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815-14199

743 E. Iona Rd. Idaho Falls, ID 83401, (208)529-0244 Fax (208)529-9000

# **SLP Intake Air Temperature Sensor Relocation Kit for 2012-17 Arctic Cat 800 Twin Part # 14-199**

## **Kit Contents:**

- 1 - intake air temperature relocation pigtail
- 3 - plastic cable ties
- 1 – 1" x 1 1/2" foil tape

## **Installation instructions**

Intake Air Temperature Sensor Removal:

1. Remove hood from the sled.
2. Remove right hand hood side from hood assembly by removing the three torx screws holding the right hand hood side in place. Then rotate the right hand hood side forward and gently pull front tabs of hood side out of air box to remove hood side.
3. Remove windshield.
4. Remove gauge assembly from hood.
5. Remove upper intake cowling/headlight cover by unclipping the wings from both sides of the headlight. Then unplug the 12 volt auxiliary wiring and key switch. Gently slide upper intake cowling/headlight cover to the rear and remove.
6. Remove stock air temp sensor by gently prying up on the outside corners with a small flat blade screwdriver. Warning: do not pry on the center of the sensor housing as sensor damage can occur.
7. Cut plastic tie holding sensor wiring to wire loom and remove stock intake air temp sensor.

8. Using 1" x 1 1/2" foil tape, cover stock sensor location (see illustration #1)

9. Look into stock intake holes and make sure foam on the upper half of the airbox has not come loose. If stock foam comes loose it can partially block the intake opening creating a restriction. Remove if necessary (see illustration #2).

### Intake Air Temperature Sensor Installation:

10. Remove pipe from sled.

11. Remove aluminum heat shield from nose of sled that protects ECU.

12. Remove ECU from sled.

13. Cut supplied template along dotted line.

14. Set template on top of lower airbox and align the four lines with the centers of the four Phillips screws that hold the fuel rail to the throttle bodies. Make sure to push paper template back so that it rests against the throttle bodies (see illustration #3).

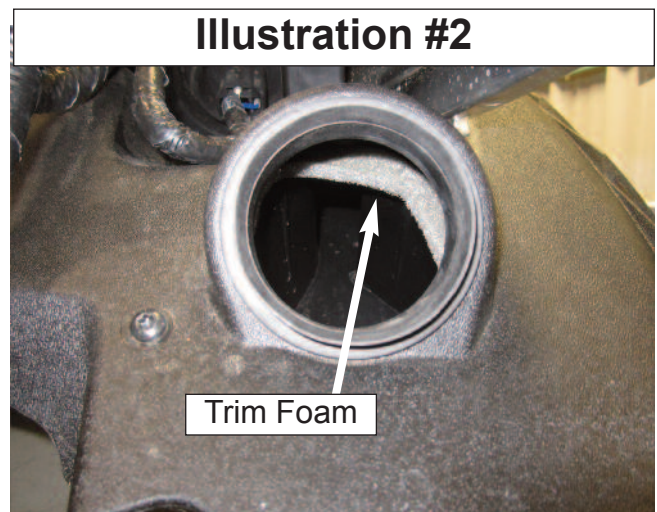
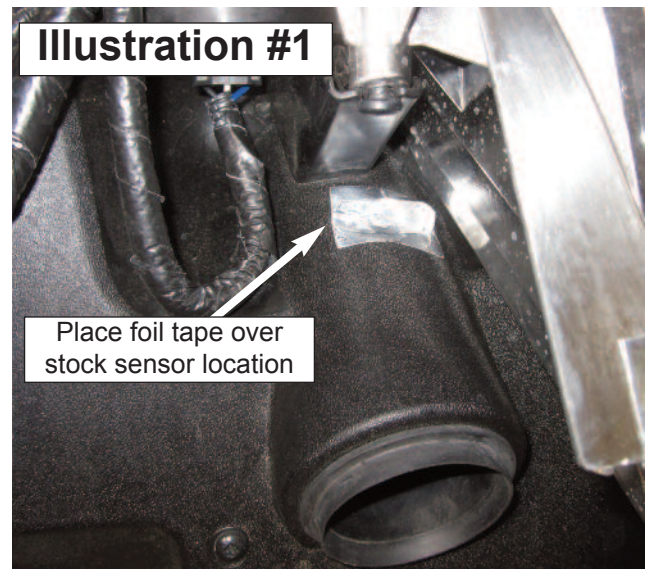
15. Center punch the sensor holes in the air box through the paper template.

16. Using a 1/2" bit, drill the center hole.

17. Using a 3/16" bit, drill the two outer holes. **Caution:** Remove all plastic shavings from the air box or severe engine damage may occur.

18. Insert the stock intake air temp sensor (previously removed from the hood) into the lower airbox using the stock darts that held it into the hood (see illustration #4)

19. Connect the SLP supplied pigtail to the intake air temp sensor and route the pigtail up the outside of the right hand frame member as shown in illustration #5. Fasten the pigtail to the frame member using three plastic ties provided.



**Caution:** Do not fasten to the throttle cable as throttle cable must float up and down as steering is adjusted on models with vertical steering.

20. Reinstall ECU in sled.

21. Reinstall aluminum heat shield that protects the ECU back in the stock location.

22. Reinstall pipe in sled. Use anti seize on threads of the exhaust temperature sensor making sure not to over-torque it (exhaust temperature sensor recommended torque is 12-15 ft/lbs.)

23. Reinstall the upper intake cowl/headlight cover by sliding the upper intake cowl/headlight cover to the front of the hood and engaging the intake tubes into the rubber grommets. Then gently engage the wing clips on both sides of the headlight. Plug the 12 volt auxiliary wiring and key switch back in.

24. Reinstall the gauge and plug wiring harness into the gauge.

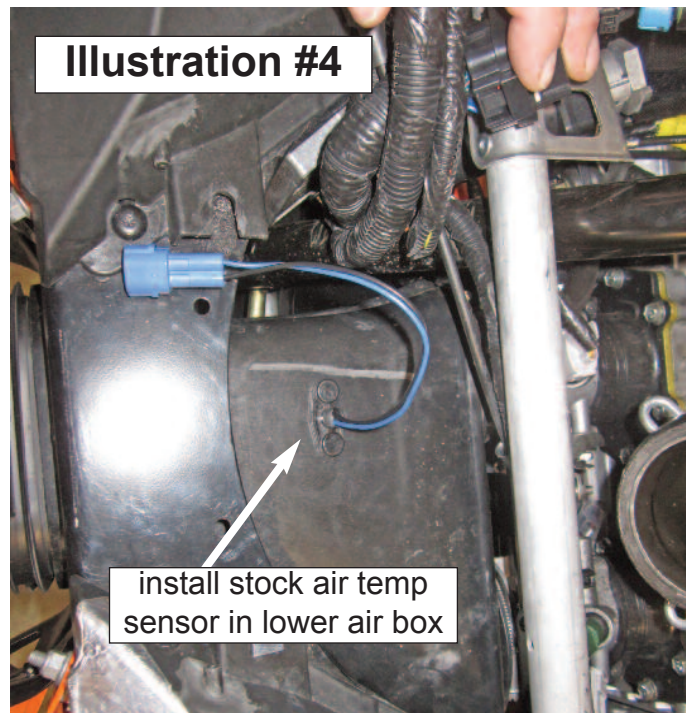
25. Reinstall the windshield.

26. Reinstall the right hand hood side to the hood assembly by gently inserting the front tabs of hood side into the airbox and then once fully engaged, rotate hood side rearward. Replace the three torx screws that hold the right hand hood side in place.

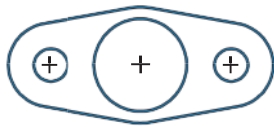
27. Reinstall the hood on the sled.

28. Plug the SLP pigtail into the stock intake air temp sensor wiring plug located below the gauge (it is a blue 2 prong plug).

**NOTE:** Loop pigtail around outside of right hand air box horn, then plug it in. This will keep pigtail from getting snagged on the steering column.







Cut along dotted line.