Objective: To familiarize student with the diagnosis of a typical charging system problem.

Procedure: Diagnose charging system failure and record information below. Student must be time efficient in all activities and must not exceed 2 times flat rate.

Vehicle: _______________________________________________________

Complaint: _______________________________________________________

- Inspect charging system output and record. ________ volts _______ amps
- Measure and record AC ripple under load. ___________________________
- Is voltage regulator internal or external? _____________________________
- Measure and record voltage drop from positive side of charging system to battery. ________________________________________________
- Measure and record voltage drop from ground side of charging system to battery. ________________________________________________
- Inspect and identify ALL terminals hooked to alternator. Describe what each wire’s purpose is. __________________________________________
- Record root cause of charging system failure and repairs required. __________________________________________
- Record diagnostic methods used to determine failed component. __________________________________________