AC Voltage from the Alternator

Meets ASE Task: (A6-D-2) Diagnose charging system for the cause of undercharge, nocharge, and overcharge conditions. (P-1)

Name	Date	Time on Task
Make/Model/Year	VIN	Evaluation: 4 3 2 1
	ctify all AC voltage into DC voltage	e. It is the purpose of the rectifier age.
2. Start the engine an	nd operate at 2,000 RPM (fast idl	le).
3. Connect the voltm battery.	neter leads to the positive (+) and	I negative (-) battery terminals of the
4. Turn on the headl	ights to provide an electrical load	d on the alternator.
5. AC volts at the ba	nttery = OK NO	Т ОК
6. Repeat the same t of the alternator.	est, but this time touch the red vo	oltmeter lead to the output terminal
AC volts at t	he alternator = OK	NOT OK
Was the read	ling higher at the alternator?	
YES N	NO WHY?	
	the diodes are good, the voltmeter the reading is over 0.5 volt AC, the	r should read <i>less</i> than 0.4 volt AC. he rectifier diodes are defective.
NOT	E: This test will <i>not</i> test for a def	fective diode trio.