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ATA SYSTEM : 21

TITLE : AIR CONDITIONING - GENERAL - FLOW CONTROL AND INDICATING - REMOVE A
PRESSURE SENSE LINE FOR FLOW CONTROL VALVE

MODIFICATION No. : 31332K7283

This page transmits Revision No. 02 of Service Bulletin No. A320-21-1131.

ADDITIONAL WORK

No additional work is required by this revision for aircraft modified by any previous issue.

REASON

This Revision is issued to reduce the effectivity by those aircraft which have already been modified on the production line.

CHANGES

SUMMARY

- REASON

Sentence added stating that accomplishment of this Service Bulletin is permitted only for PNs 1303A0000-01 or -02.

- EFFECTIVITY

Sentence added stating that accomplishment of this Service Bulletin is permitted only for PNs 1303A0000-01 or -02.

Sentence added stating that the serial embodiment point of Mod. No. 31332K7283 is on aircraft MSN 1618, 1630 and subsequent.

PLANNING INFORMATION

- EFFECTIVITY

Updated to remove the MSNs which have already been modified on the production line.

Sentence added stating that the serial embodiment point of Mod. No. 31332K7283 is on aircraft MSN 1618, 1630 and subsequent.

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Sentence added stating that accomplishment of this Service Bulletin is permitted only for PNs 1303A0000-01 or -02.

– REASON

Para. (1), sentence added stating that accomplishment of this Service Bulletin is permitted only for PNs 1303A0000-01 or -02.

ACCOMPLISHMENT INSTRUCTIONS

– MODIFICATION

NOTE added.

Para. (1)(a), in table, item (4), PN D2157143704000 added.

Para. (1)(c), in table, item (4), PN D2157143704400 added.

– ILLUSTRATIONS

Figure 1 Sheet 2, Detail G added.

Figure 1 Sheet 3, Detail G added.

Figure 1 Sheet 4, Detail G added.

Figure 1 Sheet 5, Detail G added.

Figure 1 Sheet 6, figure added.

Figure 1 Sheet 7, figure added.

NOTE : Layout changes due to computerization of this revision are not identified.

FILING INSTRUCTIONS

This Service Bulletin has been generated electronically and is reissued as a complete document. Replace the complete document.

Put this Revision Transmittal Sheet in front of the Service Bulletin.

HISTORY OF PREVIOUS REVISIONS

Revision No. 01 was issued to delete aircraft MSN 1618 and operator MXA from the effectivity.

REVISION SEQUENCE

ORIGINAL : Sep 27/01

REVISION No. : 01 – Feb 08/02

REVISION No. : 02 – Sep 09/02

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This summary is for information only
and is not approved for modification of the aircraft

ATA SYSTEM : 21

TITLE : AIR CONDITIONING - GENERAL - FLOW CONTROL AND INDICATING - REMOVE A
PRESSURE SENSE LINE FOR FLOW CONTROL VALVE

MODIFICATION No. : 31332K7283

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

The pressure sense line for the flow control valves 8HB and 11HB is no longer necessary on aircraft that have the flow control valve PN 1303A0000-01 or PN 1303A0000-02 installed. The accomplishment of this Service Bulletin is permitted only for these PNs.

This Service Bulletin details the procedure for removal of the pressure sense line between FR35 and FR36 and installation of blanking caps.

The removal of the pressure sense line will permit spares commonality.

EVALUATION TABLE			
COMPLIANCE	Desirable	CANCELS INSPECTION SB	No
POTENTIAL AD	No	A/C OPERATION AFFECTED	No
RELIABILITY AFFECTED	No	PAX COMFORT AFFECTED	No
COST SAVING	No	ETOPS AFFECTED	No
STRUCTURAL LIFE EXTN	No	VENDOR SB INVOLVED	No
KIT PRICE (USD)	No kit		

EFFECTIVITY

This Service Bulletin is applicable to these operator(s) :

AAR AEF AES AFR AJM AMM AMU ANA AUA AWE AZA BAW BMA CES CIB CJG CNW CRX CSC CSN
CTN C3J DCS DLH EDW EIN EWG F2I FIN G4I GBL HDA IBE IWD JBU KZW LAJ LBT MON NWA
QAF QTR SAB SEU SHJ SLK SYR TAI TAM TAP TAR TAS TWE TWJ UAL USA VLE WGT

The accomplishment of this Service Bulletin is permitted only if the flow control valve PN 1303A0000-01 or PN 1303A0000-02 is installed.

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SERVICE BULLETIN SUMMARY

Serial embodiment point of Mod. No. 31332K7283 is on aircraft MSN 1618 , 1630 and subsequent.

CONCURRENT REQUIREMENTS

None

REFERENCES/REPERCUSSIONS

TFU	: None
OEB	: None
AOT	: None
SIL	: None
LIFE LIMIT	: None
LINE MAINTENANCE AFFECTED	: No
OTHERS	: None

NATURE OF THE WORK

AIRCRAFT	: YES
EQUIPMENT	: NO
HARD	: NO
SOFT	: NO
OBRM	: NO

MANPOWER

TOTAL MANHOURS	2.25
ELAPSED TIME (HOURS)	0.75

MATERIAL INFORMATION

AIRCRAFT DATA

None

APPENDICES

None

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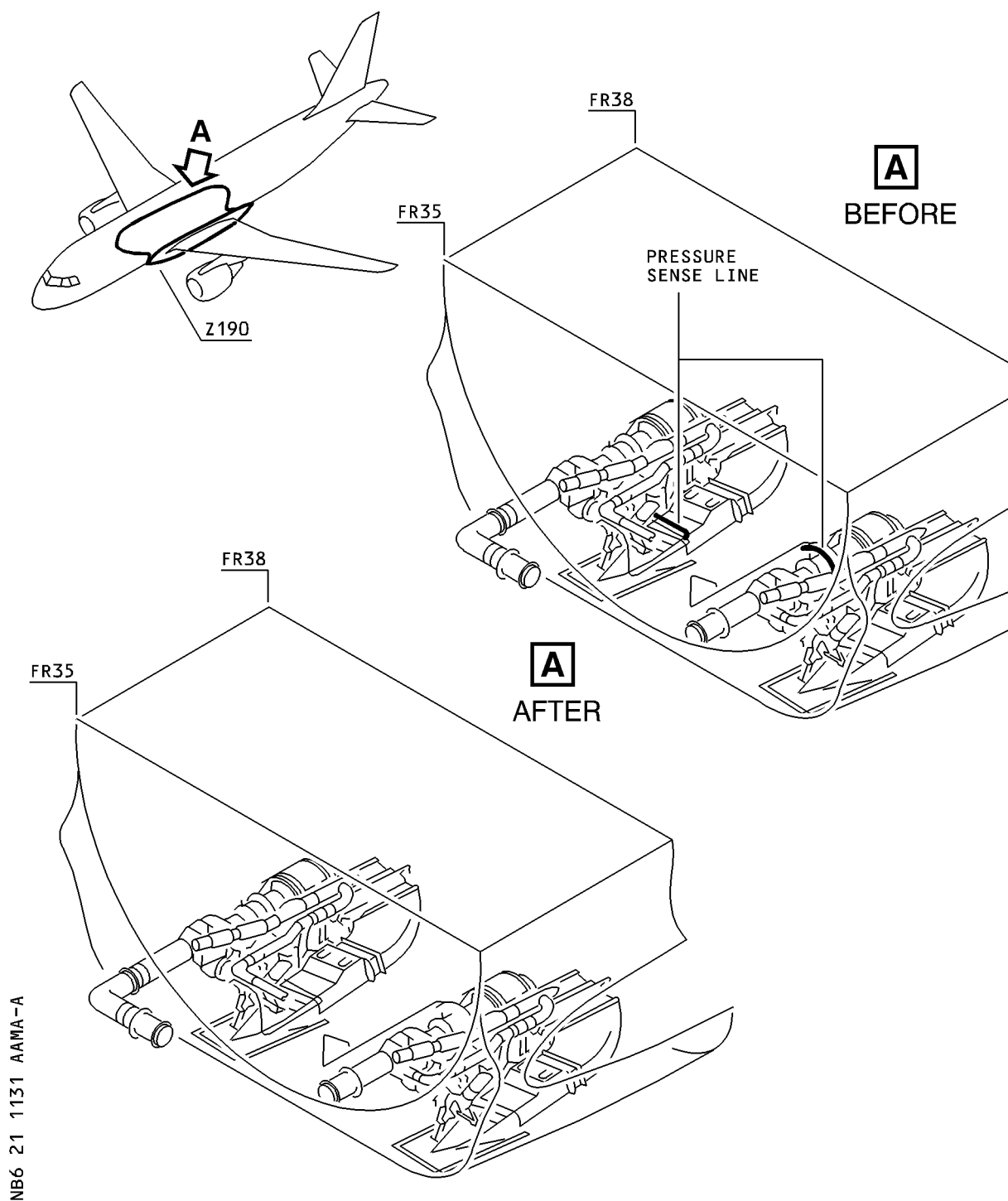
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SERVICE BULLETIN SUMMARY



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ATA SYSTEM : 21

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PRESSURE SENSE LINE FOR FLOW CONTROL VALVE

MODIFICATION No. : 31332K7283

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1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Models

319-111 319-112 319-113 319-114 319-115 319-131 319-132 319-133
320-211 320-212 320-214 320-232 320-233 321-111 321-112 321-131
321-211 321-231

(2) Aircraft

(a) Effectivity by MSN

This Service Bulletin is applicable to aircraft MSN :

0844 0861 0863 0868-0869 0872 0876 0878 0880-1215

(b) Effectivity by Operator

The Operator/MSN relationship is provided for information only and is correct at the time of issue in accordance with the information available to AIRBUS. Any future changes resulting from transfer of an aircraft from one operator to another will not be reflected in this list unless the Service Bulletin is revised for another reason.

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	OPERATOR	MSN
	AAR	1060
	AEF	0954 0990 1004 1195 1199
	AES	0892
	AFR	0938 0956 0985 0998 1000 1020 1025 1036 1133 1151 1169 1176 1190 1201
	AJM	1213
	AMM	1006 1017
	AMU	0908
	ANA	0963 1008 1042 1204
	AUA	0920 0935 1137 1150 1189
	AWE	0889 0924 0931 0953 1003 1043 1049 1050 1056 1064 1075 1079 1083 1088 1110 1111 1116 1166 1178 1196
	AZA	0940 0951 0959 0999 1138 1168
	BAW	1082 1115 1118 1142 1193 1197
	BMA	0934 0968 0974 1014 1045 1153 1174 1177 1183 1207
	C3J	0883 0914 0925
	CES	1005 1028 1030 1070 1072 1093 1108
	CIB	0884 0894 0905 0957 0971
	CJG	0876 0921
	CNW	0897 0909 0939 0967 0984 0986 1041
	CRX	0891 0987 1018 1144
	CSC	0878 0915 0919 1013
	CSN	0881 0895 0900 0950 0966 1035 1039 1057
	CTN	1009 1029
	DCS	1053
	DLH	0887 0901 1080 1161 1188 1214
	EDW	0942 0947 1026
	EIN	0926 0991 1023 1094
	EWG	1016 1172
	F2I	1012 1054 1068 1081 1102 1145 1160 1184
	FIN	0941 0961 1073 1107 1185
	G4I	1002 1157
	GBL	1215
	HDA	0930 0993 1024
	IBE	0992 0994 1021 1027 1047 1059 1063 1067 1087 1099 1101 1119 1154 1180 1200 1208
	IWD	0888

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OPERATOR	MSN
JBU	1123 1156 1173
KZW	1048 1086 1124
LAJ	1194
LBT	1121 1175
MON	0983 1015 1202
NWA	0903 0907 0911 0923 0962 0964 0981 0988 0996 1011 1037 1058 1062 1071 1078 1090 1091 1126 1129 1131 1149 1164 1167 1186 1191
QAF	0927
QTR	0928 0932 0943 0977
SAB	0970 0995
SEU	0973
SHJ	0910
SLK	0872 0899 0969 1074 1098
SYR	0886 0918 1032 1076 1085 1117
TAI	0902 0912 0916 1007 1066 1113 1140 1159
TAM	0976 1010 1092 1096 1103 1139 1143 1158
TAP	0906 0917 0933 0945 0960 0979 0982 1034 1100 1106 1120 1127 1165 1181 1206
TAR	0869 0880 0958 0975 1187
TAS	0937
TWE	0978 1130
TWJ	0913
UAL	0882 0893 0898 0944 0948 0952 0955 0965 0980 0989 1001 1022 1031 1104 1105 1128 1146 1163 1192 1211
USA	0844 0861 0863 0868 0885 0890 0896 0904 0922 0929 0936 0946 0949 0972 0997 1019 1033 1038 1040 1044 1046 1051 1052 1055 1061 1065 1069 1077 1084 1089 1095 1097 1109 1112 1114 1122 1134 1135 1136 1141 1147 1148 1155 1170 1171 1182 1203 1205 1209 1210
VLE	1125 1132 1152 1162 1179 1198
WGT	1212

Serial embodiment point of Mod. No. 31332K7283 is on aircraft MSN 1618 , 1630 and subsequent.

The accomplishment of this Service Bulletin is permitted only if the flow control valve PN 1303A0000-01 or PN 1303A0000-02 is installed.



(c) Effectivity by MSN and Kit/Configuration

No AIRBUS kit is required for the accomplishment of this Service Bulletin.

(3) Spares

None

B. CONCURRENT REQUIREMENTS

None

C. REASON

(1) History

The pressure sense line for the flow control valves 8HB and 11HB is no longer necessary on aircraft that have the flow control valve PN 1303A0000-01 or PN 1303A0000-02 installed. The accomplishment of this Service Bulletin is permitted only for these PNs.

(2) Objective/Action

This Service Bulletin details the procedure for removal of the pressure sense line between FR35 and FR36 and installation of blanking caps.

(3) Advantages

The removal of the pressure sense line will permit spares commonality.

(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

(1) Remove the pressure sense lines.

(2) Install the blanking caps at the tees.

E. COMPLIANCE

(1) Classification

Desirable

(2) Accomplishment Timescale

In accordance with operators' maintenance schedule.

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F. APPROVAL

The technical content of this Service Bulletin has been approved under the authority of the DGAC Design Organisation Approval No. F.JA.02.

If an aircraft listed in the effectivity has a modification or repair embodied that is not of AIRBUS origin, and which affects the content of this Service Bulletin, the operator is responsible for obtaining approval by its airworthiness authority for any adaptation necessary before incorporation of the Service Bulletin.

G. MANPOWER

The manpower estimates given in this Service Bulletin are based on the direct labor cost to do the work. These estimates assume that the work will be done by experienced personnel, and may need to be revised upwards to suit operators' circumstances. The estimates do not include the time to prepare, plan or inspect the work. Manufacture and procurement of parts and tools, drying time for paints, sealants, etc. and general administration work are also not included.

Get Access	0.75
Modification	0.50
Close-up	1.00
TOTAL MANHOURS	2.25
ELAPSED TIME (HOURS)	0.75

H. WEIGHT AND BALANCE**A319**

Manufacturers Empty Weight : -0.63 kg (-1.39 lb)

Effect on Balance : -9.01 kgm (-65.14 lb.ft)

A320

Manufacturers Empty Weight : -0.63 kg (-1.39 lb)

Effect on Balance : -10.02 kgm (-72.43 lb.ft)

A321

Manufacturers Empty Weight : -0.63 kg (-1.39 lb)

Effect on Balance : -12.71 kgm (-91.88 lb.ft)

I. ELECTRICAL LOAD DATA

Not changed

J. REFERENCES

Aircraft Maintenance Manual (AMM) : 12-34-24 20-21-12 21-51-41

Standards Manual (SM) :

Consumable Material List (CML) :

K. PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC) : 21-51-03

L. INTERCHANGEABILITY/MIXABILITY

Not applicable



2. MATERIAL INFORMATION

A. MATERIAL – PRICE AND AVAILABILITY

None

B. INDUSTRY SUPPORT INFORMATION

None

C. LIST OF COMPONENTS

None

D. LIST OF MATERIALS – OPERATOR SUPPLIED

(1) Consumable Materials

None

(2) Components

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
10	AS21914-6D	2		CAP					

NOTE : As an alternate for cap PN AS21914-6D the cap PN MS21914-6D is allowed.

E. PARTS TO BE RE-IDENTIFIED BY THE OPERATOR

None

F. TOOLING – PRICE AND AVAILABILITY

None

G. SPECIAL TOOLS

None

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3. ACCOMPLISHMENT INSTRUCTIONS**A. GENERAL**

WARNING : MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND CAUTIONS INCLUDED IN THE REFERENCED PROCEDURES.

(1) Preparation

- (a) Make sure that the aircraft is electrically grounded, refer to AMM 12-34-24 Page block 201.
- (b) Put an access platform in position.
- (c) Open these access panels, refer to AMM 21-51-41 Page block 4 01 :
 - 191BB and 192FB.

(2) Standard Practices

- (a) Refer to the AIRBUS Standards Manual (SM) if you find part numbers for the hardware components in the related kit(s) which you can not identify in the LIST OF COMPONENTS of this Service Bulletin. The SM will give you the correct part number to part number relationship.
- (b) For the material specification (Mat. No.) given in this Service Bulletin, refer to the Consumable Material List (CML).
- (c) To torque threaded components, refer to AMM 20-21-12 Page block 201.

B. MODIFICATION

NOTE : The accomplishment of this Service Bulletin is permitted only if the flow control valve PN 1303A0000-01 or PN 1303A0000-02 is installed.

**(1) Remove the pressure sense lines.
Refer to Figure 1**

- (a) Remove these items from the flow control valve LH, item (1) and the tee, item (2), as shown in Sheet 1 , Detail A, Sheet 2 , Sheet 3 , Details B and E, Sheet 6 , Sheet 7 , Detail G :

1	hose	D2157143704000	Item (4)	discard
1	bolt		Item (5)	discard
1	bolt		Item (5)	retain
1	washer		Item (6)	discard
1	washer		Item (6)	retain
1	nut		Item (7)	discard
1	nut		Item (7)	retain

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3	clamp	Item (8)	discard
1	clamp	Item (8)	retain

NOTE : Retain one clamp, item (8), in position on the relevant sense line for later installation.

(b) Install these items, as shown in Sheet 3 , Detail E :

1	clamp	Item (8)	retained
---	-------	----------	----------

with :

1	bolt	Item (5)	retained
1	washer	Item (6)	retained
1	nut	Item (7)	retained

(c) Remove these items from the flow control valve RH, item (1) and the tee, item (2), as shown in Sheet 1 , Detail A, Sheet 4 , Sheet 5 Details C and F, Sheet 6 , Sheet 7 , Detail G :

1	hose	D2157143704400	Item (3)	discard
2	bolt		Item (5)	retain
2	washer		Item (6)	retain
2	nut		Item (7)	retain
2	clamp		Item (8)	discard
2	clamp		Item (8)	retain

NOTE : Retain the two clamps, item (8), in position on the relevant sense line for later installation.

(d) Install these items, as shown in Sheet 5 , Detail F :

2	clamp	Item (8)	retained
---	-------	----------	----------

with :

2	bolt	Item (5)	retained
2	washer	Item (6)	retained
2	nut	Item (7)	retained

(2) Install the blanking caps at the tees.
Refer to Figure 1

(a) Install at the tees LH and RH, item (2), these items, as shown in Sheet 1 , Details B and C, refer to AMM 20-21-12 Page block 201:

2	blanking cap	AS21914-6D	Item 10
---	--------------	------------	---------

C. TEST

None

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D. CLOSE UP

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) Close the access panels, refer to AMM 21-51-41 Page block 401 :
– 191BB and 192FB.
- (3) Remove the access platform.

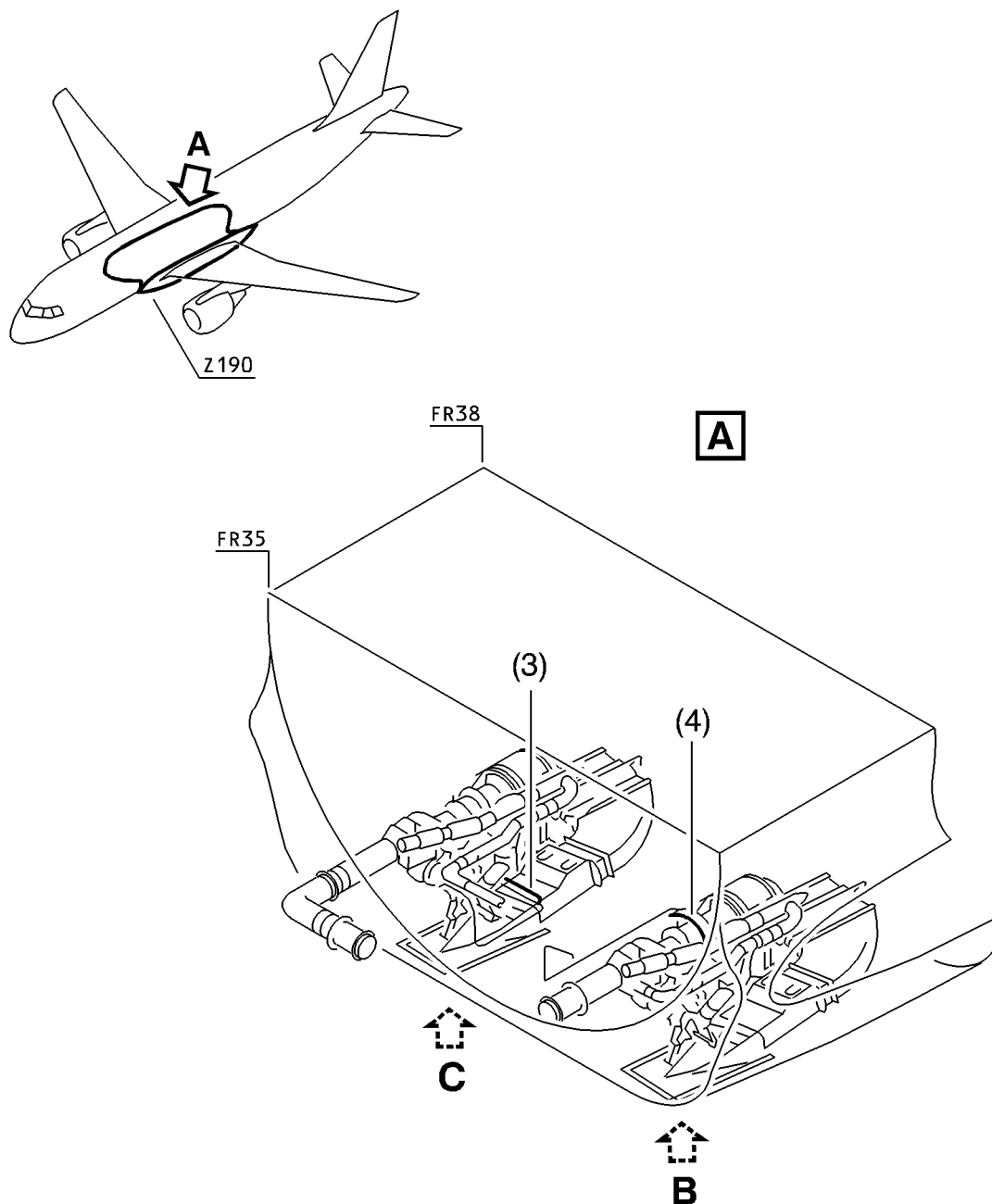
E. DOCUMENTATION

Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.



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NB6 21 1131 ACMA-A

Figure 1 Sheet 1
Removal of Pressure Sense Line

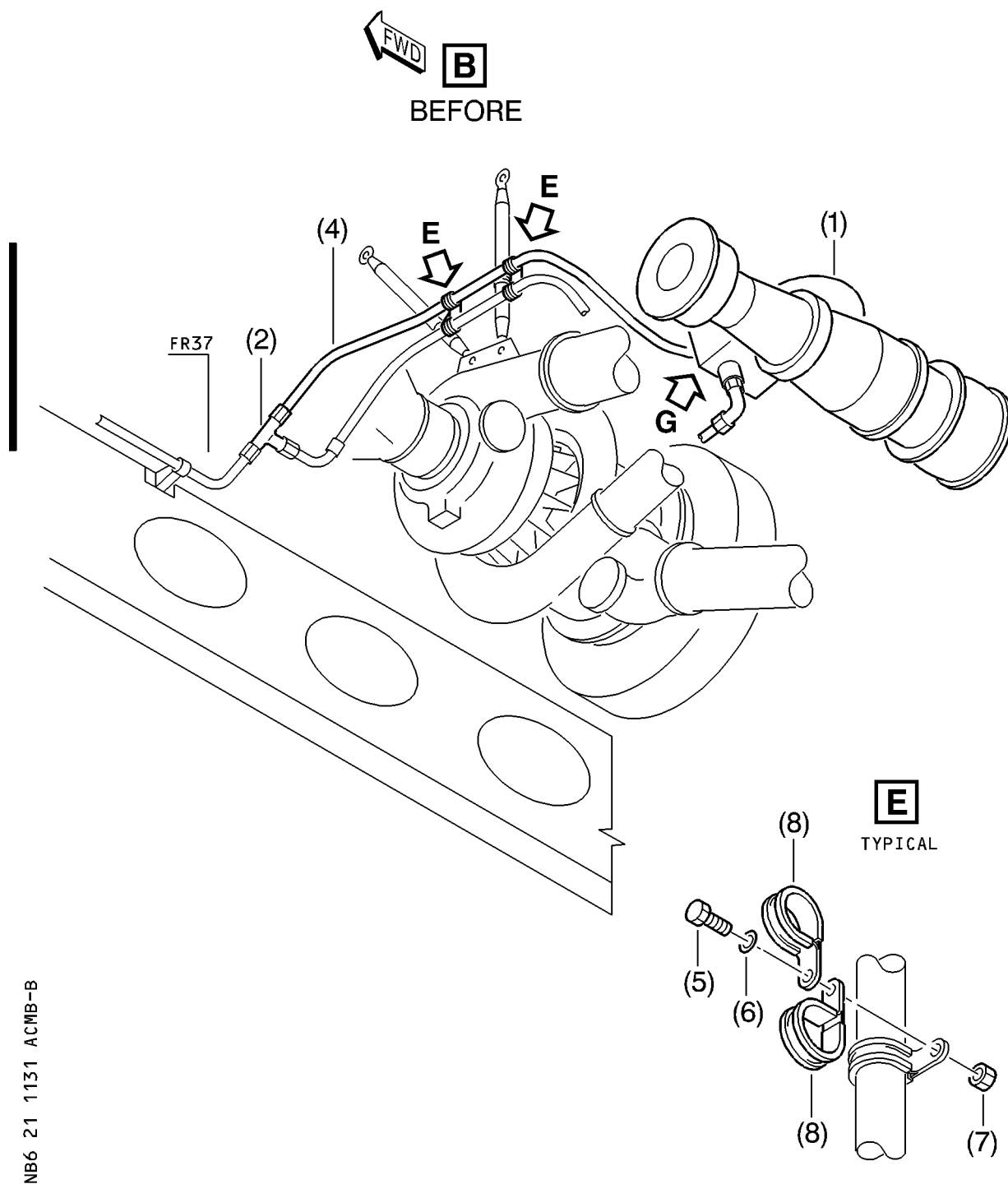
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NB6 21 1131 ACMB-B

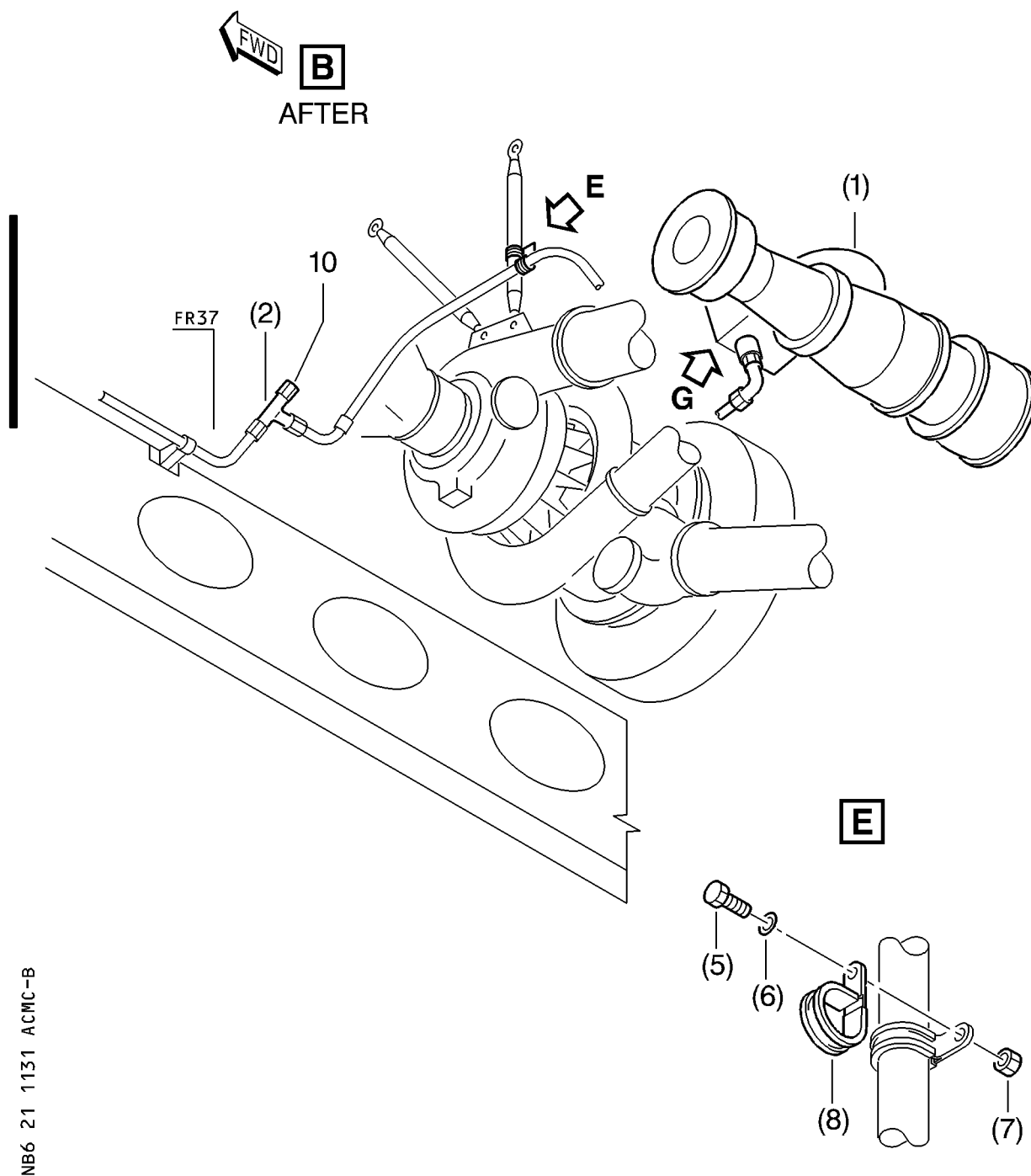
Figure 1 Sheet 2
Removal of Pressure Sense Line

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Figure 1 Sheet 3
Removal of Pressure Sense Line

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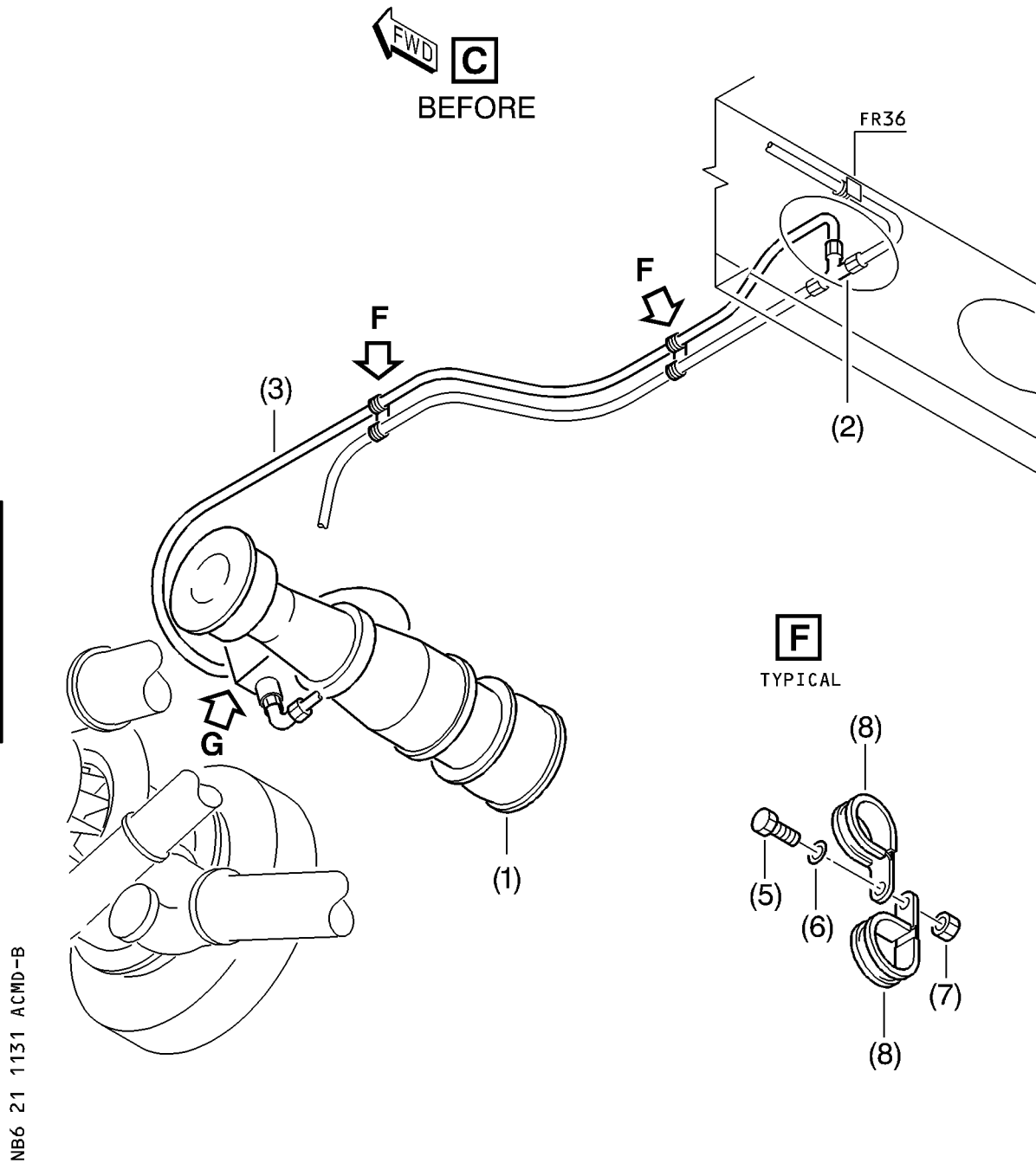


Figure 1 Sheet 4
Removal of Pressure Sense Line

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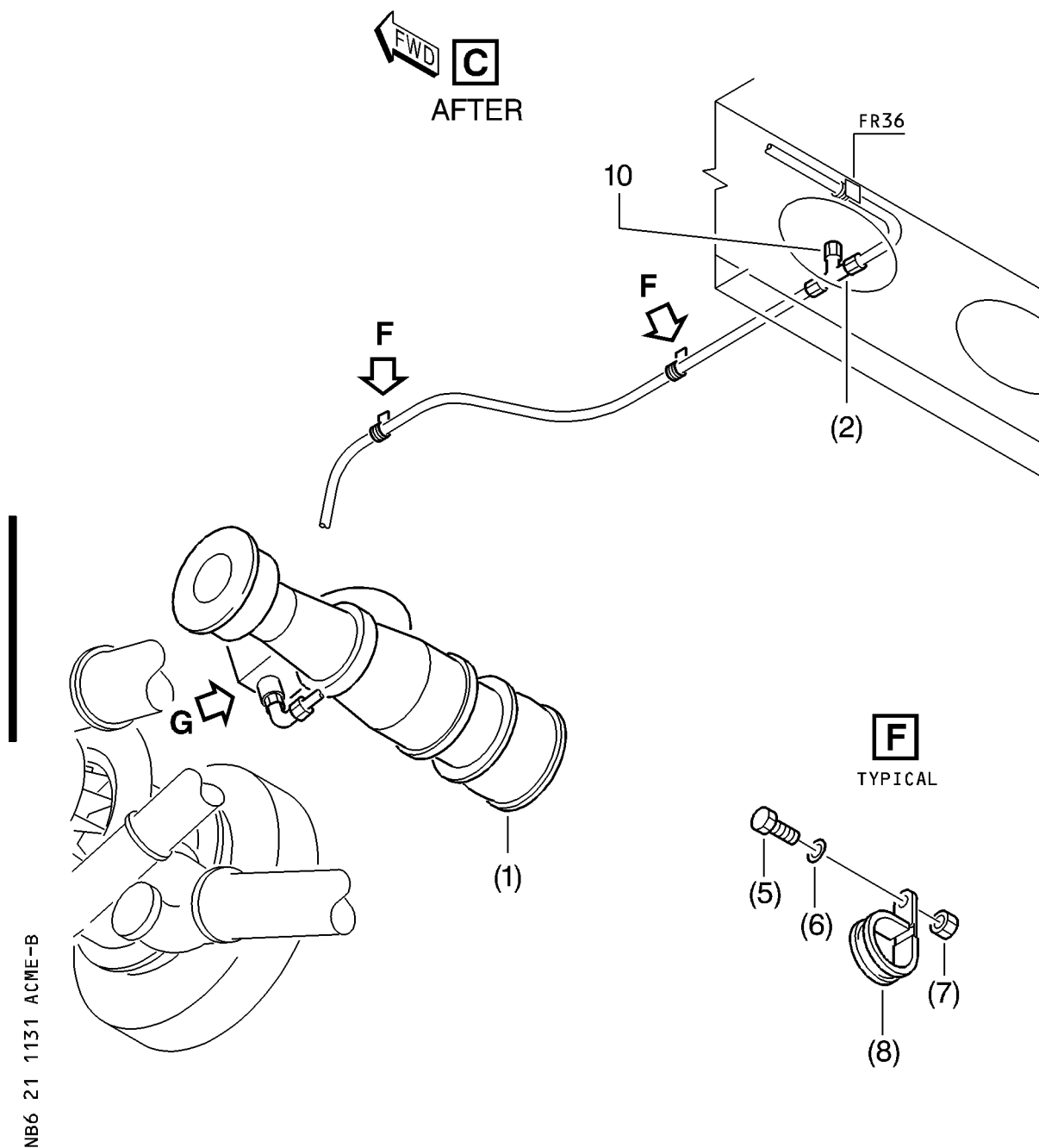


Figure 1 Sheet 5
Removal of Pressure Sense Line

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G TYPICAL
BEFORE

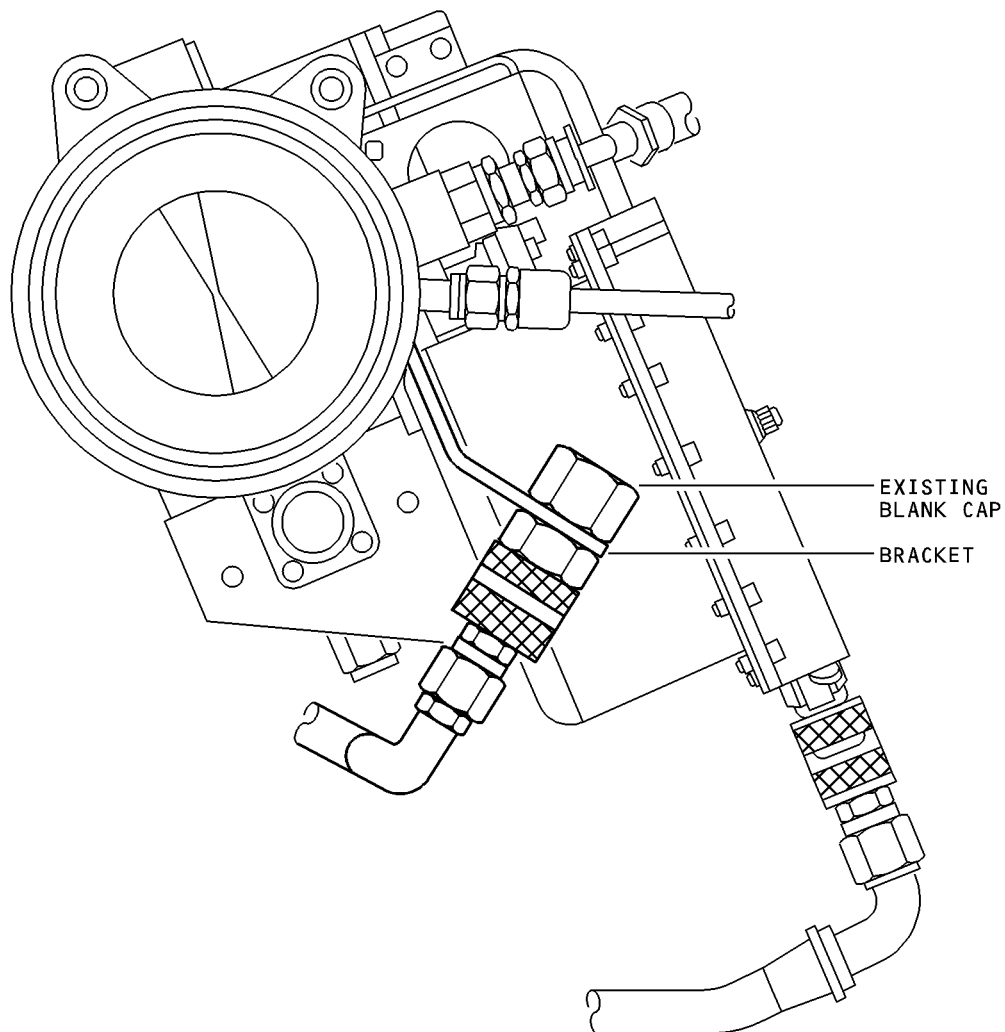


Figure 1 Sheet 6
Removal of Pressure Sense Line

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 TYPICAL
AFTER

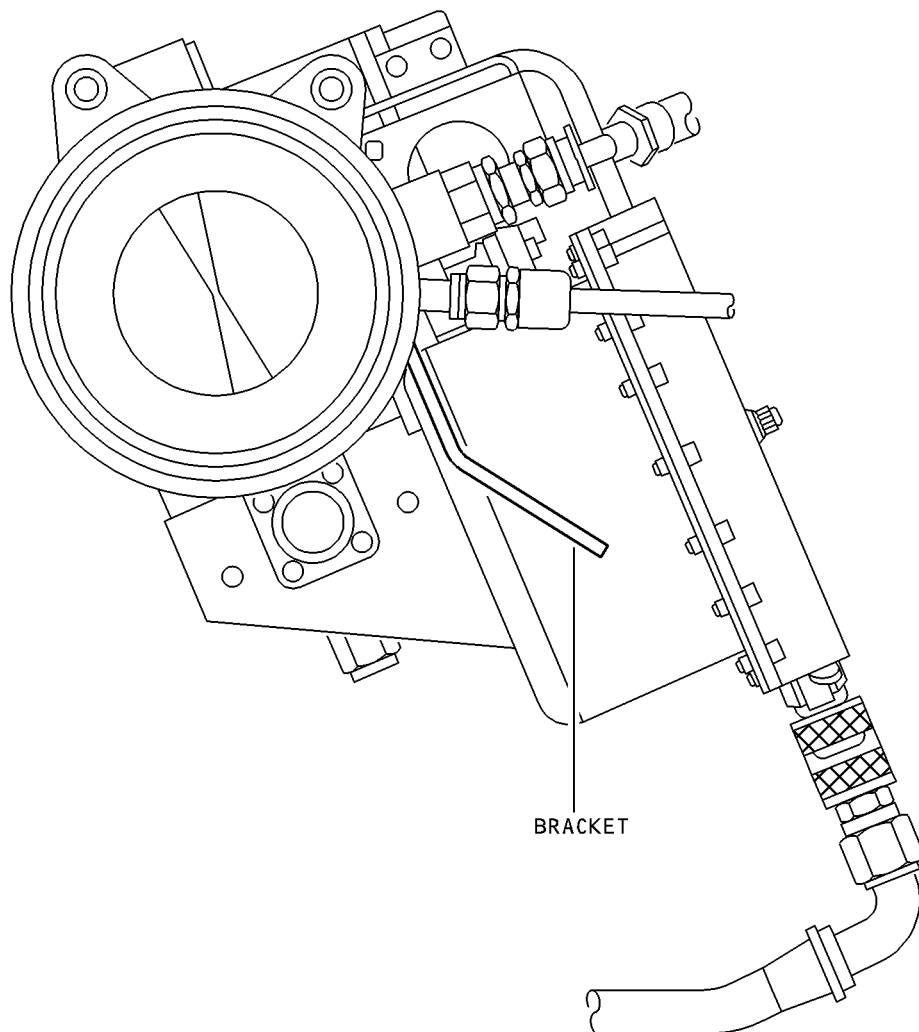


Figure 1 Sheet 7
Removal of Pressure Sense Line

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SERVICE BULLETIN REPORTING SHEET

TITLE : AIR CONDITIONING - GENERAL - FLOW CONTROL AND INDICATING - REMOVE A
PRESSURE SENSE LINE FOR FLOW CONTROL VALVE

MODIFICATION No. : 31332K7283

Please complete the appropriate item (A or B):

A - SB WILL BE embodied YES/NO (if NO please comment)
If YES, aircraft concerned (as per SB effectivity by default) and planned dates
(month/year) of embodiment:

.

B - SB HAS BEEN embodied on aircraft:
.
.

Operator comments:
.
.

From Airline:
Name/Title:
Signature: Date:

If operational documentation is affected (see Paragraph 1.K of this SB): If
information is needed prior to next normal revision or prior to SB embodiment,
please indicate required service(s):

Either: Advance Data YES/NO

Or : Intermediate/Temporary revision. YES/NO

Important Information: This SB will only be incorporated in your maintenance and
operational documentation if this sheet is returned to Airbus Industrie and
signed by a duly authorised representative. With the next feasible revision,
this will result in

- updating of maintenance documentation to show pre and post SB data.
- updating of maintenance and operational documentation to show post SB data
after embodiment.

If this SB requires previous or simultaneous accomplishment of other SBs, Airbus
Industrie shall automatically include them in the manual revisions. Refer to SIL
00-037 for detailed information.

Please return this completed sheet to:

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1 Rond Point Maurice Bellonte
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Attn: AI/SE-D32 Technical Data and Documentation Services

FAX: (+33) 5 61 93 28 06

or via your Resident Customer Support Office.

Alternatively, SB lists via letters or fax are also accepted.

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SERVICE BULLETIN QUALITY PERCEPTION FORM

Use this form to tell us what is your perception of the quality of this Service Bulletin. The reported data that you provide us will be used to analyse areas of difficulties and to take corrective action to further improve the quality of our Service Bulletins.

We thank you for the time you have taken in completing this form.

(Please rate on a scale of 1 to 4, with 4 being the highest score)

- | | | | | |
|---|-------|---|---|---|
| - Quality rating of this SB | 4 | 3 | 2 | 1 |
| - Quality rating of the Accomplishment Instructions | 4 | 3 | 2 | 1 |
| - Quality rating of the Illustrations | 4 | 3 | 2 | 1 |
| - Is this SB easy to understand ? | Y / N | | | |

If you have had difficulties in the accomplishment of this SB please quote below the area(s) and give a short description of the issue.

Planning	Material	Instructions
X Effectivity	X Kit content	X Preparation
X Reason	X List of Materials	X Mod/Inspection
X Manpower	Operator Supplied	X Test
X References	X Re-identification	X Close-Up
X Publication	X Tooling	X Illustrations

Comments :

Operator :

Date:

Name/Title :

Please return this form to :

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Attn : AI/SE-T1 Service Bulletins Management
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Or via your Resident Customer Support Office.

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