

ELECTRICAL SYSTEMS

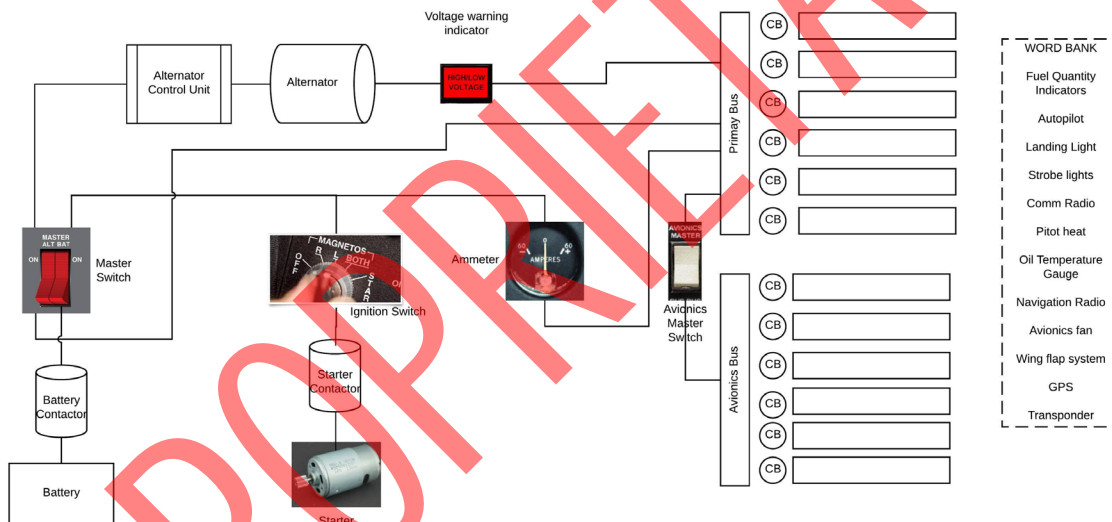


THE ELECTRICAL SYSTEM

Name _____

Class _____

Directions: Use the airplane electrical diagram below to help you complete this activity. For each item listed, explain its role and function within the airplane's electrical system.



- WORD BANK
- Fuel Quantity Indicators
 - Autopilot
 - Landing Light
 - Strobe lights
 - Comm Radio
 - Pitot heat
 - Oil Temperature Gauge
 - Navigation Radio
 - Avionics fan
 - Wing flap system
 - GPS
 - Transponder

- Using the word bank, assign the different types of avionics equipment to either the primary or avionics bus.
- For each of the following electrical components, explain its function and operation within the electrical system.

Battery -

Master Switch/Avionics Master Switch -



Ammeter -

Alternator -

Alternator Control Unit -

Circuit Breaker -

Primary/Avionics Bus -

Starter -

Battery/Starter Contactor -

PROPRIETARY

3. Based on what you have learned, draw a basic electrical circuit that incorporates:

- a. battery,
- b. a master switch that controls a device found on the primary bus,
- c. and an avionics switch that controls a device found on the avionics bus. Be sure this circuit is isolated from the primary bus to protect the avionics.

NOTE: You can just draw a simple diagram like the circuits you made in this lesson. For example:

