

SERVICE BULLETIN
REVISION TRANSMITTAL SHEET

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 SYSTEM - INTRODUCE NEW
PACK PLENUM DIFFUSER**

MODIFICATION No.: 38951K12351

This page transmits Revision No.01 of Service Bulletin No.A320-21-1180

ADDITIONAL WORK

****CONF ALL**

No additional work is required by this revision for aircraft modified by any previous issue.

REASON

This Service Bulletin has been revised to update the effectivity. Furthermore, the display of manhours was automatically updated with the second digit after the comma.

CHANGES

Layout changes due to computerization of this revision are not identified.

****CONF 001**

SUMMARY	
EFFECTIVITY	SUMMARY EFFECTIVITY UPDATED
MANPOWER	SUMMARY MANPOWER UPDATED
PLANNING INFORMATION	
EFFECTIVITY	EFFECTIVITY UPDATED
MSN Information	EFFECTIVITY UPDATED
Configuration definition	CONFIGURATION UPDATED
MANPOWER	MANPOWER UPDATED
ACCOMPLISHMENT INSTRUCTIONS	
Task associated data-001	MAN HOURS UPDATED
Task associated data-001	MAN HOURS UPDATED

FILLING INSTRUCTIONS****CONF ALL**

This Service Bulletin has been generated electronically and is reissued as a complete document.
Replace the complete document.

Put this Revision Transmittal Sheet in front of the Service Bulletin.

HISTORY OF PREVIOUS REVISIONS

No previous revision

REVISION SEQUENCE

ORIGINAL: Aug 07/08

REVISION No. : 01 - Oct 21/08

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SUMMARY

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This summary is for information only and is not approved for modification of the aircraft.

ATA SYSTEM: 21

**TITLE: AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE NEW
PACK PLENUM DIFFUSER**

****CONF ALL**

MODIFICATIONS

MODIFICATION CLASSIFICATION	
MAJOR	None
MINOR	38951K12351

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

In-service experience has shown that delamination of the diffuser in the plenum chamber of the air-conditioning packs can occur. The affected diffuser are made of composite material and the first delamination of the diffuser was reported after 8000 Flight Hours. The delamination can cause overheating and damage to the related air-conditioning pack during ground operation.

The affected plenum chambers have the following Part Numbers (PN):

- 2056A0000-02
- 2056B0000-01
- 749A0000-02

This Service Bulletin introduces the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletins No. 2056B-21-01 and 2301A-21-03. These Service Bulletins introduce a new or modified plenum chamber with a diffuser made of aluminum material.

The operator has the alternative to:

- Install a new plenum chamber with new aluminum diffuser, or
- Install a modified plenum chamber with new aluminum diffuser.

NOTE (01): This modification is applicable for air-conditioning packs with PN:

6 DATE: Aug 07/08

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SERVICE BULLETIN SUMMARY

- 744A0000-XX
- 744D0000-XX
- 1310A0000-XX
- 2301A0000-XX

NOTE (02): This modification does not change the PN of the air-conditioning packs.

The accomplishment of this Service Bulletin improves the diffuser in the plenum chamber. The new diffuser is not subjected to delamination and thus prevents overheat and damage to the air-conditioning packs during ground operation.

GENERAL EVALUATION

EVALUATION TABLE			
COMPLIANCE	RECOMMENDED	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	YES

MATERIAL PRICE INFORMATION

MATERIAL PRICE INFORMATION TABLE				
TYPE	MATERIAL	QUANTITY PER A/C	PRICE PER A/C (USD)	MAINPARTS
REID	Reidentified part set REIDD01	See SB	See SB	Plenum Chamber.
BFE	Equipment BFEZ01	See SB	See SB	Plenum Chamber.

EFFECTIVITY

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

03X	06Y	31V	31X	36V	39Z	47W	53Z	57W	62X	73W	93V	95V
AAF	AAN	AAR	AAW	ABQ	ABY	ACA	ACI	ADH	ADR	AEE	AFL	AFR
AHY	AIJ	AJM	ALK	AMC	AMU	ANA	ARG	ATC	AUA	AVA	AXM	AZA
BAB	BAW	BEC	BER	BGH	BIE	BKP	BMA	BMM	BRS	BST	BTM	BWG
CCA	CCM	CEB	CES	CIB	CLI	CQH	CQN	CSA	CSC	CSN	CSZ	CTN
CYP	DAT	DCS	DGA	DKH	DKN	DLH	DXH	EDW	EEZ	EIN	ETD	EZY
F2I	FFT	FHY	FIN	FOM	G4I	G8E	GFA	GOW	GWI	GWY	GXL	HDA
HEJ	HVN	I2L	IAC	IBE	IGO	INX	IRM	ISR	ISS	IWD	JAV	JBU
JCS	JET	JKK	JSA	JST	JZR	KAC	KBR	KFR	KGL	KKK	KNE	KYV
KZR	LAN	LBT	LFO	LTC	LTE	LTU	LVG	MAU	MDL	MEA	MLD	MNJ
MON	MPD	MSC	MSR	MXA	MYW	NKS	NLY	NVR	NWA	OHY	ORF	P2G
PAL	PIC	PTI	QAF	QTR	R1T	RBA	RJA	RNV	RYW	RZO	SAS	SBI
SDM	SFJ	SHJ	SHY	SKB	SLK	SSV	SVR	SWR	SYR	TAE	TAI	TAM
TAP	TAR	TAS	TCW	TCX	TGW	THY	TNA	TOM	UAL	UDC	UEA	USA
VBW	VIM	VKG	VLE	VLG	VLK	VLU	VOI	VRD	VUN	WGT	WHT	WVL
WZZ	XLF											

SERVICE BULLETIN
SUMMARY**CONCURRENT REQUIREMENTS**

None

REFERENCES / REPERCUSSIONS

TFU	21.52.00.009
OEB	None
AOT	None
SIL	None
LINE MAINTENANCE AFFECTED	no
LIFE LIMIT	none
OTHERS	none

NATURE OF THE WORK

AIRCRAFT	NO
EQUIPMENT	YES
HARD	NO
SOFT	NO
OBRM	NO

MANPOWER

Task 211180-831-848-001: MODIFICATION	
TOTAL MANHOURS	12.00
ELAPSED TIME (HOURS)	7.00

Task 211180-831-850-001: MODIFICATION	
TOTAL MANHOURS	12.00
ELAPSED TIME (HOURS)	7.00

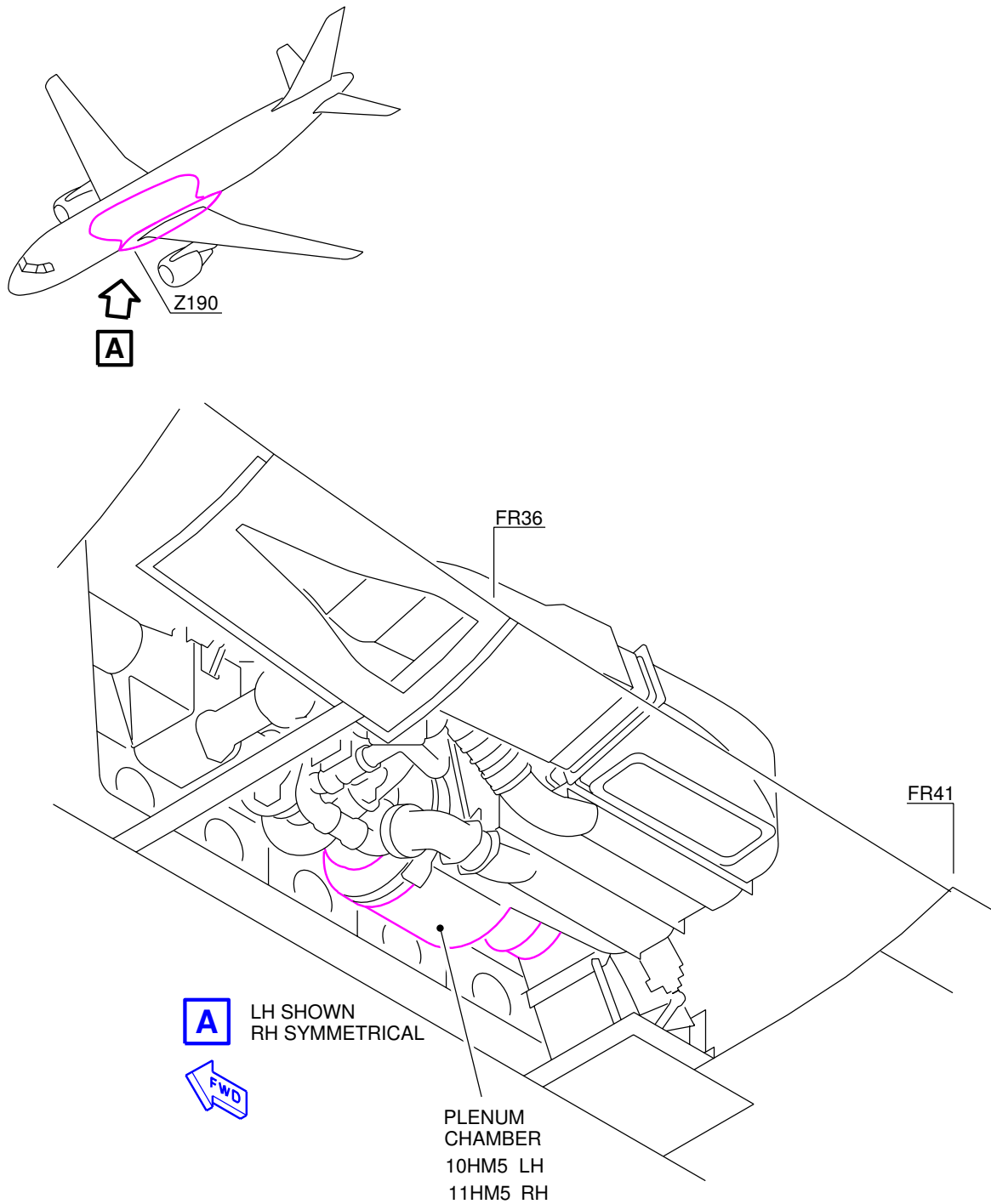
APPENDICES

None

A318/A319/A320/A321

SERVICE BULLETIN SUMMARY

****CONF ALL**



N_SB_211180_6_SAAA_01_01

Figure A-GSAAA - Sheet 01

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MODIFICATION No.: 38951K12351

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1. PLANNING INFORMATION

****CONF ALL**

A. EFFECTIVITY

(1) Models

320-111	320-211	320-231	320-212	321-131	320-232	321-112	320-233
321-111	320-214	319-114	319-112	319-113	321-231	321-211	319-131
319-111	321-212	319-132	319-133	319-115	321-232	320-216	321-213

(2) Effectivity by MSN

0002-0008 0010 0012-0014 0016-0017 0019-0021 0029 0031 0033-0035 0037-0059
0061-0078 0080-0091 0093-0104 0108-0237 0239-0270 0272-0373 0375-0396
0398-0432 0434-0480 0482-0535 0537-0546 0548-0601 0603-0631 0633-0707
0709-0752 0754-0788 0790-1185 1187-1277 1279-1373 1375-1598 1600-1659
1661-1812 1814-1821 1823-1829 1831-1918 1920-1929 1931-1938 1940-1984
1986-1990 1993-2016 2018-2024 2026-2034 2036 2038-2042 2044-2049 2052
2054-2058 2060-2061 2063-2070 2072-2080 2082-2099 2101-2108 2110 2112-2118
2121-2128 2130-2169 2171-2175 2177-2180 2182-2183 2185-2195 2197-2212
2215-2217 2219-2223 2225-2227 2229 2231-2244 2246-2248 2250 2252-2264
2266-2267 2269-2270 2272-2275 2278 2280 2282 2284-2288 2290-2295 2297-2299
2301-2305 2307 2309-2316 2318 2320-2325 2327 2329-2332 2334 2336-2343 2345
2347-2349 2351-2352 2354 2356-2357 2359 2361 2363-2366 2368-2369 2371-2374
2376 2381-2382 2384 2386 2388-2391 2393 2395 2397 2399 2401 2403 2405
2407-2411 2413 2415-2417 2419 2421-2423 2425-2426 2428-2430 2432 2434-2435
2437 2439 2441 2443 2445 2447 2449 2451 2453-2455 2457-2459 2461-2462 2464

2466 2472 2474-2476 2478-2480 2482 2484 2486 2488-2489 2491 2493-2494 2496
 2498-2500 2502 2504-2511 2513 2515 2517 2520-2522 2524-2526 2529-2537
 2539-2540 2542-2543 2547 2549 2553 2562-2564 2566 2568-2571 2573 2576-2577
 2580 2583-2584 2587 2589-2591 2594-2600 2602 2604 2606 2608-2610 2612-2613
 2615-2616 2618-2620 2623 2626-2627 2630 2633 2635 2637 2639-2642 2645 2647
 2649 2651-2654 2656 2658 2661 2663 2665 2668-2671 2674 2676 2678 2680
 2682-2683 2685 2687-2690 2692 2695-2696 2699 2701 2703 2705 2707-2708 2710
 2712-2714 2717 2719 2721 2724-2726 2728 2730-2732 2734 2736-2737 2740-2741
 2743 2745 2747 2749 2752-2753 2755-2756 2758-2761 2764 2766-2768 2770 2772
 2775-2776 2778 2781 2783 2785 2787 2789 2791-2794 2796 2798-2800 2802 2804
 2807-2810 2814 2816-2817 2820 2822-2824 2826 2828 2830 2832 2834-2835 2838
 2840 2842 2844 2846 2848 2851 2853 2855-2856 2859 2861-2863 2865 2867-2869
 2871 2874-2875 2877 2880-2883 2885 2895-2896 2899-2900 2902-2904 2906
 2908-2909 2911-2912 2914-2917 2919-2920 2922 2924 2926-2928 2930 2932-2934
 2936-2937 2939 2941 2943-2945 2947 2950 2952-2953 2956-2958 2960 2962
 2964-2966 2968 2970-2971 2973-2975 2977 2980 2982 2984 2986-2996 2998-3000
 3002 3004-3006 3008 3010 3012-3016 3018 3021-3023 3025 3027 3029 3031
 3033-3035 3037 3039-3040 3042 3044 3047-3048 3050-3052 3055-3056 3058 3060
 3063-3064 3066-3068 3070-3072 3074-3076 3079-3081 3083 3086-3087 3089 3091
 3093 3095 3097-3099 3101 3103 3105-3107 3109 3111-3113 3115 3117 3119-3121
 3123 3125-3127 3129-3132 3135-3136 3138 3140-3141 3143 3145-3162 3164
 3166-3167 3170 3173-3174 3177-3178 3180 3182-3183 3185 3187 3189-3192 3194
 3196-3199 3201 3203 3205-3208 3210-3213 3215 3217-3219 3221-3224 3227-3230
 3232-3237 3239-3242 3244 3246-3247 3249 3251 3254 3256-3257 3259 3261-3268
 3270 3272-3275 3277-3278 3280 3282-3284 3286-3287 3289-3291 3293-3297 3299
 3301-3304 3306-3308 3310 3312-3316 3318-3319 3321-3323 3325-3330 3332
 3334-3335 3337-3341 3343 3345 3348-3351 3353-3355 3357 3359-3362 3365-3370
 3372-3374 3376 3378-3379 3381-3384 3386-3387 3389 3391-3392 3394 3396-3402
 3404-3405 3408-3410 3412 3414 3416 3418-3420 3422-3423 3425 3427 3429-3431
 3433-3435 3437 3439-3441 3444 3446 3448-3449 3451 3453 3455-3462 3464-3465
 3468 3470-3490 3492-3494 3498 3504

(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
06Y	0345
31V	0006 0017
31X	2192
36V	1438
39Z	0956
47W	0764 1494 3164
53Z	1468
57W	1999
62X	2403 3402
73W	0088

A318/A319/A320/A321

SERVICE BULLETIN

OPERATOR	MSN
93V	1589
95V	3379
AAF	0244 0558 0561 0639 0808 0823 0888 1006 1451 1846
AAN	0430
AAR	0802 1227 1356 1511 1636 1670 1734 2041 2045 2110 2226 2247 2290 2397 2459 2808 2840 2943 3244 3297 3437 3483
AAW	3224 3236
ABQ	0394 0443 0760 1008 1199 1218
ABY	2158 2166 2278 2349 2678 2712 2764 2930 2964 3044 3218 3246 3444 3476
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 0649 0656 0670 0672 0682 0688 0691 0693 0695 0697 0711 0719 0721 0728 0732 0736 0740 0742 0752 0757 0769 0773 0779 0785 0800 0813 0817 0829 0831 0840 0845 1562 1577 1602 1611 1623 1632 1638 1719 1726 1748 1772 1783 1811 1864 1874 1940 2018 2145
ACI	2152
ADH	2869 2932 2995 3076 3079 3080 3115 3178 3213 3295 3328 3343 3362 3412 3464 3482
ADR	0043 0113 0114
AEE	3033 3066 3074 3365 3392 3423 3439 3462 3478
AFL	2052 2069 2072 2091 2093 2106 2116 2133 2144 2151 2163 2179 2222 2233 2243 2330 2337 2342 2875 2903 2912 2920 2947 2957 2965 3052 3063 3157 3191 3267 3334 3373 3410
AFR	0002 0004 0005 0007 0010 0012 0013 0014 0016 0019 0020 0021 0044 0061 0062 0063 0100 0101 0102 0108 0115 0128 0129 0130 0131 0133 0144 0145 0155 0156 0184 0186 0187 0188 0214 0226 0227 0228 0235 0236 0237 0239 0270 0278 0285 0286 0287 0337 0352 0377 0491 0498 0509 0521 0529 0544 0598 0600 0608 0618 0625 0637 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 2140 2705 2721 3008 3051 3098 3372 3399 3401 3419 3420 3441 3470
AHY	0331
AIJ	1132 1162 1179 1244 1259 1308 1322 3149 3160 3286 3312
AJM	0624 0626 0628 0666 0775 1213 1390 1503 1747 1905 1966 1988 2048
ALK	0164 0169 0304 0315 0406
AMC	2113 2122 2142 2186 2189 2291 2332 2382 2665 2768 3056 3068
AMU	0557 0597 0620 0631 0805 0908 1758 1790 1850 1893 1912 1926 1962
ANA	0139 0151 0167 0170 0196 0212 0219 0245 0300 0328 0365 0383 0413 0482 0501 0507 0531 0534 0549 0554 0658 0669 0685 1973 2054 2061 2998 3099 3147 3148 3189

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SERVICE BULLETIN

OPERATOR	MSN
ARG	0420 0436
ATC	0630
AUA	0552 0570 0581 0768 0776 0797 0920 0935 1137 1150 1189 1387 1458 1478 2131 2174 2262 2416 2494 2547 2652
AVA	3408
AXM	2612 2633 2656 2683 2699 2760 2816 2826 2842 2881 2885 2926 2944 2956 2989 3000 3018 3064 3117 3140 3154 3173 3182 3194 3201 3223 3232 3261 3277 3291 3299 3327 3338 3353 3370 3394 3404 3427 3448 3477 3486 3489
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
BAB	0579 0645
BAW	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 2536 3081 3235 3254 3290 3301 3314 3351 3468
BEC	3199
BER	1629 1994 2005 2685 2696 2820 2835 2846 2853 2865 2968 2991 3006 3021 3055 3093 3121 3242 3289 3422
BGH	0221 0294 0305 0349
BIE	0293 0517 0519 0535 0642 0827 0891 2707
BKP	2254 2310 2509
BMA	0835 0934 1014 1174 1177 1194 1418 1424 1690 1697 1711 1732 1922 1987 2098 2188 2190 2194 2389 2429 2441 2466 2653 2799
BMM	2064 2076 2726 3070
BRS	2263
BST	0604 0614
BTV	0441 0449
BWG	0916 1240 1257 1464 1546 1557 1650 1785 1823 1896
CCA	0707 0724 0876 0921 1296 1654 1679 1753 2000 2007 2015 2172 2202 2205 2237 2269 2285 2293 2298 2454 2499 2508 2525 2532 3307 3329
CCM	0533 0548 1068 1145
CEB	2419 2439 2994 3048 3272 3433 3472 3487
CES	0665 0754 0772 0799 0828 0838 0854 0883 0897 0909 0914 0925 0939 0967 0984 0986 1005 1028 1030 1041 1070 1072 1093 1108 1285 1303 1312 1316 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 2155 2171 2182 2199 2212 2219 2221 2235 2239 2244 2274 2309 2315 2437 2451 2478 2493 2498 2543 2549 2562 2591 2606 2627 2882 2895 3170 3197 3233 3247 3249 3262 3471 3481
CIB	0774 0809 0884 0894 0905 0957 0971 1381 1402 1416 1437 1968

OPERATOR	MSN
CLI	0134 0136 0143 0146 0177 0199 0240 0241 0264 0303 0312 0992 1063 1221 1396 1430 1461 1550 3109 3145 3151 3174 3203 3237 3376 3400
CQH	0879 0978 1286 1372 1686 1769 2939 3014 3023
CQN	0696 0698 0704 0705
CSA	0674 0684 1439 1450 2719 2758 2789 3031 3060 3097
CSC	0540 0550 0551 0556 0573 0582 0591 0872 0874 0878 0902 0912 0915 0919 1007 1013 1060 1293 1500 2313 2348 2510 2534 2597 2639 3158 3167 3196 3210 3386 3449
CSN	0709 0710 0712 0718 0720 0722 0849 0859 0881 0895 0900 0950 0966 1035 1039 1057 1596 1614 1776 1788 1971 1974 1986 1995 2004 2008 2067 2080 2200 2203 2232 2273 2275 2334 2343 2345 2354 2361 2371 2408 2426 2435 2484 2505 2506 2511 2521 2530 2637 2680 2689 2701 2708 2713 2714 2741 2743 2759 2767 2770 2772 2796 2809 2824 2834 2855 2861 2877 2899 2915 2936 2950 2960 2971 2986 3067 3075 3112 3217 3241 3251 3459 3493
CSZ	0994 2909 2973 2980 3131 3132 3153 3206 3366 3383 3435 3440 3456
CTN	0258 0671 0767 0833 1009 1029 1237 1252
CYP	0035 0037 0038 0180 0256 0295 0316 1729 1768
DAT	0644 1160 1336 1388
DCS	1053
DGA	1485 1556
DKH	2975 3027 3234 3268 3368 3485
DKN	0932 0943 0977 2029 2077 2366 2376 2524 2564 2645 2676 2731 2747 2753 2874 2908 2914 2922 3012 3162 3183 3219 3316
DLH	0069 0070 0071 0072 0078 0083 0086 0093 0094 0104 0110 0111 0116 0117 0135 0137 0147 0161 0162 0172 0200 0201 0202 0209 0216 0217 0218 0267 0268 0269 0346 0382 0401 0412 0458 0468 0473 0474 0484 0493 0502 0505 0518 0560 0563 0564 0567 0595 0609 0610 0616 0623 0627 0636 0641 0651 0652 0679 0689 0692 0694 0699 0700 0717 0723 0729 0738 0744 0853 0860 0875 0887 0901 1080 1161 1188 1214 1260 1273 1337 1365 1367 3265 3339 3360 3387 3434
DXH	3215 3221 3337 3461
EDW	0942 0947 1026
EEZ	0737 0749 1125 1852 1920 1937 1983 2001
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 2542 2583 2635 2810 3129 3136 3318 3345
ETD	0350 1944 1945 1947 1955 2167 3004 3050
EZY	1687 1715 1723 1754 1869 1918 1969 1993 2137 2157 2462 2682 3106 3382
F2I	0008 0033
FFT	1488 1515 1560 1579 1583 1684 1743 1759 1781 1803 1841 1851 1863 1876 1943 1980 1997 2010 2012 2019 2030 2103 2198 2209 2236 2240 2241 2253 2258 2260 2287 2318 3389 3431
FHY	0132 0283 0288 0771 0855

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SERVICE BULLETIN

OPERATOR	MSN
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
FOM	2085 2090 2112 2130 2148 2153 2173 2257 2297 2533 2594 2663
G4I	1157 1795 2507
G8E	0003
GFA	0289 0325 0375 0407 0409 0419 0459 0466 0497 0537 1884 1901
GOW	0471 1482 1509 3256 3306
GWI	0646 0654 0794 1016 1077 1084 1089 1136 1147 1155 1170 1172 1209 1277
GWY	1152 1198 1615 1725 1867 2175 2187 2325 2327
GXL	1860 2500
HDA	0633 0756 0784 0812 0877 0930 0993 1024 1253 1695 1721 1984 2021 2229 2238 2428
HEJ	0087 0142
HVN	0590 0594 0601 0605 0607 0611 0617 0619 0648 0650 2255 2261 2267 2303 2480 2974 3005 3013 3022 3198 3315 3355
I2L	0525
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 0354 0362 0376 0386 0396 0398 0411 0416 0423 0431 0432 0451 0469 0478 0480 0486 0490 0492 0499 1668 1718 3130 3146 3212 3326 3340 3367 3498
IBE	0158 0173 0176 0207 0223 0224 0266 0274 0323 0356 1021 1027 1047 1059 1067 1087 1099 1101 1119 1154 1180 1200 1208 1229 1247 1255 1262 1288 1292 1318 1347 1362 1379 1454 1484 1516 1530 1540 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 2563 2599 2736 2756 2776 2807 2996
IGO	2844 2863 2883 2911 2958 2990 3086 3159 3192 3227 3259 3308 3335 3357 3414 3453 3457
INX	0963 0968 0974
IRM	0530 0575 0857 1202
ISR	0333
ISS	1048 1102 1283 1305
IWD	1130 1578 1597 1657 1767 2011 2745
JAV	0029
JBU	1123 1156 1173 1235 1270 1280 1302 1327 1398 1446 1452 1506 1528 1591 1610 1705 1739 1784 1827 1849 1861 1868 1891 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 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
JCS	0211

OPERATOR	MSN
JET	0163 0204 0215 0371 0393 0414 0421 0542 0647 0660 0816
JKK	1183 1276 1333 1349 1366 1383 1407 1497 1631 1682 1749 1843 1862 1914 1933 1946 1979 1998 2027 2168 2210 2223 2479 2589
JSA	2316 2356 2395 2401 2604
JST	1195 1408 2169 2185 2197 2292 2299 2322 2329 2338 2423 2453 2455 2457 2475 2515 2526 2537 2573 2587 2600 2608 2642 2651 2703 2717 2766 2787 3474
JZR	2569 2584 2792 2822 3016 3349
KAC	0181 0182 0195 2046
KBR	0937
KFR	2413 2443 2496 2502 2522 2531 2576 2670 2817 2856 2916 2919 2927 2933 3034 3089 3105 3120 3270 3302 3322
KGL	0313
KKK	0460 0461 0640 0676
KNE	1086 1124 1886 2165 3361 3396 3425 3475
KYV	1012 2117
KZR	1042 1204 2016 2128 2828 2987 3141 3484
LAN	0990 1304 1332 1351 1355 1491 1512 1526 1548 1568 1626 1854 1858 1877 1903 2089 2096 2295 2304 2321 3280 3319
LBT	0112 0222 0246 0299 0301 0348 0400 0793 0970 0995 1121 1175 1744 3480
LFO	0659
LTC	0310 0359 0384 0446 0726
LTE	0438 0445 0496 0580 2123
LTU	1385 1441 1493 1504 1553 1607 1762 1797 1806 1838 1931 2009 2539 2619 2654
LVG	0792 1950 1970
MAU	1592 1936
MDL	0279 0391 3264 3330
MEA	1878 1953 1956 1967 1977 2055
MLD	0249 0622
MNJ	0615
MON	0379 0389 0392 0864 0983 1015 1045 1081 1153 1207 1370 1428 1433 1707 1763 1794 1941 2105 2234
MPD	0342 0426 0662
MSC	2937 2966 3282 3323
MSR	0165 0166 0178 0194 0198 0322 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 0357 0361 0368 0369 0373 0405 0415 0428 0447 0467 0566 1429 1598 1612 1618 1625 1630 1634 1673 1706 1742 1750 1805 1866 1872 1882 1925 2066 2078 2126 3123 3304 3374
MYW	0338 0363 0444 0814
NKS	2476 2590
NLY	2529 2668 2749 2761 2867 2902 3504
NVR	2211 2216 2410

OPERATOR	MSN
NWA	0031 0034 0040 0041 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
OHY	0364 0385 0663 0668 0787 0954 1004 1421
ORF	2566
P2G	0302
PAL	0706 0745 0936 1171 1210 2162 2183 3087 3107 3187 3205 3273 3310 3455
PIC	0455
PTI	1727 1880
QAF	0927 1335
QTR	0928 1487 1566 1648 1656 1773 1895 1928 1957 2097 2107 2121 2138 2161 2288 2341 3071 3274 3369 3397
R1T	1908
RBA	2023 2032 2135 2139
RJA	0675 0761 2598 2649 2692 2730 2793 2953 3458
RNV	0229 0913 3492
RYW	0569
RZO	0795 2390 2425
SAS	1587 1619 1642 1675 1798 1807 1817 1848
SBI	1071 1078 1090 1091 1126 1129 1131 1164 1819 1870 2028 2369 2373 2464 2474 2618 2641 3446 3473 3490 3494
SDM	0427 1149 1167 1761 1890
SFJ	2620 2658 2695 3025
SHJ	0910
SHY	0138 0148 0811
SKB	1853 1963
SLK	0899 0969 1074 1098 1228 1422 1561 1698 2058 2252 2517 2568 2775
SSV	1605 1780
SVR	0140 0157 0203 0220 0735
SWR	0520 0522 0541 0545 0553 0559 0562 0574 0577 0578 0585 0596 0603 0612 0621 0635 0643 0664 0673 0681 0701 0703 0713 0727 0734 0782 0987 1018 1144 1951 2024 2134
SYR	0886 0918 1032 1076 1085 1117
TAE	0657 2014
TAI	0741 1066 1113 1300 1334 1353 1400 1523 1624 1676 1730 1934 1952 2102 2118 2282 2301 2339 2434 2553 2610 2687 2791 2862 2917 3042 3103 3113 3378 3418

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SERVICE BULLETIN

OPERATOR	MSN
TAM	0243 0250 0251 0334 0335 0440 0453 0758 0976 1010 1092 1096 1103 1139 1143 1158 1215 1246 1251 1339 1368 1376 1459 1486 1518 1575 1580 1593 1595 1608 1613 1628 1652 1663 1672 1692 1703 1717 1757 1771 1775 1801 1802 1804 1818 1825 1826 1831 1832 1835 1837 1855 1857 1888 2044 2084 2372 2393 2417 2445 2513 2602 2661 2734 2737 2740 2783 2838 2859 2896 2904 2924 3002 3035 3037 3047 3058 3111 3156 3180 3211 3222 3229 3240 3266 3278 3284 3294 3313 3325 3391
TAP	0185 0191 0234 0395 0629 0750 0755 0763 0790 0821 0837 0870 0906 0917 0933 0945 0960 0979 0982 1034 1100 1106 1120 1127 1165 1181 1206 1231 1307 1399 1667 1713 1756 1765 1799 1816 2178
TAR	0119 0123 0124 0205 0370 0390 0402 0511 0869 0880 0958 0975 1187 1479 1700
TAS	0667 0739 0743 1054
TCW	0343 0425 0653 1306 1787 1929 1975
TCX	0193 0424 0429 0437 0476 0677 0716 1238 1250 1411 1942 1961 1965 1972 2003
TGW	2195 2204 2331 2340 2724 2728 2906 2952 2982 3275 3296 3332
THY	0806 0810 1002 1219 1233 1856 1909 1996 2060 2609 2626 2823 2868 2928 2934 2941 2984 2999 3010 3015 3126 3185 3207 3208 3239 3257 3283 3303 3341 3350 3405 3429
TNA	0538 0555 0606 0731 0746 0791 0822
TOM	0781 0852 1320 1571 1637 1720 1777 2180
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
UDC	0085 0230 0733 0747
UEA	0946 0949 1263 1751

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SERVICE BULLETIN

OPERATOR	MSN
USA	0052 0053 0054 0055 0064 0065 0066 0067 0076 0077 0081 0082 0091 0098 0099 0317 0448 0527 0543 0565 0584 0661 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 1044 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 2359 2405 2422 2430 2458 2482 2570 2595 2613 2615 2630 2669 2690
VBW	0588
VIM	2108 2732 2804 3125
VKG	1881 1887 1889 1921 1932 1954 1960
VLE	0189 0190 3138 3161
VLG	1413 2114 2207 2227 2388 2407 2540 2596 2623 2785 2794 2798 2962 2988 3040 3083 3095 3152 3293 3321
VLK	0422 0528 0714 0730
VLU	2156 2164
VOI	1140 1159
VRD	2616 2674 2778 2800 2830 2851 2993 3101 3135 3155 3230 3359 3398 3460 3465
VUN	1017
WGT	1212
WHT	1256
WVL	2571
WZZ	0839 0892 1635 1834 1892 1902 2688 2752 3127 3143 3166 3177 3354 3384 3409 3430
XLF	0311 0973 1564

(4) Configuration by MSN

MSN	CONFIGURATION
0002 0003 0004 0005 0006 0007 0008 0010 0012 0013 0014 0016 0017 0019 0020 0021 0029 0031 0033 0034 0035 0037 0038 0039 0040 0041 0042 0043 0044 0045 0046 0047 0048 0049 0050 0051 0052 0053 0054 0055 0056 0057 0058 0059 0061 0062 0063 0064 0065 0066 0067 0068 0069 0070 0071 0072 0073 0074 0075 0076 0077 0078 0080 0081 0082 0083 0084 0085 0086 0087 0088 0089 0090 0091 0093 0094 0095 0096 0097 0098 0099 0100 0101 0102 0103 0104 0108 0109 0110 0111 0112 0113 0114 0115 0116 0117 0118 0119 0120 0121 0122 0123 0124 0125 0126 0127 0128 0129 0130 0131 0132 0133 0134 0135 0136 0137 0138 0139 0140 0141 0142 0143 0144 0145 0146 0147 0148 0149 0150 0151 0152 0153 0154 0155 0156 0157 0158 0159 0160 0161 0162 0163 0164 0165 0166 0167 0168 0169 0170 0171 0172 0173 0174 0175 0176 0177 0178 0179 0180 0181 0182 0183 0184 0185 0186 0187 0188 0189 0190 0191 0192 0193 0194 0195 0196 0197 0198 0199 0200 0201 0202 0203 0204 0205 0206 0207 0208 0209 0210 0211 0212 0213 0214 0215 0216 0217 0218 0219 0220 0221 0222 0223 0224 0225 0226 0227 0228 0229 0230 0231 0232 0233 0234 0235 0236 0237 0239 0240 0241 0242 0243 0244 0245 0246 0247 0248 0249 0250 0251 0252 0253 0254 0255 0256 0257 0258 0259 0260 0261 0262 0263 0264 0265 0266 0267 0268 0269 0270 0272 0273 0274 0275 0276 0277 0278 0279 0280 0281 0282 0283 0284 0285 0286 0287 0288 0289 0290 0291 0292 0293 0294 0295 0296 0297 0298 0299 0300 0301 0302 0303 0304 0305 0306 0307 0308 0309 0310 0311 0312 0313 0314 0315 0316 0317 0318 0319 0320 0321 0322 0323 0324 0325 0326 0327 0328 0329 0330 0331 0332 0333 0334 0335 0336 0337 0338 0339 0340 0341 0342 0343 0344 0345 0346 0347 0348 0349 0350 0351 0352 0353 0354 0355 0356 0357 0358 0359 0360 0361 0362 0363 0364 0365 0366 0367 0368 0369 0370 0371 0372 0373 0375 0376 0377 0378 0379 0380 0381 0382 0383 0384 0385 0386 0387 0388 0389 0390 0391 0392 0393 0394 0395 0396 0398 0399 0400 0401 0402 0403 0404 0405 0406 0407 0408 0409 0410 0411 0412 0413 0414 0415 0416 0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444 0445 0446 0447 0448 0449 0450 0451 0452 0453 0454 0455 0456 0457 0458 0459 0460 0461 0462 0463 0464 0465 0466 0467 0468 0469 0470 0471 0472 0473 0474 0475 0476 0477 0478 0479 0480 0482 0483 0484 0485 0486 0487 0488 0489 0490 0491 0492 0493 0494 0495 0496 0497 0498 0499 0500 0501 0502 0503 0504 0505 0506 0507 0508 0509 0510 0511 0512 0513 0514 0515 0516 0517 0518 0519 0520 0521 0522 0523 0524 0525 0526 0527 0528 0529 0530 0531 0532 0533 0534 0535 0537 0538 0539 0540 0541 0542 0543 0544 0545 0546 0548 0549 0550 0551 0552 0553 0554 0555 0556 0557 0558 0559 0560 0561 0562 0563 0564 0565 0566 0567 0568	001

MSN	CONFIGURATION
0569 0570 0571 0572 0573 0574 0575 0576 0577 0578 0579 0580 0581 0582 0583 0584 0585 0586 0587 0588 0589 0590 0591 0592 0593 0594 0595 0596 0597 0598 0599 0600 0601 0603 0604 0605 0606 0607 0608 0609 0610 0611 0612 0613 0614 0615 0616 0617 0618 0619 0620 0621 0622 0623 0624 0625 0626 0627 0628 0629 0630 0631 0633 0634 0635 0636 0637 0638 0639 0640 0641 0642 0643 0644 0645 0646 0647 0648 0649 0650 0651 0652 0653 0654 0655 0656 0657 0658 0659 0660 0661 0662 0663 0664 0665 0666 0667 0668 0669 0670 0671 0672 0673 0674 0675 0676 0677 0678 0679 0680 0681 0682 0683 0684 0685 0686 0687 0688 0689 0690 0691 0692 0693 0694 0695 0696 0697 0698 0699 0700 0701 0702 0703 0704 0705 0706 0707 0709 0710 0711 0712 0713 0714 0715 0716 0717 0718 0719 0720 0721 0722 0723 0724 0725 0726 0727 0728 0729 0730 0731 0732 0733 0734 0735 0736 0737 0738 0739 0740 0741 0742 0743 0744 0745 0746 0747 0748 0749 0750 0751 0752 0754 0755 0756 0757 0758 0759 0760 0761 0762 0763 0764 0765 0766 0767 0768 0769 0770 0771 0772 0773 0774 0775 0776 0777 0778 0779 0780 0781 0782 0783 0784 0785 0786 0787 0788 0790 0791 0792 0793 0794 0795 0796 0797 0798 0799 0800 0801 0802 0803 0804 0805 0806 0807 0808 0809 0810 0811 0812 0813 0814 0815 0816 0817 0818 0819 0820 0821 0822 0823 0824 0825 0826 0827 0828 0829 0830 0831 0832 0833 0834 0835 0836 0837 0838 0839 0840 0841 0842 0843 0844 0845 0846 0847 0848 0849 0850 0851 0852 0853 0854 0855 0856 0857 0858 0859 0860 0861 0862 0863 0864 0865 0866 0867 0868 0869 0870 0871 0872 0873 0874 0875 0876 0877 0878 0879 0880 0881 0882 0883 0884 0885 0886 0887 0888 0889 0890 0891 0892 0893 0894 0895 0896 0897 0898 0899 0900 0901 0902 0903 0904 0905 0906 0907 0908 0909 0910 0911 0912 0913 0914 0915 0916 0917 0918 0919 0920 0921 0922 0923 0924 0925 0926 0927 0928 0929 0930 0931 0932 0933 0934 0935 0936 0937 0938 0939 0940 0941 0942 0943 0944 0945 0946 0947 0948 0949 0950 0951 0952 0953 0954 0955 0956 0957 0958 0959 0960 0961 0962 0963 0964 0965 0966 0967 0968 0969 0970 0971 0972 0973 0974 0975 0976 0977 0978 0979 0980 0981 0982 0983 0984 0985 0986 0987 0988 0989 0990 0991 0992 0993 0994 0995 0996 0997 0998 0999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134	001

SERVICE BULLETIN

MSN	CONFIGURATION
1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500 1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700	001

SERVICE BULLETIN

MSN	CONFIGURATION
1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1814 1815 1816 1817 1818 1819 1820 1821 1823 1824 1825 1826 1827 1828 1829 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1931 1932 1933 1934 1935 1936 1937 1938 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1986 1987 1988 1989 1990 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2018 2019 2020 2021 2022 2023 2024 2026 2027 2028 2029 2030 2031 2032 2033 2034 2036 2038 2039 2040 2041 2042 2044 2045 2046 2047 2048 2049 2052 2054 2055 2056 2057 2058 2060 2061 2063 2064 2065 2066 2067 2068 2069 2070 2072 2073 2074 2075 2076 2077 2078 2079 2080 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2101 2102 2103 2104 2105 2106 2107 2108 2110 2112 2113 2114 2115 2116 2117 2118 2121 2122 2123 2124 2125 2126 2127 2128 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2171 2172 2173 2174 2175 2177 2178 2179 2180 2182 2183 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2215 2216 2217 2219 2220 2221 2222 2223 2225 2226 2227 2229 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2246 2247 2248 2250 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2266 2267 2269 2270 2272 2273 2274 2275 2278 2280 2282 2284 2285 2286 2287 2288 2290 2291 2292 2293 2294 2295 2297 2298 2299 2301 2302 2303 2304 2305 2307 2309 2310 2311 2312 2313 2314 2315	001

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SERVICE BULLETIN

MSN	CONFIGURATION
2316 2318 2320 2321 2322 2323 2324 2325 2327 2329 2330 2331 2332 2334 2336 2337 2338 2339 2340 2341 2342 2343 2345 2347 2348 2349 2351 2352 2354 2356 2357 2359 2361 2363 2364 2365 2366 2368 2369 2371 2372 2373 2374 2376 2381 2382 2384 2386 2388 2389 2390 2391 2393 2395 2397 2399 2401 2403 2405 2407 2408 2409 2410 2411 2413 2415 2416 2417 2419 2421 2422 2423 2425 2426 2428 2429 2430 2432 2434 2435 2437 2439 2441 2443 2445 2447 2449 2451 2453 2454 2455 2457 2458 2459 2461 2462 2464 2466 2472 2474 2475 2476 2478 2479 2480 2482 2484 2486 2488 2489 2491 2493 2494 2496 2498 2499 2500 2502 2504 2505 2506 2507 2508 2509 2510 2511 2513 2515 2517 2520 2521 2522 2524 2525 2526 2529 2530 2531 2532 2533 2534 2535 2536 2537 2539 2540 2542 2543 2547 2549 2553 2562 2563 2564 2566 2568 2569 2570 2571 2573 2576 2577 2580 2583 2584 2587 2589 2590 2591 2594 2595 2596 2597 2598 2599 2600 2602 2604 2606 2608 2609 2610 2612 2613 2615 2616 2618 2619 2620 2623 2626 2627 2630 2633 2635 2637 2639 2640 2641 2642 2645 2647 2649 2651 2652 2653 2654 2656 2658 2661 2663 2665 2668 2669 2670 2671 2674 2676 2678 2680 2682 2683 2685 2687 2688 2689 2690 2692 2695 2696 2699 2701 2703 2705 2707 2708 2710 2712 2713 2714 2717 2719 2721 2724 2725 2726 2728 2730 2731 2732 2734 2736 2737 2740 2741 2743 2745 2747 2749 2752 2753 2755 2756 2758 2759 2760 2761 2764 2766 2767 2768 2770 2772 2775 2776 2778 2781 2783 2785 2787 2789 2791 2792 2793 2794 2796 2798 2799 2800 2802 2804 2807 2808 2809 2810 2814 2816 2817 2820 2822 2823 2824 2826 2828 2830 2832 2834 2835 2838 2840 2842 2844 2846 2848 2851 2853 2855 2856 2859 2861 2862 2863 2865 2867 2868 2869 2871 2874 2875 2877 2880 2881 2882 2883 2885 2895 2896 2899 2900 2902 2903 2904 2906 2908 2909 2911 2912 2914 2915 2916 2917 2919 2920 2922 2924 2926 2927 2928 2930 2932 2933 2934 2936 2937 2939 2941 2943 2944 2945 2947 2950 2952 2953 2956 2957 2958 2960 2962 2964 2965 2966 2968 2970 2971 2973 2974 2975 2977 2980 2982 2984 2986 2987 2988 2989 2990 2991 2992 2993 2994 2995 2996 2998 2999 3000 3002 3004 3005 3006 3008 3010 3012 3013 3014 3015 3016 3018 3021 3022 3023 3025 3027 3029 3031 3033 3034 3035 3037 3039 3040 3042 3044 3047 3048 3050 3051 3052 3055 3056 3058 3060 3063 3064 3066 3067 3068 3070 3071 3072 3074 3075 3076 3079 3080 3081 3083 3086 3087 3089 3091 3093 3095 3097 3098 3099 3101 3103 3105 3106 3107 3109 3111 3112 3113 3115 3117 3119 3120 3121 3123 3125 3126 3127 3129 3130 3131 3132 3135 3136 3138 3140 3141 3143 3145 3146 3147 3148 3149 3150 3151 3152 3153 3154 3155 3156 3157 3158 3159 3160 3161 3162 3164 3166 3167 3170 3173 3174 3177 3178 3180 3182 3183 3185 3187 3189 3190 3191 3192 3194 3196 3197 3198 3199 3201 3203 3205 3206 3207 3208 3210 3211 3212 3213 3215 3217 3218 3219 3221 3222 3223 3224 3227 3228 3229 3230 3232 3233 3234 3235 3236 3237	001

MSN	CONFIGURATION
3239 3240 3241 3242 3244 3246 3247 3249 3251 3254 3256 3257 3259 3261 3262 3263 3264 3265 3266 3267 3268 3270 3272 3273 3274 3275 3277 3278 3280 3282 3283 3284 3286 3287 3289 3290 3291 3293 3294 3295 3296 3297 3299 3301 3302 3303 3304 3306 3307 3308 3310 3312 3313 3314 3315 3316 3318 3319 3321 3322 3323 3325 3326 3327 3328 3329 3330 3332 3334 3335 3337 3338 3339 3340 3341 3343 3345 3348 3349 3350 3351 3353 3354 3355 3357 3359 3360 3361 3362 3365 3366 3367 3368 3369 3370 3372 3373 3374 3376 3378 3379 3381 3382 3383 3384 3386 3387 3389 3391 3392 3394 3396 3397 3398 3399 3400 3401 3402 3404 3405 3408 3409 3410 3412 3414 3416 3418 3419 3420 3422 3423 3425 3427 3429 3430 3431 3433 3434 3435 3437 3439 3440 3441 3444 3446 3448 3449 3451 3453 3455 3456 3457 3458 3459 3460 3461 3462 3464 3465 3468 3470 3471 3472 3473 3474 3475 3476 3477 3478 3479 3480 3481 3482 3483 3484 3485 3486 3487 3488 3489 3490 3492 3493 3494 3498 3504	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	REMARK
Reidentified part set REIDD01	1	(1)
Equipment BFEZ01	1	(2)

NOTE (1): REIDD01 is necessary for the installation of modified plenum chambers.

NOTE (2): BFEZ01 is necessary for the installation of new plenum chambers.

B. CONCURRENT REQUIREMENTS

None

C. REASON

(1) History

In-service experience has shown that delamination of the diffuser in the plenum chamber of the air-conditioning packs can occur. The affected diffuser are made of composite material and the first delamination of the diffuser was reported after 8000 Flight Hours. The delamination can cause overheat and damage to the related air-conditioning pack during ground operation.

The affected plenum chambers have the following Part Numbers (PN):

- 2056A0000-02

- 2056B0000-01
- 749A0000-02

(2) Objective/Action

This Service Bulletin introduces the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletins No. 2056B-21-01 and 2301A-21-03. These Service Bulletins introduce a new or modified plenum chamber with a diffuser made of aluminum material.

The operator has the alternative to:

- Install a new plenum chamber with new aluminum diffuser, or
- Install a modified plenum chamber with new aluminum diffuser.

NOTE (01): This modification is applicable for air-conditioning packs with PN:

- 744A0000-XX
- 744D0000-XX
- 1310A0000-XX
- 2301A0000-XX

NOTE (02): This modification does not change the PN of the air-conditioning packs.

(3) Advantages

The accomplishment of this Service Bulletin improves the diffuser in the plenum chamber. The new diffuser is not subjected to delamination and thus prevents overheat and damage to the air-conditioning packs during ground operation.

(4) Operational/Maintenance Consequences

none

D. DESCRIPTION

NOTE: The operator has the alternative to install modified or new plenum chambers.

To accomplish this Service Bulletin it is necessary to :

Task 211180-831-848-001: MODIFICATION

- (1) Replace the plenum chambers by modified parts.

Task 211180-831-850-001: MODIFICATION

- (1) Replace the plenum chambers by new parts.

E. COMPLIANCE

- (1) Classification

RECOMMENDED

- (2) Accomplishment Timescale

Accomplishment of this Service Bulletin is recommended at the earliest opportunity where manpower and facilities are available.

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 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 211180-831-848-001: MODIFICATION	
Get Access	0.75
On Aircraft	
Replace the plenum chambers by modified parts.	9.00
Tests	1.25
Close-Up	1.00
TOTAL MANHOURS	12.00
ELAPSED TIME (HOURS)	7.00

Task 211180-831-850-001: MODIFICATION	
Get Access	0.75
On Aircraft	
Replace the plenum chambers by new parts.	9.00
Tests	1.25
Close-Up	1.00
TOTAL MANHOURS	12.00
ELAPSED TIME (HOURS)	7.00

H. WEIGHT AND BALANCE

For weight and balance changes, refer to the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletins No. 2056B-21-01 and 2301A-21-03.

I. ELECTRICAL LOAD DATA

Not Changed

J. REFERENCES

Aircraft Maintenance Manual (AMM)	06-20-00 06-31-53 12-34-24 21-52-22 21-52-22 24-41-00 24-41-00
Common Support Data Dictionary (CSDD)	ATA Common Support Data Dictionary (CSDD), Chapter 2
Vendor Service Bulletin (VSB)	LIEBHERR-AEROSPACE LINDENBERG 2056B-21-01 LIEBHERR-AEROSPACE LINDENBERG 2301A-21-03

K. PUBLICATION AFFECTED

Illustrated Parts Catalog (IPC)	21-52-24
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L. INTERCHANGEABILITY/MIXABILITY

DESCRIPTION	OLD PART N°	NEW PART N°	INT	MIXABILITY	REMARK
Chamber-Air Plenum	2056A0000-02	2056A0000-02	02	See note(s)	(1) (2) (3)
Chamber-Air Plenum	2056B0000-01	2056B0000-01	02	See note(s)	(1) (2) (3)
Chamber-Air Plenum	749A0000-02	749A0000-02	02	See note(s)	(1) (2) (3)
Chamber-Air Plenum	749A0000-02	2056C0000-01	02	See note(s)	(1) (3)
Chamber-Air Plenum	2056A0000-02	2056C0000-01	02	See note(s)	(1) (3)
Chamber-Air Plenum	2056B0000-01	2056C0000-01	02	See note(s)	(1) (3)

NOTE (1): For definitions of interchangeability codes in column INT., ATA Common Support Data Dictionary (CSDD), Chapter 2.

NOTE (2): For the amendment of the Part Number of the plenum chamber after modification, refer to the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletins No. 2056B-21-01 and 2301A-21-03.

NOTE (3): Only the mixability configuration(s) and condition(s) stated in this Service Bulletin are approved.

M. SPARES

Chamber-Air Plenum	749A0000-02
Chamber-Air Plenum	2056A0000-02
Chamber-Air Plenum	2056B0000-01

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2. MATERIAL INFORMATION****CONF ALL****A. MATERIAL - PRICE AND AVAILABILITY**

(1) Procurement Addresses

Reidentified part set REIDD01	Modification of removed equipment should be negotiated directly with: LIEBHERR-AEROSPACE LINDENBERG GmbH as per instructions given in Service Bulletin No. 2056B-21-01 and 2301A-21-03.
Equipment BFEZ01	The material can be ordered from: LIEBHERR-AEROSPACE LINDENBERG GmbH as per instructions given in Service Bulletin No. 2301A-21-03.

(2) Price and Availability

Refer to the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletin No. 2056B-21-01 and 2301A-21-03 for the equipment modification sales terms.

B. INDUSTRY SUPPORT INFORMATION

Refer to the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletin No. 2056B-21-01 and 2301A-21-03 for the industry support terms.

C. LIST OF COMPONENTS

No Kit

D. LIST OF MATERIALS - OPERATOR SUPPLIED

(1) Consumable Materials

None

(2) Components

None

(3) Equipment

Equipment BFEZ01

ITEM	NEW PART N°	QTY (UM)	KEYWORD	ITEM	OLD PART N°	INT	REMARK
4	2056C0000-01	2	CHAMBER	(1)	749A0000-02	02	
				(2)	2056A0000-02	02	
				(3)	2056B0000-01	02	

NOTE: BFEZ01 is necessary for the installation of new plenum chambers.

NOTE: For definitions of interchangeability codes in column INT., ATA Common Support Data Dictionary (CSDD), Chapter 2.

E. PARTS TO BE RE-IDENTIFIED BY OPERATOR

Reidentified part set REIDD01

ITEM	NEW PART N°	KEYWORD	ITEM	OLD PART N°	REMARK
1	749A0000-02	CHAMBER	(1)	749A0000-02	(1)
2	2056A0000-02	CHAMBER	(2)	2056A0000-02	(1)
3	2056B0000-01	CHAMBER	(3)	2056B0000-01	(1)

NOTE: REIDD01 is necessary for the installation of modified plenum chambers.

NOTE: For definitions of interchangeability codes in column INT., ATA Common Support Data Dictionary (CSDD), Chapter 2.

NOTE (1): For the amendment of the Part Number of the plenum chamber after modification, refer to the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletins No. 2056B-21-01 and 2301A-21-03.

F. TOOLING

None

3. ACCOMPLISHMENT INSTRUCTIONS

Task 211180-831-848-001 - MODIFICATION

WARNING: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND THE 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.

Task Associated Data

Zone	100 190 191 192 210
Modified FIN	10HM5 11HM5
Manpower	
TOTAL MANHOURS	12.00
ELAPSED TIME (HOURS)	7.00

A. GENERAL

(1) Subtask 211180-910-201-001 - Standard practices

Manpower Resources	
Skills	NON SPECIFIC
References	
Aircraft Maintenance Manual (AMM)	06-20-00, Page Block 001 06-31-53, Page Block 001

(a) For the identification of aircraft zones AMM 06-20-00, Page Block 001.

(b) For the identification of Frames (FR), AMM 06-31-53, Page Block 001.

(2) Subtask 211180-839-201-001 - Documentation

Manpower Resources	
Skills	NON SPECIFIC

(a) Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

B. PREPARATION

(1) Subtask 211180-869-201-001 - Aircraft grounding

Work Zones and Access Panels		
	Zone	Access/Work location
	100	

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 12-34-24-869-002

(a) Make sure that the aircraft is electrically grounded AMM Task 12-34-24-869-002.

(2) Subtask 211180-861-201-001 - Energize electrical network.

Work Zones and Access Panels		
	Zone	Access/Work location
	100	
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 24-41-00-861-002

(a) Energize the aircraft electrical circuits AMM Task 24-41-00-861-002.

(3) Subtask 211180-869-202-001 - Job set-up

Work Zones and Access Panels		
	Zone	Access/Work location
	210	
	190	

Manpower Resources	
Skills	ELECTRICAL AIRFRAME

(a) On the cockpit overhead panel, FIN 30VU,

1 make sure that:

- a the APU BLEED pushbutton switch is in the OFF position (the ON legend is off) and,
- b the ENG 1 BLEED and the ENG 2 BLEED pushbutton switches are in the OFF position (the OFF legends are on).

2 Put a WARNING notice in position to tell persons not to operate these pushbutton switches.

(b) On the HP ground connector, FIN 7300HM, put a WARNING notice in position to tell persons not to supply the ground air.

- (4) Subtask 211180-865-201-001 - C/B opening

Work Zones and Access Panels		
	Zone	Access/Work location
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-000-001

- (a) Open, safety and tag the applicable circuit breakers AMM Task 21-52-22-000-001.

- (5) Subtask 211180-010-201-001 - Get access

Work Zones and Access Panels			
	Zone	Access/Work location	
	191	Work location	from Frame 36 to Frame 41
	192	Work location	from Frame 36 to Frame 41

Manpower Resources	
Skills	AIRFRAME

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-000-001

- (a) Remove the applicable access panels to get access to the air-conditioning packs AMM Task 21-52-22-000-001.

C. PROCEDURE

- (1) Subtask 211180-831-203-001 - Replace the plenum chambers by modified parts.

Work Zones and Access Panels			
	Zone	Access/Work location	
	191	Work location	from Frame 36 to Frame 41
	192	Work location	from Frame 36 to Frame 41

Manpower Resources	
Manhours	9.00
Minimum number of person	1
Subtask elapsed time	4.50
Skills	AIRFRAME

Material necessary to do the job

Reidentified part set REIDD01					
ITEM	NEW PART N°	KEYWORD	ITEM	OLD PART N°	REMARK
1	749A0000-02	CHAMBER	(1)	749A0000-02	
2	2056A0000-02	CHAMBER	(2)	2056A0000-02	
3	2056B0000-01	CHAMBER	(3)	2056B0000-01	

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-000-001 Task 21-52-22-400-001
Vendor Service Bulletin (VSB)	LIEBHERR-AEROSPACE LINDENBERG 2056B-21-01 LIEBHERR-AEROSPACE LINDENBERG 2301A-21-03
Fig. A-GBAAA	Sheet 01 - Location of the plenum chambers, FIN 10HM5 and 11HM5.

- (a) Remove the plenum chambers from the air-conditioning pack 1 and 2, AMM Task 21-52-22-000-001 and [Fig. A-GBAAA Sheet 01](#):

1 Remove from the air-conditioning pack 1 (FIN 10HM):

FIN 10HM5

1	Chamber-Air Plenum	749A0000-02	Item (1)	Retain
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or:

FIN 10HM5

1	Chamber-Air Plenum	2056A0000-02	Item (2)	Retain
---	--------------------	--------------	----------	--------

or:

FIN 10HM5

1	Chamber-Air Plenum	2056B0000-01	Item (3)	Retain
---	--------------------	--------------	----------	--------

2 Remove from the air-conditioning pack 2 (FIN 11HM):

FIN 11HM5

1	Chamber-Air Plenum	749A0000-02	Item (1)	Retain
---	--------------------	-------------	----------	--------

or:

FIN 11HM5

1	Chamber-Air Plenum	2056A0000-02	Item (2)	Retain
---	--------------------	--------------	----------	--------

or:

FIN 11HM5

1	Chamber-Air Plenum	2056B0000-01	Item (3)	Retain
---	--------------------	--------------	----------	--------

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- (b) Send the removed plenum chambers with PN 749A0000-02 or 2056A0000-02 or 2056B0000-01 to LIEBHERR-AEROSPACE LINDENBERG GmbH for modification.

LIEBHERR-AEROSPACE LINDENBERG Service Bulletin No. 2056B-21-01 and LIEBHERR-AEROSPACE LINDENBERG Service Bulletin No. 2301A-21-03.

NOTE: The plenum chambers will be modified with a new diffuser made of aluminum. The PN of the plenum will be amended by the vendor after the modification.

- (c) Install the modified plenum chambers to the air-conditioning pack 1 and 2 AMM Task 21-52-22-400-001 and [Fig. A-GBAAA Sheet 01](#):

- 1 Install to the air-conditioning pack 1 (FIN 10HM):

FIN 10HM5

1	Chamber-Air Plenum	749A0000-02	Item 1
---	--------------------	-------------	--------

or:

FIN 10HM5

1	Chamber-Air Plenum	2056A0000-02	Item 2
---	--------------------	--------------	--------

or:

FIN 10HM5

1	Chamber-Air Plenum	2056B0000-01	Item 3
---	--------------------	--------------	--------

NOTE: For the Amendment of the Part Number of the plenum chamber after modification, refer to the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletins No. 2056B-21-01 and 2301A-21-03.

- 2 Install to the air-conditioning pack 2 (FIN 11HM):

FIN 11HM5

1	Chamber-Air Plenum	749A0000-02	Item 1
---	--------------------	-------------	--------

or:

FIN 11HM5

1	Chamber-Air Plenum	2056A0000-02	Item 2
---	--------------------	--------------	--------

or:

FIN 11HM5

1	Chamber-Air Plenum	2056B0000-01	Item 3
---	--------------------	--------------	--------

NOTE: For the Amendment of the Part Number of the plenum chamber after modification, refer to the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletins No. 2056B-21-01 and 2301A-21-03.

D. TEST

- (1) Subtask 211180-865-202-001 - C/B closing

Work Zones and Access Panels		
	Zone	Access/Work location
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-400-001

- (a) Remove the safety clips and tags and close the applicable circuit breakers AMM Task 21-52-22-400-001.

- (2) Subtask 211180-710-201-001 - Test

Work Zones and Access Panels		
	Zone	Access/Work location
	190	
	210	

Manpower Resources	
Skills	AIRFRAME

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-400-001

- (a) Do the Test of the Fan Plenum Chamber AMM Task 21-52-22-400-001.

E. CLOSE-UP

- (1) Subtask 211180-942-201-001 - Close-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	191	Work location	from Frame 36 to Frame 41
	192	Work location	from Frame 36 to Frame 41
	210		

Manpower Resources	
Skills	NON SPECIFIC

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Remove the WARNING notices that you have put in place.

(2) Subtask 211180-410-201-001 - Close access

Work Zones and Access Panels			
	Zone	Access/Work location	
	191	Work location	from Frame 36 to Frame 41
	192	Work location	from Frame 36 to Frame 41

Manpower Resources	
Skills	AIRFRAME

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-400-001

- (a) Close the access panels which were removed for the modification AMM Task 21-52-22-400-001.

(3) Subtask 211180-862-201-001 - De-energize electrical network

Work Zones and Access Panels		
	Zone	Access/Work location
	210	
	100	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 24-41-00-862-002

- (a) De-energize the aircraft electrical circuits AMM Task 24-41-00-862-002.

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Task 211180-831-850-001 - MODIFICATION

WARNING: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND THE 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.

Task Associated Data

Zone	100 190 191 192 210
Modified FIN	10HM5 11HM5
Manpower	
TOTAL MANHOURS	12.00
ELAPSED TIME (HOURS)	7.00

A. GENERAL

(1) Subtask 211180-910-202-001 - Standard practices

Manpower Resources	
Skills	NON SPECIFIC
References	
Aircraft Maintenance Manual (AMM)	06-20-00, Page Block 001 06-31-53, Page Block 001

(a) For the identification of aircraft Zones (Z), AMM 06-20-00, Page Block 001.

(b) For the identification of Frames (FR), AMM 06-31-53, Page Block 001.

(2) Subtask 211180-839-202-001 - Documentation

Manpower Resources	
Skills	NON SPECIFIC

(a) Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

B. PREPARATION

(1) Subtask 211180-869-203-001 - Aircraft grounding

Work Zones and Access Panels		
	Zone	Access/Work location
	100	
Manpower Resources		
Skills	NON SPECIFIC	

References	
Aircraft Maintenance Manual (AMM)	Task 12-34-24-869-002

(a) Make sure that the aircraft is electrically grounded AMM Task 12-34-24-869-002.

(2) Subtask 211180-861-202-001 - Energize the electrical network.

Work Zones and Access Panels		
	Zone	Access/Work location
	100	
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 24-41-00-861-002

(a) Energize the aircraft electrical circuits AMM Task 24-41-00-861-002.

(3) Subtask 211180-860-201-001 - Job set-up

Work Zones and Access Panels		
	Zone	Access/Work location
	190	
	210	

Manpower Resources	
Skills	ELECTRICAL AIRFRAME

(a) On the cockpit overhead panel, FIN 30VU,

1 make sure that:

- a the APU BLEED pushbutton switch is in the OFF position (the ON legend is off) and,
- b the ENG 1 BLEED and the ENG 2 BLEED pushbutton switches are in the OFF position (the OFF legends are on).

2 Put a WARNING notice in position to tell persons not to operate these pushbutton switches.

(b) On the HP ground connector, FIN 7300HM, put a WARNING notice in position to tell persons not to supply the ground air.

(4) Subtask 211180-865-203-001 - C/B opening

Work Zones and Access Panels		
	Zone	Access/Work location
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-000-001

(a) Open, safety and tag the applicable circuit breakers AMM Task 21-52-22-000-001.

(5) Subtask 211180-010-202-001 - Get access

Work Zones and Access Panels		
	Zone	Access/Work location
	191	
	192	

Manpower Resources	
Skills	AIRFRAME

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-000-001

(a) Remove the applicable access panels to get access to the air-conditioning packs AMM Task 21-52-22-000-001.

C. PROCEDURE

(1) Subtask 211180-831-204-001 - Replace the plenum chambers by new parts.

Work Zones and Access Panels			
	Zone	Access/Work location	
	191	Work location	from Frame 36 to Frame 41
	192	Work location	from Frame 36 to Frame 41

Manpower Resources	
Manhours	9.00
Minimum number of person	1
Subtask elapsed time	4.50
Skills	AIRFRAME

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

Equipment BFEZ01			
ITEM	NEW PART N°	QTY (UM)	KEYWORD
4	2056C0000-01	2	CHAMBER

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-000-001 Task 21-52-22-400-001

References	
Vendor Service Bulletin (VSB)	LIEBHERR-AEROSPACE LINDENBERG 2301A-21-03
Fig. A-GBAAA	Sheet 01 - Location of the plenum chambers, FIN 10HM5 and 11HM5.

- (a) Remove the plenum chambers from the air-conditioning pack 1 and 2, AMM Task 21-52-22-000-001 and [Fig. A-GBAAA Sheet 01](#):

- 1 Remove from the air-conditioning pack 1 (FIN 10HM):

FIN 10HM5

1	Chamber-Air Plenum	749A0000-02	Item (1)	Discard
---	--------------------	-------------	----------	---------

or:

FIN 10HM5

1	Chamber-Air Plenum	2056A0000-02	Item (2)	Discard
---	--------------------	--------------	----------	---------

or:

FIN 10HM5

1	Chamber-Air Plenum	2056B0000-01	Item (3)	Discard
---	--------------------	--------------	----------	---------

- 2 Remove from the air-conditioning pack 2 (FIN 11HM):

FIN 11HM5

1	Chamber-Air Plenum	749A0000-02	Item (1)	Discard
---	--------------------	-------------	----------	---------

or:

FIN 11HM5

1	Chamber-Air Plenum	2056A0000-02	Item (2)	Discard
---	--------------------	--------------	----------	---------

or:

FIN 11HM5

1	Chamber-Air Plenum	2056B0000-01	Item (3)	Discard
---	--------------------	--------------	----------	---------

- (b) Receive two new plenum chambers with PN 2056C0000-01.

LIEBHERR-AEROSPACE LINDENBERG Service Bulletin No. 2301A-21-03.

NOTE: The new plenum chamber with PN 2056C0000-01 has a diffuser made of aluminum.

- (c) Install the modified plenum chambers to the air-conditioning pack 1 and 2 AMM Task 21-52-22-400-001 and [Fig. A-GBAAA Sheet 01](#):

- 1 Install to the air-conditioning pack 1 (FIN 10HM):

FIN 10HM5

1	Chamber-Air Plenum	2056C0000-01	Item 4	
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2 Install to the air-conditioning pack 2 (FIN 11HM):

FIN 11HM5

1 Chamber-Air Plenum 2056C0000-01 Item 4

D. TEST

(1) Subtask 211180-865-204-001 - C/B closing

Work Zones and Access Panels		
	Zone	Access/Work location
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-400-001

(a) Remove the safety clips and tags and close the applicable circuit breakers AMM Task 21-52-22-400-001.

(2) Subtask 211180-710-202-001 - Test

Work Zones and Access Panels		
	Zone	Access/Work location
	190	
	210	

Manpower Resources	
Skills	AIRFRAME

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-400-001

(a) Do the Test of the Fan Plenum Chamber AMM Task 21-52-22-400-001.

E. CLOSE-UP

(1) Subtask 211180-942-202-001 - Close-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	191	Work location	from Frame 36 to Frame 41
	192	Work location	from Frame 36 to Frame 41
	210		

Manpower Resources	
Skills	NON SPECIFIC

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Remove the WARNING notices that you have put in place.

(2) Subtask 211180-410-202-001 - Close access

Work Zones and Access Panels			
	Zone	Access/Work location	
	191	Work location	from Frame 36 to Frame 41
	192	Work location	from Frame 36 to Frame 41

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 21-52-22-400-001

- (a) Close the access panels which were removed for the modification AMM Task 21-52-22-400-001.

(3) Subtask 211180-862-202-001 - De-energize the electrical network.

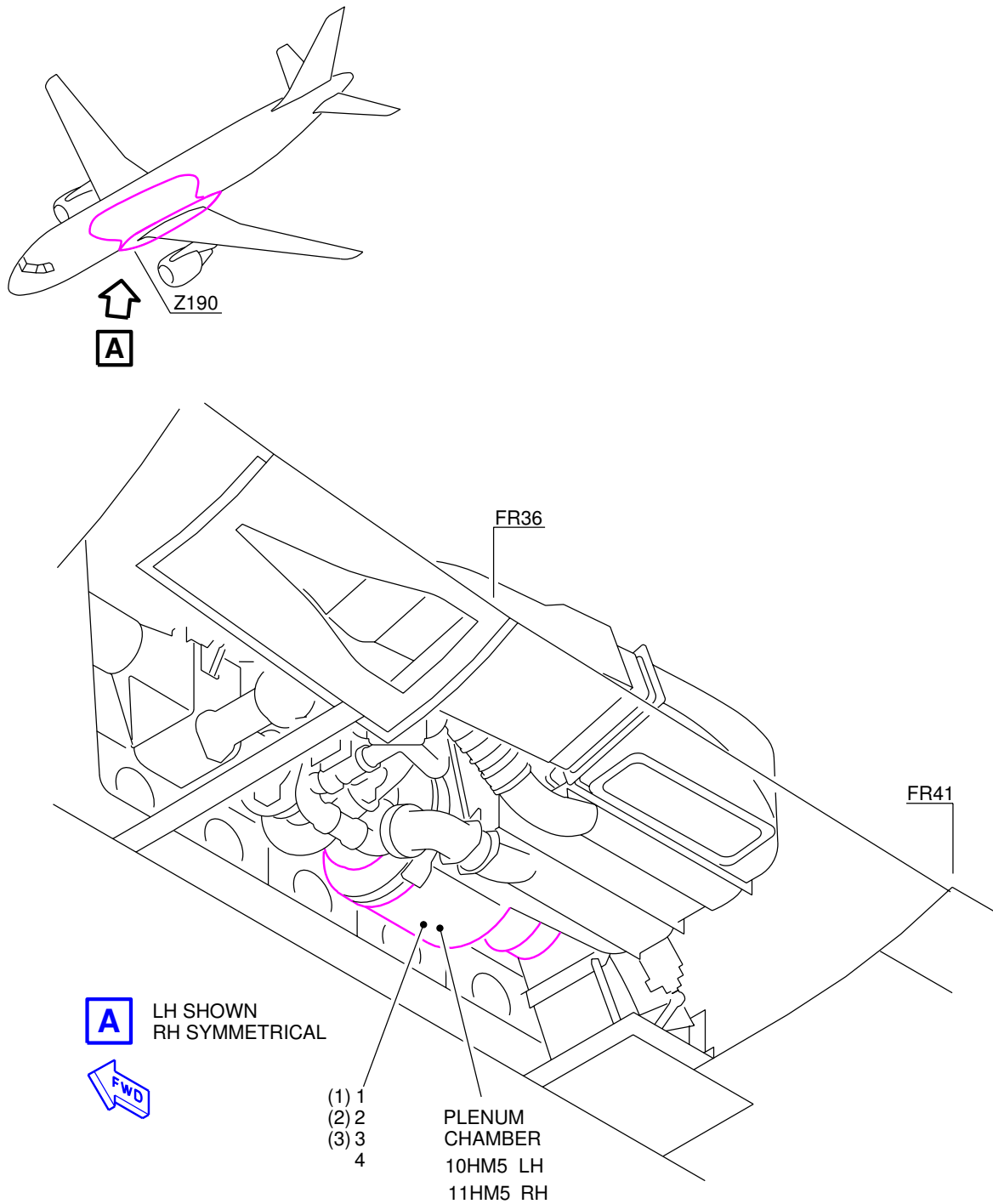
Work Zones and Access Panels		
	Zone	Access/Work location
	100	
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 24-41-00-862-002

- (a) De-energize the aircraft electrical circuits AMM Task 24-41-00-862-002.

****CONF ALL**



N_SB_211180_6_BAAA_01_02

Figure A-GBAAA - Sheet 01
Location of the plenum chambers, FIN 10HM5 and 11HM5.

SERVICE BULLETIN
REPORTING SHEET**TITLE: AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE NEW
PACK PLENUM DIFFUSER**

MODIFICATION No.: 38951K12351

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.

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X References	X Re-identification	X Close-Up
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