

of the generator.

Voltage Regulator

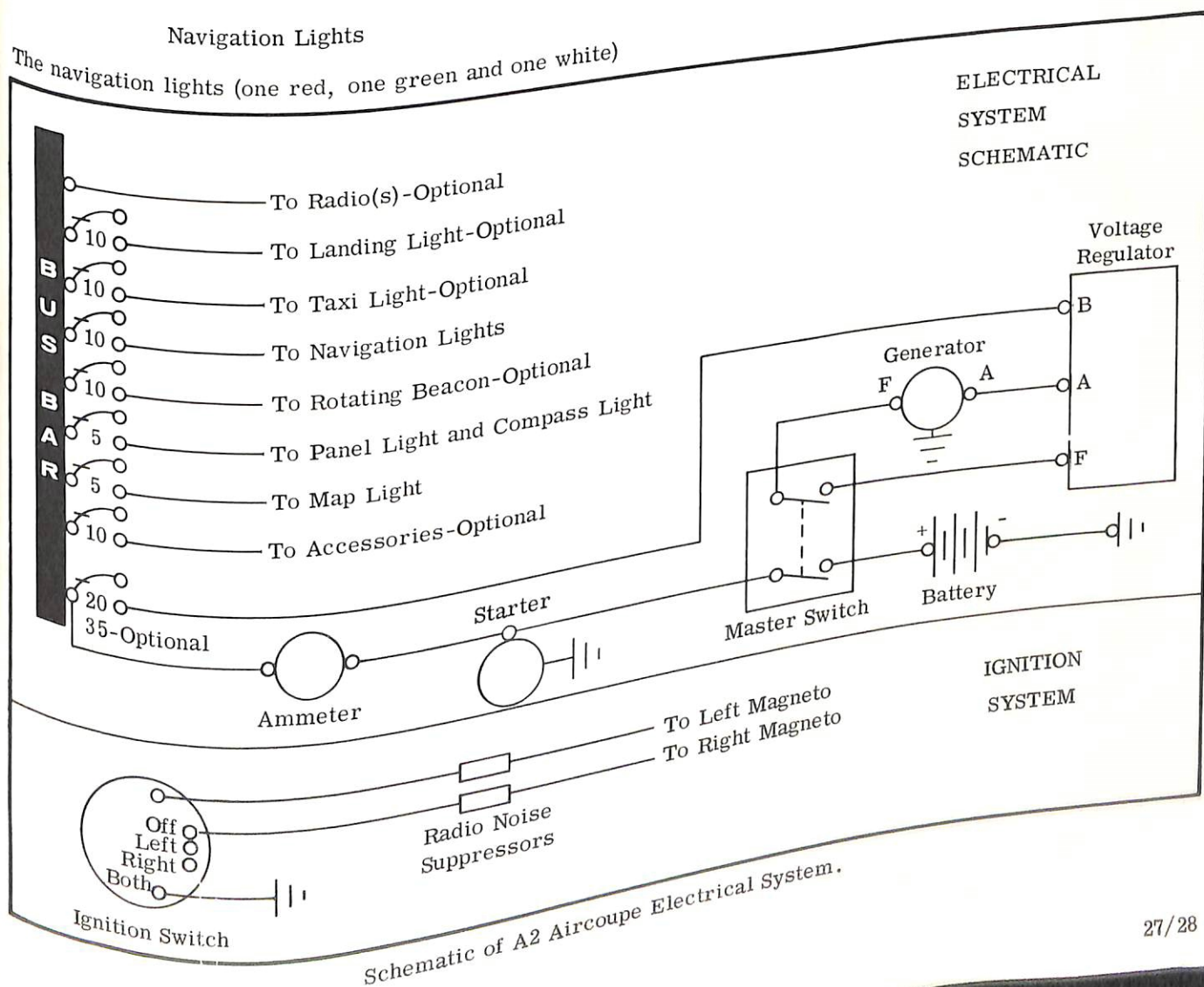
The voltage regulator is located on the firewall. The regulator controls the amount of current in the generator field winding to correctly charge the battery. This unit will automatically reduce the charging rate as the battery becomes fully charged. The charging rate with a fully charged battery should be about 2 amperes. The generator should never charge over the maximum rate and should reduce to the 2 ampere rate in 2 hours or less of operation at cruising speeds, depending upon the condition of the battery. If charging does not reduce within 2 hours, it is an indication of a malfunctioning unit.

Ammeter

The ammeter is calibrated to indicate charge or discharge of the battery. No special maintenance is required except to check to see all connections are snug and properly taped. The instrument can be removed by disconnecting all wiring.

Navigation Lights

The navigation lights (one red, one green and one white)



are located on the wing tips and tail. To replace the wing tip lights, remove the screw and cover plate there by exposing the bulb. Replace the bulb and reinstall the coverplate and lens. To replace the tail light, remove the lens and replace the bulb.

Circuit Breaker Switches

All switches used in the Aircoupe are of the circuit breaker type. The switches will automatically trip themselves if too much electrical current passes through them. This eliminates the need for fuses on electrical wiring.

Wire Assembly

Where major assemblies can be removed from the Aircoupe (such as wings and stinger), quick disconnectors are incorporated.

At each 100-hour inspection, the complete system should be checked for defective bonding, broken wires, loose clamping, chafed spots, or loose connections.