



SERVICE BULLETIN

FUJI HEAVY INDUSTRIES LTD.

HEAD OFFICE

: SUBARU BLDG,

SHINJUKU, TOKYO, JAPAN

NO : FAS-050

DATE : March 15, 1971

1. SUBJECT : Improvement in Instrument Illumination.
2. AIRCRAFT AFFECTED : FA-200 Series Serial Nos. 1 thru 100.
3. PRIORITY : Optional.
4. REASON : In order to provide effective illumination that instrument can be easily seen during night.
5. DESCRIPTION : Instrument illumination light to be added and existing light location changed.
6. ACCOMPLISHMENT : Optional.
7. APPROVAL : JCAB Approval NO-TOKYO-012 March 1, 1971.
8. PARTS REQUIRED : The following parts are required to perform the rework.

PART NO.	PART NAME	QTY
322049	SPLICE	1
200-364136-001	SLIDE PLATE	1
200-364135-001	BRACKET	1
200-364134-001	SUPPORT PLATE ASSY	1
200-364133-001	ARM ASSY	1
200-364132-003	STOPPER	1

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8: PARTS REQUIRED : (cont.)

PART NO.	PART NAME	QTY
TY-15	TY-RAP	2
NAS679AOSW	NUT	4
NAS679AO6W	NUT	5
NAS43DD3-8	SPACER	1
NAS43DD3-30	SPACER	2
NAS43DD3-20	SPACER	1
NAS43DD1-8	SPACER	1
MS35206-250	SCREW	1
MS35206-249	SCREW	1
MS35206-248	SCREW	1
MS35206-247	SCREW	1
MS35206-233	SCREW	1
MS35206-230	SCREW	1
MS25027-1 or A-5305-1	LIGHT ASSY	1
MS24693-526	SCREW	2
L-17A20N	HARNESS	700 m/m X 1
L-16L20	HARNESS	700 m/m X 1
FVD1.25-M3	TERMINAL	3
F-0315-130020	INSULATION TUBE	2
F-0315-070020	INSULATION TUBE	1
AN960D8	WASHER	4
AN960D6	WASHER	6
AN960-6	WASHER	4

8. PARTS REQUIRED : (cont.)

PART NO.	PART NAME	QTY
AN935-6	WASHER	2.
AN3121-1816	LAMP	1

9. SPECIAL TOOL : None required.

10. WEIGHT AND BALANCE: Negligible.

11. REFERENCE : None.

12. MANHOUR REQUIRED : 18 manhours required.

13. DETAILED INSTRUCTION:

- a. Remove attaching nuts, and remove instrument cover (left) from instrument panel.
- b. Remove cover from fixed front canopy left side frame. Also remove simultaneously instrument light shown in figure 4, area H, and, with cover removed, separate instrument harness at the adjoining splice.
- c. Remove cover from sliding canopy left side rail.
- d. Remove front seat left side panel.
- e. Remove two attaching nutplates for instrument light that has been removed in the preceding step 2. (See figure 3).
- f. Drill two .379/.375 in diameter holes in structure as illustrated in figure 3, and install two nutplates.
- g. Drill a 6.4 mm diameter hole in panel removed in step 4, and install a grommet, MS35489-15. Also drill two .149/.139 in diameter holes in the panel. (See Figure 3.)
- h. Lead the instrument light harness removed in step 2 through the panel grommet, and connect at the adjoining splice. After installing the front seat left side panel in position, install the instrument light with the same screws that have been removed.

- i. Drill two light installing holes in instrument cover as shown in figure 4, area G. For dimensions, refer to figure 2.
- j. Cut right side instrument light harness as illustrated in figure 2, and remove the instrument light. Temporarily position the above light in the place drilled in the preceding step 9.
- k. Power supply and earth wiring runs underneath the instrument cover. Cut the harness as illustrated in figure 2.
- l. According to illustration in figures 4 and 5, connect the harness to the instrument light positioned in step 10. At this time, connect each end of the separated earth wire to terminal, FVD1.25M3, and then install the terminal and the instrument light together as shown in figure 5.
- m. The instrument lights shown in figure 4, areas D and F, to be left in the same positions.
- n. Hold support plate, 200-364134-001, in position, and, using four holes in the support plate, drill four .174/.165 in diameter holes in instrument panel cover.
- o. Insert insulation tubes, F-0315-070020 and F-0315-13020, into each end of arm assembly, 200-364133-001, as shown in figure 1. Through these tubes, pass harness, L-17A20N (earth) and L16L20 (power supply). Attach terminal, FVD1.25-M3, to the end of the earth wire, and then install light assembly, MS25027-1 (or A-5395-1), and the terminal together on the arm assembly, using screws, MS24693-526, washers, AN960D6, and nuts, NAS679-A06W. Connect power supply harness with the light assembly, referring to figure 6, detail C.
- p. Install the arm on the support plate assembly at the nutplate with screw, MS35206-233, spacer NAS43DD58, and washer AN960D6.
- q. Attach the assembled arm and support plate to the instrument panel cover with the arm sandwiched between bracket, 200-364135-001, and slide plate 200-364136-001. Using the four holes provided in step 14, secure with screws, spacers, nuts, and washers as shown in figure 1. Also secure the harness with ty-rap, TY-15, as indicated in figure 1.
- r. Drill a .147/.139 in diameter hole through the support plate and bracket as indicated in figure 1, and install stopper, 200-364132-003, with screw MS35206-230, washer, AN960D6, and nut, NAS679A06W.

- s. Using splice, 322049, connect the harness separated in step 10 to the power supply harness from the sliding instrument light as shown in figure 4. Also connect the earth harness from the same light to the existing earth with terminal, FVD1.25-M32, at the point shown in figure 4. Attach the terminal as illustrated in figure 5, view B-B, using one of the two holes previously used for installing light; the other hole is no longer required, and must be plugged with screw.
- t. Upon completion of the above procedures, carefully check for proper wiring or short-circuit, and then perform lightening test.
- u. Install cover on sliding canopy left side rail.
- v. Install cover on fixed front canopy left side frame.
- w. Install instrument cover (left) on instrument panel.

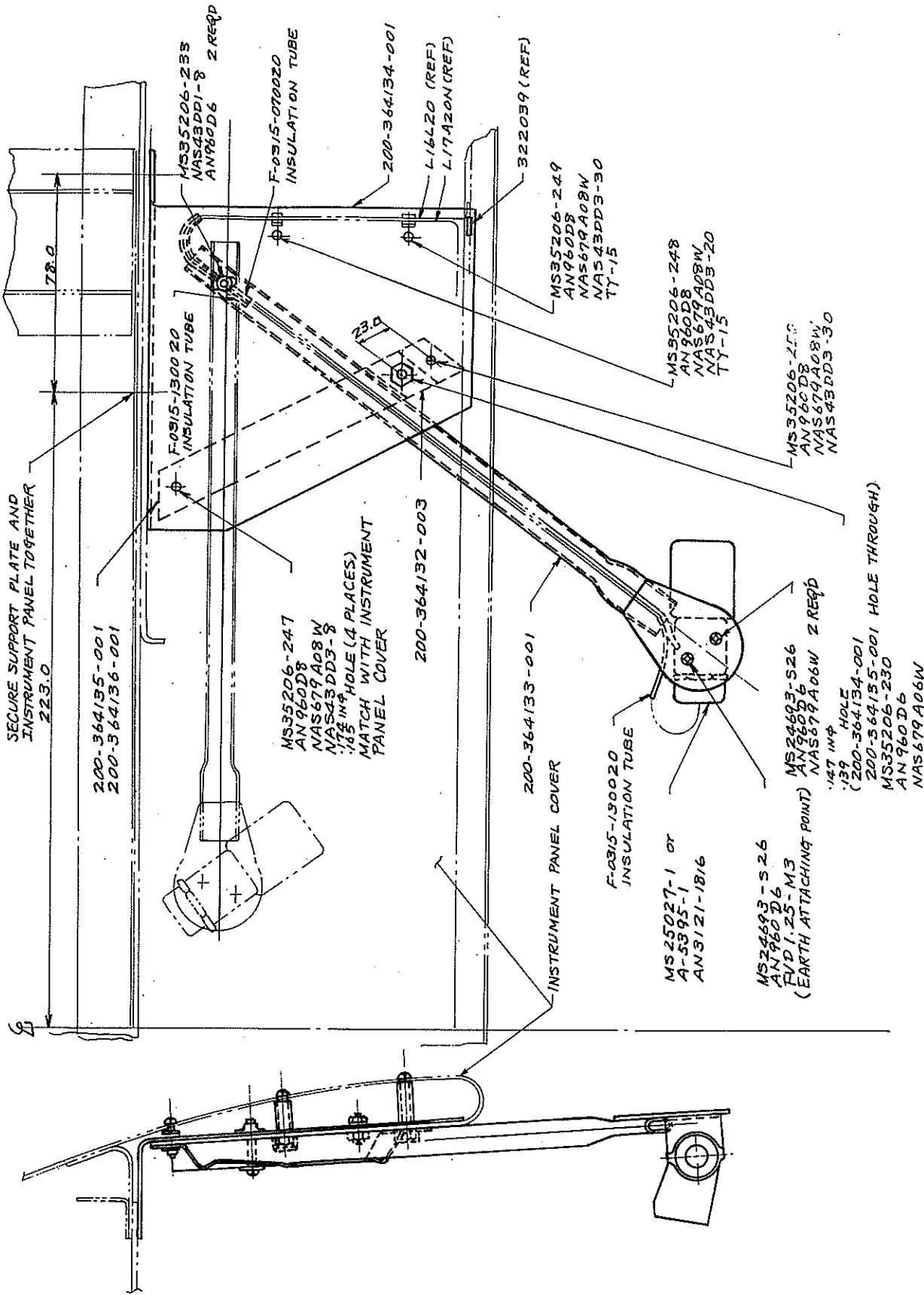


FIG. 1

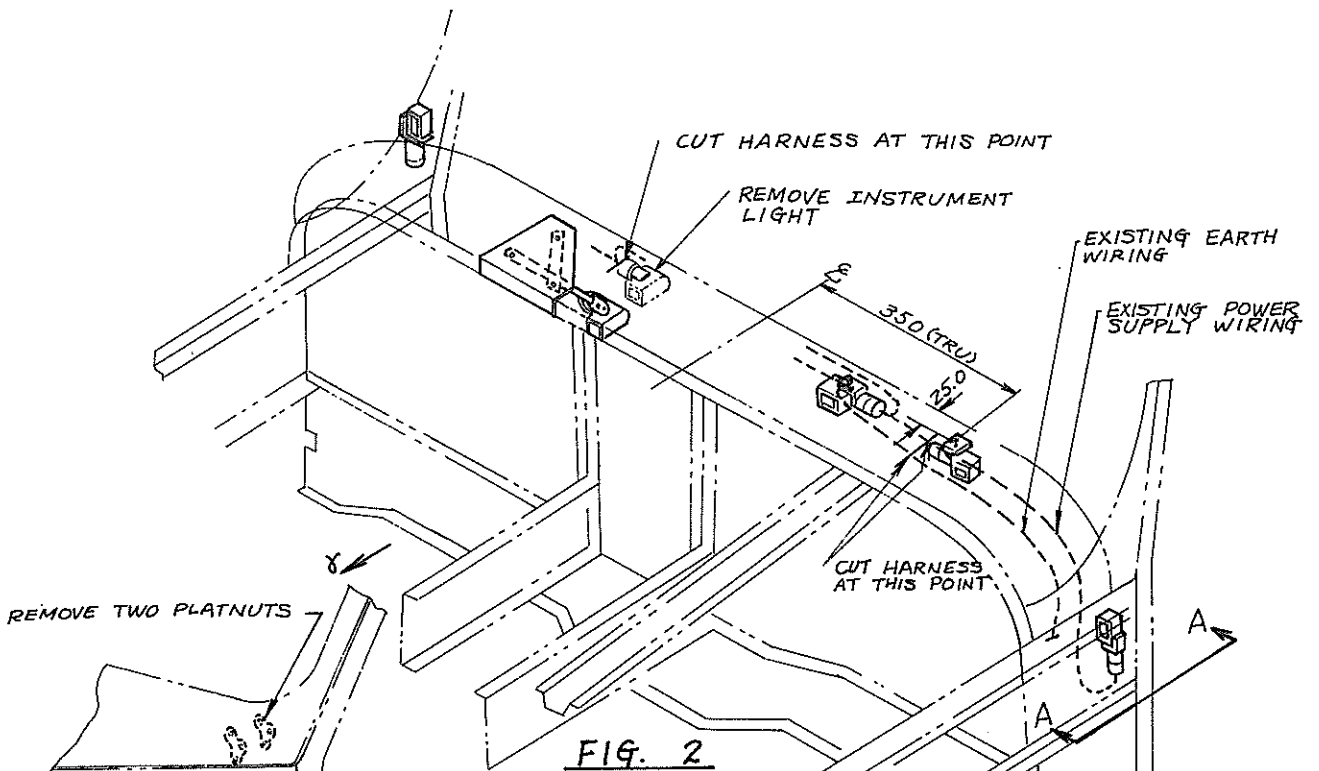


FIG. 2

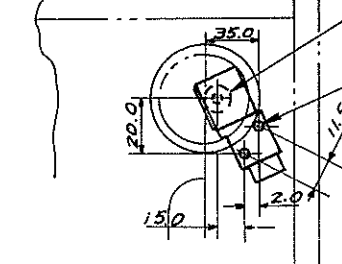


FIG. 3 VIEW A-A

DRILL 6.4mm ϕ HOLE IN PANEL AND INSTALL GROMMET MS35489-15
 .379 IN ϕ HOLE (2 PLACES) IN STRUCTURE TO INSTALL PLATENUTS NAS684A06
 .127 IN ϕ HOLE (1 PLACE) IN PANEL

AN960-6 2 REQD
 NAS679A06W

AN960-6 2 REQD
 AN935-6
 NAS679A06W
 FVD1.25-M3

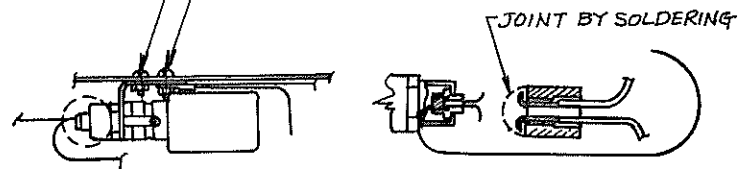


FIG. 5 VIEW B-B

FIG. 6 DETAIL C

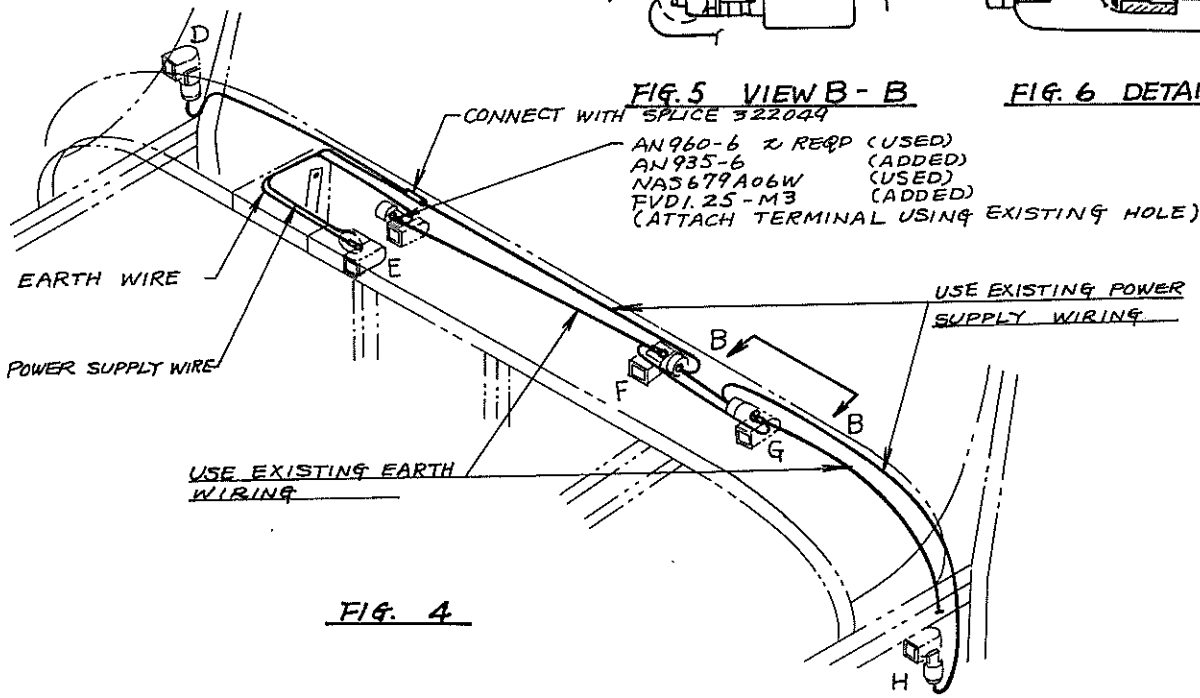


FIG. 4