#### 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 - FLOW CONTROL AND INDICATING - DELETE

TWO SENSORS PORTS ON 03 & VOC OZONE CONVERTER

#### \*\*CONF ALL

### **MODIFICATIONS**

MODIFICATION CLASSIFICATION					
MAJOR	None				
MINOR	39985K12920	39986K12921			

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

This Service Bulletin has been issued to replace the ozone converters with two pressure sensor ports against ozone converters without pressure sensor ports in the air conditioning system.

This Service Bulletin introduces the installation of the ozone converters BASF PN 20499006 or BASF PN 44018005 in the bleed air supply line.

The accomplishment of this Service Bulletin will save weight.

#### **GENERAL EVALUATION**

EVALUATION TABLE				
COMPLIANCE	DESIRABLE	CANCELS INSPECTION SB	NO	
POTENTIAL AD	NO	A/C OPERATION AFFECTED	NO	
RELIABILITY AFFECTED	NO	PAX COMFORT AFFECTED	NO	
COST SAVING	YES	ETOPS AFFECTED	NO	
STRUCTURAL LIFE EXTN	NO	VENDOR SB INVOLVED	NO	

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#### SERVICE BULLETIN SUMMARY

### **MATERIAL PRICE INFORMATION**

### \*\*CONF 001

MATERIAL PRICE INFORMATION TABLE				
MATERIAL SET	QTY PER A/C	PRICE PER A/C (USD)	MAIN PARTS	
Kit 211190D01R00	1	11,920.00	Ozone Converter	

### \*\*CONF 002

MATERIAL PRICE INFORMATION TABLE				
MATERIAL SET	QTY PER PRICE PER A/C (USD)		MAIN PARTS	
Kit 211190D02R00	1	14,770.00	Ozone Converter	

### **EFFECTIVITY**

### \*\*CONF ALL

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

17W	27V	47W	51U	52W	53U	79W	80X	91X	95W	99W	AAF	AAR
ABQ	ABY	AEE	AHY	AIJ	AJM	AMC	AVA	BAB	BEC	BER	BGF	BHP
BIE	BKP	BMA	BTV	CCA	CEB	CEF	CQH	CQN	CSA	CSC	CSN	CSZ
CYP	DKH	DRA	EIN	ETD	FFT	G8E	GFA	GWI	HMS	HVN	IAC	IWD
IZM	JBU	JET	JSA	JST	KBR	KFR	KNE	KZR	LAN	LBT	LBY	LTU
LZB	MAC	MDL	MEA	MLM	MXA	NKS	NLY	ORF	PAL	QTR	RJA	RKM
RNV	SBI	SFJ	SUD	SVW	TAE	TAI	TAM	TAP	TGW	THY	UEA	UKN
USA	VIM	VLE	VLG	VOI	VRD	WAN	WHT	WVL	WZZ			

### **CONCURRENT REQUIREMENTS**

None

### **REFERENCES / REPERCUSSIONS**

TFU	None
OEB	None
AOT	None
SIL	21-144
LINE MAINTENANCE AFFECTED	No
LIFE LIMIT	None
OTHER	None

### **NATURE OF THE WORK**

AIRCRAFT	YES
EQUIPMENT	YES
HARD	NO
SOFT	NO

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## SERVICE BULLETIN SUMMARY

0.0014	Tue
OBRM	INO
0 = 1	

### **MANPOWER**

### \*\*CONF 001

Task 211190-831-848-001: Modification		
TOTAL MANHOURS	5.00	
ELAPSED TIME (HOURS)	4.50	

### \*\*CONF 002

Task 211190-831-848-001: Modification		
TOTAL MANHOURS	5.00	
ELAPSED TIME (HOURS) 4.50		

## **APPENDICES**

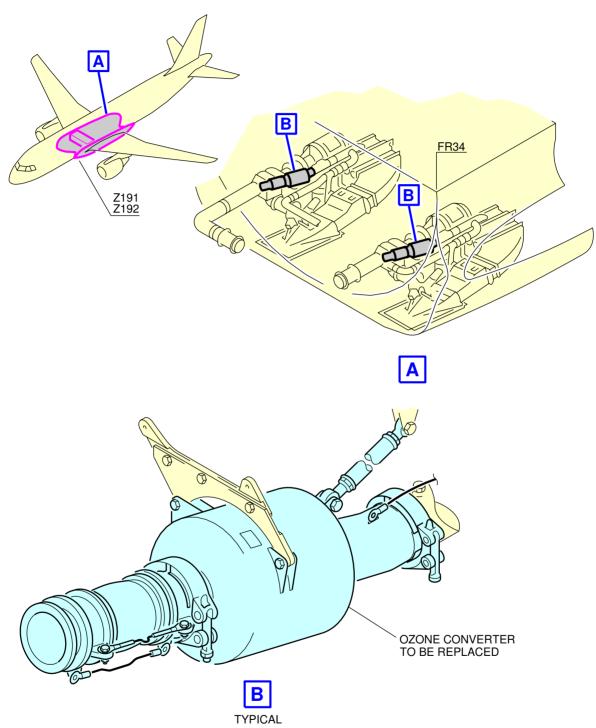
### \*\*CONF ALL

None

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### \*\*CONF ALL



N\_SB\_211190\_6\_SAAA\_01\_00

Figure A-GSAAA - Sheet 01

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AIRBUS
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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 - FLOW CONTROL AND INDICATING - DELETE TWO SENSORS PORTS ON 03 & VOC OZONE CONVERTER

MODIFICATION No.: 39985K12920 39986K12921

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### 1. PLANNING INFORMATION

### \*\*CONF ALL

#### A. EFFECTIVITY

(1) Models

318-111 318-112 318-121 319-111 319-112 319-115 319-131 319-132 319-133 320-214 320-232 320-233 321-211 321-231 321-232

(2) Effectivity by MSN

1599 1660 1939 1991 2017 2051 2218 2276-2277 2296 2328 2333 2335 2354 2358 2361-2362 2366-2367 2376-2377 2383 2392 2394-2396 2400-2401 2404 2406 2413-2414 2417 2419 2423-2424 2431 2433-2434 2439-2441 2443-2444 2448 2452-2453 2457 2465 2467-2468 2470 2473 2476 2483-2485 2487 2490 2496-2497 2502 2506 2511 2513 2516 2518-2519 2523 2529 2539-2541 2544-2546 2551-2555 2558-2560 2566-2567 2571-2572 2574-2575 2579 2585 2588 2590 2592-2593 2596 2598 2602-2604 2607 2609-2610 2614 2616 2619-2620 2622-2624 2626 2628-2629 2631-2632 2637 2643 2645 2648-2650 2653-2655 2657-2662 2665-2668 2673-2674 2676 2678-2680 2685 2687-2689 2692 2694-2698 2700-2701 2704 2707-2708 2711-2714 2718-2720 2723 2730-2732 2734 2737-2741 2743 2745 2747-2749 2751-2753 2758-2759 2761-2764 2767-2768 2770-2774 2778 2780 2783-2786 2788-2791 2793-2794 2796-2801 2804-2806 2808-2809 2811 2813 2815 2819-2821 2823-2824 2828 2830-2831 2833-2840 2845-2847 2849 2851-2853 2855 2857-2859 2861-2862 2864-2865 2867-2868 2872 2874 2876-2879 2886-2887 2890-2894 2896 2898-2899 2901-2902 2904-2905 2910 2913 2915 2917 2921-2922 2924-2925 2928-2930 2934-2936 2939-2943 2948-2950 2953-2954 2960 2962-2964 2968-2969

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#### SERVICE BULLETIN

2971 2974-2976 2978-2979 2981 2983-2988 2991 2993-2994 2997 2999 3001-3002 3005-3007 3010-3015 3017 3019-3028 3030-3033 3035 3037-3038 3040 3042-3049 3055-3058 3060 3062 3066-3069 3071 3074-3075 3077 3083 3085 3089 3093-3095 3097 3101 3103 3105 3107-3108 3110-3114 3116 3120-3121 3123-3126 3128-3129 3131 3133 3135-3136 3138-3139 3141-3142 3144 3152-3153 3155-3156 3158 3161 3163-3165 3167 3171-3172 3175 3180-3181 3185 3188 3193 3195-3196 3198-3200 3202 3204-3205 3207-3208 3210-3211 3214-3218 3221-3222 3226 3229-3230 3234 3238-3246 3248 3250-3253 3257-3258 3260 3264 3266 3268-3270 3272 3274 3276 3278-3280 3283-3285 3289 3293-3294 3297 3303-3304 3309 3311 3313 3315 3317-3319 3321 3324-3325 3330-3331 3337 3341-3342 3345-3347 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 3506-3507 3509-3510 3512 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 3658-3664 3667-3669 3671-3672 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 3865-3866 3868-3869 3878-3880

#### (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
17W	3046
27V	3826
47W	3164
51U	3617
52W	3243
53U	3142 3252 3317
79W	3751
80X	2748
91X	2837
95W	2949
99W	3038
AAF	2296 3852
AAR	2808 2840 2943 3244 3297 3437 3483 3496 3641
ABQ	3385 3388
ABY	2712 2764 2930 2964 3044 3152 3218 3444 3476 3626 3802 3840
AEE	3033 3066 3074 3365 3392 3423 3439 3462 3478 3526 3527 3709
	3714 3745 3753 3773 3785 3820 3829 3850 3878
AHY	2487 2516 2588 2788

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OPERATOR	MSN
AlJ	3667 3690
AJM	3331
AMC	2665 2768 3056 3068
AVA	3408 3467 3518 3647 3664 3691
BAB	2700 2763 3861
BEC	3199
BER	2383 2467 2468 2685 2696 2820 2835 2846 2853 2865 3093 3121
	3202 3242 3245 3289 3346 3415 3422 3447 3516 3586 3661 3689
DOE	3700 3704 3708 3728 3749 3865
BGF	3139 3188
BHP	2968 2991 3006 3021 3055 3604
BIE	2707
BKP	3421 3424 3454 3694 3759
BMA	2441 2653 2694 2697 2720 2799 2981 3049 3512
BTV	2648 2660
CCA	2545 2551 2559 2614 2643 2805 2819 2839 2847 2890 3195 3200
	3226 3250 3337 3461 3601
CEB	2419 2439 2786 2790 2821 2831 2852 2876 2994 3048 3272 3433
	3472 3487 3646 3762 3767
CEF	2801 3085
CQH	2939 3014 3023 3747 3819
CQN	3836
CSA	2719 2758 2789 3031 3043 3060 3094 3097 3406 3436 3452 3660
CSC	2396 2431 3114 3116 3124 3158 3167 3196 3210 3386 3449 3583
	3591 3680 3730
CSN	2354 2361 2484 2506 2511 2519 2541 2546 2554 2555 2558 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
CSZ	2905 2935 3131 3153 3366 3440 3456 3599
CYP	2718
DKH	2879 2913 2975 3027 3234 3268 3368 3485 3596 3605
DRA	2849 2891 2985 3285
EIN	3129 3136 3318 3345 3501 3857
ETD	3693 3713
FFT	1660 1939 1991 2017 2051 2218 2276 2392 2400 2406 2448 2465
	2483 2497 2518 2751 2806 2836 2857 3110 3163 3389 3431
G8E	2762 3215 3221 3506
GFA	3706
GWI	2607 2628 2632 2813 2833 2976 3011 3128 3172 3193 3352 3358
	3375 3500 3534 3839 3841
HMS	3309 3564
HVN	2974 3005 3013 3022 3198 3315 3355 3600 3737 3862
IAC	2593 2624 2629
IWD	2745 3758 3868
L	1

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OPERATOR	MSN
IZM	2404 2414 2452
JBU	3381 3416 3451 3479 3488 3517 3554 3572 3622 3659 3707 3724
020	3760 3800 3811
JET	2424 2698 2723
JSA	2395 2401 2604
JST	2423 2453 2457 3474 3495 3547 3668 3743 3783
KBR	3171
KFR	2366 2376 2413 2443 2496 2502 2645 2650 2676 2731 2747 2753
	2874 2922 3012 3089 3105 3120 3270
KNE	3238 3361 3396 3425 3475 3787 3817
KZR	2828 2987 3141 3484 3519 3614
LAN	2572 2585 2845 2858 2864 2872 2886 2887 2892 2894 3001 3030
	3062 3214 3216 3280 3319 3371 3390 3438 3469 3509 3535 3556
	3585 3602 3606 3635 3642 3663 3671 3770 3772 3779
LBT	3480
LBY	2335
LTU	2539 2619 2654
LZB	2540 2596 3028 3780
MAC	3246 3809 3833
MDL	2784 2797 3264 3330
MEA	3736 3804 3837
MLM	2592 2910 3356 3363
MXA	2328 2333 2358 2367 2377 2394 2523 2544 2552 2575 2662 3123
NKS	3304 3374 3790   2433 2470 2473 2476 2485 2490 2560 2567 2590 2603 2622 2673
INNO	2679 2704 2711 2893 2898 2929 2942 2963 2978 2983 3007 3017
	3026 3165 3393 3395
NLY	2529 2668 2749 2867 2902 3019 3407 3504 3830
ORF	2566
PAL	2878 2925 2954 3107 3108 3205
QTR	3071 3274 3369 3397 3636 3669
RJA	2598 2649 2692 2730 2793 2953 3428 3458 3522 3685 3803 3832
RKM	1599
RNV	2277 2362 3492 3834
SBI	2623 3446 3473 3490 3494 3866 3880
SFJ	2620 2658 2695 3025
SUD	3040
SVW	2921 3133 3542 3856
TAE	2659
TAI	2434 2444 2553 2610 2687 2791 2862 2917 3042 3057 3103 3113
	3248 3276 3378 3418 3510 3538 3577 3581 3869
TAM	2417 2513 2602 2661 2734 2737 2783 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
TAD	3630 3658 3662 3710 3727 3733 3750 3761 3816
TAP	3769

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OPERATOR	MSN
TGW	3757 3801
THY	2609 2626 2631 2655 2738 2739 2823 2868 2928 2934 2941 2984
	2999 3010 3015 3126 3185 3207 3208 3239 3257 3283 3303 3341
	3350 3405 3429 3525 3539 3558 3567 3603 3654 3718 3719
UEA	2774 3024
UKN	3260
USA	3584 3629 3633 3712 3740 3796 3858 3879
VIM	2732 2804 3125
VLE	3138 3161
VLG	2678 2761 2785 2794 2798 2962 2988 3083 3095 3293 3321 3529
VOI	2657 2666 2771 2780 2979 2997 3045 3069 3077 3175 3253 3279
	3450 3463 3491 3590 3624 3672 3705
VRD	2616 2674 2740 2773 2778 2800 2811 2830 2851 2993 3037 3101
	3135 3155 3181 3204 3230 3324 3347 3359 3398 3417 3445 3460
	3465 3503 3684 3686
WAN	3739 3791
WHT	2440
WVL	2571
WZZ	2688 2752

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## SERVICE BULLETIN

## (4) Configuration by MSN

MSN	CONFIGURATION
1599 1660 1939 1991 2017 2051 2218 2276 2277 2296 2328	001
2333 2335 2354 2358 2361 2362 2367 2377 2383 2392 2394	
2395 2396 2400 2401 2404 2406 2413 2414 2419 2423 2424	
2431 2433 2434 2439 2441 2443 2444 2448 2452 2453 2457	
2465 2467 2468 2470 2473 2476 2483 2484 2485 2487 2490	
2496 2497 2502 2506 2511 2513 2516 2518 2519 2523 2529	
2539 2540 2541 2544 2545 2546 2551 2552 2553 2554 2555	
2558 2559 2560 2567 2571 2572 2574 2575 2579 2585 2588	
2590 2592 2593 2596 2598 2603 2604 2607 2610 2614 2616	
2619 2620 2622 2623 2624 2628 2629 2631 2632 2637 2643	
2645 2648 2649 2650 2653 2654 2655 2657 2658 2659 2660	
2661 2662 2665 2666 2667 2668 2673 2674 2676 2678 2679	
2680 2685 2687 2688 2689 2692 2694 2695 2696 2697 2698	
2700 2701 2704 2707 2708 2711 2712 2713 2714 2718 2720	
2723 2730 2731 2734 2737 2738 2739 2740 2741 2743 2745	
2747 2748 2749 2751 2752 2753 2759 2761 2762 2763 2764	
2767 2768 2770 2771 2772 2773 2774 2778 2780 2783 2784	
2785 2788 2791 2793 2794 2796 2797 2798 2799 2800 2804	
2805 2806 2808 2809 2811 2813 2815 2819 2820 2824 2828	
2830 2833 2834 2835 2836 2837 2838 2839 2840 2845 2846	
2847 2849 2851 2853 2855 2857 2858 2859 2861 2862 2864	
2865 2867 2872 2874 2877 2878 2879 2886 2887 2890 2891	
2892 2893 2894 2896 2898 2899 2901 2902 2904 2905 2910	
2913 2915 2917 2921 2922 2924 2925 2929 2930 2935 2936	
2939 2940 2942 2943 2948 2950 2953 2954 2960 2962 2963	
2964 2968 2969 2971 2974 2975 2976 2978 2979 2981 2983	
2985 2986 2987 2988 2991 2993 2997 3001 3002 3005 3006	
3007 3011 3012 3013 3014 3017 3019 3020 3021 3022 3023	
3024 3025 3026 3027 3028 3030 3032 3033 3035 3037 3038	
3040 3042 3044 3045 3047 3049 3055 3056 3057 3058 3062	
3066 3067 3068 3069 3071 3074 3075 3077 3083 3089 3093	
3095 3101 3103 3105 3107 3108 3110 3111 3112 3113 3114	
3116 3120 3121 3123 3124 3125 3128 3129 3131 3133 3135	
3136 3138 3139 3141 3142 3144 3152 3153 3155 3156 3158	
3161 3163 3164 3165 3167 3171 3172 3175 3180 3181 3188	
3193 3195 3196 3198 3199 3200 3202 3204 3205 3210 3211	
3214 3215 3216 3218 3221 3222 3226 3229 3230 3234 3238	
3240 3242 3243 3244 3245 3246 3248 3250 3252 3253 3258	
3264 3266 3268 3269 3270 3274 3276 3278 3279 3280 3284	
3285 3289 3293 3294 3297 3304 3309 3311 3313 3315 3317	
3318 3319 3321 3324 3325 3330 3331 3337 3342 3345 3346	
3347 3352 3355 3356 3358 3359 3361 3363 3365 3366 3368	
3369 3371 3374 3375 3378 3385 3386 3388 3389 3390 3391	
3392 3393 3395 3396 3397 3398 3407 3408 3415 3417 3418	
3421 3422 3423 3424 3425 3428 3431 3437 3438 3439 3440	
3444 3445 3446 3447 3449 3450 3454 3456 3458 3460 3461	
3462 3463 3465 3467 3469 3473 3474 3475 3476 3478 3480	
3483 3484 3485 3490 3491 3492 3494 3495 3496 3500 3501	
3503 3504 3506 3509 3510 3512 3516 3518 3519 3522 3526	

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					MS	N					CONFIGURATION
3527	3529	3534	3535	3538	3540	3542	3547	3556	3564	3565	001
3577 :											
3596											
3626											
3662											
3686											
3710		•	•								
3743		•									
3769	-	_		-							
3796											
3830											
3857											
2366			_					_	_		002
2786											
2934	-										
3048											
3241				_							
3406								•			
3488											
3572											
3707				_		3/62	3/64	3/6/	3/84	3800	
3811	3826	3828	3836	3847	3860						

### (5) Configuration definition

### \*\*CONF 001

Config. 001 is valid for all the aircraft given in the effectivity on which Mod. No. 31263K7216 is embodied or Service Bulletin No. A320-21-1183 is accomplished.

### \*\*CONF 002

Config. 002 is valid for all the aircraft given in the effectivity on which Mod. No. 34448K9405 is embodied.

## (6) Material Effectivity

### \*\*CONF 001

MATERIAL	QTY PER A/C	SEE NOTES
Kit 211190D01R00	1	
Consumable CMLD01	1	

### \*\*CONF 002

MATERIAL	QTY PER A/C	SEE NOTES
Kit 211190D02R00	1	
Consumable CMLD01	1	

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### SERVICE BULLETIN

#### \*\*CONF ALL

### **B. CONCURRENT REQUIREMENTS**

None

### C. REASON

(1) History

This Service Bulletin has been issued to replace the ozone converters with two pressure sensor ports against ozone converters without pressure sensor ports in the air conditioning system.

(2) Objective/Action

This Service Bulletin introduces the installation of the ozone converters BASF PN 20499006 or BASF PN 44018005 in the bleed air supply line.

(3) Advantages

The accomplishment of this Service Bulletin will save weight.

(4) Operational/Maintenance Consequences

None

### D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to:

#### \*\*CONF 001

Task 211190-831-848-001: Modification

(1) Replace the ozone converters 100HM and 101HM.

#### \*\*CONF 002

Task 211190-831-848-001: Modification

(1) Replace the ozone converters 100HM and 101HM.

### \*\*CONF ALL

#### E. COMPLIANCE

(1) Classification

**DESIRABLE** 

(2) Accomplishment Timescale

In accordance with operators' maintenance schedule.

6 DATE: Feb 15/10 SERVICE BULLETIN No.: A320-21-1190

#### SERVICE BUILLETIN

#### 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.

#### \*\*CONF 001

Task 211190-831-848-001: Modification				
Get Access	1.00			
On Aircraft				
Replace the ozone converters 100HM and 101HM.	2.00			
Tests	1.00			
Close-Up	1.00			
TOTAL MANHOURS	5.00			
ELAPSED TIME (HOURS)	4.50			

#### \*\*CONF 002

Task 211190-831-848-001: Modification				
Get Access	1.00			
On Aircraft				
Replace the ozone converters 100HM and 101HM.	2.00			
Tests	1.00			
Close-Up	1.00			
TOTAL MANHOURS	5.00			
ELAPSED TIME (HOURS)	4.50			

#### \*\*CONF ALL

### 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 item's. For the definition of MEW and operator's items refer to Weight and Balance Manual (WBM) Chapter 1-00-07.

Only for aircraft model A318		
Manufactures Empty Weight	-0.34 KG	-0.7496 LB

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### SERVICE BULLETIN

Effect on Balance	-4.593 KGM	-33.231 LB.FT				
Only for aircraft model A319						
Manufactures Empty Weight	-0.34 KG	-0.7496 LB				
Effect on Balance	-4.862 KGM	-35.175 LB.FT				
Only for aircraft model A320						
Manufactures Empty Weight -0.34 KG -0.7496 LB						
Effect on Balance	-5.406 KGM	-39.110 LB.FT				
Only for aircraft model A321						
Manufactures Empty Weight	Manufactures Empty Weight -0.34 KG -0.7496 LB					
Effect on Balance -6.858 KGM -49.613 LB.FT						

## I. ELECTRICAL LOAD DATA

Not Changed

## J. <u>REFERENCES</u>

### \*\*CONF 001

Aircraft Maintenance Manual (AMM)	06-41-53	12-34-24	20-28-00
	21-51-41	24-41-00	53-35-13
Consumable Material List (CML)			
ATA Common Support Data Dictionary (CSDD),			
Chapter 2			
Elec. Std. Practices Manual (ESPM)	20-55-00		
Weight and Balance Manual (WBM)	Weight and Balance Manual		
	(WBM) Chapter 1-00-07		

### \*\*CONF 002

Aircraft Maintenance Manual (AMM)	06-41-53 21-51-41	12-34-24 24-41-00	20-28-00 53-35-13
Consumable Material List (CML)			
ATA Common Support Data Dictionary (CSDD), Chapter 2			
Elec. Std. Practices Manual (ESPM)	20-55-00		
Weight and Balance Manual (WBM)		d Balance Ma apter 1-00-0	

### \*\*CONF ALL

## K. PUBLICATION AFFECTED

Aircraft Maintenance Manual (AMM)	21-00-00	21-51-00	21-51-41
	21-51-51	21-52-00	21-61-17
Illustrated Parts Catalog (IPC)	11-37-21	21-51-03	21-51-41

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#### SERVICE BULLETIN

#### L. INTERCHANGEABILITY/MIXABILITY

### \*\*CONF 001

DESCRIPTION	OLD PART N°	NEW PART N°	INT	MIXABILITY	SEE NOTES
Filter-Ozone	20499005	20499006	02	YES	(1) (2)

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

Common Support Data Dictionary (CSDD), Chapter 2.

NOTE: Only the mixability configuration(s) and condition(s) stated in this Service

Bulletin are approved.

NOTE (1): NOTE: Interchangebility code 02 if Mod. 30626 is installed.

NOTE (2): NOTE: Interchangebility code 03 if Mod. 30626 is not installed.

#### \*\*CONF 002

DESCRIPTION	OLD PART N°	NEW PART N°	INT	MIXABILITY	SEE
					NOTES
Filter-Ozone	44018004	44018005	02	YES	(1) (2)

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

Common Support Data Dictionary (CSDD), Chapter 2.

NOTE: Only the mixability configuration(s) and condition(s) stated in this Service

Bulletin are approved.

NOTE (1): NOTE: Interchangebility code 02 if Mod. 30626 is installed.

NOTE (2): NOTE: Interchangebility code 03 if Mod. 30626 is not installed.

#### \*\*CONF ALL

#### M. SPARES

Filter-Ozone 20499005 Filter-Ozone 44018004

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SERVICE BULLETIN

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#### SERVICE BULLETIN

#### 2. MATERIAL INFORMATION

#### \*\*CONF ALL

#### A. MATERIAL - PRICE AND AVAILABILITY

#### (1) Procurement Addresses

Kit 211190D01R00 Kit 211190D02R00	Customers with aircraft shown in the effectivity of this Service Bulletin should send a purchase order to AIRBUS. Quote the number of this Service Bulletin. The address is:  AIRBUS Material, Logistics and Suppliers Weg beim Jaeger 150 D-22335 Hamburg Germany
	For ordering by internet: http://spares.airbus.com
	For SB Kits by fax:+49 40 50 76 25 90 For Spares by fax: +49 40 50 76 40 12

### (2) Price and Availability

Kit 211190D01R00	
Cost	11,920.00 USD
Availability	90 calendar days from receipt of order

The Kit availability given above is the standard lead time from the date of your purchase order. If you require Kits 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 at the issue date of the Service Bulletin.

Kit 211190D02R00	
Cost	14,770.00 USD
Availability	90 calendar days from receipt of order

The Kit availability given above is the standard lead time from the date of your purchase order. If you require Kits 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 at the issue date of the Service Bulletin.

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

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

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#### SERVICE BULLETIN

### C. <u>LIST OF COMPONENTS</u>

Kit 211190D01R00

ITEM	NEW PART N°	QTY (UM)	KEYWORD	ITEM	OLD PART N°	INT	SEE NOTES
1	20499006	2	FILTER	(1)	20499005	02	

NOTE:

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

Kit 211190D02R00

ľ	TEM	NEW PART N°	QTY (UM)	KEYWORD	ITEM	OLD PART N°		SEE NOTES
1	14	44018005	2	ELCINSTL	(14)	44018004	02	

NOTE:

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

### D. LIST OF MATERIALS - OPERATOR SUPPLIED

(1) Consumable Materials

Consumable CMLD01

ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.		SEE NOTES
	Solvent General Purpose	11-026	As required	

(2) Components

None

(3) Equipment

None

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

None

### F. <u>TOOLING</u>

None

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#### SERVICE BUILLETIN

### 3. ACCOMPLISHMENT INSTRUCTIONS

Task 211190-831-848-001 - Modification

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

<u>CAUTION</u>: ALWAYS OBEY THE PRECAUTIONS THAT FOLLOW TO KEEP ELECTRICAL

WIRING IN A SATISFACTORY CONDITION (ELECTRICALLY AND

MECHANICALLY SERVICEABLE).

WHEN YOU DO MAINTENANCE WORK, REPAIRS OR MODIFICATIONS, ALWAYS KEEP ELECTRICAL WIRING, COMPONENTS AND THE WORK AREA

AS CLEAN AS POSSIBLE. TO DO THIS:

- PUT PROTECTION, SUCH AS PLASTIC SHEETING, CLOTHS, ETC; AS

NECESSARY ON ELECTRICAL WIRING AND COMPONENTS

- REGULARLY REMOVE ALL SHAVINGS, UNWANTED MATERIAL AND

OTHER CONTAMINATION.

THESE PRECAUTIONS WILL DECREASE THE RISK OF CONTAMINATION

AND DAMAGE TO THE ELECTRICAL WIRING INSTALLATION.

IF THERE IS CONTAMINATION, ESPM 20-55-00.

#### **Task Associated Data**

### \*\*CONF 001

	Zone		
120 190			
	Access		
Panel	Panel 191BB 191KB 192FB 192KB		
	Manpower		
TOTAL MANHOURS 5.00			
ELAPSED TIME (HO	URS)	4.50	

### \*\*CONF 002

	Zone			
120 190				
	Access			
Panel	Panel 191BB 191KB 192FB 192KB			
Manpower				
TOTAL MANHOURS 5.00				
ELAPSED TIME (HOURS) 4.50				

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#### SERVICE BULLETIN

### \*\*CONF ALL

#### A. GENERAL

#### \*\*CONF 001

#### (1) Subtask 211190-910-201-001 - Standard Practices

	Manpower Resources
Skills	AIRFRAME

#### Material necessary to do the job

Cons	Consumable CMLD01					
ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES		
	Solvent General Purpose	11-026	As required			

References		
Aircraft Maintenance Manual (AMM)	06-41-53, Page Block 001 20-28-00, Page Block 201	
Consumable Material List (CML)		

- (a) Refer to the Consumable Materials List (CML) for the specification of materials (Mat. No.) you must use in this Service Bulletin.
- (b) Install blanking caps on open pipes, ports and electrical connectors.
- (c) Install the bonding connection (Refer to AMM 20-28-00, Page Block 201).
- (d) Clean the related surfaces with:

Solvent General 11-026 As required Purpose

(e) For the location of access panels (Refer to AMM 06-41-53, Page Block 001).

#### (2) Subtask 211190-839-201-001 - Documentation

	Manpower Resources	
Skills		AIRFRAME

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

#### \*\*CONF 002

### (1) Subtask 211190-910-201-001 - Standard Practices

Manpower Resour	rces
Skills	AIRFRAME

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#### SERVICE BULLETIN

Material necessary to do the	e job

Consumable CMLD01					
ITEM	DESCRIPTION	REFERENCE TO	QTY PER A/C	SEE	
		CML MAT. No.		NOTES	
	Solvent General Purpose	11-026	As required		

References		
	06-41-53, Page Block 001 20-28-00, Page Block 201	
Consumable Material List (CML)		

- (a) Refer to the Consumable Materials List (CML) for the specification of materials (Mat. No.) you must use in this Service Bulletin.
- (b) Install blanking caps on open pipes, ports and electrical connectors.
- (c) Install the bonding connection (Refer to AMM 20-28-00, Page Block 201).
- (d) Clean the related surfaces with:

Solvent General

11-026

As required

Purpose

- (e) For the location of access panels (Refer to AMM 06-41-53, Page Block 001).
- (2) Subtask 211190-839-201-001 Documentation

	Manpower Resources
Skills	AIRFRAME

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

#### \*\*CONF ALL

### B. PREPARATION

#### \*\*CONF 001

### (1) Subtask 211190-941-201-001 - Job Set-up

Work Zones and Access Panels				
Zor	ne	Access/Work location		
120				
190	Acce	ess	Panel 191BB, Panel 191KB, Panel 192FB, Panel 192KB	

	Manpower Reso	urces
Skills		AIRFRAME

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Re	eferences
Aircraft Maintenance Manual (AMM)	12-34-24, Page Block 201 21-51-41, Page Block 401 53-35-13, Page Block 401

- (a) Make sure that the aircraft is electrically grounded (Refer to AMM 12-34-24, Page Block 201).
- (b) Open, safety and tag these circuit breaker(s):

(Refer to AMM 21-51-41, Page Block 401).

- (c) On the panel 30VU:
  - 1 Make sure that:
    - the APU BLEED pushbutton switch is in the off position (the ON legend is off)
    - the ENG 1 BLEED and the ENG 2 BLEED pushbutton switches are in the off position (the OFF legends are on).
  - <u>2</u> Put a warning notice in position to tell persons not to operate these 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 53-35-13, Page Block 401).

#### \*\*CONF 002

### (1) Subtask 211190-941-201-001 - Job Set-up

Work Zones and Access Panels				
	Zone	Access/Work location		
	120			
	190	Access	Panel 191BB, Panel 191KB, Panel 192FB, Panel 192KB	

	Manpower Resources
Skills	AIRFRAME

	References
Aircraft Maintenance Manual (AMM)	12-34-24, Page Block 201 21-51-41, Page Block 401 53-35-13, Page Block 401

(a) Make sure that the aircraft is electrically grounded (Refer to AMM 12-34-24, Page Block 201).

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#### SERVICE BULLETIN

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

(Refer to AMM 21-51-41, Page Block 401).

- (c) On the panel 30VU:
  - 1 Make sure that:
    - the APU BLEED pushbutton switch is in the off position (the ON legend is off)
    - the ENG 1 BLEED and the ENG 2 BLEED pushbutton switches are in the off position (the OFF legends are on).
  - <u>2</u> Put a warning notice in position to tell persons not to operate these 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 53-35-13, Page Block 401).

#### \*\*CONF ALL

### C. PROCEDURE

#### \*\*CONF 001

(1) Subtask 211190-960-201-001 - Replace the ozone converters 100HM and 101HM.

	Work Zones and Access Panels
Zone	Access/Work location
120	
190	

Manpower Resource	es
Manhours	2.00
Minimum number of person	2
Subtask elapsed time	1.00
Skills	AIRFRAME

Add to the control of
Material necessary to do the job
Matchai ricocodary to do trio job

Kit 21	1190D01R00			
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
1	20499006	2	FILTER	

R	eferences
Aircraft Maintenance Manual (AMM)	21-51-41, Page Block 401

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#### SERVICE BULLETIN

References		
Sheet 01		
Sheet 02		
Sheet 03		

NOTE: The procedure that follows is applicable to the LH and RH ozone converter installation.

(a) Remove the ozone converters 100HM and 101HM.

(Refer to AMM 21-51-41, Page Block 401)

Remove from the bonding straps, Item (8), as shown in <u>Fig. A-GBAAA Sheet</u> <u>02</u>, Details B and C :

			<u></u> ,	•		
2		Bolt		Item (10)	Retain	
2		Was	sher		Item (11)	Retain
2		Nut			Item (12)	Retain
		2	Remove from the Sheet 02, Details E		tem (1), as s	shown in Fig. A-GBAAA
2		Clar	mp		Item (2)	Retain
2		Clar	mp		Item (9)	Retain
		<u>3</u>	Remove from the r B and C:	rods, Item (7), as sho	wn in <u>Fig. A-C</u>	GBAAA Sheet 02, Details
2		Bolt Item (		Item (4)	Retain	
2		Was	sher		Item (5)	Retain
2		Nut	Nut		Item (6)	Retain
		<u>4</u>	Remove from the Sheet 02, Details E	_	tem (13), as	shown in Fig. A-GBAAA
2		Filte	er-Ozone	20499005	Item (1)	Discard
4		Bolt	Ī		Item (4)	Retain
4		Was	sher		Item (5)	Retain
4		Nut			Item (6)	Retain
	(b)	Inst	all the ozone conver	ters 100HM and 101H	HM.	

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(Refer to AMM 21-51-41, Page Block 401)

### SERVICE BULLETIN

<u>1</u> Put the ozone converters, Item 1, in position on the attachment fittings, Item (13), as shown in <u>Fig. A-GBAAA Sheet 02</u>, Details B and C:

2	Filte	er	20499006	Item 1	
		and install them with	h:		
4	Bolt			Item (4)	Retained at removal
4	Was	sher		Item (5)	Retained at removal
4	Nut			Item (6)	Retained at removal
	<u>2</u>		m (7), on the ozone of Details B and C, with		m 1, as shown in Fig. A-
2	Bolt			Item (4)	Retained at removal
2	Was	sher		Item (5)	Retained at removal
2	Nut			Item (6)	Retained at removal
	<u>3</u>	Examine the conve Sheet 03, Detail D.	erters and sleeves a	lignment as	shown in Fig. A-GBAAA
	<u>4</u>		the rods, Item (7), a		Fig. A-GBAAA Sheet 02,
	<u>5</u>	Install, as shown in	Fig. A-GBAAA Sheet	02, Details E	3 and C:
2	Clar	тр		Item (2)	Retained at removal
		and			
2	Clar	пр		Item (9)	Retained at removal
	<u>6</u>	Tighten the clamps m.daN (48.67 lbf.in.		(9), and tor	que the clamps to 0.55
	<u>7</u>	Connect the bonding Details B and C:	ng straps, Item (8), a	s shown in <u>F</u>	Fig. A-GBAAA Sheet 02,
2	Bolt			Item (10)	Retained at removal

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#### SERVICE BULLETIN

2	Washer	Item (11)	Retained at removal
2	Nut	Item (12)	Retained at removal

#### \*\*CONF 002

(1) Subtask 211190-960-201-002 - Replace the ozone converters 100HM and 101HM.

	Work Zones and Access Panels
Zone	Access/Work location
120	
190	

Manpower Resources				
Manhours	2.00			
Minimum number of person	2			
Subtask elapsed time	1.00			
Skills	AIRFRAME			

## Material necessary to do the job

Kit 21	1190D02R00			
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
14	44018005	2	ELCINSTL	

References			
Aircraft Maintenance Manual (AMM)	21-51-41, Page Block 401		
Fig. A-GBBAA	Sheet 01		
Replacement of the Ozone Converters	Sheet 02		
FIN 100HM and 101HM	Sheet 03		

NOTE: The procedure that follows is applicable to the LH and RH ozone converter installation.

(a) Remove the ozone converters 100HM and 101HM.

(Refer to AMM 21-51-41, Page Block 401)

 $\underline{1}$  Remove from the bonding straps, Item (8), as shown in  $\underline{\text{Fig. A-GBBAA Sheet}}$   $\underline{02}$ , Details B and C :

2	Bolt	Item (10)	Retain
2	Washer	Item (11)	Retain
2	Nut	Item (12)	Retain

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		<u>2</u>	Remove from the Sheet 02, Details E		tem (14), as	shown in <u>Fig. A-GBBAA</u>
2		Cla	mp		Item (2)	Retain
2		Cla	mp		Item (9)	Retain
		<u>3</u>	Remove from the B and C:	rods, Item (7), as sho	own in <u>Fig. A-</u>	GBBAA Sheet 02, Details
2		Bolt	t		Item (4)	Retain
2		Wa	sher		Item (5)	Retain
2		Nut			Item (6)	Retain
		<u>4</u>	Remove from the Sheet 02, Details E	_	Item (13), as	shown in Fig. A-GBBAA
2		Filte	er-Ozone	44018004	Item (14)	Discard
4		Bolt	t		Item (4)	Retain
4		Wa	sher		Item (5)	Retain
4		Nut			Item (6)	Retain
	(b)	Inst	all the ozone conver	ters 100HM and 101	НМ.	
		Ref	er to (Refer to AMM	21-51-41, Page Bloc	k 401)	
		<u>1</u>		verters, Item 14, in p Fig. A-GBBAA Sheet		e attachment fittings, Item and C:
2		Filte	er	44018005	Item 14	
			and install them wi	ith:		
4		Bolt	t		Item (4)	Retained at removal
4		Wa	sher		Item (5)	Retained at removal
4		Nut			Item (6)	Retained at removal
		<u>2</u>		em (7), on the ozone 2, Details B and C, w		tem 14, as shown in Fig.
2		Bolt	t		Item (4)	Retained at removal

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	2	Was	her	Item (5)	Retained at removal
	2	Nut		Item (6)	Retained at removal
		<u>3</u>	Examine the converters and sleeves al Sheet 03, Detail D.	ignment as s	shown in Fig. A-GBBAA
		<u>4</u>	If necessary adjust the rods, Item (7), a Details B and C, and in Fig. A-GBBAA S		
		<u>5</u>	Install, as shown in Fig. A-GBBAA Sheet	02, Details B	and C:
	2	Clan	np	Item (2)	Retained at removal
			and		
	2	Clan	np	Item (9)	Retained at removal
		<u>6</u>	Tighten the clamps, Item (2) and Item m.daN (48.67 lbf.in.).	(9), and toro	que the clamps to 0.55
		<u>7</u>	Connect the bonding straps, Item (8) a Details B and C:	s shown in <u>F</u>	ig. A-GBBAA Sheet 02,
	2	Bolt		Item (10)	Retained at removal
	2	Was	her	Item (11)	Retained at removal
	2	Nut		Item (12)	Retained at removal
VI.	ΕΛΙΙ				

### \*\*CONF ALL

## D. TEST

## \*\*CONF 001

## (1) Subtask 211190-790-201-001 - Leak Check

		Work Zones and Access Panels
	Zone	Access/Work location
	120	
	190	

Ma	anpower Resources
Skills	AIRFRAME

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#### SERVICE BULLETIN

Ref	ferences
` ,	21-51-41, Page Block 401 24-41-00, Page Block 201

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Remove the safety clip(s) and tag(s) and close this (these) circuit breaker(s) (Refer to AMM 21-51-41, Page Block 401).
- (c) Energize the aircraft electrical circuits, (Refer to AMM 24-41-00, Page Block 201).
- (d) Do a leak check of the ozone converters and sense line connectors (Refer to AMM 21-51-41, Page Block 401).

NOTE: Leaks are not permitted.

#### \*\*CONF 002

#### (1) Subtask 211190-790-201-001 - Leak Check

Work Zones and Access Panels		
Zone	Access/Work location	
120		
190		

	Manpower Resour	ces
Skills		AIRFRAME

Ref	erences
` '	21-51-41, Page Block 401 24-41-00, Page Block 201

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Remove the safety clip(s) and tag(s) and close this (these) circuit breaker(s) (Refer to AMM 21-51-41, Page Block 401).
- (c) Energize the aircraft electrical circuits, (Refer to AMM 24-41-00, Page Block 201).
- (d) Do a leak check of the ozone converters and sense line connectors (Refer to AMM 21-51-41, Page Block 401).

NOTE: Leaks are not permitted.

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#### SERVICE BULLETIN

### \*\*CONF ALL

## E. CLOSE-UP

## \*\*CONF 001

### (1) Subtask 211190-942-201-001 - Close-up

Work Zones and Access Panels						
Zone Access/Work location						
120						
190	Access	Panel 191BB, Panel 191KB, Panel 192FB, Panel 192KB				

	Manpower Resources	
Skills	AIRF	RAME

References			
Aircraft Maintenance Manual (AMM)	53-35-13, Page Block 401		

- (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 53-35-13, Page Block 401).
- (c) Remove the warning notices from the panel 30VU and the HP ground connector.

#### \*\*CONF 002

### (1) Subtask 211190-942-201-001 - Close-up

Work Zones and Access Panels						
	Zone	Access/Work location				
	120					
	190	Access	Panel 191BB, Panel 191KB, Panel 192FB, Panel 192KB			

Manpower Resources	
Skills	AIRFRAME

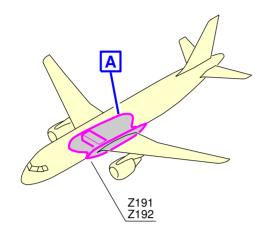
References			
Aircraft Maintenance Manual (AMM)	53-35-13, Page Block 401		

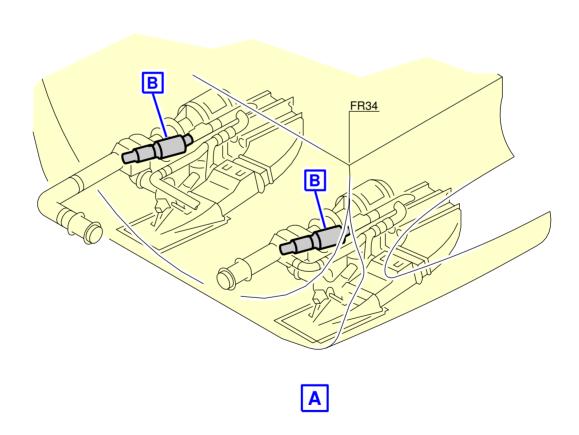
- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Install the access panels 191BB, 191KB, 192FB and 192KB (Refer to AMM 53-35-13, Page Block 401).
- (c) Remove the warning notices from the panel 30VU and the HP ground connector.

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SERVICE BULLETIN

### \*\*CONF 001





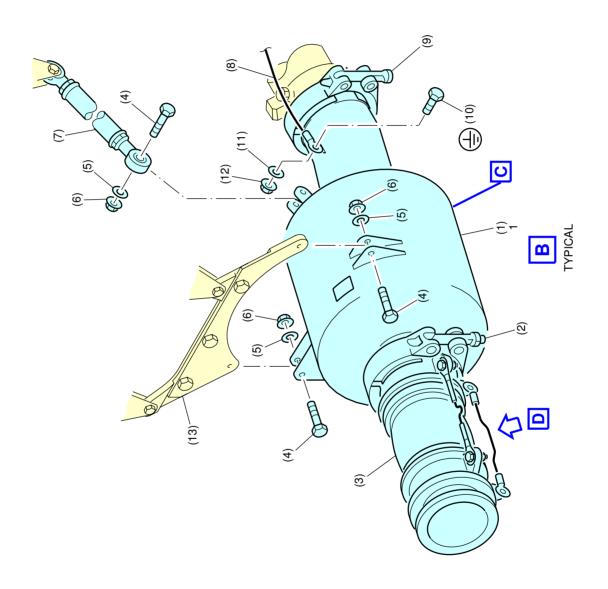
N\_SB\_211190\_6\_BAAA\_01\_00

Figure A-GBAAA - Sheet 01
Replacement of the Ozone Converters FIN 100HM and 101HM

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SERVICE BULLETIN

### \*\*CONF 001



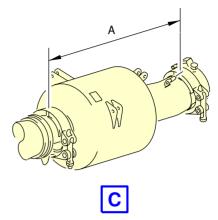
N\_SB\_211190\_6\_BAAA\_02\_00

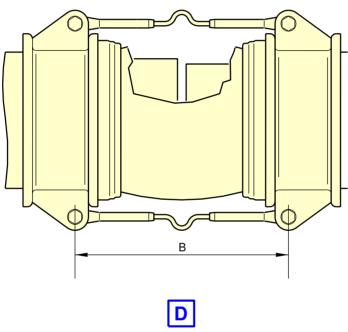
Figure A-GBAAA - Sheet 02
Replacement of the Ozone Converters FIN 100HM and 101HM

6 DATE: Feb 15/10 SERVICE BULLETIN No.: A320-21-1190

SERVICE BULLETIN

### \*\*CONF 001





DIMENSIONS				
	mm	(in.)		
Α	476.0 TO 478.0	18.74 TO 18.82		
В	157.0 TO 164.0	6.18 TO 6.46		

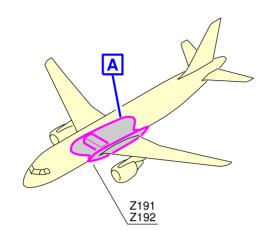
N\_SB\_211190\_6\_BAAA\_03\_00

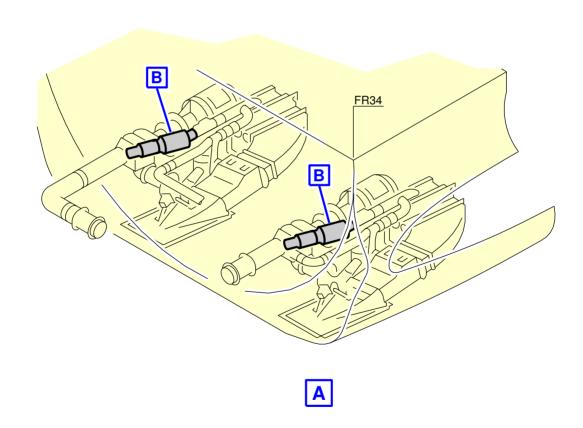
Figure A-GBAAA - Sheet 03 Replacement of the Ozone Converters FIN 100HM and 101HM

6 DATE: Feb 15/10 SERVICE BULLETIN No.: A320-21-1190

SERVICE BULLETIN

### \*\*CONF 002





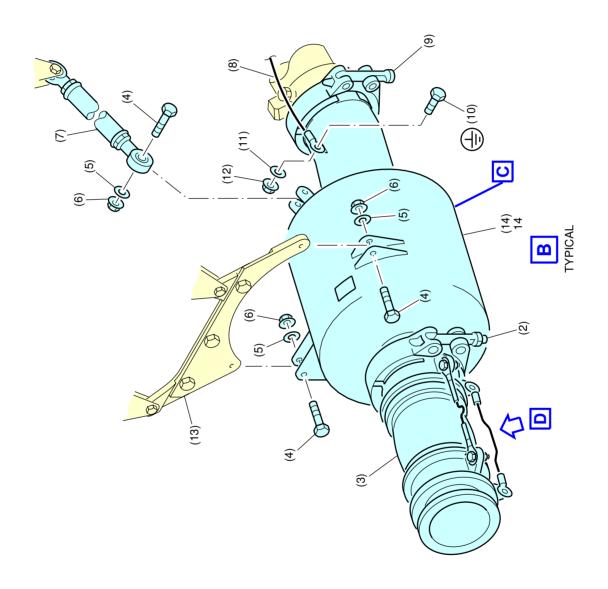
N\_SB\_211190\_6\_BBAA\_01\_00

Figure A-GBBAA - Sheet 01
Replacement of the Ozone Converters FIN 100HM and 101HM

6 DATE: Feb 15/10 SERVICE BULLETIN No.: A320-21-1190

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### \*\*CONF 002



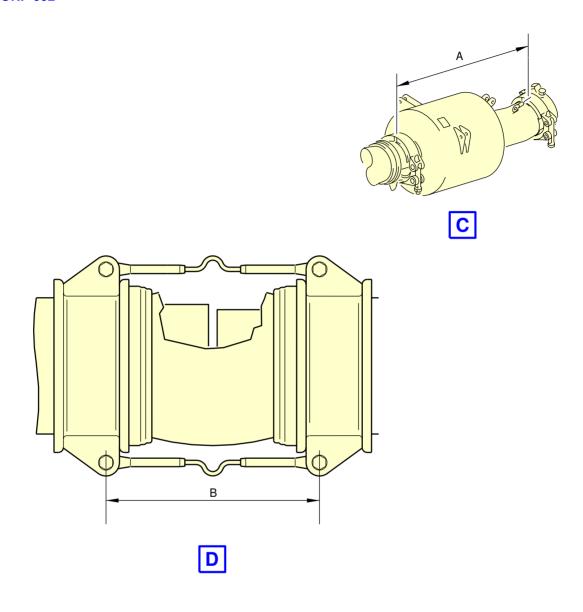
N\_SB\_211190\_6\_BBAA\_02\_00

Figure A-GBBAA - Sheet 02
Replacement of the Ozone Converters FIN 100HM and 101HM

6 DATE: Feb 15/10 SERVICE BULLETIN No.: A320-21-1190

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### \*\*CONF 002



	DIMENSIONS				
	mm	(in.)			
Α	476.0 TO 478.0	18.74 TO 18.82			
В	157.0 TO 164.0	6.18 TO 6.46			

N\_SB\_211190\_6\_BBAA\_03\_00

Figure A-GBBAA - Sheet 03
Replacement of the Ozone Converters FIN 100HM and 101HM

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#### SERVICE BULLETIN REPORTING SHEET

# TITLE: AIR CONDITIONING - FLOW CONTROL AND INDICATING - DELETE TWO SENSORS PORTS ON 03 & VOC OZONE CONVERTER

MODIFICATION No.: 39985K12920 39986K12921

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

<u>Important Information:</u> This SB will only be incorporated in your maintenance and operational documentation if this sheet is returned to Airbus and signed by a duly authorised representative. With the next feasible revision, this will result in

- Updating of maintenance documentation to show pre and post SB data.
- Updating of maintenance and operational documentation to show post SB data after embodiment.

If this SB requires previous or simultaneous accomplishment of other SBs, Airbus shall automatically include them in the manual revisions. Refer to SIL 00-037 for detailed information.

Please return this completed sheet to:

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or via your Resident Customer Support Office.

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

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## SERVICE BULLETIN QUALITY PERCEPTION FORM

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

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

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

	Planning		Material		Instructions		
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Χ	Reason	Χ	List of Materials Operator Supplied	Χ	Mod/Inspection		
Χ	Manpower	Χ	Industry support	Χ	Test		
Χ	References	Χ	Re-identification	Χ	Close-Up		
Χ	Publication	Χ	Tooling	Χ	Illustrations		
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