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Cannondale Motorsports Service Bulletin

BULLETIN : SB02-003

MODELS : MC1000 Update Kit - ATV, P/N 913-6000712

ISSUED : 3/6/02

SUBJECT : Correction to kit instructions

CONDITION : A required step was not included in the installation instructions for MC1000 Engine Management System updates kits for ATVs, P/N 913-6000712, shipped prior to 3/6/02 . The document titled "MC1000 Update Kit - ATV" (6000712-I), did not include the step for removing one of the two relays of the MC500 wiring harness and inserting it into the single socket on the MC1000 harness included with the kit. Either relay of the MC500 system (EMS power or fuel pump) can be used in the MC1000 system if the relay is un-damaged and functioning properly. The location of the relay on the vehicle electronics tray can be seen in the photo on page 2.

CAUTION

If the EMS power relay is not installed as indicated, the engine will start and run, but damage to a diode incorporated in the vehicle wiring harness can result. When this happens, the engine will not start or may shut off during operation.

SOLUTION : For instructions dated "Printed 11/21/01," (see lower right page corner) insert the following step, and take corrective action for vehicles already serviced.

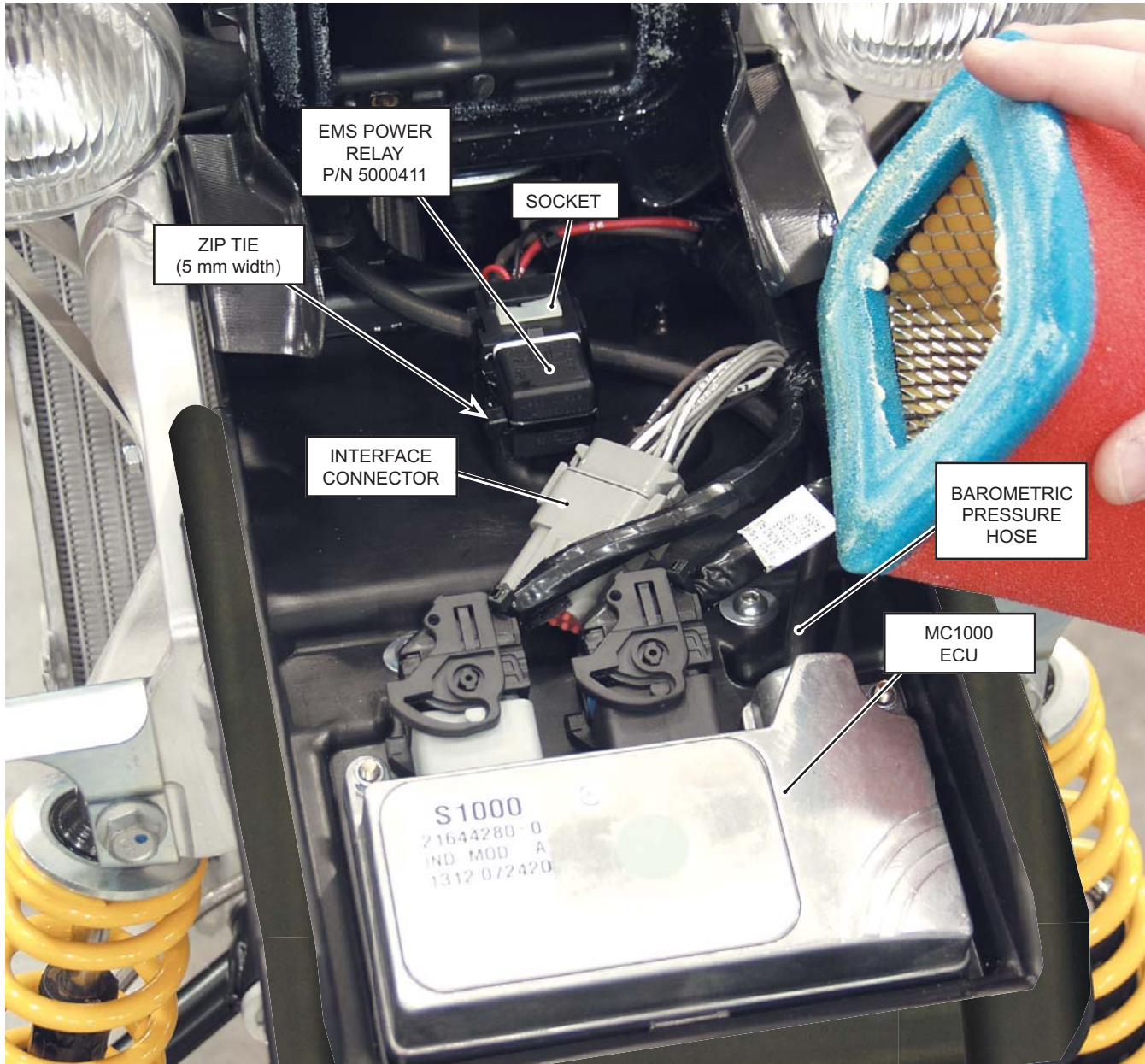
Step 59a

Remove one of the two relays of the MC500 wiring harness. Test the relay for proper operation. Apply some dielectric grease to the relay terminals and insert the relay into the MC1000 harness socket. Secure the relay to the socket using a plastic zip tie. The tie used should have a minimum width of 5 mm (See TB02-001). Be sure not to pinch or bind any of the wires entering the back of the socket when installing the tie. See photo on page 2.

This bulletin includes a relay test procedure. See Relay Function Test on page 3.

PARTS : If the relays from the MC500 harness have been lost or damaged, please contact us at 1-800-MOTO-USA. The relay part number is P/N 5000411.

RELAY INSTALLATION (MC1000)



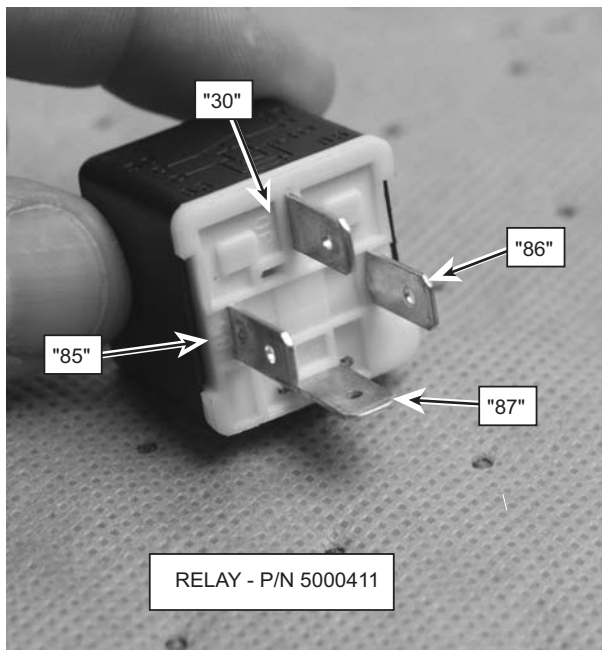
NOTE :

This photo shows the components of the electronics tray of an MC1000 Engine Management System equipped ATV. Components have been removed for this photo. The air filter has been removed from the air filter base plate for clarity.

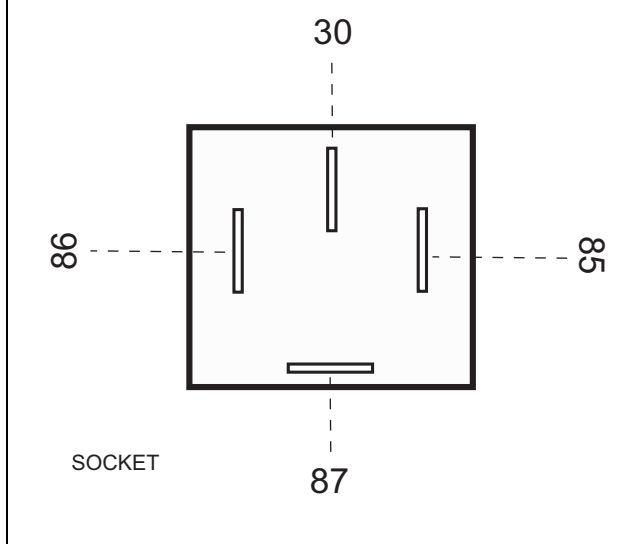
RELAY FUNCTION TEST

There are no markings on the socket itself; use the illustration below for identification.

1. Remove the relay from its harness socket.
2. Using an ohmmeter, connect the positive probe (+) onto terminal number 86 and the negative (-) probe onto terminal number 85 and check the resistance. The resistance should be 73 ohms (+/- 10%). If the resistance is out of specification → replace the relay with a new one.



3. Using an Ohmmeter, connect the positive probe (+) onto terminal number 30 and the negative (-) probe onto terminal number 87 and check the for continuity. There should be no continuity. If continuity is observed the relay is damaged; discard it.
4. Connect 12 V (+) battery voltage to the number 86 terminal and ground terminal number 85. There should be continuity between terminals 30 and 87. If there is not, the relay is damaged; discard it.
5. Use a voltmeter to verify that there is voltage present at the wiring harness socket corresponding to relay terminal 87 when the ignition switch is turned "ON". Do not start the engine. If there is no voltage present check the main fuse. Use the vehicle wiring diagram to check the circuit. Take corrective action.



NOTE :

Wiring diagrams are available on our website.
<http://www.cannondale.com/motorsports/tech/servman.html>

NOTE :

When the ignition switch is turned "ON," the installed relay will make an audible "click."