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SERVICE BULLETIN

SUMMARY

AIRBUS INDUSTRIE

CUSTOMER SERVICES DIRECTORATE

1 Rond Point Maurice Bellonte

31707 BLAGNAC CEDEX FRANCE

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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 - PRESSURE CONTROL - INTRODUCE MODIFIED OUTFLOW VALVE

P/N 20790-02AC

MODIFICATION No . : 32112K7752 32113K7753

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

After introduction of an improved Cabin Pressure Controller (CPC), operators

reported that the number of replacements of the OutFlow Valve (OFV) had

increased . Most of the replacements were because of the Fault Code (FC) 81

(actuator loop closure failure) .

The improved CPCs incorporated a very sharp and efficient FC 81 Built In Test

Monitor to minimize the possibility of loss of cabin pressure .

One of the main causes of FC 81 is the mechanical backlash between the coupling

of the OFV gearbox of the feedback potentiometer . Other factors that can lead to

FC 81 are the design/manufacture quality of the feedback potentiometer and the

tracking logic of the position control concept in the software of the actuator

electronics .

This Service Bulletin advises operators of the release of the Nord-Micro Service

Bulletin 20790-21-002 .

This Vendor Service Bulletin permits the operator to:

— Do the complete modification to the OFV (P/N 20790-01AA) in the repair shop

(Post Mod P/N 20790-02AC)

— Do the complete modification to the OFV (P/N 20790-02AB) in the repair shop

(Post Mod P/N 20790-02AC)

— Do a temporary modification to the OFV (P/N 20790-01AA) on the aircraft (Post

Mod P/N 20790-01AC)

NOTE : The temporary modification installs the new electronic boxes on the

OFV, to keep the downtime of the aircraft to a minimum, but will not

solve the FC81 problem .

— Complete the modification to the OFV (P/N 20790-01AC) in the repair shop (Post

Mod P/N 20790-02AC) .

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Complete accomplishment of this Vendor Service Bulletin will decrease the

number of FC 81 occurrences and thus decrease the number of OFV replacements .

|  |  |  |  |
| --- | --- | --- | --- |
| EVALUATION TABLE | | | |
| COMPLIANCE | DESIRABLE | CANCELS INSPECTION SB | NO |
| POTENTIAL AD | NO | A/C OPERATION AFFECTED | NO |
| RELIABILITY AFFECTED | YES | 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

01Z 53Z AAA AAR ACA ADR AEF AES AFR

AZA B2A BAW BES BMA C3J C9G CBF CES

EDW EEZ EIN EWG F2I FFT FIN G2X G4I

KAC KZW LAJ LAN LBT LTE LTU LXR MAU

QTR RJA RYN S2A SAB SAS SEU SHJ SHK

USA VIR VLE WGT

CONCURRENT REQUIREMENTS

None

REFERENCES/REPERCUSSIONS

to these operator(s) :

AIB AIH AJM ALK AMC AMM AMU ANA AUA AWE AWQ

CIB CJG CMM CNW CSC CSN CTN CYP DCS DGA DLH

GBL GFA GWY HDA HVN IAC IBE IWD JBU JKK JMC

MEA MON MSR MXA NWA O2X OHY OYC PAL PIC QAF

SSV SWR SYR TAI TAM TAP TAR TAS TNA TWJ UAL

TFU

OEB

AOT

SIL

LIFE LIMIT

: 21 .31 . 51 .015

: None

: None

: None

: None

LINE MAINTENANCE AFFECTED : No

OTHERS : None

NATURE OF THE WORK

AIRCRAFT : NO

EQUIPMENT : YES

HARD : NO

SOFT : NO

OBRM : NO

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SUMMARY

MANPOWER

For complete modification of the OFV, P/N 20790-01AA and P/N 20790-02AB, and to

complete the modification to the OFV, P/N 20790-01AC .

TOTAL MANHOURS

ELAPSED TIME (HOURS)

NOTE : Refer to Nord-Micro Service Bulletin 20790-21-002 .

For the temporary modification of the OFV, P/N 20790-01AA .

TOTAL MANHOURS

ELAPSED TIME (HOURS)

NOTE : Refer to Nord-Micro Service Bulletin 20790-21-002 . MATERIAL INFORMATION

AIRCRAFT DATA

None .

APPENDICES

None

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CUSTOMER SERVICES DIRECTORATE

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31707 BLAGNAC CEDEX FRANCE

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Fax : (33) 5 61 93 42 51

ATA SYSTEM : 21

TITLE : AIR CONDITIONING - PRESSURE CONTROL - INTRODUCE MODIFIED OUTFLOW VALVE

P/N 20790-02AC

MODIFICATION No . : 32112K7752 32113K7753

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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

320-111 320-211 320-212 320-214 320-231 320-232 320-233 321-111

321-112 321-131 321-211 321-231 321-232

(2) Aircraft

(a) Effectivity by MSN

This Service Bulletin is applicable to aircraft MSN :

0002-0008 0010-0014 0016-0078 0080-0104 0106-0373 0375-0432

0434-0480 0482-0535 0537-0707 0709-1277 1279-1598 1600-1659

1661-1823

(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 Industrie . 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  01Z | MSN  1589 |  |  |  |  |  |  |  |  |  |
| 53Z | 1468 |  |  |  |  |  |  |  |  |  |
| AAA | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0029 | 0030 | 0140 | 0142 |
|  | 0157 | 0229 | 0288 | 0331 | 0547 | 0615 | 0622 | 0632 | 0662 | 0726 |
| AAR | 0771 | 0855 | 1060 | 1293 | 1356 | 1511 | 1636 | 1670 | 1734 |  |
| ACA | 0059 | 0068 | 0073 | 0084 | 0122 | 0126 | 0127 | 0141 | 0149 | 0150 |
|  | 0154 | 0159 | 0174 | 0175 | 0183 | 0210 | 0231 | 0232 | 0233 | 0242 |
|  | 0248 | 0253 | 0254 | 0255 | 0265 | 0277 | 0279 | 0283 | 0284 | 0290 |
|  | 0302 | 0305 | 0309 | 0310 | 0311 | 0324 | 0330 | 0333 | 0341 | 0342 |
|  | 0350 | 0359 | 0378 | 0384 | 0403 | 0404 | 0426 | 0546 | 0572 | 0634 |
|  | 0639 | 0649 | 0656 | 0670 | 0672 | 0682 | 0688 | 0691 | 0693 | 0695 |
|  | 0697 | 0711 | 0719 | 0721 | 0728 | 0732 | 0736 | 0740 | 0742 | 0752 |
|  | 0757 | 0769 | 0773 | 0779 | 0785 | 0800 | 0813 | 0817 | 0829 | 0831 |
|  | 0840 | 0845 | 1562 | 1577 | 1602 | 1611 | 1623 | 1630 | 1632 | 1638 |
|  | 1668  1783 | 1673  1805 | 1718  1811 | 1719 | 1726 | 1742 | 1748 | 1756 | 1765 | 1772 |
| ADR | 0043 | 0113 | 0114 |  |  |  |  |  |  |  |
| AEF | 0565 | 0575 | 0580 | 0659 | 0661 | 0667 | 0787 | 0792 | 0954 | 0990 |
|  | 1004 | 1195 | 1199 | 1218 | 1408 | 1421 | 1438 | 1459 | 1487 |  |
| AES | 0739 | 0743 | 0839 | 0892 | 1635 |  |  |  |  |  |
| AFR | 0002 | 0003 | 0004 | 0005 | 0007 | 0010 | 0012 | 0013 | 0014 | 0016 |
|  | 0019 | 0020 | 0021 | 0033 | 0036 | 0044 | 0061 | 0062 | 0063 | 0100 |
|  | 0101 | 0102 | 0108 | 0115 | 0128 | 0129 | 0130 | 0131 | 0133 | 0144 |
|  | 0145 | 0155 | 0156 | 0184 | 0186 | 0187 | 0188 | 0203 | 0204 | 0211 |
|  | 0214 | 0215 | 0220 | 0226 | 0227 | 0228 | 0235 | 0236 | 0237 | 0239 |
|  | 0244 | 0270 | 0278 | 0285 | 0286 | 0287 | 0337 | 0352 | 0377 | 0491 |
|  | 0498 | 0509 | 0521 | 0529 | 0544 | 0598 | 0600 | 0608 | 0618 | 0625 |
|  | 0637 | 0644 | 0647 | 0660 | 0674 | 0675 | 0684 | 0761 | 0777 | 0796 |
|  | 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  1795 | 1665 | 1676 | 1703 | 1708 | 1727 | 1730 | 1769 | 1779 | 1787 |
| AIH | 0163 | 0164 | 0168 | 0169 | 0179 | 0193 | 0362 | 0363 | 0424 | 0444 |
|  | 0449 | 0808 | 0823 | 1238 | 1250 |  |  |  |  |  |
| AJM | 0422  1503 | 0528  1747 | 0624  1751 | 0626 | 0628 | 0630 | 0666 | 0775 | 1213 | 1390 |
| ALK | 0406 |  |  |  |  |  |  |  |  |  |
| AMC | 0112 | 0293 |  |  |  |  |  |  |  |  |
| AMM | 0677  1720 | 0781  1777 | 0852 | 1006 | 1017 | 1306 | 1320 | 1571 | 1605 | 1637 |
| AMU | 0550 | 0557 | 0573 | 0582 | 0620 | 0631 | 0805 | 0908 | 1758 | 1790 |

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| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| ANA | 0138 | 0139 | 0148 | 0151 | 0167 | 0170 | 0196 | 0212 | 0219 | 0245 |
|  | 0300 | 0328 | 0365 | 0383 | 0413 | 0482 | 0501 | 0507 | 0531 | 0534 |
|  | 0549  1204 | 0554  1227 | 0658 | 0669 | 0685 | 0802 | 0811 | 0963 | 1008 | 1042 |
| AUA | 0552  1189 | 0570  1387 | 0581  1458 | 0768  1478 | 0776 | 0797 | 0920 | 0935 | 1137 | 1150 |
| AWE | 0052 | 0053 | 0054 | 0055 | 0064 | 0065 | 0066 | 0067 | 0076 | 0077 |
|  | 0081 | 0082 | 0091 | 0092 | 0098 | 0099 | 0238 | 0271 | 0315 | 0317 |
|  | 0448 | 0455 | 0471 | 0527 | 0543 | 0584 | 0762 | 0770 | 0803 | 0856 |
|  | 0866 | 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 | 1764 | 1792 |
| AWQ | 0542 |  |  |  |  |  |  |  |  |  |
| AZA | 0434 | 0477 | 0488 | 0494 | 0495 | 0513 | 0514 | 0515 | 0516 | 0524 |
|  | 0526 | 0532 | 0576 | 0583 | 0586 | 0593 | 0599 | 0765 | 0819 | 0848 |
|  | 0940  1740 | 0951  1745 | 0959  1770 | 0999 | 1138 | 1168 | 1217 | 1220 | 1226 | 1722 |
| B2A | 1494 |  |  |  |  |  |  |  |  |  |
| BAW | 0006 | 0008 | 0011 | 0017 | 0018 | 0039 | 0042 | 0103 | 0109 | 0120 |
|  | 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 | 1689 | 1696 | 1760 | 1782 | 1814 |  |
| BES | 1256 |  |  |  |  |  |  |  |  |  |
| BMA | 0806 | 0810 | 0835 | 0864 | 0934 | 0968 | 0974 | 1014 | 1045 | 1153 |
|  | 1174 | 1177 | 1183 | 1207 | 1383 | 1407 | 1418 | 1424 | 1697 | 1732 |
| C3J | 0772 | 0799 | 0828 | 0883 | 0914 | 0925 |  |  |  |  |
| C9G | 0460 | 1625 |  |  |  |  |  |  |  |  |
| CBF | 1596 | 1614 | 1776 | 1788 |  |  |  |  |  |  |
| CES | 1005 | 1028 | 1030 | 1070 | 1072 | 1093 | 1108 | 1285 | 1303 | 1312 |
|  | 1330  1603 | 1357  1639 | 1361  1778 | 1377  1786 | 1386 | 1532 | 1541 | 1542 | 1551 | 1601 |
| CIB | 0774  1416 | 0793  1437 | 0809 | 0884 | 0894 | 0905 | 0957 | 0971 | 1381 | 1402 |
| CJG | 0707 | 0724 | 0876 | 0921 | 1296 | 1654 | 1679 |  |  |  |
| CMM | 0132 | 0397 | 0409 | 1686 | 1706 | 1750 | 1753 |  |  |  |
| CNW | 0665  1041 | 0754  1316 | 0838  1345 | 0854 | 0897 | 0909 | 0939 | 0967 | 0984 | 0986 |
| CSC | 0540 | 0551 | 0556 | 0878 | 0915 | 0919 | 1013 |  |  |  |
| CSN | 0696 | 0698 | 0704 | 0705 | 0709 | 0710 | 0712 | 0718 | 0720 | 0722 |
|  | 0849 | 0859 | 0881 | 0895 | 0900 | 0950 | 0966 | 1035 | 1039 | 1057 |
| CTN | 0258 | 0767 | 0833 | 1009 | 1029 | 1237 | 1252 |  |  |  |

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| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| CYP | 0028  1729 | 0035  1768 | 0037 | 0038 | 0180 | 0256 | 0295 | 0316 | 0414 | 0430 |
| DCS | 1053 |  |  |  |  |  |  |  |  |  |
| DGA | 1485 | 1556 |  |  |  |  |  |  |  |  |
| DLH | 0069 | 0070 | 0071 | 0072 | 0078 | 0083 | 0086 | 0093 | 0094 | 0104 |
|  | 0110 | 0111 | 0116 | 0117 | 0135 | 0137 | 0147 | 0161 | 0162 | 0172 |
|  | 0200 | 0201 | 0202 | 0209 | 0216 | 0217 | 0218 | 0267 | 0268 | 0269 |
|  | 0346 | 0382 | 0401 | 0412 | 0458 | 0468 | 0473 | 0474 | 0484 | 0493 |
|  | 0502 | 0505 | 0518 | 0560 | 0563 | 0564 | 0567 | 0595 | 0609 | 0610 |
|  | 0616 | 0623 | 0627 | 0636 | 0652 | 0689 | 0692 | 0694 | 0699 | 0700 |
|  | 0717 | 0723 | 0729 | 0738 | 0744 | 0853 | 0860 | 0875 | 0887 | 0901 |
|  | 1080 | 1161 | 1188 | 1214 | 1260 | 1273 | 1337 | 1365 | 1367 |  |
| EDW | 0942 | 0947 | 1026 |  |  |  |  |  |  |  |
| EEZ | 1448 | 1457 | 1473 | 1480 | 1489 |  |  |  |  |  |
| EIN | 0815 | 0841 | 0926 | 0991 | 1023 | 1094 | 1242 | 1394 | 1443 | 1467 |
| EWG | 0646 | 0654 | 0794 | 1016 | 1172 |  |  |  |  |  |
| F2I | 1054 | 1086 | 1364 |  |  |  |  |  |  |  |
| FFT | 1488  1803 | 1515 | 1560 | 1579 | 1583 | 1684 | 1743 | 1759 | 1761 | 1781 |
| FIN | 0941 | 0961 | 1073 | 1107 | 1185 | 1241 | 1309 | 1352 | 1405 | 1470 |
|  | 1544 | 1588 | 1678 | 1712 | 1735 | 1791 | 1808 |  |  |  |
| G2X | 0249 | 1612 |  |  |  |  |  |  |  |  |
| G4I | 1002 | 1157 |  |  |  |  |  |  |  |  |
| GBL | 1215 | 1428 | 1433 | 1687 | 1715 | 1723 | 1754 |  |  |  |
| GFA | 0313  0497 | 0325  0537 | 0345 | 0375 | 0419 | 0421 | 0438 | 0445 | 0459 | 0466 |
| GWY | 1564 | 1615 | 1725 |  |  |  |  |  |  |  |
| HDA | 0633  1695 | 0756  1721 | 0784 | 0812 | 0816 | 0877 | 0930 | 0993 | 1024 | 1253 |
| HVN | 0590  0648 | 0591  0650 | 0594 | 0597 | 0601 | 0605 | 0607 | 0611 | 0617 | 0619 |
| IAC | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | 0051 | 0056 | 0057 | 0058 |
|  | 0074 | 0075 | 0080 | 0089 | 0090 | 0095 | 0096 | 0097 | 0247 | 0257 |
|  | 0327  0486 | 0336  0490 | 0396  0492 | 0398  0499 | 0416 | 0423 | 0431 | 0432 | 0451 | 0469 |
| IBE | 0134 | 0136 | 0143 | 0146 | 0158 | 0173 | 0176 | 0177 | 0199 | 0207 |
|  | 0223 | 0224 | 0240 | 0241 | 0246 | 0264 | 0266 | 0274 | 0303 | 0312 |
|  | 0323 | 0356 | 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 | 1793 | 1809 |  |  |
| IWD | 0225 | 0308 | 0314 | 0879 | 0888 | 1578 | 1597 | 1657 | 1767 |  |

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| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| 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 | 1784 | 1785 | 1802 | 1823 |  |  |
| JKK | 1276 | 1333 | 1349 | 1366 | 1497 | 1631 | 1682 | 1749 |  |  |
| JMC | 0354 | 0357 | 0443 | 0716 |  |  |  |  |  |  |
| KAC | 0181 | 0182 | 0195 |  |  |  |  |  |  |  |
| KZW | 0641 | 0651 | 0679 |  |  |  |  |  |  |  |
| LAJ | 0376 | 0386 | 0480 | 1194 | 1690 | 1711 |  |  |  |  |
| LAN | 1304 | 1332 | 1351 | 1355 | 1491 | 1512 | 1526 | 1548 | 1568 | 1626 |
| LBT | 1121 | 1175 | 1744 |  |  |  |  |  |  |  |
| LTE | 1717 | 1775 |  |  |  |  |  |  |  |  |
| LTU | 0530 | 1385 | 1441 | 1493 | 1504 | 1553 | 1629 | 1762 | 1797 | 1806 |
| LXR | 0191 | 0395 | 1667 |  |  |  |  |  |  |  |
| MAU | 1592 |  |  |  |  |  |  |  |  |  |
| MEA | 0640 | 0663 | 0668 | 0676 | 0760 |  |  |  |  |  |
| MON | 0379 | 0389 | 0391 | 0392 | 0446 | 0983 | 1015 | 1202 | 1707 | 1763 |
| MSR | 0165  0725 | 0166 | 0178 | 0194 | 0198 | 0351 | 0366 | 0680 | 0687 | 0715 |
| MXA | 0252 | 0259 | 0260 | 0261 | 0275 | 0276 | 0280 | 0291 | 0292 | 0296 |
|  | 0320 | 0321 | 0332 | 0347 | 0353 | 0361 | 0368 | 0369 | 0373 | 0405 |
|  | 0415 | 0428 | 0467 | 1618 | 1634 |  |  |  |  |  |
| NWA | 0031 | 0032 | 0034 | 0040 | 0041 | 0060 | 0106 | 0107 | 0118 | 0121 |
|  | 0125 | 0152 | 0153 | 0160 | 0171 | 0192 | 0197 | 0206 | 0208 | 0213 |
|  | 0262 | 0263 | 0272 | 0273 | 0281 | 0282 | 0297 | 0298 | 0306 | 0307 |
|  | 0318 | 0319 | 0329 | 0339 | 0340 | 0355 | 0358 | 0360 | 0367 | 0372 |
|  | 0380 | 0381 | 0387 | 0388 | 0399 | 0400 | 0408 | 0410 | 0417 | 0418 |
|  | 0766 | 0778 | 0786 | 0801 | 0807 | 0818 | 0830 | 0832 | 0846 | 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 | 1709 | 1714 | 1738 | 1746 | 1752 | 1766 | 1774 | 1789 |
|  | 1796 | 1800 | 1810 | 1812 | 1815 | 1819 | 1820 |  |  |  |
| O2X | 0304 |  |  |  |  |  |  |  |  |  |
| OHY | 0364 | 0385 |  |  |  |  |  |  |  |  |
| OYC | 0221 | 0222 | 0294 | 0299 | 0301 | 0348 | 0349 |  |  |  |
| PAL | 0706 | 0745 | 0753 |  |  |  |  |  |  |  |
| PIC | 0604 | 0614 |  |  |  |  |  |  |  |  |
| QAF | 0927 | 1335 |  |  |  |  |  |  |  |  |
| QTR | 0928 | 0932 | 0943 | 0977 | 1566 | 1648 | 1773 |  |  |  |
| RJA | 0087 | 0088 | 0289 | 0407 | 0569 |  |  |  |  |  |

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|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| RYN | 0393 | 0394 | 0411 | 0714 | 0730 | 0735 |  |  |  |  |
| S2A | 1413 | 1429 | 1439 | 1450 |  |  |  |  |  |  |
| SAB | 0970 | 0995 | 1012 | 1048 | 1068 | 1081 | 1102 | 1124 | 1145 | 1160 |
|  | 1184 | 1283 | 1305 | 1336 | 1370 | 1388 |  |  |  |  |
| SAS | 1587 | 1619 | 1642 | 1675 | 1798 | 1807 | 1817 |  |  |  |
| SEU | 0653 | 0657 | 0737 | 0749 | 0973 | 1692 |  |  |  |  |
| SHJ | 0910 |  |  |  |  |  |  |  |  |  |
| SHK | 0322 | 0326 | 0344 | 0478 |  |  |  |  |  |  |
| SLK | 0872 | 0899 | 0969 | 1074 | 1098 | 1228 | 1422 | 1561 | 1698 |  |
| SSV | 0230 | 0338 | 0427 | 0429 | 0437 | 0447 | 0476 | 0496 | 0525 | 0579 |
|  | 0645 | 0671 | 0795 | 1411 | 1598 | 1780 |  |  |  |  |
| SWR | 0517 | 0519 | 0520 | 0522 | 0533 | 0535 | 0541 | 0545 | 0548 | 0553 |
|  | 0559 | 0562 | 0566 | 0574 | 0577 | 0578 | 0585 | 0588 | 0596 | 0603 |
|  | 0612 | 0621 | 0629 | 0635 | 0642 | 0643 | 0664 | 0673 | 0681 | 0701 |
|  | 0703  1144 | 0713 | 0727 | 0734 | 0782 | 0827 | 0870 | 0891 | 0987 | 1018 |
| SYR | 0886 | 0918 | 1032 | 1076 | 1085 | 1117 |  |  |  |  |
| TAI | 0425 | 0461 | 0558 | 0561 | 0733 | 0741 | 0747 | 0789 | 0874 | 0902 |
|  | 0912 | 0916 | 1007 | 1066 | 1113 | 1140 | 1159 | 1300 | 1334 | 1339 |
|  | 1353 | 1374 | 1400 | 1482 | 1500 | 1509 | 1523 | 1575 | 1608 | 1624 |
| TAM | 0243 | 0250 | 0251 | 0334 | 0335 | 0440 | 0453 | 0758 | 0976 | 1010 |
|  | 1092 | 1096 | 1103 | 1139 | 1143 | 1158 | 1246 | 1251 | 1368 | 1376 |
|  | 1486  1801 | 1518  1804 | 1580  1818 | 1593 | 1595 | 1613 | 1628 | 1663 | 1672 | 1771 |
| TAP | 0185 | 0234 | 0750 | 0755 | 0763 | 0790 | 0821 | 0837 | 0906 | 0917 |
|  | 0933 | 0945 | 0960 | 0979 | 0982 | 1034 | 1100 | 1106 | 1120 | 1127 |
|  | 1165 | 1181 | 1206 | 1231 | 1307 | 1399 | 1713 | 1799 | 1816 |  |
| TAR | 0119 | 0123 | 0124 | 0205 | 0370 | 0390 | 0402 | 0511 | 0869 | 0880 |
|  | 0958 | 0975 | 1187 | 1479 | 1700 |  |  |  |  |  |
| TAS | 0371 | 0814 | 0937 | 1372 |  |  |  |  |  |  |
| TNA | 0441 | 0538 | 0555 | 0602 | 0606 | 0731 | 0746 | 0791 | 0822 |  |
| TWJ | 0913 |  |  |  |  |  |  |  |  |  |

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SERVICE BULLETIN

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| UAL | 0435 | 0439 | 0442 | 0450 | 0452 | 0454 | 0456 | 0457 | 0462 | 0463 |
|  | 0464 | 0465 | 0470 | 0472 | 0475 | 0479 | 0483 | 0485 | 0487 | 0489 |
|  | 0500 | 0503 | 0504 | 0506 | 0508 | 0510 | 0512 | 0523 | 0539 | 0568 |
|  | 0571 | 0587 | 0589 | 0592 | 0613 | 0638 | 0655 | 0678 | 0683 | 0686 |
|  | 0690 | 0702 | 0748 | 0751 | 0759 | 0780 | 0783 | 0788 | 0798 | 0804 |
|  | 0820 | 0824 | 0825 | 0826 | 0834 | 0836 | 0842 | 0843 | 0847 | 0850 |
|  | 0851 | 0857 | 0858 | 0862 | 0865 | 0867 | 0871 | 0873 | 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 | 1737 | 1741 | 1755 | 1821 |  |  |
| 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  1822 | 1536 | 1539 | 1651 | 1666 | 1701 | 1704 | 1724 | 1794 | 1813 |
| VIR | 0764 | 0978 | 1130 | 1219 | 1233 |  |  |  |  |  |
| VLE | 0085 | 0189 | 0190 | 0343 | 0420 | 0436 | 1125 | 1132 | 1152 | 1162 |
|  | 1179 | 1198 | 1244 | 1259 | 1308 | 1322 | 1451 | 1607 | 1757 |  |

WGT 1212

(c) Effectivity by MSN and Kit/Configuration

None

(3) Spares

Valve

Valve

Valve

B . CONCURRENT REQUIREMENTS

None

20790-01AA

20790-02AB

20790-01AC

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SERVICE BULLETIN

C . REASON

(1) History

After introduction of an improved Cabin Pressure Controller (CPC),

operators reported that the number of replacements of the OutFlow

Valve (OFV) had increased . Most of the replacements were because of

the Fault Code (FC) 81 (actuator loop closure failure) .

The improved CPCs incorporated a very sharp and efficient FC 81

Built In Test Monitor to minimize the possibility of loss of cabin

pressure .

One of the main causes of FC 81 is the mechanical backlash between

the coupling of the OFV gearbox of the feedback potentiometer .

Other factors that can lead to FC 81 are the design/manufacture

quality of the feedback potentiometer and the tracking logic of the

position control concept in the software of the actuator

electronics .

(2) Objective/Action

This Service Bulletin advises operators of the release of the

Nord-Micro Service Bulletin 20790-21-002 .

This Vendor Service Bulletin permits the operator to:

— Do the complete modification to the OFV (P/N 20790-01AA) in the

repair shop (Post Mod P/N 20790-02AC)

— Do the complete modification to the OFV (P/N 20790-02AB) in the

repair shop (Post Mod P/N 20790-02AC)

— Do a temporary modification to the OFV (P/N 20790-01AA) on the

aircraft (Post Mod P/N 20790-01AC)

NOTE : The temporary modification installs the new electronic

boxes on the OFV, to keep the downtime of the aircraft to

a minimum, but will not solve the FC81 problem .

— Complete the modification to the OFV (P/N 20790-01AC) in the

repair shop (Post Mod P/N 20790-02AC) .

(3) Advantages

Complete accomplishment of this Vendor Service Bulletin will

decrease the number of FC 81 occurrences and thus decrease the

number of OFV replacements .

(4) Operational/Maintenance Consequences

None

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SERVICE BULLETIN

D . DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

(1) For complete modification of the OFV (P/N 20790-01AA) .

(a) Remove the valve .

(b) Do the modification to the outflow valve 10HL, refer to

Nord-Micro Service Bulletin 20790-21-002 , Procedure No . 1.

(c) Reidentify the valve, refer to Para . 2E .

(d) Install the valve .

(2) For complete modification of the OFV (P/N 20790-02AB) .

(a) Remove the valve .

(b) Do the modification to the outflow valve 10HL, refer to

Nord-Micro Service Bulletin 20790-21-002 , Procedure No . 2.

(c) Reidentify the valve, refer to Para . 2E .

(d) Install the valve .

(3) For the temporary modification of the OFV (P/N 20790-01AA) .

(a) Do the modification to the outflow valve 10HL, refer to

Nord-Micro Service Bulletin 20790-21-002 , Procedure No . 3.

NOTE : The temporary modification installs the new electronic

boxes on the OFV, to keep the downtime of the aircraft

to a minimum, but will not solve the FC81 problem .

(b) Reidentify the valve, refer to Para . 2E .

(4) To complete the modification of the OFV (P/N 20790-01AC) .

(a) Remove the valve .

(b) Do the modification to the outflow valve 10HL, refer to

Nord-Micro Service Bulletin 20790-21-002 , Procedure No . 4.

(c) Reidentify the valve, refer to Para . 2E .

(d) Install the valve .

E . COMPLIANCE

(1) Classification

Desirable .

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SERVICE BULLETIN

(2) Accomplishment Timescale

In accordance with operators' maintenance schedule .

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 .

For complete modification of the OFV, P/N 20790-01AA and P/N 20790-02AB,

and to complete the modification to the OFV, P/N 20790-01AC .

Get Access

Removal and Installation

of OFV

Modification (See Note)

Test

Close-up

TOTAL MANHOURS

ELAPSED TIME (HOURS)

1 . 50

4.00

-

1 .00

1 .00

7 . 50

7 . 50

NOTE : Refer to Nord-Micro Service Bulletin 20790-21-002 .

For the temporary modification of the OFV, P/N 20790-01AA .

Get Access

Removal and Installation

of OFV

Modification (See Note)

Test

Close-up

TOTAL MANHOURS

ELAPSED TIME (HOURS)

1 . 50

4.00

-

1 .00

1 .00

7 . 50

7 . 50

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NOTE : Refer to Nord-Micro Service Bulletin 20790-21-002 .

H . WEIGHT AND BALANCE

None

I . ELECTRICAL LOAD DATA

Not changed

J . REFERENCES

Aircraft Maintenance Manual (AMM) : 12-34-24 21-31-00 21-31- 51

Nord-Micro Service Bulletin (SB) : 20790-21-002

K . PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC) : 21-31-04

Trouble Shooting Manual (TSM) : 21-31-00

L . INTERCHANGEABILITY/MIXABILITY

DESCRIPTION

OLD

PART No .

NEW

PART

No .

INT MIXABILITY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| VALVE | 20790-01AA | 20790-02AC | 02 | Not applicable |
| VALVE | 20790-02AB | 20790-02AC | 02 | Not applicable |
| VALVE | 20790-01AA | 20790-01AC | 02 | Not applicable |
| VALVE | 20790-01AC | 20790-02AC | 02 | Not applicable |

NOTE : The Valve is modified by the Nord-Micro Service Bulletin 20790-21-002 .

NOTE : For the definitions of interchangeability codes in the column

INT . refer to ATA 200 Chapter 1A-2 .

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SERVICE BULLETIN

2. MATERIAL INFORMATION

A . MATERIAL — PRICE AND AVAILABILITY

(1) Material

Modification of removed equipment should be negotiated directly

with:

NORD-MICRO AG & CO . OHG

REPAIR STATION

VICTOR-SLOTOSCH-STRASSE 20

D 60388 FRANKFURT

GERMANY

TEL: (+49) 6109 303 435

FAX: (+49) 6109 303 641

as per instructions given in the Nord-Micro Service Bulletin 20790-21-002 .

(2) Price and Availability

Refer to the Nord-Micro Service Bulletin 20790-21-002 for the

equipment modification sales terms .

B . INDUSTRY SUPPORT INFORMATION

None

C . LIST OF COMPONENTS

None

D . LIST OF MATERIALS — OPERATOR SUPPLIED

(1) Consumable Materials

DESCRIPTION

REFERENCE TO CML

MAT . No .

QTY PER A/C INST DISP

Solvent

Cloth

11-026

19-003

As

As

required

required

(2) Components

None

E . PARTS TO BE RE— IDENTIFIED BY THE OPERATOR

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ITEM | NEW | PART | No . | KEYWORD | ITEM | OLD | PART | No . | INT |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 20790-02AC  20790-02AC | VALVE  VALVE | 20790-01AA  20790-02AB | 02  02 | See Note  See Note | 1  1 |

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|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ITEM | NEW | PART | No . | KEYWORD | ITEM | OLD | PART | No . | INT |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 20790-01AC  20790-02AC | VALVE  VALVE | 20790-01AA  20790-01AC | 02  02 | See Note  See Note | 1  1 |

NOTE (1) The Valve is modified by the Nord-Micro Service Bulletin 20790-21-002 .

NOTE : For the definitions of interchangeability codes in the column

INT . refer to ATA 200 Chapter 1A-2 .

F . TOOLING — PRICE AND AVAILABILITY

None

G . SPECIAL TOOLS

None

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SERVICE BULLETIN

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) Open, safety and tag the circuit breaker(s) listed in the AMM

21- 31- 51 Page block 401.

(c) Do the preparation for the removal of the outflow valve 10HL,

refer to AMM 21- 31- 51 Page block 401.

(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) If necessary, clean the work area with the solvent (Mat No .

11-026) and a cloth (Mat No . 19-003) .

(c) Tag the parts which you must remove and retain, to make the

subsequent installation easier .

B . MODIFICATION

(1) For complete modification of the OFV (P/N 20790-01AA) .

(a) Remove:

1 Valve 20790-01AA

(b) Do the modification to the outflow valve 10HL, refer to

Nord-Micro Service Bulletin 20790-21-002 , Procedure No . 1.

(c) Reidentify the valve, refer to Para . 2E .

(d) Install:

1 Valve 20790-02AC

(2) For complete modification of the OFV (P/N 20790-02AB) .

(a) Remove:

1 Valve 20790-02AB

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(b) Do the modification to the outflow valve 10HL, refer to

Nord-Micro Service Bulletin 20790-21-002 , Procedure No . 2.

(c) Reidentify the valve, refer to Para . 2E .

(d) Install:

1 Valve 20790-02AC

(3) For the temporary modification of the OFV (P/N 20790-01AA) .

(a) Do the modification to the outflow valve 10HL, refer to

Nord-Micro Service Bulletin 20790-21-002 , Procedure No . 3.

NOTE : The temporary modification installs the new electronic

boxes on the OFV, to keep the downtime of the aircraft

to a minimum, but will not solve the FC81 problem .

(b) Reidentify the valve, refer to Para . 2E .

(4) To complete the modification of the OFV (P/N 20790-01AC) .

(a) Remove:

1 Valve 20790-01AC

(b) Do the modification to the outflow valve 10HL, refer to

Nord-Micro Service Bulletin 20790-21-002 , Procedure No . 4.

(c) Reidentify the valve, refer to Para . 2E .

(d) Install:

1 Valve 20790-02AC

C . TEST

(1) Remove the safety tags and close the circuit breaker(s) listed in

the AMM 21- 31- 51 Page block 401.

(2) Do the operational test of the pressure control and monitoring

system, refer to AMM 21- 31-00 Page block 501.

(3) Do the operational test of the manual pressure control and

monitoring system, refer to AMM 21- 31-00 Page block 501.

D . CLOSE UP

(1) Make sure that the work areas are clean and clear of tools and

other items of equipment .

(2) Do the close up after the installation of the outflow valve 10HL,

refer to AMM 21- 31- 51 Page block 401.

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E . DOCUMENTATION

Write in the applicable aircraft records that you have done all the work

given in this Service Bulletin .

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SERVICE BULLETIN

REPORTING SHEET

TITLE : AIR CONDITIONING - PRESSURE CONTROL - INTRODUCE MODIFIED OUTFLOW VALVE

P/N 20790-02AC

MODIFICATION No . : 32112K7752 32113K7753

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 .

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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

X Effectivity

X Reason

X Manpower

X References

X Publication

Comments :

Material

X Kit content

X List of Materials

Operator Supplied

X Re-identification

X Tooling

Instructions

X Preparation

X Mod/Inspection

X Test

X Close-Up

X Illustrations

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 .

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