

Advanced Rider Assistant Supplementary Manual



BMW R1200GS 2004-2012 (ARA-1 + ARA-K2U + ARA-D23)

Secure the bike on a stand.



Remove the seats.

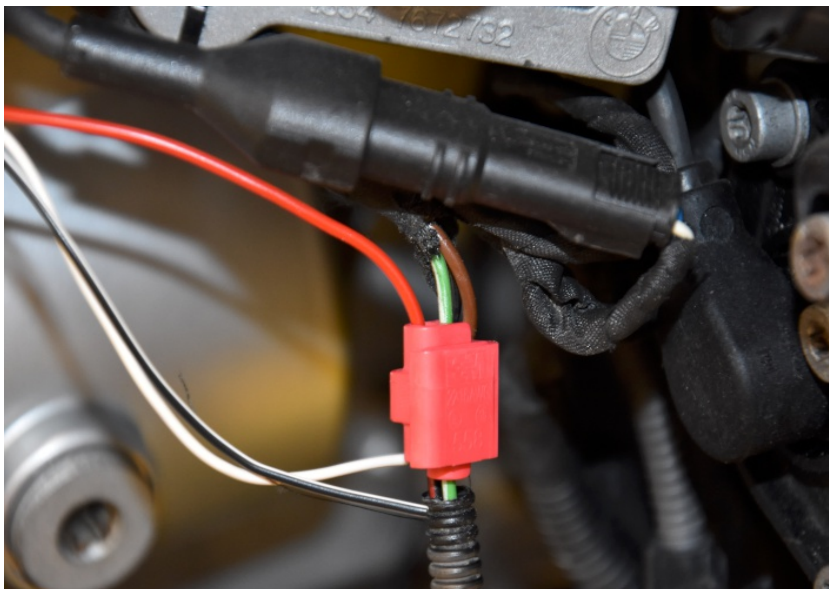
Remove the plastic covers from the fuel tank.

Remove the fuel tank.



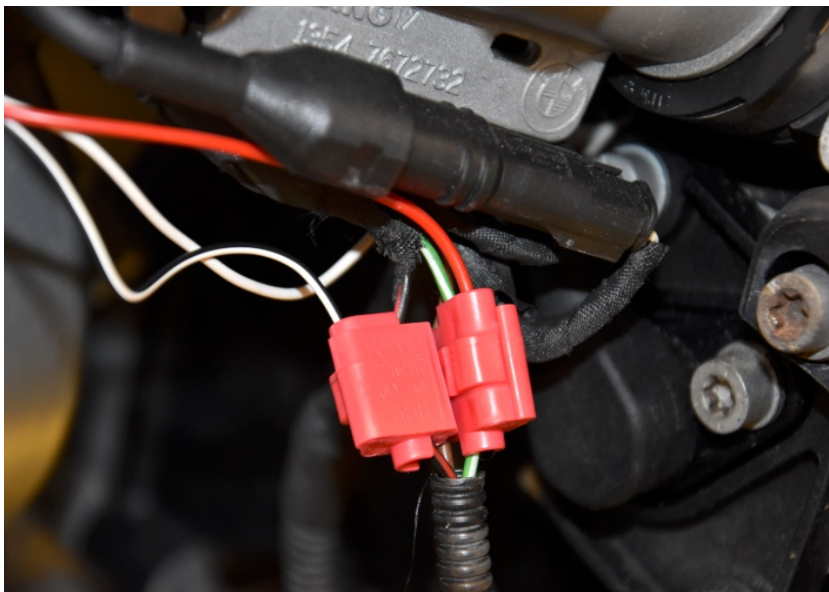
Locate the ignition coil connectors.

Connect the ARA Red wire to the
Green/White wire of the main ignition
coil.

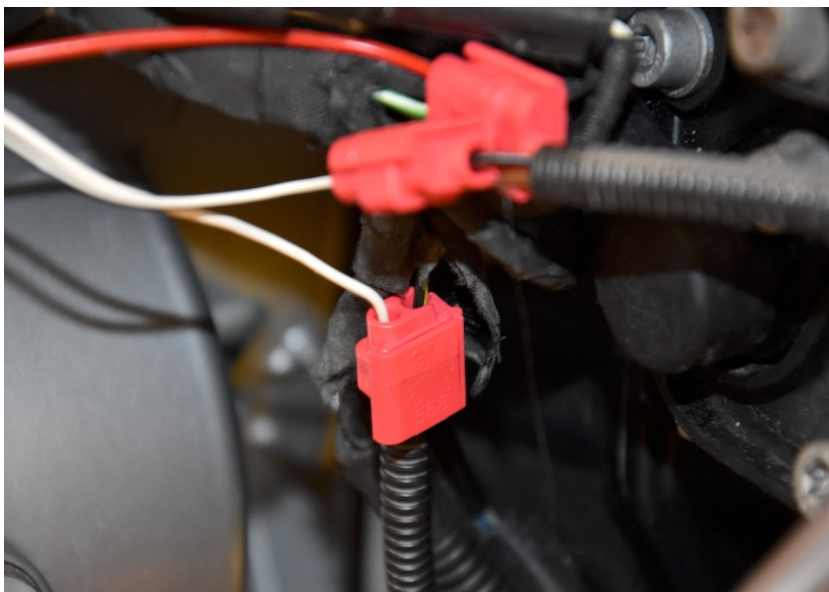


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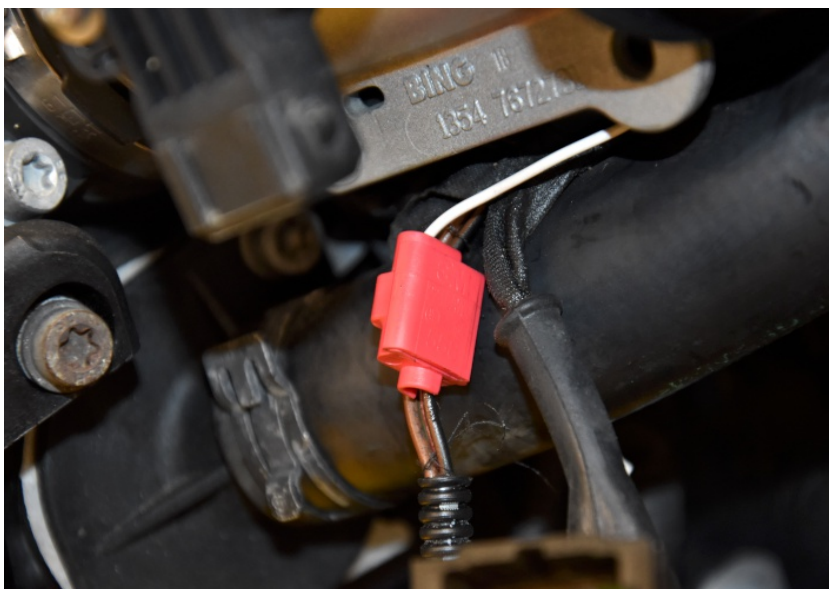
Connect the ARA Black/White wire to the Black/Red wire of the main ignition coil.



Connect the ARA White wire to the Black/Yellow wire of the auxiliary ignition coil.



Connect the ARA White wire to the Black/Brown wire of the other main ignition coil.

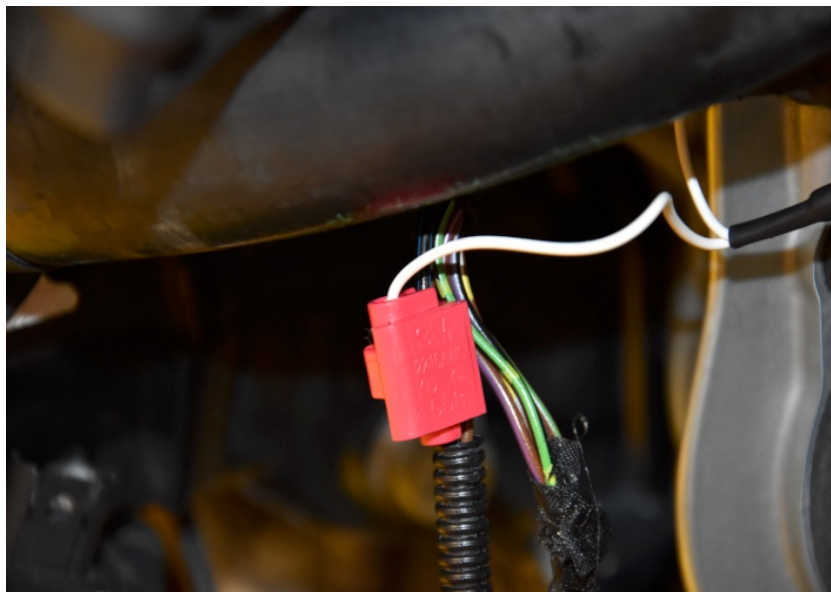


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Connect the ARA White wire to the Black/Blue wire of the other auxiliary ignition coil.



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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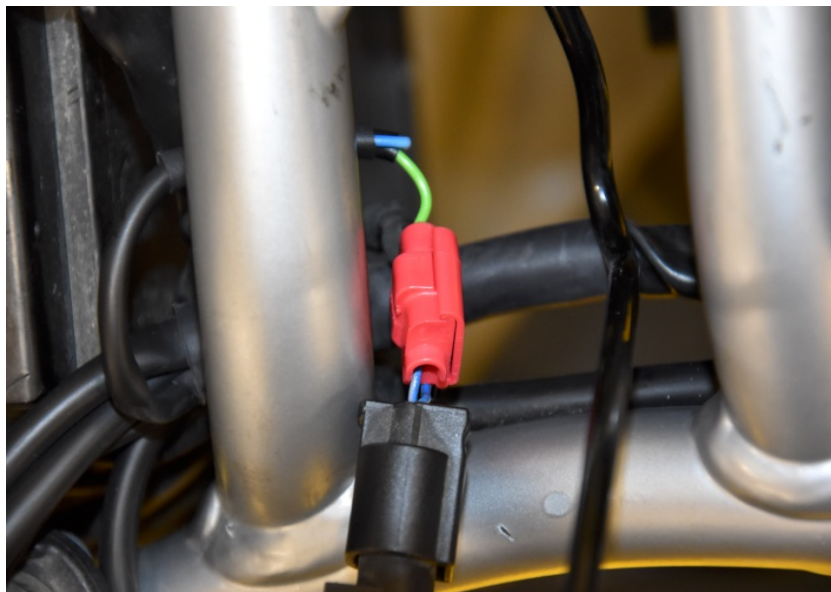


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Splice the ARA Green wire to the Blue/Grey wire of the speed sensor connector.

Pay attention! The two wires are the same color in the connector, measure the voltage of the right wire!

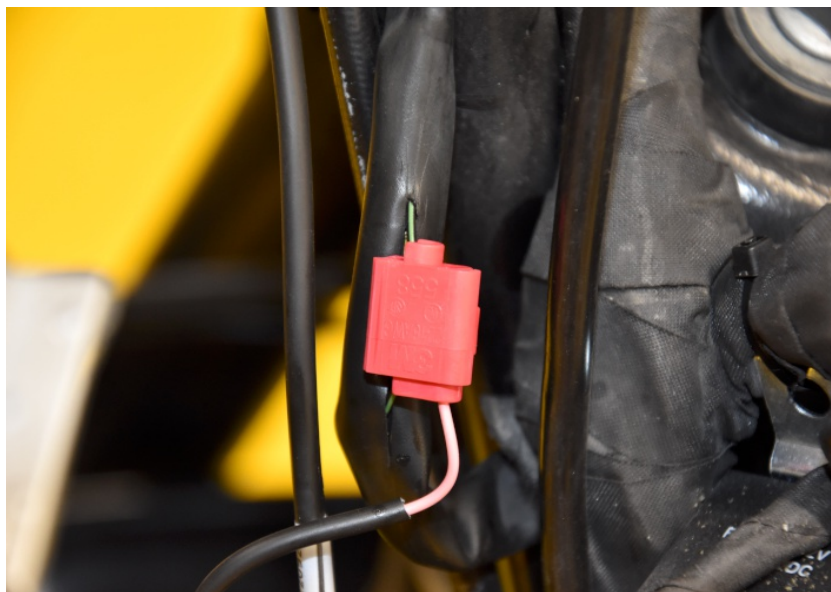
Connect the 3-pole front wheel speed sensor connector to the ARA wiring.



Optional:

Connect the ARA Pink wire to the Black/Green wire of the Clutch 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 on the dashboard.



Typical position for the ARA module.

Secure the unit properly.

