

SERVICE BULLETIN
SUMMARY

AIRBUS
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC CEDEX
FRANCE
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Telex : AIRBU 530526F
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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 - COCKPIT AND CABIN TEMPERATURE CONTROL
- INTRODUCE MODIFIED TRIM AIR VALVE**

****CONF ALL**

MODIFICATIONS

MODIFICATION CLASSIFICATION					
MAJOR	None				
MINOR	154549K16372				

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

Operational experience has shown that high temperature of the Trim Air Valve (TAV) actuator could affect the TAV operation. As a consequence, the reduction of TAV actuator temperature has been achieved by increasing the electrical motor resistance.

This Service Bulletin is published to advise all operators of the issue of the LIEBHERR Service Bulletin No. 1320A-21-01 which modifies three TAVs accordingly.

The accomplishment of this Service Bulletin will increase the reliability of the TAV actuator.

GENERAL EVALUATION

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

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

MATERIAL PRICE INFORMATION

No Material

6 DATE: Jul 11/13

SERVICE BULLETIN No.: A320-21-1213

REVISION No.: 00 - Jul 11/13

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SUMMARY**EFFECTIVITY**

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

03X	08U	09S	11S	14S	15S	15T	16T	17S	17W	19R	26S	27V
29S	31V	31X	35T	35U	36V	38W	43S	46U	47Y	52T	53Z	54S
56W	59Z	62X	64S	66X	69X	73W	74T	79W	80X	83V	83W	85T
86W	86Z	89T	91X	93V	95V	95W	96S	97U	98W	98X	99W	AAF
AAL	AAR	AAW	AAV	ABL	ABQ	ABY	ACA	ACI	ADH	ADR	AEE	AFL
AFR	AGC	AHY	AIB	AIJ	AJM	ALK	AMC	AMU	ANA	ANZ	APJ	ARR
ART	ARU	AUA	AUH	AVA	AWC	AWM	AWW	AXM	AZA	AZI	AZW	B2V
BAL	BAW	BEC	BEL	BER	BGF	BGH	BGY	BHP	BIE	BJN	BKP	BRS
C2C	C8J	C9G	CBJ	CCA	CCM	CEB	CEF	CES	CHB	CHH	CIB	CQH
CQN	CRK	CSA	CSC	CSN	CSZ	CTN	CTV	CUA	CYP	D2F	DAL	DCS
DKH	DLH	DNV	DQA	DRK	EAA	EDW	EIN	ETD	ETJ	EVA	EZD	EZY
F2I	FFT	FGE	FHY	FIN	FLI	FPY	FRN	G2X	G4I	G8E	GAF	GAP
GFA	GIA	GLG	GMI	GMR	GOW	GWJ	GZQ	HAY	HCC	HDA	HKE	HKJ
HRM	HVN	I2L	I2T	IAC	IAW	IBE	IBS	IGO	IRA	IRM	ISR	ISS
IYE	JAG	JAS	JAV	JBU	JJP	JKT	JSA	JST	JZR	KAC	KCA	KFR
KGL	KHO	KHV	KKK	KMF	KNE	KOM	KZR	LAA	LAN	LAO	LBT	LBV
LFO	LJB	LLC	LLM	LLP	LMJ	LMU	LZB	M2I	MAC	MAU	MDL	MEA
MJF	MJN	MLD	MLM	MLR	MMA	MML	MON	MSC	MSR	MXA	MYX	NIA
NKS	NLV	NLY	NMA	NMB	NVD	NVR	NWS	OAL	OAW	OBS	OHY	ONE
ORF	OZW	PAL	PIC	PTR	PVJ	QAF	QTR	R1T	RAM	RBA	RBG	RFJ
RJA	RJD	RKM	RNV	ROT	RYW	RZO	SAA	SAI	SAS	SBI	SDM	SFJ
SFW	SGG	SGX	SHJ	SIA	SKU	SLK	SMX	SND	SNX	SOL	SRQ	SUD
SVA	SVR	SVW	SWM	SWR	SYA	SYR	TAE	TAI	TAK	TAM	TAP	TAR
TBA	TBJ	TBZ	TCW	TCX	TGW	THA	THY	TJS	TNA	TWJ	TXP	UAE
UAL	UEA	UKN	ULG	UNA	USA	UTA	UZB	VIM	VJC	VKG	VLE	VLG
VLK	VOI	VRD	VRE	VVC	WAU	WGT	WHT	WRC	WTJ	WZZ	XLF	

CONCURRENT REQUIREMENTS

None

REFERENCES / REPERCUSSIONS

TFU	21.60.00.007
OEB	None
AOT	None
SIL	None
LINE MAINTENANCE AFFECTED	No
LIFE LIMIT	None
OTHER	None

NATURE OF THE WORK

AIRCRAFT	YES
EQUIPMENT	YES
HARD	NO
SOFT	NO
OBRM	NO

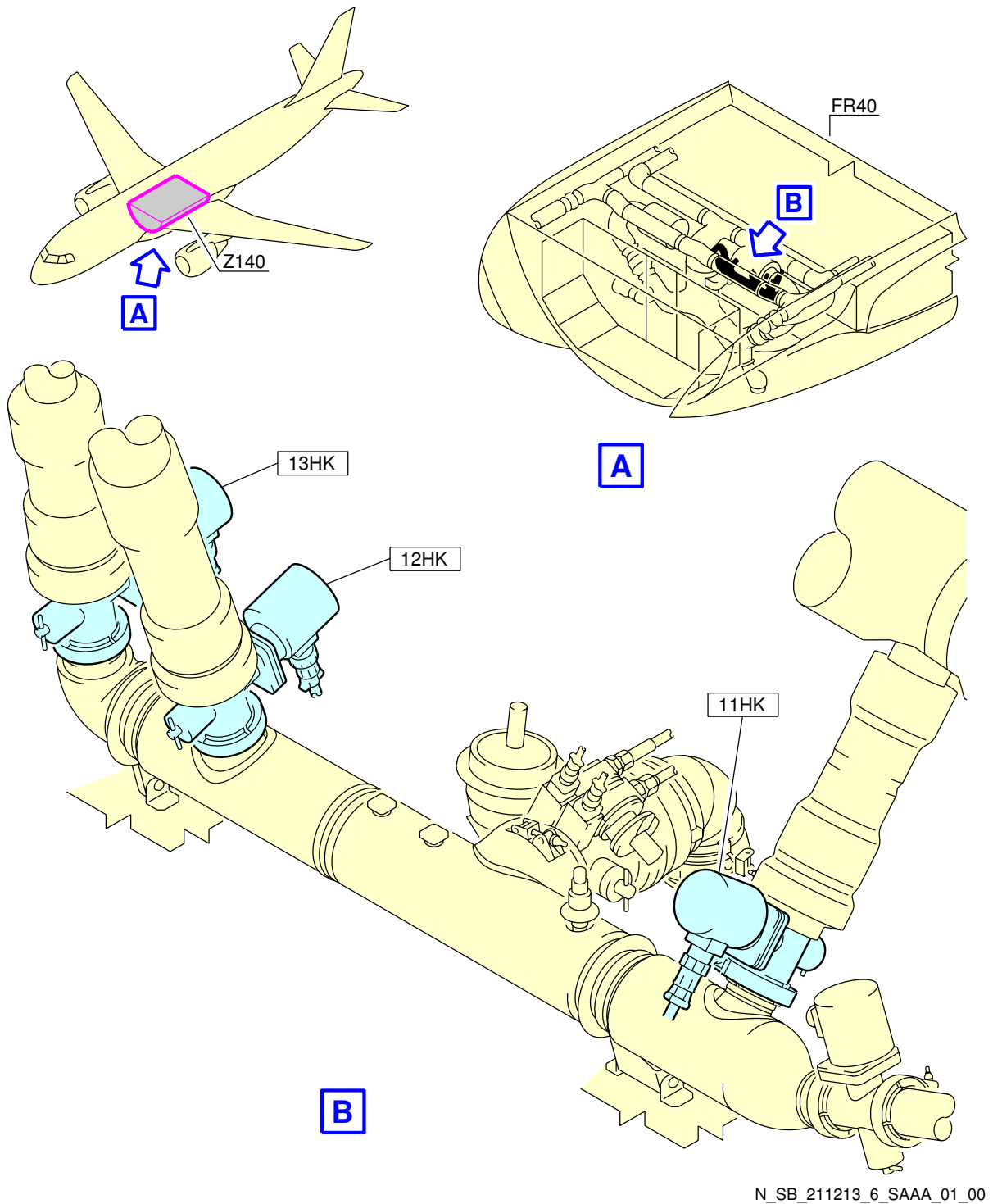
SERVICE BULLETIN
SUMMARY**MANPOWER**

Task 211213-831-848-001: Modification	
TOTAL MANHOURS	6.00
ELAPSED TIME (HOURS)	6.00
Additional manhours related to Vendor SB; refer to:	
Modify the Trim Air Valves	LIEBHERR Service Bulletin No. 1320A-21-01

APPENDICES

None

****CONF ALL**



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ATA SYSTEM: 21

**TITLE: AIR CONDITIONING - COCKPIT AND CABIN TEMPERATURE CONTROL
- INTRODUCE MODIFIED TRIM AIR VALVE**

MODIFICATION No.: 154549K16372

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1. PLANNING INFORMATION

****CONF ALL**

A. EFFECTIVITY

(1) Models

318-111	318-112	318-121	318-122	319-111	319-112	319-113	319-114
319-115	319-131	319-132	319-133	320-211	320-212	320-214	320-216
320-231	320-232	320-233	321-111	321-112	321-131	321-211	321-212
321-213	321-231	321-232					

(2) Effectivity by MSN

0029 0045-0059 0061 0063-0078 0080-0090 0093-0097 0099 0103-0104 0109-0127
0135-0138 0140-0142 0145 0147-0150 0152-0155 0157-0162 0164-0176 0178-0179
0181-0183 0185 0189-0190 0192 0194-0195 0197-0224 0229-0237 0239-0246
0248-0256 0258-0270 0272-0279 0281-0285 0287 0289-0303 0306-0312 0314
0316-0326 0328-0335 0339-0343 0345-0351 0353-0362 0364 0366-0373 0375-0376
0378 0380-0396 0398-0424 0426-0432 0434-0436 0438-0452 0454-0466 0468-0480
0482-0535 0537-0546 0548-0601 0603-0614 0616-0627 0629-0631 0633-0707
0709-0752 0754-0788 0790-0955 0957-1043 1045-1112 1114-1185 1187-1217
1219-1277 1279-1373 1375-1728 1730-1767 1769-1812 1814-1821 1823-1829
1831-1918 1920-1929 1931-1984 1986-1991 1993-2024 2026-2050 2052-2110
2112-2217 2219-2275 2277-2423 2425-2499 2501-2721 2723-3091 3093-3109
3111-3162 3164-5730 5732-5733

(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
08U	4151
09S	1300 1353
11S	4211
14S	0283
15S	1589
15T	0764 1494 2910 3164
16T	4679
17S	3333
17W	3046
19R	0421
26S	0368 0424 0438
27V	3826
29S	0291 0292
31V	0164 0332 0420 0436 1048
31X	2192 4319
35T	5040
35U	0088
36V	0136
38W	1194
43S	4650
46U	2906 2952 2982 3275 3296 3332 3674 3734 3986 4053 5218
47Y	0394
52T	1599
53Z	1468
54S	5261
56W	0250 0335
59Z	1556
62X	3402
64S	0557 0597
66X	0230 1283 1305
69X	0219 0449 0588 0733 0747 2214 2249
73W	0087
74T	2165 4228 4768
79W	3751
80X	2748
83V	0369
83W	4024
85T	0234
86W	0384

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OPERATOR	MSN
86Z	0168 0460 0461 0466 0497 1429
89T	3356
91X	2837
93V	3932
95V	3379
95W	2949
96S	1068 1145 2176
97U	4842
98W	0103 0109 0120 0222 0348 0441
98X	0590 0601
99W	1333 3038
AAF	0639 0808 0823 1006 1846 2870 3136 3242 3289 3852 4268 4589 4675
AAL	5327 5678 5698 5704
AAR	0802 1174 1356 1511 1636 1670 1734 2041 2110 2226 2247 2290 2397 2459 2808 2840 3244 3297 3437 3483 3496 3641 3873 4112 4142 5035 5169 5173 5287 5350 5382 5462 5500 5636
AAW	3224 3236 3615 3657 4004 4203 4330 4489 4521 5414 5448
AAY	1255 2224 2319 2387
ABL	1227 1970 2045 2943
ABQ	1467 3364 3385 3388 3403 3974
ABY	3218 3246 3444 3476 3626 3802 3840 3925 4061 4243 4310 4468 4524 4806 4848 4890 4958 5017 5143 5206 5276 5307 5423 5452 5502 5576 5718
ACA	0059 0068 0073 0084 0122 0126 0127 0141 0149 0150 0154 0159 0174 0175 0183 0210 0231 0232 0233 0242 0248 0253 0254 0255 0265 0277 0284 0290 0309 0324 0330 0341 0378 0403 0404 0546 0572 0634 0656 0670 0672 0682 0688 0691 0693 0695 0697 0711 0719 0721 0728 0732 0736 0740 0742 0752 0757 0769 0773 0779 0785 0800 0813 0817 0829 0831 0840 0845 1562 1577 1602 1611 1623 1632 1638 1673 1719 1726 1742 1748 1772 1783 1811 1853 1864 1874 1940 2018 2145
ACI	2152
ADH	3138 3161 3328 3502 3515 3532 3643 3666 3695
ADR	0444 4282 4301
AEE	2468 3033 3066 3074 3162 3316 3365 3392 3423 3439 3462 3478 3526 3527 3709 3714 3745 3748 3753 3773 3785 3812 3820 3829 3850 3878 3990 4065 4094 4165
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 3281 3298 3334 3336 3373 3410 3511 3545 3574 3627 3631 3640 3644 3699 3711 3778 3786 3789 3794 3823 3835 3838 3923 3942 3954 3998 4058 4074 4099 4103 4116 4133 4148 4160 4453 4461 4498 4500 4579 4625 4649 4656 4684 4692 4712 4835 5044 5059 5271 5421 5536 5565 5572 5578 5580 5585 5614 5720

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OPERATOR	MSN
AFR	0061 0063 0115 0145 0155 0214 0236 0237 0239 0270 0278 0285 0287 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 2035 2059 2071 2081 2100 2109 2140 2317 2344 2350 2456 2582 2601 2686 2705 2716 2721 2750 2918 2938 2951 2961 2967 2972 3008 3009 3051 3098 3372 3399 3401 3419 3420 3441 3470 3777 3795 3814 3825 3859 3884 3930 4063 4084 4105 4137 4139 4241 4251 4267 4295 4298 4335 4402 4601 4604 4664 4714 4747 4800 4820 4901 4908 5084 5129 5719
AGC	0190
AHY	0331 2487 2516 2588 2685 2788 2846 2853 2865 2991 3006
AIB	0138 5295
AIJ	0169 0707 1132 1162 1179 1244 1259 1308 1322 1747 1780 2048 2189 2227 2539 3021 3123 3149 3160 3286 3304 3312 3374 3508 3514 3667 3690 4235 4304 4411 4730 4733 4924 4933 5163 5221 5358 5372 5653 5665
AJM	0624 0626
ALK	2345 2564 2584 2908 4694 4869 4915 5086
AMC	2113 2122 2142 2291 2332 2382 2665 2768 3056 3068
AMU	0620 0631 0805 0908 0928 1758 1790 1850 1893 1912 1926 1962 5459 5523
ANA	0167 0170 0212 0245 0300 0328 0383 0413 0482 0501 0507 0531 0534 0549 0554 0658 0669 0685
ANZ	2085 2090 2112 2130 2148 2153 2173 2257 2297 2445 2533 2594 2663 4553 4584 4884 4926 5629 5682
APJ	4887 4936 5015 5166 5304 5384 5440 5540 5640 5724
ARR	0913
ART	0142 0279 0310 0311 0333 0359 0426 0533 0936
ARU	0573 0582
AUA	0552 0570 0581 0768 0776 0797 0920 0935 1137 1150 1189 1385 1387 1458 1478 1504 1553 1678 1735 1931 1937 2009 2131 2174 2262 2416 2494 2547 2652
AUH	2403
AVA	1612 1618 1634 2066 2328 2333 2358 2367 2377 2394 2523 2544 2552 2575 2662 3408 3467 3518 3647 3664 3691 3961 3980 3988 3992 4001 4011 4026 4046 4051 4100 4167 4175 4200 4281 4284 4345 4381 4487 4567 4599 4763 4789 4821 4862 4939 5057 5119 5195 5360 5398 5454 5477 5622 5632
AWC	2791
AWM	0765
AWW	0446

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OPERATOR	MSN
AXM	2425 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 3505 3521 3536 3549 3568 3576 3582 3610 3628 3648 3679 3701 3715 3729 3765 3776 3813 3875 3963 3997 4019 4035 4070 4079 4088 4098 4126 4147 4263 4278 4293 4302 4333 4346 4361 4367 4386 4390 4404 4426 4458 4462 4477 4486 4557 4571 4582 4793 4797 4807 4882 4889 4917 4964 4969 4979 4980 4989 5098 5137 5149 5153 5165 5200 5215 5272 5283 5325 5344 5347 5353 5359 5397 5420 5428 5430 5431 5468 5505 5547 5593 5619 5627 5657 5703 5706
AZA	0434 0477 0488 0494 0495 0513 0514 0515 0516 0524 0526 0532 0576 0583 0586 0593 0599 0819 0848 0940 0951 0959 0999 1138 1168 1217 1220 1448 1457 1473 1480 1489 1722 1740 1745 1770 1779 2033 2057 2074 2083 2086 2101 2127 2869 2932 3076 3079 3080 3115 3178 3213 3295 3343 3362 3412 3464 3482 3563 3598 3609 3732 3815 3831 3846 3885 3906 3921 3956 3976 3978 4075 4108 4119 4143 4152 4195 4249 4520 4523 4536 4759 4764 4859 4875 4910 5018 5130 5294 5383 5424
AZI	0527
AZW	0630 1973
B2V	0185
BAL	2335 3492
BAW	1014 1082 1115 1118 1142 1177 1193 1197 1222 1225 1232 1236 1239 1258 1261 1279 1295 1329 1338 1380 1384 1418 1423 1424 1440 1445 1466 1510 1513 1529 1537 1558 1574 1590 1594 1604 1606 1661 1665 1687 1689 1690 1696 1708 1711 1754 1760 1782 1814 1829 1871 1883 1899 1907 1910 1958 1987 2038 2040 2098 2188 2190 2194 2305 2320 2323 2324 2351 2363 2389 2429 2441 2466 2536 2653 2694 2697 2720 2799 2981 3049 3081 3235 3254 3290 3301 3314 3351 3468 3499 3512 3550 3607 3649 3697 3703 3721 3726 3912 3926 4007 4039 4185 4238 4265 4306 4464 4551 4725 4791 4975 5634
BEC	3199
BEL	0644 1086 1102 1160 1336 1388 1441 1493 1797 1838 1963 2196 2230 2392 2400 2810 3255 3790 4275
BER	1629 1966 1988 1994 2005 2619 3055 3093 3121 3415 3447 3516 3708 3728 3749 3865 3945 4013 4101 4161 4269 4291 4329 4334 4433 4510 4565 4606 4674 4728 4743 4988 5038 5126 5133 5191 5246 5252
BGF	3188
BGH	0349 1087 2844 2863 3139
BGY	1450 1723 2118 2645
BHP	2968 3245 3422 3604 4033 4187 4294 4631
BIE	0519 0827 0891
BJN	3617 4956
BKP	2254 2310 2417 2509 2531 2634 2648 2660 2664 3421 3424 3454 3694 3759 3911
BRS	2263

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OPERATOR	MSN
C2C	5088
C8J	5545
C9G	0246 0710 0772 1676
CBJ	4388 4428 5630 5722
CCA	0876 0921 1296 2000 2007 2015 2172 2202 2205 2237 2269 2285 2293 2298 2454 2499 2508 2525 2532 2545 2551 2559 2614 2643 2805 2819 2839 2847 2890 3195 3200 3215 3221 3226 3250 3307 3329 3337 3461 3506 3523 3601 3623 3653 3655 3665 3678 3722 3725 3766 3806 3940 3973 4022 4031 4062 4091 4131 4180 4221 4283 4317 4318 4348 4377 4472 4473 4494 4538 4566 4593 4617 4719 4771 4775 4803 4829 4834 4873 4895 4900 4949 4963 4985 4997 5014 5032 5054 5091 5124 5174 5199 5265 5346 5352 5386 5419 5432 5435 5568 5573 5600 5664 5690
CCM	3882 3952 4463 4478
CEB	2556 2586 2625 2638 2786 2790 2821 2831 2852 2876 2994 3048 3272 3433 3472 3487 3646 3762 3767 4447 4508 4537 4574 4852 4861 4870 4927 4993 5045 5067 5250 5320 5381 5442 5498 5669 5687
CEF	2801 3085
CES	0665 0754 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 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 2693 2757 2825 2882 2895 3168 3170 3186 3197 3233 3247 3249 3262 3471 3481 3559 3593 3611 3612 3613 3639 3650 3677 3682 3692 3716 3775 3793 3797 3870 3904 3929 3937 3965 3969 4027 4037 4043 4045 4111 4144 4186 4198 4209 4220 4239 4240 4252 4297 4309 4340 4342 4355 4374 4423 4627 4638 4659 4685 4702 4709 4711 4718 4722 4723 4729 4746 4748 4765 4769 4776 4799 4831 4844 4857 4877 4886 4903 4938 4946 4967 4987 5047 5048 5053 5063 5135 5136 5144 5156 5192 5210 5227 5242 5267 5273 5309 5326 5330 5338 5363 5376 5380 5402 5412 5439 5461 5481 5508 5516 5519 5524 5527 5558 5575 5623 5628 5668 5691 5700 5705 5710 5711 5726
CHB	5626 5679
CHH	2475 2557 2561 2581 2611 2617 2644 2733 2746 2849 2891 2985 3285 3520 3548 3561 3578 3580 3638 3768 3842 3849 3851 3914 3958 3982 4042 4262 4410 4412 4440 4452 4471 4482 4483 4505 4513 4522 4529 4540 4569 4580 4600 4602 4644 4677 4686 4687 4739 4825 4995 5006 5008 5072 5100 5105 5114 5117 5172 5185 5216 5220 5331 5471 5656
CIB	0774 0809 0884 0894 0905 0957 0971 1381 1402 1416 1437 1607 1968 5603
CQH	0978 1686 1769 1852 1920 2939 3014 3023 3747 3819 4072 4093 4168 4244 4331 4366 4373 4375 4499 4586 4738 4750 4760 4809 4816 4909 4978 4983 5022 5051 5108 5378 5403 5434 5446 5466 5562
CQN	0696 0698 0704 0705 3836 3876 3901 3903 3941

A318/A319/A320/A321

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OPERATOR	MSN
CRK	5147 5189 5260 5416 5514 5544
CSA	2719 2758 2789 3031 3043 3060 3094 3097 3406 3436 3452 3660 3892 4258 4713
CSC	0540 0550 0551 0556 0591 0878 0902 0912 0915 0919 1007 1013 1500 2313 2348 2396 2431 2510 2534 2597 2639 3114 3116 3124 3158 3167 3196 3210 3386 3449 3583 3591 3680 3730 3893 3962 3996 4018 4068 4288 4326 4378 4420 4424 4525 4575 4619 4642 4660 4707 4731 4824 4830 4856 4905 4911 4923 5041 5121 5141 5160 5197 5208 5233 5286 5303 5389 5470 5543 5609 5646 5647 5650 5670
CSN	0709 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 2354 2361 2371 2408 2426 2435 2484 2505 2506 2511 2519 2521 2530 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 3867 3890 3910 3920 3934 3938 3951 3959 3981 3983 3999 4003 4017 4036 4038 4071 4140 4172 4184 4189 4194 4205 4217 4224 4225 4230 4232 4248 4260 4266 4271 4274 4279 4290 4292 4299 4322 4325 4338 4341 4350 4362 4365 4369 4370 4387 4396 4416 4430 4456 4507 4550 4613 4671 4696 4751 4782 4794 4808 4836 4854 4864 4880 4883 4912 4919 4928 4982 5061 5151 5168 5170 5183 5202 5214 5225 5237 5268 5279 5288 5410 5480 5484 5503 5506 5534 5561 5564 5579 5602 5611 5645 5655 5671 5693 5713 5730
CSZ	2672 2684 2841 2905 2909 2935 2973 2980 3131 3132 3153 3206 3366 3383 3435 3440 3456 3528 3599 3696 3698 3756 3848 3855 3887 3898 3935 3971 4010 4028 4159 4176 4208 4214 4226 4300 4359 4407 4409 4435 4474 4514 4531 4620 4633 4666 4726 4845 4866 4876 4897 4920 4929 4977 4986 5002 5082 5110 5176 5369 5521 5550 5589 5639
CTN	0258 0767 0833 1009 1029 1237 1252
CTV	5511 5541 5551 5556 5560 5574 5597
CUA	5023
CYP	0256 2108 2275 2334 2343 2359 2383 2718 4197
D2F	0243 0251 0326 0411 0478
DAL	0118 0121 0125 0152 0153 0160 0171 0192 0197 0206 0208 0213 0262 0263 0272 0273 0281 0282 0297 0298 0306 0307 0318 0319 0329 0339 0340 0355 0358 0360 0367 0372 0380 0381 0387 0388 0399 0408 0410 0417 0418 0766 0778 0786 0801 0807 0818 0830 0832 0846 0903 0907 0911 0923 0962 0964 0981 0988 0996 1011 1037 1058 1062 1191 1230 1249 1324 1325 1346 1392 1414 1434 1453 1456 1483 1498 1501 1520 1535 1543 1549 1567 1570 1582 1633 1641 1646 1659 1662 1683 1685 1693 1709 1714 1738 1746 1752 1766 1774 1789 1796 1800 1810 1812 1815 1820 1824 1828 1833 1839 1875 1897 1923 1959 1976 1982 1990 2002 2013 2026 2039 2047 2082 2087 2092 2095

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OPERATOR	MSN
DCS	1053 3243 3632
DKH	2975 3027 3234 3268 3368 3485 3596 3605 3967 3984 4064 4102 4154 4276 4401 4429 4573 4587 4652 4833 4840 4981 5013 5070 5071 5131 5226 5329 5339 5455 5491 5674
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 0794 0853 0860 0875 0887 0901 1016 1080 1161 1172 1188 1214 1260 1273 1337 1365 1367 3265 3339 3360 3387 3434 3592 3625 3864 3936 3987 4005 4016 4047 4054 4073 4085 4097 4120 4141 4153 4182 4191 4261 4289 4324 4332 4360 4363 4398 4449 4455 4511 4545 4560 4585 4607 4626 4672 4710 4753 4792 4796 4819 4841 4881 4916 4976 4994 5028 5049 5087 5122 5181 5186 5203 5239 5284 5293 5413 5425 5441 5487 5497 5525 5557 5601 5635 5658 5694
DNV	1630 1805 1808 1841 2241 2751 3065
DQA	2347
DRK	2306 2346 3950
EAA	0386 0445
EDW	0942 0947 1026 2024
EIN	0926 1023 1094 1229 1242 1394 1443 1983 2001 2191 2206 2217 2250 2256 2272 2294 2364 2374 2399 2409 2411 2432 2486 2542 2583 2635 3054 3102 3129 3169 3318 3345 3377 3501 3755 3781 3857 4572 4634 4678 4715
ETD	0350 1944 1945 1947 1955 2167 3004 3050 3676 3693 3713 3902 4066 4077 4124 4934 5095 5348 5407 5714
ETJ	0325 0428
EVA	5328 5354 5377 5485
EZD	0667 0743 0872 0874 1074 1286 2137 2141 2147 2576 3621 4533
EZY	2037 2043 2050 2053 2062 2120 2170 2181 2184 2245 2265 2271 2289 2300 2353 2360 2370 2385 2398 2402 2412 2420 2427 2450 2463 2471 2477 2481 2492 2495 2503 2512 2514 2527 2528 2538 2565 2578 2605 2636 2646 2677 2681 2691 2702 2709 2715 2727 2729 2735 2742 2744 2754 2765 2769 2777 2779 2782 2795 2803 2812 2818 2827 2829 2854 2860 2866 2873 2884 2923 2946 2959 3003 3036 3041 3053 3059 3061 3082 3084 3088 3090 3118 3122 3134 3137 3176 3184 3411 3413 3426 3432 3442 3466 3537 3544 3555 3569 3571 3608 3634 3675 3683 3702 3720 3735 3742 3746 3754 3763 3774 3788 3799 3805 3808 3810 3824 3843 3844 3845 3854 3871 3888 3909 3913 3922 3946 3953 3975 3979 3991 4006 4012 4014 4034 4040 4048 4056 4069 4076 4080 4087 4125 4129 4132 4157 4179 4196 4219 4233 4234 4250 4286 4313 4327 4380 4385 4418 4425 4427 4437 4444 4451 4554 4556 4588 4591 4624 4635 4636 4640 4646 4667 4676 4680 4693 4705 4708 4717 4721 4740 4744 4749 4778 4781 4785 4787 4837 5019 5020 5046 5052 5056 5064 5104 5111 5113 5116 5138 5146 5150 5187 5201 5224 5236 5249 5289 5318 5319 5542 5592 5638 5688 5702
F2I	0085 0148 0204 0215 0249 0301 0357 0373 0391 0724 0758

SERVICE BULLETIN

OPERATOR	MSN
FFT	1515 1579 1583 1615 1660 1684 1759 1781 1786 1803 1806 1860 1939 1943 1980 1991 1997 2010 2012 2017 2019 2030 2103 2198 2209 2236 2240 2253 2258 2260 2287 2318 2325 2406 2448 2483 2518 2806 2836 2857 3389 3431 4127 4204 4253 4254 4272 4307 4562 4641 4668 4688 4704 4727 4745 5661
FGE	1439 3834
FHY	0580 0771 0855 2524 2804 4207 4658 5096
FIN	0941 0961 1073 1107 1184 1185 1241 1309 1352 1364 1405 1470 1544 1588 1712 1913 1916 1978 1989 2065 2124 2146 2154 2208 2266
FLI	2186 5079
FPY	0112 0189 0342 0395
FRN	0647 0660
G2X	0347 0674
G4I	1157 1795 2507
G8E	0221 0294 0594 0605 1464 2700 2763
GAF	3897 4060
GAP	4415 4504 4777 4907 4984 5007 5012 5103 5310
GFA	4030 4059 4083 4146 4158 4188 4218 4255 4502 4541 4780 4827 4860 4865 5025 5074 5171 5175 5180 5257 5321 5336
GIA	0839 0892 1635 2598 2692 3147 3148 3861 4961 5351 5379 5394 5399 5415 5571
GLG	1866 1872 1882 1925 2078 2126 4379 4547
GMI	3019 3202 3407 3589 3818 4663 4691 5085
GMR	1407
GOW	3256 3306 3597 3616 3798 3827 3900 3915 4399 4438 5016 5112 5232 5463 5552 5675
GWI	0646 0654 1077 1084 1089 1136 1147 1155 1170 1209 1277 2607 2628 2632 2813 2833 2976 3011 3128 3172 3193 3352 3358 3375 3500 3534 3839 3841 4166 4227 4256 4285 4998 5043 5457 5467 5535 5569
GZQ	1878
HAY	0716 0888 2745 3533 3560
HCC	2180 4699
HDA	0633 0756 0784 0812 0930 0993 1024 1253 1695 1721 1984 2021 2229 2238 2428 4023 4247 5024 5030 5362 5429
HKE	4970 5264 5266 5341
HKJ	2706 3073 4878
HRM	0293 0517 0535 0642
HVN	0619 0648 0650 2255 2261 2267 2303 2974 3005 3013 3022 3198 3315 3355 3600 3737 3862 3964 3966 4136 4213 4277 4311 4315 4669 4703 4737 4783 4826 4863 4945 4971 5164 5241 5247 5251 5275 5297 5306 5340 5385 5392 5418 5438 5456 5469 5495 5555 5699 5709
I2L	0371 0443 0816 0973 1018
I2T	1631 1682

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SERVICE BULLETIN

OPERATOR	MSN
IAC	0045 0046 0047 0048 0049 0050 0051 0056 0057 0058 0074 0075 0080 0089 0090 0095 0096 0097 0396 0398 0416 0423 0431 0432 0451 0469 0486 0490 0492 0499 1668 1718 2593 2624 2629 2907 3130 3146 3212 3271 3288 3300 3305 3326 3340 3344 3367 3498 3551 3557 3573 3619 3620 3687 3752 3792 3822 3874 3918 3955 3970 4002 4009 4020 4029 4052 4078 4089 4096 4121 4138 4155 4164 4201 4212 4236 4237 4280
IAW	4044 4067 5115 5290 5464
IBE	0173 0223 0274 0356 1021 1027 1047 1119 1154 1180 1247 1262 1288 1292 1318 1347 1362 1554 1572 1655 1674 1681 1716 1793 1809 1836 2115 2220 2225 2242 2248 2264 2270 2311 2357 2365 2381 2391 2472 2488 2563 2599 2736 2756 2889 2996 3078 3179 3209 3320 3380 3443 3651 3744 5486 5570 5692
IBS	0158 0176 0207 0224 0266 0323 1059 1067 1099 1101 1516 1530 2104 2143 2807 5501 5590 5729
IGO	3159 3192 3227 3335 3357 3414 3453 3457 3497 3541 3618 3782 3863 3943 4008 4113 4156 4216 4312 4328 4384 4481 4488 4506 4518 4535 4552 4603 4609 4614 4630 4637 4752 4757 4762 4813 4818 4868 4888 4947 4954 4965 5027 5036 5076 5080 5090 5092 5094 5155 5190 5230 5231 5259 5262 5291 5298 5313 5365 5411 5437 5460 5473 5476 5507 5537 5577 5641 5676 5683 5712 5727
IRA	0303 0312 0345 0530 0575 0857 2054
IRM	1202
ISR	4354 4413
ISS	0737 0749 1125 1198 1823 1896 2102
IYE	4653 4690
JAG	4503
JAS	5478
JAV	0029 2061
JBU	1123 1156 1173 1235 1240 1257 1270 1280 1302 1327 1398 1446 1452 1506 1528 1546 1557 1610 1650 1705 1739 1784 1785 1849 1861 1898 1904 1915 1917 1927 1948 2006 2020 2031 2042 2063 2075 2099 2125 2132 2136 2149 2150 2159 2160 2177 2201 2215 2231 2246 2259 2280 2284 2286 2307 2314 2336 2352 2368 2384 2386 2415 2447 2449 2461 2489 2491 2504 2520 2535 2577 2580 2640 2647 2671 2710 2725 2755 2781 2802 2814 2832 2848 2871 2880 2900 2945 2970 2977 2992 3029 3039 3072 3091 3119 3150 3190 3228 3263 3287 3348 3381 3416 3451 3479 3488 3517 3554 3572 3622 3659 3707 3724 3760 3800 3811 4578 4612 4647 4904 5060 5142 5148 5302 5312 5349 5417 5677 5723
JJP	5093 5145 5161 5245 5274 5281 5355 5492 5499 5520 5598 5618 5649 5695 5701 5717 5732
JKT	5532 5685 5725
JSA	2316 2356 2423 2453 2604 4443 4515 4772 4786 4872 4914 5305 5323 5390 5433 5472 5482 5708

SERVICE BULLETIN

OPERATOR	MSN
JST	1195 1408 2169 2185 2197 2292 2299 2322 2329 2338 2455 2515 2526 2537 2573 2587 2600 2608 2642 2651 2703 2717 2766 2787 3474 3495 3547 3668 3717 3743 3783 3899 3916 3917 3948 4177 4178 4229 4245 4257 4303 4343 4356 4434 4460 4466 4495 4497 4527 4899 4922 5039 5211 5270 5311 5334 5489 5566 5631
JZR	2569 2792 2822 3919 3939 4162 5033 5625
KAC	0181 0182 0195 2046 3957
KCA	0407 0662
KFR	2366 2376 2443 2621 2650 2817 2856 2874 2916 2919 2922 2933 3012 3105 3302 3322
KGL	0663 0668 0787 0852 0954 1060 1293 2029 2077
KHO	0354 0361 0376 0393 0414
KHV	2480 5343 5427
KKK	0604 0614 0675 0761 0968 0974 1124 1438 1451 1503 1730 1950 1953 2747 2753
KMF	0480
KNE	2123 2776 3238 3361 3396 3425 3475 3530 3787 3817 3868 3889 3894 3933 4055 4735 5716
KOM	0409
KZR	1042 1204 2128 2828 3141 3484 3519 3614 5357 5401 5404 5613
LAA	4405 4450 4490 4526 5373 5405 5494
LAN	1304 1332 1351 1355 1491 1512 1526 1548 1568 1626 1854 1858 1877 1903 2089 2096 2295 2304 2321 2572 2585 2845 2858 2864 2872 2886 2887 2892 2894 3264 3280 3319 3330 3535 3556 3663 3671 3770 3772 3779 4383 4400 4439 4476 4509 4516 4543 4546 4549 4563 4576 4597 4598 4605 4657 4697 4758 4767 4815 4839 4871 4892 4896 4921 4943 4972 5005 5097 5125 5178 5213 5229 5234 5263 5316 5324 5364 5408 5443 5453 5483 5493 5548 5554 5583 5586 5686 5707
LAO	4596 4639 5356 5396
LBT	0400 0793 0937 0970 0995 1121 1175 1597 1744 3480 4623
LBY	0558 0561 1098 1727 2277
LFO	0659
LJB	3985
LLC	0415 1715 2987
LLM	1054 1918 1969 1993 2413 2419 2439
LLP	0739 1411 2016
LMJ	1868
LMU	0666 0932 0943 0977 1366
LZB	2540 2596 3028 3309 3564 3780
M2I	1017
MAC	3809 3833 4539 4568
MAU	1592 1936
MDL	4918 4973 5073 5335 5375 5426 5449 5605
MEA	1956 1967 1977 2055 3736 3804 3837 4296 4339 4632 5000 5152 5162 5253
MJF	4353

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SERVICE BULLETIN

OPERATOR	MSN
MJN	3723 4117 4795
MLD	0622 0741
MLM	2592 3363 4199 4470 4622 5538
MLR	1946 2731 3106
MMA	0113 0114 0295 0316 1791
MML	1706 1750
MON	0389 0392 0864 0983 1015 1045 1081 1153 1207 1320 1370 1413 1421 1428 1433 1571 1637 1707 1763 1794 1941 2105 2234 2730 2793 3546 3575 5526 5581 5582 5606
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 0296 0320 0321 0353
MYX	0566
NIA	3183 3219
NKS	2433 2470 2473 2476 2485 2490 2560 2567 2590 2603 2622 2673 2679 2698 2704 2711 2723 2797 2893 2898 2929 2942 2963 2978 2983 3007 3017 3026 3165 3393 3395 4206 4264 4321 4431 4548 4592 4595 4902 4951 4996 5029 5042 5132 5159 5370 5387 5458 5517 5624 5672
NLV	1998 2157 2210 2496 2502
NLY	2529 2668 2749 2867 2902 3504 3661 3689 3830 4231 4316 4368 4581 4594 4611 4648 5522 5648
NMA	1697 1732 2676
NMB	3346 3586 5366 5400
NVD	0211 0299 0375 0419 0528 1263 1778
NVR	2211 2216 2410
NWS	1219 1233 1276 1843 2649 2927 3034 3120
OAL	3895 3905
OAW	1886
OBS	3758 5642
OHY	0364 0385 0455 0471 0496 0543 0640 0661 0676 0792 0806 0810 0811 0835 0916 0963 1004 1008 1482 1509 2571 2688
ONE	3001 3030 3062 3214 3216 3371 3390 3438 3469 3509 3585 3602 3606 3635 3642 4222 4287 4336 4891 4913 4941 4942 5193 5278 5299
ORF	2566 4992
OZW	0429 1922
PAL	0706 0745 2162 2183 2878 2925 2954 3087 3108 3187 3205 3273 3310 3455 3553 3579 3652 3731 5081 5140 5315 5371 5715
PIC	0990 2331 2340 2670 4459
PTR	0459 0537
PVJ	3542
QAF	0927 1335 3994 4114 4170

SERVICE BULLETIN

OPERATOR	MSN
QTR	1487 1566 1648 1656 1773 1895 1928 1957 2097 2107 2121 2138 2161 2288 2341 3274 3369 3397 3636 3669 4110 4130 4173 4183 4382 4406 4436 4479 4496 4530 4615 4700 4754 4784 4802 4810 4858 4930 4968 5010 5078 5127 5182 5217 5255 5361 5395
R1T	1908
RAM	2064 2076 2726 3070
RBA	2023 2032 2135 2139 2195 3071
RBG	2764 3152
RFJ	0814
RJA	2953 3428 3522 3685 3803 3832 4670 4817 4853 5099 5128 5177 5367
RJD	5277
RKM	2158 3907
RNV	0229
ROT	2931 2955 3220 3225
RYW	0569 3458
RZO	0795 2011 2390 3891
SAA	2268 2281 2308 2326 2355 2375 2379 2418 2438 2469 2501 4990 5011 5637 5680
SAI	0542 0877 1497 2027 3089 3270
SAS	1183 1383 1587 1619 1642 1675 1798 1807 1817 1848 2850 2883 2888 2911 2958 2990 3086 3231 3292
SBI	1071 1078 1090 1091 1126 1129 1131 1149 1164 1167 1819 1870 2028 2279 2369 2373 2464 2474 2618 2623 2641 3446 3473 3490 3494 3866 3880 4032 4150 5001 5026 5031 5106 5134 5167 5559 5607
SDM	0427 0525 0649 1130 1488 1560 1578 1654 1657 1679 1743 1753 1761 1767 1851 1863 1876 1890 2465 2497 2879 2913 2930 2964 3044
SFJ	2620 2658 2695 3025 4555 4720 5102 5393 5512 5652
SFW	0671 0994
SGG	0799 0879 1390
SGX	1605
SHJ	0910
SIA	0244
SKU	0179 0406 0447 1400 1523 2119 2129 2251 2283 2378 2380 2436 2460 2548
SLK	0899 0969 1228 1422 1561 1698 2058 2252 2517 2568 2775 3104 3570 3821 4118 4215 4259 4457 4701 5050 5089 5296 5531
SMX	2995
SND	1880 1999
SNX	0289
SOL	0302
SRQ	3757 3801 5188 5194 5228
SUD	3040

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SERVICE BULLETIN

OPERATOR	MSN
SVA	4015 4057 4081 4090 4092 4104 4115 4122 4135 4273 4314 4337 4349 4357 4364 4376 4391 4392 4393 4394 4397 4408 4414 4419 4432 4442 4454 4467 4484 4501 4517 4519 4542 4564 4577 4590 4811 4823 4838 4925 4955 4962 5009 5065 5223 5285 5314 5447 5509 5549
SVR	0140 0157 0203 0220 0735 0775 0815 0841 0991 1012 1063 1152 1199 1484 1720 1751 1777 1884 1901 1905 2117 2166 2175 2187 2278 2327 2349 2707 2998 3099 3107 3189
SVW	2921 3100 3133 3856 5445
SWM	0430 0476
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 1144 1762 1951 2134 4534 4618 4673 5037 5069 5518 5567
SYA	3853 3872
SYR	0886 0918 1032 1076 1085 1117
TAE	0657 0934 0946 0949 1339 1368 1934 2084 2659
TAI	1066 1334 1598 1625 1952 2282 2301 2339 2434 2444 2553 2610 2687 2862 2917 3042 3057 3103 3113 3248 3276 3378 3418 3510 3538 3577 3581 3869 4906 4944 5068 5219 5238 5243 5280 5333 5406
TAK	2442 2446 3171 3331
TAM	0334 0440 0976 1010 1092 1096 1103 1139 1143 1158 1215 1246 1251 1376 1459 1486 1518 1575 1580 1591 1593 1595 1608 1613 1628 1652 1663 1672 1692 1703 1717 1757 1771 1775 1801 1802 1804 1818 1825 1826 1827 1831 1832 1835 1837 1855 1857 1888 1891 2014 2044 2372 2393 2467 2513 2661 2734 2737 2783 2784 2838 2859 2896 2904 2924 3002 3032 3035 3047 3058 3111 3156 3180 3211 3222 3229 3240 3266 3278 3284 3294 3313 3325 3391 3540 3565 3588 3594 3595 3630 3658 3662 3710 3727 3733 3750 3761 3816 3908 3972 4000 4163 4171 4192 4320 4352 4358 4389 4441 4446 4465 4544 4570 4662 4734 4756 4773 4953 4974 5066 5101 5107 5109 5184 5209 5222 5240 5342 5345 5528 5591 5621 5643 5654 5666
TAP	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 3769 3883 4021 4095 4106 4145
TAR	0119 0123 0124 0205 0370 0390 0402 0511 0869 0880 0958 0975 1187 1479 1700 3096 4344 4689 5204 5474 5610
TBA	4766 4801 4846 5157 5256 5451 5529 5563
TBJ	1485
TBZ	0362 0405
TCW	0653 1787 1929 1975 2362
TCX	0677 1238 1250 1942 1961 1965 2003 2060 2114
TGW	2724 2728 4181 4210 4421 4445 4469 4491 4493 4532 4561 4608 4645 4804 4812 4874 4879 4931 5120 5496 5596 5662 5697 5721
THA	5198 5248 5258 5301 5436 5553

SERVICE BULLETIN

OPERATOR	MSN
THY	1002 1624 1856 1909 1996 2156 2164 2395 2401 2404 2414 2452 2522 2602 2609 2626 2631 2655 2738 2739 2823 2868 2928 2934 2941 2984 2999 3010 3015 3126 3142 3185 3207 3208 3239 3257 3259 3283 3303 3308 3341 3350 3382 3405 3429 3525 3539 3558 3567 3603 3637 3654 3673 3688 3718 3719 3738 3896 3931 3949 4629 4643 4654 4665 4682 4695 4698 4706 4755 4761 4774 4779 4788 4790 5077 5083 5118 5154 5205 5254 5388 5450 5465 5490 5546 5584 5633 5663 5667 5689
TJS	3513 4169
TNA	0538 0555 0606 0731 0746 0791 0822 2914 5055
TWJ	2550
TXP	0607 0611 0617
UAE	4822
UAL	0435 0439 0442 0450 0452 0454 0456 0457 0462 0463 0464 0465 0470 0472 0475 0479 0483 0485 0487 0489 0500 0503 0504 0506 0508 0510 0512 0523 0539 0568 0571 0587 0589 0592 0613 0638 0655 0678 0683 0686 0690 0702 0748 0751 0759 0780 0783 0788 0798 0804 0820 0824 0825 0826 0834 0836 0842 0843 0847 0850 0851 0858 0862 0865 0867 0871 0873 0882 0893 0898 0944 0948 0952 0955 0965 0980 0989 1001 1022 1031 1104 1105 1128 1146 1163 1192 1211 1243 1248 1266 1272 1282 1290 1291 1321 1341 1343 1359 1363 1401 1409 1420 1426 1427 1432 1435 1460 1469 1474 1475 1477 1495 1507 1508 1514 1522 1533 1538 1545 1555 1559 1569 1573 1581 1584 1585 1586 1600 1609 1617 1620 1627 1647 1649 1653 1664 1669 1671 1680 1688 1702 1728 1731 1737 1741 1755 1821 1840 1842 1845 1847 1865
UEA	2654 2696 2762 2774 2820 2835 3024 3706 4347 5003
UKN	3260
ULG	0308 0314
UNA	3886 4583 4732

SERVICE BULLETIN

OPERATOR	MSN
USA	0052 0053 0054 0055 0064 0065 0066 0067 0076 0077 0081 0082 0099 0317 0448 0565 0584 0762 0770 0803 0844 0856 0861 0863 0866 0868 0885 0889 0890 0896 0904 0922 0924 0929 0931 0953 0972 0997 1003 1019 1033 1038 1040 1043 1046 1049 1050 1051 1052 1055 1056 1061 1064 1065 1069 1075 1079 1083 1088 1095 1097 1109 1110 1111 1112 1114 1116 1122 1134 1135 1141 1148 1166 1178 1182 1196 1203 1205 1223 1224 1234 1245 1254 1264 1265 1268 1269 1274 1275 1281 1284 1287 1289 1294 1297 1298 1301 1310 1311 1313 1314 1315 1317 1319 1323 1326 1328 1331 1340 1342 1348 1350 1354 1358 1360 1369 1371 1373 1375 1378 1382 1389 1391 1393 1395 1397 1403 1406 1410 1412 1417 1419 1425 1431 1436 1442 1447 1455 1462 1463 1465 1472 1481 1490 1492 1496 1499 1517 1519 1521 1525 1527 1531 1534 1536 1539 1547 1552 1563 1565 1576 1621 1643 1644 1651 1666 1701 1704 1710 1724 1764 1792 1844 1935 2193 2302 2312 2405 2422 2430 2458 2482 2570 2595 2613 2615 2630 2669 2690 3584 3629 3633 3712 3740 3796 3858 3879 3881 3924 3928 3944 3960 3977 3989 3993 4025 4041 4050 4082 4086 4107 4123 4134 4149 4202 4242 4843 4847 4850 4885 4893 4898 4932 4935 4940 4957 4960 4966 5235 5244 5269 5282 5292 5300 5317 5332 5368 5374 5409 5422 5444 5475 5504 5513 5588 5594 5644 5659 5684 5696 5728
UTA	5681 5733
UZB	4371 4395 4417 4485 4492 4528 4651 4724 4770 4952
VIM	2457 2732 3125 4270 4305 5158
VJC	2712 3739 3791 4049 4190 4193 4475 4512
VKG	1881 1887 1889 1921 1932 1954 1960 1972
VLE	1226
VLG	0199 0240 0241 0264 0992 1171 1208 1210 1221 1349 1372 1396 1430 1461 1540 1550 1694 1736 1749 1862 1914 1933 1979 2168 2207 2223 2388 2407 2479 2589 2678 2761 2785 2794 2798 2843 2897 2962 2988 3083 3095 3109 3145 3151 3174 3203 3237 3293 3321 3376 3400 3529 3700 3704 3995 4128 4661 4681 4742 4849 4855 4937 5479 5530 5533 5587 5599 5612 5616 5620 5673
VLK	0422 0714 0730 1200 1213 1379
VOI	1140 1159 2204 2296 2657 2666 2771 2780 2979 2997 3045 3069 3077 3175 3252 3253 3279 3317 3450 3463 3491 3524 3543 3590 3624 3672 3705 4403 4422 4741 4798 4828 4832 4950 5062 5207 5212 5308 5322 5337 5391 5488 5510 5595 5651
VRD	2616 2674 2740 2773 2778 2800 2811 2830 2851 2993 3016 3037 3101 3135 3155 3181 3204 3230 3324 3347 3349 3359 3398 3417 3445 3460 3465 3503 3656 3670 3684 3686 4448 4480 4558 4559 4610 4616 4655 4805 4814 4851 4867 4894 4948 4959 4991 4999 5004 5034 5058 5179 5515
VRE	2213 2228
VVC	1306 1454 1564 1725 1867
WAU	3531 3741
WGT	1212
WHT	0726 1256 2440 2675
WRC	0235 0579 0645 0684 0760 0781 1869 2462 2682

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SERVICE BULLETIN

OPERATOR	MSN
WTJ	0548
WZZ	1834 1892 1902 2752 3127 3143 3166 3177 3354 3384 3409 3430 3562 3771 3807 3877 3927 3947 3968 4109 4174 4223 4246 4308 4323 4351 4372 4621 4628 4683 4716 4736 5021 5075 5123 5139 5196 5539 5604 5608 5615 5617 5660
XLf	0343

(4) Configuration by MSN

MSN	CONFIGURATION
0029 0045 0046 0047 0048 0049 0050 0051 0052 0053 0054 0055 0056 0057 0058 0059 0061 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 0093 0094 0095 0096 0097 0099 0103 0104 0109 0110 0111 0112 0113 0114 0115 0116 0117 0118 0119 0120 0121 0122 0123 0124 0125 0126 0127 0135 0136 0137 0138 0140 0141 0142 0145 0147 0148 0149 0150 0152 0153 0154 0155 0157 0158 0159 0160 0161 0162 0164 0165 0166 0167 0168 0169 0170 0171 0172 0173 0174 0175 0176 0178 0179 0181 0182 0183 0185 0189 0190 0192 0194 0195 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 0229 0230 0231 0232 0233 0234 0235 0236 0237 0239 0240 0241 0242 0243 0244 0245 0246 0248 0249 0250 0251 0252 0253 0254 0255 0256 0258 0259 0260 0261 0262 0263 0264 0265 0266 0267 0268 0269 0270 0272 0273 0274 0275 0276 0277 0278 0279 0281 0282 0283 0284 0285 0287 0289 0290 0291 0292 0293 0294 0295 0296 0297 0298 0299 0300 0301 0302 0303 0306 0307 0308 0309 0310 0311 0312 0314 0316 0317 0318 0319 0320 0321 0322 0323 0324 0325 0326 0328 0329 0330 0331 0332 0333 0334 0335 0339 0340 0341 0342 0343 0345 0346 0347 0348 0349 0350 0351 0353 0354 0355 0356 0357 0358 0359 0360 0361 0362 0364 0366 0367 0368 0369 0370 0371 0372 0373 0375 0376 0378 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 0426 0427 0428 0429 0430 0431 0432 0434 0435 0436 0438 0439 0440 0441 0442 0443 0444 0445 0446 0447 0448 0449 0450 0451 0452 0454 0455 0456 0457 0458 0459 0460 0461 0462 0463 0464 0465 0466 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 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 0616 0617 0618 0619 0620 0621 0622 0623 0624 0625 0626 0627 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	001

SERVICE BULLETIN

MSN	CONFIGURATION
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 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 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 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 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 1219 1220 1221 1222 1223 1224 1225 1226	001

SERVICE BULLETIN

MSN	CONFIGURATION
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 1599 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 1660 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 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 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 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791	001

SERVICE BULLETIN

MSN	CONFIGURATION
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 1939 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 1991 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 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 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364	001

SERVICE BULLETIN

MSN	CONFIGURATION
2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818 2819 2820 2821 2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2850 2851 2852 2853 2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2872 2873 2874 2875 2876 2877 2878 2879 2880 2881 2882 2883 2884 2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2896 2897 2898 2899 2900 2901 2902 2903 2904 2905 2906 2907 2908 2909 2910 2911 2912 2913 2914 2915 2916 2917 2918 2919 2920 2921 2922 2923 2924 2925 2926 2927 2928	001

SERVICE BULLETIN

MSN	CONFIGURATION
2929 2930 2931 2932 2933 2934 2935 2936 2937 2938 2939 2940 2941 2942 2943 2944 2945 2946 2947 2948 2949 2950 2951 2952 2953 2954 2955 2956 2957 2958 2959 2960 2961 2962 2963 2964 2965 2966 2967 2968 2969 2970 2971 2972 2973 2974 2975 2976 2977 2978 2979 2980 2981 2982 2983 2984 2985 2986 2987 2988 2989 2990 2991 2992 2993 2994 2995 2996 2997 2998 2999 3000 3001 3002 3003 3004 3005 3006 3007 3008 3009 3010 3011 3012 3013 3014 3015 3016 3017 3018 3019 3020 3021 3022 3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034 3035 3036 3037 3038 3039 3040 3041 3042 3043 3044 3045 3046 3047 3048 3049 3050 3051 3052 3053 3054 3055 3056 3057 3058 3059 3060 3061 3062 3063 3064 3065 3066 3067 3068 3069 3070 3071 3072 3073 3074 3075 3076 3077 3078 3079 3080 3081 3082 3083 3084 3085 3086 3087 3088 3089 3090 3091 3093 3094 3095 3096 3097 3098 3099 3100 3101 3102 3103 3104 3105 3106 3107 3108 3109 3111 3112 3113 3114 3115 3116 3117 3118 3119 3120 3121 3122 3123 3124 3125 3126 3127 3128 3129 3130 3131 3132 3133 3134 3135 3136 3137 3138 3139 3140 3141 3142 3143 3144 3145 3146 3147 3148 3149 3150 3151 3152 3153 3154 3155 3156 3157 3158 3159 3160 3161 3162 3164 3165 3166 3167 3168 3169 3170 3171 3172 3173 3174 3175 3176 3177 3178 3179 3180 3181 3182 3183 3184 3185 3186 3187 3188 3189 3190 3191 3192 3193 3194 3195 3196 3197 3198 3199 3200 3201 3202 3203 3204 3205 3206 3207 3208 3209 3210 3211 3212 3213 3214 3215 3216 3217 3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231 3232 3233 3234 3235 3236 3237 3238 3239 3240 3241 3242 3243 3244 3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265 3266 3267 3268 3269 3270 3271 3272 3273 3274 3275 3276 3277 3278 3279 3280 3281 3282 3283 3284 3285 3286 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298 3299 3300 3301 3302 3303 3304 3305 3306 3307 3308 3309 3310 3311 3312 3313 3314 3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 3341 3342 3343 3344 3345 3346 3347 3348 3349 3350 3351 3352 3353 3354 3355 3356 3357 3358 3359 3360 3361 3362 3363 3364 3365 3366 3367 3368 3369 3370 3371 3372 3373 3374 3375 3376 3377 3378 3379 3380 3381 3382 3383 3384 3385 3386 3387 3388 3389 3390 3391 3392 3393 3394 3395 3396 3397 3398 3399 3400 3401 3402 3403 3404 3405 3406 3407 3408 3409 3410 3411 3412 3413 3414 3415 3416 3417 3418 3419 3420 3421 3422 3423 3424 3425 3426 3427 3428 3429 3430 3431 3432 3433 3434 3435 3436 3437 3438 3439 3440 3441 3442 3443 3444 3445 3446 3447 3448 3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461 3462 3463 3464 3465 3466 3467 3468 3469 3470 3471 3472 3473 3474 3475 3476 3477 3478 3479 3480 3481 3482 3483 3484 3485 3486 3487 3488 3489 3490 3491 3492	001

SERVICE BULLETIN

MSN	CONFIGURATION
3493 3494 3495 3496 3497 3498 3499 3500 3501 3502 3503 3504 3505 3506 3507 3508 3509 3510 3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523 3524 3525 3526 3527 3528 3529 3530 3531 3532 3533 3534 3535 3536 3537 3538 3539 3540 3541 3542 3543 3544 3545 3546 3547 3548 3549 3550 3551 3552 3553 3554 3555 3556 3557 3558 3559 3560 3561 3562 3563 3564 3565 3566 3567 3568 3569 3570 3571 3572 3573 3574 3575 3576 3577 3578 3579 3580 3581 3582 3583 3584 3585 3586 3587 3588 3589 3590 3591 3592 3593 3594 3595 3596 3597 3598 3599 3600 3601 3602 3603 3604 3605 3606 3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 3618 3619 3620 3621 3622 3623 3624 3625 3626 3627 3628 3629 3630 3631 3632 3633 3634 3635 3636 3637 3638 3639 3640 3641 3642 3643 3644 3645 3646 3647 3648 3649 3650 3651 3652 3653 3654 3655 3656 3657 3658 3659 3660 3661 3662 3663 3664 3665 3666 3667 3668 3669 3670 3671 3672 3673 3674 3675 3676 3677 3678 3679 3680 3681 3682 3683 3684 3685 3686 3687 3688 3689 3690 3691 3692 3693 3694 3695 3696 3697 3698 3699 3700 3701 3702 3703 3704 3705 3706 3707 3708 3709 3710 3711 3712 3713 3714 3715 3716 3717 3718 3719 3720 3721 3722 3723 3724 3725 3726 3727 3728 3729 3730 3731 3732 3733 3734 3735 3736 3737 3738 3739 3740 3741 3742 3743 3744 3745 3746 3747 3748 3749 3750 3751 3752 3753 3754 3755 3756 3757 3758 3759 3760 3761 3762 3763 3764 3765 3766 3767 3768 3769 3770 3771 3772 3773 3774 3775 3776 3777 3778 3779 3780 3781 3782 3783 3784 3785 3786 3787 3788 3789 3790 3791 3792 3793 3794 3795 3796 3797 3798 3799 3800 3801 3802 3803 3804 3805 3806 3807 3808 3809 3810 3811 3812 3813 3814 3815 3816 3817 3818 3819 3820 3821 3822 3823 3824 3825 3826 3827 3828 3829 3830 3831 3832 3833 3834 3835 3836 3837 3838 3839 3840 3841 3842 3843 3844 3845 3846 3847 3848 3849 3850 3851 3852 3853 3854 3855 3856 3857 3858 3859 3860 3861 3862 3863 3864 3865 3866 3867 3868 3869 3870 3871 3872 3873 3874 3875 3876 3877 3878 3879 3880 3881 3882 3883 3884 3885 3886 3887 3888 3889 3890 3891 3892 3893 3894 3895 3896 3897 3898 3899 3900 3901 3902 3903 3904 3905 3906 3907 3908 3909 3910 3911 3912 3913 3914 3915 3916 3917 3918 3919 3920 3921 3922 3923 3924 3925 3926 3927 3928 3929 3930 3931 3932 3933 3934 3935 3936 3937 3938 3939 3940 3941 3942 3943 3944 3945 3946 3947 3948 3949 3950 3951 3952 3953 3954 3955 3956 3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968 3969 3970 3971 3972 3973 3974 3975 3976 3977 3978 3979 3980 3981 3982 3983 3984 3985 3986 3987 3988 3989 3990 3991 3992 3993 3994 3995 3996 3997 3998 3999 4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013 4014 4015 4016 4017 4018 4019 4020 4021 4022 4023 4024 4025 4026 4027 4028 4029 4030 4031 4032 4033 4034 4035 4036 4037 4038 4039 4040 4041 4042 4043 4044 4045 4046 4047 4048 4049 4050 4051 4052 4053	001

SERVICE BULLETIN

MSN	CONFIGURATION
4054 4055 4056 4057 4058 4059 4060 4061 4062 4063 4064 4065 4066 4067 4068 4069 4070 4071 4072 4073 4074 4075 4076 4077 4078 4079 4080 4081 4082 4083 4084 4085 4086 4087 4088 4089 4090 4091 4092 4093 4094 4095 4096 4097 4098 4099 4100 4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115 4116 4117 4118 4119 4120 4121 4122 4123 4124 4125 4126 4127 4128 4129 4130 4131 4132 4133 4134 4135 4136 4137 4138 4139 4140 4141 4142 4143 4144 4145 4146 4147 4148 4149 4150 4151 4152 4153 4154 4155 4156 4157 4158 4159 4160 4161 4162 4163 4164 4165 4166 4167 4168 4169 4170 4171 4172 4173 4174 4175 4176 4177 4178 4179 4180 4181 4182 4183 4184 4185 4186 4187 4188 4189 4190 4191 4192 4193 4194 4195 4196 4197 4198 4199 4200 4201 4202 4203 4204 4205 4206 4207 4208 4209 4210 4211 4212 4213 4214 4215 4216 4217 4218 4219 4220 4221 4222 4223 4224 4225 4226 4227 4228 4229 4230 4231 4232 4233 4234 4235 4236 4237 4238 4239 4240 4241 4242 4243 4244 4245 4246 4247 4248 4249 4250 4251 4252 4253 4254 4255 4256 4257 4258 4259 4260 4261 4262 4263 4264 4265 4266 4267 4268 4269 4270 4271 4272 4273 4274 4275 4276 4277 4278 4279 4280 4281 4282 4283 4284 4285 4286 4287 4288 4289 4290 4291 4292 4293 4294 4295 4296 4297 4298 4299 4300 4301 4302 4303 4304 4305 4306 4307 4308 4309 4310 4311 4312 4313 4314 4315 4316 4317 4318 4319 4320 4321 4322 4323 4324 4325 4326 4327 4328 4329 4330 4331 4332 4333 4334 4335 4336 4337 4338 4339 4340 4341 4342 4343 4344 4345 4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358 4359 4360 4361 4362 4363 4364 4365 4366 4367 4368 4369 4370 4371 4372 4373 4374 4375 4376 4377 4378 4379 4380 4381 4382 4383 4384 4385 4386 4387 4388 4389 4390 4391 4392 4393 4394 4395 4396 4397 4398 4399 4400 4401 4402 4403 4404 4405 4406 4407 4408 4409 4410 4411 4412 4413 4414 4415 4416 4417 4418 4419 4420 4421 4422 4423 4424 4425 4426 4427 4428 4429 4430 4431 4432 4433 4434 4435 4436 4437 4438 4439 4440 4441 4442 4443 4444 4445 4446 4447 4448 4449 4450 4451 4452 4453 4454 4455 4456 4457 4458 4459 4460 4461 4462 4463 4464 4465 4466 4467 4468 4469 4470 4471 4472 4473 4474 4475 4476 4477 4478 4479 4480 4481 4482 4483 4484 4485 4486 4487 4488 4489 4490 4491 4492 4493 4494 4495 4496 4497 4498 4499 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510 4511 4512 4513 4514 4515 4516 4517 4518 4519 4520 4521 4522 4523 4524 4525 4526 4527 4528 4529 4530 4531 4532 4533 4534 4535 4536 4537 4538 4539 4540 4541 4542 4543 4544 4545 4546 4547 4548 4549 4550 4551 4552 4553 4554 4555 4556 4557 4558 4559 4560 4561 4562 4563 4564 4565 4566 4567 4568 4569 4570 4571 4572 4573 4574 4575 4576 4577 4578 4579 4580 4581 4582 4583 4584 4585 4586 4587 4588 4589 4590 4591 4592 4593 4594 4595 4596 4597 4598 4599 4600 4601 4602 4603 4604 4605 4606 4607 4608 4609 4610 4611 4612 4613 4614	001

SERVICE BULLETIN

MSN	CONFIGURATION
4615 4616 4617 4618 4619 4620 4621 4622 4623 4624 4625 4626 4627 4628 4629 4630 4631 4632 4633 4634 4635 4636 4637 4638 4639 4640 4641 4642 4643 4644 4645 4646 4647 4648 4649 4650 4651 4652 4653 4654 4655 4656 4657 4658 4659 4660 4661 4662 4663 4664 4665 4666 4667 4668 4669 4670 4671 4672 4673 4674 4675 4676 4677 4678 4679 4680 4681 4682 4683 4684 4685 4686 4687 4688 4689 4690 4691 4692 4693 4694 4695 4696 4697 4698 4699 4700 4701 4702 4703 4704 4705 4706 4707 4708 4709 4710 4711 4712 4713 4714 4715 4716 4717 4718 4719 4720 4721 4722 4723 4724 4725 4726 4727 4728 4729 4730 4731 4732 4733 4734 4735 4736 4737 4738 4739 4740 4741 4742 4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760 4761 4762 4763 4764 4765 4766 4767 4768 4769 4770 4771 4772 4773 4774 4775 4776 4777 4778 4779 4780 4781 4782 4783 4784 4785 4786 4787 4788 4789 4790 4791 4792 4793 4794 4795 4796 4797 4798 4799 4800 4801 4802 4803 4804 4805 4806 4807 4808 4809 4810 4811 4812 4813 4814 4815 4816 4817 4818 4819 4820 4821 4822 4823 4824 4825 4826 4827 4828 4829 4830 4831 4832 4833 4834 4835 4836 4837 4838 4839 4840 4841 4842 4843 4844 4845 4846 4847 4848 4849 4850 4851 4852 4853 4854 4855 4856 4857 4858 4859 4860 4861 4862 4863 4864 4865 4866 4867 4868 4869 4870 4871 4872 4873 4874 4875 4876 4877 4878 4879 4880 4881 4882 4883 4884 4885 4886 4887 4888 4889 4890 4891 4892 4893 4894 4895 4896 4897 4898 4899 4900 4901 4902 4903 4904 4905 4906 4907 4908 4909 4910 4911 4912 4913 4914 4915 4916 4917 4918 4919 4920 4921 4922 4923 4924 4925 4926 4927 4928 4929 4930 4931 4932 4933 4934 4935 4936 4937 4938 4939 4940 4941 4942 4943 4944 4945 4946 4947 4948 4949 4950 4951 4952 4953 4954 4955 4956 4957 4958 4959 4960 4961 4962 4963 4964 4965 4966 4967 4968 4969 4970 4971 4972 4973 4974 4975 4976 4977 4978 4979 4980 4981 4982 4983 4984 4985 4986 4987 4988 4989 4990 4991 4992 4993 4994 4995 4996 4997 4998 4999 5000 5001 5002 5003 5004 5005 5006 5007 5008 5009 5010 5011 5012 5013 5014 5015 5016 5017 5018 5019 5020 5021 5022 5023 5024 5025 5026 5027 5028 5029 5030 5031 5032 5033 5034 5035 5036 5037 5038 5039 5040 5041 5042 5043 5044 5045 5046 5047 5048 5049 5050 5051 5052 5053 5054 5055 5056 5057 5058 5059 5060 5061 5062 5063 5064 5065 5066 5067 5068 5069 5070 5071 5072 5073 5074 5075 5076 5077 5078 5079 5080 5081 5082 5083 5084 5085 5086 5087 5088 5089 5090 5091 5092 5093 5094 5095 5096 5097 5098 5099 5100 5101 5102 5103 5104 5105 5106 5107 5108 5109 5110 5111 5112 5113 5114 5115 5116 5117 5118 5119 5120 5121 5122 5123 5124 5125 5126 5127 5128 5129 5130 5131 5132 5133 5134 5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158 5159 5160 5161 5162 5163 5164 5165 5166 5167 5168 5169 5170 5171 5172 5173 5174 5175	001

SERVICE BULLETIN

MSN	CONFIGURATION
5176 5177 5178 5179 5180 5181 5182 5183 5184 5185 5186 5187 5188 5189 5190 5191 5192 5193 5194 5195 5196 5197 5198 5199 5200 5201 5202 5203 5204 5205 5206 5207 5208 5209 5210 5211 5212 5213 5214 5215 5216 5217 5218 5219 5220 5221 5222 5223 5224 5225 5226 5227 5228 5229 5230 5231 5232 5233 5234 5235 5236 5237 5238 5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 5258 5259 5260 5261 5262 5263 5264 5265 5266 5267 5268 5269 5270 5271 5272 5273 5274 5275 5276 5277 5278 5279 5280 5281 5282 5283 5284 5285 5286 5287 5288 5289 5290 5291 5292 5293 5294 5295 5296 5297 5298 5299 5300 5301 5302 5303 5304 5305 5306 5307 5308 5309 5310 5311 5312 5313 5314 5315 5316 5317 5318 5319 5320 5321 5322 5323 5324 5325 5326 5327 5328 5329 5330 5331 5332 5333 5334 5335 5336 5337 5338 5339 5340 5341 5342 5343 5344 5345 5346 5347 5348 5349 5350 5351 5352 5353 5354 5355 5356 5357 5358 5359 5360 5361 5362 5363 5364 5365 5366 5367 5368 5369 5370 5371 5372 5373 5374 5375 5376 5377 5378 5379 5380 5381 5382 5383 5384 5385 5386 5387 5388 5389 5390 5391 5392 5393 5394 5395 5396 5397 5398 5399 5400 5401 5402 5403 5404 5405 5406 5407 5408 5409 5410 5411 5412 5413 5414 5415 5416 5417 5418 5419 5420 5421 5422 5423 5424 5425 5426 5427 5428 5429 5430 5431 5432 5433 5434 5435 5436 5437 5438 5439 5440 5441 5442 5443 5444 5445 5446 5447 5448 5449 5450 5451 5452 5453 5454 5455 5456 5457 5458 5459 5460 5461 5462 5463 5464 5465 5466 5467 5468 5469 5470 5471 5472 5473 5474 5475 5476 5477 5478 5479 5480 5481 5482 5483 5484 5485 5486 5487 5488 5489 5490 5491 5492 5493 5494 5495 5496 5497 5498 5499 5500 5501 5502 5503 5504 5505 5506 5507 5508 5509 5510 5511 5512 5513 5514 5515 5516 5517 5518 5519 5520 5521 5522 5523 5524 5525 5526 5527 5528 5529 5530 5531 5532 5533 5534 5535 5536 5537 5538 5539 5540 5541 5542 5543 5544 5545 5546 5547 5548 5549 5550 5551 5552 5553 5554 5555 5556 5557 5558 5559 5560 5561 5562 5563 5564 5565 5566 5567 5568 5569 5570 5571 5572 5573 5574 5575 5576 5577 5578 5579 5580 5581 5582 5583 5584 5585 5586 5587 5588 5589 5590 5591 5592 5593 5594 5595 5596 5597 5598 5599 5600 5601 5602 5603 5604 5605 5606 5607 5608 5609 5610 5611 5612 5613 5614 5615 5616 5617 5618 5619 5620 5621 5622 5623 5624 5625 5626 5627 5628 5629 5630 5631 5632 5633 5634 5635 5636 5637 5638 5639 5640 5641 5642 5643 5644 5645 5646 5647 5648 5649 5650 5651 5652 5653 5654 5655 5656 5657 5658 5659 5660 5661 5662 5663 5664 5665 5666 5667 5668 5669 5670 5671 5672 5673 5674 5675 5676 5677 5678 5679 5680 5681 5682 5683 5684 5685 5686 5687 5688 5689 5690 5691 5692 5693 5694 5695 5696 5697 5698 5699 5700 5701 5702 5703 5704 5705 5706 5707 5708 5709 5710 5711 5712 5713 5714 5715 5716 5717 5718 5719 5720 5721 5722 5723 5724 5725 5726 5727 5728 5729 5730 5732 5733	001

(5) Configuration definition

****CONF 001**

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

(6) Material Effectivity

MATERIAL	QTY PER A/C	SEE NOTES
Reidentified part set REIDD01	1	

B. CONCURRENT REQUIREMENTS

None

C. REASON

(1) History

Operational experience has shown that high temperature of the Trim Air Valve (TAV) actuator could affect the TAV operation. As a consequence, the reduction of TAV actuator temperature has been achieved by increasing the electrical motor resistance.

(2) Objective/Action

This Service Bulletin is published to advise all operators of the issue of the LIEBHERR Service Bulletin No. 1320A-21-01 which modifies three TAVs accordingly.

(3) Advantages

The accomplishment of this Service Bulletin will increase the reliability of the TAV actuator.

(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

Task 211213-831-848-001: Modification

(1) Remove the Trim Air Valves

(2) Modify the Trim Air Valves

(3) Install the Trim Air Valves

E. COMPLIANCE

(1) Classification

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

(2) Accomplishment Timescale

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

F. APPROVAL

The technical content of this document is approved under the authority of 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 211213-831-848-001: Modification	
Get Access	1.50
On Aircraft	
Remove the Trim Air Valves	1.00
Install the Trim Air Valves	1.50
Tests	0.50
Close-Up	1.50
TOTAL MANHOURS	6.00
ELAPSED TIME (HOURS)	6.00
Additional manhours related to Vendor SB; refer to:	
Modify the Trim Air Valves	LIEBHERR Service Bulletin No. 1320A-21-01

H. WEIGHT AND BALANCE

Not Changed

I. ELECTRICAL LOAD DATA

Not Changed

J. REFERENCES

Aircraft Maintenance Manual (AMM)	06-20-00 06-41-53 12-34-24 20-16-00 21-63-51
ATA Common Support Data Dictionary (CSDD), Chapter 2	
Elec. Std. Practices Manual (ESPM)	20-55-00
Vendor Service Bulletin (VSB)	LIEBHERR Service Bulletin No. 1320A-21-01

K. PUBLICATION AFFECTED

Illustrated Parts Catalog (IPC)	21-63-03
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L. INTERCHANGEABILITY/MIXABILITY

DESCRIPTION	OLD PART N°	NEW PART N°	INT	MIXABILITY	SEE NOTES
Trim Air Valve	1320A0000-01	1320A0000-02	02	YES	

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.

M. SPARES

Trim Air Valve 1320A0000-01

2. MATERIAL INFORMATION****CONF ALL****A. MATERIAL - PRICE AND AVAILABILITY****(1) Procurement Addresses**

Modification of removed equipment should be negotiated directly with LIEBHERR as per instructions given in LIEBHERR Service Bulletin No. 1320A-21-01.

(2) Price and Availability

No AIRBUS kit will be provided.

Refer to the LIEBHERR Service Bulletin No. 1320A-21-01 for the equipment modification sales terms.

B. INDUSTRY SUPPORT INFORMATION

Refer to the LIEBHERR Service Bulletin No. 1320A-21-01 for the industry support terms of the Vendor Service Bulletin parts and labor.

C. LIST OF COMPONENTS

No Kit

D. LIST OF MATERIALS - OPERATOR SUPPLIED

None

E. PARTS TO BE RE-IDENTIFIED BY OPERATOR

Reidentified part set REIDD01

ITEM	NEW PART N°	KEYWORD	ITEM	OLD PART N°	SEE NOTES
	1320A0000-02	VALVE		1320A0000-01	

F. TOOLING

None

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3. ACCOMPLISHMENT INSTRUCTIONS

Task 211213-831-848-001 - Modification

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

CAUTION: ALWAYS OBEY THE PRECAUTIONS THAT FOLLOW TO KEEP ELECTRICAL WIRING IN A SATISFACTORY CONDITION (ELECTRICALLY AND MECHANICALLY SERVICEABLE). WHEN YOU DO MAINTENANCE WORK, REPAIRS OR MODIFICATIONS, ALWAYS KEEP ELECTRICAL WIRING, COMPONENTS AND THE WORK AREA AS CLEAN AS POSSIBLE. TO DO THIS:

PUT PROTECTION, SUCH AS PLASTIC SHEETING, CLOTHS, ETC; AS NECESSARY ON WIRING AND COMPONENTS.

REGULARLY REMOVE ALL SHAVINGS, UNWANTED MATERIAL AND OTHER CONTAMINATION.

THESE PRECAUTIONS WILL DECREASE THE RISK OF CONTAMINATION AND DAMAGE TO THE ELECTRICAL WIRING INSTALLATION.

IN CASE OF CONTAMINATION REFER TO ESPM 20-55-00.

Task Associated Data

Zone	
140	
Modified FIN	
11HK 12HK 13HK	
Access	
Door	825
Manpower	
TOTAL MANHOURS	6.00
ELAPSED TIME (HOURS)	6.00
Additional manhours related to Vendor SB; refer to:	
LIEBHERR Service Bulletin No. 1320A-21-01	

A. GENERAL

(1) Subtask 211213-910-201-001 - Standard Practices

Manpower Resources	
Skills	NON SPECIFIC
References	
Aircraft Maintenance Manual (AMM)	06-20-00, Page Block 001 06-41-53, Page Block 001 Task 20-16-00-912-001

- (a) For the identification of zones, refer to AMM 06-20-00, Page Block 001.
- (b) For the identification of access panels, refer to AMM 06-41-53, Page Block 001.
- (c) For circuit breaker safety practices, refer to AMM Task 20-16-00-912-001.
- (d) Tag the parts that you must remove and retain to make the subsequent installation easier.
- (e) Put all the retained hardware in identified plastic bags and attach the bags to the related unit.

(2) Subtask 211213-839-201-001 - Administrative

Manpower Resources	
Skills	NON SPECIFIC

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

B. PREPARATION**(1) Subtask 211213-941-201-001 - Job Set-up**

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 12-34-24-869-002 Task 21-63-51-000-001

- (a) Make sure that the aircraft is electrically grounded, refer to AMM Task 12-34-24-869-002.
- (b) Do the Job Set-up procedure as given for the Removal of the Trim Air Valve (TAV), refer to AMM Task 21-63-51-000-001.

C. PROCEDURE**(1) Subtask 211213-020-201-001 - Remove the Trim Air Valves**

Work Zones and Access Panels			
	Zone	Access/Work location	
	140	Access	Door 825

Manpower Resources	
Manhours	1.00
Minimum number of person	1
Subtask elapsed time	1.00
Skills	AIRFRAME

SERVICE BULLETIN

References	
Aircraft Maintenance Manual (AMM)	Task 21-63-51-000-001

- (a) Remove the Trim Air Valves (TAV) 11HK, 12HK and 13HK, refer to AMM Task 21-63-51-000-001.

(2) Subtask 211213-831-201-001 - Modify the Trim Air Valves

Material necessary to do the job

Reidentified part set REIDD01					
ITEM	NEW PART N°	KEYWORD	ITEM	OLD PART N°	SEE NOTES
	1320A0000-02	VALVE		1320A0000-01	

References	
Vendor Service Bulletin (VSB)	LIEBHERR 1320A-21-01

- (a) Modify the Trim Air Valves (TAV) 11HK, 12HK and 13HK, refer to LIEBHERR Service Bulletin No. 1320A-21-01.
- (b) After the modification the Part Number (PN) of the TAV will change as given below:

1 TAV Cockpit

FIN 11HK

1	Trim Air Valve	1320A0000-01
---	----------------	--------------

will become

FIN 11HK

1	Trim Air Valve	1320A0000-02
---	----------------	--------------

2 TAV FWD Cabin

FIN 12HK

1	Trim Air Valve	1320A0000-01
---	----------------	--------------

will become

FIN 12HK

1	Trim Air Valve	1320A0000-02
---	----------------	--------------

3 TAV AFT Cabin

FIN 13HK

1	Trim Air Valve	1320A0000-01
---	----------------	--------------

will become

FIN 13HK

1	Trim Air Valve	1320A0000-02
---	----------------	--------------

(3) Subtask 211213-420-201-001 - Install the Trim Air Valves

Work Zones and Access Panels			
	Zone	Access/Work location	
	140	Access	Door 825

Manpower Resources	
Manhours	1.50
Minimum number of person	1
Subtask elapsed time	1.50
Skills	AIRFRAME

References	
Aircraft Maintenance Manual (AMM)	Task 21-63-51-400-001

- (a) Install the Trim Air Valves (TAV) 11HK, 12HK and 13HK, refer to AMM Task 21-63-51-400-001.

D. TEST**(1) Subtask 211213-700-201-001 - Test**

Manpower Resources	
Skills	AIRFRAME

References	
Aircraft Maintenance Manual (AMM)	Task 21-63-51-400-001

- (a) Do the Test procedure as given for the Installation of the Trim Air Valve (TAV), refer to AMM Task 21-63-51-400-001.

E. CLOSE-UP**(1) Subtask 211213-942-201-001 - Close-up**

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 21-63-51-400-001

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Do the Close-up procedure as given for the Installation of the Trim Air Valve (TAV), refer to AMM Task 21-63-51-400-001.

SERVICE BULLETIN
REPORTING SHEET**TITLE: AIR CONDITIONING - COCKPIT AND CABIN TEMPERATURE CONTROL
- INTRODUCE MODIFIED TRIM AIR VALVE**

MODIFICATION No.: 154549K16372

Please complete the appropriate item (A or B):

A - SB WILL BE embodied YES/NO (if NO please comment)

If YES, aircraft concerned (as per SB effectivity by default) and planned dates (month/year) of embodiment:

B - SB HAS BEEN embodied on aircraft:

Operator comments:

From Airline:

Name/Title:

Signature:

Date:

If operational documentation is affected (see Paragraph 1.K of this SB): If information is needed prior to next normal revision or prior to SB embodiment, please indicate required service(s):

Either: Modification Operational Impact (MOI), if available

YES/NO

Or : Intermediate revision

YES/NO

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

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

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

Please return this completed sheet to:

AIRBUS
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC CEDEX FRANCE

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FAX: (+33) 5 61 93 28 06
e-mail: sb.reporting@airbus.com
or via your Resident Customer Support Office.

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

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

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

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

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

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

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

Comments:

Operator:

Date:

Name/Title:

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