SUBJECT: Radio Noise Interference when Optional CD/MP3 Player Retrofit Kit is Installed

MODELS/ SN
M20R (OVATION): 29-0333 thru 29-TBA
M20TN (ACCLAIM): 31-0001 thru 31-TBA

TIME OF COMPLIANCE: At Owner’s Discretion

INTRODUCTION: There has been a reported instance, discovered in the field, of radio noise interference when the Optional CD/MP3 player Retrofit Kit (P/N 940167-501) is installed. This condition is corrected by removing the current 6-pin harness and switch assembly and replacing it with the new 12 pin harness and switch assembly per instructions of this service bulletin.

INSTRUCTIONS: Read entire procedures before beginning work.

1-1. Turn master switch - OFF
1-2. Remove tailcone access panels (LH & RH) and disconnect batteries.
1-3. Loosen top (2) screws mounting circuit breaker panel (refer to Figure M20-300-1).
1-4. Remove bottom (2) screws mounting circuit breaker panel to hinge assembly (refer to Figure M20-300-1). This will allow for lower portion of circuit breaker panel to be pulled outward to remove toggle switch.
1-5. Remove mounting hardware from toggle switch located on the Circuit Breaker Panel to Optional CD/MP3 Player wire harness (refer to Figure M20-300-1).

NOTE: It is permissible to remove air duct (if needed) to obtain adequate room when completing service bulletin procedure (refer to Figure M20-300-1).

1-6. From under RH dash remove/discard the toggle switch and harness assy from Optional CD/MP3 Player (refer to Figure M20-300-2).
1-7. Locate and remove wires from 6-pin receptacle (cap) (refer to Figure M20-300-2).
1-8. Install terminal pins to wires (if required) and insert into assigned pin locations on new receptacle (P/N RC12) provided in kit (P/N 940167-1) (refer to Figure M20-300-3).

NOTE: Only 10 of the 12 pins will be used, refer to Figure M20-300-3 for pin assignments.

1-9. Mount new switch (notch down) into circuit breaker panel with mounting hardware provided in kit (refer to Figure M20-300-1).
1-10. Route new harness assembly and secure harness using cable ties (service center supplied) as required. Plug new harness assembly into new receptacle (P/N RC12) (refer to Figure M20-300-3). Install air duct and tighten clamp(s) (if removed).

- CAUTION - Verify proper movement in the control wheel (Full Travel - Fore & Aft) when harness is secured into position with cable ties as required (refer to Figure M20-300-1).
1-11. Install bottom (2) screws mounting circuit breaker panel (refer to Figure M20-300-1).
1-12. Tighten upper (2) screw mounting circuit breaker panel (refer to Figure M20-300-1).
1-13. Connect batteries.
1-15. Replace tailcone access (LH & RH) panels.
1-17. Return aircraft to service.

WARRANTY: Mooney Airplane Company, Inc. will warrant labor approximately 2 hours when done in accordance with the procedures of this Service Bulletin for aircraft currently covered under the Mooney Airplane Company, Inc. factory warranty program.

REFERENCE DATA: MAC Service & Maintenance Manuals (applicable A/C)

PARTS LIST: Mooney Airplane Company, Inc., Parts Kit: M20-300-001

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<td>1</td>
<td>940167-1</td>
<td>HARNESS KIT</td>
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CHECK FOR ADEQUATE WIRE LENGTH WHEN CONTROL WHEEL IS PULLED/PUSHED AFTER REWORK IS COMPLETED.

LOOSEN SCREWS (2)

REMOVE SWITCH

DECAL & SWITCH

XM RADIO

C/D

NOTCH

REMOVE DUCT & CLAMP (IF REQUIRED) TO OBTAIN ADEQUATE ROOM TO WIRE HARNESS ASSY.

VIEW FROM UNDER DASH AREA

Figure SB M20-300-1 - View at Circuit Breaker Panel
Figure SB M20-300-2 - Current Wiring to Stereo/XM Radio Switch
Figure SB M2300-3 - Alternate Wiring Stereo/XM Radio Switch

940167-1 Harness Kit

AlTERNATE WIRING
STEREO/XM RADIO SWITCH