

# CSC Arrow Voltage Regulator Kit

Attn: Trike Assembly Department

Included is a voltage regulator module kit for the 2017 CSC Arrow Trike kits that have a low voltage problem when the CSC reverse is engaged.

The Indian motorcycle electronics have been changed for 2017 and in this redesign Indian has created a situation where the motorcycle will shut itself off if battery voltage drops below approximately 11.5 volts. This will sometimes cause the motorcycle to turn off or turn on the check engine light while using the CSC electric reverse thus halting the trike.

What the module does is maintain a minimum of 12.5V to the motorcycle ECM regardless of battery voltage.

The kit includes a regulator module, a harness pigtail, and a jumper plug.

Note 1: Because the voltage gage on the dashboard of the motorcycle reads ECM voltage, it will only show the voltage that the CSC regulator module is putting out. It will not show battery voltage if the battery voltage goes below 12.5V.

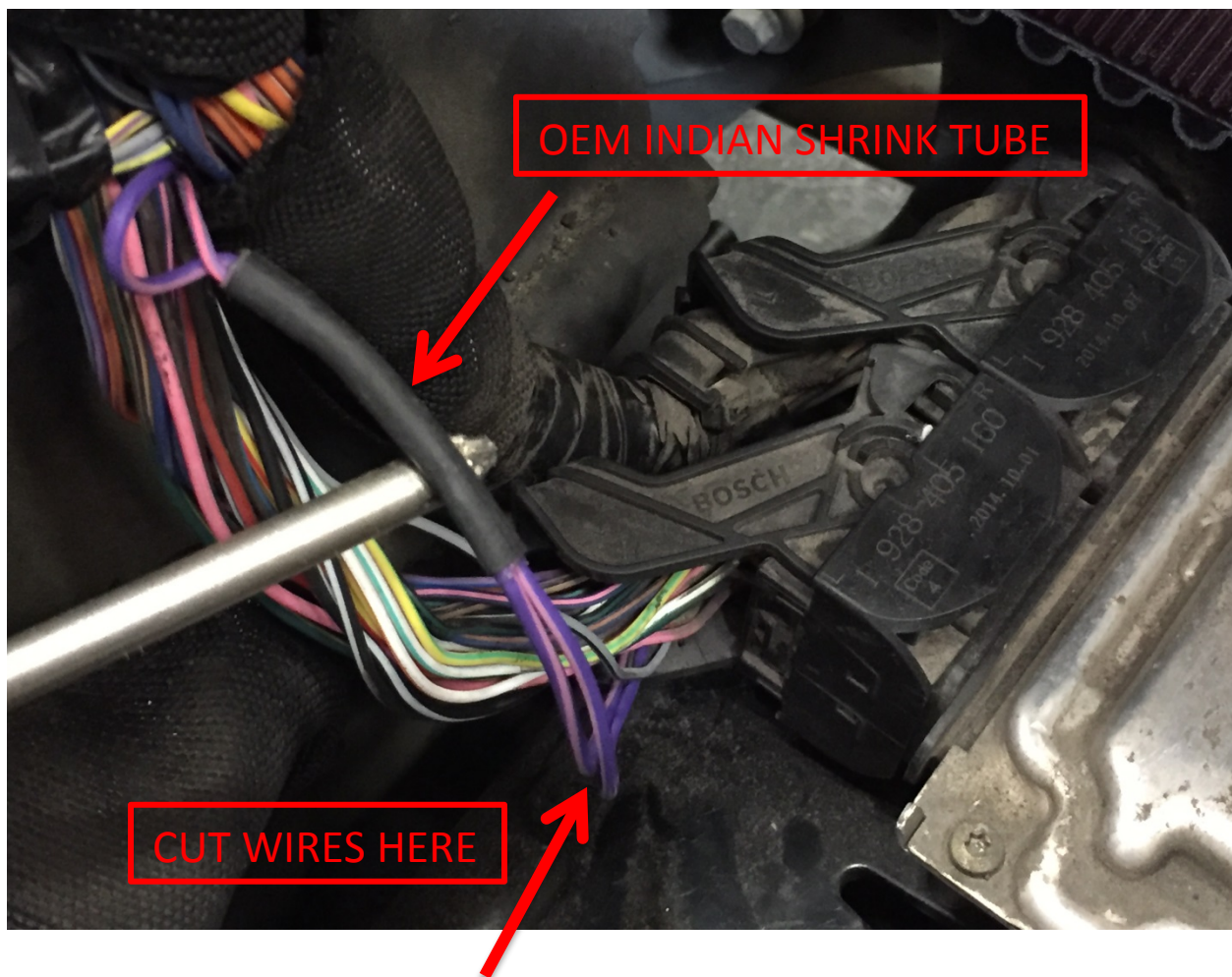
Note 2: We have included a jumper plug. In case the module should fail, the module would be unplugged and the jumper plugged in its place. This will enable the motorcycle to run but reverse may not work.

## INSTALLATION:

1. Locate the motorcycle Engine Control Module. This can be found under the motorcycle battery box.
2. The two PURPLE with PINK tracer wires from the motorcycle ECM will need to be uncovered from the motorcycle harness. See picture.
3. Cut these wires approximately 2 inches away from the ECM connector.
4. Connect, solder and heat shrink tube the PURPLE wire from the CSC pigtail to the PURPLE w PINK TRACER wires coming from the motorcycle ECM connector.

5. Connect, solder and heat shrink tube the RED wire from the CSC pigtail to the PURPLE w PINK TRACER wires coming from the motorcycle wire harness.
6. Connect the BLACK wire from the CSC pigtail to a good chassis ground. Where the motorcycle negative battery cable connects is the recommended spot.
7. Plug the regulator module into the CSC pigtail and test the operation of the reverse.
8. If all works correctly wrap the motorcycle harness back up and mount the regulator box to a sturdy place, the side of the battery box is a good spot.
9. DONE

If you have questions, please contact the service department at CSC.



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