



## **WORKSHEET 4-7** ***Starter Relay Test***

Vehicle	Year/Prod. Date	Engine	Transmission
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### **Worksheet Objectives**

When you have completed this worksheet, you should be able to test the starter relay for proper operation.

### **Tools and Equipment**

For this exercise you will need the following:

- Technician's Handbook
- Vehicle
- DMM
- Repair Manual/EWD

### **Exercise 1: Continuity Checks**

1. Check the electrical wiring diagram for the vehicle you are testing. Note the terminal assignments for the starter relay connector.

For the coil: \_\_\_\_\_

For the contacts: \_\_\_\_\_

2. Set up the DMM to check continuity:
  - Mode selector knob to Ohms
  - Auto-range on
  - Black lead inserted into COM input jack
  - Red lead inserted into Volt/Ohm/Diode input jack

3. Remove the starter relay.

4. Measure continuity through the relay:

Through the coil \_\_\_\_\_ ohms

Through the contacts \_\_\_\_\_ ohms

5. Use a set of jumper wires and the power supply from the electrical simulator to apply battery voltage across the relay coil.

6. Measure continuity through the relay contacts only (do not apply the meter leads to the coil with voltage applied).

Record your measurement here: \_\_\_\_\_ ohms

Does the relay pass the continuity checks?    \_\_\_\_\_ Yes    \_\_\_\_\_ No

7. Re-install the relay in its socket when you have finished the test.

# Starter Relay Test

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Review this sheet as you are doing the Starter Relay Test worksheet. Check each category after viewing the instructor’s presentation and completing the worksheet. Ask the instructor if you have questions regarding the topics provided below. Additional space is provided under topic for you to list any other concerns that you would like you instructor to address. The comments section is provided for your personal comments, information, questions, etc.



Topic	Comment		
Check Continuity			



## Notes