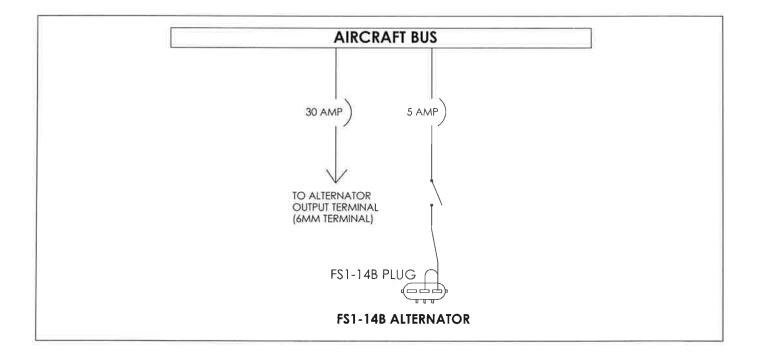
FS1-14B INSTALLATION INSTRUCTIONS

READ AND THROUGHLY UNDERSTAND ALL OF THE INSTALLATION INSTRUCTIONS BEFORE BEGINNING INSTALLATION OF THIS KIT.

- 1. Clear and clean the surface of the engine vacuum pad base where the FS1-14B is to be mounted. Retain the 4 sets of washers and nuts.
- 2. Mount the FS1-14B with attached gear assembly and supplied gasket # MS9134-01to the engine.
- 3. Ensure that alternator drive gear meshes with the AND 20000 gear without forcing or binding.
- 4. Ensure the FS1-14B base mounts flush to the engine mount area.
- 5. Install 4 flat washers, the new lock washers and the nuts that were removed in step 1.
- 6. Hand tighten nuts evenly and check that the alternator fits flush against the pad without any force or binding.
- 7. Tighten the mounting nuts to the torque specified by the engine manufacturer.
- 8. Refer to the Wiring Diagram and install output (B+) wire and torque to 50 inch Lbs. Ensure that the output wire is of sufficient size to carry more than 30-Amps and that it is connected to the aircraft buss through a 30-Amp circuit breaker. Refer to AC43.13-1B for acceptable methods, techniques and practices if needed. 9. Wire the Enable/ Field plug as shown on the installation drawing. THE ENABLE WIRE MUST BE WIRED TO A 5-AMP MAX CIRCUIT BREAKER.
- 10. Check the security of all wiring and ensure that there is no interference with any control movement.
- 11. Start the engine and check for any oil leaks or abnormal sounds. Stop the engine immediately if any are noticed and correct the condition before proceeding.
- 12. With engine running at 1700 RPM measure the bus voltage with a calibrated volt meter to verify bus voltage is 14.2 +/- .3 volts. Turn on Landing Light and observe that the voltage remains at 14.2 +/- .3 volts.
- 13. Complete: Log Book Entries. FS1-14B Weight = 6.0 LBS.



Operating Instructions

(FS1-14B)

Basics:

- 1. A fully charged battery reads approximately 12.8 volts.
- 2. The flyS.A.F.E. FS1-14B alternator charges at approximately 14.2 volts.
- 3. Vacuum driven alternators turn at a lower RPM than those driven by belt. Expect the FS1-14B's power production to start at approximately 1200 RPM.
- 4. Ensure electrical loads do not exceed 30A at cruise rpm
- 5. Monitor electrical loads and bus voltage

Maintenance Instructions

Annual Inspections:

- 1. Visually inspect for damage & clean the surface.
- 2. Check regulated voltage is within limits 14.2 +/- .3 Volts.

1000-Hour Intervals:

- 1. Repeat: Annual / 100 Hour Inspection
- 2. Remove Field Brush assembly and inspect brushes for excess wear. Replace Brush assembly if brushes extend less than .250" from edge of brush holder.
- 3. Replace shear coupling.