

# How to Inspect Spark Plugs – 6.2 L RCL

## INSPECTING SPARK PLUGS



**Disable the generator set. Accidental starting can cause severe injury or death** Before working on the generator set or equipment connected to the set, disable the generator set as follows:

- Press the generator set off/reset button to shut down the generator.
- Disconnect the power to the battery charger, if equipped.
- Remove the battery cables, negative (- ) lead first. (Connect the negative (- ) lead last when reconnecting the battery.)

Service the spark plugs at the interval specified in the service schedule using the following procedure.

- Press the off button on the RDC2 controller.
- Disconnect the power to the battery charger.
- Disconnect the generator set engine starting battery, negative (- ) lead first.
- Remove spark plug wires by grasping the spark plug boot and turning slightly while pulling. Do not pull the wire. Pulling on the wire rather than the boot may damage the wire or terminal.
- Loosen the spark plug with a ratchet and 5/8". spark plug socket with a rubber insert to prevent spark plug damage.
- Use compressed air to remove dirt from around each spark plug to prevent dirt particles from falling into the combustion chamber.
- Remove spark plugs, one at a time, and examine. Identify a spark plug in good operating condition by observing a light tan or gray deposit on firing tip. See Figure 4-10 to evaluate engine condition by color/condition of a spark plug.
- Clean spark plugs by wiping them with a rag. File the center electrode to keep it parallel to the side electrode.  
**Note:** Do not sandblast, wire brush, scrape, or otherwise service spark plugs in poor condition. Obtain a new plug for best results.
- Check the spark plug gap before installing any spark plug. See Figure 4-7 and Figure 4-8. Attain a correct gap when the feeler (or wire) passes between the spark plug electrode. It should pass easily but with some resistance or drag; otherwise adjust as necessary.

Spark Plug Specifications	
Spark Plug Gap	0.76 mm (0.03 in)
Spark Plug Torque	27 Nm (20 ft lb)

Figure 4-7

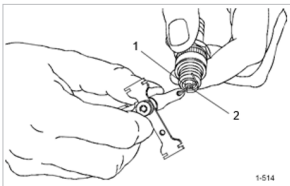


Figure 4-8

- Use a gapping tool to gently bend the side electrode closer to or farther from the center electrode to set the correct gap. See Figure 4-9. Position the side electrode directly over the center electrode.

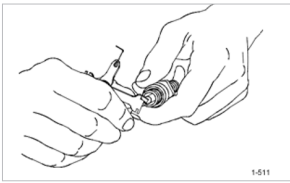


Figure 4-9

- Reinstall the spark plug. Do not bump the electrode against the cylinder head. Rotate the spark plug clockwise until you feel resistance.
- Use a torque wrench to tighten each spark plug to the torque shown in Figure 4-7. Otherwise, hand-tighten the spark plug until you feel resistance. Then use a ratchet wrench to final tighten an additional 1/4 turn. Do not overtighten, as doing so may strip the threads or alter the electrode gap setting.
- Check the spark plug wire connector in the boot for accumulated dirt, grease, and other debris; clean as necessary.
- Firmly push the spark plug boot onto the spark plug.
- Reconnect the generator set engine starting battery, positive (+) lead first.
- Reconnect the power for the battery charger.