nm)**

- Plug two jumper harness connectors to the bottom of the regulator.
- Insert a panduit strap through the spare hole in the bracket and attach jumper harness to the front left-hand bumper tube ④. Tighten and trim excess strap.



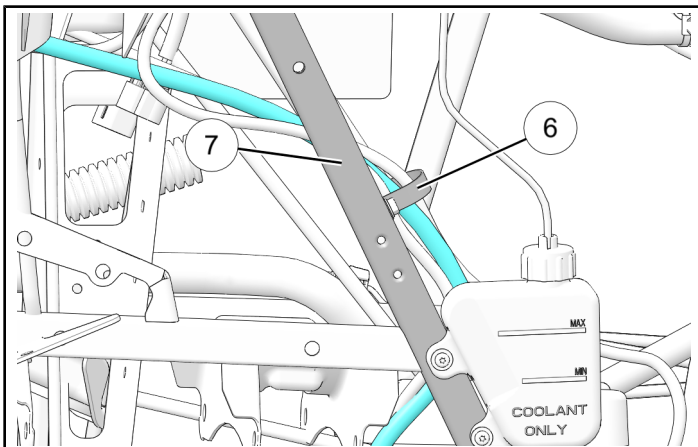
8. Route the jumper harness behind the front left-hand bracket support ⑤. Install panduit strap in the same location it was removed during the disassembly. Tighten and trim excess strap.



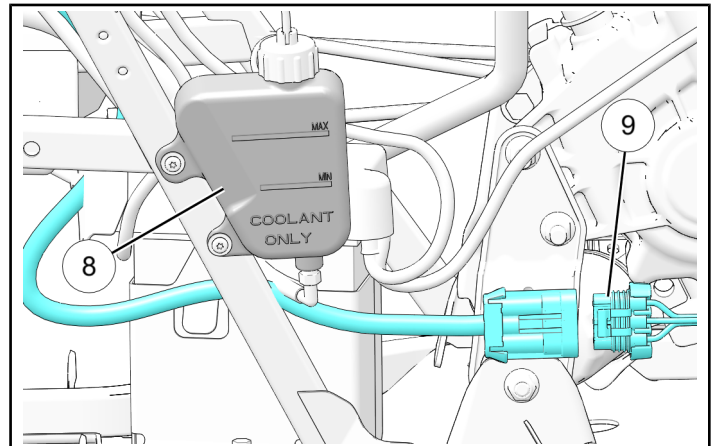
9. Route the jumper harness through the hose clamp ⑥ that was removed during the disassembly and reinstall the screw retaining the hose clamp to the front left-hand frame tube ⑦.

NOTICE

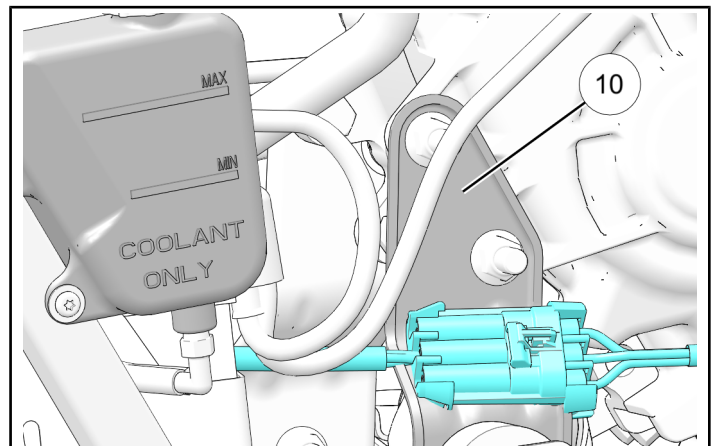
Ensure the brake line, battery cable, harness, and clear coolant overflow bottle hose are retained properly by the clamp.



10. Route jumper harness behind coolant overflow bottle ⑧ and plug the stator connector ⑨ into the jumper harness connector.



11. Using the stator connector push pin, fasten the stator connector to the motor mount ⑩ hole it was removed from during disassembly.



12. Connect the jumper harness connections to the terminal block and install nuts. Torque nuts to specification.

TORQUE

Terminal Block Nuts:
30-in lbs (3 Nm)

13. Reinstall the four screws retaining the front center cover to the vehicle. Torque screws until the front center cover is flush with the box.
14. Reinstall the four screws retaining the front bumper fascia to the vehicle. Torque screws until fully seated.
15. Reconnect the front headlights to the main harness.
16. Reinstall the four screws retaining the front lower cover to the vehicle. Torque screws until fully seated.

17. Reconnect the negative (-) (black) battery cable to the battery and torque to specification.

TORQUE

Battery Terminals: 5 ft-lbs (7 Nm)
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18. Reinstall battery cover and battery hold-down strap.
19. Start the vehicle and check the charging system for proper voltage. The vehicle should be charging at 13.5 - 15 DC volts on a fully charged battery.

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 a mobile device by scanning the QR code or by clicking [HERE](#) if viewing this document electronically.

