

TECHNICAL BULLETIN

FUJI HEAVY INDUSTRIES LTD.

HEAD OFFICE: SUBARU BLDG.
SHINJUKU, TOKYO, JAPAN

~~SECRET~~

NO. 200-015 DATE Jan. 7.1985 (SUPERSEDES NO.)
REV. B DATE Sep.26.2005 (SUPERSEDES NO.)

REASON Clarify classification of this bulletin.

1. SUBJECT	: Installation Procedure for New Auxiliary Fuel Pump
2. AIRCRAFT AFFECTED	: All FA-200-180 aircraft (except for prototypes)
3. PRIORITY	: Optional
4. REASON	: Since a type certificate was given for installation of Weldon pump P/N 8172-A on FA-200-180 aircraft as an auxiliary fuel pump, this bulletin introduces modification instructions for this new pump installation.
5. DESCRIPTION	: Modify the systems of auxiliary fuel pump and engine driven pump from parallel type to direct type, and change the auxiliary fuel pump from Dukes pump P/N 4140-00-1 to Weldon pump P/N 8172-A. The 8172-A Weldon pump, with terminals for wiring attached, is offered as pump assembly P/N 203-929109-001.
6. ACCOMPLISHMENT	: At customer's option
7. APPROVAL	: JCAB Approval not required
7A. CLASSIFICATION	: Minor repair.
8. PARTS REQUIRED	: Refer to the attached parts list. (Required parts are provided as Modification Kit No. T/B 200-015-1.)
9. SPECIAL TOOL	: None required
10. WEIGHT AND BALANCE	: Negligible
11. REFERENCE	: Not applicable



12. DETAILED INSTRUCTIONS:

- (1) Set all switches and fuel selector valve in "OFF" position, and ground aircraft to approved ground rod.
- (2) Remove engine cowlings in accordance with Service Manual, Paragraph 4-3-1.
- (3) Remove auxiliary fuel pump cooling cover.
- (4) Remove hose P/N SRC-79-6-0220 (reuse) between fuel strainer and engine driven fuel pump, tube assembly P/N 203-929102-001 between fuel strainer and auxiliary fuel pump, hose P/N SRC-79-6-0220 between auxiliary fuel pump and engine driven fuel pump, and hose P/N 74590 or LW-12877-6-161 (reuse) between engine driven fuel pump and injector.
- (5) Remove existing auxiliary fuel pump P/N 4140-00-1 in accordance with Service Manual, Paragraph 6-9-1.
- (6) Remove union AN815-6D (reuse) from the above pump.
- (7) Remove tee AN783-6 and check valve P/N 200-389008-003 from engine driven fuel pump.
- (8) Remove tee AN825-6D from fuel strainer.
- (9) Cap or plug openings of lines to prevent contaminations.
- (10) Remove bracket P/N 203-929105-001 or 203-929108-003 from firewall.
- (11) Drill out attaching rivets and remove the following parts as called out at legend (REMOVE) in Figure 1.
Cooling cover installation bracket P/N 200-929024-001.
Two angles P/N 200-929015-001 and 200-929020-001.
- (12) See Figure 1. Install brackets P/N 200-929024-011, 200-929015-003, and 200-929020-011 in place of the bracket and angles removed in the previous step. Install four nutplates MS21069L3.
- (13) See Figure 3. Attach bracket P/N 203-929121-001 to the nutplates installed in the previous step, reusing four screws MS35207-263 and four washers AN960D10.
- (14) See Figure 2. Install new auxiliary fuel pump P/N 203-929109-001 on the above bracket. Install related wiring. Also install an elbow MS20822-4D and tube assembly P/N 203-929102-025.
- (15) Install union AN815-6D on engine driven fuel pump, using new packing MS29512-06 in place of the tee removed in the above step (7).

- (16) Connect hose P/N 74590, removed in the above step (4), in the same place.
- (17) Install on new auxiliary fuel pump the union AN815-6D removed in the previous step (6) using new packing MS29512-06. Install elbow AN837-6D on the opposite end with nut AN924-6D, using new packing MS29512-06.
- (18) Connect hose P/N SRC79-6-0220 between auxiliary fuel pump and engine driven fuel pump.
- (19) Install elbow MS220822-6D on fuel strainer in place of the tee removed in the above step (8).
- (20) Install tube assembly P/N 203-929102-023 between fuel strainer and auxiliary fuel pump.
- (21) Accomplish system cleaning and leak check as follows:
 - a. Remove fuel hose at injector inlet.
 - b. Use suitable container to catch any spilled fuel.
 - c. Place fuel selector valve in "ON" position and set auxiliary fuel pump switch to "ON" for several seconds to drain fuel.
 - d. Install the fuel hose.
 - e. Set MC lever to "CUT OFF" position. Operate auxiliary fuel pump for several seconds and verify that there is no fuel leak.
- (22) See Figure 3. Install cooling cover P/N 203-929111-023 with 12 screws MS24621-29.
- (23) Install engine cowlings and other items removed for access.
13. (Deleted)

REQUIRED PARTS LIST (Shows the contents of T/B 200-015-1 Modification Kit)

No.	P/N	DESCRIPTION	UNITS PER ASSY
1	203-929109-001	PUMP ASSY	1
2	203-929121-001	BRACKET ASSY	1
3	200-929015-003	BRACKET	1
4	200-929020-011	BRACKET ASSY	1
5	203-929111-023	COVER ASSY	1
6	200-929024-011	BRACKET ASSY	1
7	203-929102-023	TUBE ASSY	1
8	203-929102-025	TUBE ASSY	1
9	AN815-6D	UNION	1
10	AN837-6D	ELBOW	1
11	AN924-6D	NUT	1
12	MS20822-4D	ELBOW	1
13	MS20822-6D	ELBOW	1
14	MS21069L3	NUT PLATE	4
15	MS24621-29	SCREW	12
16	MS29512-06	PACKING	3
17	MS20470AD4	RIVET	14
18	MS20470AD3	RIVET	9

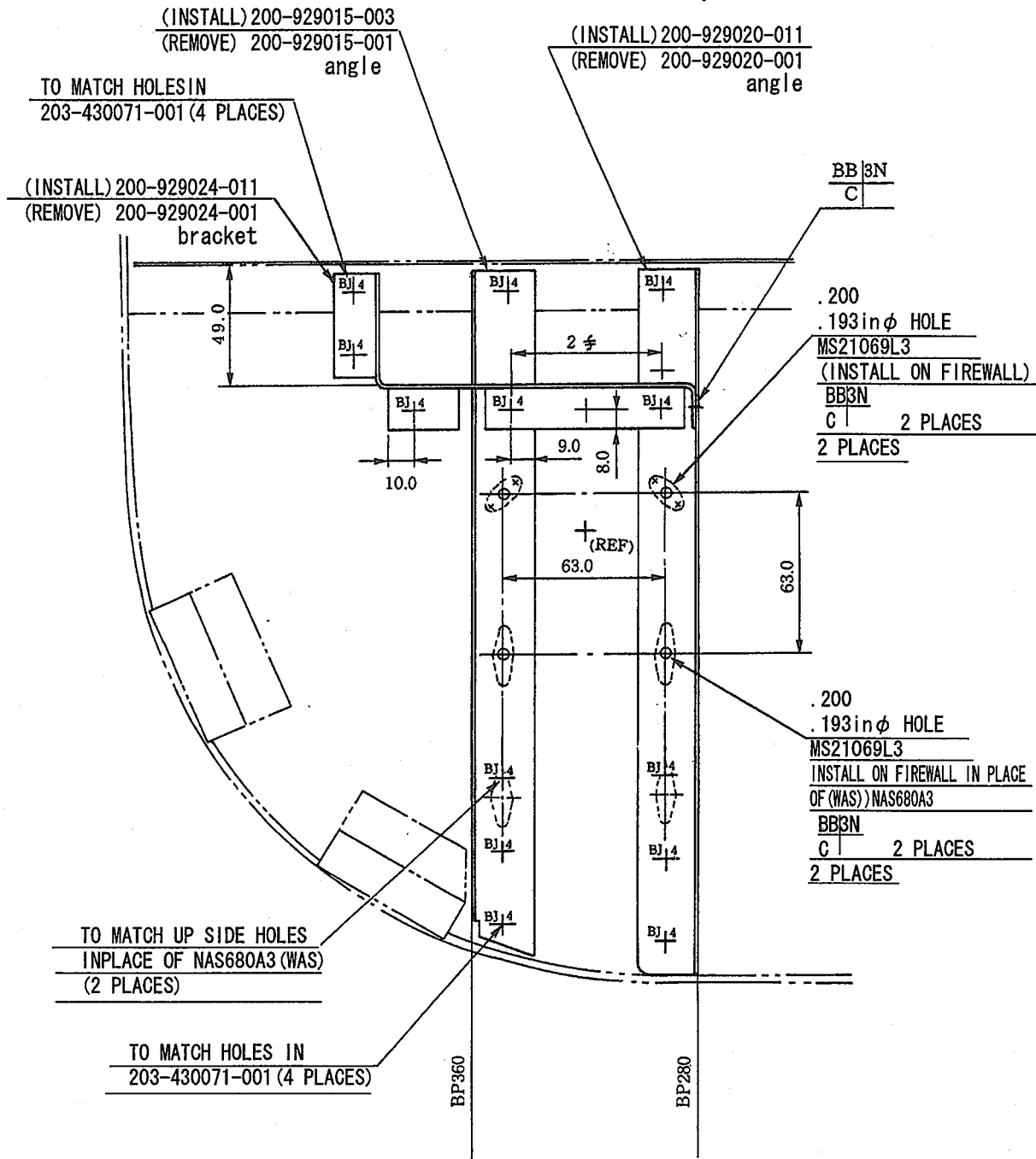


Figure 1 Structural Modification

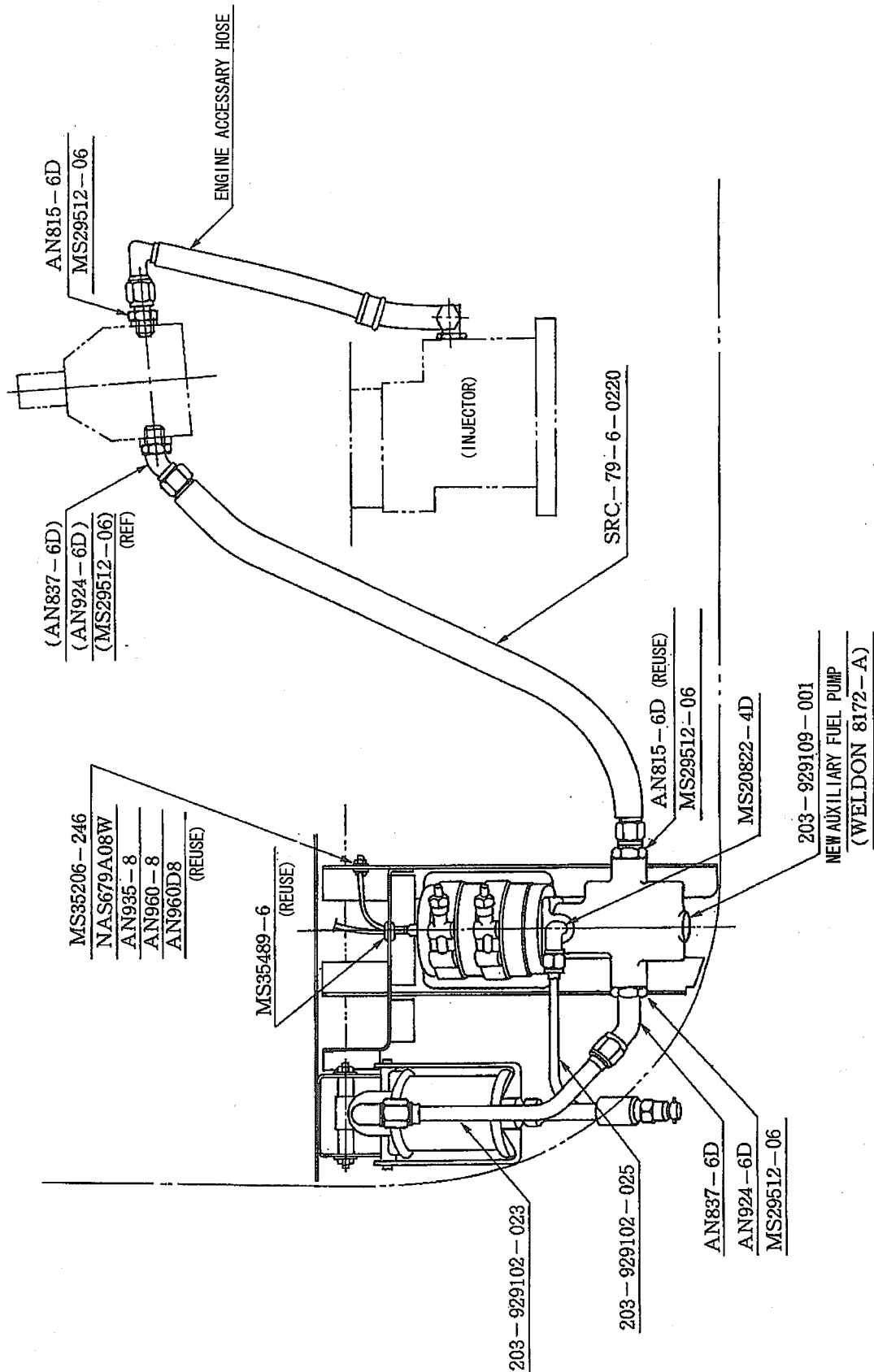


Figure 2 Fuel System Modification (Front View)

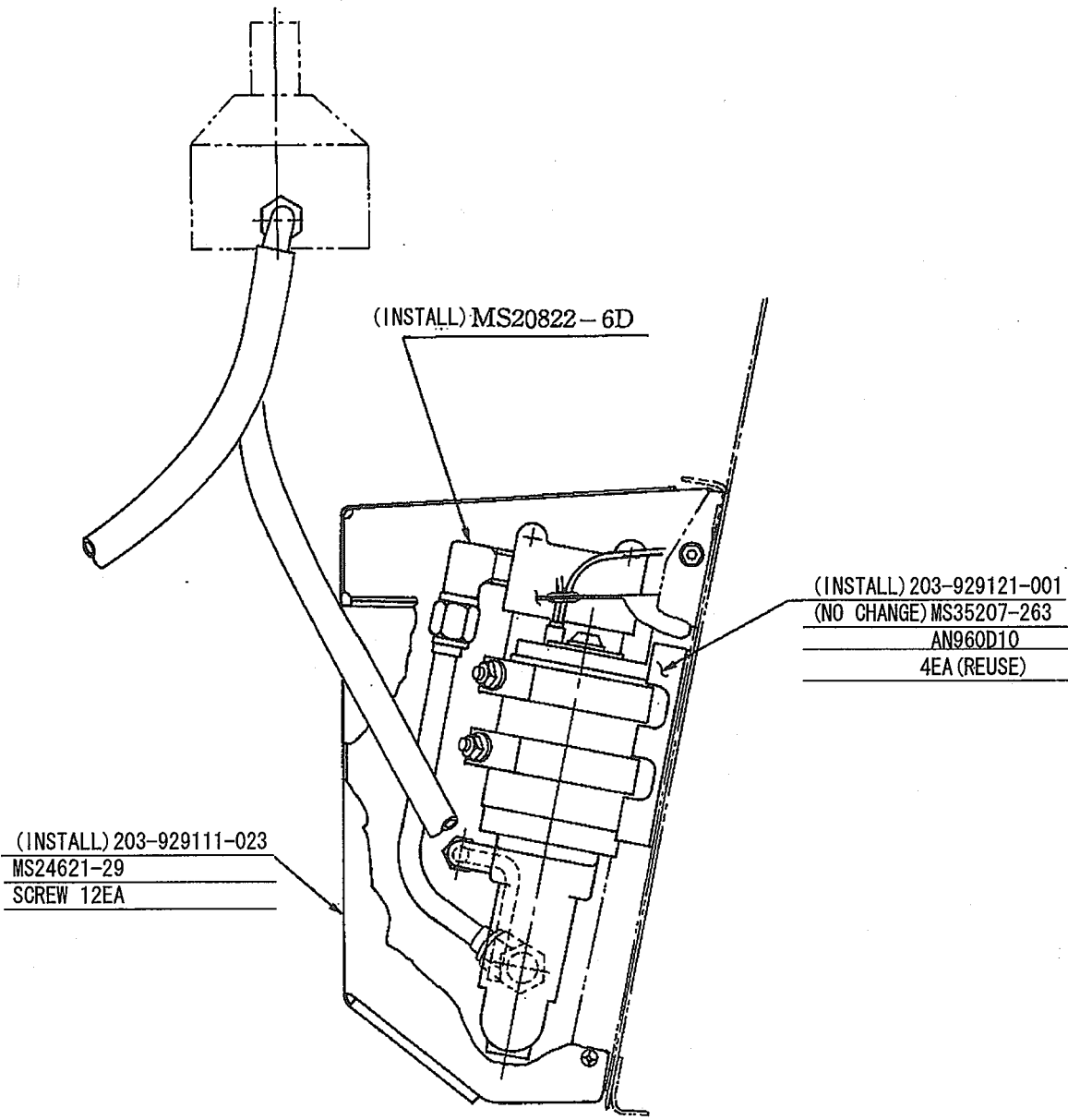


Figure 3 Fuel System Modification (Side View)