@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** **-** **AIR** **COOLING** **-** **INTRODUCE** **INSULATION** **COVER** **ON** **ALL** **OPTIONAL** **OZONE** **CONVERTERS**

**\*\*CONF** **ALL**

**MODIFICATIONS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MODIFICATION CLASSIFICATION | | | | | |
| MAJOR | None | | | | |
| MINOR | 155206K17084 |  |  |  |  |

NOTE: As per EASA IR 21, a minor change is one that has no appreciable effect on the mass, balance, structural strength, reliability, operational characteristics affecting the airworthiness of the product. All other changes are major changes.

**REASON/DESCRIPTION/OPERATIONAL** **CONSEQUENCES**

Some operators have reported air leaks in the LH and RH wing areas during ground temperature conditions of over 45 degrees Celsius. High temperatures have been detected at the top of the air conditioning packs in the pack bay areas (Zone 191 and Zone 192). The cause of the air leaks is high temperatures in the air conditioning pack bay areas.

This Service Bulletin is issued to detail instructions for the addition of an insulation cover around the ozone converters, 100HM and 101HM, located in the LH and RH air conditioning pack bay areas.

Accomplishment of this Service Bulletin will ensure that the ozone converters are insulated from high external ground temperatures. Thus the risk of air leaks in the air conditioning pack bay areas due to high temperatures will decrease.

**GENERAL** **EVALUATION**

|  |  |  |  |
| --- | --- | --- | --- |
| EVALUATION TABLE | | | |
| COMPLIANCE | RECOMMENDED (1) | CANCELS INSPECTION SB | NO |
| POTENTIAL AD | NO | A/C OPERATION AFFECTED | NO |
| RELIABILITY AFFECTED | NO | PAX COMFORT AFFECTED | NO |
| COST SAVING | NO | ETOPS AFFECTED | NO |
| STRUCTURAL LIFE EXTN | NO | VENDOR SB INVOLVED | NO |

NOTE (1) : Service Bulletin recommended to be accomplished to prevent significant operational disruptions.

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 1

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

SUMMARY

**MATERIAL** **PRICE** **INFORMATION**

|  |  |  |  |
| --- | --- | --- | --- |
| MATERIAL PRICE INFORMATION TABLE | | | |
| **MATERIAL** **SET** | **QTY** **PER** **A/C** | **PRICE** **PER** **A/C** **(USD)** | **MAIN** **PARTS** |
| Kit 211214D01R01 | 1 | 1,350.00 | Insulation cover, Tie-wrap, Nut |

**EFFECTIVITY**

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 03X | 09S | 11S | 15T | 17R | 17W | 19R | 20Q | 26S | 27V | 29S | 31V | 31X |
| 35T | 38W | 43S | 52T | 53X | 53Z | 56W | 64S | 66X | 69X | 74T | 79W | 80X |
| 85T | 86W | 86Z | 89T | 90R | 91X | 93V | 95W | 96V | 98W | AAF | AAL | AAR |
| AAY | ABL | ABQ | ABY | ACA | ACI | ADH | ADR | AEE | AFL | AFR | AGC | AHY |
| AIJ | ALK | AMC | AMU | ANA | ANR | ANZ | AOJ | APJ | ARR | ART | ARU | AUA |
| AVA | AWC | AWW | AXM | AZI | AZW | BAL | BAW | BEC | BEL | BER | BGF | BGH |
| BGY | BHP | BJN | BKP | BRS | C2C | C8J | C9G | CBJ | CCA | CCM | CEB | CEF |
| CES | CFG | CHB | CHH | CIB | CQH | CQN | CRK | CSA | CSC | CSN | CSZ | CTV |
| CUA | CYP | D2F | DAL | DCS | DKH | DLH | DNV | EAA | EDW | EIN | ETD | ETJ |
| EVA | EVE | EZD | EZY | F2I | FFT | FHY | FIN | FLI | FPY | FRN | G2X | GAF |
| GAP | GCR | GFA | GLG | GMI | GMR | GWI | GZQ | HAY | HDA | HKE | HKJ | HRM |
| HVN | I2L | IAC | IAW | IBS | IRA | IRM | ISR | ISS | IYE | JAS | JAT | JAV |
| JBU | JJP | JSA | JST | KAC | KCA | KFR | KGL | KHO | KHV | KKK | KMF | KNE |
| KZR | LAA | LAN | LAO | LBT | LBY | LFO | LJB | LLC | LLM | LLP | LMJ | LMU |
| LZB | MAC | MEA | MJF | MLD | MLM | MLR | MMA | MML | MON | MSR | NKS | NLV |
| NLY | NMA | NMB | NVD | NVR | NWS | OAW | OBS | OHY | ONE | ORF | OZW | PAL |
| PIC | QAF | QDA | QTR | RAM | RBA | RBG | RFJ | RJA | RJD | RKM | RNV | RYW |
| RZO | S2A | SAA | SAI | SBI | SDM | SFJ | SFW | SGG | SGL | SGX | SHU | SKU |
| SND | SNX | SOL | SRQ | SUD | SVA | SVR | SVW | SWM | SWR | TAE | TAI | TAK |
| TAM | TAP | TBZ | TCW | TCX | THY | TJS | TNA | TVS | UAE | UAL | UEA | UKN |
| ULG | UNA | USA | UTA | VAR | VIM | VIP | VJC | VKG | VLG | VLK | VNL | VOI |
| VRD | VRE | VVC | WGT | WHT | WOW | WRC | WTJ | WZZ | XLF |  |  |  |

**CONCURRENT** **REQUIREMENTS**

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of the following Service Bulletins as per effectivity specified in these Service Bulletins:

Service Bulletin No. A320-21-1031

A320-21-1119

A320-21-1183

A320-21-1205

A320-21-1212

NOTE:

NOTE:

NOTE:

Service Bulletin No. A320-21-1031 (AIR CONDITIONING - AIR COOLING - INSTALL OZONE CONVERTERS) which applies Modification No. 21215K1234

Service Bulletin No. A320-21-1119 (AIR CONDITIONING - AIR COOLING - INSTALL OZONE CONVERTER ENGELHARD PN 20499003 OR PN 20499004) which applies Modification No. 21215K1234

Service Bulletin No. A320-21-1183 (AIR CONDITIONING - AIR COOLING - INSTALL

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 2

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

SUMMARY

OZONE CONVERTER ENGELHARD PN 20499005 OR PN 20499006) which applies Modification No. 21215K1234

NOTE:

NOTE:

Service Bulletin No. A320-21-1205 (AIR CONDITIONING - AIR COOLING - INSTALL VOC/OZONE CATALYTIC CONVERTER FOR A/C WITH A318-TYPE ECS) which applies Modification No. 21215K1234

Service Bulletin No. A320-21-1212 (AIR CONDITIONING - AIR COOLING - INSTALL VOC/OZONE CATALYTIC CONVERTER FOR A/C WITHOUT A318-TYPE ECS) which applies Modification No. 21215K1234

**REFERENCES** **/** **REPERCUSSIONS**

|  |  |
| --- | --- |
| TFU | None |
| OEB | None |
| AOT | None |
| SIL | None |
| LINE MAINTENANCE AFFECTED | No |
| LIFE LIMIT | None |
| OTHER | None |

**NATURE** **OF** **THE** **WORK**

|  |  |
| --- | --- |
| AIRCRAFT | YES |
| EQUIPMENT | YES |
| HARD | NO |
| SOFT | NO |
| OBRM | NO |

**MANPOWER**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  |  | | --- | --- | --- | --- | | Task 211214 | 831 | 848 | 001: Modification | | |
| TOTAL MANHOURS | 3.50 |
| ELAPSED TIME (HOURS) | 3.50 |

**APPENDICES**

None

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 3

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

**A**

|  |
| --- |
| 101HM |

**B**

Z190

FR38

|  |
| --- |
| **A** |

|  |
| --- |
| 100HM |

SERVICE BULLETIN

SUMMARY

**\*\*CONF** **ALL**

**B**

FR35

|  |
| --- |
| **B** |

**NOTE:**

AREA OF MODIFICATION.

TYPICAL

N\_SB\_211214\_6\_SAAA\_01\_00

Figure A-GSAAA - Sheet 01

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 4

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

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

ATA SYSTEM: 21

**TITLE:** **AIR** **CONDITIONING** **-** **AIR** **COOLING** **-** **INTRODUCE** **INSULATION**

**COVER** **ON** **ALL** **OPTIONAL** **OZONE** **CONVERTERS**

MODIFICATION No.: 155206K17084

This document contains AIRBUS PROPRIETARY INFORMATION and shall at all times remain the

property of AIRBUS; no intellectual property right or licence is granted by AIRBUS in connection with any information contained in it. It is delivered on the express condition that said document and the information contained in it shall be treated as confidential, shall not be used for any purpose other than that for which it is hereby delivered. It shall not be disclosed in whole or in part to third parties and shall not be duplicated in any manner (except for the purposes of performing the tasks described hereunder and provided that any recipient of such document shall comply with the conditions herein), without AIRBUS prior written consent.

**1.** **PLANNING** **INFORMATION**

**\*\*CONF** **ALL**

**A.** **EFFECTIVITY**

(1) Models

318-111 318-112 318-121 318-122 319-111 319-112 319-113 319-114

319-115 319-131 319-132 319-133 320-211 320-212 320-214 320-216

320-231 320-232 320-233 321-131 321-211 321-212 321-231 321-232

(2) Effectivity by MSN

0029 0052-0055 0059 0064-0068 0073 0076-0077 0081-0082 0084-0085 0099 0118

0121-0122 0125-0127 0141 0149-0150 0152-0154 0159-0160 0164 0168 0171

0174-0175 0179 0183 0189-0190 0192 0197 0203 0206 0208 0210 0213 0220

0229-0235 0242-0243 0248-0251 0253-0255 0262-0263 0265 0272-0273 0277 0279

0281-0282 0284 0289-0292 0294 0297-0299 0301-0302 0306-0309 0311 0314

0317-0319 0324 0329-0335 0339-0343 0347 0349-0350 0354-0355 0357-0362 0367

0371-0373 0376 0378 0380-0381 0384 0386-0389 0391-0393 0395 0399-0400

0403-0410 0414-0415 0417-0418 0420 0422 0424 0426-0430 0435-0436 0439-0442

0444 0447-0450 0452 0454-0457 0460-0466 0470-0472 0475-0476 0479-0480 0483

0485 0487 0489 0491 0496-0497 0500 0503-0504 0506 0508 0510 0512 0523 0525

0527-0528 0530 0539-0540 0542-0543 0546 0548 0550-0551 0556-0558 0561 0565

0568 0571-0573 0575 0579-0580 0582 0584 0587-0589 0591-0592 0597 0604

0613-0614 0620 0630-0631 0633-0634 0638-0640 0644-0645 0647 0649 0653

0655-0657 0659-0661 0663 0666-0668 0670-0672 0674-0676 0678 0680 0682-0684

0686-0688 0690-0691 0693 0695 0697 0702 0707 0711 0714-0716 0719 0721

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 1

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

0724-0726 0728 0730 0732-0733 0735-0737 0739-0743 0747-0749 0751-0752

0756-0762 0764 0766 0769-0770 0772-0773 0775 0778-0781 0783-0788 0792 0795

0798-0805 0807-0808 0811 0813-0818 0820 0823-0826 0828-0832 0834-0836

0839-0847 0850-0851 0856-0858 0861-0863 0865-0868 0871 0873-0874 0877-0879

0882-0883 0885 0888-0890 0892-0893 0896 0898 0902-0904 0907-0908 0911-0916

0919 0922-0925 0927-0932 0934 0936 0941 0943-0944 0946 0948-0949 0952-0955

0961-0965 0972-0973 0976-0978 0980-0981 0983 0988-0991 0993 0996-0997 1001

1003-1008 1010-1011 1013 1015 1017 1019 1022 1024 1031 1033 1037-1038 1040

1042-1043 1046 1049-1053 1055-1056 1058 1060-1062 1064-1066 1069 1071-1073

1075 1077-1079 1083-1084 1088-1093 1095-1097 1103-1105 1107-1112 1114 1116

1121-1123 1126 1128-1131 1134-1136 1139-1141 1143 1146-1149 1152 1155-1156

1158-1159 1163-1164 1166-1167 1170-1171 1173-1175 1178 1182 1184-1185

1191-1192 1194-1196 1198-1199 1202-1205 1209-1213 1215 1219 1223-1224 1227

1229-1230 1233-1235 1238 1240-1241 1243 1245-1246 1248-1251 1254-1255 1257

1262-1266 1268-1270 1272 1274-1275 1277 1280-1282 1284-1294 1297-1298

1300-1304 1309-1311 1313-1315 1317-1319 1321 1323-1328 1331-1332 1334

1339-1343 1346-1348 1350-1356 1358-1360 1363-1364 1368-1369 1371-1373

1375-1378 1382 1385-1386 1389-1393 1395 1397-1398 1400-1401 1403 1405-1406

1408-1412 1414 1417 1419-1421 1425-1427 1429 1431-1432 1434-1436 1438

1441-1442 1446-1447 1451-1453 1455-1456 1459-1460 1462-1463 1465 1468-1470

1472 1474-1475 1477 1481-1483 1486-1488 1490-1496 1498-1501 1503-1504

1506-1509 1512 1514-1515 1517-1523 1525-1528 1530-1531 1533-1536 1538-1541

1543-1549 1551-1553 1555 1557 1559-1560 1562-1571 1573 1575-1586 1588 1591

1593 1595-1603 1605 1607-1615 1617-1618 1620-1621 1623-1630 1632-1638 1641

1643-1644 1646-1654 1656-1657 1659 1662-1664 1666-1673 1676 1678-1680

1683-1686 1688 1692-1693 1701-1707 1709-1710 1712 1714 1717-1720 1724-1728

1730-1731 1734-1735 1737-1739 1741-1744 1746-1752 1755-1759 1761-1767 1769

1771-1776 1778 1780-1781 1783-1792 1794 1796-1797 1800-1806 1808 1810-1812

1815 1818-1821 1823-1828 1831-1835 1837-1842 1844-1847 1849-1858 1860-1868

1870 1872 1874-1878 1880-1882 1884 1886-1893 1895-1898 1901-1905 1909

1912-1913 1915-1917 1920-1929 1931-1932 1934-1935 1937 1940-1945 1947-1957

1959-1963 1965-1968 1970-1978 1980 1982-1983 1986 1988-1990 1994-1997

2000-2020 2023-2024 2026 2028-2032 2039 2041-2042 2044-2048 2052 2054-2055

2060-2061 2063-2067 2069 2072 2075-2078 2080 2082 2084 2087 2089 2091-2093

2095-2097 2099 2102-2103 2105-2108 2110 2113-2114 2116-2118 2121-2126 2128

2132-2136 2138-2139 2141-2142 2144-2147 2149-2152 2154 2156 2158-2169

2171-2172 2175 2177-2179 2182-2183 2185-2187 2189-2191 2193 2195 2197-2209

2211 2215-2217 2222 2224 2226-2227 2231-2234 2236-2237 2240-2241 2243

2246-2247 2253-2255 2258-2261 2263 2265-2267 2269 2271 2273 2275 2277-2278

2280 2282 2284-2288 2290-2291 2293 2295-2296 2298 2301-2304 2307 2310 2312

2314 2316 2318-2319 2321 2325 2327-2328 2330-2337 2339-2343 2345 2349 2352

2354 2356 2358-2359 2361-2362 2366-2369 2371-2374 2376-2377 2382-2384

2386-2388 2390 2392-2401 2404-2410 2413-2415 2417 2419-2423 2425-2427

2430-2435 2439-2441 2443-2445 2447-2450 2452-2454 2457-2459 2461 2464-2465

2467-2468 2470 2473-2474 2476 2480 2482-2485 2487 2489-2491 2496-2497 2499

2502 2504-2506 2508-2509 2511 2513 2516 2518 2520-2523 2525 2529-2530 2532

2535 2539-2540 2542 2544-2545 2551-2553 2559-2560 2566-2567 2570-2572

2574-2575 2577 2579-2580 2583 2585 2588 2590 2592-2593 2595-2596 2598

2602-2604 2607 2609-2610 2613-2616 2618-2620 2622-2624 2626 2628-2632 2635

2637 2640-2641 2643 2645 2647-2650 2653-2655 2657-2662 2665-2669 2671

2673-2674 2676 2678-2680 2685 2687-2690 2692 2694-2698 2700-2701 2704

2707-2708 2710-2714 2718-2720 2723 2725-2726 2730-2732 2734 2737-2741 2743

2745 2747-2749 2751-2753 2755 2758-2759 2761-2764 2767-2768 2770-2774 2776

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 2

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

2778 2780-2781 2783-2786 2788-2791 2793-2794 2796-2802 2804-2806 2808-2811

2813-2815 2819-2821 2823-2824 2828 2830-2840 2845-2849 2851-2853 2855

2857-2859 2861-2862 2864-2865 2867-2868 2871-2872 2874 2876-2880 2886-2887

2890-2894 2896 2898-2902 2904-2905 2910 2913 2915 2917 2921-2922 2924-2925

2927-2930 2934-2936 2939-2943 2945 2948-2950 2953-2954 2960 2962-2964

2968-2971 2974-2979 2981 2983-2988 2991-2994 2997 2999 3001-3002 3005-3007

3010-3017 3019-3033 3035 3037 3039-3040 3042-3049 3055-3058 3060 3062

3066-3072 3074-3075 3077 3083-3085 3089 3091 3093-3095 3097 3101 3103 3105

3107-3108 3111-3114 3116 3119-3121 3123-3126 3128-3129 3131 3133 3135-3136

3138-3139 3141-3142 3144 3150 3152-3153 3155-3156 3158 3161 3164-3165 3167

3171-3172 3175 3180-3181 3185 3188 3190 3193 3195-3196 3198-3200 3202

3204-3205 3207-3208 3210-3211 3214-3218 3221-3222 3226 3228-3230 3234

3238-3246 3248 3250-3253 3256-3258 3260 3263-3264 3266 3268-3270 3272 3274

3276 3278-3280 3283-3285 3287 3289 3293-3294 3297 3303-3304 3309 3311 3313

3315 3317-3319 3321 3324-3325 3330-3331 3337 3341-3342 3345-3350 3352

3355-3356 3358-3359 3361 3363 3365-3366 3368-3369 3371 3374-3375 3378 3381

3385-3386 3388-3393 3395-3398 3405-3408 3415-3418 3421-3425 3428-3429 3431

3433 3436-3440 3444-3447 3449-3452 3454 3456 3458-3463 3465 3467 3469

3472-3476 3478-3480 3483-3485 3487-3488 3490-3496 3500-3501 3503-3504

3506-3510 3512 3514 3516-3519 3522 3525-3527 3529 3534-3535 3538-3540 3542

3547 3552 3554 3556 3558 3564-3567 3572 3577 3581 3583-3588 3590-3591

3594-3596 3599-3606 3614 3617 3622 3624 3626 3629-3630 3633 3635-3636

3641-3642 3645-3647 3654 3656 3658-3664 3667-3672 3680-3681 3684-3686

3689-3691 3693-3694 3700 3704-3710 3712-3714 3718-3719 3724 3727-3728 3730

3733 3736-3737 3739-3740 3743 3745 3747 3749-3751 3753 3757-3762 3764 3767

3769-3770 3772-3773 3779-3780 3783-3785 3787 3790-3791 3796 3800-3804 3809

3811 3816-3817 3819-3820 3826 3828-3830 3832-3834 3836-3837 3839-3841 3847

3850 3852 3856-3858 3860-3862 3865-3869 3873 3876 3878-3881 3883 3886

3889-3894 3896-3897 3899 3901-3903 3905 3907-3908 3910-3911 3916-3917 3920

3924-3926 3928 3931-3934 3938 3941 3944-3945 3948-3949 3951 3957 3959-3962

3964 3966-3967 3969 3972 3977 3980-3981 3983-3985 3988-3990 3992-3993

3995-3996 3999-4001 4003 4011 4013 4015 4017-4018 4021 4025-4026 4030

4032-4033 4036 4038 4041-4042 4044-4046 4049-4051 4055 4057 4059-4061

4064-4068 4071-4072 4077 4081-4083 4086 4090 4092-4095 4100-4102 4104

4106-4107 4110 4112 4114-4115 4122-4124 4127-4128 4130 4134-4136 4140 4142

4145-4146 4149-4151 4154 4158 4161 4163 4165-4173 4175 4183-4184 4187-4189

4192 4194 4197-4200 4202 4204-4207 4209 4211 4213 4217-4218 4222 4224-4225

4227-4228 4230-4232 4235 4242-4244 4248 4252-4256 4258 4260 4264 4266

4269-4277 4279 4281-4282 4284-4285 4287-4288 4290-4292 4294 4296 4299 4301

4304-4305 4307 4310-4311 4314-4316 4319-4322 4325-4326 4329 4331 4334

4336-4339 4341 4345 4347 4349-4350 4352-4354 4357-4358 4362 4364-4366

4368-4370 4373-4376 4378-4379 4381-4383 4387-4389 4391-4394 4396-4397

4400-4401 4403 4405-4406 4408 4411-4414 4416 4419-4420 4422 4424 4428-4433

4436 4439-4442 4446 4448 4450 4454 4456 4463 4465 4467 4470-4471 4475-4476

4478-4480 4482-4484 4487 4490 4496 4499 4501-4503 4505 4507 4509-4510

4512-4513 4516-4517 4519 4525-4526 4530 4534 4540-4544 4546-4550 4555

4558-4559 4562-4565 4567 4569-4570 4572-4573 4575-4578 4580-4581 4586-4587

4589-4590 4592 4594-4595 4597-4600 4602 4605-4606 4610-4613 4615-4616

4618-4619 4622-4623 4627 4629 4631-4632 4634 4638 4641-4644 4647-4648 4650

4652-4655 4657-4662 4665 4668-4671 4673-4675 4677-4678 4681-4682 4685-4688

4690 4694-4700 4702-4704 4706-4707 4709 4711 4713 4715 4718 4720 4722-4723

4727-4735 4737-4739 4741-4743 4745-4746 4748 4750-4751 4754-4756 4758

4760-4761 4763 4765 4767-4769 4773-4774 4776-4777 4779-4780 4782-4784

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 3

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

4788-4790 4794 4798-4799 4802 4805 4808-4811 4814-4817 4821-4828 4830-4833

4836 4838-4840 4842-4844 4847 4849-4851 4853-4858 4860-4865 4867 4869-4871

4877-4878 4880 4883-4887 4891-4894 4896 4898 4902-4907 4909 4911-4913 4915

4917 4919 4921 4923-4926 4928 4930 4932-4946 4948 4950-4951 4953 4955 4957

4959-4962 4964 4966-4968 4970-4972 4974 4978 4981-4984 4987-4988 4990-4992

4996 4998-5001 5003-5013 5015 5022-5026 5029-5031 5034-5035 5037-5038

5040-5043 5047-5048 5051 5053 5055 5057-5058 5060-5063 5065-5066 5068-5072

5074 5077-5078 5081 5083 5086 5088 5093 5095-5097 5099-5103 5106-5109

5114-5115 5117-5119 5121 5125-5128 5131-5136 5140-5142 5144-5145 5147-5148

5151-5154 5156 5158-5164 5166-5173 5175 5177-5180 5182-5185 5189 5191-5193

5195 5197 5200 5202 5205 5207-5210 5212-5214 5216-5217 5219-5223 5225-5227

5229 5233-5235 5237-5238 5240-5247 5251-5255 5257 5260 5263-5264 5266-5269

5273-5275 5277-5282 5285-5288 5290 5292 5297 5299-5300 5302-5304 5306

5308-5310 5312 5314 5316-5317 5321-5322 5324-5333 5336-5343 5345 5348-5351

5354-5358 5360-5364 5367-5368 5370 5372-5374 5376-5380 5382 5384-5385

5387-5389 5391-5396 5398-5399 5401-5410 5412 5415-5418 5422 5427 5429 5431

5434 5438-5440 5443-5447 5450 5453-5459 5461-5462 5464-5467 5469-5471 5475

5477-5481 5483-5485 5488 5490-5495 5499-5500 5503-5506 5508-5520 5522-5524

5527-5528 5530 5533-5535 5538 5540-5541 5543-5549 5551 5554-5556 5558-5562

5564 5567 5569 5571 5574-5575 5579 5582-5584 5586-5588 5591 5594-5595

5597-5599 5602 5606-5607 5609 5611-5613 5616 5618 5620-5624 5626 5628 5630

5632-5633 5636-5637 5640 5642-5657 5659 5661 5663 5665-5668 5670-5674

5677-5681 5684 5686 5689 5691 5693 5695-5696 5698-5701 5704-5705 5707

5709-5711 5713-5714 5716-5717 5720 5722-5724 5726 5728 5730 5732-5737

5740-5741 5745-5746 5748-5756 5758-5761 5763-5765 5767-5770 5773-5774

5776-5779 5781-5783 5786 5788-5791 5793 5795-5801 5803-5804 5808 5810

5816-5819 5821 5823 5826-5827 5830-5832 5834 5836-5837 5840-5845 5848-5849

5852 5854 5859-5862 5864-5865 5867-5868 5870 5873-5887 5890 5895-5896 5899

5901-5902 5904 5907 5909-5913 5916 5919-5922 5924-5926 5929-5933 5935-5942

5944-5947 5949-5950 5953-5958 5960-5961 5963-5970 5972-5978 5980 5982-5983

5987-5989 5991 5994-5999 6002-6009 6012 6014 6016-6018 6020 6022 6024

6026-6027 6029-6031 6033 6035 6037 6039-6046 6049-6050 6052-6053 6055 6057

6059-6063 6065-6071 6073 6078-6079 6081-6083 6085 6087 6089-6090 6092 6094

6097 6099-6100

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

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| 03X | 2421 |
| 09S | 1300 1353 |
| 11S | 4211 |
| 15T | 0764 1494 2910 3164 |
| 17R | 5768 |
| 17W | 3046 |
| 19R | 1017 |
| 20Q | 4842 |
| 26S | 0424 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 4

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| 27V | 3826 |
| 29S | 0291 0292 |
| 31V | 0164 0332 0420 0436 |
| 31X | 4319 |
| 35T | 5040 |
| 38W | 1194 |
| 43S | 4650 |
| 52T | 1599 |
| 53X | 6069 |
| 53Z | 1468 |
| 56W | 0250 0335 |
| 64S | 0557 0597 |
| 66X | 0230 |
| 69X | 0449 0588 0733 0747 |
| 74T | 2165 4228 4768 |
| 79W | 3751 |
| 80X | 2748 |
| 85T | 0234 |
| 86W | 0384 |
| 86Z | 0168 0460 0461 0497 2874 |
| 89T | 3356 |
| 90R | 5963 |
| 91X | 2837 |
| 93V | 3932 |
| 95W | 2949 |
| 96V | 4470 |
| 98W | 0441 |
| AAF | 0639 0808 0823 1006 1846 3136 3242 3289 3852 4589 4675 6012 |
| AAL | 5327 5678 5698 5704 5745 5753 5761 5781 5786 5788 5789 5798  5810 5827 5834 5842 5860 5884 5895 5904 5932 5938 5946 5955  5975 5983 5991 6020 6040 6046 6063 6070 6085 6094 |
| AAR | 0802 1174 1356 1670 1734 2041 2110 2226 2247 2290 2397 2459  2808 2840 3244 3297 3437 3483 3496 3641 3873 4112 4142 5035  5169 5173 5287 5350 5382 5462 5500 5636 5767 5774 |
| AAY | 1229 1255 1262 1288 1292 1318 1347 2224 2319 2387 |
| ABL | 1227 1636 1970 2045 2943 |
| ABQ | 3385 3388 |
| ABY | 2764 3246 3444 3476 3626 3802 3840 3925 4061 4243 4310 |
| 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 0284 0290 0309 0324 0330 0341 0378 0403 0404 0546  0572 0634 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 1632 1638 1673 1719 1726 1742 1748 1772 1783 1811 1853  1864 1874 1940 2018 2145 |
| ACI | 2152 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 5

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| ADH | 3138 3161 |
| ADR | 0444 4282 4301 |
| AEE | 2468 3033 3066 3074 3365 3392 3423 3439 3462 3478 3526 3527  3709 3714 3745 3753 3773 3785 3820 3829 3850 3878 3990 4065  4094 4165 |
| AFL | 2052 2069 2072 2091 2093 2106 2116 2133 2144 2151 2163 2179  2233 2243 2330 2337 2342 5720 5755 5790 5873 5881 5913 5921  5967 5970 5974 5982 5989 6017 6022 6043 6044 6060 6071 6090 |
| AFR | 0491 1924 1949 |
| AGC | 0190 |
| AHY | 0331 2487 2516 2588 2685 2788 2846 2853 2865 2991 3006 |
| AIJ | 0707 1747 1780 2048 2189 2227 2539 3021 3123 3304 3374 3508  3514 3667 3690 4235 4304 4411 4730 4733 4924 4933 5163 5221  5358 5372 5653 5665 5867 5878 5933 |
| ALK | 2345 4694 4869 4915 5086 |
| AMC | 2113 2122 2142 2291 2332 2382 2665 2768 3056 3068 |
| AMU | 0620 0631 0805 0908 0928 1758 1790 1850 1893 1912 1926 1962  4197 5459 5523 |
| ANA | 5901 5926 |
| ANR | 0726 |
| ANZ | 2445 4884 4926 |
| AOJ | 4503 |
| APJ | 4887 4936 5015 5166 5304 5384 5440 5540 5640 5724 5874 6004 |
| ARR | 0913 |
| ART | 0279 0311 0333 0359 0426 0936 |
| ARU | 0573 0582 |
| AUA | 1385 1504 1553 1678 1735 1931 1937 2009 |
| AVA | 1612 1634 2066 2328 2333 2358 2367 2377 2394 2523 2544 2552  2575 2662 3408 3467 3518 3647 3664 3691 3961 3980 3988 3992  4001 4011 4026 4046 4051 4100 4167 4175 4200 4281 4284 4345  4381 4487 4567 4599 4763 4789 4821 4862 4939 5057 5119 5195  5243 5360 5398 5454 5477 5622 5632 |
| AWC | 2791 |
| AWW | 2443 |
| AXM | 2425 4917 4964 5153 5200 5325 5431 5505 5547 5657 |
| AZI | 0527 |
| AZW | 0630 1973 |
| BAL | 2335 3492 |
| BAW | 2190 2441 2653 2694 2697 2720 2799 2981 3049 3512 3926 |
| BEC | 3199 |
| BEL | 0644 1441 1493 1797 1838 1963 2392 2400 2810 3790 4275 |
| BER | 1629 1966 1988 1994 2003 2005 2619 3055 3093 3121 3415 3447  3516 3661 3689 3708 3728 3749 3865 3945 4013 4101 4161 4269  4291 4329 4334 4433 4510 4565 4606 4674 4728 4743 4988 5038  5126 5133 5191 5246 |
| BGF | 3188 |
| BGH | 0349 3139 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 6

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| BGY | 2118 2645 |
| BHP | 2968 3245 3422 3604 4033 4187 4294 4631 |
| BJN | 3617 |
| BKP | 2254 2310 2417 2509 2648 2660 2783 3421 3424 3454 3694 3759  3911 |
| BRS | 2263 |
| C2C | 5088 5907 |
| C8J | 5545 |
| C9G | 0772 1624 1676 |
| CBJ | 4388 4428 5630 5722 5848 5997 6041 |
| CCA | 2000 2007 2015 2172 2202 2205 2237 2269 2285 2293 2298 2454  2499 2508 2525 2532 2545 2551 2559 2614 2643 2805 2819 2839  2847 2890 3195 3200 3215 3221 3226 3250 3337 3461 3506 3601 |
| CCM | 4463 4478 5887 |
| CEB | 2786 2790 2821 2831 2852 2876 2994 3048 3272 3433 3472 3487  3646 3762 3767 4861 4870 |
| CEF | 2801 3085 |
| CES | 0828 0883 0914 0925 1005 1072 1093 1108 1285 1303 1377 1386  1541 1551 1601 1603 2171 2182 2199 3969 4045 4198 4209 4252  4374 4627 4638 4659 4685 4702 4709 4711 4718 4722 4723 4729  4746 4748 4765 4769 4776 4799 4831 4844 4857 4877 4886 4903  4938 4946 4967 4987 5047 5048 5053 5063 5135 5136 5144 5156  5192 5210 5227 5242 5267 5273 5309 5326 5330 5338 5363 5376  5380 5402 5412 5439 5461 5481 5508 5516 5519 5524 5527 5558  5575 5623 5628 5668 5691 5700 5705 5710 5711 5726 5735 5759  5770 5823 5826 5852 5864 5886 5920 5942 5973 5998 6052 6062  6089 |
| CFG | 5969 6053 |
| CHB | 5626 5679 5740 5760 5912 |
| CHH | 2849 2891 2985 3285 4042 4412 4440 4471 4482 4483 4505 4513  4540 4569 4580 4600 4602 4644 4677 4686 4687 4739 4825 5006  5008 5072 5100 5114 5117 5172 5185 5216 5220 5331 5471 5656 |
| CIB | 1607 1968 |
| CQH | 0978 1686 1769 1852 1920 2939 3014 3023 3747 3819 4072 4093  4168 4244 4331 4366 4373 4375 4499 4586 4738 4750 4760 4809  4816 4909 4978 4983 5022 5051 5108 5378 5403 5434 5446 5466  5562 5778 5816 5911 6073 |
| CQN | 3836 3876 3901 3903 3941 5645 5713 |
| CRK | 5147 5189 5416 5514 5544 6003 |
| CSA | 2719 2758 2789 3031 3043 3060 3094 3097 3406 3436 3452 3660  3892 4258 4713 |
| CSC | 0540 0550 0551 0556 0591 0878 0902 0912 0915 0919 1007 1013  1500 2396 2431 3114 3116 3124 3158 3167 3196 3210 3386 3449  3583 3591 3680 3730 3893 3962 3996 4018 4068 4288 4326 4378  4420 4424 4525 4575 4619 4642 4660 4707 4731 4824 4830 4856  4905 4911 4923 5041 5121 5141 5160 5197 5208 5233 5286 5303  5389 5470 5543 5609 5646 5647 5650 5670 5765 5868 5896 5910  5937 5953 5964 5977 6008 6030 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 7

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| CSN | 1596 1614 1776 1788 1971 1974 1986 1995 2004 2008 2067 2080  2200 2203 2232 2273 2354 2361 2371 2408 2426 2435 2484 2505  2506 2511 2521 2530 2574 2579 2637 2667 2680 2689 2701 2708  2713 2714 2741 2743 2759 2767 2770 2772 2796 2809 2815 2824  2834 2855 2861 2877 2899 2901 2915 2936 2940 2948 2950 2960  2969 2971 2986 3020 3067 3075 3112 3144 3217 3241 3251 3258  3269 3311 3342 3459 3493 3507 3552 3566 3587 3645 3681 3764  3784 3828 3847 3860 3867 3890 3910 3920 3934 3938 3951 3959  3981 3983 3999 4003 4017 4036 4038 4071 4140 4172 4184 4189  4194 4205 4217 4224 4225 4230 4232 4248 4260 4266 4271 4274  4279 4290 4292 4299 4322 4325 4338 4341 4350 4362 4365 4369  4370 4387 4396 4416 4430 4456 4507 4550 4613 4671 4696 4751  4782 4794 4808 4836 4854 4864 4880 4883 4912 4919 4928 4982  5061 5151 5168 5170 5183 5202 5214 5225 5237 5268 5279 5288  5410 5480 5484 5503 5506 5534 5561 5564 5579 5602 5611 5655  5671 5693 5730 5736 5750 5756 5797 5817 5832 5837 5875 5890  5930 5945 5949 5976 6018 6049 6078 |
| CSZ | 2905 2935 3131 3153 3366 3440 3456 3599 |
| CTV | 0839 0892 1635 2598 2692 3861 4961 5351 5379 5394 5399 5415  5511 5541 5551 5556 5560 5571 5574 5597 5777 5830 |
| CUA | 5023 |
| CYP | 2108 2275 2334 2343 2359 |
| D2F | 0243 0251 |
| DAL | 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 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 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 1820 1824 1828  1833 1839 1875 1897 1923 1959 1976 1982 1990 2002 2013 2026  2039 2047 2082 2087 2092 2095 |
| DCS | 1053 3243 |
| DKH | 2975 3027 3234 3268 3368 3485 3596 3605 3967 3984 4064 4102  4154 4276 4401 4429 4573 4587 4652 4833 4840 4981 5013 5070  5071 5131 5226 5329 5339 5455 5491 5674 5737 5876 |
| DLH | 5741 5769 5831 5935 5972 6006 6033 6092 |
| DNV | 1630 1805 1808 1841 2241 2751 |
| EAA | 0386 |
| EDW | 2024 |
| EIN | 1983 2001 2191 2206 2217 2374 2399 2409 2432 2542 2583 2635  3129 3318 3345 3501 3857 4572 4634 4678 4715 |
| ETD | 0350 1140 1159 1944 1945 1947 1955 2167 3693 3713 3902 4066  4077 4124 4934 5095 5348 5407 5714 5791 5821 5836 5882 5924 |
| ETJ | 0428 |
| EVA | 3363 5328 5354 5377 5485 5808 5849 6024 6042 6087 |
| EVE | 5642 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 8

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| EZD | 0667 0743 0874 1286 2141 2147 |
| EZY | 2265 2271 2398 2420 2427 2450 3084 |
| F2I | 0085 0220 0249 0294 0301 0373 0391 0393 0724 0758 |
| FFT | 1515 1579 1583 1615 1684 1759 1781 1786 1803 1806 1860 1943  1980 1997 2010 2012 2017 2019 2030 2103 2198 2209 2236 2240  2253 2258 2260 2287 2318 2325 2406 2448 2483 2518 2806 2836  2857 3205 3389 3431 4127 4204 4253 4254 4272 4307 4562 4641  4668 4688 4704 4727 4745 5661 |
| FHY | 0580 2804 4207 4658 5096 |
| FIN | 0941 0961 1073 1107 1184 1185 1241 1309 1352 1364 1405 1470  1544 1588 1712 1913 1916 1978 1989 2065 2124 2146 2154 2208  2266 5758 5803 5922 5961 6083 |
| FLI | 2186 3905 |
| FPY | 0189 0342 0395 |
| FRN | 0647 0660 |
| G2X | 0347 0674 |
| GAF | 3897 4060 |
| GAP | 2162 2183 4777 4907 4984 5007 5012 5103 5310 |
| GCR | 5799 |
| GFA | 4030 4059 4083 4146 4158 4188 4218 4255 4502 4541 4780 4827  4860 4865 5025 5074 5171 5175 5180 5257 5321 5336 |
| GLG | 1866 1872 1882 1925 2078 2126 4379 4547 |
| GMI | 3019 3202 3407 5843 6005 |
| GMR | 2128 |
| GWI | 1077 1084 1089 1136 1147 1155 1170 1209 1277 2607 2628 2632  2813 2833 2976 3011 3128 3172 3193 3352 3358 3375 3500 3534  3839 3841 4166 4227 4256 4285 4998 5043 5457 5467 5535 5569  5941 5978 |
| GZQ | 1878 |
| HAY | 0716 0888 2745 |
| HDA | 0633 0756 0784 0930 0993 1024 5024 5030 5362 5429 |
| HKE | 4970 5260 5264 5266 5341 |
| HKJ | 4878 |
| HRM | 0666 |
| HVN | 2255 2261 2267 2303 2974 3005 3013 3022 3198 3315 3355 3600  3737 3862 3964 3966 4136 4213 4277 4311 4315 4669 4703 4737  4783 4826 4863 4945 4971 5164 5241 5247 5251 5275 5297 5306  5340 5385 5392 5418 5438 5456 5469 5495 5555 5699 5709 5916  5958 5994 |
| I2L | 0371 0816 2718 2922 3012 3834 |
| IAC | 1668 1718 2593 2624 2629 |
| IAW | 4044 4067 5115 5290 5464 |
| IBS | 1530 |
| IRA | 0530 0575 0857 2054 |
| IRM | 1202 |
| ISR | 4354 4413 |
| ISS | 0737 0749 1198 1823 1896 2102 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 9

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| IYE | 4653 4690 |
| JAS | 5478 |
| JAT | 3252 |
| JAV | 0029 2061 |
| JBU | 1123 1156 1173 1235 1240 1257 1270 1280 1302 1327 1398 1446  1452 1506 1528 1546 1557 1610 1650 1705 1739 1784 1785 1849  1861 1898 1904 1915 1917 1927 1948 2006 2020 2031 2042 2063  2075 2099 2125 2132 2136 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 2504 2520 2535 2577 2580  2640 2647 2671 2710 2725 2755 2781 2802 2814 2832 2848 2871  2880 2900 2945 2970 2977 2992 3029 3039 3072 3091 3119 3150  3190 3228 3263 3287 3348 3381 3416 3451 3479 3488 3517 3554  3572 3622 3659 3707 3724 3760 3800 3811 4578 4612 4647 4904  5060 5142 5148 5302 5312 5349 5417 5677 5723 5782 5783 5854  5865 5909 5960 6031 |
| JJP | 5093 5145 5161 5245 5274 5281 5355 5492 5499 5520 5598 5618  5649 5695 5701 5717 5732 5796 5877 5885 5940 |
| JSA | 2316 2356 2423 2453 2604 |
| JST | 1195 1408 2169 2185 2197 3474 3495 3547 3668 3743 3783 3899  3916 3917 3948 |
| KAC | 2046 3957 |
| KCA | 0407 |
| KFR | 2650 |
| KGL | 0663 0668 0787 0954 1060 1293 2029 2077 |
| KHO | 0354 0376 0414 |
| KHV | 2480 5343 5427 |
| KKK | 0604 0614 0675 0761 1438 1451 1503 1730 1950 1953 2747 2753 |
| KMF | 0480 |
| KNE | 2123 2776 3218 3238 3256 3361 3396 3425 3475 3787 3817 3868  3889 3894 3933 4055 4735 5716 |
| KZR | 1042 1204 2828 3141 3484 3519 3614 5357 5401 5404 5613 5734  5870 5968 6029 6037 |
| LAA | 4405 4450 4490 4526 5373 5405 5494 |
| LAN | 1304 1332 1351 1355 1491 1512 1526 1548 1568 1626 1854 1858  1877 1903 2089 2096 2295 2304 2321 2572 2585 2845 2858 2864  2872 2886 2887 2892 2894 3264 3280 3319 3330 3535 3556 3663  3671 3770 3772 3779 4383 4400 4439 4476 4509 4516 4543 4546  4549 4563 4576 4597 4598 4605 4657 4697 4758 4767 4815 4839  4871 4892 4896 4921 4943 4972 5005 5097 5125 5178 5213 5229  5234 5263 5316 5324 5364 5408 5443 5453 5483 5493 5548 5554  5583 5586 5686 5707 5764 5801 5818 5859 5879 5902 5929 5950  5965 5995 6026 6055 6065 |
| LAO | 5356 5396 |
| LBT | 0400 1121 1175 1597 1744 3480 4623 |
| LBY | 0558 0561 1727 2277 |
| LFO | 0659 |
| LJB | 3985 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 10

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| LLC | 0415 2987 |
| LLM | 2413 2419 2439 |
| LLP | 0739 1411 2016 |
| LMJ | 1868 |
| LMU | 0932 0943 0977 |
| LZB | 2540 2596 3028 3309 3564 3780 |
| MAC | 3809 3833 |
| MEA | 1956 1967 1977 2055 3736 3804 3837 4296 4339 4632 5000 5152  5162 5253 5746 |
| MJF | 4353 |
| MLD | 0741 |
| MLM | 2592 4199 4622 5538 |
| MLR | 2731 |
| MMA | 0973 1791 |
| MML | 1706 1750 |
| MON | 0389 0392 0983 1015 1421 1571 1637 1707 1763 1794 1941 2105  2234 2730 2793 5582 5606 6059 |
| MSR | 0680 0687 0715 0725 |
| NKS | 2433 2470 2473 2476 2485 2490 2560 2567 2590 2603 2622 2673  2679 2698 2704 2711 2723 2797 2893 2898 2929 2942 2963 2978  2983 3007 3017 3026 3165 3393 3395 4206 4264 4321 4431 4548  4592 4595 4902 4951 4996 5029 5042 5132 5159 5370 5387 5458  5517 5624 5672 5804 5861 5880 5954 5999 6082 |
| NLV | 2496 2502 |
| NLY | 2529 2668 2749 2867 2902 3504 3830 4231 4316 4368 4581 4594  4611 4648 5522 5648 5957 |
| NMA | 2676 |
| NMB | 3346 3586 |
| NVD | 0299 0409 0466 0528 1263 1778 |
| NVR | 2211 2216 2410 |
| NWS | 1219 1233 2649 2927 3120 |
| OAW | 1886 |
| OBS | 3758 |
| OHY | 0455 0471 0496 0543 0640 0661 0676 0792 0811 0835 0916 0963  1004 1008 1482 1509 2571 2688 |
| ONE | 3001 3030 3062 3214 3216 3371 3390 3438 3469 3509 3585 3602  3606 3635 3642 4222 4287 4336 4891 4913 4941 4942 5193 5278  5299 5754 5841 6050 6057 |
| ORF | 2566 4992 |
| OZW | 0429 1922 |
| PAL | 2878 2925 2954 3108 5081 5140 |
| PIC | 0990 2331 2340 |
| QAF | 0927 4114 4170 |
| QDA | 6061 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 11

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| QTR | 1487 1566 1648 1656 1773 1895 1928 1957 2097 2107 2121 2138  2161 2288 2341 3274 3369 3397 3636 3669 4110 4130 4173 4183  4382 4406 4436 4479 4496 4530 4615 4700 4754 4784 4802 4810  4858 4930 4968 5010 5078 5127 5182 5217 5255 5361 5395 |
| RAM | 2076 |
| RBA | 2023 2032 2135 2139 2195 3071 |
| RBG | 3152 |
| RFJ | 0814 |
| RJA | 2953 3428 3522 3685 3803 3832 4670 4817 4853 5099 5128 5177  5367 |
| RJD | 1618 5277 |
| RKM | 2158 3907 |
| RNV | 0229 |
| RYW | 3458 |
| RZO | 0795 2011 2390 3891 |
| S2A | 2366 2376 |
| SAA | 4990 5011 5637 5680 5956 6007 |
| SAI | 0542 0877 3089 3105 3270 |
| SBI | 1071 1078 1090 1091 1126 1129 1131 1149 1164 1167 1819 1870  2028 2064 2369 2373 2464 2474 2618 2623 2641 2726 3070 3446  3473 3490 3494 3866 3880 4032 4150 5001 5026 5031 5106 5134  5167 5559 5607 6066 |
| SDM | 0427 0525 0649 1130 1488 1560 1578 1654 1657 1679 1743 1761  1767 1851 1863 1876 1890 2465 2497 2879 2913 2930 2964 3044 |
| SFJ | 2620 2658 2695 3025 4555 4720 5102 5393 5512 5652 5773 5862  5931 |
| SFW | 0671 |
| SGG | 0799 0879 1390 |
| SGL | 0357 |
| SGX | 1605 |
| SHU | 2222 |
| SKU | 0179 0406 0447 1400 1523 |
| SND | 1880 |
| SNX | 0289 |
| SOL | 0302 |
| SRQ | 3757 3801 |
| SUD | 3040 |
| SVA | 4015 4057 4081 4090 4092 4104 4115 4122 4135 4273 4314 4337  4349 4357 4364 4376 4391 4392 4393 4394 4397 4408 4414 4419  4432 4442 4454 4467 4484 4501 4517 4519 4542 4564 4577 4590  4811 4823 4838 4925 4955 4962 5009 5065 5223 5285 5314 5447  5509 5549 |
| SVR | 0203 0735 0775 0815 0841 0991 1152 1199 1720 1751 1884 1901  1905 2117 2166 2175 2187 2278 2327 2349 2707 3107 |
| SVW | 2921 3133 3542 3856 5445 |
| SWM | 0430 0476 |
| SWR | 1762 1951 2134 4534 4618 4673 5037 5069 5518 5567 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 12

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| TAE | 0657 0934 0946 0949 1339 1368 1934 2084 2659 |
| TAI | 1066 1334 1598 1625 1952 2282 2301 2339 2434 2444 2553 2610  2687 2862 2917 3042 3057 3103 3113 3248 3276 3378 3418 3510  3538 3577 3581 3869 4906 4944 5068 5219 5238 5280 5333 5406  5840 5936 5944 6002 6068 6099 |
| TAK | 2700 2763 3171 3331 |
| TAM | 0334 0440 0976 1010 1092 1096 1103 1139 1143 1158 1215 1246  1251 1376 1459 1486 1518 1575 1580 1591 1593 1595 1608 1613  1628 1652 1663 1672 1692 1703 1717 1757 1771 1775 1801 1802  1804 1818 1825 1826 1827 1831 1832 1835 1837 1855 1857 1888  1891 2014 2044 2372 2393 2467 2513 2661 2734 2737 2784 2838  2859 2896 2904 2924 3002 3032 3035 3047 3058 3111 3156 3180  3211 3222 3229 3240 3266 3278 3284 3294 3313 3325 3391 3540  3565 3588 3594 3595 3630 3658 3662 3710 3727 3733 3750 3761  3816 3908 3972 4000 4163 4171 4192 4320 4352 4358 4389 4441  4446 4465 4544 4570 4662 4734 4756 4773 4953 4974 5066 5101  5107 5109 5184 5209 5222 5240 5342 5345 5528 5591 5621 5643  5654 5666 5748 5749 5752 5845 5883 5947 5987 6097 |
| TAP | 1667 1756 1765 2178 3769 3883 4021 4095 4106 4145 |
| TBZ | 0361 0362 0405 |
| TCW | 0653 1787 1929 1975 2362 |
| TCX | 1238 1250 1942 1961 1965 2060 2114 |
| THY | 1856 1909 1996 2156 2164 2395 2401 2404 2414 2452 2522 2602  2609 2626 2631 2655 2738 2739 2823 2868 2928 2934 2941 2984  2999 3010 3015 3126 3142 3185 3207 3208 3239 3257 3283 3303  3341 3350 3405 3429 3525 3539 3558 3567 3603 3654 3718 3719  3896 3931 3949 4629 4643 4654 4665 4682 4695 4698 4706 4755  4761 4774 4779 4788 4790 5077 5083 5118 5154 5205 5254 5388  5450 5465 5490 5546 5584 5633 5663 5667 5689 |
| TJS | 4169 |
| TNA | 5055 6009 |
| TVS | 4699 |
| UAE | 4822 |
| 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 |
| UEA | 2654 2696 2762 2774 2820 2835 3024 3706 4347 5003 5252 |
| UKN | 3260 |
| ULG | 0308 0314 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 13

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| UNA | 3886 4732 |
| USA | 0052 0053 0054 0055 0064 0065 0066 0067 0076 0077 0081 0082  0099 0317 0448 0565 0584 0762 0770 0803 0844 0856 0861 0863  0866 0868 0885 0889 0890 0896 0904 0922 0924 0929 0931 0953  0972 0997 1003 1019 1033 1038 1040 1043 1046 1049 1050 1051  1052 1055 1056 1061 1064 1065 1069 1075 1079 1083 1088 1095  1097 1109 1110 1111 1112 1114 1116 1122 1134 1135 1141 1148  1166 1178 1182 1196 1203 1205 1223 1224 1234 1245 1254 1264  1265 1268 1269 1274 1275 1281 1284 1287 1289 1294 1297 1298  1301 1310 1311 1313 1314 1315 1317 1319 1323 1326 1328 1331  1340 1342 1348 1350 1354 1358 1360 1369 1371 1373 1375 1378  1382 1389 1391 1393 1395 1397 1403 1406 1410 1412 1417 1419  1425 1431 1436 1442 1447 1455 1462 1463 1465 1472 1481 1490  1492 1496 1499 1517 1519 1521 1525 1527 1531 1534 1536 1539  1547 1552 1563 1565 1576 1621 1643 1644 1651 1666 1701 1704  1710 1724 1764 1792 1844 1935 2193 2302 2312 2405 2422 2430  2458 2482 2570 2595 2613 2615 2630 2669 2690 3584 3629 3633  3712 3740 3796 3858 3879 3881 3924 3928 3944 3960 3977 3989  3993 4025 4041 4050 4082 4086 4107 4123 4134 4149 4202 4242  4843 4847 4850 4885 4893 4898 4932 4935 4940 4957 4960 4966  5235 5244 5269 5282 5292 5300 5317 5332 5368 5374 5409 5422  5444 5475 5504 5513 5588 5594 5644 5659 5684 5696 5728 5751  5763 5795 5800 5899 5939 5980 6027 6035 6100 |
| UTA | 5681 5733 5779 5919 5966 6016 6067 |
| VAR | 2383 |
| VIM | 2732 3125 4270 4305 5158 |
| VIP | 4151 |
| VJC | 2712 3739 3791 4049 4475 4512 |
| VKG | 1881 1887 1889 1921 1932 1954 1960 1972 |
| VLG | 1171 1210 1372 1540 1749 1862 2168 2207 2388 2407 2678 2761  2785 2794 2798 2962 2988 3083 3095 3293 3321 3529 3700 3704  3995 4128 4661 4681 4742 4849 4855 4937 5479 5530 5533 5587  5599 5612 5616 5620 5673 5925 6039 6045 6079 6081 |
| VLK | 0422 0714 0730 1213 |
| VNL | 5844 |
| VOI | 2204 2296 2657 2666 2771 2780 2979 2997 3045 3069 3077 3175  3253 3279 3317 3450 3463 3491 3590 3624 3672 3705 4403 4422  4741 4798 4828 4832 4950 5062 5207 5212 5308 5322 5337 5391  5488 5510 5595 5651 5776 5793 5819 5988 5996 6014 |
| VRD | 2616 2674 2740 2773 2778 2800 2811 2830 2851 2993 3016 3037  3101 3135 3155 3181 3204 3230 3324 3347 3349 3359 3398 3417  3445 3460 3465 3503 3656 3670 3684 3686 4448 4480 4558 4559  4610 4616 4655 4805 4814 4851 4867 4894 4948 4959 4991 4999  5004 5034 5058 5179 5515 |
| VRE | 1429 |
| VVC | 1564 1725 1867 |
| WGT | 1212 |
| WHT | 2440 |
| WOW | 2457 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 14

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| WRC | 0235 0579 0645 0684 0760 0781 |
| WTJ | 0548 |
| WZZ | 1834 1892 1902 2752 |
| XLF | 0343 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 15

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

(4) Configuration by MSN

|  |  |
| --- | --- |
| **MSN** | **CONFIGURATION** |
| 0029 0052 0053 0054 0055 0059 0064 0065 0066 0067 0068  0073 0076 0077 0081 0082 0084 0085 0099 0118 0121 0122  0125 0126 0127 0141 0149 0150 0152 0153 0154 0159 0160  0164 0168 0171 0174 0175 0179 0183 0189 0190 0192 0197  0203 0206 0208 0210 0213 0220 0229 0230 0231 0232 0233  0234 0235 0242 0243 0248 0249 0250 0251 0253 0254 0255  0262 0263 0265 0272 0273 0277 0279 0281 0282 0284 0289  0290 0291 0292 0294 0297 0298 0299 0301 0302 0306 0307  0308 0309 0311 0314 0317 0318 0319 0324 0329 0330 0331  0332 0333 0334 0335 0339 0340 0341 0342 0343 0347 0349  0350 0354 0355 0357 0358 0359 0360 0361 0362 0367 0371  0372 0373 0376 0378 0380 0381 0384 0386 0387 0388 0389  0391 0392 0393 0395 0399 0400 0403 0404 0405 0406 0407  0408 0409 0410 0414 0415 0417 0418 0420 0422 0424 0426  0427 0428 0429 0430 0435 0436 0439 0440 0441 0442 0444  0447 0448 0449 0450 0452 0454 0455 0456 0457 0460 0461  0462 0463 0464 0465 0466 0470 0471 0472 0475 0476 0479  0480 0483 0485 0487 0489 0491 0496 0497 0500 0503 0504  0506 0508 0510 0512 0523 0525 0527 0528 0530 0539 0540  0542 0543 0546 0548 0550 0551 0556 0557 0558 0561 0565  0568 0571 0572 0573 0575 0579 0580 0582 0584 0587 0588  0589 0591 0592 0597 0604 0613 0614 0620 0630 0631 0633  0634 0638 0639 0640 0644 0645 0647 0649 0653 0655 0656  0657 0659 0660 0661 0663 0666 0667 0668 0670 0671 0672  0674 0675 0676 0678 0680 0682 0683 0684 0686 0687 0688  0690 0691 0693 0695 0697 0702 0707 0711 0714 0715 0716  0719 0721 0724 0725 0726 0728 0730 0732 0733 0735 0736  0737 0739 0740 0741 0742 0743 0747 0748 0749 0751 0752  0756 0757 0758 0759 0760 0761 0762 0764 0766 0769 0770  0772 0773 0775 0778 0779 0780 0781 0783 0784 0785 0786  0787 0788 0792 0795 0798 0799 0800 0801 0802 0803 0804  0805 0807 0808 0811 0813 0814 0815 0816 0817 0818 0820  0823 0824 0825 0826 0828 0829 0830 0831 0832 0834 0835  0836 0839 0840 0841 0842 0843 0844 0845 0846 0847 0850  0851 0856 0857 0858 0861 0862 0863 0865 0866 0867 0868  0871 0873 0874 0877 0878 0879 0882 0883 0885 0888 0889  0890 0892 0893 0896 0898 0902 0903 0904 0907 0908 0911  0912 0913 0914 0915 0916 0919 0922 0923 0924 0925 0927  0928 0929 0930 0931 0932 0934 0936 0941 0943 0944 0946  0948 0949 0952 0953 0954 0955 0961 0962 0963 0964 0965  0972 0973 0976 0977 0978 0980 0981 0983 0988 0989 0990  0991 0993 0996 0997 1001 1003 1004 1005 1006 1007 1008  1010 1011 1013 1015 1017 1019 1022 1024 1031 1033 1037  1038 1040 1042 1043 1046 1049 1050 1051 1052 1053 1055  1056 1058 1060 1061 1062 1064 1065 1066 1069 1071 1072  1073 1075 1077 1078 1079 1083 1084 1088 1089 1090 1091  1092 1093 1095 1096 1097 1103 1104 1105 1107 1108 1109  1110 1111 1112 1114 1116 1121 1122 1123 1126 1128 1129  1130 1131 1134 1135 1136 1139 1140 1141 1143 1146 1147 | 001 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 16

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **MSN** | **CONFIGURATION** |
| 1148 1149 1152 1155 1156 1158 1159 1163 1164 1166 1167  1170 1171 1173 1174 1175 1178 1182 1184 1185 1191 1192  1194 1195 1196 1198 1199 1202 1203 1204 1205 1209 1210  1211 1212 1213 1215 1219 1223 1224 1227 1229 1230 1233  1234 1235 1238 1240 1241 1243 1245 1246 1248 1249 1250  1251 1254 1255 1257 1262 1263 1264 1265 1266 1268 1269  1270 1272 1274 1275 1277 1280 1281 1282 1284 1285 1286  1287 1288 1289 1290 1291 1292 1293 1294 1297 1298 1300  1301 1302 1303 1304 1309 1310 1311 1313 1314 1315 1317  1318 1319 1321 1323 1324 1325 1326 1327 1328 1331 1332  1334 1339 1340 1341 1342 1343 1346 1347 1348 1350 1351  1352 1353 1354 1355 1356 1358 1359 1360 1363 1364 1368  1369 1371 1372 1373 1375 1376 1377 1378 1382 1385 1386  1389 1390 1391 1392 1393 1395 1397 1398 1400 1401 1403  1405 1406 1408 1409 1410 1411 1412 1414 1417 1419 1420  1421 1425 1426 1427 1429 1431 1432 1434 1435 1436 1438  1441 1442 1446 1447 1451 1452 1453 1455 1456 1459 1460  1462 1463 1465 1468 1469 1470 1472 1474 1475 1477 1481  1482 1483 1486 1487 1488 1490 1491 1492 1493 1494 1495  1496 1498 1499 1500 1501 1503 1504 1506 1507 1508 1509  1512 1514 1515 1517 1518 1519 1520 1521 1522 1523 1525  1526 1527 1528 1530 1531 1533 1534 1535 1536 1538 1539  1540 1541 1543 1544 1545 1546 1547 1548 1549 1551 1552  1553 1555 1557 1559 1560 1562 1563 1564 1565 1566 1567  1568 1569 1570 1571 1573 1575 1576 1577 1578 1579 1580  1581 1582 1583 1584 1585 1586 1588 1591 1593 1595 1596  1597 1598 1599 1600 1601 1602 1603 1605 1607 1608 1609  1610 1611 1612 1613 1614 1615 1617 1618 1620 1621 1623  1624 1625 1626 1627 1628 1629 1630 1632 1633 1634 1635  1636 1637 1638 1641 1643 1644 1646 1647 1648 1649 1650  1651 1652 1653 1654 1656 1657 1659 1662 1663 1664 1666  1667 1668 1669 1670 1671 1672 1673 1676 1678 1679 1680  1683 1684 1685 1686 1688 1692 1693 1701 1702 1703 1704  1705 1706 1707 1709 1710 1712 1714 1717 1718 1719 1720  1724 1725 1726 1727 1728 1730 1731 1734 1735 1737 1738  1739 1741 1742 1743 1744 1746 1747 1748 1749 1750 1751  1752 1755 1756 1757 1758 1759 1761 1762 1763 1764 1765  1766 1767 1769 1771 1772 1773 1774 1775 1776 1778 1780  1781 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792  1794 1796 1797 1800 1801 1802 1803 1804 1805 1806 1808  1810 1811 1812 1815 1818 1819 1820 1821 1823 1824 1825  1826 1827 1828 1831 1832 1833 1834 1835 1837 1838 1839  1840 1841 1842 1844 1845 1846 1847 1849 1850 1851 1852  1853 1854 1855 1856 1857 1858 1860 1861 1862 1863 1864  1865 1866 1867 1868 1870 1872 1874 1875 1876 1877 1878  1880 1881 1882 1884 1886 1887 1888 1889 1890 1891 1892  1893 1895 1896 1897 1898 1901 1902 1903 1904 1905 1909  1912 1913 1915 1916 1917 1920 1921 1922 1923 1924 1925  1926 1927 1928 1929 1931 1932 1934 1935 1937 1940 1941  1942 1943 1944 1945 1947 1948 1949 1950 1951 1952 1953  1954 1955 1956 1957 1959 1960 1961 1962 1963 1965 1966 | 001 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 17

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **MSN** | **CONFIGURATION** |
| 1967 1968 1970 1971 1972 1973 1974 1975 1976 1977 1978  1980 1982 1983 1986 1988 1989 1990 1994 1995 1996 1997  2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010  2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2023  2024 2026 2028 2029 2030 2031 2032 2039 2041 2042 2044  2045 2046 2047 2048 2052 2054 2055 2060 2061 2063 2064  2065 2066 2067 2069 2072 2075 2076 2077 2078 2080 2082  2084 2087 2089 2091 2092 2093 2095 2096 2097 2099 2102  2103 2105 2106 2107 2108 2110 2113 2114 2116 2117 2118  2121 2122 2123 2124 2125 2126 2128 2132 2133 2134 2135  2136 2138 2139 2141 2142 2144 2145 2146 2147 2149 2150  2151 2152 2154 2156 2158 2159 2160 2161 2162 2163 2164  2165 2166 2167 2168 2169 2171 2172 2175 2177 2178 2179  2182 2183 2185 2186 2187 2189 2190 2191 2193 2195 2197  2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208  2209 2211 2215 2216 2217 2222 2224 2226 2227 2231 2232  2233 2234 2236 2237 2240 2241 2243 2246 2247 2253 2254  2255 2258 2259 2260 2261 2263 2265 2266 2267 2269 2271  2273 2275 2277 2278 2280 2282 2284 2285 2286 2287 2288  2290 2291 2293 2295 2296 2298 2301 2302 2303 2304 2307  2310 2312 2314 2316 2318 2319 2321 2325 2327 2328 2330  2331 2332 2333 2334 2335 2336 2337 2339 2340 2341 2342  2343 2345 2349 2352 2354 2356 2358 2359 2361 2362 2366  2367 2368 2369 2371 2372 2373 2374 2376 2377 2382 2383  2384 2386 2387 2388 2390 2392 2393 2394 2395 2396 2397  2398 2399 2400 2401 2404 2405 2406 2407 2408 2409 2410  2413 2414 2415 2417 2419 2420 2421 2422 2423 2425 2426  2427 2430 2431 2432 2433 2434 2435 2439 2440 2441 2443  2444 2445 2447 2448 2449 2450 2452 2453 2454 2457 2458  2459 2461 2464 2465 2467 2468 2470 2473 2474 2476 2480  2482 2483 2484 2485 2487 2489 2490 2491 2496 2497 2499  2502 2504 2505 2506 2508 2509 2511 2513 2516 2518 2520  2521 2522 2523 2525 2529 2530 2532 2535 2539 2540 2542  2544 2545 2551 2552 2553 2559 2560 2566 2567 2570 2571  2572 2574 2575 2577 2579 2580 2583 2585 2588 2590 2592  2593 2595 2596 2598 2602 2603 2604 2607 2609 2610 2613  2614 2615 2616 2618 2619 2620 2622 2623 2624 2626 2628  2629 2630 2631 2632 2635 2637 2640 2641 2643 2645 2647  2648 2649 2650 2653 2654 2655 2657 2658 2659 2660 2661  2662 2665 2666 2667 2668 2669 2671 2673 2674 2676 2678  2679 2680 2685 2687 2688 2689 2690 2692 2694 2695 2696  2697 2698 2700 2701 2704 2707 2708 2710 2711 2712 2713  2714 2718 2719 2720 2723 2725 2726 2730 2731 2732 2734  2737 2738 2739 2740 2741 2743 2745 2747 2748 2749 2751  2752 2753 2755 2758 2759 2761 2762 2763 2764 2767 2768  2770 2771 2772 2773 2774 2776 2778 2780 2781 2783 2784  2785 2786 2788 2789 2790 2791 2793 2794 2796 2797 2798  2799 2800 2801 2802 2804 2805 2806 2808 2809 2810 2811  2813 2814 2815 2819 2820 2821 2823 2824 2828 2830 2831  2832 2833 2834 2835 2836 2837 2838 2839 2840 2845 2846  2847 2848 2849 2851 2852 2853 2855 2857 2858 2859 2861 | 001 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 18

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **MSN** | **CONFIGURATION** |
| 2862 2864 2865 2867 2868 2871 2872 2874 2876 2877 2878  2879 2880 2886 2887 2890 2891 2892 2893 2894 2896 2898  2899 2900 2901 2902 2904 2905 2910 2913 2915 2917 2921  2922 2924 2925 2927 2928 2929 2930 2934 2935 2936 2939  2940 2941 2942 2943 2945 2948 2949 2950 2953 2954 2960  2962 2963 2964 2968 2969 2970 2971 2974 2975 2976 2977  2978 2979 2981 2983 2984 2985 2986 2987 2988 2991 2992  2993 2994 2997 2999 3001 3002 3005 3006 3007 3010 3011  3012 3013 3014 3015 3016 3017 3019 3020 3021 3022 3023  3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3035  3037 3039 3040 3042 3043 3044 3045 3046 3047 3048 3049  3055 3056 3057 3058 3060 3062 3066 3067 3068 3069 3070  3071 3072 3074 3075 3077 3083 3084 3085 3089 3091 3093  3094 3095 3097 3101 3103 3105 3107 3108 3111 3112 3113  3114 3116 3119 3120 3121 3123 3124 3125 3126 3128 3129  3131 3133 3135 3136 3138 3139 3141 3142 3144 3150 3152  3153 3155 3156 3158 3161 3164 3165 3167 3171 3172 3175  3180 3181 3185 3188 3190 3193 3195 3196 3198 3199 3200  3202 3204 3205 3207 3208 3210 3211 3214 3215 3216 3217  3218 3221 3222 3226 3228 3229 3230 3234 3238 3239 3240  3241 3242 3243 3244 3245 3246 3248 3250 3251 3252 3253  3256 3257 3258 3260 3263 3264 3266 3268 3269 3270 3272  3274 3276 3278 3279 3280 3283 3284 3285 3287 3289 3293  3294 3297 3303 3304 3309 3311 3313 3315 3317 3318 3319  3321 3324 3325 3330 3331 3337 3341 3342 3345 3346 3347  3348 3349 3350 3352 3355 3356 3358 3359 3361 3363 3365  3366 3368 3369 3371 3374 3375 3378 3381 3385 3386 3388  3389 3390 3391 3392 3393 3395 3396 3397 3398 3405 3406  3407 3408 3415 3416 3417 3418 3421 3422 3423 3424 3425  3428 3429 3431 3433 3436 3437 3438 3439 3440 3444 3445  3446 3447 3449 3450 3451 3452 3454 3456 3458 3459 3460  3461 3462 3463 3465 3467 3469 3472 3473 3474 3475 3476  3478 3479 3480 3483 3484 3485 3487 3488 3490 3491 3492  3493 3494 3495 3496 3500 3501 3503 3504 3506 3507 3508  3509 3510 3512 3514 3516 3517 3518 3519 3522 3525 3526  3527 3529 3534 3535 3538 3539 3540 3542 3547 3552 3554  3556 3558 3564 3565 3566 3567 3572 3577 3581 3583 3584  3585 3586 3587 3588 3590 3591 3594 3595 3596 3599 3600  3601 3602 3603 3604 3605 3606 3614 3617 3622 3624 3626  3629 3630 3633 3635 3636 3641 3642 3645 3646 3647 3654  3656 3658 3659 3660 3661 3662 3663 3664 3667 3668 3669  3670 3671 3672 3680 3681 3684 3685 3686 3689 3690 3691  3693 3694 3700 3704 3705 3706 3707 3708 3709 3710 3712  3713 3714 3718 3719 3724 3727 3728 3730 3733 3736 3737  3739 3740 3743 3745 3747 3749 3750 3751 3753 3757 3758  3759 3760 3761 3762 3764 3767 3769 3770 3772 3773 3779  3780 3783 3784 3785 3787 3790 3791 3796 3800 3801 3802  3803 3804 3809 3811 3816 3817 3819 3820 3826 3828 3829  3830 3832 3833 3834 3836 3837 3839 3840 3841 3847 3850  3852 3856 3857 3858 3860 3861 3862 3865 3866 3867 3868  3869 3873 3876 3878 3879 3880 3881 3883 3886 3889 3890 | 001 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 19

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **MSN** | **CONFIGURATION** |
| 3891 3892 3893 3894 3896 3897 3899 3901 3902 3903 3905  3907 3908 3910 3911 3916 3917 3920 3924 3925 3926 3928  3931 3932 3933 3934 3938 3941 3944 3945 3948 3949 3951  3957 3959 3960 3961 3962 3964 3966 3967 3969 3972 3977  3980 3981 3983 3984 3985 3988 3989 3990 3992 3993 3995  3996 3999 4000 4001 4003 4011 4013 4015 4017 4018 4021  4025 4026 4030 4032 4033 4036 4038 4041 4042 4044 4045  4046 4049 4050 4051 4055 4057 4059 4060 4061 4064 4065  4066 4067 4068 4071 4072 4077 4081 4082 4083 4086 4090  4092 4093 4094 4095 4100 4101 4102 4104 4106 4107 4110  4112 4114 4115 4122 4123 4124 4127 4128 4130 4134 4135  4136 4140 4142 4145 4146 4149 4150 4151 4154 4158 4161  4163 4165 4166 4167 4168 4169 4170 4171 4172 4173 4175  4183 4184 4187 4188 4189 4192 4194 4197 4198 4199 4200  4202 4204 4205 4206 4207 4209 4211 4213 4217 4218 4222  4224 4225 4227 4228 4230 4231 4232 4235 4242 4243 4244  4248 4252 4253 4254 4255 4256 4258 4260 4264 4266 4269  4270 4271 4272 4273 4274 4275 4276 4277 4279 4281 4282  4284 4285 4287 4288 4290 4291 4292 4294 4296 4299 4301  4304 4305 4307 4310 4311 4314 4315 4316 4319 4320 4321  4322 4325 4326 4329 4331 4334 4336 4337 4338 4339 4341  4345 4347 4349 4350 4352 4353 4354 4357 4358 4362 4364  4365 4366 4368 4369 4370 4373 4374 4375 4376 4378 4379  4381 4382 4383 4387 4388 4389 4391 4392 4393 4394 4396  4397 4400 4401 4403 4405 4406 4408 4411 4412 4413 4414  4416 4419 4420 4422 4424 4428 4429 4430 4431 4432 4433  4436 4439 4440 4441 4442 4446 4448 4450 4454 4456 4463  4465 4467 4470 4471 4475 4476 4478 4479 4480 4482 4483  4484 4487 4490 4496 4499 4501 4502 4503 4505 4507 4509  4510 4512 4513 4516 4517 4519 4525 4526 4530 4534 4540  4541 4542 4543 4544 4546 4547 4548 4549 4550 4555 4558  4559 4562 4563 4564 4565 4567 4569 4570 4572 4573 4575  4576 4577 4578 4580 4581 4586 4587 4589 4590 4592 4594  4595 4597 4598 4599 4600 4602 4605 4606 4610 4611 4612  4613 4615 4616 4618 4619 4622 4623 4627 4629 4631 4632  4634 4638 4641 4642 4643 4644 4647 4648 4650 4652 4653  4654 4655 4657 4658 4659 4660 4661 4662 4665 4668 4669  4670 4671 4673 4674 4675 4677 4678 4681 4682 4685 4686  4687 4688 4690 4694 4695 4696 4697 4698 4699 4700 4702  4703 4704 4706 4707 4709 4711 4713 4715 4718 4720 4722  4723 4727 4728 4729 4730 4731 4732 4733 4734 4735 4737  4738 4739 4741 4742 4743 4745 4746 4748 4750 4751 4754  4755 4756 4758 4760 4761 4763 4765 4767 4768 4769 4773  4774 4776 4777 4779 4780 4782 4783 4784 4788 4789 4790  4794 4798 4799 4802 4805 4808 4809 4810 4811 4814 4815  4816 4817 4821 4822 4823 4824 4825 4826 4827 4828 4830  4831 4832 4833 4836 4838 4839 4840 4842 4843 4844 4847  4849 4850 4851 4853 4854 4855 4856 4857 4858 4860 4861  4862 4863 4864 4865 4867 4869 4870 4871 4877 4878 4880  4883 4884 4885 4886 4887 4891 4892 4893 4894 4896 4898  4902 4903 4904 4905 4906 4907 4909 4911 4912 4913 4915 | 001 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 20

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **MSN** | **CONFIGURATION** |
| 4917 4919 4921 4923 4924 4925 4926 4928 4930 4932 4933  4934 4935 4936 4937 4938 4939 4940 4941 4942 4943 4944  4945 4946 4948 4950 4951 4953 4955 4957 4959 4960 4961  4962 4964 4966 4967 4968 4970 4971 4972 4974 4978 4981  4982 4983 4984 4987 4988 4990 4991 4992 4996 4998 4999  5000 5001 5003 5004 5005 5006 5007 5008 5009 5010 5011  5012 5013 5015 5022 5023 5024 5025 5026 5029 5030 5031  5034 5035 5037 5038 5040 5041 5042 5043 5047 5048 5051  5053 5055 5057 5058 5060 5061 5062 5063 5065 5066 5068  5069 5070 5071 5072 5074 5077 5078 5081 5083 5086 5088  5093 5095 5096 5097 5099 5100 5101 5102 5103 5106 5107  5108 5109 5114 5115 5117 5118 5119 5121 5125 5126 5127  5128 5131 5132 5133 5134 5135 5136 5140 5141 5142 5144  5145 5147 5148 5151 5152 5153 5154 5156 5158 5159 5160  5161 5162 5163 5164 5166 5167 5168 5169 5170 5171 5172  5173 5175 5177 5178 5179 5180 5182 5183 5184 5185 5189  5191 5192 5193 5195 5197 5200 5202 5205 5207 5208 5209  5210 5212 5213 5214 5216 5217 5219 5220 5221 5222 5223  5225 5226 5227 5229 5233 5234 5235 5237 5238 5240 5241  5242 5243 5244 5245 5246 5247 5251 5252 5253 5254 5255  5257 5260 5263 5264 5266 5267 5268 5269 5273 5274 5275  5277 5278 5279 5280 5281 5282 5285 5286 5287 5288 5290  5292 5297 5299 5300 5302 5303 5304 5306 5308 5309 5310  5312 5314 5316 5317 5321 5322 5324 5325 5326 5327 5328  5329 5330 5331 5332 5333 5336 5337 5338 5339 5340 5341  5342 5343 5345 5348 5349 5350 5351 5354 5355 5356 5357  5358 5360 5361 5362 5363 5364 5367 5368 5370 5372 5373  5374 5376 5377 5378 5379 5380 5382 5384 5385 5387 5388  5389 5391 5392 5393 5394 5395 5396 5398 5399 5401 5402  5403 5404 5405 5406 5407 5408 5409 5410 5412 5415 5416  5417 5418 5422 5427 5429 5431 5434 5438 5439 5440 5443  5444 5445 5446 5447 5450 5453 5454 5455 5456 5457 5458  5459 5461 5462 5464 5465 5466 5467 5469 5470 5471 5475  5477 5478 5479 5480 5481 5483 5484 5485 5488 5490 5491  5492 5493 5494 5495 5499 5500 5503 5504 5505 5506 5508  5509 5510 5511 5512 5513 5514 5515 5516 5517 5518 5519  5520 5522 5523 5524 5527 5528 5530 5533 5534 5535 5538  5540 5541 5543 5544 5545 5546 5547 5548 5549 5551 5554  5555 5556 5558 5559 5560 5561 5562 5564 5567 5569 5571  5574 5575 5579 5582 5583 5584 5586 5587 5588 5591 5594  5595 5597 5598 5599 5602 5606 5607 5609 5611 5612 5613  5616 5618 5620 5621 5622 5623 5624 5626 5628 5630 5632  5633 5636 5637 5640 5642 5643 5644 5645 5646 5647 5648  5649 5650 5651 5652 5653 5654 5655 5656 5657 5659 5661  5663 5665 5666 5667 5668 5670 5671 5672 5673 5674 5677  5678 5679 5680 5681 5684 5686 5689 5691 5693 5695 5696  5698 5699 5700 5701 5704 5705 5707 5709 5710 5711 5713  5714 5716 5717 5720 5722 5723 5724 5726 5728 5730 5732  5733 5734 5735 5736 5737 5740 5741 5745 5746 5748 5749  5750 5751 5752 5753 5754 5755 5756 5758 5759 5760 5761  5763 5764 5765 5767 5768 5769 5770 5773 5774 5776 5777 | 001 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 21

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |
| --- | --- |
| **MSN** | **CONFIGURATION** |
| 5778 5779 5781 5782 5783 5786 5788 5789 5790 5791 5793  5795 5796 5797 5798 5799 5800 5801 5803 5804 5808 5810  5816 5817 5818 5819 5821 5823 5826 5827 5830 5831 5832  5834 5836 5837 5840 5841 5842 5843 5844 5845 5848 5849  5852 5854 5859 5860 5861 5862 5864 5865 5867 5868 5870  5873 5874 5875 5876 5877 5878 5879 5880 5881 5882 5883  5884 5885 5886 5887 5890 5895 5896 5899 5901 5902 5904  5907 5909 5910 5911 5912 5913 5916 5919 5920 5921 5922  5924 5925 5926 5929 5930 5931 5932 5933 5935 5936 5937  5938 5939 5940 5941 5942 5944 5945 5946 5947 5949 5950  5953 5954 5955 5956 5957 5958 5960 5961 5963 5964 5965  5966 5967 5968 5969 5970 5972 5973 5974 5975 5976 5977  5978 5980 5982 5983 5987 5988 5989 5991 5994 5995 5996  5997 5998 5999 6002 6003 6004 6005 6006 6007 6008 6009  6012 6014 6016 6017 6018 6020 6022 6024 6026 6027 6029  6030 6031 6033 6035 6037 6039 6040 6041 6042 6043 6044  6045 6046 6049 6050 6052 6053 6055 6057 6059 6060 6061  6062 6063 6065 6066 6067 6068 6069 6070 6071 6073 6078  6079 6081 6082 6083 6085 6087 6089 6090 6092 6094 6097  6099 6100 | 001 |

(5) Configuration definition

\*\*CONF 001

Config. 001 is valid for all the aircraft given in the effectivity of this Service Bulletin as a standard configuration.

(6) Material Effectivity

|  |  |  |
| --- | --- | --- |
| MATERIAL | QTY PER A/C | SEE NOTES |
| Kit 211214D01R01 | 1 |  |

**B.** **CONCURRENT** **REQUIREMENTS**

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of the following Service Bulletins as per effectivity specified in these Service Bulletins:

Service Bulletin No.

A320-21-1031

A320-21-1119

A320-21-1183

A320-21-1205

A320-21-1212

NOTE:

NOTE:

NOTE:

Service Bulletin No. A320-21-1031 (AIR CONDITIONING - AIR COOLING - INSTALL OZONE CONVERTERS) which applies Modification No. 21215K1234

Service Bulletin No. A320-21-1119 (AIR CONDITIONING - AIR COOLING - INSTALL OZONE CONVERTER ENGELHARD PN 20499003 OR PN

20499004) which applies Modification No. 21215K1234

Service Bulletin No. A320-21-1183 (AIR CONDITIONING - AIR COOLING

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 22

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

- INSTALL OZONE CONVERTER ENGELHARD PN 20499005 OR PN

20499006) which applies Modification No. 21215K1234

NOTE:

NOTE:

**C.** **REASON**

Service Bulletin No. A320-21-1205 (AIR CONDITIONING - AIR COOLING - INSTALL VOC/OZONE CATALYTIC CONVERTER FOR A/C WITH A318- TYPE ECS) which applies Modification No. 21215K1234

Service Bulletin No. A320-21-1212 (AIR CONDITIONING - AIR COOLING - INSTALL VOC/OZONE CATALYTIC CONVERTER FOR A/C WITHOUT A318-TYPE ECS) which applies Modification No. 21215K1234

(1) History

Some operators have reported air leaks in the LH and RH wing areas during ground temperature conditions of over 45 degrees Celsius. High temperatures have been detected at the top of the air conditioning packs in the pack bay areas (Zone 191 and Zone 192). The cause of the air leaks is high temperatures in the air conditioning pack bay areas.

(2) Objective/Action

This Service Bulletin is issued to detail instructions for the addition of an insulation cover around the ozone converters, 100HM and 101HM, located in the LH and RH air conditioning pack bay areas.

(3) Advantages

Accomplishment of this Service Bulletin will ensure that the ozone converters are insulated from high external ground temperatures. Thus the risk of air leaks in the air conditioning pack bay areas due to high temperatures will decrease.

(4) Operational/Maintenance Consequences

None

**D.** **DESCRIPTION**

To accomplish this Service Bulletin it is necessary to :

Task 211214-831-848-001: Modification

(1) Disconnect the Tie-Rod from the Ozone Converter 100HM

(2) Disconnect the Tie-Rod from the Ozone Converter 101HM

(3) Install the Insulation Cover on the Ozone Converter 100HM and 101HM

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 23

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

**E.** **COMPLIANCE**

(1) Classification

RECOMMENDED: Service Bulletin recommended to be accomplished to prevent significant operational disruptions.

(2) Accomplishment Timescale

If the occurrence described above has been experienced, it should be considered to accomplish this Service Bulletin at your convenience.

**F.** **APPROVAL**

The technical content of this document is approved under the authority of Design Organization 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 operator’s circumstances. The estimates do not include the time to prepare, plan or inspect the work. Manufacture and procurement of parts and tools, drying times for paints, sealants, etc., and general administration work are also not included.

|  |  |
| --- | --- |
| Task 211214-831-848-001: Modification | |
| Get Access | 1.00 |
| **On** **Aircraft** |  |
| Disconnect the Tie-Rod from the Ozone Converter 100HM | 0.50 |
| Disconnect the Tie-Rod from the Ozone Converter 101HM | 0.50 |
| Install the Insulation Cover on the Ozone Converter 100HM and 101HM | 0.50 |
| Close-Up | 1.00 |
| TOTAL MANHOURS | 3.50 |
| ELAPSED TIME (HOURS) | 3.50 |

**H.** **WEIGHT** **AND** **BALANCE**

The weight and balance estimates given in this Service Bulletin are based on the Manufacturer’s Empty Weight (MEW) and do not include operator’s items. For the definition of MEW and operator’s items, refer to the Weight and Balance Manual (WBM) Chapter 1-00-07.

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 24

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Aircraft Type | A318 | A319 | A320 | A321 |
| Manufacturers Empty Weight | +0.725 KG (+1.599 LB) | +0.725 KG (+1.599 LB) | +0.725 KG  (+1.599 LB) | +0.725 KG  (+1.599 LB) |
| Effect on Balance | +9.99 KGM  (+72.26 LB.FT) | +10.56 KGM  (+76.38 LB.FT) | +11.72 KGM (+84.77 LB.FT) | +14.81 KGM (+107.12 LB.FT) |

**I.** **ELECTRICAL** **LOAD** **DATA**

Not Changed

**J.** **REFERENCES**

|  |  |  |  |
| --- | --- | --- | --- |
| Aircraft Maintenance Manual (AMM) | 06-20-00  12-34-24  53-35-13 | 06-31-53  20-21-11 | 06-41-53  51-42-00 |
| Elec. Std. Practices Manual (ESPM) | 20-55-00 | | |
| Service Bulletin (SB) | A320-21-1031  A320-21-1119  A320-21-1183  A320-21-1205  A320-21-1212 | | |
| Standards Manual (SM) |  | | |
| Weight and Balance Manual (WBM) | Chapter 1-00-07 | | |

**K.** **PUBLICATION** **AFFECTED**

|  |  |
| --- | --- |
| Aircraft Maintenance Manual (AMM) | 21-51-00 21-51-41 |
| Illustrated Parts Catalog (IPC) | 21-51-03 |

**L.** **INTERCHANGEABILITY/MIXABILITY**

Not Applicable

**M.** **SPARES**

None

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 25

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

This Page Intentionally Left Blank

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 26

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

**2.** **MATERIAL** **INFORMATION**

**\*\*CONF** **ALL**

**A.** **MATERIAL** **-** **PRICE** **AND** **AVAILABILITY**

(1) Procurement Addresses

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:

|  |  |
| --- | --- |
| Kit 211214D01R01 | AIRBUS Material, Logistics and Suppliers  Weg beim Jaeger 150  D-22335 HAMBURG  GERMANY  For ordering by internet: <http://spares.airbus.com>  For ordering by fax: +49 40 50 76 2590 For ordering by E-mail: airbus.kit@airbus.com |

(2) Price and Availability

|  |  |
| --- | --- |
| Kit 211214D01R01 | |
| Cost | 1,350.00 USD |
| Availability | 90 calendar days from receipt of order |

The availability given above is the standard lead time from the date of your purchase order. If items are required 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 economic conditions. The latest valid price and lead time for ordering purposes shall be obtained through the AirbusSpares portal or through a request for quotation to airbus.kit@airbus.com.

**B.** **INDUSTRY** **SUPPORT** **INFORMATION**

For aircraft under warranty at Jan 01/17, AIRBUS will share the costs of accomplishment of this Service Bulletin by providing the kits at no charge for orders placed before Jan 01/17.

For aircraft under warranty at Jan 01/17 and the accomplishment of this Service Bulletin before Jan 01/17, AIRBUS will credit the manhours indicated in this Service Bulletin at the agreed in-house warranty labor rate for claims received not later than 90 days after completion of the last affected aircraft of your fleet.

**C.** **LIST** **OF** **COMPONENTS**

Kit 211214D01R01

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ITEM | NEW PART N˚ | QTY (UM) | KEYWORD | ITEM | OLD PART N˚ | INT | SEE  NOTES |
| 1 | D2157230002200 | 2 | INSULATN |  |  |  |  |
| 2 | NSA935401-12 | 6 | TIE |  |  |  |  |
| 3 | MS21043-3 | 2 | NUT |  |  |  |  |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 27

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

NOTE: 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, refer to Standards Manual (SM). The SM will give you the correct part number to part number relationship.

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

None

**E.** **PARTS** **TO** **BE** **RE-IDENTIFIED** **BY** **OPERATOR**

None

**F.** **TOOLING**

None

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 28

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

**3.** **ACCOMPLISHMENT** **INSTRUCTIONS**

**Task** **211214-831-848-001** **-** **Modification**

WARNING: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND ALL THE CAUTIONS INCLUDED IN THE REFERENCED PROCEDURES.

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 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.

NOTE: The accomplishment instructions of this Service Bulletin refer to procedures included in other AIRBUS documents. When the words ’refer to’ are used and the operator has an accepted alternative procedure, the accepted alternative procedure can be used. When the words ’in accordance with’ are included in the instruction, the procedure in the AIRBUS document must be used.

NOTE: The access and close-up instructions, not comprising return to service tests, in this Service Bulletin do not constitute or affect the technical intent of the Service

Bulletin. Operators can therefore, as deemed necessary, omit or add access and/or close-up steps to add flexibility to their maintenance operations as long as the technical intent of the Service Bulletin is met within the set parameters.

NOTE: Manual titles given in the accomplishment instructions are referred to by acronyms. Refer to paragraph 1.J., References, for the definition of acronyms.

**Task** **Associated** **Data**

|  |  |  |
| --- | --- | --- |
| Zone | | |
| 191 192 | | |
| Modified FIN | | |
| 100HM 101HM | | |
| Access | | |
| Panel | 191BB 191KB 192FB 192KB | |
| Manpower | | |
| TOTAL MANHOURS | | 3.50 |
| ELAPSED TIME (HOURS) | | 3.50 |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 29

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

**A.** **GENERAL**

**(1)** **Subtask** **211214-910-201-001** **-** **Standard** **Practices**

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | NON SPECIFIC |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | 06-20-00, Page Block 001  06-31-53, Page Block 001  06-41-53, Page Block 001  Task 20-21-11-911-001  51-42-00 |

(a) For the Frame (FR) identification, refer to AMM 06-31-53, Page Block 001. (b) For the identification of zones, refer to AMM 06-20-00, Page Block 001.

(c) For the identification of access panels, refer to AMM 06-41-53, Page Block 001.

(d) Remove and install fasteners in accordance with AMM 51-42-00.

(e) To torque tighten the standard threaded fasteners, refer to AMM Task 20-21-11-911-001 .

**B.** **PREPARATION**

**(1)** **Subtask** **211214-941-201-001** **-** **Job** **Set-up**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 191 | Access | Panel 191BB, Panel 191KB |
|  | 192 | Access | Panel 192FB, Panel 192KB |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | NON SPECIFIC |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 12-34-24-869-002  Task 53-35-13-000-002 |

(a) The following items shall be considered as the basic Aircraft configuration before you start a maintenance task:

- Aircraft on the ground resting on landing gear (the ground safety locks and the wheel chocks are in position on the landing gear).

- Engine shut down, thrust reversers closed and locked.

- Aircraft in clean configuration.

- Parking brake applied.

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 30

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

- Aircraft electrical network de-energized.

- Hydraulic systems depressurized.

- Access to the cockpit and cabin is available.

- All circuit breakers are in closed position.

- All controls in NORM, AUTO or OFF position.

(b) Make sure that the aircraft is electrically grounded, refer to AMM Task 12-34-24-869-002 .

(c) Put a warning notice in position in the cockpit to tell persons not to operate the APU BLEED and the ENG 1 BLEED and the ENG 2 BLEED pushbutton switches.

(d) On the HP ground connector put a warning notice in position to tell persons not to supply the ground air.

(e) Remove the access panels 191BB, 191KB, 192FB and 192KB, refer to AMM Task 53-35-13-000-002 .

**C.** **PROCEDURE**

**(1)** **Subtask** **211214-831-201-001** **-** **Disconnect** **the** **Tie-Rod** **from** **the** **Ozone** **Converter** **100HM**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 191 | Access | Panel 191BB, Panel 191KB |
| Work location | from Frame 35 to Frame 38 |

|  |  |
| --- | --- |
| Manpower Resources | |
| Manhours | 0.50 |
| Minimum number of person | 1 |
| Subtask elapsed time | 0.50 |
| Skills | AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Fig. A-GBAAA  Installation of Insulation Cover on the Ozone Converters 100HM and 101HM | [Sheet 01](#_bookmark1) |

(a) On the ozone converter 100HM, disconnect the tie-rod.

Refer to [Fig. A-GBAAA Sheet 01](#_bookmark2)

1 Remove:

1 Nut MS21043-3 Item (3) Discard

1 Washer ASNA0113-48CA Item (4) Retain

6 DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

REVISION No.: 00 - Nov 26/13 Page: 31

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

1 Bolt NAS6704U10 Item (5) Retain

(b) Move the disconnected end of the tie-rod away from the ozone converter 100HM.

**(2)** **Subtask** **211214-831-203-001** **-** **Disconnect** **the** **Tie-Rod** **from** **the** **Ozone** **Converter**

**101HM**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 192 | Access | Panel 192FB, Panel 192KB |
| Work location | from Frame 35 to Frame 38 |

|  |  |
| --- | --- |
| Manpower Resources | |
| Manhours | 0.50 |
| Minimum number of person | 1 |
| Subtask elapsed time | 0.50 |
| Skills | AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Fig. A-GBAAA  Installation of Insulation Cover on the Ozone Converters 100HM and 101HM | [Sheet 01](#_bookmark3) |

(a) On the ozone converter 101HM, disconnect the tie-rod.

Refer to [Fig. A-GBAAA Sheet 01](#_bookmark4)

1 Remove:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | Nut | MS21043-3 | Item (3) | Discard |
| 1 | Washer | ASNA0113-48CA | Item (4) | Retain |
| 1 | Bolt | NAS6704U10 | Item (5) | Retain |

(b) Move the disconnected end of the tie-rod away from the ozone converter 101HM.

**(3)** **Subtask** **211214-831-202-001** **-** **Install** **the** **Insulation** **Cover** **on** **the** **Ozone** **Converter** **100HM** **and** **101HM**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 191 | Work location | from Frame 35 to Frame 38 |
|  | 192 | Work location | from Frame 35 to Frame 38 |

|  |  |
| --- | --- |
| Manpower Resources | |
| Manhours | 0.50 |
| Minimum number of person | 1 |
| Subtask elapsed time | 0.50 |
| Skills | AIRFRAME |

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 32

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

|  |
| --- |
| Material necessary to do the job |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Kit 211214D01R01 | | | | |
| ITEM | NEW PART N˚ | QTY (UM) | KEYWORD | SEE  NOTES |
| 1 | D2157230002200 | 2 | INSULATN |  |
| 2 | NSA935401-12 | 6 | TIE |  |
| 3 | MS21043-3 | 2 | NUT |  |

|  |  |
| --- | --- |
| References | |
| Fig. A-GBAAA  Installation of Insulation Cover on the Ozone Converters 100HM and 101HM | [Sheet 01](#_bookmark5) |

(a) On the ozone converter 100HM, install the insulation cover, Item 1.

If necessary, cut the foil to enable the insulation blanket to be fitted around the

pressure sensor connectors on the ozone converter.

Refer to [Fig. A-GBAAA Sheet 01](#_bookmark6)

1 Install:

1 Insulation Cover D2157230002200 Item 1

2 Overlap the insulation cover at the ends of the ozone converter.

3 Attach the hook and loop tape around the ozone converter to secure the insulation cover, Item 1.

NOTE : Make sure that the hook and loop tape is correctly fastened.

4 Install the tie wrap, Item 2, around the ends of the insulation cover, Item 1:

3 Tie-Wrap NSA935401-12 Item 2

5 Re-connect the ozone converter to the tie-rod with:

1 Bolt NAS6704U10 Item (5) Retained at removal

1 Washer ASNA0113-48CA Item (4) Retained at removal

1 Nut MS21043-3 Item 3

(b) On the ozone converter 101HM, install the insulation cover, Item 1.

If necessary, cut the foil to enable the insulation blanket to be fitted around the pressure sensor connectors on the ozone converter.

Refer to [Fig. A-GBAAA Sheet 01](#_bookmark7)

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 33

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

1 Install:

1 Insulation Cover D2157230002200 Item 1

2 Overlap the insulation cover at the ends of the ozone converter.

3 Attach the hook and loop tape around the ozone converter to secure the insulation cover, Item 1.

NOTE : Make sure that the hook and loop tape is correctly fastened.

4 Install the tie wrap, Item 2, around the ends of the insulation cover, Item 1:

3 Tie-Wrap NSA935401-12 Item 2

5 Re-connect the ozone converter to the tie-rod with:

1 Bolt NAS6704U10 Item (5) Retained at removal

1 Washer ASNA0113-48CA Item (4) Retained at removal

1 Nut MS21043-3 Item 3

**D.** **TEST**

None

**E.** **CLOSE-UP**

**(1)** **Subtask** **211214-942-201-001** **-** **Close-up**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 191 | Access | Panel 191BB, Panel 191KB |
|  | 192 | Access | Panel 192FB, Panel 192KB |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 53-35-13-400-002 |

(a) Make sure that the work areas are clean and clear of tools and other items of equipment.

(b) Install the access panels 191BB, 191KB, 192FB and 192KB, refer to AMM Task 53-35-13-400-002 .

(c) Remove the warning notice(s).

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 34

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

|  |
| --- |
| 100HM |

|  |
| --- |
| 101HM |

**A**

Z190

FR38

**B**





**B**





SERVICE BULLETIN

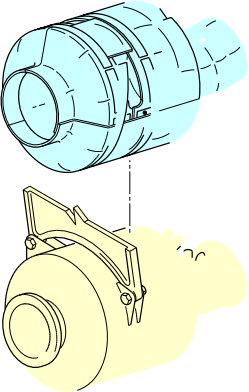
**\*\*CONF** **ALL**

1

|  |
| --- |
| **A** |

FR35

2

HOOK AND LOOP TAPE

(3) 3

(4)

TIE−ROD

2

(5)

OZONE CONVERTER

 **B** 

TYPICAL

N\_SB\_211214\_6\_BAAA\_01\_01

Figure A-GBAAA - Sheet 01

Installation of Insulation Cover on the Ozone Converters 100HM and 101HM

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 35

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

REPORTING SHEET

**TITLE:** **AIR** **CONDITIONING** **-** **AIR** **COOLING** **-** **INTRODUCE** **INSULATION**

**COVER** **ON** **ALL** **OPTIONAL** **OZONE** **CONVERTERS**

MODIFICATION No.: 155206K17084

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: 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

CUSTOMER SERVICES DIRECTORATE

1 Rond Point Maurice Bellonte

31707 BLAGNAC CEDEX FRANCE

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.

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 1

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.

@A318/A319/A320/A321

SERVICE BULLETIN

QUALITY PERCEPTION FORM

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

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

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

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

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

Planning

X Effectivity

X Reason

X Manpower

X References

X Publication

Comments:

Material

X Kit content

X List of Materials Operator Supplied X Industry support

X Re-identification

X Tooling

Instructions

X Preparation

X Mod/Inspection

X Test

X Close-Up

X Illustrations

Operator:

Date:

Name/Title:

Please return this form to:

AIRBUS

CUSTOMER SERVICES DIRECTORATE

1 Rond Point Maurice Bellonte

31707 BLAGNAC CEDEX FRANCE

Attn : SEM4 Service Bulletins Management

FAX : (33) 5 61 93 42 51

Or via your Resident Customer Support Office.

DATE: Nov 26/13 SERVICE BULLETIN No.: A320-21-1214

6

REVISION No.: 00 - Nov 26/13 Page: 1

Printed in FRANCE © AIRBUS S.A.S. 2007. All rights reserved.