

**► TASK** Inspect and test starter relays and solenoids;  
determine needed action.

**MAST**  
6C3

Time off \_\_\_\_\_

Time on \_\_\_\_\_

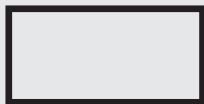
Total time \_\_\_\_\_

**CDX Tasksheet Number: C311**

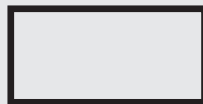
1. Research the procedure and specifications for testing starter relays and solenoids in the appropriate service information.
  - a. What is this vehicle's starting system equipped with?  
Starter Solenoid \_\_\_\_\_ ; Starter Relay \_\_\_\_\_ ; Both \_\_\_\_\_
  - b. List the resistance of the starter solenoid windings: Pull in:  
\_\_\_\_\_ ohms; hold in: \_\_\_\_\_ ohms
  - c. List the specified resistance of the starter relay winding: \_\_\_\_\_ ohms
2. Disable the vehicle's fuel or ignition system so it will not start.
3. Following the manufacturer's test procedure, list the voltmeter connection points in the circuit to test the voltage drop across the relay or solenoid contacts.
  - a. DMM red lead: \_\_\_\_\_
  - b. DMM black lead: \_\_\_\_\_
4. Conduct the Starter Relay/Solenoid Voltage Drop Test.
  - a. List the voltage drop: \_\_\_\_\_ volts
  - b. Is this reading within specifications? Yes: \_\_\_\_\_ No: \_\_\_\_\_
5. Measure the resistance of the starter solenoid windings:
  - a. Pull in: \_\_\_\_\_ ohms
  - b. Hold in: \_\_\_\_\_ ohms
6. Measure the resistance of the starter relay winding: \_\_\_\_\_ ohms
7. Determine any necessary actions:
8. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.

**Performance Rating**

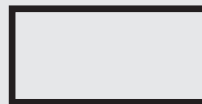
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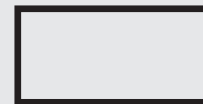
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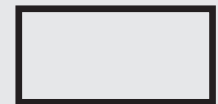
**1**



**2**



**3**



**4**

Supervisor/instructor signature \_\_\_\_\_ Date \_\_\_\_\_