



**SERVICE INSTRUCTION SIM20-144**

**Date: September 2, 2022**

**SUBJECT:** MOONEY AIRCRAFT WITH KELLY AEROSPACE ELECTRIC AIR CONDITIONER SYSTEM INSTALLED [ CHAPTER 21 - ENVIRONMENTAL SYSTEMS]

**MODELS/ SN AFFECTED:** M20R S/N: 29-0113  
M20U S/N: 32-0007, 32-0011, 32-0012

**TIME OF COMPLIANCE:** **AS SOON AS PRACTICABLE**

**INTRODUCTION:** Mooney International Corporation suspects an aircraft voltage regulator failure is due to certain operating procedures found in the Kelly Aerospace Air Conditioner System AFMS. Mooney Engineering needs to have the listed aircraft review and operate the aircraft's air conditioner as stated in this Service Instruction and report back to Mooney the results after 10 hours of aircraft service.

**OPERATING PROCEDURES:**

**At Any Time:**

- Do not operate the Kelly electric air conditioner on just battery power.
- Running on external power with a GPU rated at 45A or higher is acceptable, however, the air conditioner must be shut off prior to removing external power. Example – Pre-cool the aircraft with the GPU and air conditioner on, shut the air conditioner off, remove external power, then perform engine starting procedures

**After Engine Startup:**

1. After the Alternator is turned on post engine startup, increase RPM to achieve about 28.5 volts.
2. Allow the ammeter on G1000 for the battery to decrease to minimum about -1 or -2 amp draw, or positive charge.
3. Turn on air conditioner as desired per the AFMS.
4. If RPM needs to be reduced below the above stated RPM for long periods of time, such as low idle or taxi, shutoff the air conditioner prior. Short periods of discharge are allowed.
5. Fill out the Inspection Report sheet on page 2 of this Service Instruction. Please be specific with your findings. Email to support@mooney.com or Fax to (830) 257-4635.

**WARRANTY:** N/A

**REFERENCE DATA:** 1. Kelly Aerospace Aircraft Flight Manual Supplement NC-17-036, Rev. A or later FAA Approved revision.

**PARTS LIST:** **Service Instruction Kit - N/A**



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**MOONEY INTERNATIONAL CORPORATION**  
KERRVILLE, TEXAS 78028 - FAX 830-257-4635

SERVICE (BULLETIN) (INSTRUCTION) NO. SIM20-144 HAS BEEN COMPLIED WITH ON AIRCRAFT MODEL \_\_\_\_\_ SERIAL NUMBER \_\_\_\_\_

Tach. Time: \_\_\_\_\_ N-Number \_\_\_\_\_ (Reg. No.)  
 Owner: \_\_\_\_\_ Date of Compliance: \_\_\_\_\_  
 \_\_\_\_\_ Complied By: \_\_\_\_\_  
 \_\_\_\_\_

Inspection Report: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Form 07-0001

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**MOONEY INTERNATIONAL CORPORATION**  
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**SEND ALL COMPLIANCE CARDS TO:**  
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