

# 6.0 L No Start/No Crank

STEP 1: VISUAL INSPECTION OF ENGINE COMPARTMENT	OK	NOT OK	COMMENTS
Inspect the battery cables and connections			
Inspect the wiring harnesses and connections			

STEP 2: BATTERIES <input checked="" type="checkbox"/> Clean the battery cables and connections <input checked="" type="checkbox"/> Load test the batteries		
TOOL	SPECIFICATION	READING
Battery Load Tester	9.6 volts min. @ 1/2 CCA	

STEP 3: POWER SUPPLY TO THE STARTER <input checked="" type="checkbox"/> Using the starter case as a ground, check the power supply to the starter "B" terminal		
TOOL	SPECIFICATION	READING
DVOM	11.5 volts min.	

STEP 4: POWER SUPPLY TO THE STARTER RELAY <input checked="" type="checkbox"/> Remove the starter relay <input checked="" type="checkbox"/> Check power at the socket for starter relay pin "30" in the CJB (Central Junction Box) <input checked="" type="checkbox"/> This is unswitched power, key can be on or off		
TOOL	SPECIFICATION	READING
DVOM	11.5 volts min.	
<input checked="" type="checkbox"/> If voltage is below specification, check power at fuse "113" in the CJB		

STEP 5: STARTER RELAY ACTIVATION TEST <input checked="" type="checkbox"/> Remove the starter relay <input checked="" type="checkbox"/> Check power at the socket for starter relay pin "85" in the CJB <input checked="" type="checkbox"/> Use the socket for starter relay pin "86" as the ground <input checked="" type="checkbox"/> The key must be in the start position when taking this reading		
TOOL	SPECIFICATION	READING
DVOM	10 volts min.	
<input checked="" type="checkbox"/> If voltage is below spec, check power at fuse "31" in the CJB <input checked="" type="checkbox"/> Also check the ground circuit for pin "86"		

**STEP 6: BYPASS THE STARTER RELAY**

- Connect a remote start button to the sockets for starter relay pins "30" and "87" in the CJB
- Use the remote start button to engage the starter
  - If the starter engages, replace the starter relay in the CJB
  - If the starter does not engage, proceed to the next step

**STEP 7: VERIFY SIGNAL TO THE STARTER**  Check the voltage at the "S" terminal on the starter

- The key must be in the start position when taking this reading

TOOL	SPECIFICATION	READING
DVOM	10 volts min.	

- If voltage is not within spec, repair the circuit between the starter relay pin "87" and the starter "S" terminal
- If voltage is within spec, replace the starter