



Charging Circuit Voltage Drop

Meets ASE Task: A6 – D-4 – P-1

Name:		Date:	Time on Task:	
Make/Model/Year:		VIN:		
Evaluation (E	nter number from 4, 3, 2, 1) :			
1 .	Check service information for specified procedures and voltage drop specifications of the charging circuit.			
2.	Connect one test lead of a digital multimeter set to read DC volts to the alternator output terminal and the positive (+) terminal of the battery.			
3.	Start the engine and run to 2,000 RPM (fast idle).			
4.	Turn on the headlights to force the alternator to charge the battery.			
5.	The voltage drop reading should not exceed 0.40 volt.			
		Itage drop of the <i>insulated</i> (power side) of the charging circuit (between the alternator and the positive (+) terminal of the battery).		
	ОК 🗌 NOT ОК 📃			
6.	• • • • •	eads to the case of the	perating the engine at a fast idle with alternator and the negative (-) terminal tes a poor alternator ground.	
	= the voltage drop of the <i>gr</i> alternator and the negative (-) ter		nator (between the rear housing of the	
	ОК NOT ОК			
7.	Based on the test results, what is th	e needed action?		
	DATTE	RY ENGINE AT	2,000 лим.	

