

# Charging System Troubleshooting (Model 2816/2816N)

AT2816: Troubleshooting Exercise "Charger Circuit"

To use the Ohmmeter you must disconnect power from the circuit, to do this click on either battery post. To close/open an individual connector, click on the connector on screen.

LOAD TESTER  
0 0.00  
AMPS VOLTS

Hot at All times  
FUSE

Start On Off

Generator Turn On Signal  
SCAN TOOL FUNCTION  
GEN-L Terminal ON  
PCM Ground

CHASSIS SYSTEM GROUND

BATT  
Stator  
Rectifier Bridge  
Solid State Regulator  
Field (Rotor)  
GENERATOR

Starter Relay

10 9 8 7 6 5 4 3 2 1

SELECT TYPE OF FAULT :  
 OPEN OR LOW BATTERY  
 HIGH RESISTANCE  
 SHORT TO GROUND  
 SHORT TO VOLTAGE  
 SHORTED OR BAD BATTERY  
 BAD GENERATOR

SELECT LOCATION OF FAULT :  
Click on the number to select location of fault

O.K.

A fault has been inserted into the Charger circuit. Using the meter to troubleshoot the circuit, find and identify the fault.  
Click on the 'OK' button after selecting fault location and type of fault.

The Charging System Troubleshooting Trainer is a software program based on a Charging System and deals with the basic concepts of troubleshooting those automotive components. This program can operate in Random Mode, where the faults are selected randomly for each circuit chosen, or the instructor can select faults in various circuits to be activated as each student runs the program.

## Features:

- Realistic operation of charging system.
- Built-in DVOM and Load Tester.
- Student performance is stored in Central Records or on a student USB drive as the student proceeds through the program.
- Instructor uses Instructor Management Program (IMP) to create student record, and assigns ID number and password for student login.
- Visual reinforcement of circuit behavior.
- Network Version Available - model 2816N

## Activities Include:

- Troubleshooting section that can insert 19 possible faults into charging circuits for diagnosis in Training or Advance Mode.

12290 Chandler Drive  
Walton, Ky 41094

Sales@atechtraining.com  
ATechTraining.com

1-888-738-9924

