

SERVICE BULLETIN
SUMMARY

AIRBUS
CUSTOMER SERVICES DIRECTORATE
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This summary is for information only and is not approved for modification of the aircraft.

ATA SYSTEM: 21

**TITLE: AIR CONDITIONING - AIR COOLING - INTRODUCE INSULATION
COVER ON ALL OPTIONAL OZONE CONVERTERS**

****CONF ALL**

MODIFICATIONS

MODIFICATION CLASSIFICATION					
MAJOR	None				
MINOR	155206K17084				

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

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

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

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

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

GENERAL EVALUATION

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

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

6 DATE: Nov 26/13

SERVICE BULLETIN No.: A320-21-1214

REVISION No.: 00 - Nov 26/13

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SERVICE BULLETIN SUMMARY

MATERIAL PRICE INFORMATION

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

EFFECTIVITY

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

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

CONCURRENT REQUIREMENTS

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

Service Bulletin No. A320-21-1031
 A320-21-1119
 A320-21-1183
 A320-21-1205
 A320-21-1212

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

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

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

A318/A319/A320/A321

SERVICE BULLETIN SUMMARY

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

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

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

REFERENCES / REPERCUSSIONS

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

NATURE OF THE WORK

AIRCRAFT	YES
EQUIPMENT	YES
HARD	NO
SOFT	NO
OBRM	NO

MANPOWER

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

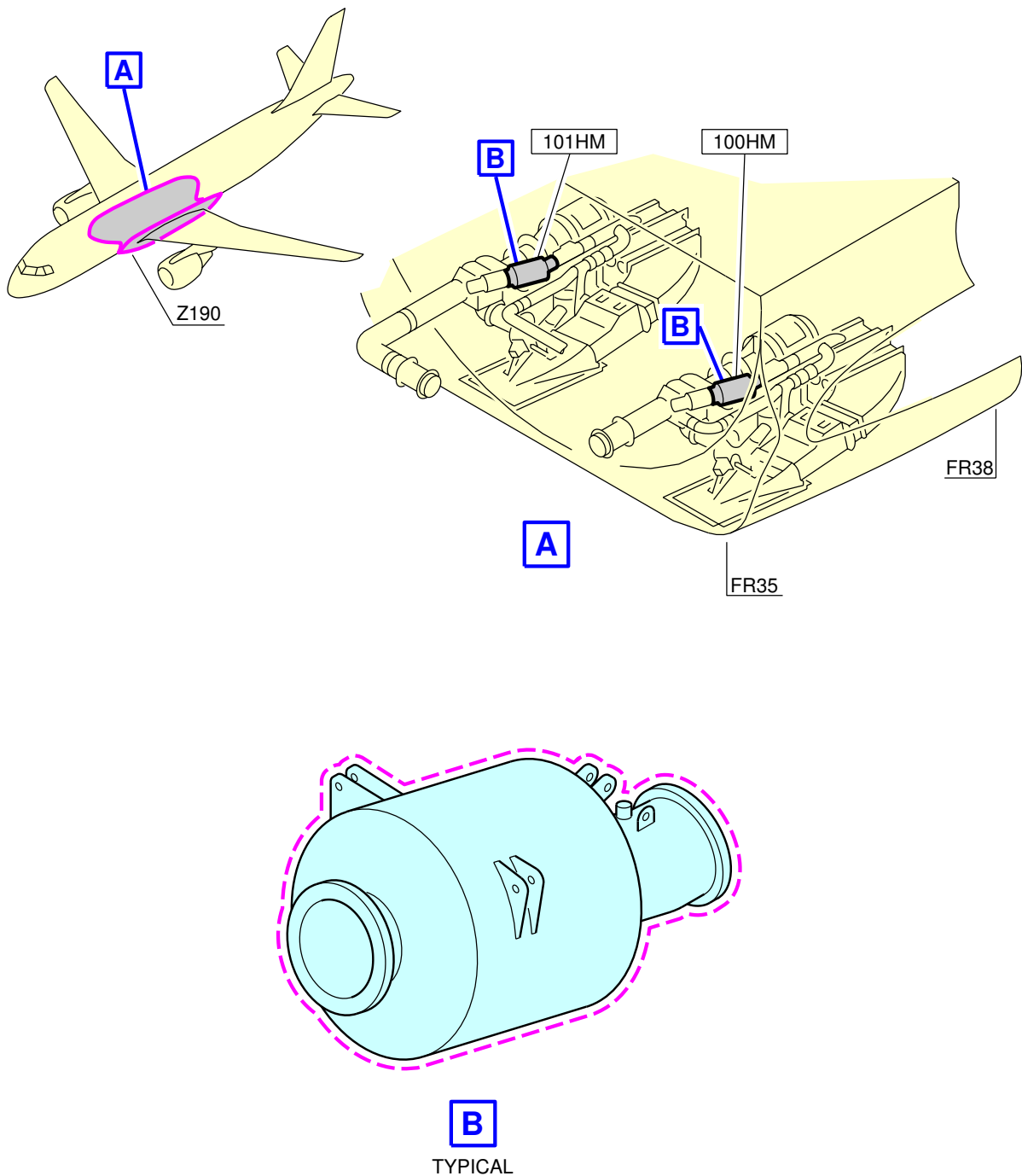
APPENDICES

None


A318/A319/A320/A321

SERVICE BULLETIN SUMMARY

****CONF ALL**



NOTE:

 AREA OF MODIFICATION.

N_SB_211214_6_SAAA_01_00

Figure A-GSAAA - Sheet 01

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COVER ON ALL OPTIONAL OZONE CONVERTERS**

MODIFICATION No.: 155206K17084

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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	321-131	321-211	321-212	321-231	321-232

(2) Effectivity by MSN

0029 0052-0055 0059 0064-0068 0073 0076-0077 0081-0082 0084-0085 0099 0118
0121-0122 0125-0127 0141 0149-0150 0152-0154 0159-0160 0164 0168 0171
0174-0175 0179 0183 0189-0190 0192 0197 0203 0206 0208 0210 0213 0220
0229-0235 0242-0243 0248-0251 0253-0255 0262-0263 0265 0272-0273 0277 0279
0281-0282 0284 0289-0292 0294 0297-0299 0301-0302 0306-0309 0311 0314
0317-0319 0324 0329-0335 0339-0343 0347 0349-0350 0354-0355 0357-0362 0367
0371-0373 0376 0378 0380-0381 0384 0386-0389 0391-0393 0395 0399-0400
0403-0410 0414-0415 0417-0418 0420 0422 0424 0426-0430 0435-0436 0439-0442
0444 0447-0450 0452 0454-0457 0460-0466 0470-0472 0475-0476 0479-0480 0483
0485 0487 0489 0491 0496-0497 0500 0503-0504 0506 0508 0510 0512 0523 0525
0527-0528 0530 0539-0540 0542-0543 0546 0548 0550-0551 0556-0558 0561 0565
0568 0571-0573 0575 0579-0580 0582 0584 0587-0589 0591-0592 0597 0604
0613-0614 0620 0630-0631 0633-0634 0638-0640 0644-0645 0647 0649 0653
0655-0657 0659-0661 0663 0666-0668 0670-0672 0674-0676 0678 0680 0682-0684
0686-0688 0690-0691 0693 0695 0697 0702 0707 0711 0714-0716 0719 0721

0724-0726 0728 0730 0732-0733 0735-0737 0739-0743 0747-0749 0751-0752
0756-0762 0764 0766 0769-0770 0772-0773 0775 0778-0781 0783-0788 0792 0795
0798-0805 0807-0808 0811 0813-0818 0820 0823-0826 0828-0832 0834-0836
0839-0847 0850-0851 0856-0858 0861-0863 0865-0868 0871 0873-0874 0877-0879
0882-0883 0885 0888-0890 0892-0893 0896 0898 0902-0904 0907-0908 0911-0916
0919 0922-0925 0927-0932 0934 0936 0941 0943-0944 0946 0948-0949 0952-0955
0961-0965 0972-0973 0976-0978 0980-0981 0983 0988-0991 0993 0996-0997 1001
1003-1008 1010-1011 1013 1015 1017 1019 1022 1024 1031 1033 1037-1038 1040
1042-1043 1046 1049-1053 1055-1056 1058 1060-1062 1064-1066 1069 1071-1073
1075 1077-1079 1083-1084 1088-1093 1095-1097 1103-1105 1107-1112 1114 1116
1121-1123 1126 1128-1131 1134-1136 1139-1141 1143 1146-1149 1152 1155-1156
1158-1159 1163-1164 1166-1167 1170-1171 1173-1175 1178 1182 1184-1185
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1229-1230 1233-1235 1238 1240-1241 1243 1245-1246 1248-1251 1254-1255 1257
1262-1266 1268-1270 1272 1274-1275 1277 1280-1282 1284-1294 1297-1298
1300-1304 1309-1311 1313-1315 1317-1319 1321 1323-1328 1331-1332 1334
1339-1343 1346-1348 1350-1356 1358-1360 1363-1364 1368-1369 1371-1373
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1408-1412 1414 1417 1419-1421 1425-1427 1429 1431-1432 1434-1436 1438
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1643-1644 1646-1654 1656-1657 1659 1662-1664 1666-1673 1676 1678-1680
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1912-1913 1915-1917 1920-1929 1931-1932 1934-1935 1937 1940-1945 1947-1957
1959-1963 1965-1968 1970-1978 1980 1982-1983 1986 1988-1990 1994-1997
2000-2020 2023-2024 2026 2028-2032 2039 2041-2042 2044-2048 2052 2054-2055
2060-2061 2063-2067 2069 2072 2075-2078 2080 2082 2084 2087 2089 2091-2093
2095-2097 2099 2102-2103 2105-2108 2110 2113-2114 2116-2118 2121-2126 2128
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4558-4559 4562-4565 4567 4569-4570 4572-4573 4575-4578 4580-4581 4586-4587
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4618-4619 4622-4623 4627 4629 4631-4632 4634 4638 4641-4644 4647-4648 4650
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4690 4694-4700 4702-4704 4706-4707 4709 4711 4713 4715 4718 4720 4722-4723
4727-4735 4737-4739 4741-4743 4745-4746 4748 4750-4751 4754-4756 4758
4760-4761 4763 4765 4767-4769 4773-4774 4776-4777 4779-4780 4782-4784

4788-4790 4794 4798-4799 4802 4805 4808-4811 4814-4817 4821-4828 4830-4833
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 4959-4962 4964 4966-4968 4970-4972 4974 4978 4981-4984 4987-4988 4990-4992
 4996 4998-5001 5003-5013 5015 5022-5026 5029-5031 5034-5035 5037-5038
 5040-5043 5047-5048 5051 5053 5055 5057-5058 5060-5063 5065-5066 5068-5072
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 5114-5115 5117-5119 5121 5125-5128 5131-5136 5140-5142 5144-5145 5147-5148
 5151-5154 5156 5158-5164 5166-5173 5175 5177-5180 5182-5185 5189 5191-5193
 5195 5197 5200 5202 5205 5207-5210 5212-5214 5216-5217 5219-5223 5225-5227
 5229 5233-5235 5237-5238 5240-5247 5251-5255 5257 5260 5263-5264 5266-5269
 5273-5275 5277-5282 5285-5288 5290 5292 5297 5299-5300 5302-5304 5306
 5308-5310 5312 5314 5316-5317 5321-5322 5324-5333 5336-5343 5345 5348-5351
 5354-5358 5360-5364 5367-5368 5370 5372-5374 5376-5380 5382 5384-5385
 5387-5389 5391-5396 5398-5399 5401-5410 5412 5415-5418 5422 5427 5429 5431
 5434 5438-5440 5443-5447 5450 5453-5459 5461-5462 5464-5467 5469-5471 5475
 5477-5481 5483-5485 5488 5490-5495 5499-5500 5503-5506 5508-5520 5522-5524
 5527-5528 5530 5533-5535 5538 5540-5541 5543-5549 5551 5554-5556 5558-5562
 5564 5567 5569 5571 5574-5575 5579 5582-5584 5586-5588 5591 5594-5595
 5597-5599 5602 5606-5607 5609 5611-5613 5616 5618 5620-5624 5626 5628 5630
 5632-5633 5636-5637 5640 5642-5657 5659 5661 5663 5665-5668 5670-5674
 5677-5681 5684 5686 5689 5691 5693 5695-5696 5698-5701 5704-5705 5707
 5709-5711 5713-5714 5716-5717 5720 5722-5724 5726 5728 5730 5732-5737
 5740-5741 5745-5746 5748-5756 5758-5761 5763-5765 5767-5770 5773-5774
 5776-5779 5781-5783 5786 5788-5791 5793 5795-5801 5803-5804 5808 5810
 5816-5819 5821 5823 5826-5827 5830-5832 5834 5836-5837 5840-5845 5848-5849
 5852 5854 5859-5862 5864-5865 5867-5868 5870 5873-5887 5890 5895-5896 5899
 5901-5902 5904 5907 5909-5913 5916 5919-5922 5924-5926 5929-5933 5935-5942
 5944-5947 5949-5950 5953-5958 5960-5961 5963-5970 5972-5978 5980 5982-5983
 5987-5989 5991 5994-5999 6002-6009 6012 6014 6016-6018 6020 6022 6024
 6026-6027 6029-6031 6033 6035 6037 6039-6046 6049-6050 6052-6053 6055 6057
 6059-6063 6065-6071 6073 6078-6079 6081-6083 6085 6087 6089-6090 6092 6094
 6097 6099-6100

(3) Effectivity by Operator

The Operator/MSN relationship is provided for information only and is correct at the time of issue in accordance with the information available to AIRBUS. Any future changes resulting from transfer of an aircraft from one operator to another will not be reflected in this list unless the Service Bulletin is revised for another reason.

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

SERVICE BULLETIN

OPERATOR	MSN
27V	3826
29S	0291 0292
31V	0164 0332 0420 0436
31X	4319
35T	5040
38W	1194
43S	4650
52T	1599
53X	6069
53Z	1468
56W	0250 0335
64S	0557 0597
66X	0230
69X	0449 0588 0733 0747
74T	2165 4228 4768
79W	3751
80X	2748
85T	0234
86W	0384
86Z	0168 0460 0461 0497 2874
89T	3356
90R	5963
91X	2837
93V	3932
95W	2949
96V	4470
98W	0441
AAF	0639 0808 0823 1006 1846 3136 3242 3289 3852 4589 4675 6012
AAL	5327 5678 5698 5704 5745 5753 5761 5781 5786 5788 5789 5798 5810 5827 5834 5842 5860 5884 5895 5904 5932 5938 5946 5955 5975 5983 5991 6020 6040 6046 6063 6070 6085 6094
AAR	0802 1174 1356 1670 1734 2041 2110 2226 2247 2290 2397 2459 2808 2840 3244 3297 3437 3483 3496 3641 3873 4112 4142 5035 5169 5173 5287 5350 5382 5462 5500 5636 5767 5774
AAY	1229 1255 1262 1288 1292 1318 1347 2224 2319 2387
ABL	1227 1636 1970 2045 2943
ABQ	3385 3388
ABY	2764 3246 3444 3476 3626 3802 3840 3925 4061 4243 4310
ACA	0059 0068 0073 0084 0122 0126 0127 0141 0149 0150 0154 0159 0174 0175 0183 0210 0231 0232 0233 0242 0248 0253 0254 0255 0265 0277 0284 0290 0309 0324 0330 0341 0378 0403 0404 0546 0572 0634 0656 0670 0672 0682 0688 0691 0693 0695 0697 0711 0719 0721 0728 0732 0736 0740 0742 0752 0757 0769 0773 0779 0785 0800 0813 0817 0829 0831 0840 0845 1562 1577 1602 1611 1623 1632 1638 1673 1719 1726 1742 1748 1772 1783 1811 1853 1864 1874 1940 2018 2145
ACI	2152

SERVICE BULLETIN

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

SERVICE BULLETIN

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

SERVICE BULLETIN

OPERATOR	MSN
CSN	1596 1614 1776 1788 1971 1974 1986 1995 2004 2008 2067 2080 2200 2203 2232 2273 2354 2361 2371 2408 2426 2435 2484 2505 2506 2511 2521 2530 2574 2579 2637 2667 2680 2689 2701 2708 2713 2714 2741 2743 2759 2767 2770 2772 2796 2809 2815 2824 2834 2855 2861 2877 2899 2901 2915 2936 2940 2948 2950 2960 2969 2971 2986 3020 3067 3075 3112 3144 3217 3241 3251 3258 3269 3311 3342 3459 3493 3507 3552 3566 3587 3645 3681 3764 3784 3828 3847 3860 3867 3890 3910 3920 3934 3938 3951 3959 3981 3983 3999 4003 4017 4036 4038 4071 4140 4172 4184 4189 4194 4205 4217 4224 4225 4230 4232 4248 4260 4266 4271 4274 4279 4290 4292 4299 4322 4325 4338 4341 4350 4362 4365 4369 4370 4387 4396 4416 4430 4456 4507 4550 4613 4671 4696 4751 4782 4794 4808 4836 4854 4864 4880 4883 4912 4919 4928 4982 5061 5151 5168 5170 5183 5202 5214 5225 5237 5268 5279 5288 5410 5480 5484 5503 5506 5534 5561 5564 5579 5602 5611 5655 5671 5693 5730 5736 5750 5756 5797 5817 5832 5837 5875 5890 5930 5945 5949 5976 6018 6049 6078
CSZ	2905 2935 3131 3153 3366 3440 3456 3599
CTV	0839 0892 1635 2598 2692 3861 4961 5351 5379 5394 5399 5415 5511 5541 5551 5556 5560 5571 5574 5597 5777 5830
CUA	5023
CYP	2108 2275 2334 2343 2359
D2F	0243 0251
DAL	0118 0121 0125 0152 0153 0160 0171 0192 0197 0206 0208 0213 0262 0263 0272 0273 0281 0282 0297 0298 0306 0307 0318 0319 0329 0339 0340 0355 0358 0360 0367 0372 0380 0381 0387 0388 0399 0408 0410 0417 0418 0766 0778 0786 0801 0807 0818 0830 0832 0846 0903 0907 0911 0923 0962 0964 0981 0988 0996 1011 1037 1058 1062 1191 1230 1249 1324 1325 1346 1392 1414 1434 1453 1456 1483 1498 1501 1520 1535 1543 1549 1567 1570 1582 1633 1641 1646 1659 1662 1683 1685 1693 1709 1714 1738 1746 1752 1766 1774 1789 1796 1800 1810 1812 1815 1820 1824 1828 1833 1839 1875 1897 1923 1959 1976 1982 1990 2002 2013 2026 2039 2047 2082 2087 2092 2095
DCS	1053 3243
DKH	2975 3027 3234 3268 3368 3485 3596 3605 3967 3984 4064 4102 4154 4276 4401 4429 4573 4587 4652 4833 4840 4981 5013 5070 5071 5131 5226 5329 5339 5455 5491 5674 5737 5876
DLH	5741 5769 5831 5935 5972 6006 6033 6092
DNV	1630 1805 1808 1841 2241 2751
EAA	0386
EDW	2024
EIN	1983 2001 2191 2206 2217 2374 2399 2409 2432 2542 2583 2635 3129 3318 3345 3501 3857 4572 4634 4678 4715
ETD	0350 1140 1159 1944 1945 1947 1955 2167 3693 3713 3902 4066 4077 4124 4934 5095 5348 5407 5714 5791 5821 5836 5882 5924
ETJ	0428
EVA	3363 5328 5354 5377 5485 5808 5849 6024 6042 6087
EVE	5642

SERVICE BULLETIN

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

SERVICE BULLETIN

OPERATOR	MSN
IYE	4653 4690
JAS	5478
JAT	3252
JAV	0029 2061
JBU	1123 1156 1173 1235 1240 1257 1270 1280 1302 1327 1398 1446 1452 1506 1528 1546 1557 1610 1650 1705 1739 1784 1785 1849 1861 1898 1904 1915 1917 1927 1948 2006 2020 2031 2042 2063 2075 2099 2125 2132 2136 2149 2150 2159 2160 2177 2201 2215 2231 2246 2259 2280 2284 2286 2307 2314 2336 2352 2368 2384 2386 2415 2447 2449 2461 2489 2491 2504 2520 2535 2577 2580 2640 2647 2671 2710 2725 2755 2781 2802 2814 2832 2848 2871 2880 2900 2945 2970 2977 2992 3029 3039 3072 3091 3119 3150 3190 3228 3263 3287 3348 3381 3416 3451 3479 3488 3517 3554 3572 3622 3659 3707 3724 3760 3800 3811 4578 4612 4647 4904 5060 5142 5148 5302 5312 5349 5417 5677 5723 5782 5783 5854 5865 5909 5960 6031
JJP	5093 5145 5161 5245 5274 5281 5355 5492 5499 5520 5598 5618 5649 5695 5701 5717 5732 5796 5877 5885 5940
JSA	2316 2356 2423 2453 2604
JST	1195 1408 2169 2185 2197 3474 3495 3547 3668 3743 3783 3899 3916 3917 3948
KAC	2046 3957
KCA	0407
KFR	2650
KGL	0663 0668 0787 0954 1060 1293 2029 2077
KHO	0354 0376 0414
KHV	2480 5343 5427
KKK	0604 0614 0675 0761 1438 1451 1503 1730 1950 1953 2747 2753
KMF	0480
KNE	2123 2776 3218 3238 3256 3361 3396 3425 3475 3787 3817 3868 3889 3894 3933 4055 4735 5716
KZR	1042 1204 2828 3141 3484 3519 3614 5357 5401 5404 5613 5734 5870 5968 6029 6037
LAA	4405 4450 4490 4526 5373 5405 5494
LAN	1304 1332 1351 1355 1491 1512 1526 1548 1568 1626 1854 1858 1877 1903 2089 2096 2295 2304 2321 2572 2585 2845 2858 2864 2872 2886 2887 2892 2894 3264 3280 3319 3330 3535 3556 3663 3671 3770 3772 3779 4383 4400 4439 4476 4509 4516 4543 4546 4549 4563 4576 4597 4598 4605 4657 4697 4758 4767 4815 4839 4871 4892 4896 4921 4943 4972 5005 5097 5125 5178 5213 5229 5234 5263 5316 5324 5364 5408 5443 5453 5483 5493 5548 5554 5583 5586 5686 5707 5764 5801 5818 5859 5879 5902 5929 5950 5965 5995 6026 6055 6065
LAO	5356 5396
LBT	0400 1121 1175 1597 1744 3480 4623
LBY	0558 0561 1727 2277
LFO	0659
LJB	3985

SERVICE BULLETIN

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

A318/A319/A320/A321

SERVICE BULLETIN

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

SERVICE BULLETIN

OPERATOR	MSN
TAE	0657 0934 0946 0949 1339 1368 1934 2084 2659
TAI	1066 1334 1598 1625 1952 2282 2301 2339 2434 2444 2553 2610 2687 2862 2917 3042 3057 3103 3113 3248 3276 3378 3418 3510 3538 3577 3581 3869 4906 4944 5068 5219 5238 5280 5333 5406 5840 5936 5944 6002 6068 6099
TAK	2700 2763 3171 3331
TAM	0334 0440 0976 1010 1092 1096 1103 1139 1143 1158 1215 1246 1251 1376 1459 1486 1518 1575 1580 1591 1593 1595 1608 1613 1628 1652 1663 1672 1692 1703 1717 1757 1771 1775 1801 1802 1804 1818 1825 1826 1827 1831 1832 1835 1837 1855 1857 1888 1891 2014 2044 2372 2393 2467 2513 2661 2734 2737 2784 2838 2859 2896 2904 2924 3002 3032 3035 3047 3058 3111 3156 3180 3211 3222 3229 3240 3266 3278 3284 3294 3313 3325 3391 3540 3565 3588 3594 3595 3630 3658 3662 3710 3727 3733 3750 3761 3816 3908 3972 4000 4163 4171 4192 4320 4352 4358 4389 4441 4446 4465 4544 4570 4662 4734 4756 4773 4953 4974 5066 5101 5107 5109 5184 5209 5222 5240 5342 5345 5528 5591 5621 5643 5654 5666 5748 5749 5752 5845 5883 5947 5987 6097
TAP	1667 1756 1765 2178 3769 3883 4021 4095 4106 4145
TBZ	0361 0362 0405
TCW	0653 1787 1929 1975 2362
TCX	1238 1250 1942 1961 1965 2060 2114
THY	1856 1909 1996 2156 2164 2395 2401 2404 2414 2452 2522 2602 2609 2626 2631 2655 2738 2739 2823 2868 2928 2934 2941 2984 2999 3010 3015 3126 3142 3185 3207 3208 3239 3257 3283 3303 3341 3350 3405 3429 3525 3539 3558 3567 3603 3654 3718 3719 3896 3931 3949 4629 4643 4654 4665 4682 4695 4698 4706 4755 4761 4774 4779 4788 4790 5077 5083 5118 5154 5205 5254 5388 5450 5465 5490 5546 5584 5633 5663 5667 5689
TJS	4169
TNA	5055 6009
TVS	4699
UAE	4822
UAL	0435 0439 0442 0450 0452 0454 0456 0457 0462 0463 0464 0465 0470 0472 0475 0479 0483 0485 0487 0489 0500 0503 0504 0506 0508 0510 0512 0523 0539 0568 0571 0587 0589 0592 0613 0638 0655 0678 0683 0686 0690 0702 0748 0751 0759 0780 0783 0788 0798 0804 0820 0824 0825 0826 0834 0836 0842 0843 0847 0850 0851 0858 0862 0865 0867 0871 0873 0882 0893 0898 0944 0948 0952 0955 0965 0980 0989 1001 1022 1031 1104 1105 1128 1146 1163 1192 1211 1243 1248 1266 1272 1282 1290 1291 1321 1341 1343 1359 1363 1401 1409 1420 1426 1427 1432 1435 1460 1469 1474 1475 1477 1495 1507 1508 1514 1522 1533 1538 1545 1555 1559 1569 1573 1581 1584 1585 1586 1600 1609 1617 1620 1627 1647 1649 1653 1664 1669 1671 1680 1688 1702 1728 1731 1737 1741 1755 1821 1840 1842 1845 1847 1865
UEA	2654 2696 2762 2774 2820 2835 3024 3706 4347 5003 5252
UKN	3260
ULG	0308 0314

SERVICE BULLETIN

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

A318/A319/A320/A321

SERVICE BULLETIN

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

(4) Configuration by MSN

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

SERVICE BULLETIN

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

SERVICE BULLETIN

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

SERVICE BULLETIN

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

SERVICE BULLETIN

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

SERVICE BULLETIN

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

SERVICE BULLETIN

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

(5) Configuration definition

****CONF 001**

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

(6) Material Effectivity

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

B. CONCURRENT REQUIREMENTS

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

Service Bulletin No. A320-21-1031
 A320-21-1119
 A320-21-1183
 A320-21-1205
 A320-21-1212

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

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

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

SERVICE BULLETIN

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

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

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

C. REASON**(1) History**

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

(2) Objective/Action

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

(3) Advantages

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

(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

Task 211214-831-848-001: Modification

- (1) Disconnect the Tie-Rod from the Ozone Converter 100HM
- (2) Disconnect the Tie-Rod from the Ozone Converter 101HM
- (3) Install the Insulation Cover on the Ozone Converter 100HM and 101HM

E. COMPLIANCE

(1) Classification

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

(2) Accomplishment Timescale

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

F. APPROVAL

The technical content of this document is approved under the authority of Design Organization Approval No. EASA.21J.031.

If an aircraft listed in the effectivity has a modification or repair embodied that is not of AIRBUS origin, and which affects the content of this Service Bulletin, the operator is responsible for obtaining approval by its airworthiness authority for any adaptation necessary before incorporation of the Service Bulletin.

G. MANPOWER

The manpower estimates given in this Service Bulletin are based on the direct labor cost to do the work. These estimates assume that the work will be done by experienced personnel, and may need to be revised upwards to suit operator's circumstances. The estimates do not include the time to prepare, plan or inspect the work. Manufacture and procurement of parts and tools, drying times for paints, sealants, etc., and general administration work are also not included.

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

H. WEIGHT AND BALANCE

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

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

I. ELECTRICAL LOAD DATA

Not Changed

J. REFERENCES

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

K. PUBLICATION AFFECTED

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

L. INTERCHANGEABILITY/MIXABILITY

Not Applicable

M. SPARES

None

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

Customers with aircraft shown in the effectivity of this Service Bulletin should send a purchase order to AIRBUS. Quote the number of this Service Bulletin. The address is:

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

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

The availability given above is the standard lead time from the date of your purchase order. If items are required before this time, please include a retrofit planning schedule with your order so that we can try to comply with your requirements.

The sales terms (costs and availability) are estimated in relation to economic conditions. The latest valid price and lead time for ordering purposes shall be obtained through the AirbusSpares portal or through a request for quotation to airbus.kit@airbus.com.

B. INDUSTRY SUPPORT INFORMATION

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

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

C. LIST OF COMPONENTS

Kit 211214D01R01

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

NOTE: If you find part numbers of hardware components in the related kit(s) which you cannot identify in the LIST OF COMPONENTS of this Service Bulletin, refer to Standards Manual (SM). The SM will give you the correct part number to part number relationship.

D. LIST OF MATERIALS - OPERATOR SUPPLIED

None

E. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None

F. TOOLING

None

3. ACCOMPLISHMENT INSTRUCTIONS**Task 211214-831-848-001 - Modification**

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

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

- PUT PROTECTION, SUCH AS PLASTIC SHEETING, CLOTHS, ETC; AS NECESSARY ON WIRING AND COMPONENTS.
- REGULARLY REMOVE ALL SHAVINGS, UNWANTED MATERIAL AND OTHER CONTAMINATION.

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

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

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

NOTE: The access and close-up instructions, not comprising return to service tests, in this Service Bulletin do not constitute or affect the technical intent of the Service Bulletin. Operators can therefore, as deemed necessary, omit or add access and/or close-up steps to add flexibility to their maintenance operations as long as the technical intent of the Service Bulletin is met within the set parameters.

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

Task Associated Data

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

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

Manpower Resources	
Skills	NON SPECIFIC

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

- (a) For the Frame (FR) identification, refer to AMM 06-31-53, Page Block 001.
- (b) For the identification of zones, refer to AMM 06-20-00, Page Block 001.
- (c) For the identification of access panels, refer to AMM 06-41-53, Page Block 001.
- (d) Remove and install fasteners in accordance with AMM 51-42-00.
- (e) To torque tighten the standard threaded fasteners, refer to AMM Task 20-21-11-911-001.

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

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

Manpower Resources	
Skills	NON SPECIFIC

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

- (a) The following items shall be considered as the basic Aircraft configuration before you start a maintenance task:
 - Aircraft on the ground resting on landing gear (the ground safety locks and the wheel chocks are in position on the landing gear).
 - Engine shut down, thrust reversers closed and locked.
 - Aircraft in clean configuration.
 - Parking brake applied.

- Aircraft electrical network de-energized.
 - Hydraulic systems depressurized.
 - Access to the cockpit and cabin is available.
 - All circuit breakers are in closed position.
 - All controls in NORM, AUTO or OFF position.
- (b) Make sure that the aircraft is electrically grounded, refer to AMM Task 12-34-24-869-002.
- (c) Put a warning notice in position in the cockpit to tell persons not to operate the APU BLEED and the ENG 1 BLEED and the ENG 2 BLEED pushbutton switches.
- (d) On the HP ground connector put a warning notice in position to tell persons not to supply the ground air.
- (e) Remove the access panels 191BB, 191KB, 192FB and 192KB, refer to AMM Task 53-35-13-000-002.

C. PROCEDURE

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

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

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

References	
Fig. A-GBAAA Installation of Insulation Cover on the Ozone Converters 100HM and 101HM	Sheet 01

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

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

1 Remove:

1	Nut	MS21043-3	Item (3)	Discard
1	Washer	ASNA0113-48CA	Item (4)	Retain

1 Bolt NAS6704U10 Item (5) Retain

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

(2) Subtask 211214-831-203-001 - Disconnect the Tie-Rod from the Ozone Converter 101HM

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

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

References	
Fig. A-GBAAA Installation of Insulation Cover on the Ozone Converters 100HM and 101HM	Sheet 01

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

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

1 Remove:

1 Nut MS21043-3 Item (3) Discard

1 Washer ASNA0113-48CA Item (4) Retain

1 Bolt NAS6704U10 Item (5) Retain

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

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

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

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

Material necessary to do the job

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

References	
Fig. A-GBAAA Installation of Insulation Cover on the Ozone Converters 100HM and 101HM	Sheet 01

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

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

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

1 Install:

1 Insulation Cover D2157230002200 Item 1

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

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

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

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

3 Tie-Wrap NSA935401-12 Item 2

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

1 Bolt NAS6704U10 Item (5) Retained at removal

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

1 Nut MS21043-3 Item 3

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

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

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

- 1 Install:
 - 1 Insulation Cover D2157230002200 Item 1
 - 2 Overlap the insulation cover at the ends of the ozone converter.
 - 3 Attach the hook and loop tape around the ozone converter to secure the insulation cover, Item 1.
- NOTE: Make sure that the hook and loop tape is correctly fastened.
- 4 Install the tie wrap, Item 2, around the ends of the insulation cover, Item 1:
 - 3 Tie-Wrap NSA935401-12 Item 2
 - 5 Re-connect the ozone converter to the tie-rod with:
 - 1 Bolt NAS6704U10 Item (5) Retained at removal
 - 1 Washer ASNA0113-48CA Item (4) Retained at removal
 - 1 Nut MS21043-3 Item 3

D. TEST

None

E. CLOSE-UP

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

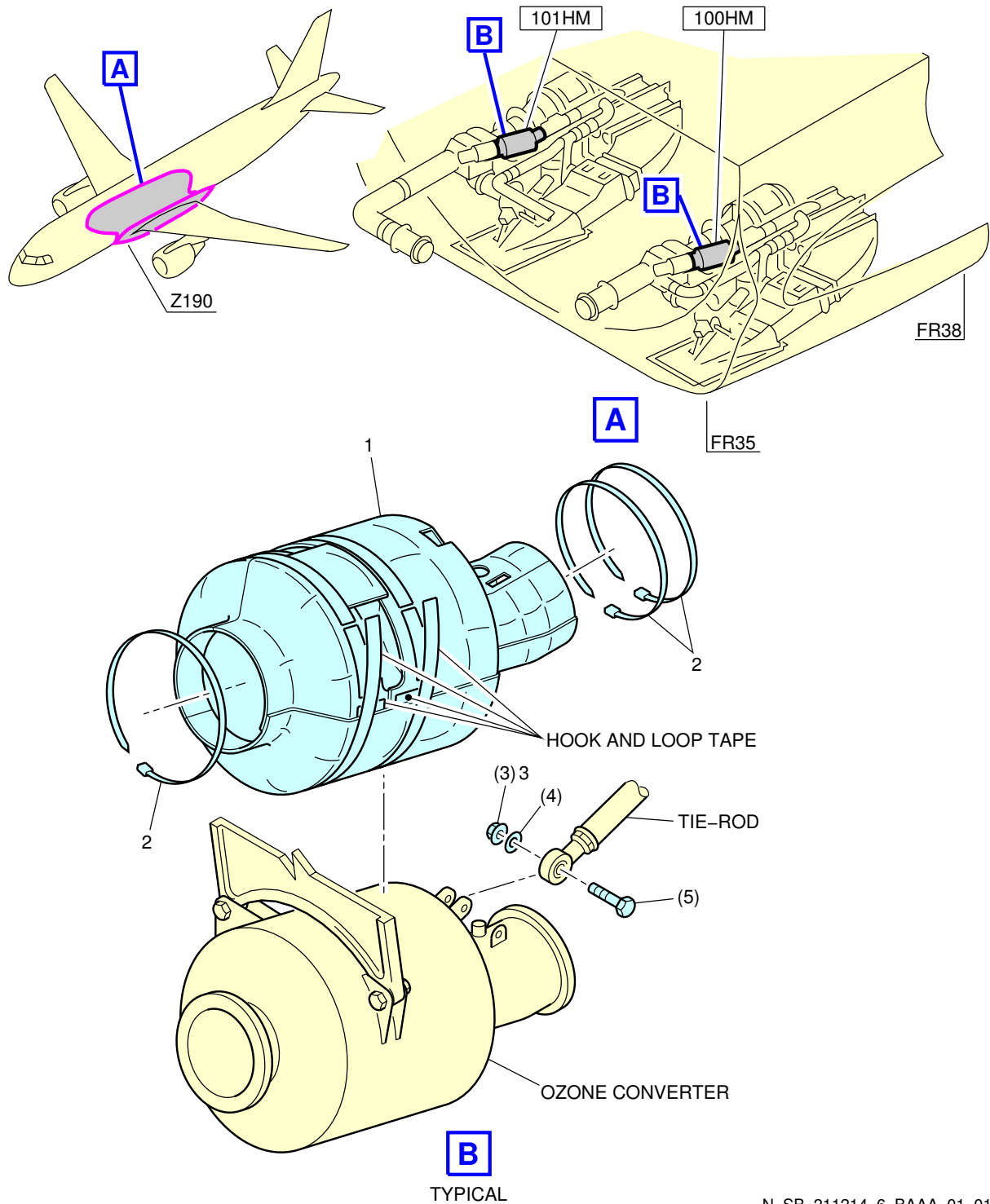
Work Zones and Access Panels			
	Zone	Access/Work location	
	191	Access	Panel 191BB, Panel 191KB
	192	Access	Panel 192FB, Panel 192KB

Manpower Resources	
Skills	AIRFRAME

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

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Install the access panels 191BB, 191KB, 192FB and 192KB, refer to AMM Task 53-35-13-400-002.
- (c) Remove the warning notice(s).

****CONF ALL**



N_SB_211214_6_BAAA_01_01

Figure A-GBAAA - Sheet 01
Installation of Insulation Cover on the Ozone Converters 100HM and 101HM

**TITLE: AIR CONDITIONING - AIR COOLING - INTRODUCE INSULATION
COVER ON ALL OPTIONAL OZONE CONVERTERS**

MODIFICATION No.: 155206K17084

Please complete the appropriate item (A or B):

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

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

B - SB HAS BEEN embodied on aircraft:

Operator comments:

From Airline:

Name/Title:

Signature:

Date:

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

Either: Modification Operational Impact (MOI), if available

YES/NO

Or : Intermediate revision

YES/NO

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

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

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

Please return this completed sheet to:

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

Attn: SDC32 Technical Data and Documentation Services
FAX: (+33) 5 61 93 28 06
e-mail: sb.reporting@airbus.com
or via your Resident Customer Support Office.

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

SERVICE BULLETIN
QUALITY PERCEPTION FORM

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

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

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

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

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

Planning	Material	Instructions
X Effectivity	X Kit content	X Preparation
X Reason	X List of Materials 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:

Please return this form to:

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1 Rond Point Maurice Bellonte
31707 BLAGNAC CEDEX FRANCE

Attn : SEM4 Service Bulletins Management
FAX : (33) 5 61 93 42 51

Or via your Resident Customer Support Office.