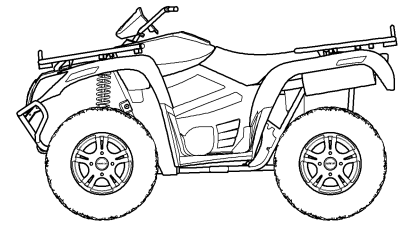


Arctic Cat® ATV

Installation Instructions

Hand/Thumb Warmer Kit (p/n 0436-352)



■ **NOTE:** Read these installation instructions thoroughly before beginning the installation process. Retain these Installation Instructions for future reference.

Kit includes:

p/n	QTY	DESCRIPTION
0441-492	2	Hand Warmer Assembly
0441-493	1	Thumb Warmer Assembly
0441-494	1	Wiring Harness
0441-495	1	Switch (HI/LO)
0441-496	1	Connector
0441-497	1	Power Wire w/Terminal (54 in.)
0441-498	1	Shrink Tube (3/4 x 1 1/2 in.)
0441-499	1	RTV Silicone Adhesive
0441-500	1	Insulation (Thumb Warmer)
0441-501	8	Cable Tie (5 in.)
0405-039	2	Handlebar Grip
0623-361	1	Self-Tapping Screw (10-24 x 1/2 in.)
8060-428	1	Rivet
0453-164	1	Instruction

■ **NOTE:** Grip-It Glue (p/n 0441-510) is not included in the kit.

⚠ WARNING

Use only in a well-vented area. Avoid prolonged breathing of vapor. Avoid eye and skin contact. Keep container closed when not in use.

⚠ WARNING

Allow 24 hours for the adhesive to set before operating the ATV. Failure to allow proper drying can cause the grips to loosen resulting in the loss of control of the ATV.

Installing Warmer Elements

■ **NOTE:** On newer models, loosen and remove the handlebar end caps from both ends of the handlebar; then remove an appropriate amount of rubber from the outside end of each new Grip. Once the grips are positioned, install the caps. Tighten securely. See Fig. 1.

Fig. 1



ATV-212

1. Using a sharp utility knife, cut the handlebar grips off the handlebar; then using a cleaning solvent, clean the existing adhesive from the handlebar.
2. Remove the adhesive backing from one of the hand warmer elements; then carefully position the element on either end of the handlebar making sure the element is centered on the front of the handlebar.
3. Apply Grip-It Glue (p/n 0441-510) to the bore of the new handlebar grip; then slide the grip into position on the handlebar. Remove any excess adhesive.

4. Repeat steps 2 and 3 for the remaining handlebar element and grip.
5. Using a sharp utility knife, remove the rubber covering from the throttle lever. Make sure the throttle lever is clean and dry; then remove the adhesive backing from the thumb warmer element and position the element on the backside (toward front of ATV) of the throttle lever.
6. Apply RTV Silicone Adhesive (p/n 0441-499) to the surface of the element; then place Insulation (p/n 0441-500) over the element. Apply RTV silicone adhesive to the edges of the element and insulation.
7. Slide Shrink Tube over the end of the throttle lever. Using a heat gun, heat the shrink tube until it shrinks to a uniform, tight fit.

CAUTION

Be careful to not overheat in one area. Move the heating source back and forth over the entire surface of the tube. Overheating in one area can split or burn the shrink tube.

■ **NOTE:** It is advisable to crimp the outside end of the shrink tube together with a pair of pliers while applying heat. This will ensure a smooth, formed fit at the end of the throttle lever.

Section 1 - Installing Toggle Switch and Wiring 2005 and newer Full-Sized ATV

■ **NOTE:** Installation of Toggle Switch and Wiring for 1996-2004 Full-Sized ATV models is on page 2 of this instruction.

■ **NOTE:** Remove the storage box cover, steering post cover, and access cover. Retain all mounting hardware.

1. Locate a desired mounting location for the toggle switch on the gauge pod. Making sure there is clearance behind the drilling area, drill a hole using a 1/2-in. drill bit. Temporarily insert the toggle switch into the mounting location. See Fig. 1 for the recommended mounting location.

Fig. 1



SNO-2145

3. Connect the hand warmer lead wires and the thumb warmer lead wire to the terminals on the black molded plugs. Using a cable tie, secure the molded plugs together.

■ **NOTE: The hand warmer and thumb warmer lead wires may be connected to any of the three molded plug terminals.**

4. Route the hand/thumb warmer harness assembly along the handlebar and downward through the existing wire form. Secure with cable ties as needed.

⚠ WARNING

Wire slack near the throttle must be neither excessive nor tight. Test the throttle lever to ensure that no binding occurs when the throttle is fully cycled. Binding of the throttle control could result in loss of control of the ATV.

5. Insert the orange/black accessory plug wire (near the steering post) into the slot in Connector; then cut the red power wire to the appropriate length and insert into the enclosed channel in the connector. Using a pair of pliers, tightly crimp the connector metal tab to secure the wires. Snap the connector tab into place. See Fig. 2.

Fig. 2

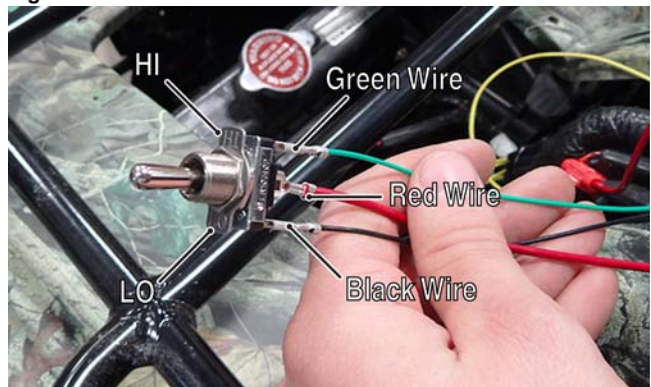


SNO-2144A

6. Place the HI/LO indicator tab over the switch making sure the HI indicator is positioned on the top. See Fig. 3.

7. Connect the green (HI-Temp) wire to the top switch terminal; then connect the Red (power) wire to the center terminal and the black (LO-Temp) wire to the bottom terminal. See Fig. 3.

Fig. 3



SNO-2143A

8. Remove the retaining nut from the toggle switch; then insert the toggle switch into the mounting location making sure that the grooved edge on the threaded section of the switch is facing downward. Secure with retaining nut.
9. Drill a 3/32 in. ground mounting hole in frame near the steering post making sure no wires are behind the hole. Remove the paint around the ground mounting hole to ensure a good ground; then route the yellow ground wire to the ground location and secure with Self-Tapping Screw. See Fig. 4 for recommended mounting location.

Fig. 4



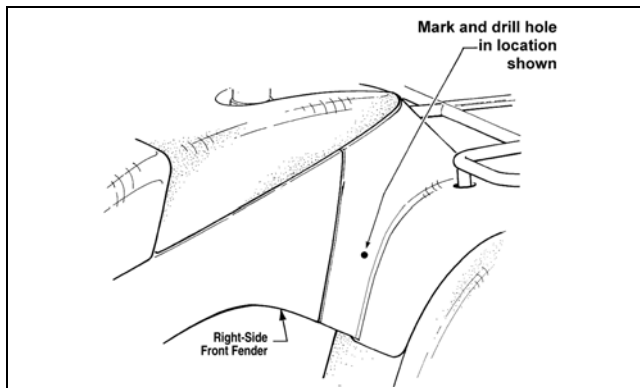
SNO-2142A

10. Connect the battery cables; then test the hand/thumb warmers.
11. Secure all the wiring with cable ties as needed.
12. Install the steering post cover, access cover and storage box cover.

Section 2 - Installing Toggle Switch and Wiring (1996-2004 ATV models)

1. Locate a desired mounting location for the toggle switch; then mark the center of the mounting location. Making sure there is clearance behind the drilling area, drill a hole using 1/2 in. drill bit. Temporarily insert the toggle switch into the mounting location. See Fig. 5 for the recommended mounting location.

Fig. 5



734-171A

⚠ WARNING

Do not mount the toggle switch in line with the gas tank. Drilling through the fender and into the gas tank area may result in damage to the gas tank and may also cause personal injury.

2. Remove the hardware securing the front fender/side panels; then pull the front fender/side panels forward enough to access the wiring harness located near the steering post.

■ **NOTE:** It should not be necessary to remove the front fender/side panels to gain access to the wiring harness and to route the wiring.

3. Connect the hand warmer lead wires and the thumb warmer lead wire to the terminals on the black molded plugs. Using a cable tie, secure the molded plugs together.

■ **NOTE:** The hand warmer and thumb warmer lead wires may be connected to any of the three molded plug terminals.

4. Route the hand/thumb warmer harness assembly along the handlebar and downward through the existing wire form. Secure with cable ties as needed. Continue routing along the main wiring harness and to the toggle switch location.

⚠ WARNING

Lead wire slack near the throttle must be neither excessive nor tight. Test the throttle lever to ensure that no binding occurs when the throttle is fully cycled. Inspect the entire movement of the throttle cable to ensure that no binding occurs. Binding of the throttle control could result in loss of control of the ATV.

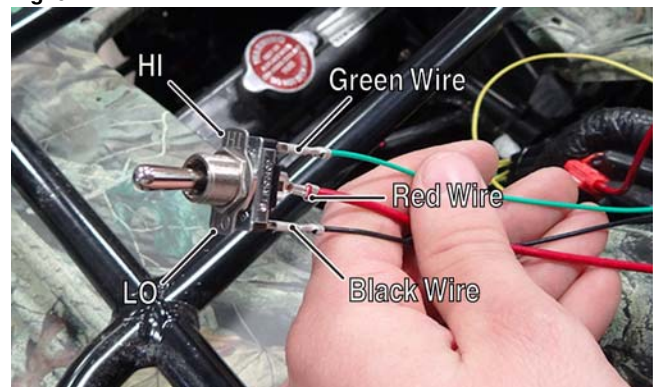
5. Remove the fuse block; then from the toggle switch area, route the power (red) wire along the main wiring harness to the fuse block area. Trim any excess wire.
6. Insert the red/black ignition wires at the fuse block into the slot in Connector. Insert the power wire into the enclosed channel in the connector. Using a pair of pliers, tightly crimp the connector metal tab to secure the wires. Snap the connector tab into place. Install the fuse block.

7. Remove the retaining nut from the toggle switch; then insert the toggle switch into the mounting location (if not already done) making sure that the grooved edge on the threaded section of the switch is facing downward.

■ **NOTE:** The grooved edge on the switch must correspond with the LO temperature black wire and also with the LO indicator on the indicator tab.

8. Place the HI/LO indicator tab over the switch making sure the HI indicator is positioned on the top. Secure the switch with the retaining nut making sure the HI/LO tab remains properly positioned.
9. Connect the green (HI-Temp) wire to the top switch terminal; then connect the red (power) wire to the center terminal and the black (LO-Temp) wire to the bottom terminal. See Fig 6 for proper wiring connections.

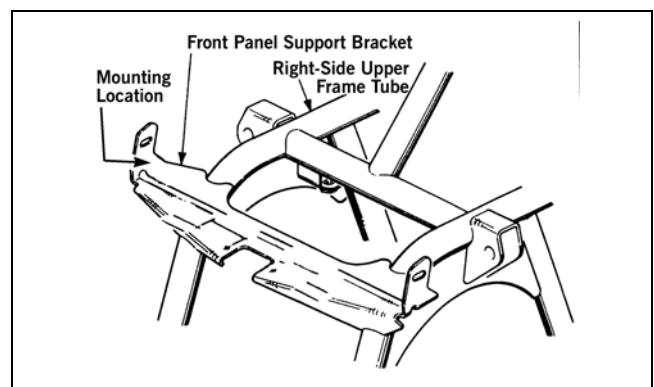
Fig. 6



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10. Drill a 3/32 in. ground mounting hole in the upper-right front panel support bracket. Remove the paint around the ground mounting hole to ensure a good ground; then route the yellow ground wire to the ground location and secure with Self-Tapping Screw. See Fig. 7 for recommended mounting location.

Fig. 7



734-170A

11. Connect the battery cables; then test the hand/thumb warmers.
12. Secure all the wiring with cable ties as needed.
13. Move the fender/side panel assembly back into position and secure with existing hardware.