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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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SERVICE BULLETIN SUMMARY

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 to these operator(s) :

01Z 53Z AAA AAR ACA ADR AEF AES AFR AIB AIH AJM ALK AMC AMM AMU ANA AUA AWE AWQ
AZA B2A BAW BES BMA C3J C9G CBF CES CIB CJG CMM CNW CSC CSN CTN CYP DCS DGA DLH
EDW EEZ EIN EWG F2I FFT FIN G2X G4I GBL GFA GWY HDA HVN IAC IBE IWD JBU JKK JMC
KAC KZW LAJ LAN LBT LTE LTU LXR MAU MEA MON MSR MXA NWA O2X OHY OYC PAL PIC QAF
QTR RJA RYN S2A SAB SAS SEU SHJ SHK SSV SWR SYR TAI TAM TAP TAR TAS TNA TWJ UAL
USA VIR VLE WGT

CONCURRENT REQUIREMENTS

None

REFERENCES/REPERCUSSIONS

TFU : 21.31.51.015
OEB : None
AOT : None
SIL : None
LIFE LIMIT : 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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SERVICE BULLETIN 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	7.50
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ELAPSED TIME (HOURS)	7.50
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NOTE : Refer to Nord-Micro Service Bulletin 20790-21-002.

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

TOTAL MANHOURS	7.50
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ELAPSED TIME (HOURS)	7.50
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NOTE : Refer to Nord-Micro Service Bulletin 20790-21-002.

MATERIAL INFORMATION

AIRCRAFT DATA

None.

APPENDICES

None

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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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SERVICE BULLETIN

OPERATOR	MSN
01Z	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 1673 1718 1719 1726 1742 1748 1756 1765 1772 1783 1805 1811
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 1665 1676 1703 1708 1727 1730 1769 1779 1787 1795
AIH	0163 0164 0168 0169 0179 0193 0362 0363 0424 0444 0449 0808 0823 1238 1250
AJM	0422 0528 0624 0626 0628 0630 0666 0775 1213 1390 1503 1747 1751
ALK	0406
AMC	0112 0293
AMM	0677 0781 0852 1006 1017 1306 1320 1571 1605 1637 1720 1777
AMU	0550 0557 0573 0582 0620 0631 0805 0908 1758 1790

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SERVICE BULLETIN

OPERATOR	MSN
ANA	0138 0139 0148 0151 0167 0170 0196 0212 0219 0245 0300 0328 0365 0383 0413 0482 0501 0507 0531 0534 0549 0554 0658 0669 0685 0802 0811 0963 1008 1042 1204 1227
AUA	0552 0570 0581 0768 0776 0797 0920 0935 1137 1150 1189 1387 1458 1478
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 0951 0959 0999 1138 1168 1217 1220 1226 1722 1740 1745 1770
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 1357 1361 1377 1386 1532 1541 1542 1551 1601 1603 1639 1778 1786
CIB	0774 0793 0809 0884 0894 0905 0957 0971 1381 1402 1416 1437
CJG	0707 0724 0876 0921 1296 1654 1679
CMM	0132 0397 0409 1686 1706 1750 1753
CNW	0665 0754 0838 0854 0897 0909 0939 0967 0984 0986 1041 1316 1345
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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SERVICE BULLETIN

OPERATOR	MSN
CYP	0028 0035 0037 0038 0180 0256 0295 0316 0414 0430 1729 1768
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 1515 1560 1579 1583 1684 1743 1759 1761 1781 1803
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 0325 0345 0375 0419 0421 0438 0445 0459 0466 0497 0537
GWY	1564 1615 1725
HDA	0633 0756 0784 0812 0816 0877 0930 0993 1024 1253 1695 1721
HVN	0590 0591 0594 0597 0601 0605 0607 0611 0617 0619 0648 0650
IAC	0045 0046 0047 0048 0049 0050 0051 0056 0057 0058 0074 0075 0080 0089 0090 0095 0096 0097 0247 0257 0327 0336 0396 0398 0416 0423 0431 0432 0451 0469 0486 0490 0492 0499
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 0166 0178 0194 0198 0351 0366 0680 0687 0715 0725
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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SERVICE BULLETIN

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 0713 0727 0734 0782 0827 0870 0891 0987 1018 1144
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 1518 1580 1593 1595 1613 1628 1663 1672 1771 1801 1804 1818
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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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 1536 1539 1651 1666 1701 1704 1724 1794 1813
	1822
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	20790-01AA
Valve	20790-02AB
Valve	20790-01AC

B. CONCURRENT REQUIREMENTS

None

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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



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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(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	1.50
Removal and Installation of OFV	4.00
Modification (See Note)	-
Test	1.00
Close-up	1.00
TOTAL MANHOURS	7.50
ELAPSED TIME (HOURS)	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	1.50
Removal and Installation of OFV	4.00
Modification (See Note)	-
Test	1.00
Close-up	1.00
TOTAL MANHOURS	7.50
ELAPSED TIME (HOURS)	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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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	11-026	As required	
Cloth	19-003	As 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	VALVE		20790-01AA	02 See Note 1
	20790-02AC	VALVE		20790-02AB	02 See Note 1

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ITEM	NEW PART No.	KEYWORD	ITEM	OLD PART No.	INT
	20790-01AC	VALVE		20790-01AA	02 See Note 1
	20790-02AC	VALVE		20790-01AC	02 See Note 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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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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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 |
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| - 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.

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