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ATA SYSTEM : 21

TITLE : AIR CONDITIONING - FLOW CONTROL AND INDICATION - INSTALL MODIFIED FLOW  
CONTROL VALVE (FCV) PN 1303A0000-03

MODIFICATION No. : 31575K7453

This page transmits Revision No. 01 of Service Bulletin No. A320-21-1134.

#### ADDITIONAL WORK

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

#### REASON

This Revision is issued to advise operators that the intermixability has the same condition as the interchangeability if the sense line has been removed.

#### CHANGES

##### SUMMARY

##### - FIGURE

Detail B, TYPICAL added.

##### PLANNING INFORMATION

##### - EFFECTIVITY

Para. (1), aircraft model 319-113 deleted.

Para. (2), aircraft MSNs 1278, 1709, 1714, 1737, 1738, 1740, 1742, 1743, 1745 and 1746 deleted.

##### - INTERCHANGEABILITY/MIXABILITY

MIXABILITY changed to Yes.

In NOTE, Service Bulletin No. A320-21-1131, title (REMOVE A PRESSURE SENSE LINE FOR FLOW CONTROL VALVE) added.

##### MATERIAL INFORMATION

##### - LIST OF COMPONENTS

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# **A319/A320/A321**

## SERVICE BULLETIN REVISION TRANSMITTAL SHEET

In NOTE, Service Bulletin No. A320-21-1131, title (REMOVE A PRESSURE SENSE LINE FOR FLOW CONTROL VALVE) added.

### ACCOMPLISHMENT INSTRUCTIONS

#### – MODIFICATION

Figure 1 Sheet 1, Detail B, TYPICAL 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

No previous revisions.

### REVISION SEQUENCE

ORIGINAL : Nov 08/01

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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 - FLOW CONTROL AND INDICATION - INSTALL MODIFIED FLOW  
CONTROL VALVE (FCV) PN 1303A0000-03

MODIFICATION No. : 31575K7453

## REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Operators have reported further failures of the Flow Control Valve (FCV) after introduction of the FCV 1303A0000-02. These failures were identified subsequent to difficulties in starting the air conditioning packs, or "air pack 1 (2) fault" or "air pack 1 (2) regul fault" ECAM warnings. The fault was cleared by replacement of the FCV. Operators have also experienced cases where the opposite pack was set to default high flow.

This Service Bulletin advises operators of the issue of LIEBHERR-AEROSPACE Service Bulletin No. 1303-21-03 which details the procedure to replace the existing flow control valves 8HB and 11HB by modified valves. The new, improved valves incorporate numerous modifications including a new overpressure limitation clapper.

The accomplishment of this Service Bulletin will improve the reliability of the Flow Control Valve.

EVALUATION TABLE			
COMPLIANCE	Recommended	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	Yes
KIT PRICE (USD)	see SB		

## EFFECTIVITY

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

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# A319/A320/A321

## SERVICE BULLETIN SUMMARY

01Z 53Z AAR ACA AEF AES AFR AIB AIH AJM AMM AMU ANA AUA AWE AZA B2A BAW BES BMA  
C3J CBF CES CIB CJG CNW CRX CSC CSN CTN CYP DCS DGA DLH EDW EEZ EIN EWG F2I FFT  
FIN G4I GBL GWY HDA IBE IWD JBU JKK KZW LAJ LAN LBT LTE LTU LXR MAU MON MXA NWA  
QAF QTR SAB SAS SEU SHJ SLK SSV SYR TAI TAM TAP TAR TAS TWE TWJ UAL USA VIR VLE  
WGT

This modification is embodied before delivery on aircraft MSN 1747 and subsequent.

### CONCURRENT REQUIREMENTS

Service Bulletin(s) to be accomplished previously or simultaneously :

Service Bulletin No. A320-21-1131 Mod. No. 31332K7283

### REFERENCES/REPERCUSSIONS

TFU	: 21.51.51.007
OEB	: None
AOT	: None
SIL	: None
LIFE LIMIT	: None
LINE MAINTENANCE AFFECTED	: No
OTHERS	: None

### NATURE OF THE WORK

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

### MANPOWER

TOTAL MANHOURS	8.00
ELAPSED TIME (HOURS)	4.00

### MATERIAL INFORMATION

AIRCRAFT DATA  
Flow Control Valves

### APPENDICES

None

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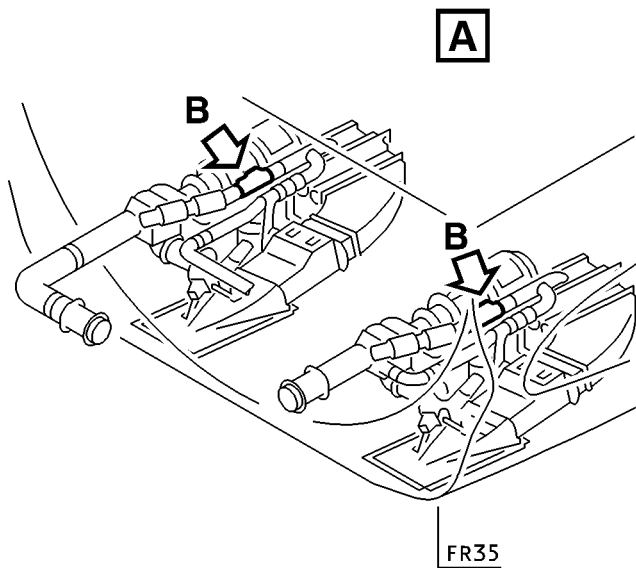
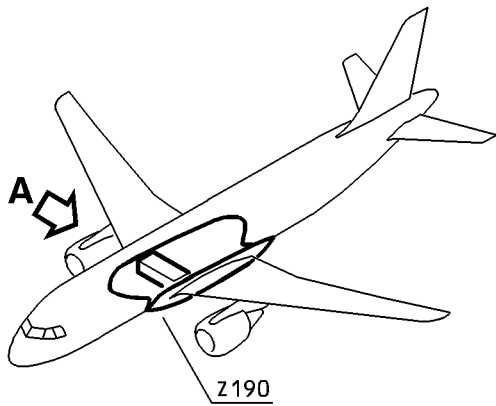
SERVICE BULLETIN No. : A320-21-1134

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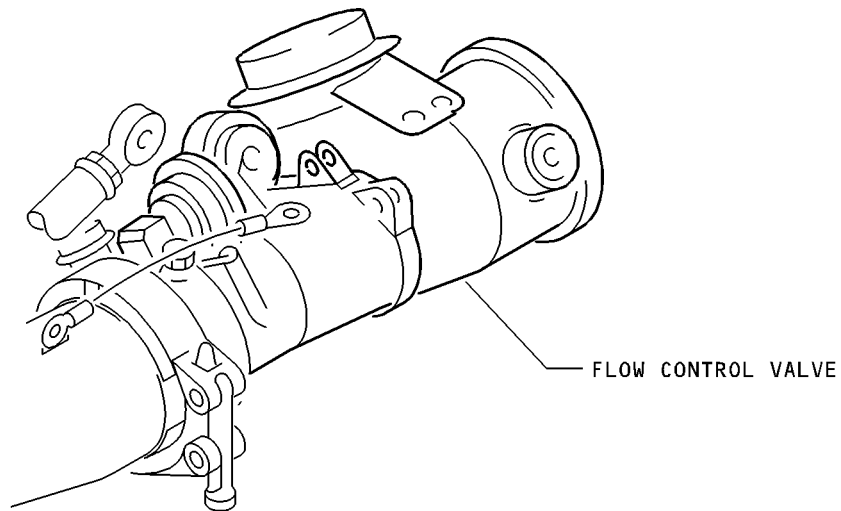
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# **A319/A320/A321**

## SERVICE BULLETIN SUMMARY



**B**  
TYPICAL



NB6 21 1134 AAMA-B

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ATA SYSTEM : 21

TITLE : AIR CONDITIONING - FLOW CONTROL AND INDICATION - INSTALL MODIFIED FLOW  
CONTROL VALVE (FCV) PN 1303A0000-03

MODIFICATION No. : 31575K7453

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### 1. PLANNING INFORMATION

#### A. EFFECTIVITY

##### (1) Models

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

##### (2) Aircraft

###### (a) Effectivity by MSN

This Service Bulletin is applicable to aircraft MSN :

0844 0861 0863 0868-0869 0872 0876 0878 0880-1277 1279-1598  
1600-1659 1661-1708 1710-1712 1715-1736 1739 1741 1744

NOTE : This modification is embodied before delivery on  
aircraft MSN 1747 and subsequent.

###### (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

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not be reflected in this list unless the Service Bulletin is revised for another reason.

OPERATOR	MSN
01Z	1589
53Z	1468
AAR	1060 1293 1356 1511 1636 1670 1734
ACA	1562 1577 1602 1611 1623 1630 1632 1638 1668 1673 1718 1719 1726
AEF	0954 0990 1004 1195 1199 1218 1370 1408 1421 1438 1459 1487
AES	0892 1635
AFR	0938 0956 0985 0998 1000 1020 1025 1036 1133 1151 1169 1176 1190 1201 1216 1267 1271 1299 1344 1404 1415 1444 1449 1471 1476 1502 1505 1524 1616 1622 1640 1645 1658 1677 1691 1699 1733
AIB	1656 1727
AIH	1238 1250
AJM	1213 1390 1503
AMM	1006 1017 1306 1320 1571 1605 1637 1720
AMU	0908
ANA	0963 1008 1042 1204 1227
AUA	0920 0935 1137 1150 1189 1387 1458 1478
AWE	0889 0924 0931 0953 1003 1043 1049 1050 1056 1064 1075 1079 1083 1088 1110 1111 1116 1166 1178 1196 1223 1234 1274 1281 1284 1323 1350 1373 1375 1395 1397 1406 1410 1419 1463 1490 1527 1534 1547 1552 1563 1565 1576 1621 1643 1644 1710
AZA	0940 0951 0959 0999 1138 1168 1217 1220 1226 1722
B2A	1429
BAW	1082 1115 1118 1142 1193 1197 1222 1225 1232 1236 1239 1258 1261 1279 1295 1329 1338 1380 1384 1423 1440 1445 1466 1510 1513 1529 1537 1558 1574 1590 1594 1604 1606 1661 1665 1689 1696 1708
BES	1256
BMA	0934 0968 0974 1014 1045 1153 1174 1177 1183 1207 1383 1407 1418 1424 1697 1732
C3J	0883 0914 0925
CBF	1596 1614
CES	1005 1028 1030 1070 1072 1093 1108 1285 1303 1312 1330 1357 1361 1377 1386 1532 1541 1542 1551 1601 1603 1639
CIB	0884 0894 0905 0957 0971 1381 1402 1416 1437



OPERATOR	MSN
CJG	0876 0921 1296 1654 1679
CNW	0897 0909 0939 0967 0984 0986 1041 1316 1345
CRX	0891 0987 1018 1144
CSC	0878 0915 0919 1013
CSN	0881 0895 0900 0950 0966 1035 1039 1057
CTN	1009 1029 1237 1252
CYP	1729
DCS	1053
DGA	1485 1556
DLH	0887 0901 1080 1161 1188 1214 1260 1273 1337 1365 1367
EDW	0942 0947 1026
EEZ	1448 1457 1473 1480 1489
EIN	0926 0991 1023 1094 1242 1394 1443 1467
EWG	1016 1172
F2I	1012 1054 1068 1081 1102 1124 1145 1160 1184 1283 1305 1336 1364 1388
FFT	1488 1515 1560 1579 1583 1684
FIN	0941 0961 1073 1107 1185 1241 1309 1352 1405 1470 1544 1588 1678 1712 1735
G4I	1002 1157
GBL	1215 1428 1433 1687 1715 1723
GWY	1564 1615 1725
HDA	0930 0993 1024 1253 1695 1721
IBE	0992 0994 1021 1027 1047 1059 1063 1067 1087 1099 1101 1119 1154 1180 1200 1208 1221 1229 1247 1255 1262 1288 1292 1318 1347 1362 1379 1396 1430 1454 1461 1484 1516 1530 1540 1550 1554 1572 1655 1674 1681 1694 1716 1736
IWD	0888 1578 1597 1657
JBU	1123 1156 1173 1235 1240 1257 1270 1280 1302 1327 1398 1446 1452 1464 1506 1528 1546 1557 1591 1610 1650 1652 1705 1739
JKK	1276 1333 1349 1366 1497 1631 1682
KZW	1048 1086
LAJ	1194 1690 1711
LAN	1304 1332 1351 1355 1491 1512 1526 1548 1568 1626
LBT	1121 1175 1744
LTE	1717
LTU	1385 1441 1493 1504 1553 1629

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OPERATOR	MSN
LXR	1439 1450 1494 1667
MAU	1592
MON	0983 1015 1202 1707
MXA	1612 1618 1625 1634 1706
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 1230 1249 1324 1325 1346 1392 1414 1434 1453 1456 1483 1498 1501 1520 1535 1543 1549 1567 1570 1582 1633 1641 1646 1659 1662 1683 1685 1693
QAF	0927 1335
QTR	0928 0932 0943 0977 1566 1648
SAB	0970 0995
SAS	1587 1619 1642 1675
SEU	0973 1692
SHJ	0910
SLK	0872 0899 0969 1074 1098 1228 1422 1561 1698
SSV	1411 1598 1686
SYR	0886 0918 1032 1076 1085 1117
TAI	0902 0912 0916 1007 1066 1113 1140 1159 1300 1334 1339 1353 1374 1400 1482 1500 1509 1523 1575 1624 1676 1730
TAM	0976 1010 1092 1096 1103 1139 1143 1158 1246 1251 1368 1376 1486 1518 1580 1593 1595 1608 1613 1628 1663 1672 1703
TAP	0906 0917 0933 0945 0960 0979 0982 1034 1100 1106 1120 1127 1165 1181 1206 1231 1307 1399
TAR	0869 0880 0958 0975 1187 1479 1700
TAS	0937 1372 1413
TWE	1130
TWJ	0913
UAL	0882 0893 0898 0944 0948 0952 0955 0965 0980 0989 1001 1022 1031 1104 1105 1128 1146 1163 1192 1211 1243 1248 1266 1272 1282 1290 1291 1321 1341 1343 1359 1363 1401 1409 1420 1426 1427 1432 1435 1460 1469 1474 1475 1477 1495 1507 1508 1514 1522 1533 1538 1545 1555 1559 1569 1573 1581 1584 1585 1586 1600 1609 1617 1620 1627 1647 1649 1653 1664 1669 1671 1680 1688 1702 1728 1731 1741

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OPERATOR	MSN
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 1224 1245 1254 1263 1264 1265 1268 1269 1275 1277 1286 1287 1289 1294 1297 1298 1301 1310 1311 1313 1314 1315 1317 1319 1326 1328 1331 1340 1342 1348 1354 1358 1360 1369 1371 1378 1382 1389 1391 1393 1403 1412 1417 1425 1431 1436 1442 1447 1455 1462 1465 1472 1481 1492 1496 1499 1517 1519 1521 1525 1531 1536 1539 1651 1666 1701 1704 1724
VIR	0978 1219 1233
VLE	1125 1132 1152 1162 1179 1198 1244 1259 1308 1322 1451 1607
WGT	1212

## (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

Service Bulletin(s) to be accomplished previously or simultaneously :

Service Bulletin No. A320-21-1131 Mod. No. 31332K7283

C. REASON

## (1) History

Operators have reported further failures of the Flow Control Valve (FCV) after introduction of the FCV 1303A0000-02. These failures were identified subsequent to difficulties in starting the air conditioning packs, or "air pack 1 (2) fault" or "air pack 1 (2) regul fault" ECAM warnings. The fault was cleared by replacement of the FCV. Operators have also experienced cases where the opposite pack was set to default high flow.

## (2) Objective/Action

This Service Bulletin advises operators of the issue of LIEBHERR-AEROSPACE Service Bulletin No. 1303-21-03 which details the procedure to replace the existing flow control valves 8HB and 11HB by modified valves. The new, improved valves incorporate

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numerous modifications including a new overpressure limitation clapper.

(3) Advantages

The accomplishment of this Service Bulletin will improve the reliability of the Flow Control Valve.

(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Remove/Install the Flow Control Valves (FCV) 8HB and 11HB.

E. COMPLIANCE

- (1) Classification

Recommended

- (2) Accomplishment Timescale

Accomplishment of this Service Bulletin is recommended at the earliest opportunity where manpower and facilities are available.

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	1.50
Modification	3.50
Test	1.50

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Close-up	1.50
TOTAL MANHOURS	8.00
ELAPSED TIME (HOURS)	4.00

### H. WEIGHT AND BALANCE

Not changed

### I. ELECTRICAL LOAD DATA

Not changed

### J. REFERENCES

Aircraft Maintenance Manual (AMM) : 12-33-21 12-34-24 21-51-51  
53-35-13

LIEBHERR AEROSPACE SB : 1303-21-03

Service Bulletin (SB) : A320-21-1131

### K. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual (AMM) : 21-51-51

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

### L. INTERCHANGEABILITY/MIXABILITY

DESCRIPTION	OLD PART No.	NEW PART No.	INT	MIXABILITY
flow cont. valve	1303A0000-02	1303A0000-03	02	Yes

NOTE : The interchangeability code and mixability are only applicable if Service Bulletin No. A320-21-1131 (REMOVE A PRESSURE SENSE LINE FOR FLOW CONTROL VALVE) is accomplished.

NOTE : For the definitions of interchangeability codes in the column INT. refer to ATA 200 Chapter 1A-2.

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**2. MATERIAL INFORMATION****A. MATERIAL – PRICE AND AVAILABILITY****(1) Material**

Modification of removed equipment should be negotiated directly with LIEBHERR-AEROSPACE TOULOUSE as per instructions given in Service Bulletin No. 1303-21-03.

**(2) Price and Availability**

Refer to the vendor Service Bulletin No. 1303-21-03 for the equipment modification sales terms.

**B. INDUSTRY SUPPORT INFORMATION**

None

**C. LIST OF COMPONENTS**

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
1	1303A0000-03	2		FCV	(1)	1303A0000-02		02	

NOTE : The interchangeability code is only applicable if Service Bulletin No. A320-21-1131 (REMOVE A PRESSURE SENSE LINE FOR FLOW CONTROL VALVE) is accomplished.

NOTE : For the definitions of interchangeability codes in the column INT. refer to ATA 200 Chapter 1A-2.

**D. LIST OF MATERIALS – OPERATOR SUPPLIED**

To accomplish this Service Bulletin it is necessary to use the expendable parts listed in the AMM 21-51-51 Page block 401.

**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.

**WARNING** : MAKE SURE THAT AIR IS NOT SUPPLIED TO THE AIR CONDITIONING SYSTEM FROM THE MAIN ENGINE, THE APU OR A GROUND SOURCE.

HOT COMPRESSED AIR CAN CAUSE INJURY TO PERSONNEL.

##### (1) Preparation

- (a) Make sure that the aircraft is electrically grounded, refer to AMM 12-34-24 Page block 201.
- (b) Open, safety and tag the circuit breakers, refer to AMM 21-51-51 Page block 401.
- (c) Remove the access panels 191BB, 191KB and 192KB, refer to AMM 53-35-13 Page block 401.

##### (2) Standard Practices

None

#### B. MODIFICATION

##### (1) Removal/Installation of the Flow Control Valve (FCV) 8HB and 11HB.

- (a) Remove, refer to AMM 21-51-51 Page block 401 :

2 FCV 1303A0000-02 Item (1)

- (b) Modify the FCVs, refer to LIEBHERR AEROSPACE Service Bulletin No. 1303-21-03.

- (c) Install, refer to AMM 21-51-51 Page block 401 :

2 FCV 1303A0000-03 Item 1

#### C. TEST

- (1) Close the circuit breakers, refer to AMM 21-51-51 Page block 401.
- (2) Do the pre-conditioning through the HP ground connection or with the APU, refer to AMM 12-33-21 Page block 201.
- (3) Do a leak check of the pack flow control valve and sense line connections.

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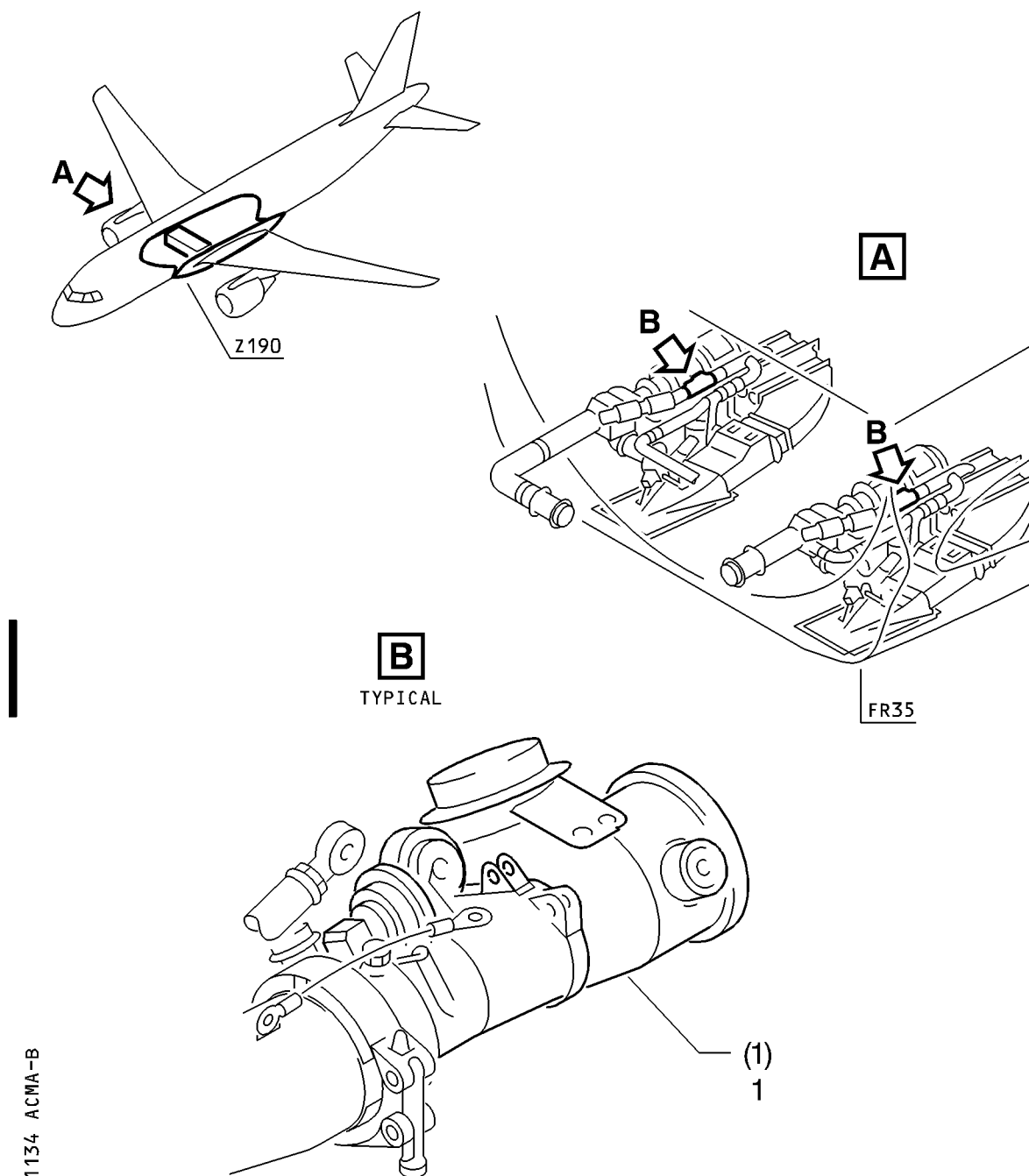


**D. CLOSE UP**

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) Install the access panels 191KB, 191BB and 192KB, refer to AMM 53-35-13 Page block 401.

**E. DOCUMENTATION**

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



NB6 21 1134 ACMA-B

Figure 1 Sheet 1  
Removal/Installation of the Flow Control Valves 8HB and 11HB

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TITLE : AIR CONDITIONING - FLOW CONTROL AND INDICATION - INSTALL MODIFIED FLOW  
CONTROL VALVE (FCV) PN 1303A0000-03

MODIFICATION No. : 31575K7453

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:

AIRBUS INDUSTRIE  
CUSTOMER SERVICES DIRECTORATE  
1 Rond Point Maurice Bellonte  
31707 BLAGNAC CEDEX FRANCE

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.



# A319/A320/A321

## 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 :

AIRBUS INDUSTRIE  
CUSTOMER SERVICES DIRECTORATE  
1 Rond Point Maurice Bellonte  
31707 BLAGNAC  
Attn : AI/SE-T1 Service Bulletins Management  
FAX : (33) 5 61 93 42 51

Or via your Resident Customer Support Office.

6 DATE : Nov 08/01

SERVICE BULLETIN No. : A320-21-1134

REVISION No. : 01 - Jan 27/03

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