@ Ac18/Ac16/Ac20/Ac21

SERVICE BULLETIN

SUMMARY

AIRBUS

CUSTOMER SERVICES DIRECTORATE

1 Rond Point Maurice Bellonte

31707 BLAGNAC CEDEX FRANCE

Tel : (33) 5 61 93 33 33

Telex : AIRBU 530526F

Fax : (33) 5 61 93 42 51

This summary is for information only

and is not approved for modification of the aircraft

ATA SYSTEM : 21

TITLE : AIR CONDITIONING - INSTALL IMPROVED CLAMP ON BELLOWS AT PACK OUTLET AND

BETWEEN PACK OUTLET CHECK VALVE AND MIXER UNIT .

MODIFICATION No . : 35038K9698

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Operators have reported some cases of rupture of the quick-disconnect clamps

used for the bellows which connect the condensers of the air conditioning packs

with the outlet ducts and the pack outlet check-valves with the mixer unit . As a

result of these clamp ruptures the bellows come completely off, the pack air

blows into the pack bay, the pack outlet valve closes and the aircraft is

supplied only with pack air from the remaining pack . In one case a

depressurization of the cabin was reported as the result of a failed pack

outlet-valve flap-position or broken flap due to heavy oscillation of flap .

This Service Bulletin details the procedure to replace the affected clamps by

improved clamps . The improvement consists in spot-welded, corrosion- resistant

steel clamps instead of riveted aluminium clamps .

The accomplishment of this Service Bulletin will improve the reliability of the

air conditioning system and will avoid an unintentional cabin depressurization .

|  |  |  |  |
| --- | --- | --- | --- |
| EVALUATION TABLE | | | |
| COMPLIANCE | Desirable | CANCELS INSPECTION SB | No |
| POTENTIAL AD | No | A/C OPERATION AFFECTED | Yes |
| RELIABILITY AFFECTED | No | PAX COMFORT AFFECTED | No |
| COST SAVING | No | ETOPS AFFECTED | No |
| STRUCTURAL LIFE EXTN | No | VENDOR SB INVOLVED | No |
| KIT PRICE (USD) D01 | 340 |  |  |

EFFECTIVITY

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

6 DATE : Aug 24/05

REVISION No . : 00 —

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| --- | --- | --- | --- |
| @ Ac18/Ac16/Ac20/Ac21  SERVICE BULLETIN  SUMMARY  03X 10X 53Z 57Y 72Y 78Y 83Y 88Y 98Y A1L AAF AAR ABQ ABY ACA ACI ADR  AIB AJM ALK AMC AMU ANA ANZ ARF AUA AWE AZA BAW BES BGH BIE BKP BMA  CCA CCM CEB CES CIB CJG CNW CRX CSC CSN CTN CYP D2F DAT DBR DCS DGA  EDW EEZ EGN EIN EZY F2I FCA FDM FFT FHY FIN G4I GBL GFA GWI GWY HDA  IAC IBE IDE IRM ISS IWD JAV JBU JCS JET JKK JST KAC KYV LAJ LAN LAO  LTU LVG LXR MAU MEA MHS MLD MNJ MON MPH MSR MXA MYT NKS NLY NVR NWA  PAL PIC PTI QAF QTR R1T RAM RBA RJA RML RNV RYN RZO S2A S8G SAA SAS  SSV SYR TAE TAI TAM TAP TAR TAS TCW TCX TGW THY TNA TWJ UAL UKM USA  VUN WGT WZZ  CONCURRENT REQUIREMENTS  None  REFERENCES/REPERCUSSIONS | AFL  BRS  DKN  HEJ  LBT  OGE  SEU  VKG | AFR  BWG  DLH  HVN  LTC  OHY  SHJ  VLE | AHY  CBF  DRK  I2L  LTE  P2C  SLK  VLU |

TFU

OEB

AOT

SIL

LIFE LIMIT

: None

: None

: None

: None

: None

LINE MAINTENANCE AFFECTED : No

OTHERS : None

NATURE OF THE WORK

Kit 211155D01R00

AIRCRAFT : YES

EQUIPMENT : NO

HARD : NO

SOFT : NO

OBRM : NO

MANPOWER

Kit 211155D01R00

TOTAL MANHOURS

8 .00

5.00

ELAPSED TIME (HOURS)

MATERIAL INFORMATION

AIRCRAFT DATA

Kit 211155D01R00

Clamps .

APPENDICES

None

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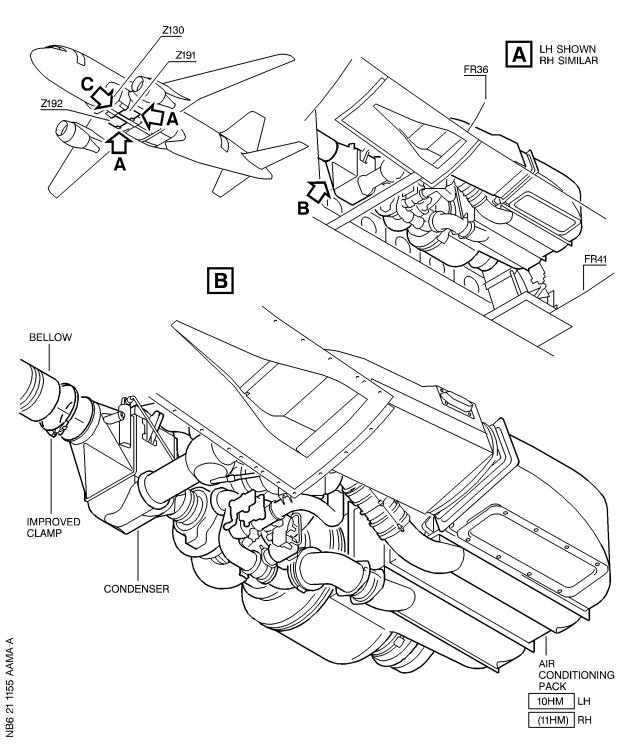
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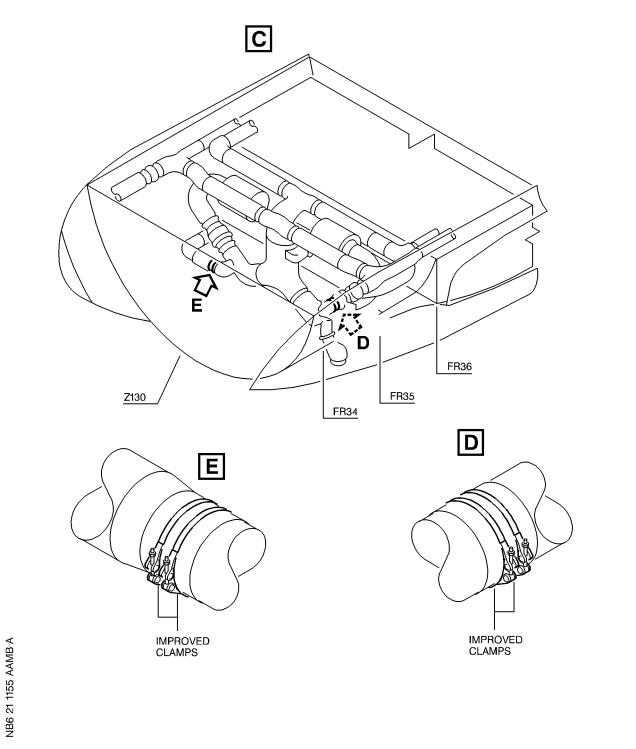
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AIRBUS

CUSTOMER SERVICES DIRECTORATE

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31707 BLAGNAC CEDEX FRANCE

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ATA SYSTEM : 21

TITLE : AIR CONDITIONING - INSTALL IMPROVED CLAMP ON BELLOWS AT PACK OUTLET AND

BETWEEN PACK OUTLET CHECK VALVE AND MIXER UNIT .

MODIFICATION No . : 35038K9698

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1. PLANNING INFORMATION

A . EFFECTIVITY

(1) Models

318-111 319-111 319-112 319-113 319-114 319-115 319-131 319-132

319-133 320-111 320-211 320-212 320-214 320-231 320-232 320-233

321-111 321-112 321-131 321-211 321-212 321-231 321-232

(2) Aircraft

(a) Effectivity by MSN

This Service Bulletin is applicable to aircraft MSN :

0002-0008 0010-0014 0016-0078 0080-0091 0093-0104 0106-0373

0375-0432 0434-0480 0482-0535 0537-0601 0603-0707 0709-1185

1187-1277 1279-1598 1600-1812 1814-1821 1823-1829 1831-1918

1920-1929 1931-1984 1986-2024 2026-2110 2112-2508 2510 2512

2514 2516 2518-2519 2521 2523 2525 2527-2528 2530 2532 2534

2544

(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 .

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OPERATOR  03X | MSN  2421 |  |  |  |  |  |  |  |  |  |
| 10X | 2413 | 2443 |  |  |  |  |  |  |  |  |
| 53Z | 1468 |  |  |  |  |  |  |  |  |  |
| 57Y | 1494 |  |  |  |  |  |  |  |  |  |
| 72Y | 2165 |  |  |  |  |  |  |  |  |  |
| 78Y | 2496 | 2502 |  |  |  |  |  |  |  |  |
| 83Y | 1086 |  |  |  |  |  |  |  |  |  |
| 88Y | 2207 | 2227 | 2388 | 2407 |  |  |  |  |  |  |
| 98Y | 2316 | 2356 | 2395 | 2401 | 2423 | 2453 | 2457 |  |  |  |
| A1L | 0322 |  |  |  |  |  |  |  |  |  |
| AAF | 0808 | 0823 |  |  |  |  |  |  |  |  |
| AAR | 0771 | 0855 | 1060 | 1293 | 1356 | 1511 | 1636 | 1670 | 1734 | 2041 |
|  | 2045 | 2110 | 2226 | 2247 | 2290 | 2397 | 2459 |  |  |  |
| ABQ | 0394 | 0443 | 0760 |  |  |  |  |  |  |  |
| ABY | 0112 | 2158 | 2166 | 2278 | 2349 |  |  |  |  |  |
| 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 | 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 | 0674 | 0675 | 0682 | 0684 | 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  1963 | 1772  2018 | 1783  2145 | 1805 | 1811 | 1853 | 1864 | 1874 | 1886 | 1940 |
| ACI | 2152 |  |  |  |  |  |  |  |  |  |
| ADR | 0043 | 0113 | 0114 |  |  |  |  |  |  |  |
| AFL | 2052 | 2069 | 2072 | 2091 | 2093 | 2106 | 2116 | 2133 | 2144 | 2151 |
|  | 2163 | 2179 | 2222 | 2233 | 2243 | 2330 | 2337 | 2342 |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| 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 | 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 | 0777 | 0796 | 0938 | 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 |
|  | 1859 | 1873 | 1879 | 1885 | 1894 | 1900 | 1924 | 1938 | 1949 | 2035 |
|  | 2059  2344 | 2071  2350 | 2081  2456 | 2100 | 2109 | 2140 | 2213 | 2228 | 2279 | 2317 |
| AHY | 2487 | 2516 |  |  |  |  |  |  |  |  |
| AIB | 2192 | 2507 |  |  |  |  |  |  |  |  |
| AJM | 0422 | 0528 | 0624 | 0626 | 0628 | 0630 | 0666 | 0775 | 1213 | 1390 |
|  | 1503 | 1747 | 1751 | 1905 | 1966 | 1988 | 2048 |  |  |  |
| ALK | 0164 | 0169 | 0304 | 0315 | 0406 |  |  |  |  |  |
| AMC | 0293  2332 | 0331  2382 | 1769 | 2113 | 2122 | 2142 | 2178 | 2186 | 2189 | 2291 |
| AMU | 0597  1926 | 0620  1962 | 0631 | 0805 | 0908 | 1758 | 1790 | 1850 | 1893 | 1912 |
| 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 | 1973 | 2054 | 2061 |  |  |  |  |  |
| ANZ | 2085 | 2090 | 2112 | 2130 | 2148 | 2153 | 2173 | 2257 | 2297 | 2403 |
| ARF | 0575 | 0580 | 1199 | 1218 | 2108 | 2128 |  |  |  |  |
| AUA | 0552 | 0570 | 0581 | 0768 | 0776 | 0797 | 0920 | 0935 | 1137 | 1150 |
|  | 1189 | 1387 | 1458 | 1478 | 2131 | 2174 | 2262 | 2416 | 2494 | 2528 |
| AWE | 0052 | 0053 | 0054 | 0055 | 0064 | 0065 | 0066 | 0067 | 0076 | 0077 |
|  | 0081 | 0082 | 0091 | 0098 | 0099 | 0238 | 0271 | 0317 | 0448 | 0455 |
|  | 0471 | 0527 | 0543 | 0565 | 0584 | 0661 | 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 |
|  | 1844  2430 | 1935  2458 | 2029  2482 | 2077 | 2193 | 2302 | 2312 | 2359 | 2405 | 2422 |
| 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 | 1448 |
|  | 1457 | 1473 | 1480 | 1489 | 1722 | 1740 | 1745 | 1770 | 1779 | 2033 |
|  | 2057 | 2074 | 2083 | 2086 | 2101 | 2127 |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| 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 | 1665 | 1689 | 1696 | 1708 | 1760 | 1782 |
|  | 1814 | 1829 | 1871 | 1883 | 1899 | 1907 | 1910 | 1958 | 2038 | 2040 |
|  | 2305 | 2320 | 2323 | 2324 | 2351 | 2363 |  |  |  |  |
| BES | 1256 | 1999 |  |  |  |  |  |  |  |  |
| BGH | 0029 | 0294 | 0349 |  |  |  |  |  |  |  |
| BIE | 0517 | 0535 | 0642 | 0827 | 0891 |  |  |  |  |  |
| BKP | 2254 | 2310 |  |  |  |  |  |  |  |  |
| BMA | 0806 | 0810 | 0835 | 0864 | 0934 | 0968 | 0974 | 1014 | 1045 | 1153 |
|  | 1174 | 1177 | 1183 | 1207 | 1383 | 1407 | 1418 | 1424 | 1697 | 1732 |
|  | 1987 | 2098 | 2188 | 2194 | 2389 | 2429 | 2466 |  |  |  |
| BRS | 2263 |  |  |  |  |  |  |  |  |  |
| BWG | 0519 | 0530 | 0916 |  |  |  |  |  |  |  |
| CBF | 1596  2232 | 1614  2521 | 1776  2530 | 1788 | 1974 | 1995 | 2067 | 2080 | 2200 | 2203 |
| CCA | 2237 | 2269 | 2285 | 2293 | 2298 | 2454 | 2499 | 2508 | 2525 | 2532 |
| CCM | 0533 | 0548 | 1068 | 1145 |  |  |  |  |  |  |
| CEB | 2419 | 2439 |  |  |  |  |  |  |  |  |
| CES | 0772 | 0799 | 0828 | 0883 | 0909 | 0914 | 0925 | 0967 | 1005 | 1028 |
|  | 1030 | 1041 | 1070 | 1072 | 1093 | 1108 | 1285 | 1303 | 1312 | 1330 |
|  | 1345 | 1357 | 1361 | 1377 | 1386 | 1532 | 1541 | 1542 | 1551 | 1601 |
|  | 1603 | 1639 | 1778 | 1786 | 1906 | 1911 | 1964 | 1981 | 2022 | 2034 |
|  | 2036 | 2049 | 2056 | 2068 | 2219 | 2221 | 2235 | 2239 | 2244 | 2309 |
|  | 2315 | 2437 | 2451 | 2478 | 2493 | 2498 |  |  |  |  |
| CIB | 0774  1416 | 0793  1437 | 0809 | 0884 | 0894 | 0905 | 0957 | 0971 | 1381 | 1402 |
| CJG | 0707  2015 | 0724  2172 | 0876  2202 | 0921  2205 | 1296 | 1654 | 1679 | 1753 | 2000 | 2007 |
| CNW | 0665 | 0754 | 0838 | 0854 | 0897 | 0939 | 0984 | 0986 | 1316 | 2155 |
|  | 2171 | 2182 | 2199 | 2212 | 2274 |  |  |  |  |  |
| CRX | 0520 | 0577 | 0578 | 0585 | 0596 | 0603 | 0612 | 0621 | 0635 | 0643 |
|  | 0664 | 0673 | 0681 | 0701 | 0703 | 0713 | 0727 | 0734 | 0782 | 0987 |
|  | 1018 | 1144 | 1951 | 2024 | 2134 |  |  |  |  |  |
| CSC | 0540 | 0550 | 0551 | 0556 | 0573 | 0582 | 0591 | 0878 | 0902 | 0912 |
|  | 0915 | 0919 | 1007 | 1013 | 2313 | 2348 | 2510 | 2534 |  |  |
| CSN | 0696 | 0698 | 0704 | 0705 | 0709 | 0710 | 0712 | 0718 | 0720 | 0722 |
|  | 0849 | 0859 | 0881 | 0895 | 0900 | 0950 | 0966 | 1035 | 1039 | 1057 |
|  | 1971 | 1986 | 2004 | 2008 | 2273 | 2275 | 2334 | 2343 | 2345 | 2354 |
|  | 2361 | 2371 | 2408 | 2426 | 2435 | 2484 | 2505 | 2506 | 2519 |  |
| CTN | 0258 | 0641 | 0767 | 0833 | 1009 | 1029 | 1237 | 1252 |  |  |
| CYP | 0028 | 0035 | 0037 | 0038 | 0180 | 0256 | 0295 | 0316 | 1729 | 1768 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| D2F | 0354 | 0937 |  |  |  |  |  |  |  |  |
| DAT | 1160 | 1336 | 1388 |  |  |  |  |  |  |  |
| DBR | 1081 | 1370 |  |  |  |  |  |  |  |  |
| DCS | 1053 |  |  |  |  |  |  |  |  |  |
| DGA | 1485 | 1556 |  |  |  |  |  |  |  |  |
| DKN | 0932 | 0943 | 0977 | 2366 | 2376 |  |  |  |  |  |
| DLH | 0069 | 0070 | 0078 | 0083 | 0093 | 0094 | 0104 | 0110 | 0111 | 0116 |
|  | 0117 | 0135 | 0137 | 0147 | 0161 | 0162 | 0172 | 0200 | 0201 | 0202 |
|  | 0209 | 0216 | 0217 | 0218 | 0267 | 0268 | 0269 | 0346 | 0401 | 0412 |
|  | 0458 | 0468 | 0473 | 0474 | 0484 | 0493 | 0502 | 0505 | 0518 | 0560 |
|  | 0563 | 0564 | 0567 | 0595 | 0609 | 0610 | 0616 | 0623 | 0627 | 0652 |
|  | 0692 | 0694 | 0699 | 0700 | 0717 | 0723 | 0729 | 0738 | 0744 | 0853 |
|  | 0875  1365 | 0887  1367 | 0901 | 1080 | 1161 | 1188 | 1214 | 1260 | 1273 | 1337 |
| DRK | 2306 | 2346 |  |  |  |  |  |  |  |  |
| EDW | 0942 | 0947 | 1026 |  |  |  |  |  |  |  |
| EEZ | 1852 | 1920 | 1937 | 1983 | 2001 | 2440 |  |  |  |  |
| EGN | 0030 |  |  |  |  |  |  |  |  |  |
| EIN | 0815 | 0841 | 0926 | 0991 | 1023 | 1094 | 1242 | 1394 | 1443 | 1467 |
|  | 2191  2409 | 2206  2411 | 2217  2432 | 2250  2486 | 2256 | 2272 | 2294 | 2364 | 2374 | 2399 |
| EZY | 2037 | 2043 | 2050 | 2053 | 2062 | 2119 | 2120 | 2129 | 2170 | 2176 |
|  | 2181 | 2184 | 2196 | 2214 | 2224 | 2230 | 2245 | 2249 | 2251 | 2265 |
|  | 2271 | 2283 | 2289 | 2300 | 2319 | 2353 | 2360 | 2370 | 2378 | 2380 |
|  | 2385 | 2387 | 2398 | 2402 | 2412 | 2420 | 2427 | 2436 | 2442 | 2446 |
|  | 2450  2514 | 2460  2527 | 2463 | 2471 | 2477 | 2481 | 2492 | 2495 | 2503 | 2512 |
| F2I | 0283 | 0739 | 0743 | 0970 | 0995 | 1054 | 1124 |  |  |  |
| FCA | 0677 | 0781 | 0852 | 1306 | 1320 | 1571 | 1637 | 1720 | 1777 | 2180 |
| FDM | 2445 | 2500 |  |  |  |  |  |  |  |  |
| FFT | 1488 | 1515 | 1560 | 1579 | 1583 | 1660 | 1684 | 1743 | 1759 | 1761 |
|  | 1781 | 1803 | 1841 | 1851 | 1863 | 1876 | 1890 | 1939 | 1943 | 1980 |
|  | 1991 | 1997 | 2010 | 2012 | 2017 | 2019 | 2030 | 2051 | 2103 | 2198 |
|  | 2209 | 2218 | 2236 | 2240 | 2241 | 2253 | 2258 | 2260 | 2276 | 2287 |
|  | 2318 | 2392 | 2400 | 2406 | 2448 | 2465 | 2483 | 2497 | 2518 |  |
| FHY | 0132 | 0288 |  |  |  |  |  |  |  |  |
| FIN | 0941 | 0961 | 1073 | 1107 | 1184 | 1185 | 1241 | 1309 | 1352 | 1364 |
|  | 1405 | 1470 | 1544 | 1588 | 1678 | 1712 | 1735 | 1791 | 1808 | 1913 |
|  | 1916 | 1978 | 1989 | 2065 | 2124 | 2146 | 2154 | 2208 | 2266 |  |
| G4I | 1002 | 1157 | 1795 |  |  |  |  |  |  |  |
| GBL | 1215  1993 | 1428  2137 | 1433  2157 | 1687  2462 | 1715 | 1723 | 1754 | 1869 | 1918 | 1969 |
| GFA | 0325  0537 | 0375 | 0409 | 0419 | 0421 | 0438 | 0445 | 0459 | 0466 | 0497 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| GWI | 0071  0794 | 0072  0860 | 0086  1016 | 0382  1172 | 0636 | 0646 | 0651 | 0654 | 0679 | 0689 |
| GWY | 0427  2325 | 1152  2327 | 1198 | 1564 | 1615 | 1725 | 1860 | 1867 | 2175 | 2187 |
| HDA | 0633 | 0756 | 0784 | 0812 | 0816 | 0877 | 0930 | 0993 | 1024 | 1253 |
|  | 1695 | 1721 | 1984 | 2021 | 2229 | 2238 | 2428 |  |  |  |
| HEJ | 0425 | 1992 | 2016 |  |  |  |  |  |  |  |
| HVN | 0557 | 0590 | 0594 | 0601 | 0605 | 0607 | 0611 | 0617 | 0619 | 0648 |
|  | 0650 | 0956 | 2255 | 2261 | 2267 | 2303 | 2480 |  |  |  |
| I2L | 0525 | 0542 | 0579 | 0640 | 0645 | 0676 |  |  |  |  |
| IAC | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | 0051 | 0056 | 0057 | 0058 |
|  | 0074 | 0075 | 0080 | 0089 | 0090 | 0095 | 0096 | 0097 | 0168 | 0179 |
|  | 0225 | 0247 | 0257 | 0308 | 0314 | 0326 | 0327 | 0336 | 0344 | 0362 |
|  | 0376 | 0386 | 0396 | 0398 | 0416 | 0423 | 0431 | 0432 | 0451 | 0469 |
|  | 0478 | 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 | 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 | 1836 | 2104 | 2115 |
|  | 2143 | 2220 | 2225 | 2242 | 2248 | 2264 | 2270 | 2311 | 2347 | 2357 |
|  | 2365 | 2381 | 2391 | 2472 | 2488 |  |  |  |  |  |
| IDE | 2277  2467 | 2296  2468 | 2335 | 2362 | 2383 | 2396 | 2404 | 2414 | 2431 | 2452 |
| IRM | 0857 |  |  |  |  |  |  |  |  |  |
| ISS | 1048 | 1102 | 1283 | 1305 |  |  |  |  |  |  |
| IWD | 0879 | 0888 | 1130 | 1578 | 1597 | 1657 | 1767 | 2011 |  |  |
| JAV | 0234 |  |  |  |  |  |  |  |  |  |
| 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 | 1827 | 1835 |
|  | 1849 | 1861 | 1868 | 1891 | 1896 | 1898 | 1904 | 1915 | 1917 | 1927 |
|  | 1948 | 2006 | 2020 | 2031 | 2042 | 2063 | 2075 | 2099 | 2125 | 2132 |
|  | 2136 | 2141 | 2147 | 2149 | 2150 | 2159 | 2160 | 2177 | 2201 | 2215 |
|  | 2231 | 2246 | 2259 | 2280 | 2284 | 2286 | 2307 | 2314 | 2336 | 2352 |
|  | 2368 | 2384 | 2386 | 2415 | 2447 | 2449 | 2461 | 2489 | 2491 |  |
| JCS | 0211 |  |  |  |  |  |  |  |  |  |
| JET | 0163 | 0204 | 0363 | 0371 | 0393 | 0414 |  |  |  |  |
| JKK | 1276 | 1333 | 1349 | 1366 | 1497 | 1631 | 1682 | 1749 | 1843 | 1862 |
|  | 1914 | 1933 | 1946 | 1979 | 1998 | 2027 | 2168 | 2210 | 2223 | 2479 |
| JST | 2169 | 2185 | 2197 | 2292 | 2299 | 2322 | 2329 | 2338 | 2455 | 2475 |
| KAC | 0181 | 0182 | 0195 | 2046 |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| KYV | 1012 | 1451 | 2117 |  |  |  |  |  |  |  |
| LAJ | 0480 | 1194 | 1690 | 1711 | 1922 | 2190 | 2441 |  |  |  |
| LAN | 1304 | 1332 | 1351 | 1355 | 1491 | 1512 | 1526 | 1548 | 1568 | 1626 |
|  | 1854 | 1858 | 1877 | 1903 | 2089 | 2096 | 2295 | 2304 | 2321 |  |
| LAO | 0024 |  |  |  |  |  |  |  |  |  |
| LBT | 0025 | 0140 | 0157 | 0222 | 0299 | 0301 | 0348 | 1121 | 1175 | 1744 |
| LTC | 0142 |  |  |  |  |  |  |  |  |  |
| LTE | 1006 | 1219 | 1233 | 1717 | 1775 | 2123 |  |  |  |  |
| LTU | 1385 | 1441 | 1493 | 1504 | 1553 | 1607 | 1629 | 1762 | 1797 | 1806 |
|  | 1838 | 1931 | 1994 | 2005 | 2009 |  |  |  |  |  |
| LVG | 0792 | 1950 | 1970 |  |  |  |  |  |  |  |
| LXR | 0022 | 0023 | 0191 | 0221 | 0870 | 1439 | 1450 | 1589 |  |  |
| MAU | 1592 | 1936 |  |  |  |  |  |  |  |  |
| MEA | 1878 | 1953 | 1956 | 1967 | 1977 | 2055 |  |  |  |  |
| MHS | 0026 |  |  |  |  |  |  |  |  |  |
| MLD | 0622 | 0662 |  |  |  |  |  |  |  |  |
| MNJ | 0615 |  |  |  |  |  |  |  |  |  |
| MON | 0379  2234 | 0389 | 0391 | 0392 | 0983 | 1015 | 1707 | 1763 | 1941 | 2105 |
| MPH | 1944 | 1945 | 2167 |  |  |  |  |  |  |  |
| MSR | 0165 | 0166 | 0178 | 0194 | 0198 | 0351 | 0366 | 0680 | 0687 | 0715 |
|  | 0725 | 2070 | 2073 | 2079 | 2088 | 2094 |  |  |  |  |
| MXA | 0252 | 0259 | 0260 | 0261 | 0275 | 0276 | 0280 | 0291 | 0292 | 0296 |
|  | 0320 | 0321 | 0332 | 0347 | 0353 | 0361 | 0368 | 0369 | 0373 | 0405 |
|  | 0415 | 0428 | 0430 | 0447 | 0467 | 0588 | 1429 | 1598 | 1612 | 1618 |
|  | 1625 | 1634 | 1706 | 1750 | 1866 | 1872 | 1882 | 1925 | 2066 | 2078 |
|  | 2126 | 2328 | 2333 | 2358 | 2367 | 2377 | 2394 | 2523 | 2544 |  |
| MYT | 0193 | 0230 | 0424 | 0429 | 0444 | 0449 | 1238 | 1250 | 1887 | 1942 |
|  | 1954 | 1960 | 1961 | 1965 | 1972 | 2003 | 2060 |  |  |  |
| NKS | 1195 | 1408 | 1794 | 2424 | 2433 | 2470 | 2473 | 2476 | 2485 | 2490 |
| NLY | 0659 | 0667 | 1459 | 1487 |  |  |  |  |  |  |
| NVR | 2211 | 2216 | 2410 |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| 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 | 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 | 1824 | 1828 | 1833 | 1839 |
|  | 1870 | 1875 | 1897 | 1923 | 1959 | 1976 | 1982 | 1990 | 2002 | 2013 |
|  | 2026  2464 | 2028  2474 | 2039 | 2047 | 2082 | 2087 | 2092 | 2095 | 2369 | 2373 |
| OGE | 0764 | 0978 |  |  |  |  |  |  |  |  |
| OHY | 0313 | 0345 | 0364 | 0385 | 0663 | 0668 | 0787 | 0954 | 1004 | 1421 |
| P2C | 0553 | 0559 | 1438 |  |  |  |  |  |  |  |
| PAL | 0706 | 0745 | 0753 |  |  |  |  |  |  |  |
| PIC | 0604 | 0614 | 0789 |  |  |  |  |  |  |  |
| PTI | 1727 | 1880 | 1947 | 1955 |  |  |  |  |  |  |
| QAF | 0927 | 1335 |  |  |  |  |  |  |  |  |
| QTR | 0928 | 1566 | 1648 | 1656 | 1773 | 1895 | 1928 | 1957 | 2097 | 2107 |
|  | 2121 | 2138 | 2161 | 2288 | 2341 |  |  |  |  |  |
| R1T | 1908 |  |  |  |  |  |  |  |  |  |
| RAM | 2064 | 2076 |  |  |  |  |  |  |  |  |
| RBA | 2023 | 2032 | 2135 | 2139 |  |  |  |  |  |  |
| RJA | 0087 | 0088 | 0289 | 0407 | 0569 | 0761 |  |  |  |  |
| RML | 0397 |  |  |  |  |  |  |  |  |  |
| RNV | 0229 | 0547 | 0632 | 0726 |  |  |  |  |  |  |
| RYN | 0460 | 0461 |  |  |  |  |  |  |  |  |
| RZO | 0795 | 2390 | 2425 |  |  |  |  |  |  |  |
| S2A | 2417 |  |  |  |  |  |  |  |  |  |
| S8G | 1202 |  |  |  |  |  |  |  |  |  |
| SAA | 2268  2501 | 2281 | 2308 | 2326 | 2355 | 2375 | 2379 | 2418 | 2438 | 2469 |
| SAS | 1587 | 1619 | 1642 | 1675 | 1798 | 1807 | 1817 | 1848 |  |  |
| SEU | 0653 | 0657 | 0737 | 0749 | 0973 | 1692 |  |  |  |  |
| SHJ | 0910 |  |  |  |  |  |  |  |  |  |
| SLK | 0872  2252 | 0899 | 0969 | 1074 | 1098 | 1228 | 1422 | 1561 | 1698 | 2058 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OPERATOR | MSN |  |  |  |  |  |  |  |  |  |
| SSV | 0338  1884 | 0437  1901 | 0476 | 0496 | 0671 | 1411 | 1605 | 1686 | 1780 | 1846 |
| SYR | 0886 | 0918 | 1032 | 1076 | 1085 | 1117 |  |  |  |  |
| TAE | 2014 | 2044 |  |  |  |  |  |  |  |  |
| TAI | 0558 | 0561 | 0733 | 0741 | 0747 | 0874 | 1066 | 1113 | 1140 | 1159 |
|  | 1300 | 1334 | 1339 | 1353 | 1374 | 1400 | 1482 | 1500 | 1509 | 1523 |
|  | 1575  2301 | 1624  2339 | 1676  2434 | 1730  2444 | 1934 | 1952 | 2084 | 2102 | 2118 | 2282 |
| TAM | 0243 | 0249 | 0250 | 0251 | 0334 | 0335 | 0440 | 0453 | 0758 | 0976 |
|  | 1010 | 1092 | 1096 | 1103 | 1139 | 1143 | 1158 | 1246 | 1251 | 1368 |
|  | 1376 | 1486 | 1518 | 1580 | 1593 | 1595 | 1608 | 1613 | 1628 | 1663 |
|  | 1672 | 1703 | 1771 | 1801 | 1804 | 1818 | 1825 | 1826 | 1831 | 1832 |
|  | 1837 | 1855 | 1857 | 1888 | 2504 |  |  |  |  |  |
| TAP | 0185 | 0395 | 0750 | 0755 | 0763 | 0790 | 0821 | 0837 | 0906 | 0917 |
|  | 0933 | 0945 | 0960 | 0979 | 0982 | 1034 | 1100 | 1106 | 1120 | 1127 |
|  | 1165 | 1181 | 1206 | 1231 | 1307 | 1399 | 1667 | 1713 | 1799 | 1816 |
| TAR | 0119 | 0123 | 0124 | 0205 | 0370 | 0390 | 0402 | 0511 | 0869 | 0880 |
|  | 0958 | 0975 | 1187 | 1479 | 1700 |  |  |  |  |  |
| TAS | 0629 | 1372 |  |  |  |  |  |  |  |  |
| TCW | 1787 | 1929 | 1975 |  |  |  |  |  |  |  |
| TCX | 0357 | 0411 | 0714 | 0716 | 0730 | 0735 | 1968 |  |  |  |
| TGW | 2195 | 2204 | 2331 | 2340 |  |  |  |  |  |  |
| THY | 0522 | 0541 | 0545 | 0562 | 0566 | 0574 | 0992 | 1413 |  |  |
| TNA | 0441 | 0538 | 0555 | 0606 | 0731 | 0746 | 0791 | 0822 |  |  |
| TWJ | 0913 |  |  |  |  |  |  |  |  |  |
| 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 | 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  1847 | 1728  1865 | 1731 | 1737 | 1741 | 1755 | 1821 | 1840 | 1842 | 1845 |
| UKM | 0027 |  |  |  |  |  |  |  |  |  |

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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 |  |  |
| VKG | 1881 | 1889 | 1921 | 1932 | 2114 | 2162 | 2183 |  |  |  |
| VLE | 0085 | 0189 | 0190 | 0343 | 0420 | 0436 | 0446 | 0814 | 0990 | 1125 |
|  | 1132  1996 | 1162 | 1179 | 1244 | 1259 | 1308 | 1322 | 1757 | 1856 | 1909 |
| VLU | 2156 | 2164 |  |  |  |  |  |  |  |  |
| VUN | 1017 |  |  |  |  |  |  |  |  |  |
| WGT | 1212 |  |  |  |  |  |  |  |  |  |
| WZZ | 0839 | 0892 | 1635 | 1834 | 1892 | 1902 | 2372 | 2393 |  |  |

(c) Effectivity by MSN and Kit/Configuration

The kits and configurations applicable to these MSNs are given

at the end of this list:

0002-0008 0010-0014 0016-0078 0080-0091 0093-0104 0106-0373

0375-0432 0434-0480 0482-0535 0537-0601 0603-0707 0709-1185

1187-1277 1279-1598 1600-1812 1814-1821 1823-1829 1831-1918

1920-1929 1931-1984 1986-2024 2026-2110 2112-2508 2510 2512

2514 2516 2518-2519 2521 2523 2525 2527-2528 2530 2532 2534

2544

KIT No . QTY PER A/C CONFIGURATION

211155D01R00 1 None

(3) Spares

Clamp

B . CONCURRENT REQUIREMENTS

None

NSA5532-612

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SERVICE BULLETIN

C . REASON

(1) History

Operators have reported some cases of rupture of the quick

disconnect clamps used for the bellows which connect the condensers

of the air conditioning packs with the outlet ducts and the pack

outlet check-valves with the mixer unit . As a result of these clamp

ruptures the bellows come completely off, the pack air blows into

the pack bay, the pack outlet valve closes and the aircraft is

supplied only with pack air from the remaining pack . In one case a

depressurization of the cabin was reported as the result of a

failed pack outlet-valve flap-position or broken flap due to heavy

oscillation of flap .

(2) Objective/Action

This Service Bulletin details the procedure to replace the affected

clamps by improved clamps . The improvement consists in spot-welded,

corrosion- resistant steel clamps instead of riveted aluminium

clamps .

(3) Advantages

The accomplishment of this Service Bulletin will improve the

reliability of the air conditioning system and will avoid an

unintentional cabin depressurization .

(4) Operational/Maintenance Consequences

This Service Bulletin has an operational impact . Refer to paragraph

K, PUBLICATIONS AFFECTED .

D . DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

(1) Kit 211155D01R00

(a) Replace the quick-disconnect clamp of the bellow at the

air-conditioning condenser outlet duct of the LH pack 10HM at

FR36 .

(b) Replace the quick-disconnect clamp of the bellow at the

air-conditioning condenser outlet duct of the RH pack 11HM at

FR36 .

(c) Replace the quick-disconnect clamps for the bellow which

connect the outlet check-valve of the air conditioning pack

10HM with the mixer unit between FR34LH and FR35LH .

(d) Replace the quick-disconnect clamps for the bellow which

connect the outlet check-valve of the air conditioning pack

11HM with the mixer unit between FR34RH and FR35RH, STGR37 .

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SERVICE BULLETIN

E . COMPLIANCE

(1) Classification

Desirable

(2) Accomplishment Timescale

In accordance with operators' maintenance schedule .

F . APPROVAL

Approved under EASA Design Organisation Approval No . EASA .21J .031 .

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 .

Kit 211155D01R00

Get Access

Modification

Test

Close-up

TOTAL MANHOURS

ELAPSED TIME (HOURS)

H . WEIGHT AND BALANCE

3 .00

1 .00

1 . 50

2 . 50

8 .00

5.00

Not changed

I . ELECTRICAL LOAD DATA

Not changed

J . REFERENCES

Aircraft Maintenance Manual (AMM) : 06-41- 53 12-33-21 12-34-24

20-21-11 21- 52-41 24-41-00

25- 54-12 52-30-00 53-35-13

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SERVICE BULLETIN

Consumable Material List (CML)

Standards Manual (SM)

K . PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC) : 21- 52-03

Flight Crew Operating Manual (FCOM)

This Service Bulletin has an operational impact . Please inform AIRBUS,

at least four weeks in advance, in case you need your operational

documentation to be amended by an intermediate revision prior to SB

embodiment . For this purpose please request the intermediate revision by

fax, telex or mail to :

SDC3, AIRBUS - Customer Services Directorate

Fax No . 33 (0) 5 61 93 28 06

Sita No . TLSBP7X

E-mail sb . reporting@airbus .com

These amendments will be confirmed by the next normal revision of

operational documentation, once your Service Bulletin accomplishment

report has been sent, as usual, to our Customer Services Directorate

(SDC3) .

L . INTERCHANGEABILITY/MIXABILITY

DESCRIPTION OLD PART No . NEW PART No . INT MIXABILITY

Clamp NSA5532-612 NSA5532C612 01 None

NOTE : For definitions of interchangeability codes in column INT . refer

to ATA Common Support Data Dictionary (CSDD), Chapter 2.

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SERVICE BULLETIN

2. MATERIAL INFORMATION

A . MATERIAL — PRICE AND AVAILABILITY

(1) Material

Customers with aircraft shown in the effectivity of this Service

Bulletin should send a purchase order to AIRBUS . Quote the number

of this Service Bulletin . The address is :

AIRBUS

SPARES SUPPORT AND SERVICES

PO BOX 630262

22312 HAMBURG

GERMANY

(2) Price and Availability

Kit 211155D01R00

Cost : 340 US Dollars

Availability : 30 calendar days from receipt of order

The Kit availability given above is the standard lead time from the

date of your purchase order . If you require the Kit(s) before this

time, please include a retrofit planning schedule with your order

so that we can try to comply with your requirements .

The sales terms (costs and availability) are estimated in relation

to the economic conditions at the issue date of the Service

Bulletin .

B . INDUSTRY SUPPORT INFORMATION

Airbus will not provide industry support for accomplishment of this Service Bulletin .

C . LIST OF COMPONENTS

Kit 211155D01R00

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ITEM | NEW PART No . | QTY UM | KEYWORD | ITEM | OLD | PART | No . | INT | INST | DISP |

1 NSA5532C612 6 EA CLAMP (1) NSA5532-612 01 None

NOTE : Refer to the AIRBUS Standards Manual (SM) if you find part

numbers of hardware components in the related kit(s) which you

cannot identify in the LIST OF COMPONENTS of this Service

Bulletin . The SM will give you the correct part number to part

number relationship .

NOTE : For definitions of interchangeability codes in column INT . refer

to ATA Common Support Data Dictionary (CSDD), Chapter 2.

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D . LIST OF MATERIALS — OPERATOR SUPPLIED

(1) Consumable Materials

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| DESCRIPTION | REFERENCE TO CML  MAT . No . | QTY | PER | A/C | INST | DISP |

Cleaning agent 11-026 As required

(2) Components

None

E . PARTS TO BE RE— IDENTIFIED BY THE OPERATOR

None

F . TOOLING — PRICE AND AVAILABILITY

To accomplish this Service Bulletin it is necessary to use the tools

listed in AMM 52- 30-00 Page block 201.

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 .

CAUTION : ALWAYS OBEY THE PRECAUTIONS THAT FOLLOW TO KEEP ELECTRICAL WIRING IN A SATISFACTORY CONDITION (ELECTRICALLY AND MECHANICALLY SERVICEABLE) .

WHEN YOU DO MAINTENANCE WORK, REPAIRS OR MODIFICATIONS, ALWAYS

KEEP ELECTRICAL WIRING, COMPONENTS AND THE WORK AREA AS CLEAN

AS POSSIBLE . TO DO THIS :

— PUT PROTECTION, SUCH AS PLASTIC SHEETING, CLOTHS, ETC . AS

NECESSARY ON ELECTRICAL WIRING AND COMPONENTS .

— REGULARLY REMOVE ALL SHAVINGS, UNWANTED MATERIAL AND OTHER

CONTAMINATION .

THESE PRECAUTIONS WILL DECREASE THE RISK OF CONTAMINATION AND

DAMAGE TO THE ELECTRICAL WIRING INSTALLATION .

IF THERE IS CONTAMINATION REFER TO ESPM 20- 55-00 .

(1) Preparation

(a) Make sure that the aircraft is electrically grounded, refer to

AMM 12- 34-24 Page block 201.

(b) Energize the aircraft electrical circuits, refer to AMM

24-41-00 Page block 201.

(c) Put an access platform in position at the opening of the FWD

cargo-compartment door .

(d) Put an access platform in position at access door 811.

(e) Open the avionics-bay access door 811.

(f) In the Cockpit on the panel 30VU make sure that :

— the APU BLEED pushbutton switch is in the off position (the

ON legend is off) .

— the ENG 1 BLEED and the ENG 2 BLEED pushbutton switches are

in the off position (the OFF legends are on) .

NOTE : Put a warning notice in position to tell persons not to

operate these pushbutton switches .

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(g) Open, safety and tag this (these) circuit breaker(s) :

PANEL

DESIGNATION

FIN

LOCATION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2000VU | SEMI AUTO CLS- FWD  2MY | |  | B03 |
| 2000VU | SEMI AUTO CLS- FWD  3MY | |  | B01 |
| 122VU | AIR COND/FLOW/MIXER/FLAP 3HB | |  | V22 |
| 122VU | AIR COND/ZONE TEMP CTL/28VDC/SYS2 4HK | |  | V20 |
| 122VU | AIR COND/ZONE TEMP CTL/28VDC/SYS1 3HK | |  | V19 |
| 122VU | AIR COND/ZONE TEMP  CTL/115VAC/SYS2 | 2HK |  | V18 |
| 122VU | AIR COND/ZONE TEMP  CTL/115VAC/SYS1 | 1HK |  | V17 |
| 122VU | AIR COND/RECIRC FAN/R/CTL | 11HG |  | W20 |
| 122VU | AIR COND/RECIRC FAN/R/SPLY | 3HG |  | W18 |
| 122VU | AIR COND/RECIRC FAN/L/CTL | 2HG |  | X20 |
| 122VU | AIR COND/RECIRC FAN/L/SPLY | 1HG |  | X18 |
|  | and for the air conditioning | pack 10HM | : |  |
| PANEL | DESIGNATION | FIN |  | LOCATION |
| 49VU | AIR COND/FLOW/CTL &/IND1 | 1HB |  | D07 |
| 122VU | AIR COND/PACK TEMP/CTL  SYS1/1/115VAC | 1HH |  | X22 |
| 122VU | AIR COND/PACK TEMP/CTL  SYS1/1/28VDC | 3HH |  | X21 |
| 122VU | AIR COND/PACK TEMP CTL  SYS2/1/28VDC | 4HH |  | Y19 |
| 122VU | AIR COND/PACK TEMP CTL  SYS2/1/115VAC | 2HH |  | Y18 |
|  | and for the air conditioning | pack 11HM | : |  |
| PANEL | DESIGNATION | FIN |  | LOCATION |
| 122VU | AIR COND/FLOW/CTL AND IND/2 | 2HB |  | V21 |
| 122VU | AIR COND/PACK TEMP/CTL  SYS1/2/115VAC | 21HH |  | W22 |
| 122VU | AIR COND/PACK TEMP/CTL  SYS1/2/28VCD | 23HH |  | W21 |
| 122VU | AIR COND/PACK TEMP CTL  SYS2/2/28VDC | 24HH |  | Y21 |
| 122VU | AIR COND/PACK TEMP CTL  SYS2/2/115VAC | 22HH |  | Y20 |

NOTE : The location of the circuit breaker(s) can be different

from the location given in the table .

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(h) Remove the partition panels 131PW and 132PW in the FWD

cargo-compartment at FR34 for access, refer to AMM 25- 54-12

Page block 401.

(i) Remove the belly-fairing access panels 191BB and 192FB to get

access to the quick-disconnect clamps on bellows at pack

outlets, refer to AMM 21- 52-41 Page block 401and AMM 53- 35-13

Page block 401.

(j) On the HP ground connector put a warning notice in position to

tell persons not to supply the ground air .

(2) Standard Practices

(a) Refer to the AIRBUS Standards Manual (SM) if you find part

numbers of hardware components in the related kit(s) which you

cannot 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 material specifications (Mat . No .) given in this Service

Bulletin, refer to the Consumable Material List (CML) .

(c) For torque values of standard threaded fasteners, refer to AMM

20-21-11 Page block 201.

(d) For location of access doors, refer to AMM 06-41- 53 Page block

001.

B . MODIFICATION

(1) Kit 211155D01R00

(a) Replace the quick-disconnect clamp of the bellow at the

air-conditioning condenser outlet duct of the LH pack 10HM at

FR36 .

Refer to Figure [1](#_bookmark1)

1 Remove as shown in Sheet [1](#_bookmark2) , Detail B :

1 clamp NSA5532-612 Item (1) Discard

2 Clean the work area with cleaning agent (Mat No . 11-026) . 3 Install as shown in Sheet [1](#_bookmark2) , Detail B :

1 clamp NSA5532C612 Item 1

4 Torque tighten the clamp to between 0 .28m .daN (24 .78lbf .in)

and 0 . 38m .daN (33 .63lbf .in) .

(b) Replace the quick-disconnect clamp of the bellow at the

air-conditioning condenser outlet duct of the RH pack 11HM at

FR36 .

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Refer to Figure [1](#_bookmark1)

1 Remove as shown in Sheet [1](#_bookmark2) , Detail B :

1 clamp NSA5532-612 Item (1) Discard

2 Clean the work area with cleaning agent (Mat No . 11-026) .

3 Install as shown in Sheet [1](#_bookmark2) , Detail B :

1 clamp NSA5532C612 Item 1

4 Torque tighten the clamp to between 0 .28m .daN (24 .78lbf .in)

and 0 . 38m .daN (33 .63lbf .in) .

(c) Replace the quick-disconnect clamps for the bellow which

connect the outlet check-valve of the air conditioning pack

10HM with the mixer unit between FR34LH and FR35LH .

Refer to Figure [2](#_bookmark3)

1 Remove as shown in Sheet [1](#_bookmark4) , Detail B :

2 clamp NSA5532-612 Item (1) Discard

2 Clean the work area with cleaning agent (Mat No . 11-026) . 3 Install as shown in Sheet [1](#_bookmark4) , Detail B :

2 clamp NSA5532C612 Item 1

4 Torque tighten the clamps to between 0 .28m .daN

(24.78lbf.in) and 0 . 38m .daN (33 .63lbf .in) .

(d) Replace the quick-disconnect clamps for the bellow which

connect the outlet check-valve of the air conditioning pack

11HM with the mixer unit between FR34RH and FR35RH, STGR37 .

Refer to Figure [2](#_bookmark3)

1 Remove as shown in Sheet [1](#_bookmark4) , Detail C :

2 clamp NSA5532-612 Item (1) Discard

2 Clean the work area with cleaning agent (Mat No . 11-026) .

3 Install as shown in Sheet [1](#_bookmark4) , Detail C :

2 clamp NSA5532C612 Item 1

4 Torque tighten the clamps to between 0 .28m .daN

(24.78lbf.in) and 0 . 38m .daN (33 .63lbf .in) .

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C . TEST

(1)

PANEL

Job set-up

(a) Remove the safety clip(s) and tag(s) and close this (these)

circuit breaker(s) :

DESIGNATION

LOCATION

FIN

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2000VU | SEMI AUTO CLS- FWD  2MY | |  | B03 |
| 2000VU | SEMI AUTO CLS- FWD  3MY | |  | B01 |
| 122VU | AIR COND/FLOW/MIXER/FLAP 3HB | |  | V22 |
| 122VU | AIR COND/ZONE TEMP CTL/28VDC/SYS2 4HK | |  | V20 |
| 122VU | AIR COND/ZONE TEMP CTL/28VDC/SYS1 3HK | |  | V19 |
| 122VU | AIR COND/ZONE TEMP  CTL/115VAC/SYS2 | 2HK |  | V18 |
| 122VU | AIR COND/ZONE TEMP  CTL/115VAC/SYS1 | 1HK |  | V17 |
| 122VU | AIR COND/RECIRC FAN/R/CTL | 11HG |  | W20 |
| 122VU | AIR COND/RECIRC FAN/R/SPLY | 3HG |  | W18 |
| 122VU | AIR COND/RECIRC FAN/L/CTL | 2HG |  | X20 |
| 122VU | AIR COND/RECIRC FAN/L/SPLY | 1HG |  | X18 |
|  | and for the air conditioning | pack 10HM | : |  |
| PANEL | DESIGNATION | FIN |  | LOCATION |
| 49VU | AIR COND/FLOW/CTL &/IND1 | 1HB |  | D07 |
| 122VU | AIR COND/PACK TEMP/CTL  SYS1/1/115VAC | 1HH |  | X22 |
| 122VU | AIR COND/PACK TEMP/CTL  SYS1/1/28VDC | 3HH |  | X21 |
| 122VU | AIR COND/PACK TEMP CTL  SYS2/1/28VDC | 4HH |  | Y19 |
| 122VU | AIR COND/PACK TEMP CTL  SYS2/1/115VAC | 2HH |  | Y18 |
|  | and for the air conditioning | pack 11HM | : |  |
| PANEL | DESIGNATION | FIN |  | LOCATION |
| 122VU | AIR COND/FLOW/CTL AND IND/2 | 2HB |  | V21 |
| 122VU | AIR COND/PACK TEMP/CTL  SYS1/2/115VAC | 21HH |  | W22 |
| 122VU | AIR COND/PACK TEMP/CTL  SYS1/2/28VCD | 23HH |  | W21 |
| 122VU | AIR COND/PACK TEMP CTL  SYS2/2/28VDC | 24HH |  | Y21 |
| 122VU | AIR COND/PACK TEMP CTL  SYS2/2/115VAC | 22HH |  | Y20 |

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NOTE : The location of the circuit breaker(s) can be different

from the location given in the table .

(2) Procedure

WARNING : MAKE SURE THAT THE FWD AVIONICS ACCESS DOOR 811 IS OPEN, WITH A WARNING PLACARD ATTACHED TO IT .

THE WARNING NOTICE MUST TELL PERSONS NOT TO CLOSE THE DOOR . THIS PREVENTS ACCIDENTAL PRESSURIZATION OF THE AIRCRAFT .

(a) Do the :

— pre-conditioning through the HP ground connection, refer to

AMM 12- 33-21 Page block 201,

or

— pre-conditioning with the APU, refer to AMM 12- 33-21 Page

block 201.

(b) Do a leak check of the mixer-unit duct connections .

NOTE : Air leaks are not permitted .

(c) Do a leak check of the air-conditioning-packs outlet duct

connections .

NOTE : Minimum leakage is permitted . After the pack operates

some minutes, the leakage of air will reduce because

the seals have their correct operating temperature .

(3) Close-up

(a) Do the shut down procedure for the pre-conditioning, when the

pre-conditioning is no longer necessary, refer to AMM 12- 33-21

Page block 201.

D . CLOSE UP

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

other items of equipment .

(2) Install the partition panels 131PW and 132PW in the FWD

cargo-compartment at FR34, refer to AMM 25- 54-12 Page block 401.

(3) Install the belly-fairing access panels 191BB and 192FB, refer to

AMM 53- 35-13 Page block 401.

(4) Close the FWD cargo-compartment door, refer to AMM 52- 30-00 Page

block 201.

NOTE : Make sure that the appropriate cargo-compartment-door

safety-equipment is removed .

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(5) De-energize the aircraft electrical circuits, refer to AMM 24-41-00

Page block 201.

(6) Remove the warning notice(s) .

(7) Close the avionics-bay access door 811.

(8) Remove the access platform(s) .

E . DOCUMENTATION

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

given in this Service Bulletin .

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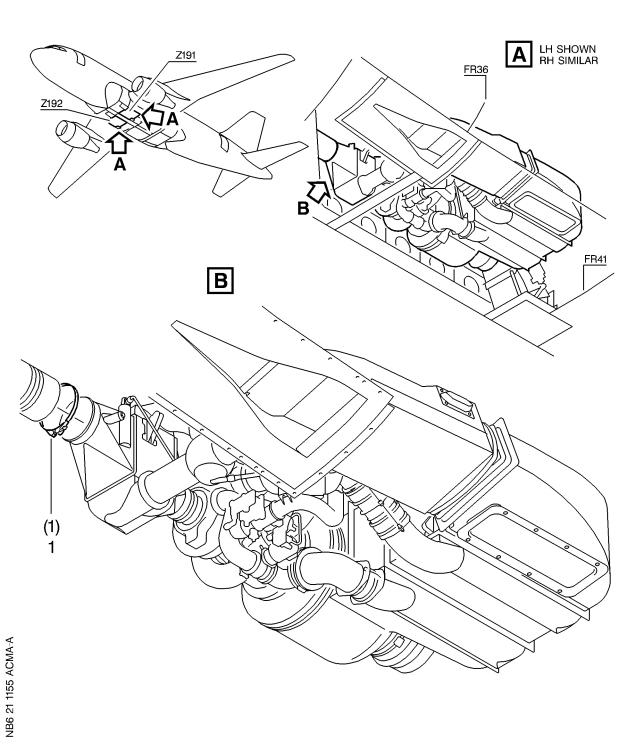


Figure 1 Sheet 1

Replace the Clamps at Air-Conditioning Pack Outlets

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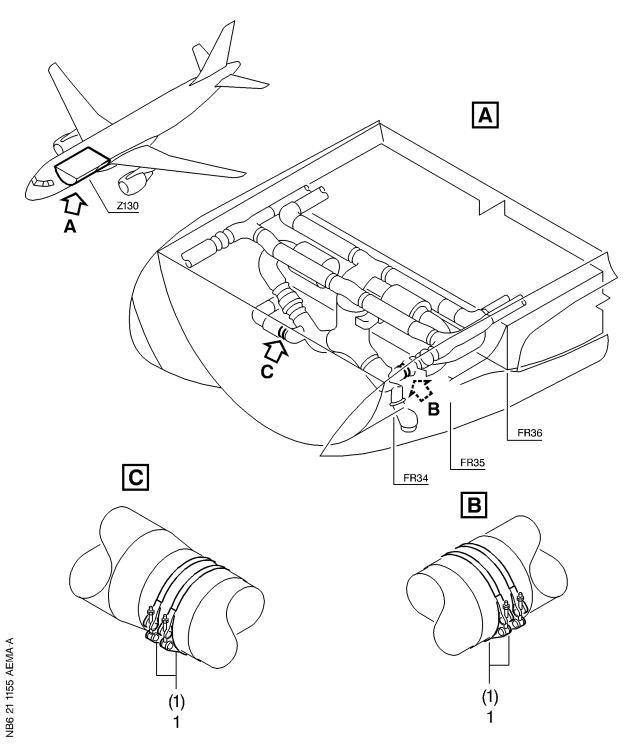


Figure 2 Sheet 1

Replace the Clamps at Mixer Unit

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REPORTING SHEET

TITLE : AIR CONDITIONING - INSTALL IMPROVED CLAMP ON BELLOWS AT PACK OUTLET AND

BETWEEN PACK OUTLET CHECK VALVE AND MIXER UNIT .

MODIFICATION No . : 35038K9698

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:

Either: Modification Operational Impact (MOI), if available . . YES/NO

Or : Intermediate revision . . . . . . . . . . . . . . . . . YES/NO

Important Information: This SB will only be incorporated in your maintenance and

operational documentation if this sheet is returned to Airbus 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 shall automatically include them in the manual revisions . Refer to SIL

00-037 for detailed information .

Please return this completed sheet to:

AIRBUS

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Attn: SDC32 Technical Data and Documentation Services

FAX: (+33) 5 61 93 28 06

e -mail: sb . reporting@airbus .com

or via your Resident Customer Support Office .

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

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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 :

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