



(SCHOOL NAME HERE)

NAME \_\_\_\_\_

AUTOMOTIVE TECHNOLOGY

**TITLE: Brake Stoplight System**

TASK TYPE	NATEF TASK NUMBER	ACTION
Primary	NATEF Automotive Repair Task A5-E-5	Check operation of brake stoplight system. Determine necessary action.
Secondary	NATEF Automotive Repair Task A6-A-2	Identify and interpret electrical/electronic system concern. Determine necessary action.
Secondary	NATEF Automotive Repair Task A6-A-13	Inspect and test fusible links, circuit breakers, and fuses. Determine necessary action.
Secondary	NATEF Automotive Repair Task A6-A-14	Inspect and test switches, connectors, relays, solenoid solid state devices, and wires of electrical/electronic circuits. Determine necessary action.
Secondary	NATEF Automotive Repair Task A6-E-1	Diagnose the cause of brighter than normal, intermittent, dim, or no light operation. Determine necessary action.

**PURPOSE:** To develop through repetition, a mastery of diagnosing electrical faults in a typical brake stoplight circuit.

**ACTIVITY:** Using the Automotive Electrical Diagnostic Trainer supplied by United Concept Trainers, have your instructor install a "fault(s)". Determine fault(s) location with instructor approved electrical diagnostic tools. Record your diagnosis and conclusions below:

1 <sup>st</sup> fault activity Circuit symptom _____ fault location _____ diagnosis _____
2 <sup>nd</sup> fault activity Circuit symptom _____ fault location _____ diagnosis _____
3 <sup>rd</sup> fault activity Circuit symptom _____ fault location _____ diagnosis _____
4 <sup>th</sup> fault activity Circuit symptom _____ fault location _____ diagnosis _____
5 <sup>th</sup> fault activity Circuit symptom _____ fault location _____ diagnosis _____
6 <sup>th</sup> fault activity Circuit symptom _____ fault location _____ diagnosis _____

**Results:** Based on the above activity, what can you determine from diagnosing faulty brake stoplight circuits?

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