

## **Cranking Circuit Voltage-Drop Test**

Meets NATEF Task: (A6-C-2) Perform starter circuit voltage drop; determine necessary action. (P-1)

Year					
	VIN	Evaluation:	4 3	3 2	1
he digital multimete	r to DC volts.				
test leads. When the cranked, the meter w	e meter leads are connect will display the difference	ed to two locations and the	he er	ngine	
	em or the fuel injection s	ystem to keep the engine	fron	n	
k the engine and obs	serve the voltmeter.				
the positive cable fr	om the battery post to the	e solenoid = volts.			
	n the "B" battery post an	d the "M" (motor) termir	nal =		
<b>RESULTS:</b>	ALL OK	NOT ALL OK			
+ LEAD + VOLTMETER	BATTERY + LEAD V3 - LEAD	- LEAD (BLACK)			
	HINT: A voltmeter test leads. When the cranked, the meter w This difference is ca able the ignition syste ing. hk the engine and obs the positive cable fr the solenoid betwee volts. RESULTS:	test leads. When the meter leads are connect cranked, the meter will display the difference This difference is called the voltage drop. the ignition system or the fuel injection string. The the engine and observe the voltmeter. The positive cable from the battery post to the the solenoid between the "B" battery post an volts. <b>RESULTS:</b> ALL OK	HINT: A voltmeter measures the difference in electrical pressure bet test leads. When the meter leads are connected to two locations and t cranked, the meter will display the difference in voltage between the t This difference is called the voltage drop. the ignition system or the fuel injection system to keep the engine ing. the engine and observe the voltmeter. the positive cable from the battery post to the solenoid = volts the solenoid between the "B" battery post and the "M" (motor) termin volts. RESULTS:ALL OKNOT ALL OK	HINT: A voltmeter measures the difference in electrical pressure between test leads. When the meter leads are connected to two locations and the er cranked, the meter will display the difference in voltage between the two p This difference is called the voltage drop. the ignition system or the fuel injection system to keep the engine from ing. the engine and observe the voltmeter. the positive cable from the battery post to the solenoid = volts. the solenoid between the "B" battery post and the "M" (motor) terminal = volts. RESULTS:ALL OKNOT ALL OK	HINT: A voltmeter measures the difference in electrical pressure between the test leads. When the meter leads are connected to two locations and the engine cranked, the meter will display the difference in voltage between the two points This difference is called the voltage drop. this difference is called the voltage drop. the engine and observe the fuel injection system to keep the engine from ing. the positive cable from the battery post to the solenoid = volts. the solenoid between the "B" battery post and the "M" (motor) terminal = volts. <b>RESULTS:</b> ALL OKNOT ALL OK (2) - LEAD (BLACK) - LEAD (B

**6.** Based on the test results, what is the necessary action?