



S.I. No. M20-38

Date: 12-6-76

**SERVICE INSTRUCTION**

**SUBJECT:** REPLACEMENT OF INSTRUMENT LIGHT  
CONTROL ASSY

**MODELS**

**AFFECTED:** M20C, Serial Numbers 20-1186 thru 20-1226  
M20F, Serial Numbers 22-1246, 22-1306 thru 22-1435  
M20J, Serial Numbers 24-0001 thru 24-0070

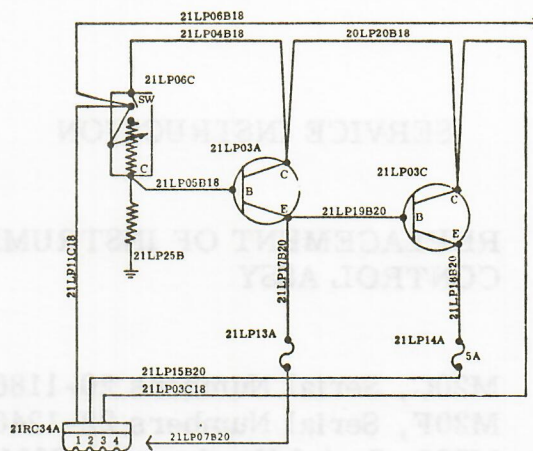
**TIME OF COMPLIANCE:** At owner's discretion.

**INTRODUCTION:** To provide more effective control of the instrument lighting it is recommended that the light control assy be reworked as described below.

**INSTRUCTIONS:** REPLACEMENT OF INSTRUMENT LIGHT CONTROL  
ASSY FOR M20C and M20F MODELS

1. Loosen glareshield and raise high enough to permit access to top of radio panels.
2. Loosen (R. H.) radio panel and pull out at top to provide access to rheostat and transistor bracket.
3. Disconnect plug and (2) knife disconnects from rheostat and transistor bracket.
4. Remove light control knob and nut attaching rheostat to radio panel.
5. Drill out (3) existing rivets holding transistor bracket to radio panel.
6. Add (2) countersunk holes to radio panel per Figure #1.
7. Install light control assy (800331-928) with (2) AN507-632R5 screws and reinstall rheostat and knob in radio panel per Figure #3.
8. Reconnect plug and (2) knife disconnects per S.I. M20-38-1 wiring schematic.
9. Reinstall radio panel and glareshield.

Instructions cont...

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WIRING SCHEMATIC - S.I. M20-38-1

REPLACEMENT OF INSTRUMENT LIGHT CONTROL  
ASSY FOR M20J MODELS

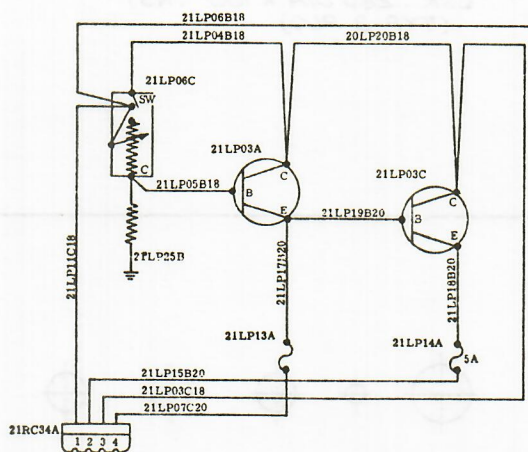
1. Loosen glareshield and raise high enough to permit access to top of radio panels.
2. Loosen (R. H.) radio panel and pull out at top to provide access to rheostat and transistor bracket.
3. Disconnect plug and knife disconnect from rheostat and transistor bracket.
4. Remove light control knob and nut attaching rheostat to radio panel.
5. On aircraft S/N 24-0001 thru 24-0040, drill out (2) existing rivets and remove transistor bracket. Drill out and countersink (2) existing holes and add (1) countersunk hole per Figure #2.
6. On aircraft S/N 24-0041 thru 24-0070 remove (2) screws holding transistor bracket to radio panel and add (1) countersunk hole per Figure #2.
7. Install light control assy (800331-927) with (3) AN507-632R5 screws and reinstall rheostat and knob in radio panel per Figure #4.
8. Reconnect plug and knife disconnect per S.I. M20-38-2 wiring schematic.
9. Reinstall radio panel and glareshield.



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Instructions cont...



WIRING SCHEMATIC - S.I. M20-38-2

	<u>Qty.</u>	<u>Part No.</u>	<u>Aircraft Applicability</u>
SERVICE INSTRUCTION KIT S.I. M20-38-1	1	800331-928	M20C M20F
SERVICE INSTRUCTION KIT S.I. M20-38-2	1	800331-927	M20J

**COMPLIANCE:** Make Log Book entry.

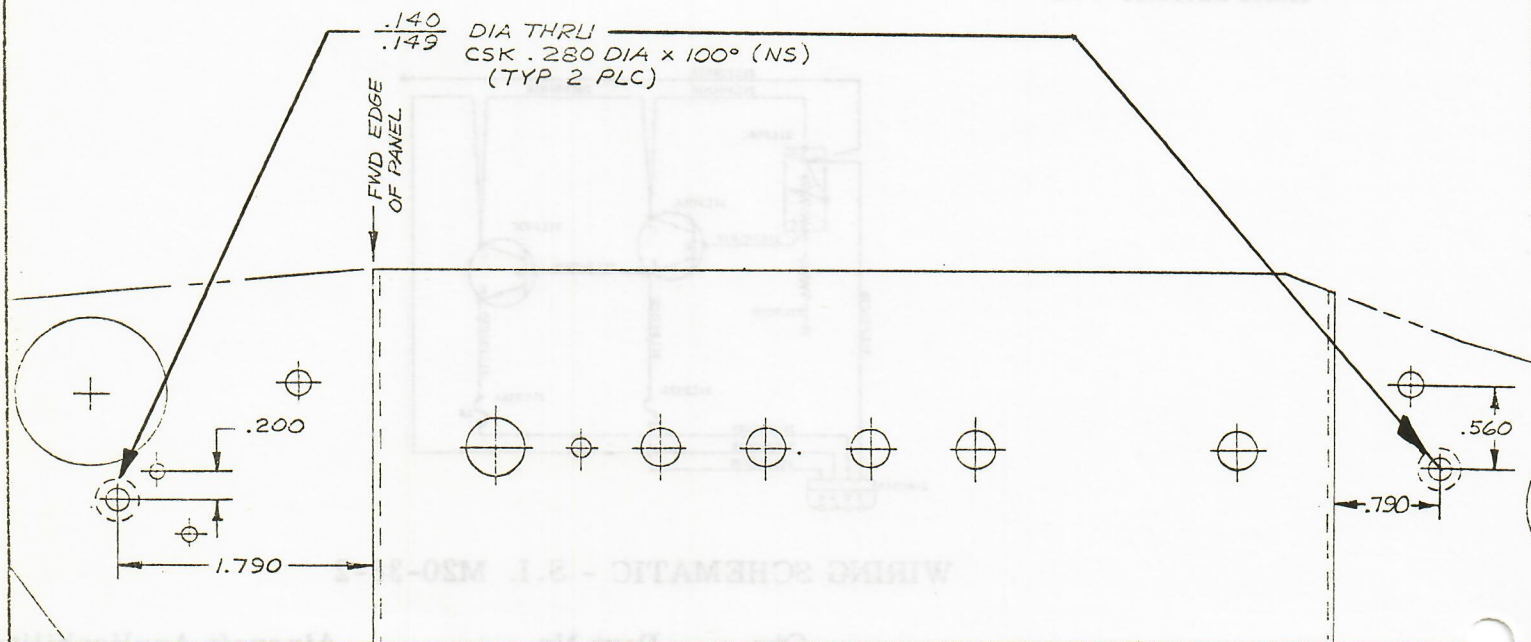
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FIGURE #1 (C &amp; F MODELS)

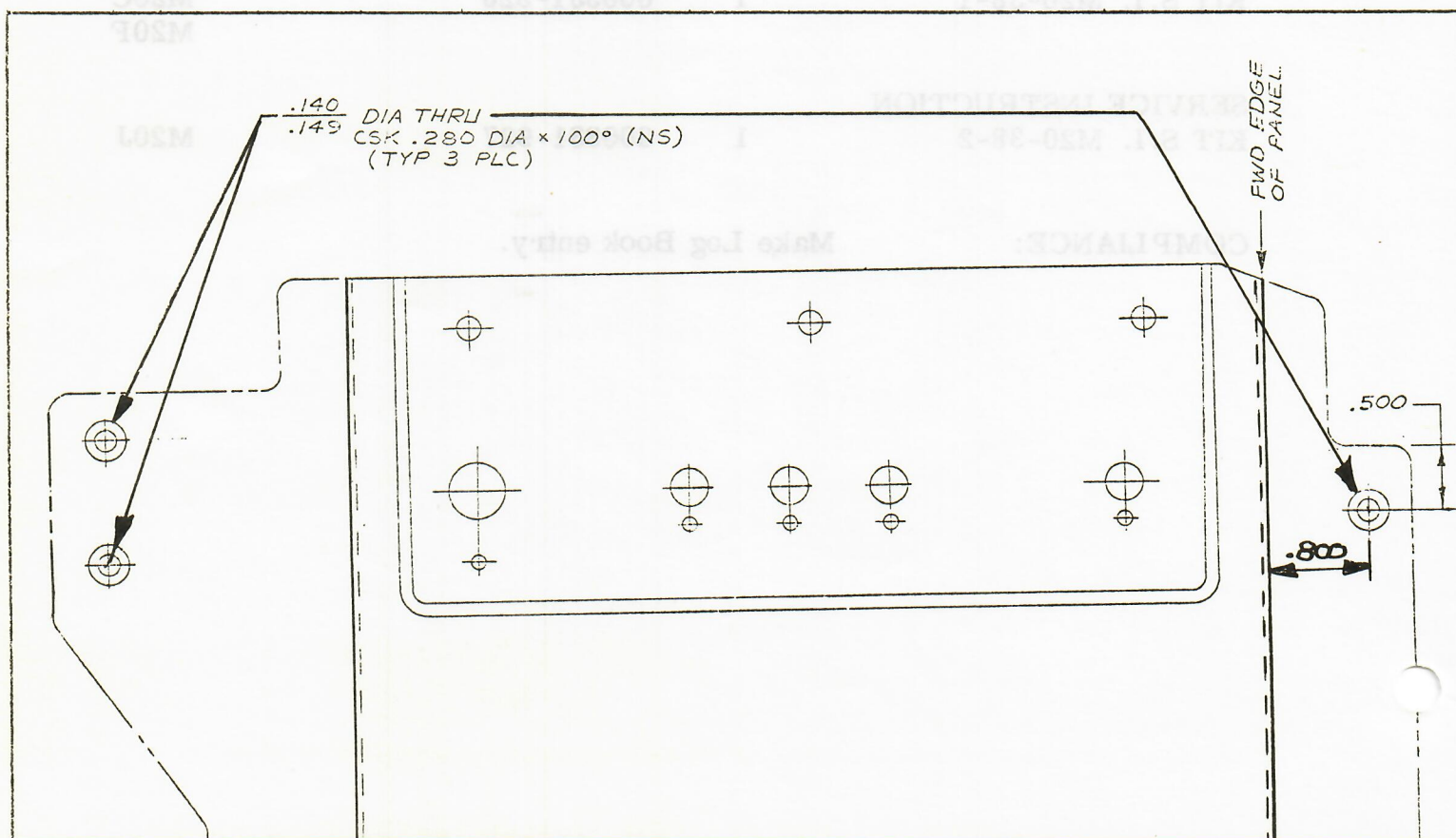


FIGURE #2 (J MODEL)



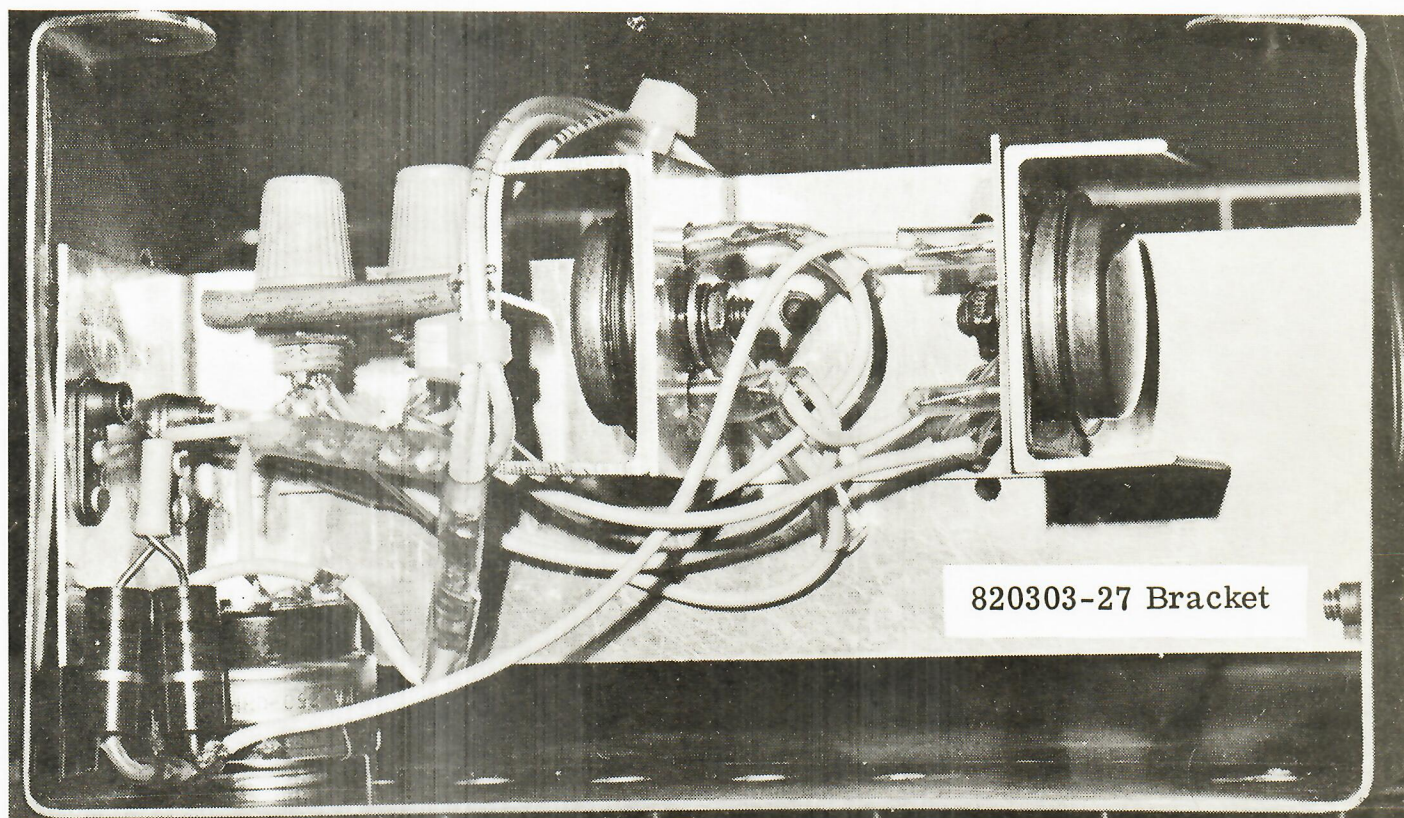


FIGURE #3  
(View showing installed S.I. Kit M20-38-1 on M20C and F Models)

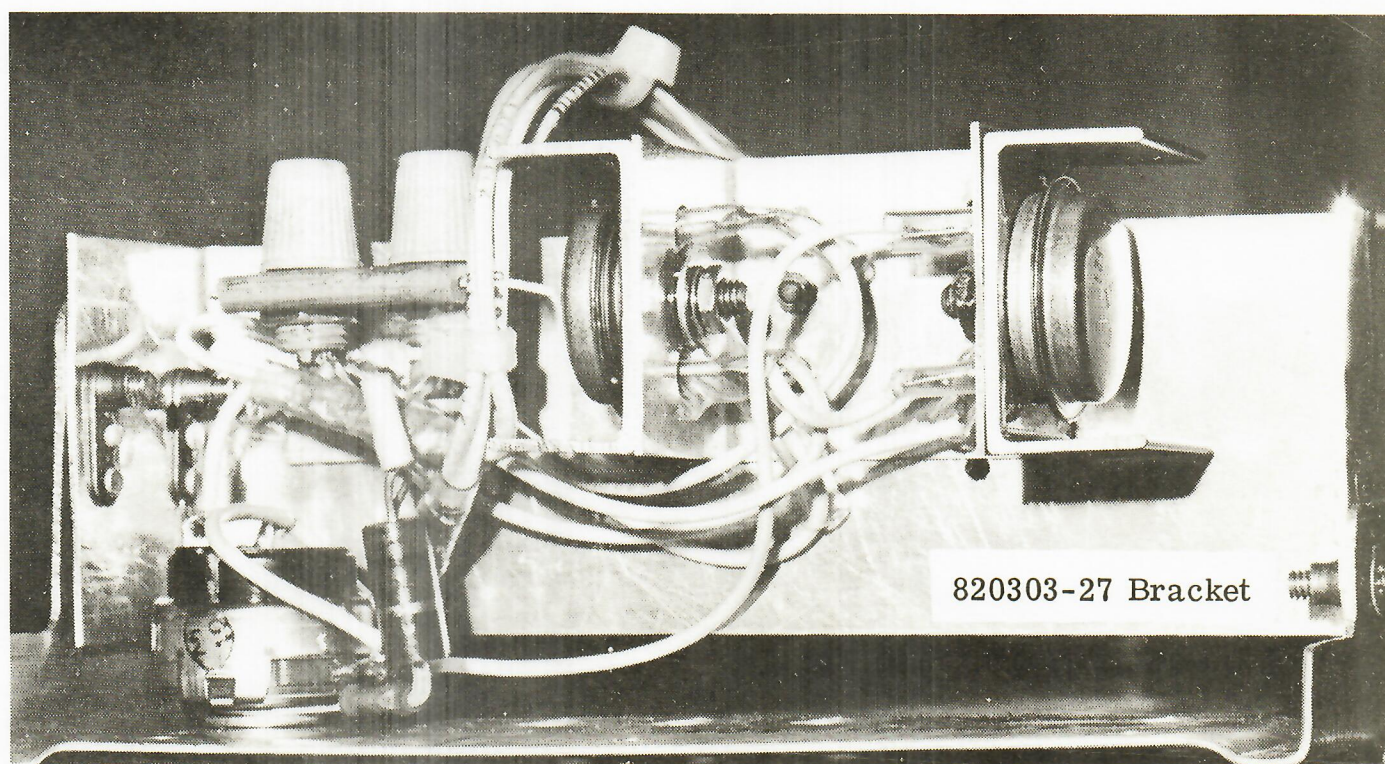


FIGURE #4  
(View showing installed S.I. Kit M20-38-2 on M20J Models)