SUBJECT: MOONEY ULTRA INTERIOR DOOR HANDLE UPGRADE

MODELS/ SN AFFECTED: M20U OVATION ULTRA 32-0002 thru 32-0005

TIME OF COMPLIANCE: AS REQUIRED

INTRODUCTION: Mooney International Corporation has developed a new door handle design. This Service Instruction has been written in 2 Steps, for convenience. Step 1: How to remove and replace existing door handle with the new design. Step 2: Sending the door panels to the factory for repair and recover.

INSTRUCTIONS: Read entire procedures before beginning work.

STEP 1 - Install New Bellcrank and Handle Assembly

1.1. On Pilot and Co-Pilot side entrance doors, cover wing walk area with protective cover.

1.2. Open Pilot and Co-Pilot doors, remove interior door handle placard screws, and remove placard as shown in Figure SIM20-130-1.

1.3. Remove door handle pull screws and remove upper and lower interior door panel screws, keep for reassembly, remove panels from door as shown in Figure SIM20-130-1.

1.4. Remove cabin door handle cover plate, with (3) screws and (3) washers, and 1 outer bushing (plastic), keep for re-assembly.

1.5. Locate and remove 3 clevis attachment points to bellcrank, cotterpins and washers, keep clevis pins 1 and 2 and washers for reassembly. Clevis pin #3 will require a new one found in the kit.

1.6. Install new bushing LFI-0405-08 into bellcrank and install into door. Due to tight clearance, it may be helpful to temporarily install clevis pin #3 into bellcrank hole and temporarily secure with a cotter pin before installing into position. Install #1 and #2 clevis pins, washers and new cotter pins. On # 3 clevis, carefully pull temporary cotter pin out, slide clevis pin out far enough to install clevis, push #3 clevis pin thru and add washer, secure with new cotter pin. See figure SIM20-130-2.

1.7. Re-install cabin door handle cover plate and 1 bushing onto bellcrank shaft, and secure with (3) screws and (3) washers, from dis-assembly.

1.8. Before installing interior door panels, check adjustment of the latching mechanism. Make any necessary adjustments per the service and maintenance manual.

1.9. If sending interior door panels for re-upholstery at this time, Refer to Step 2.

1.10. If not sending interior door panels at this time, temporary install lower interior door panels, and mark where the cutout should be for bellcrank shaft to protrude thru panel.

1.11. Carefully cutout a hole thru panel for bellcrank arm to protrude, see figure SIM20-130-2.

1.12. Install Upper and Lower interior door panels, use loctite 222MS on screws and secure panels as shown in Figure SIM20-130-1.

1.13. Slide new door handle 310389-1 onto bellcrank shaft, add loctite 222 (Purple) or 242 (Blue) to screw threads MS24694-C15 and secure door handle.

1.14. Install new placards SIM20-130-003 LH and SIM20-130-004 RH on existing metal door handle placard and mount back into position with existing screws to cover slot.

1.15. Add Placard p/n 150110-A1048B (LH) or 150110-A1049B (RH) to upper door panel.

1.16. Add Storm Window Stops: (This limits travel of storm window in the open position) a. Remove lower hinge screws, see Figure SIM20-130-2.
b. Add 320021-13 Stoppers to both lower hinges.
c. Secure with (2) new screws MS24693-S25 (use existing nut).

1.17. Return aircraft to service.
1.18. Procedure complete.

**STEP 2 - Send Interior Panel in to Mooney:**

2.1. Temporary install lower interior door panels, carefully cutout hole for bellcrank shaft to protrude thru panel, check fitment (hole centered) before sending to Mooney.
2.2. Call Mooney Service Parts 830.792.2901 for RMA and schedule repair - Allow approximately 1 week to recover panels and send back to you.
2.3. Package and Send both top and bottom panels to Mooney International Corporation “Attention Mooney Service Parts” to: 165 Al Mooney Road North, Kerrville, Texas 78028
2.4. Once door panels are returned from Mooney, test fit door panels, and install 130400-65 Trim Ring with RAS13270 adhesive in center of hole cutout. Install Upper and Lower interior door panels, use loctite 222MS on screws and secure panels as shown in Figure SIM20-130-1.
2.5. Slide new door handle 310389-1 onto bellcrank shaft, add loctite 222 (Purple) or 242 (Blue) to screw threads and secure.
2.6. Return aircraft to service.
2.7. Procedure complete.

**NOTE:**

Fill out compliance card and send by MAIL, FAX or EMAIL to Mooney International Corporation as indicated on the attached Compliance Card (Refer to Figure SIM20-130-4).

**WARRANTY:**

Mooney International Corporation will warrant labor 2.5 hours when work is completed in accordance with **STEP 1** procedures and 2 hours when work is completed in accordance with **STEP 2** procedures of this Service Instruction for aircraft currently covered under the Mooney International Corporation factory warranty program.

**REFERENCE DATA:**


**PARTS LIST: Service Instruction Kit SIM20-130-001**

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<td>2.</td>
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Shop Supplied: Loctite® 222MS
Shop Supplied: Adhesive RAS13270

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Figure SIM20-130-1 - EXISTING INTERIOR DOOR PANEL AND HANDLE ASSEMBLY

NOTE: DIAGRAM SHOWN IS FOR REFERENCE ONLY
SCREW LOCATIONS AND QUANTITY MAY DIFFER

ADD LOCTITE 222MS TO ALL INTERIOR DOOR PANEL SCREWS

OLD STYLE HANDLE
PILOT SIDE SHOWN
CO-PILOT OPPOSITE
ADD LOCTITE 222 (Purple)
ADD LOCTITE 242 (Blue)

NOTE:
* IN HANDLE KIT

Figure SIM20-130-2 - INTERIOR DOOR HANDLE MECHANISM AND STORM WINDOW
VIEW INSIDE OF DOOR

UPPER DOOR PANEL ASSY

UPPER & LOWER PANELS WITH NEW HANDLE

LOWER DOOR PANEL ASSY

Figure SIM20-130-3 - NEW INTERIOR DOOR PANELS
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Form 07-0001

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

SERVICE INSTRUCTION SIM20-130
Date: SEPTEMBER 20, 2018