



Heated Hand Grips and Throttle Combo (Kit P/N 715 001 849)

The following symbols may be used in this document:

⚠ WARNING

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

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

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

⚠ WARNING

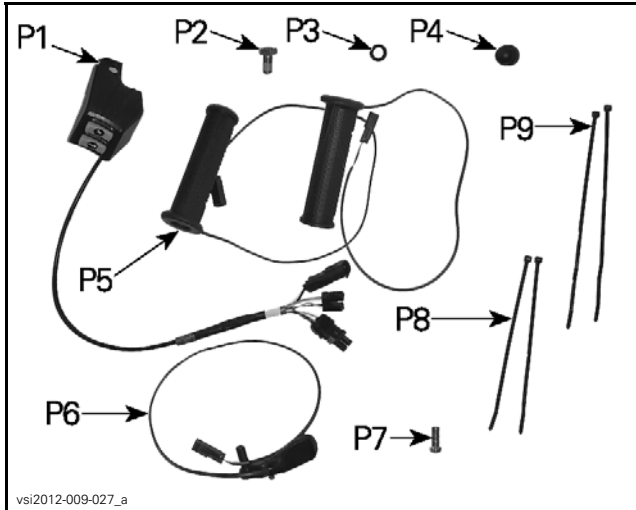
- For safety reasons, this kit must be installed by an authorized BRP dealer.
- This kit is designed for specific applicable models only (authorized BRP dealers will confirm model(s)). It is not recommended for units other than the one (those) for which it was sold.
- This instruction sheet **MUST**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

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

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

Installation time is approximately **1** hour.

PARTS TO BE INSTALLED



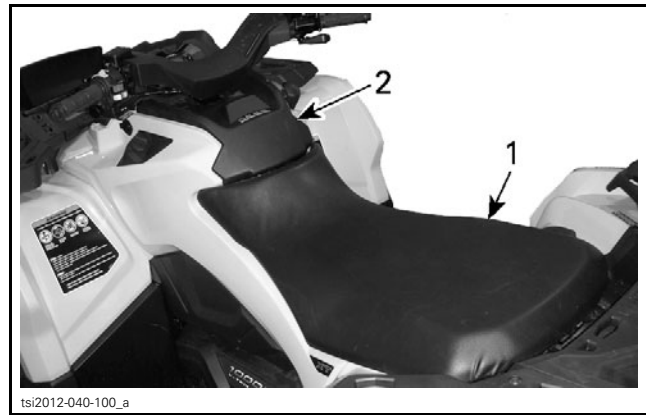
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ITEM	DESCRIPTION	P/N	QTY
P1	Heating control module	710 002 473	1
P2	M10 X20 Self-adhesive hexagonal screw	250 000 057	1
P3	Washer	503 192 496	1
P4	Rubber cap	269 501 494	1
P5	Heated grips	710 003 331	2
P6	Heated throttle lever	710 002 912	1
P7	Throttle lever retaining screw	715 000 210	1
P8	Locking tie	414 115 200	2
P9	Locking tie 368 mm (14.5 in)	293 750 008	2

INSTRUCTIONS

Vehicle Preparation Outlander

1. Remove seat and console.



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TYPICAL

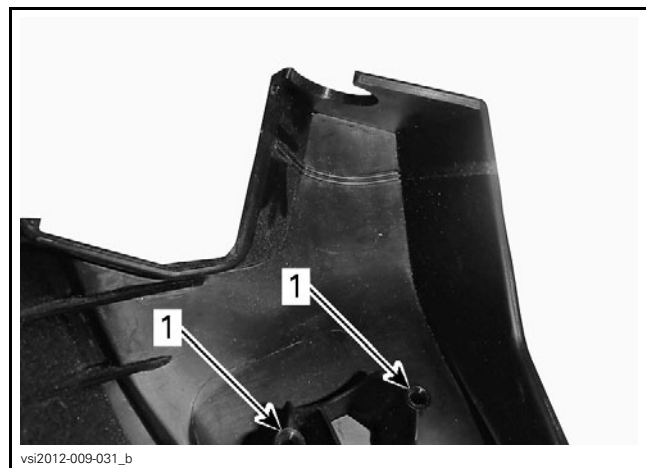
1. Seat
2. Console

For Outlander Models

Pull on plastic handlebar cover to remove it from the handlebar.

For Outlander XT Models

Unscrew both plastic U-clamps that attach handlebar cover to the handlebar.



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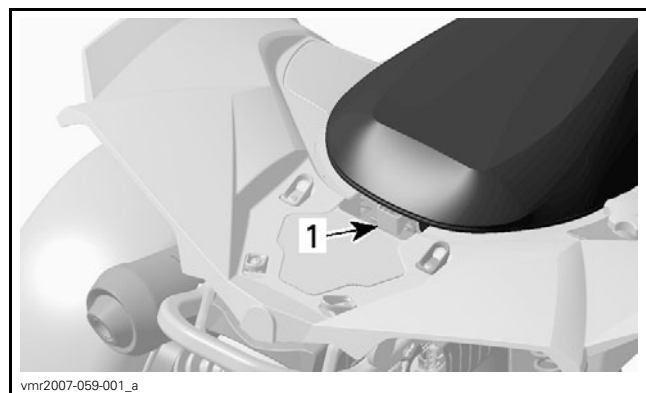
TYPICAL

1. U-clamp retaining screw locations

2. Ensure ignition key is set to OFF.

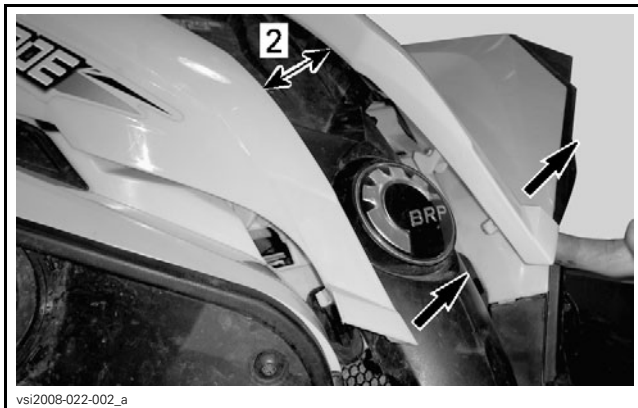
Vehicle Preparation Renegade

1. Remove seat from vehicle using rear latch.

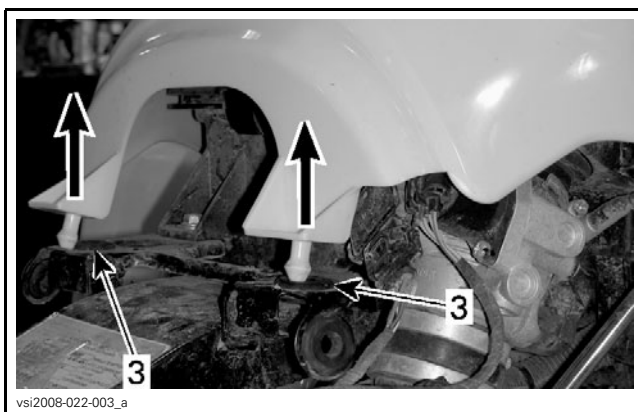


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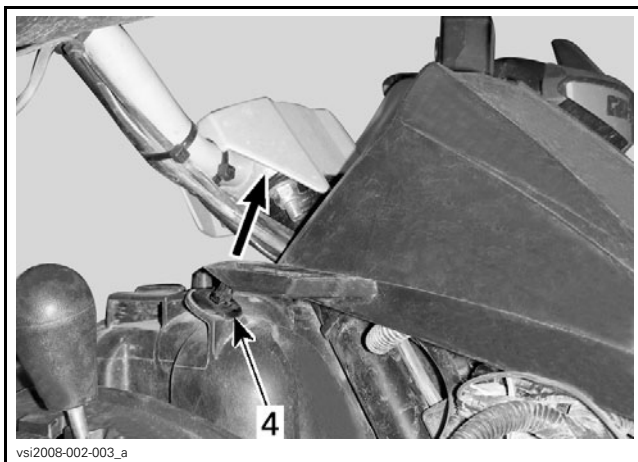
2. Lift front part of the central panel.



3. Pull off plastic studs from the grommets.



4. Remove central panel from vehicle.



5. Pull off service cover plastic studs from the grommets.



6. Ensure ignition key is set to OFF.

Installation

Heated Grips Installation

1. Remove and keep handlebar grip caps



RH HANDLEBAR CAP BEING REMOVED

2. Carefully cut and remove handlebar grips.



HAND GRIPS BEING CUT

NOTICE Ensure not to cut all the way through as it will scratch the surface of the handlebar and make the insertion of the new grip more difficult.



TEAR AND PULL ON PREVIOUSLY INSTALLED HAND GRIPS

- Use a sharp object to remove any adhesive or residues from previously installed grips before installing new ones. When done, use isopropyl alcohol to finish.

⚠ WARNING

- Ensure to remove sharp edge and glue before proceeding with the heated grip installation.
- Handlebar and inside of heating grip must be clean and dry before installing heating grip to ensure proper adhesion.



RESIDUE CLEANING ON HANDLEBAR

- Put a pencil mark at 117.5 mm (4-5/8 in) from the end on each side of handlebar before installing the grips. These marks will indicate how far the grips need to be pushed in.
- Apply WD-40[†] generously on the inside of heated grip [P5].

NOTE: Plenty of lubricant is used to soften the inner layer of the grip.

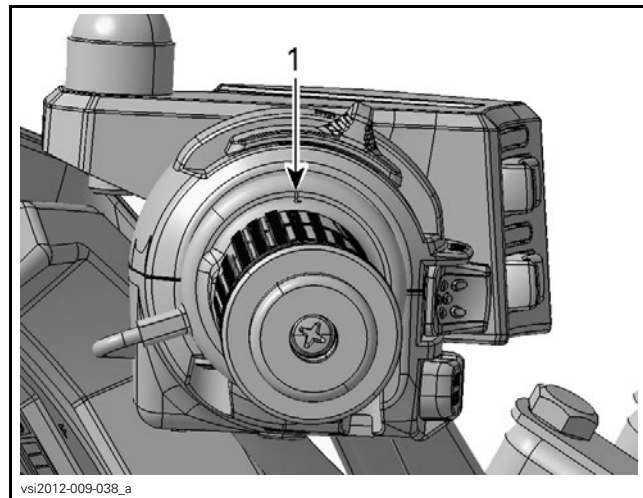
NOTICE Do not use other lubricants than recommended one. Other lubricants can react with grips and cause malfunction of heated elements.

NOTICE Make sure lubricant does not get on body sections, wipe any spillage immediately.



HEATED GRIPS LUBRICATION

- Wait 2 minutes and apply more WD-40[†] on the inside of heated grips.
- Wait 2 more minutes and apply more WD-40[†] on the inside of heated grips and on the outside of handlebar.
- IMMEDIATELY position the left grip so the L for left side (or R for right side) is perpendicular to axis handlebar. Align the grip and push it onto the handlebar.



1. Letter indication

NOTE: To ease grip installation, twist and turn as you push on it.

NOTICE If the grip cannot be completely fitted onto the handlebar within 10 seconds of starting the push, remove grip immediately and start over.

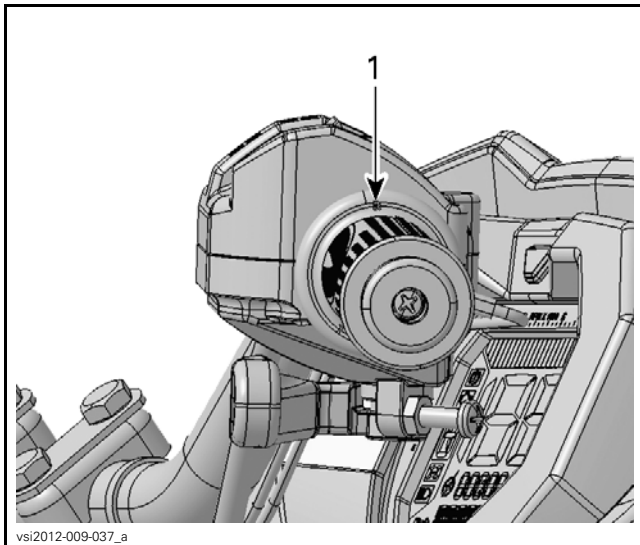
WD-40[®] is a trademark of the WD-40 Company.

NOTE: The grips are quite hard to push over so be prepared to apply a considerable amount of force to install them. It is recommended to turn the handlebars completely to the left or right and to firmly secure them so that they do not move when the grips are installed. The resistance increases the further the grips are pushed in so be prepared to push and twist the grips to finish the installation.

NOTICE Do not use a tool or hammer to install the grips as this will damage the heater.

NOTE: If the grip gets stuck halfway through, simply heat the grip. Refer to Heating control module installation step 7 to 10 for instructions. You will need to connect the red wire of the grip to the red wire of the heating control module. Then, plug the 12 V power connector to the one on the vehicle. Once wires are connected, put the key in ON position, use controls and set 4th heating level.

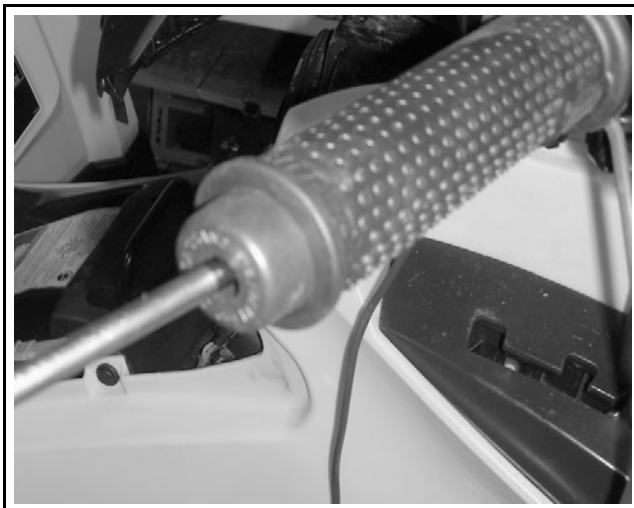
9. Position the right grip so the R is perpendicular to axis handlebar. Repeat steps 4 to 7 for the right grip.



1. Letter indication

10. Route heated grips wires along handlebar and down along steering column.

11. Install previously removed handlebar cap and torque to specification.

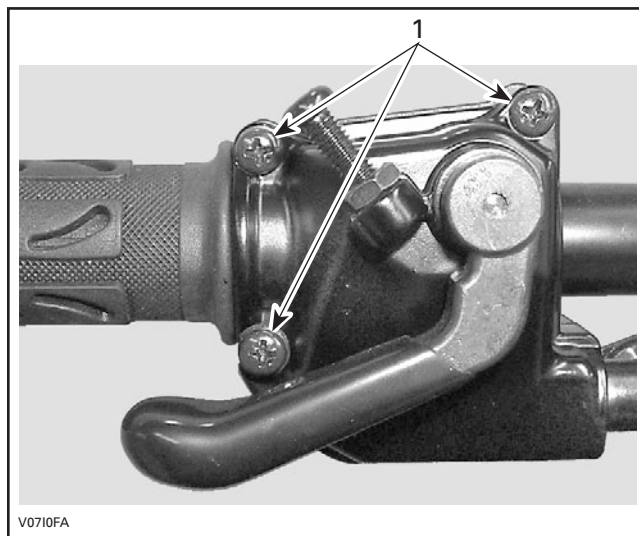


HANDLEBAR CAP REINSTALLATION

TIGHTENING TORQUE	
Handlebar cap retaining screw	.4 N•m ± .1 N•m (4 lbf•in ± 1 lbf•in)

Thumb Warmer Installation

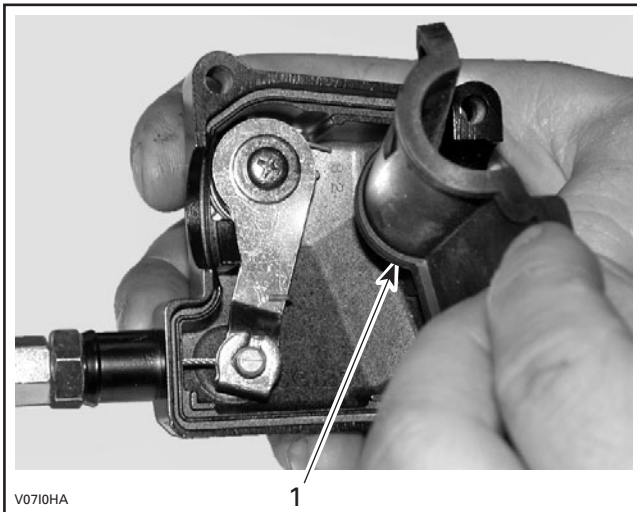
1. Remove and keep the 3 retaining screws under the throttle lever.



1. Retaining screws located under throttle lever

2. Separate housing.

3. Remove and keep inner housing protector.



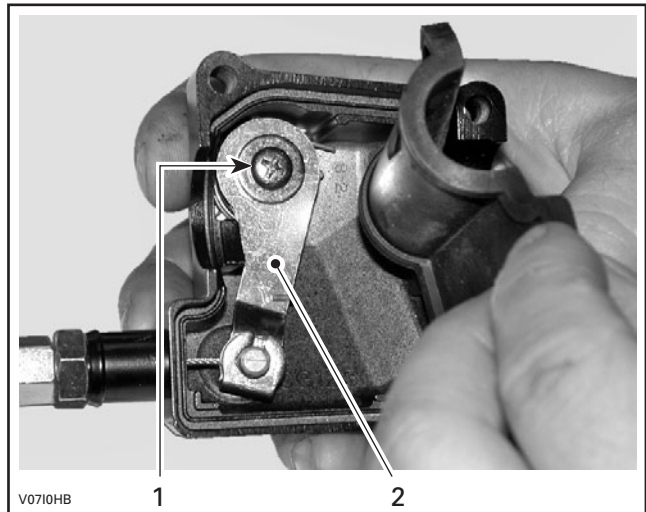
1. Inner housing protector

4. Slide cable in clip slot and remove end of cable from clip.



CABLE REMOVAL

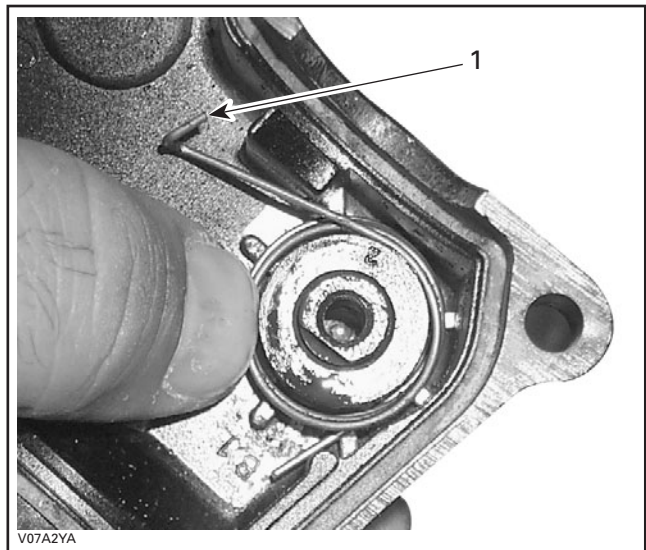
5. Remove and discard screw retaining throttle cable clip. Keep washer and spring.



1. Retaining screw
2. Throttle cable clip

NOTE: Take note of spring and washers location.
6. Remove and discard throttle lever from housing.

NOTE: Be careful to keep washer on throttle lever.
7. Position existing washer on new heated throttle lever [P6].
8. Insert throttle lever into housing.
9. Install previously removed spring in same position as it was before removal.



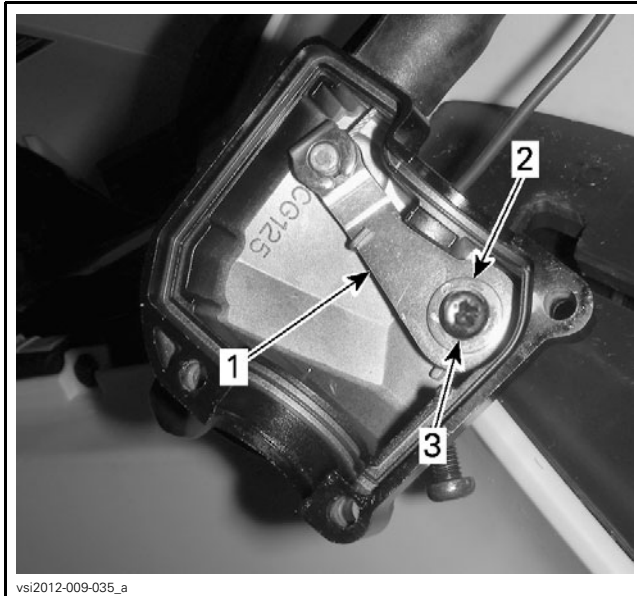
1. Previously removed spring

10. Apply LOCTITE 271 (RED) (P/N 293 800 005)† on screw threads.

Loctite® is a trademark of Loctite Corporation

11. Install and secure throttle cable clip on throttle lever using throttle lever retaining screw [P7] and the previously removed washer. Torque to specification.

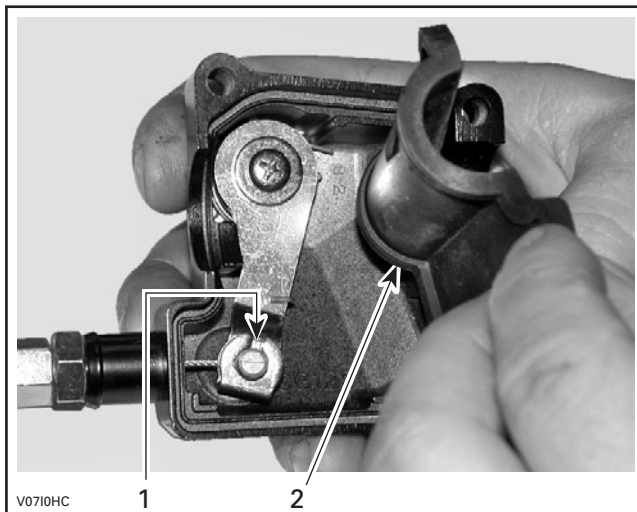
⚠ CAUTION Make sure spring is not squeezed between throttle lever and housing.



- 1. Throttle cable clip
- 2. Previously removed washer
- 3. Retaining screw [P7]

TIGHTENING TORQUE	
Throttle Lever Retaining Screw	3.5 N•m ± .5 N•m (31 lbf•in ± 4 lbf•in)

12. Install end of throttle cable into cable clip slot.

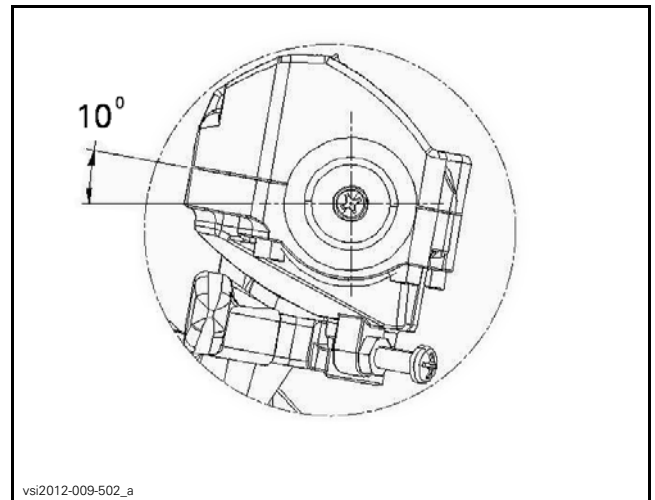


- 1. Throttle clip slot
- 2. Inner housing protector

13. Verify that throttle lever moves freely.

14. Install previously removed inner protector inside housing.

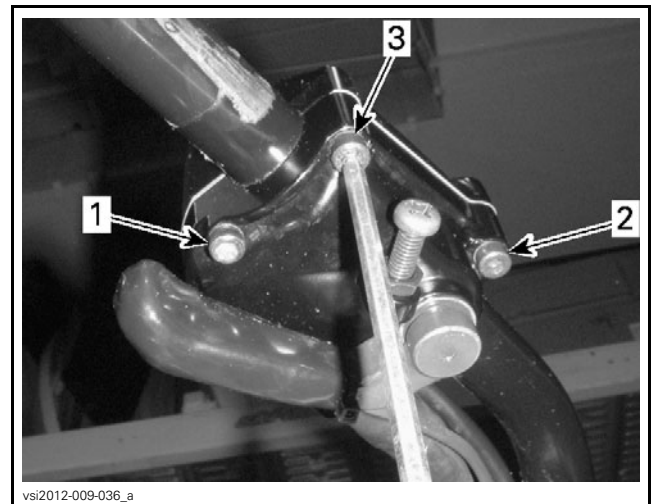
15. Position throttle lever assembly approximately 10° from horizontal of vehicle for thumb comfort.



THROTTLE LEVER ASSEMBLY POSITIONED 10° FORWARD FROM HORIZONTAL OF VEHICLE

16. Install previously removed retaining screws, lower housing to upper housing. Do not torque yet.

17. Torque to specification in the following sequence.



- 1. First retaining screw to be torqued
- 2. Second retaining screw to be torqued
- 3. Third retaining screw to be torqued

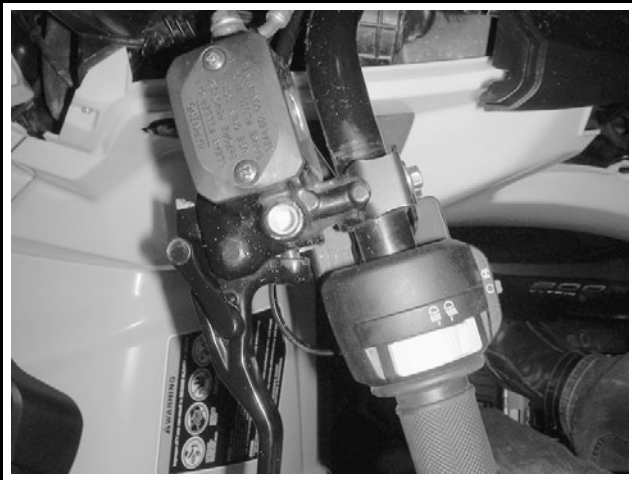
⚠ WARNING
Make sure throttle lever operates freely and returns to its original position once released.

TIGHTENING TORQUE	
Housing Retaining Screws	4.8 N•m ± .7 N•m (42 lbf•in ± 6 lbf•in)

18. Route heated throttle lever wire along handlebar and down along steering column.

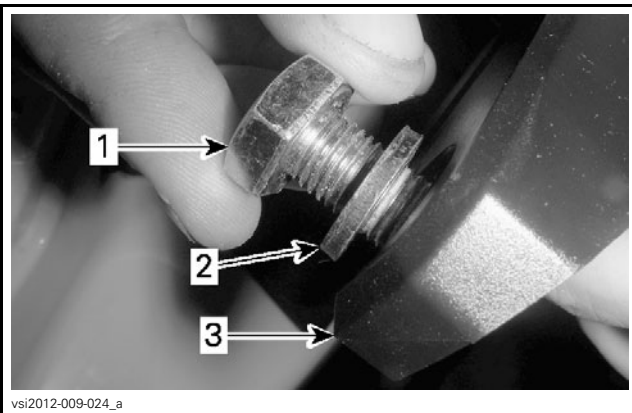
Heating Control Module Installation

1. Ensure screw threads are clean before proceeding.



SWITCH INSTALLATION LOCATION

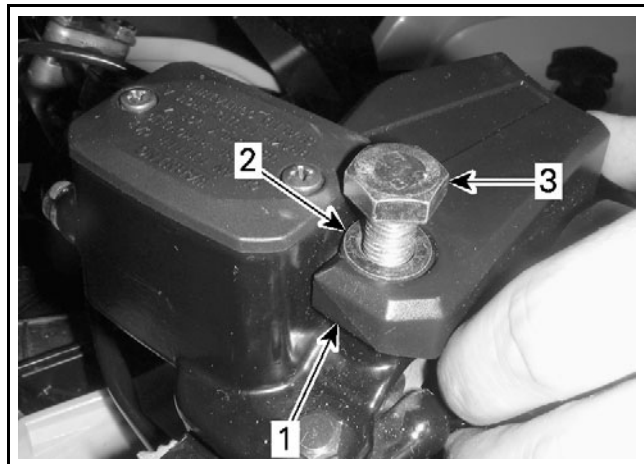
2. Insert self adhesive retaining screw [P2] and washer [P3] in heated grips switch [P1].



- 1. Self adhesive retaining screw [P2]
- 2. Washer [P3]
- 3. Heating control module [P1]

3. Position assembly onto handlebar and gently tighten retaining screw manually to a snug fit.

NOTICE Do not over tighten as it may cause the heating control module to crack.



INSTALLATION NEAR THE BRAKE FLUID RESERVOIR

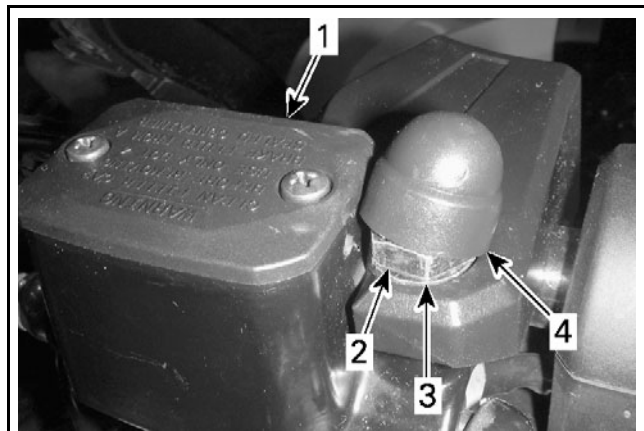
- 1. Heating control module [P1]
- 2. Washer [P3]
- 3. Self adhesive retaining screw [P2]

NOTE: To allow for rubber cap installation, ensure flat section of screw head is parallel to the brake fluid reservoir.



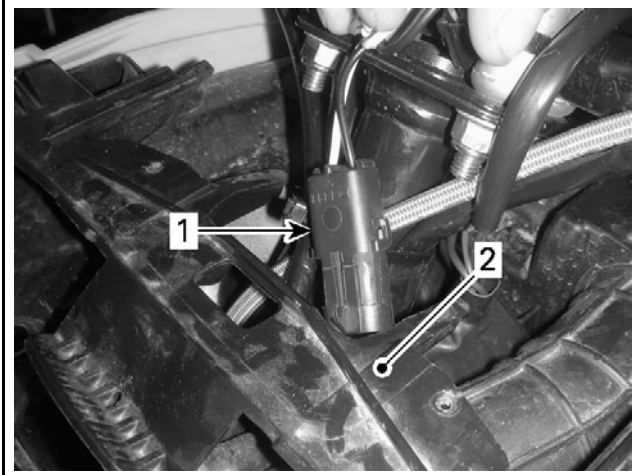
ALIGNING FLAT SURFACE OF RETAINING SCREW WITH SIDE OF BRAKE FLUID RESERVOIR

4. Install rubber cap [P4] onto retaining screw.

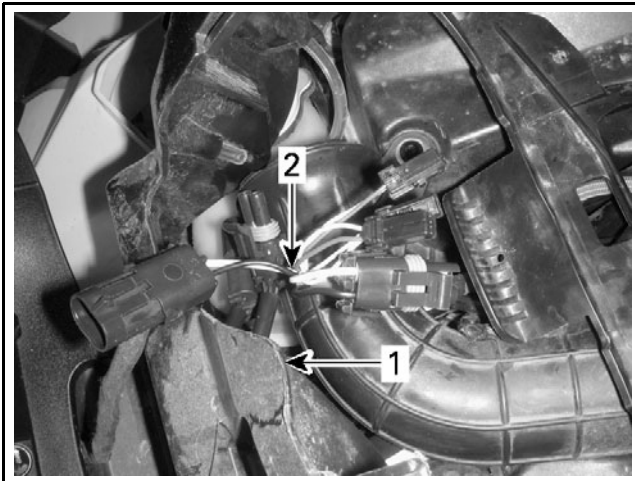


- 1. Brake fluid reservoir
- 2. Self adhesive retaining screw [P2]
- 3. Washer [P3]
- 4. Rubber cap [P4]

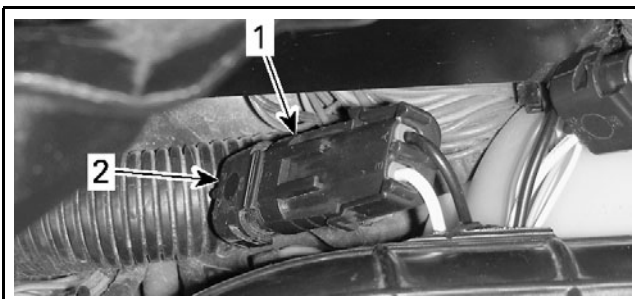
5. Route wiring harness along handlebar and down steering column.
6. Route heated grip switch harness under metal support and position to allow for connectors connections.
 - 6.1 Slide 12V connector under plastic support.



- 6.2 Slide other connectors in afterwards and pull harness out at air intake.

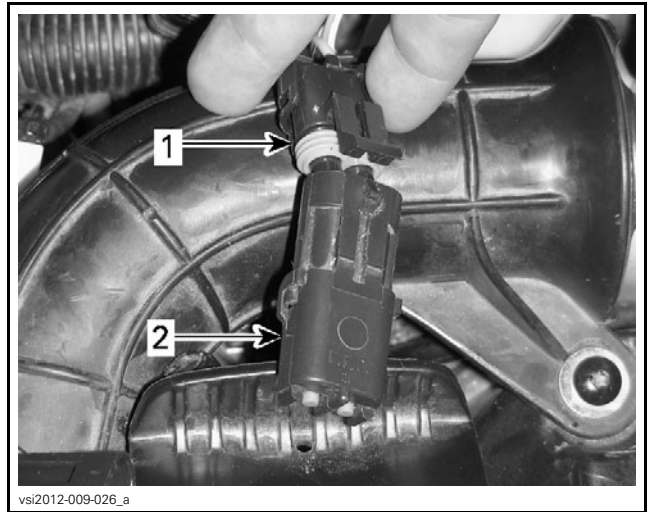


7. Connect 12V connector from harness onto vehicle 12V connector.



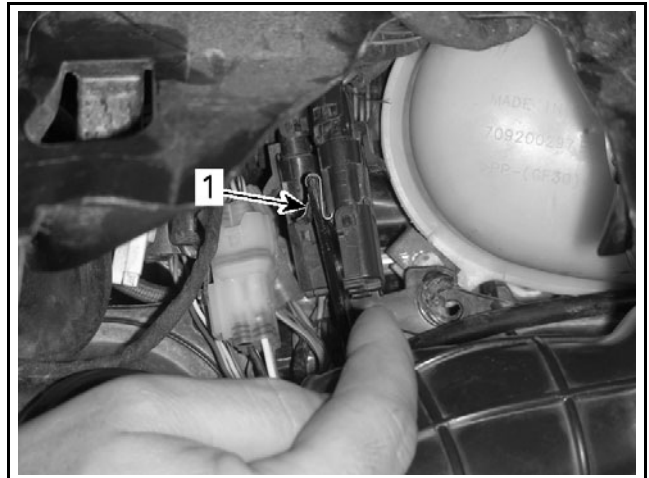
1. Heated grips 12 volt connector
2. Vehicle 12 volt connector

8. Connect connector with green marking to plastic cap.



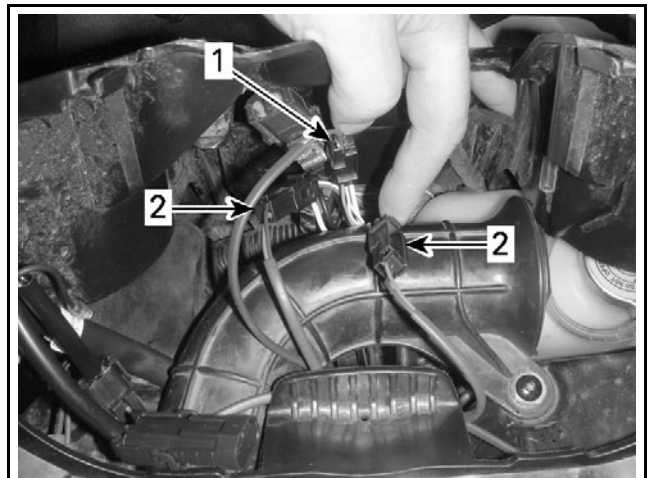
1. Accessory connector with green marking
2. Plastic cap

9. Clip connector onto vehicle.



- CONNECTOR CLIPPED ONTO VEHICLE**
1. Metal clip

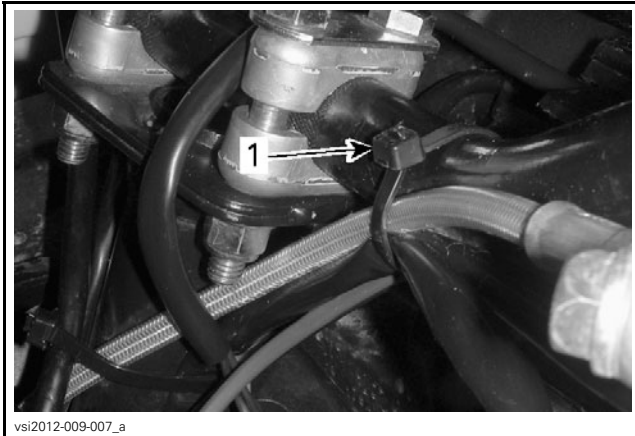
10. Connect rectangular connectors from heated grips and heated throttle lever to heated grips switch harness rectangular connectors.



1. Heated throttle lever connector (orange)
2. Heated grip connector (red)

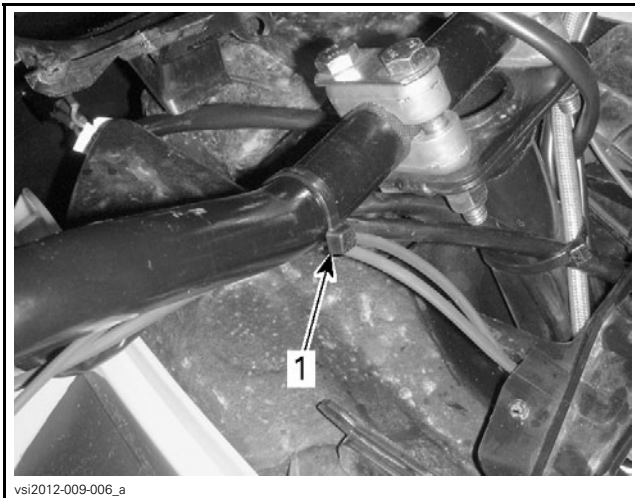
NOTE: Ensure to match wiring colors for connection.

11. Secure wires to handlebar using locking tie [P8].



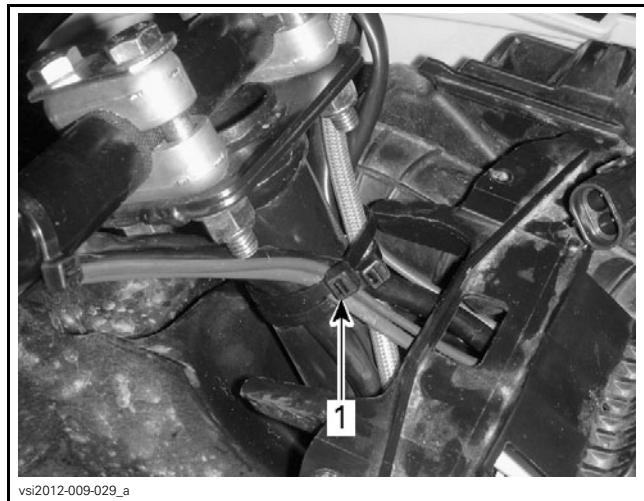
LH SIDE SHOWN
1. Locking tie [P8]

12. Secure wires to handlebar using locking tie [P8].



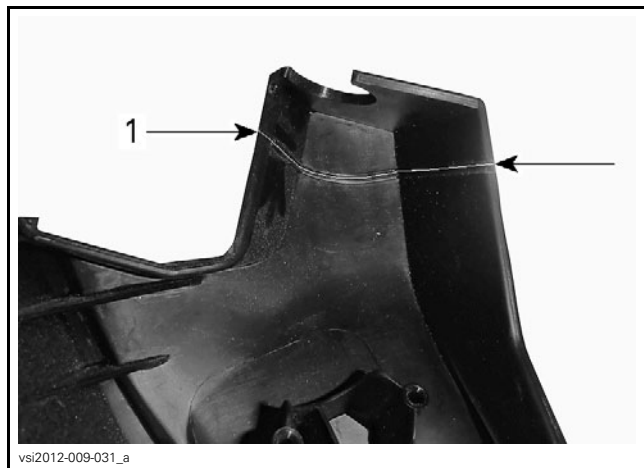
RH SIDE SHOWN
1. Locking tie [P8]

13. Secures in place along steering column using 2 locking ties [P9].



1. Locking tie [P9]

14. On the LH side, cut part of the handlebar cover so as to allow room for the routing of the wires down the steering column.



1. Zone to cut off

Reinstallation

The handlebar cover installation is the reverse of removal procedure. However pay attention to the following:

Torque retaining screws to specification.

TIGHTENING TORQUE	
U-Clamp Retaining Screws	5 N•m ± .5 N•m (44 lbf•in ± 4 lbf•in)

Reinstall seat and console. Installation is the reverse of removal.

⚠ WARNING

- Make sure that handlebar turns freely in both directions.
- Make sure that all wires/cables are clear from contact with any moving parts or sharp edges.

Operating Instructions

Press the desired button to select heating intensity.

Each press of the button increases heating level by 1.

Each level corresponds to 25% heating intensity.

LEVEL	HEATING INTENSITY
1	25%
2	50%
3	75%
4	100%

Press a fifth time on the button to reset heating level to 0.

When vehicle is shut down, the system will keep the latest setting in memory. After the vehicle is started again, press once on either button to go back to the latest setting.

To shut down both heating devices, push the upper button on the heating control module for 3 seconds.

To restart the heating devices, press either buttons on the heating control module.

NOTE: The heating devices will be restarted at the last setting.

To fade out the heating devices indicator light, push the lower button for 3 seconds. Pressing on the same button for 3 seconds will return the indicator light to its standard setting.