

Advanced Rider Assistant Supplementary Manual



Suzuki GSX650F 2008-2015 (ARA-1 + ARA-K4B + ARA-D04)

Secure the bike on a stand.



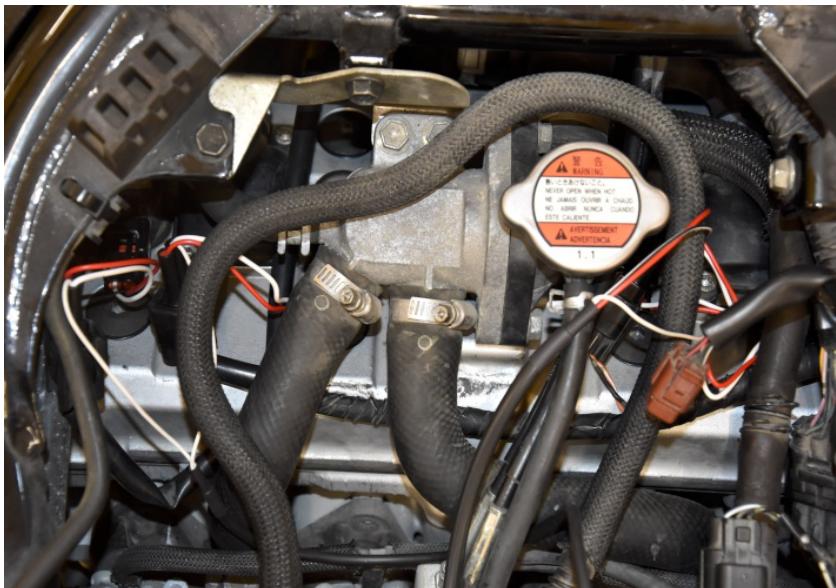
Remove the seat and remove the fuel tank.



Locate the ignition coil connectors.

Use the following connections without the iQSE:

Plug the ARA connectors in-line with the ignition coil connectors.



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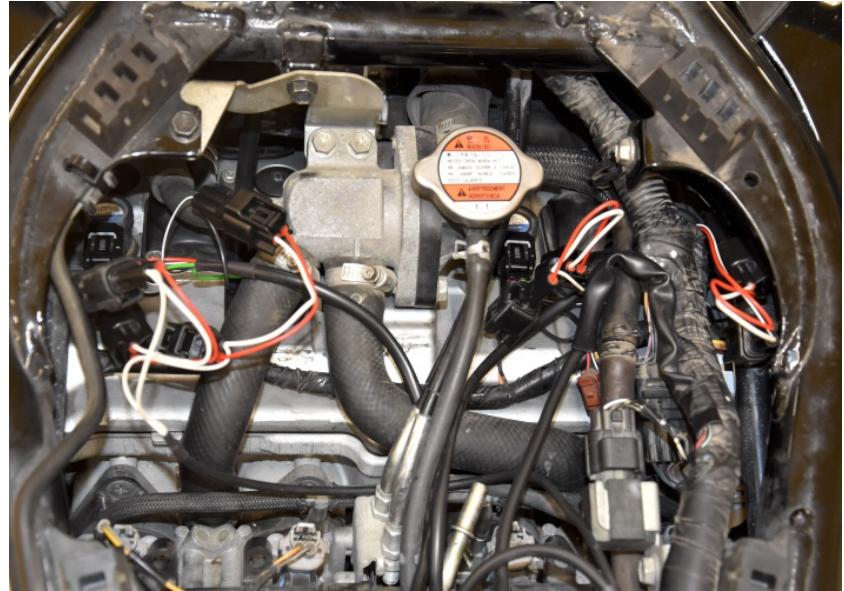
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Use the following connections with the iQSE:

Connect the QSX connectors to the ignition coil connectors.

Plug the ARA connectors in-line with the QSX free connector and the bike harness plug.

(Bike harness plug -> ARA plugs -> QSX plugs -> ignition coil plug.)

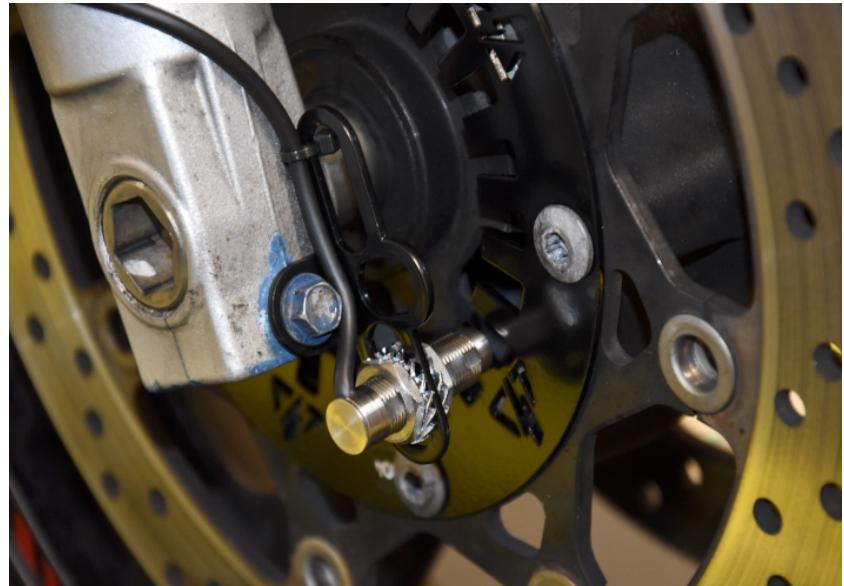


Connect the ARA Black wire terminal to the battery negative terminal.



Mount the supplied disc and wheel speed sensor at the front wheel.

(For the disc mounting see the Front Disc Mounting all bikes without ABS supplementary manual. Reinstall the brake disc as per the bike's service manual. For safety, you may use threadlocker to make sure the nut or bolt won't get loose due to vibrations. Adjust and tighten the sensor so that the sensor's tip will be in the centerline of the targets. The air-gap should be about 1mm.)



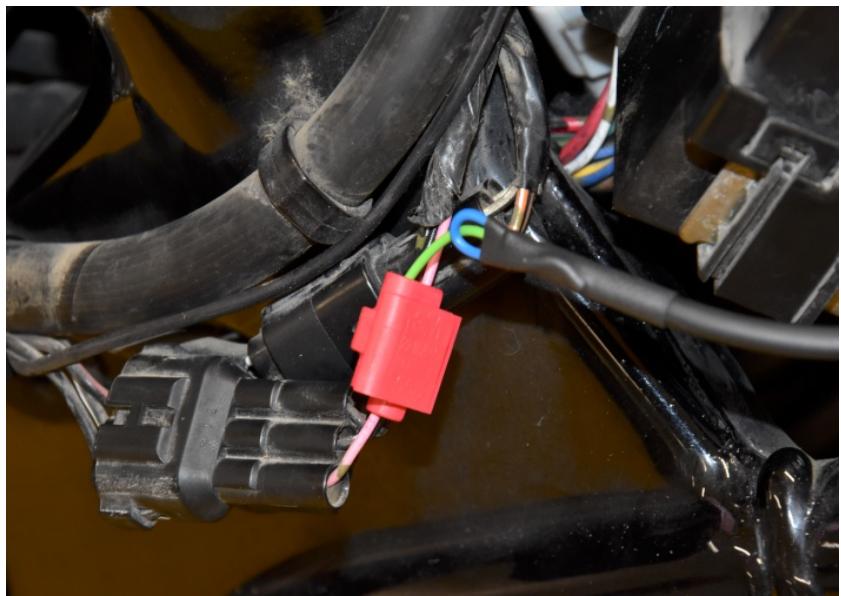
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Splice the ARA Green wire to the Pink wire of the speed sensor connector.

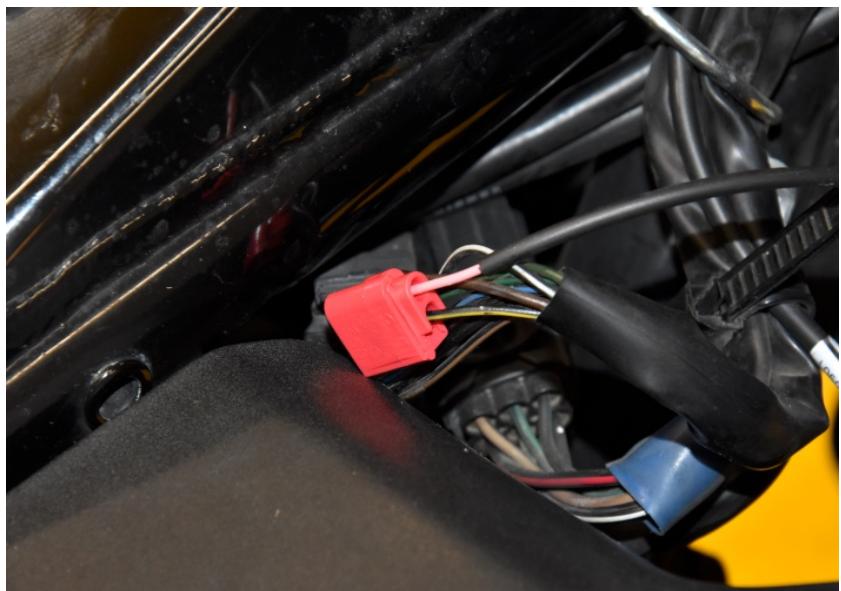
Connect the 3-pole front wheel speed sensor connector to the ARA wiring.



Optional:

Connect the ARA Pink wire to the Black/Yellow wire of the Clutch switch under the ignition switch.

While the connector is connected, turn ignition on. Measure the voltage (DC 20V setting) on the wires, at the back side of the plug. You need to use the wire where the voltage value changes while you pull the clutch lever. Alternatively check the clutch switch indication in the ARA application on your phone.



Mount the switch onto the handlebar.

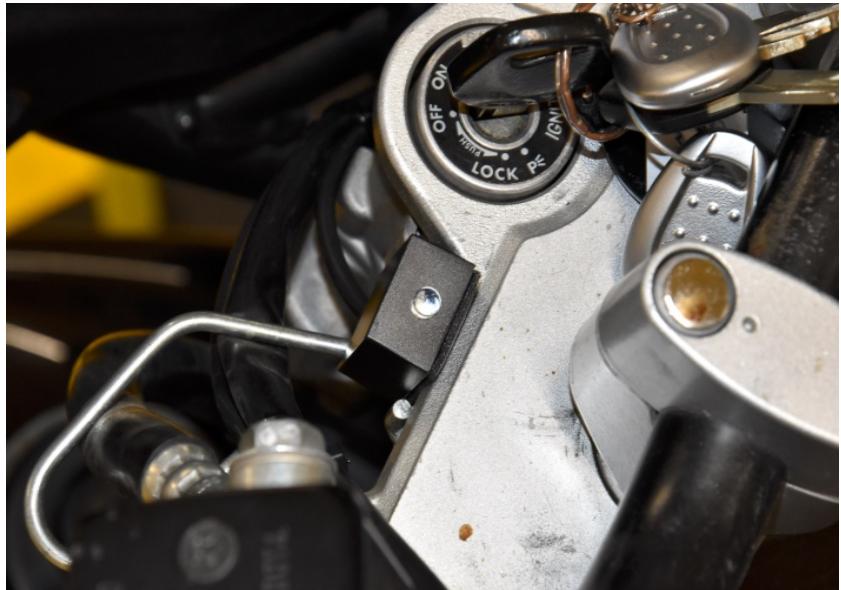


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Mount the LED indicator.



Typical position for the ARA module.

Secure the unit properly.

