



A318/A319/A320/A321

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) :

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03X 10X 53Z 57Y 72Y 78Y 83Y 88Y 98Y A1L AAF AAR ABQ ABY ACA ACI ADR AFL AFR AHY
AIB AJM ALK AMC AMU ANA ANZ ARF AUA AWE AZA BAW BES BGH BIE BKP BMA BRS BWG CBF
CCA CCM CEB CES CIB CJG CNW CRX CSC CSN CTN CYP D2F DAT DBR DCS DGA DKN DLH DRK
EDW EEZ EGN EIN EZY F2I FCA FDM FFT FHY FIN G4I GBL GFA GWI GWY HDA HEJ HVN I2L
IAC IBE IDE IRM ISS IWD JAV JBU JCS JET JKK JST KAC KYV LAJ LAN LAO LBT LTC LTE
LTU LVG LXR MAU MEA MHS MLD MNJ MON MPH MSR MXA MYT NKS NLY NVR NWA OGE OHY P2C
PAL PIC PTI QAF QTR R1T RAM RBA RJA RML RNV RYN RZO S2A S8G SAA SAS SEU SHJ SLK
SSV SYR TAE TAI TAM TAP TAR TAS TCW TCX TGW THY TNA TWJ UAL UKM USA VKG VLE VLU
VUN WGT WZZ

CONCURRENT REQUIREMENTS

None

REFERENCES/REPERCUSSIONS

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

NATURE OF THE WORK

Kit 211155D01R00
AIRCRAFT : YES
EQUIPMENT : NO
HARD : NO
SOFT : NO
OBRM : NO

MANPOWER

Kit 211155D01R00	
TOTAL MANHOURS	8.00
ELAPSED TIME (HOURS)	5.00

MATERIAL INFORMATION

AIRCRAFT DATA
Kit 211155D01R00
Clamps.

APPENDICES

None

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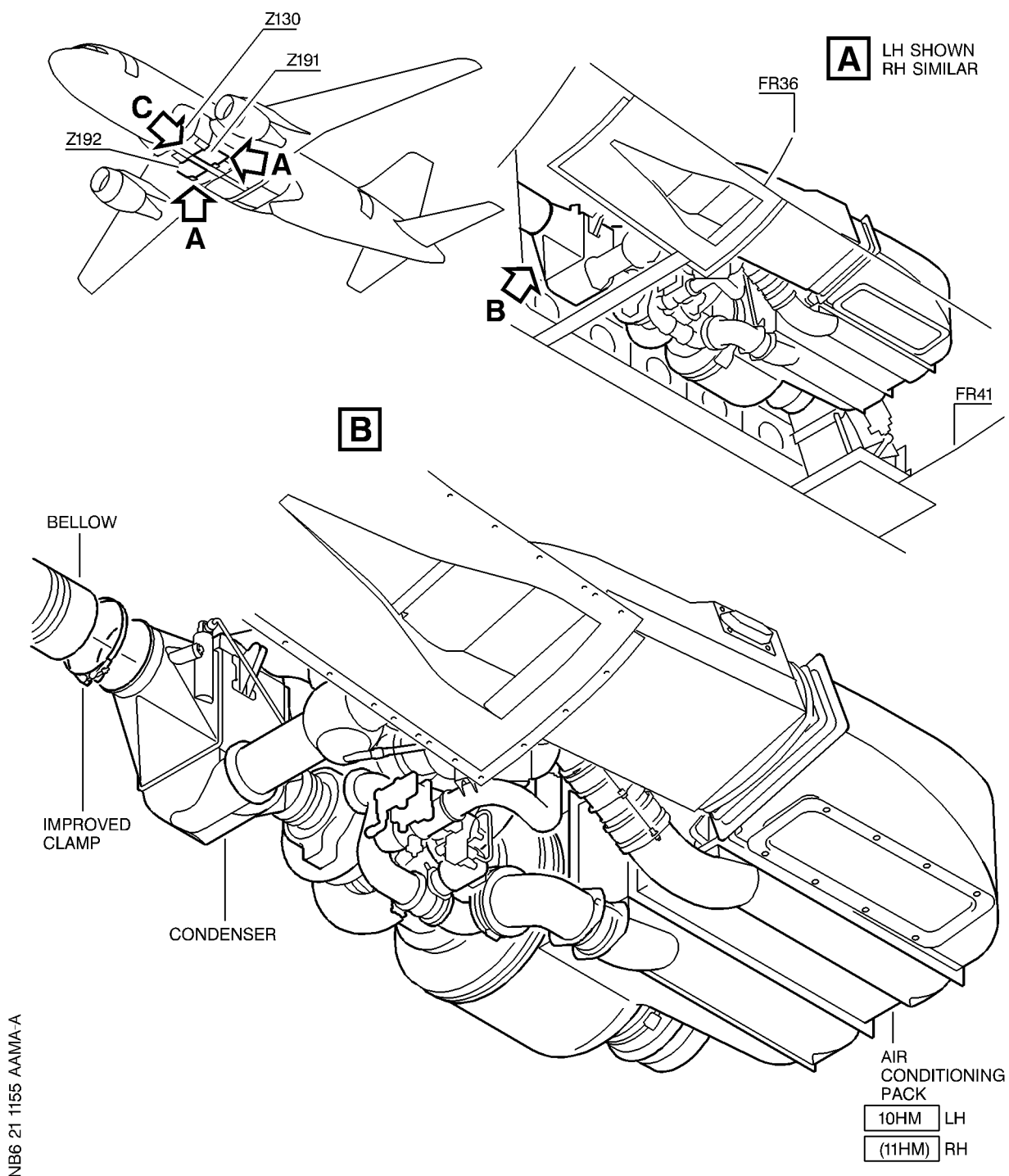
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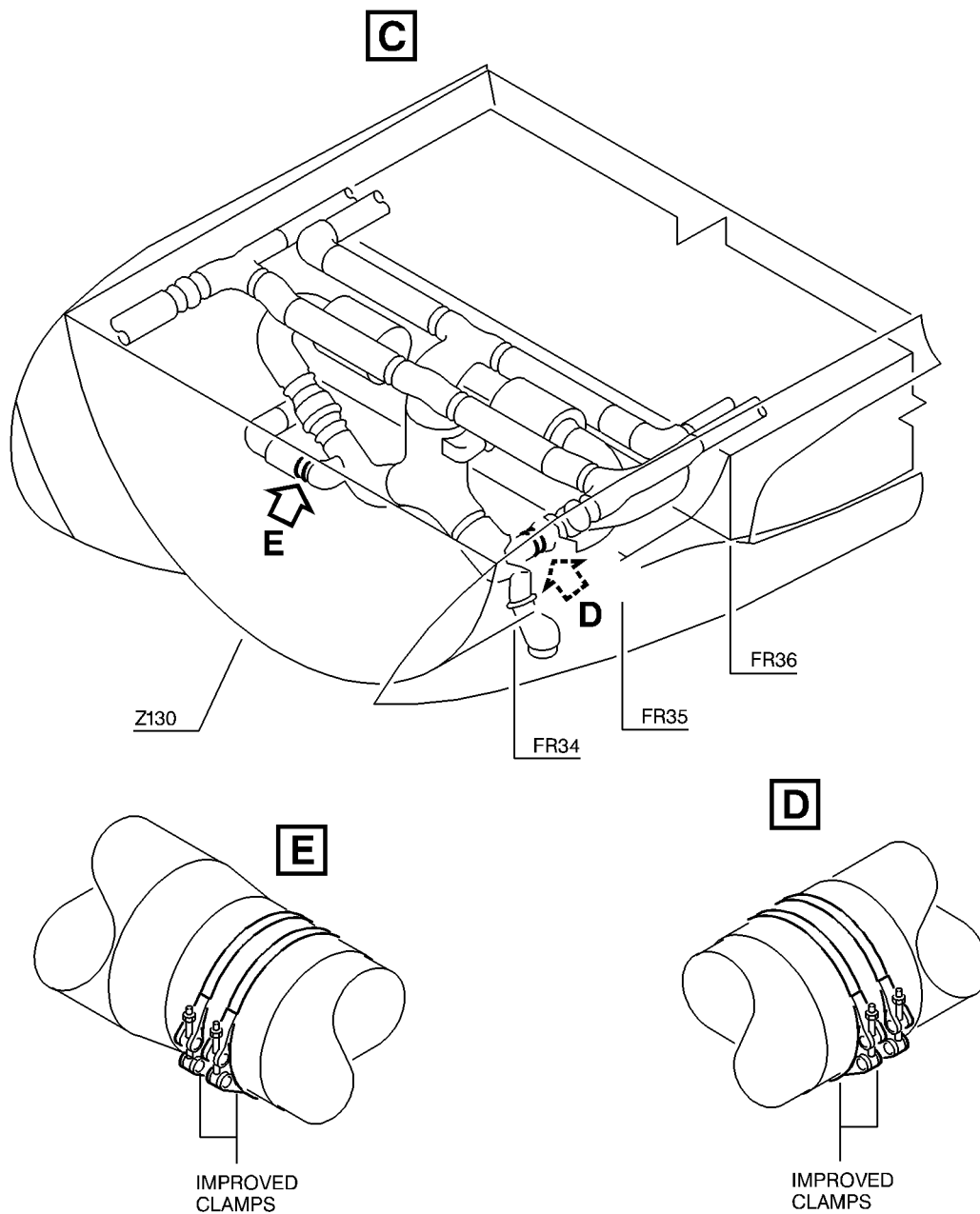
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NB6 21 1155 AAMB-A

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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.

OPERATOR	MSN
03X	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 1772 1783 1805 1811 1853 1864 1874 1886 1940 1963 2018 2145
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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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 2071 2081 2100 2109 2140 2213 2228 2279 2317 2344 2350 2456
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 0331 1769 2113 2122 2142 2178 2186 2189 2291 2332 2382
AMU	0597 0620 0631 0805 0908 1758 1790 1850 1893 1912 1926 1962
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 1935 2029 2077 2193 2302 2312 2359 2405 2422 2430 2458 2482
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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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 1614 1776 1788 1974 1995 2067 2080 2200 2203 2232 2521 2530
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 0793 0809 0884 0894 0905 0957 0971 1381 1402 1416 1437
CJG	0707 0724 0876 0921 1296 1654 1679 1753 2000 2007 2015 2172 2202 2205
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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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 0887 0901 1080 1161 1188 1214 1260 1273 1337 1365 1367
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 2206 2217 2250 2256 2272 2294 2364 2374 2399 2409 2411 2432 2486
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 2460 2463 2471 2477 2481 2492 2495 2503 2512 2514 2527
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 1428 1433 1687 1715 1723 1754 1869 1918 1969 1993 2137 2157 2462
GFA	0325 0375 0409 0419 0421 0438 0445 0459 0466 0497 0537

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GWI	0071 0072 0086 0382 0636 0646 0651 0654 0679 0689 0794 0860 1016 1172
GWY	0427 1152 1198 1564 1615 1725 1860 1867 2175 2187 2325 2327
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 2296 2335 2362 2383 2396 2404 2414 2431 2452 2467 2468
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 0389 0391 0392 0983 1015 1707 1763 1941 2105 2234
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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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 2028 2039 2047 2082 2087 2092 2095 2369 2373 2464 2474
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 2281 2308 2326 2355 2375 2379 2418 2438 2469 2501
SAS	1587 1619 1642 1675 1798 1807 1817 1848
SEU	0653 0657 0737 0749 0973 1692
SHJ	0910
SLK	0872 0899 0969 1074 1098 1228 1422 1561 1698 2058 2252

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OPERATOR	MSN
SSV	0338 0437 0476 0496 0671 1411 1605 1686 1780 1846 1884 1901
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 1624 1676 1730 1934 1952 2084 2102 2118 2282 2301 2339 2434 2444
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 1728 1731 1737 1741 1755 1821 1840 1842 1845 1847 1865
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 1162 1179 1244 1259 1308 1322 1757 1856 1909 1996
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	NSA5532-612
-------	-------------

B. CONCURRENT REQUIREMENTS

None

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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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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	3.00
Modification	1.00
Test	1.50
Close-up	2.50
TOTAL MANHOURS	8.00
ELAPSED TIME (HOURS)	5.00

H. WEIGHT AND BALANCE

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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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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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



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 SYS1/2/28VDC	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 401 and 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

1 Remove as shown in Sheet 1 , 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 , 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

1 Remove as shown in Sheet 1 , 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 , 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

1 Remove as shown in Sheet 1 , 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 , 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

1 Remove as shown in Sheet 1 , 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 , 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).

**C. TEST****(1) Job set-up**

- (a) Remove the safety clip(s) and tag(s) and close 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

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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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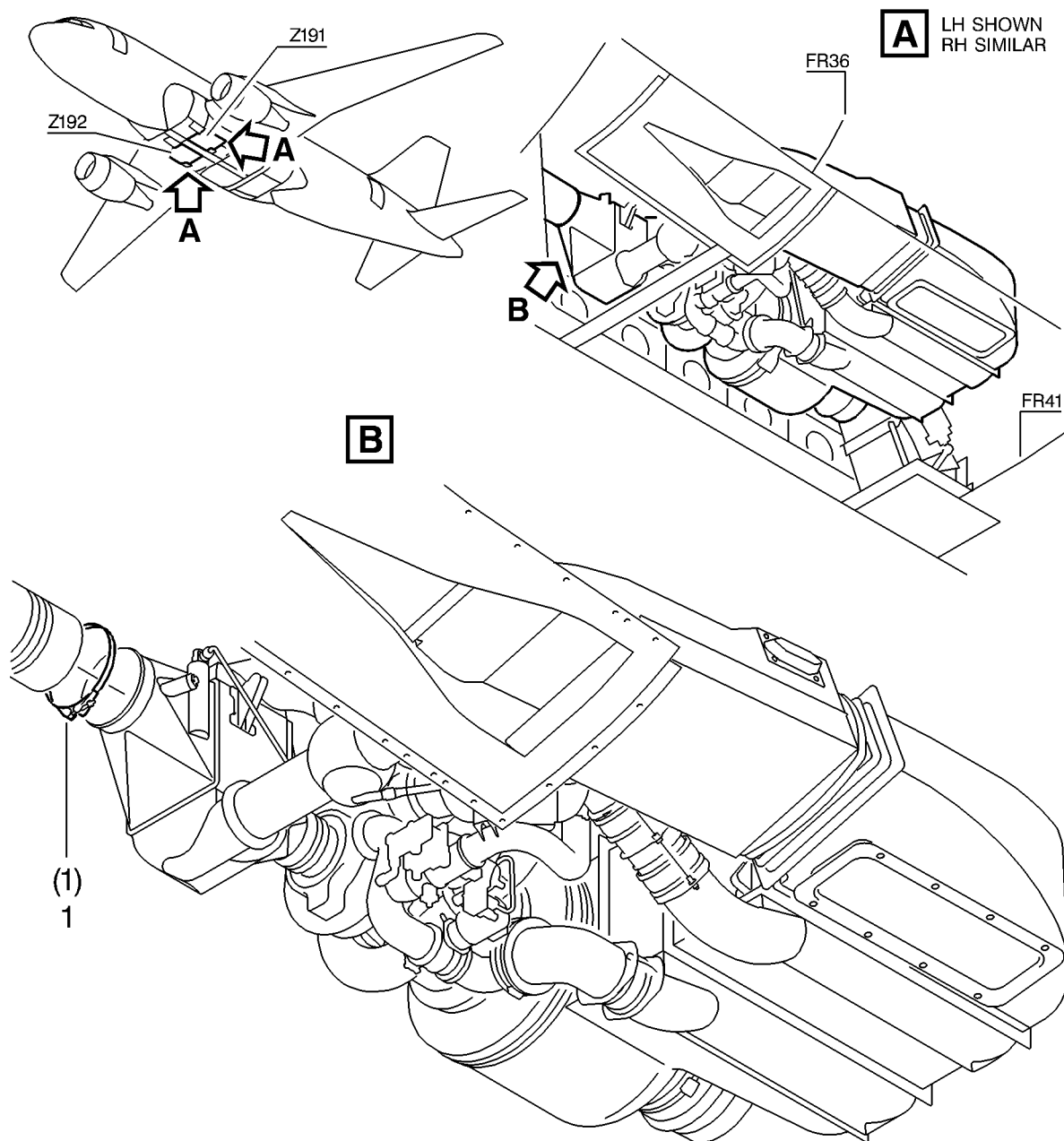
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NB6 21 1155 ACMA-A

Figure 1 Sheet 1
Replace the Clamps at Air-Conditioning Pack Outlets

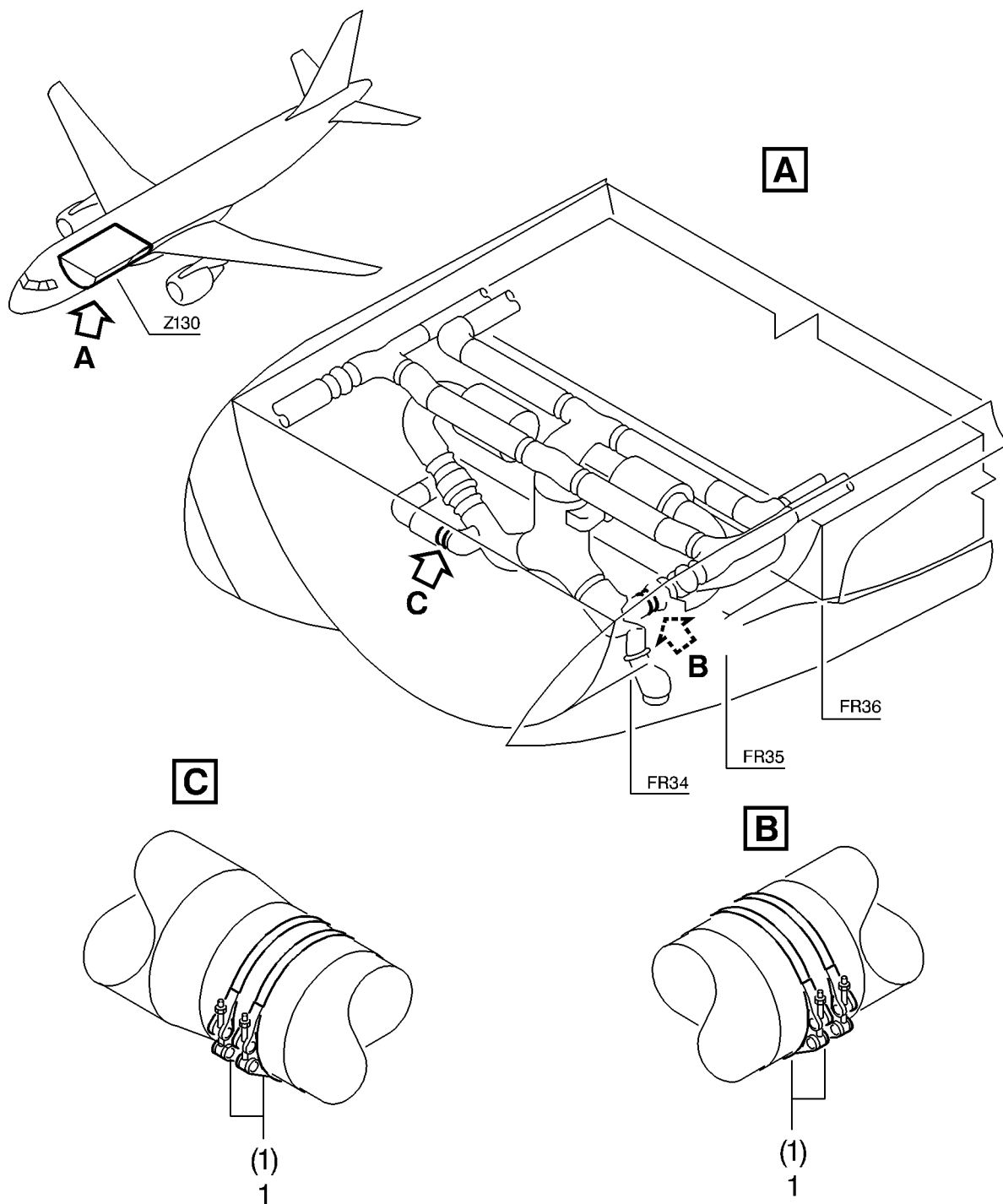
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Figure 2 Sheet 1
Replace the Clamps at Mixer Unit

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SERVICE BULLETIN 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:

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31707 BLAGNAC CEDEX FRANCE

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

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SERVICE BULLETIN QUALITY PERCEPTION FORM

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

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

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

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

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

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

Comments :

Operator :

Date:

Name/Title :

Please return this form to :

AIRBUS
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC
Attn : SEM4 Service Bulletins Management
FAX : (33) 5 61 93 42 51

Or via your Resident Customer Support Office.

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