



Maintenance Instructions for the Jasco Alternator System

Compared to the best generator, the **Jasco** Alternator is lighter, more reliable, delivers more power, and requires less maintenance. In addition, you can extend the life of your **Jasco** charging systems by following these basic maintenance instructions.

1. Inspect ram air inlet for obstructions prior to flight as part of your walk around.
2. Remove gear driven alternators every **250** hours and inspect rubber drive gear bushings for alignment, wear, or deformity. If damage is discovered, these inexpensive parts can be purchased from **Skytronics** to extend the life of your charging system. Install new bushings in the reverse order of removal. Torque nut P/N AN320-5 or nut P/N 5239 to 15-20 ft. lbs.
3. Minor adjustment of system charging and voltage can be accomplished by adjusting the regulator variable resistor, located under the white protective cap on your **Jasco** regulator. The variable resistor is very sensitive and requires only a slight adjustment to bring system voltage to required levels. Your **Jasco** charging system is factory set, and should require no adjustment out of the box.
4. For abnormal operations including blown circuit breakers, failed fuses, erratic charging, no output or over voltage problems, contact the **Skytronics Inc.** service department at **1-800-421-6846**. We offer **free** factory evaluation including bench check of both alternator and controller. In addition, our factory overhaul of your **Jasco** charging system carries the same warranty as a new system. **Skytronics, Inc.** is the only factory authorized repair station for your **Jasco** charging system, accept no substitute.
5. To ensure normal operation of your **Jasco** Alternator and Controller:
Upon **1000 hours** of operation it is recommended to return your units to the factory for a complete inspection, testing and/or overhaul.

Skytronics is the only **FAA Approved** facility for repairs and/or overhauls of the **Jasco** Alternator Systems.

HELICOPTER APPLICATION

ROUTE AIR COOLING DUCT TO COOLING SHROUD: SUPPORT DUCT TO PREVENT OBSTRUCTION TO AIR FLOW.

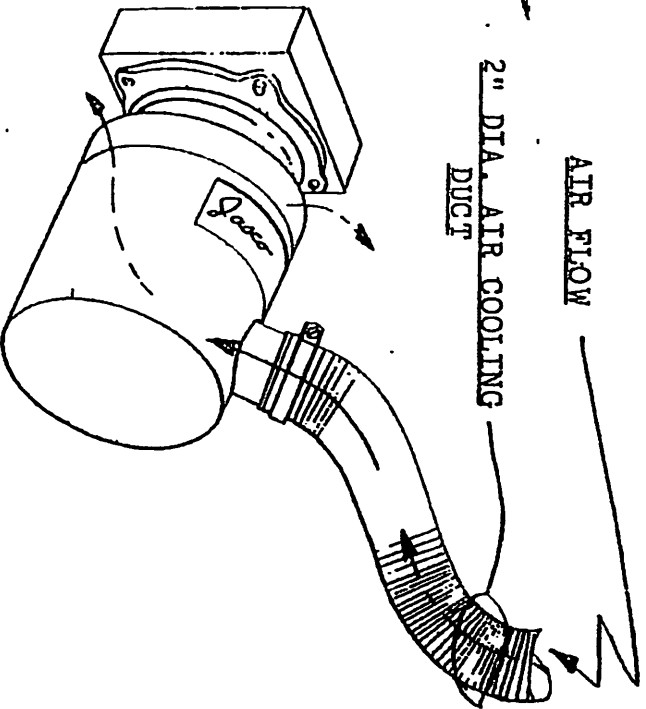
FIXED WING APPLICATION

ROUTE RAM AIR COOLING DUCT TO RAM AIR COOLING INLET: SUPPORT DUCT TO PREVENT OBSTRUCTION TO AIR FLOW.

COOLING INLET SHOULD BE EXTERNAL TO AIRCRAFT ENGINE COMPARTMENT AIR. IT IS RECOMMENDED TO PROVIDE A SEPARATE AIR SCOOP INLET TO RAM AIR COOLING DUCT. (DO NOT CONNECT TO HEATER BOX.)

CAUTION

DO NOT OPERATE ALTERNATOR WITHOUT SUPPLYING ADEQUATE COOLING AIR TO THE ALTERNATOR. OPERATING ALTERNATOR WITHOUT ADEQUATE COOLING WILL DAMAGE ALTERNATOR. OPERATION OF ALTERNATOR WITHOUT ADEQUATE COOLING VOIDS WARRANTY.



TYPICAL COOLING FOR JASCO ALTERNATOR



KYTRONICS, INC.

EL SEGUNDO, CALIF.



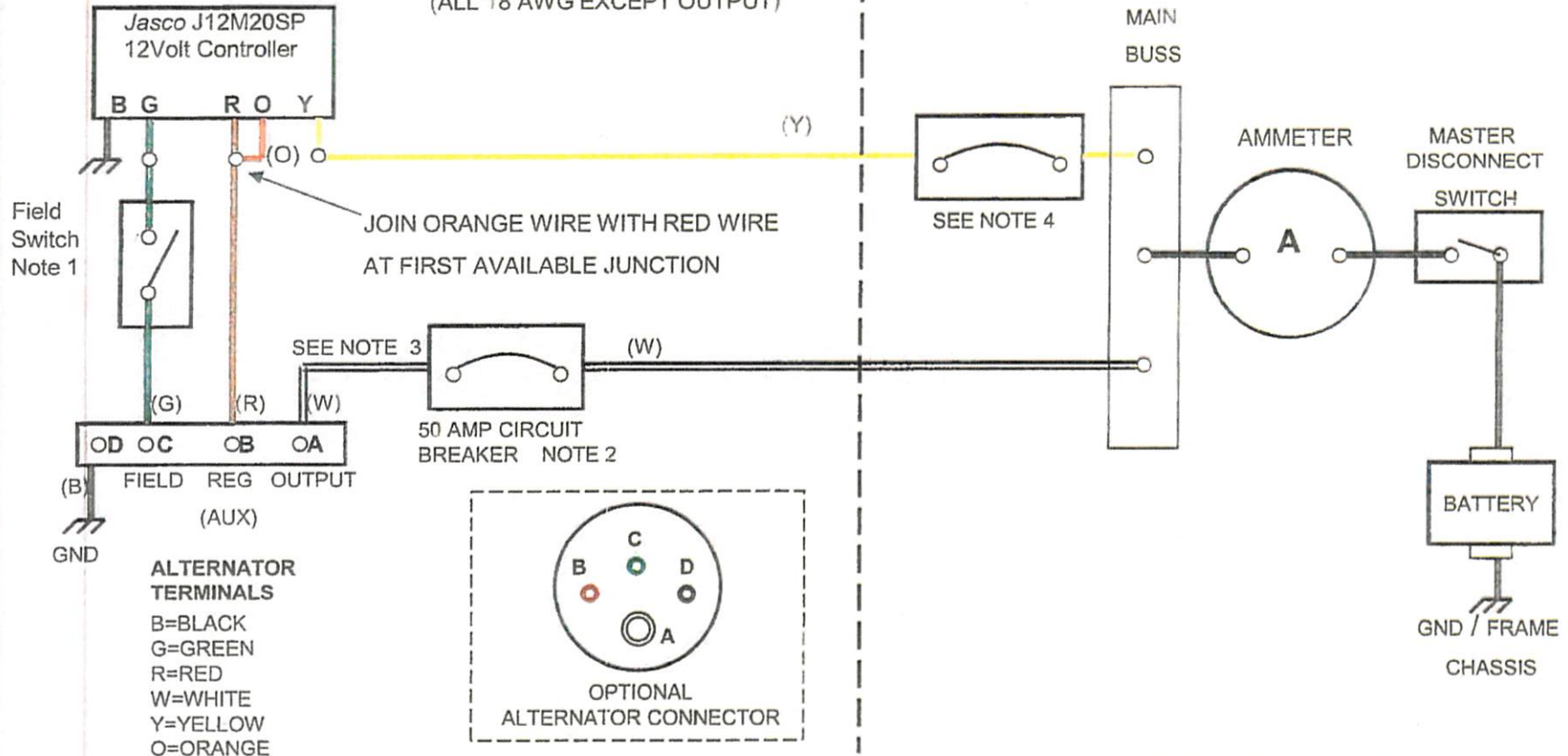
| | | | | |
|---|---|----------|----------|-----|
| MATERIAL | DATE | 12/22/78 | DWN. BY | HP |
| SPEC. | SCALE | | APPR. BY | JES |
| FINISH | DIMENSION TOLERANCE ± .005 UNLESS OTHERWISE SPECIFIED | | | |
| RECOMMENDED COOLING FOR JASCO ALTERNATOR INSTALLATION. | | | | |

DWG. NO. 5016

12 VOLT

CIRCUIT REQUIRED FOR INSTALLATION
(ALL 18 AWG EXCEPT OUTPUT)

TYPICAL EXISTING CIRCUIT
(NOTE 3 REQUIRED FOR 50 AMP CAPACITY)



NOTE: 1 COMBINATION FIELD SWITCH & 5 AMP CIRCUIT BREAKER NOT SUPPLIED. POTTER-BRUMFIELD P/N W31X2M1G-5 RECOMMENDED

BASIC 12 VOLT WIRING DIAGRAM
INSTALLATION WIRING FOR 12 VOLT NEG. GND. ALTERNATOR SHEET 1 OF 2

12 VOLT

CLARIFICATION OF WIRING DIAGRAM FOR J12M20SP

Note 2: 50 AMP CIRCUIT BREAKER NOT SUPPLIED.

POTTER-BRUMFIELD P/N W23X1A1G-50 RECOMMENDED.

Note 3: FOR SINGLE WIRE ROUTING USE 8 AWG PER MIL-W-5086. FOR CONDUIT OR BUNDLE ROUTING USE 6 AWG, MIL-W-5086 OR EQUAL AIRCRAFT QUALITY WIRE.

Note 4: IN COMPLIANCE WITH FAA REGULATIONS, REGULATOR CIRCUIT IS TO BE PROTECTED WITH CIRCUIT BREAKER OR FUSE LOCATED IN CLOSE PROXIMITY TO BUSS. FUSE OR BREAKER SIZE IN ACCORDANCE WITH THE FOLLOWING:

| WIRE SIZE | CIRCUIT BREAKER | FUSE |
|-----------|-----------------|--------|
| 22 GA | 5 AMP | 5 AMP |
| 20 GA | 7.5 AMP | 5 AMP |
| 18 GA | 10 AMP | 10 AMP |
| 16 GA | 15 AMP | 10 AMP |

CIRCUIT BREAKER OR FUSE ASSEMBLY NOT SUPPLIED.

Note 5: NEW VOLTAGE REGULATOR P/N J12M20SP INCORPORATES THE VOLTAGE PROTECTOR SVP-3. THUS, THE J12M20SP SUPERCEEDS AND OBSOLETES BOTH THE J12M20 AND THE SVP-3 UNITS.

BASIC 12 VOLT WIRING DIAGRAM

INSTALLATION WIRING FOR 12 VOLT NEG. GND. ALTERNATOR SHEET 2 OF 2