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Cannondale Motorsports Technical Bulletin

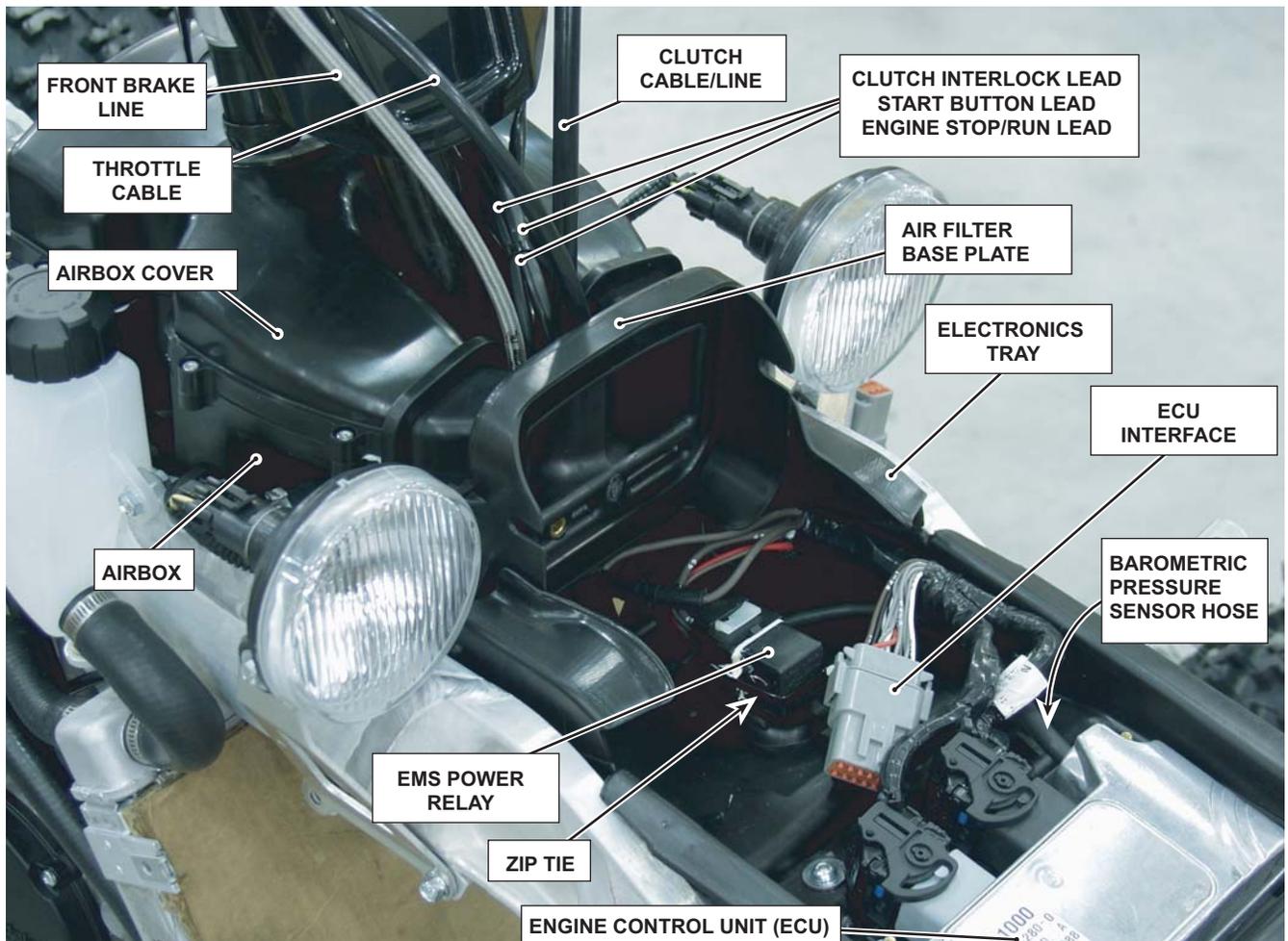
BULLETIN : TB02-004

MODELS : All 2001, 2002 ATVs

ISSUED : 2/22/02

SUBJECT : Airbox assembly installation technique

CONDITION : A factory developed technique for simplifying the compact airbox assembly installation can be used by field service technicians. This bulletin describes the re-assembly of a removed airbox assembly (airbox, airbox cover, base plate and frame vent hose, and the electronics tray).



Information is subject to change without notice.

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TECHNIQUE DESCRIPTION

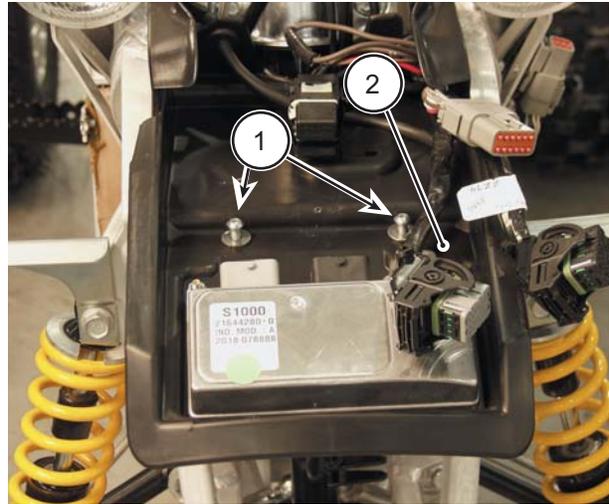
The following steps define a procedure requiring considerable mechanical skill and understanding. The steps defined were undertaken following the removal of the airbox assembly by a skilled technician. The reassembly steps are intended as a supplemental guide for a qualified service dealership technician already having a detailed understanding of the assembly.

1. Start by removing the wiring harness ECU connectors from the ECU. Be sure to note the color coded connectors and the corresponding sockets of the ECU. The grey tipped connector mates with the grey socket and the black-tipped connector mates with the black connector. To release the connectors, press in the small locking tabs (1) on each ECU connector and release the sliding lock (2). Releasing the locking tabs is made easier by applying light pressure in the direction of the smaller arrow below while pressing in the tabs. Disconnect both harness connectors from the ECU.



2. Loosen the two front electronics tray mounting bolts (1), but do not remove them. Once loose, you should be able to shift the electronics tray as needed later when installing the two electronics tray rear mounting bolts. The two rear mounting bolts were previously removed with the air filter base plate. Be sure to note the barometric pressure sensor hose connection to

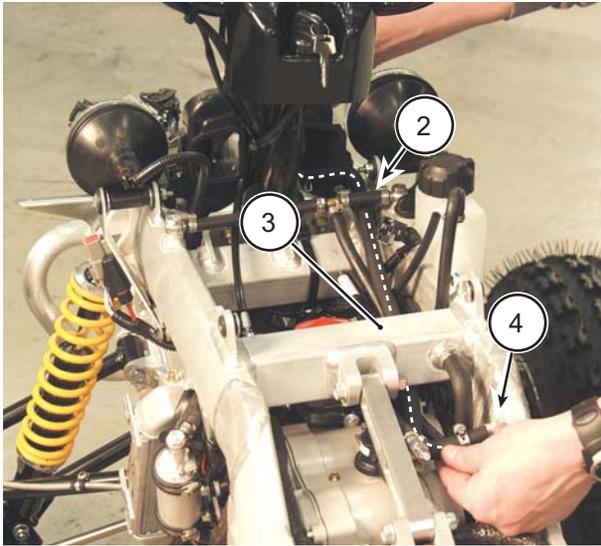
the ECU. It is not necessary to remove it, but if it does become disconnected, be sure it is reconnected.



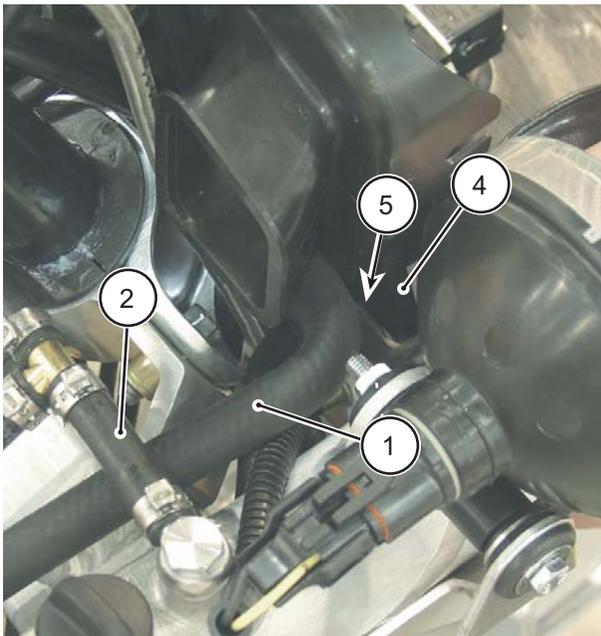
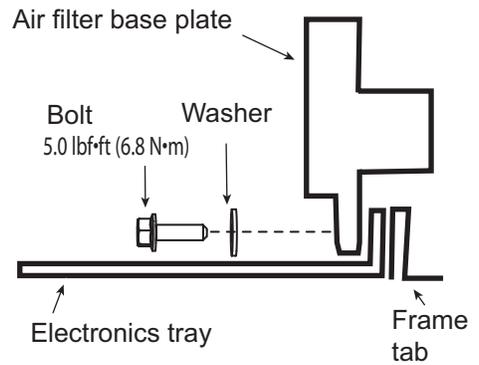
1. Bolts
2. Hose connection

3. With the vent hose (1) attached to the back of the air filter base plate, route the hose to the frame vent fitting. Route it under the engine oil frame return line (2) and under the frame member (3). When the hose reaches the frame outlet (4), slip the base plate into the electronics tray and install a small hose clamp. Slip the base plate mounts (5) in behind the electronics tray mounting flanges (6). Make

sure all cables, hoses, and wiring routes are passing through the funnels of the base plate.



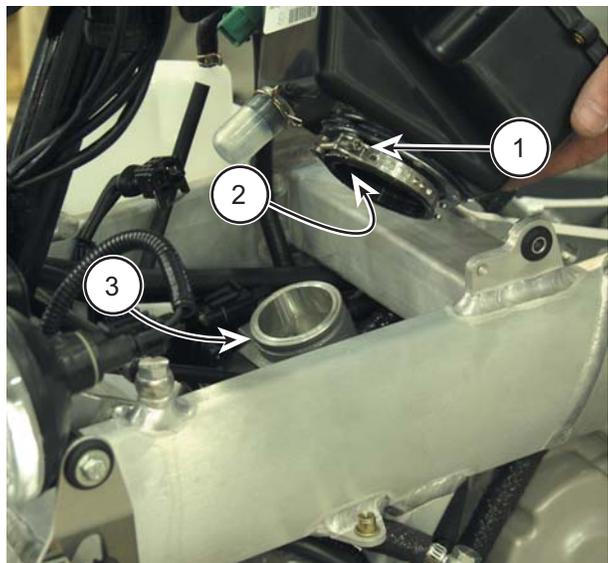
Tighten the bolts to 5.0 lbf•ft (6.8 N•m). Tighten the front electronics tray mounting bolts to 5.0 lbf•ft (6.8 N•m)



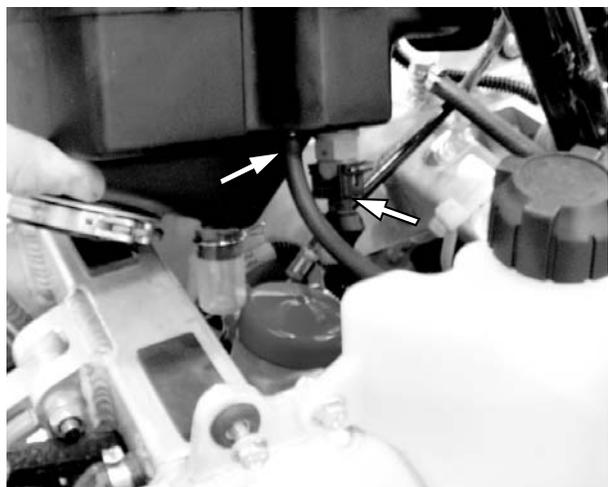
4. Use a long extension to install the rear electronics tray mounting bolts and washers through the base plate mounting holes and through the holes in the electronics tray.

5. Make sure all of the foam seals are inserted into the grooves in the lower airbox. Align the head of the throttle body clamp screw so that when the airbox is seated on the throttle body the screw head is pointing toward the left front shock. This is necessary so that the clamp can be tightened easily with a long extension from the left side of the vehicle. Be sure to notice the lip (2) on the inside of the rubber seal

and the groove (3) on the throttle body. The airbox is properly seated when these two are mated.



6. Slip the steering column in between the airbox funnels. Before you lower the clamp onto the throttle body, be sure to connect the barometric pressure sensor hose to the bottom of the airbox and connect the air temperature sensor harness connector.

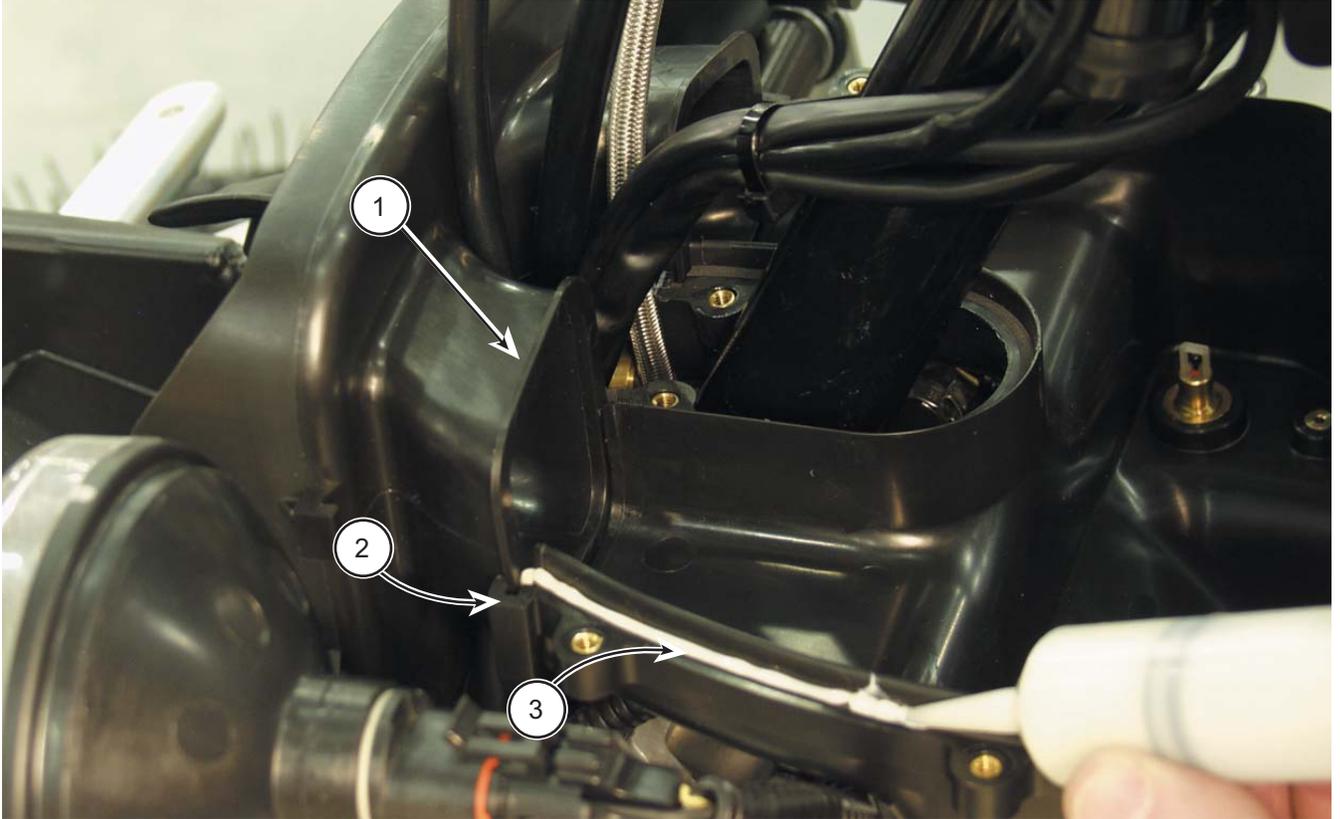


7. Lower the airbox onto the throttle body. Position the flanges (1) of the base plate into the grooves (2) of the lower airbox funnels. Make sure the airbox is seated properly on the throttle body. Use a long extension

approaching from the left side to tighten the lower airbox clamp securely. Do not over-tighten it.



8. Route all cables, wires, and hoses through the opening and in front of the steering column. When everything is positioned, apply a thin bead of waterproof grease (3) on top of the foam seals.



9. Install the airbox cover onto the air box. Fit the cover carefully. Only a modest amount of down force (squeezing the foam seals) should be needed to bring the two halves together. Do not use the cover bolts to draw the two together; the threaded inserts will pull out. Install the cover screws and tighten securely. .

