

Seal Dynamics

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Instructions for Continued Airworthiness

Bleed Air Coupling Sleeve Kit used on Embraer Model EMB-135 & EMB-145 Series Aircraft

Report Number: SD3132012IFCA

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Log of Revisions

<u>Revision</u>	<u>Description</u>	<u>Date</u>	<u>Approval</u>
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1.0 Purpose

The purpose of this report is to address FAR Part 25, Appendix H, Instructions for Continued Airworthiness, as each requirement pertains to the installation of Seal Dynamics Bleed Air Coupling Sleeve Kit on Embraer Model EMB-135 & EMB-145 Series Aircraft and showing compliance with FAR 25.1529.

2.0 General Description

Seal Dynamics has been working with Express Jet Airlines on a way of improving the performance of the bleed air duct system. As a recurring problem, the bleed air duct couplings have leakage problems due to the nature of the expansion and contraction of the bleed duct lines at the joints or couplings on the Embraer EMB-135 & EMB-145 Series Aircraft. Seal Dynamics, in conjunction with the efforts of Continental Express jet, has developed a new metal sleeve with two o-rings that can be inserted into the existing bleed air duct joints or couplings to further help prevent bleed air leakage thus reducing or eliminating aircraft turn backs and flight cancelations. The installation of the new metal sleeves will not adversely affect bleed air system performance while providing extra bleed air duct coupling sealing redundancy albeit small and localized duct cross section area reductions due to addition of the sleeves.

3.0 Distribution

This document is an integral part of the STC and Seal Dynamics FAA-PMA data package for the installation of the Bleed Air Coupling Sleeve Kit on Embraer Model EMB-135 or EMB-145 Series Aircraft. Seal Dynamics will furnish at least one complete copy of this document to the aircraft operator at the time of the FAA-PMA issuance. Seal Dynamics will authorize the aircraft operator to make this document available to any person required to comply with any of the terms contained in this document.

Seal Dynamics will be responsible to inform the aircraft operator of any revisions incorporated in this document and advise the operator how to obtain the latest revisions as they become available.

4.0 Introduction

The STC modification is applicable to Embraer Model EMB-135 & EMB-145 Series Aircraft. Seal Dynamics Bleed Air Coupling Sleeve Kit includes a complete aircraft set of Sleeves and O-Rings sufficient to cover modification of the applicable 1-1/2", 2" and 2-1/2" line size bleed air duct couplings located within the fuselage bleed air distribution system. STC installation will most likely be accomplished during normally scheduled "C" check inspections.

Existing instructions for continued airworthiness (IFCA) contained in Aircraft Maintenance Manuals (AMM), Service Bulletins (SB), Service News Letters (SNL) and Parts Information Letters (PIL) specifically relating to the bleed air duct couplings and their primary O-Ring seals remain valid for use. This document provides additional IFCA relating to the STC modification.

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5.0 Kit Description

Seal Dynamics Bleed Air Coupling Sleeve Kit part number T30000SD consists of two (2) Sleeves part number T30015SD with four (4) mating O-Rings part number S30015SD; twenty one (21) Sleeves part number T30020SD with forty two (42) mating O-Rings part number S30020SD and five (5) Sleeves part number T30025SD with ten (10) mating O-Rings part number S30025SD.

6.0 Servicing

No specific time interval for servicing is required however as a pre-cautionary measure it is recommended that upon any bleed air duct coupling dis-assembly event the internal sleeve should be removed, cleaned and inspected for wear or damage. Upon re-assembly install new O-Rings with Krytox XHT-BDX lubricant.

7.0 Maintenance Instructions

Replacement of the bleed air duct coupling internal Sleeves & O-Rings can be accomplished following the general procedures outlined in the Aircraft Maintenance Manual and related Service Bulletins. Special attention should be directed to cleaning mating surfaces and verify that flange lead-in edges are relieved, smooth and free of burrs. Upon assembly apply Krytox XHT-BDX lubrication to O-Rings. Representative bleed air duct coupling designs, Threaded and Clamped, are illustrated in Figure 1 and 2 respectively. A sectioned view through an assembled threaded coupling is illustrated in Figure 3.

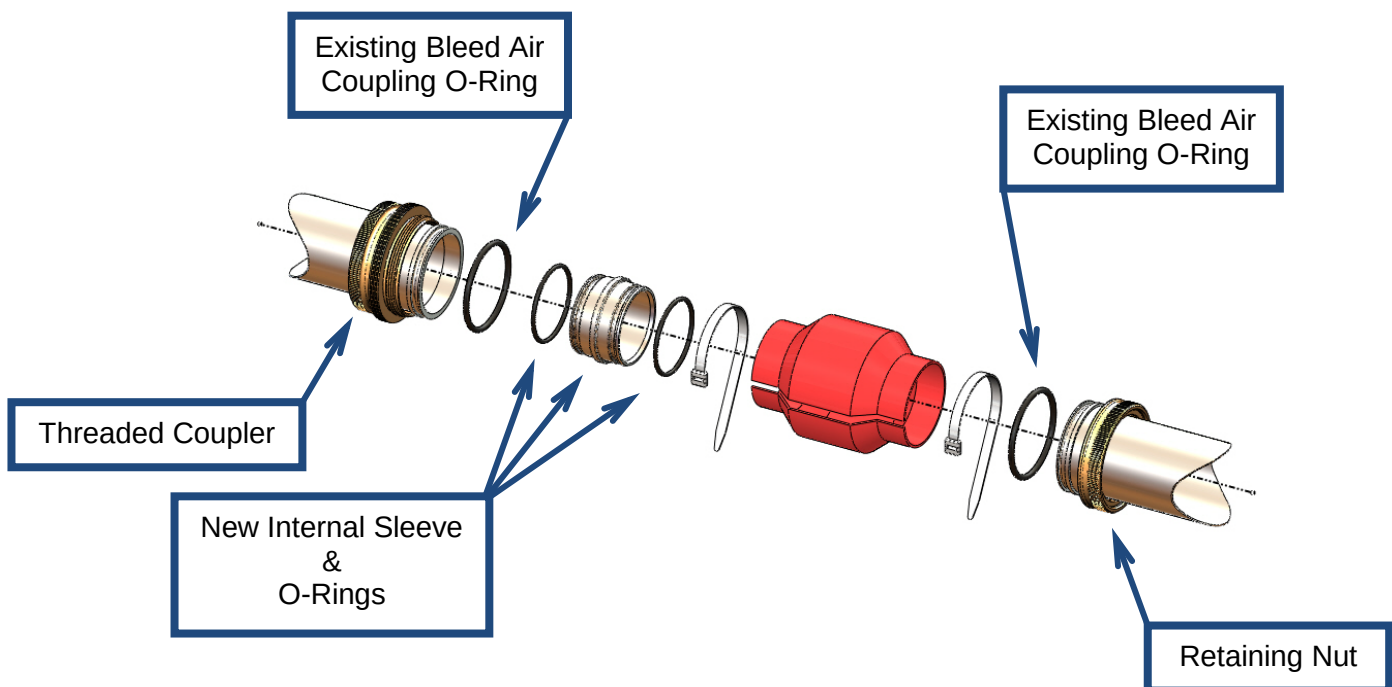


Figure 1
Bleed Air Duct Coupling
Flanged Design with Threaded Coupler & Retaining Nut

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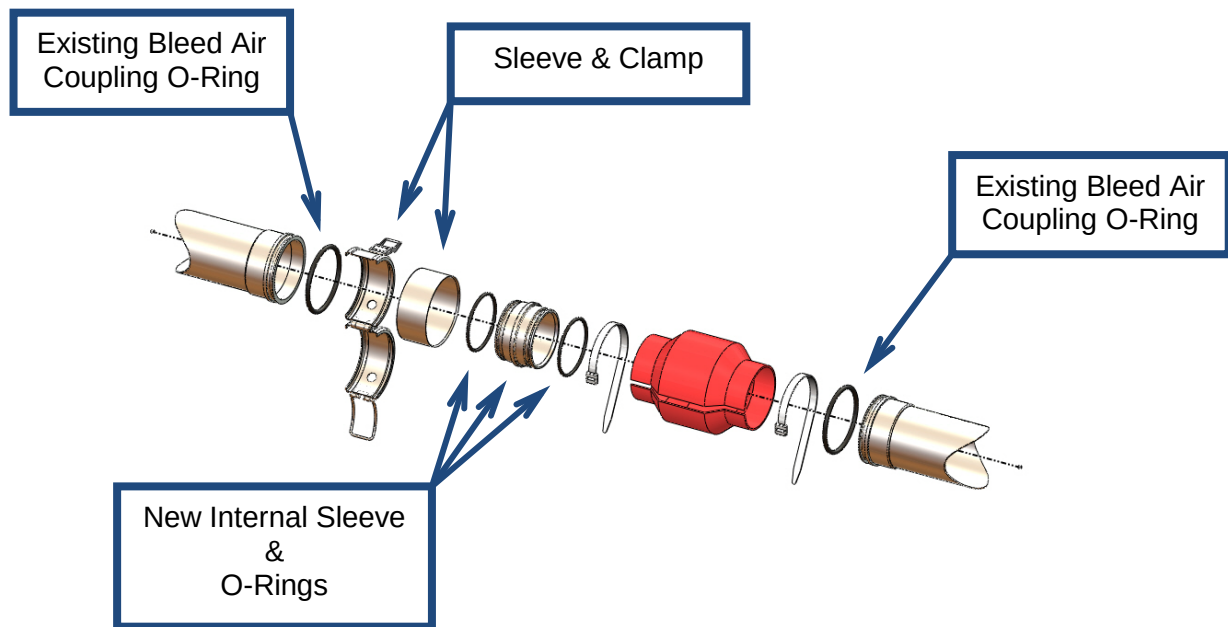


Figure 2
Bleed Air Duct Coupling
Flanged Design with External Sleeve & Clamp

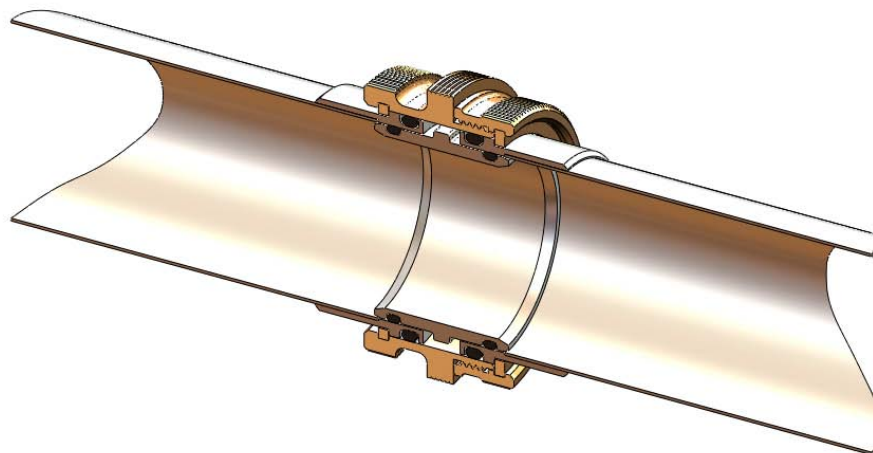


Figure 3
Assembled Bleed Air Duct Coupling
Flanged Design with Threaded Coupler & Retaining Nut
Cross Sectioned View

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8.0 Installation Information

Refer to Seal Dynamics Report Number SD3132012INSTL for installation instructions for the Bleed Air Coupling Sleeve Kit.

9.0 Special Tools

No special tools are required.

10.0 Airworthiness Limitations Section

This modification does not impose any airworthiness limitations on the aircraft. No Change is required to existing manuals.

11.0 Troubleshooting

The pneumatic system indicating function provides temperature data and advisory or warning messages by way of the cockpit EICAS display. Thermal switches are installed near all bleed air duct flexible joints to detect bleed air leakage. The thermal switches are hermetically sealed single-pole / single throw snap action switches which are calibrated to close at $91^{\circ}\text{C} \pm 3^{\circ}\text{C}$. If bleed air leakage were to occur on the RH side duct system and one thermal switch senses a temperature equal to or greater than $91^{\circ}\text{C} \pm 3^{\circ}\text{C}$, the pneumatic system will control the Engine Bleed Valve (EBV), High Stage Valve (HSV) and Cross Bleed Valve (CBV) on the affected side to close. This action results in a "BLD 2 VLV CLSD" advisory message and a "BLD 2 LEAK" warning message to be shown on the EICAS display. If bleed air leakage were to occur on the LH side duct system as well as the APU line and one thermal switch senses a temperature equal to or greater than $91^{\circ}\text{C} \pm 3^{\circ}\text{C}$, the pneumatic system will control the Engine Bleed Valve (EBV), High Stage Valve (HSV), APU Bleed Valve (ABV) and Cross Bleed Valve (CBV) on the affected side to close. This action results in a "BLD 1 VLV CLSD" advisory message and "BLD 1 LEAK" or "BLD APU LEAK" warning message to be shown on the EICAS display. Additionally, the red "LEAK" light in the related pushbutton, on the overhead panel, lights when duct leakage occurs.

12.0 Periodic Scheduled Servicing Tasks

None required.

13.0 Special Inspection Requirements

None Required.

14.0 Periodic Scheduled Preventative Maintenance

None required.

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Appendix A

Supplemental Illustrated Parts Catalog Pages (IPC)

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Embraer EMB-135

Supplemental Illustrated Parts Catalog Pages (IPC)

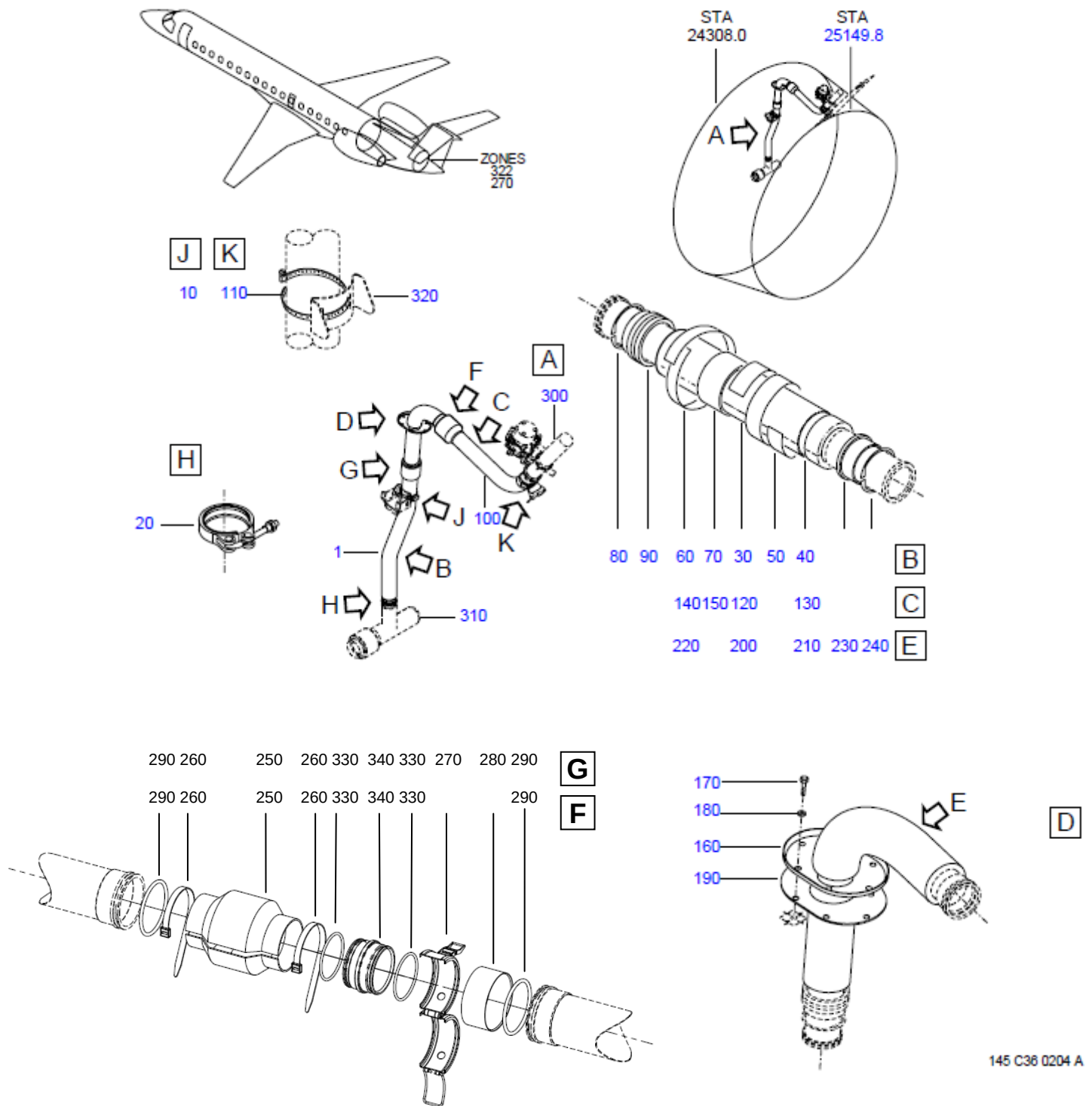


FIGURE 21(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

Fig. 21(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
21			ENGINE BLEED AIR SYS INSTL BTW FR 73 AND FR 75 FOR NHA SEE FIGURE 36-00-00-91 (POST-MOD SB 145-38-0008/03)		REF
1	145-28271-407		.TUBE ASSY (N/P)		1
1A	145-28271-413		.TUBE ASSY ATTACHING PARTS		1
10	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		1
- 11	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
20	NM102420-0150		.T-BOLT LATCH COUPLING J13 SUPPLIER CODE: V00624 * * *		1
30	KA0W00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM (2300CM2)		AR
40	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
40A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
50	E7184383		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
50A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
60	PE43022-1		..LABEL (90CM2)		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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Fig. 21(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
70	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (90CM2) LM: AR		AR
80	CAR50015-74		..SLEEVE (INTERCH AS A SET)		1
90	RA30115-020		..RING RETAINING SUPPLIER CODE: V29372 (INTERCH AS A SET)		1
100	145-32720-403		..TUBE ASSY (N/P)	145-176	1
100A	145-32720-409		..TUBE ASSY (N/P)	145-176	1
100B	145-32720-405		..TUBE ASSY (N/P)	186-99999	1
100C	145-32720-411		..TUBE ASSY (N/P)	186-99999	1
ATTACHING PARTS					
110	NAS1922-0275-1H		..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
- 111	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
120	KAOWOOL6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM (1440CM2)		AR
130	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
130A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
140	PE43022-1		..LABEL (300MM)		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
150	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (44CM2) LM: AR		AR
160	145-32719-405		..TUBE ASSY (N/P)		1
160A	145-32719-409		..TUBE ASSY ATTACHING PARTS		1
170	NAS8203-2		..BOLT-HEXAGON HEAD STEEL SUPPLIER CODE: V80205		6
180	NAS1149C0332R		..WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C10L OPTIONAL P/N: NAS1149C0332R. * * *		6
190	145-21161-011		..PACKING		1
200	KAOWOOL-6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM (1568MM)		AR
210	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
210A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
220	PE43022-1		..LABEL		AR
230	NR50015-74		..NUT - SST 1.5 SUPPLIER CODE: V29372 (INTERCH AS A SET)		1
240	RA30115-020		..RING RETAINING SUPPLIER CODE: V29372 (INTERCH AS A SET)		1
250	713463-7		..SLEEVE SUPPLIER CODE: V70628 RPLD BY P/N: 713463-11 (PRE-MOD SB 145-36-0014/02)(ALTERNATIVE USE P/N=4001-S)	145-533	2

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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Fig. 21(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
250A	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S RPLS P/N: 713463-7 (POST-MOD SB 145-38-0014/02)		2
260	T50L6TZ		ATTACHING PARTS .CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: VK0720 ORDER TRUE P/N: T50L-6TZ OPTIONAL P/N: LK3AHSBLK OPTIONAL P/N: T50L-6TZC2 OPTIONAL P/N: T50L-6TZM4 (PRE-MOD SB 145-38-0014/02) (QUALIFIED INTERCH) (P/N=600-52 CAN BE INSTALLED IN THE PLACE OF P/N=T50L-6TZ PROVIDED P/N=713463-7 IS INSTALLED)	145-176	4
260A	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M (POST-MOD SB 145-38-0014/02)	145-176	4
260B	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123	186-215	4
260C	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M * * *	220-99999	4
270	CA33015		.CLAMP SUPPLIER CODE: V29372 (USE WITH PN G30015C OR PN G30015CD OR PN G30015TD)		2
270A	CA36115C		.CLAMP SUPPLIER CODE: V29372 (USE WITH PN G30015TD OR PN G30015C) ATTACHING PARTS		2

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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Fig. 21(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 271	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 (PRE-MOD SB 145-38-0023)		AR
- 271A	E8196890		.WIRE-LOCK SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C32 .. OPTIONAL P/N: MS20995C32 OPTIONAL P/N: MS20995C32 .. (POST-MOD SB 145-38-0023)		AR
			* * *		
280	G30015TD		.TITANIUM SLEEVE DIA 1 1/2 INCH SUPPLIER CODE: V08118 I/W P/N: G30015CD (USE WITH PN CA33015 OR PN CA36115C)	145-399	2
280A	G30015CD		.SLEEVE SUPPLIER CODE: V08118 I/W P/N: G30015TD RPLD BY P/N: G30015C (PRE-MOD SB 145-38-0022/01) (USE WITH PN CA33015)	145-178	2
280B	G30015CD		.SLEEVE SUPPLIER CODE: V08118 RPLD BY P/N: G30015C (USE WITH PN CA33015)	145-399	2
280C	G30015C		.SLEEVE SUPPLIER CODE: V83046 RPLS P/N: G30015CD (AND FORMER ACFT POST-MOD SB 145-38-0022/01) (USE WITH PN CA33015 OR PN CA36115C)		2
290	S2D222		.O-RING ORDER TRUE P/N: S2D-222 RPLD BY P/N: S2U2-222 (PRE-MOD SB 145-38-0022/01)	145-178	4
290A	S2U2-222		.O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-222 OPTIONAL P/N: AS568-222 Z7257 OPTIONAL P/N: S2U222 OPTIONAL P/N: S2U2222 OPTIONAL P/N: S2U3-222 OPTIONAL P/N: V8545A7257-222 OPTIONAL P/N: 2-222 RPLS P/N: S2D-222 I/W P/N: 403039-15 (POST-MOD SB 145-38-0022/01)	145-178	4

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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Fig. 21(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
290B	S2U2-222		.O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-222 OPTIONAL P/N: AS568-222 Z7257 OPTIONAL P/N: S2U222 OPTIONAL P/N: S2U2222 OPTIONAL P/N: S2U3-222 OPTIONAL P/N: V8545A7257-222 OPTIONAL P/N: 2-222 IW P/N: 403039-15	188-99999	4
290C	403039-15		.O-RING SUPPLIER CODE: V08118 IW P/N: S2U2-222		4
300			 DEICING SYSTEM INSTL, VERTICAL STABILIZER (SEE CHAPTER 30)		REF
310			ENGINE BLEED AIR SYS INSTL FR 74 SEE FIGURE 36-17-00-61		REF
320			SUPPORTS INSTL ENGINE BLEED, BTW FR 73 AND FR 75 SEE FIGURE 36-00-00-91		REF
330	S30015SD		O-RING		4
340	T30015SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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Fig. 21(SUP)
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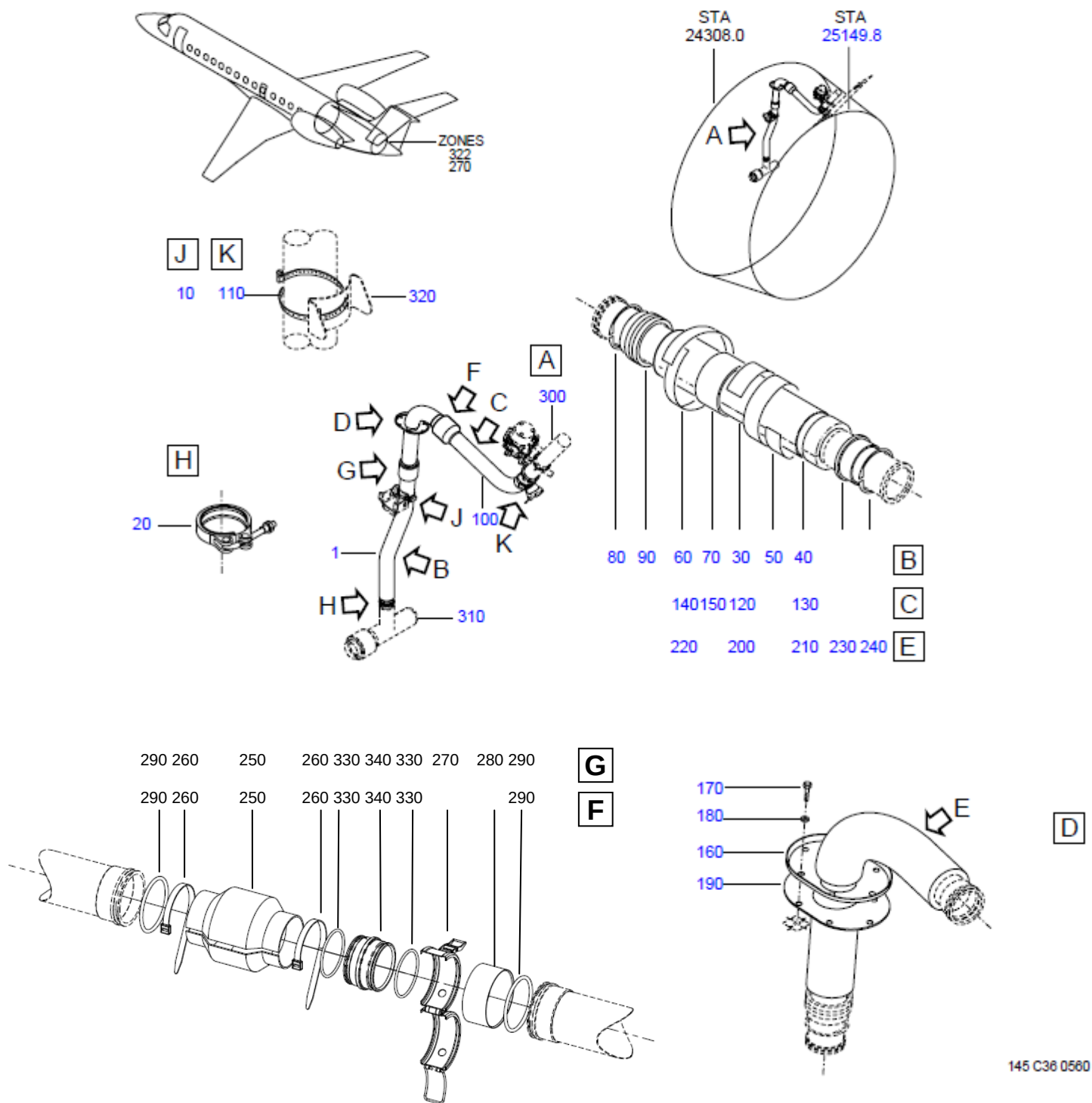


FIGURE 22(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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Fig. 22(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
22			ENGINE BLEED AIR SYS INSTL BTW FR 73 AND FR 75 FOR NHA SEE FIGURE 36-00-00-91 FOR NHA SEE FIGURE 36-17-00-61		REF
1	145-28271-407		.TUBE ASSY		1
1A	145-28271-413		.TUBE ASSY		1
			ATTACHING PARTS		
10	PE27021-5770		.CLAMP		1
			OPTIONAL P/N: FIF5770		
- 11	E8304277		.WIRE LOCK-SSTEEL		AR
			SUPPLIER CODE: V98906		
			ORDER OVERLENGTH P/N: MS20995C20 ...		
			OPTIONAL P/N: MS20995C20		
			OPTIONAL P/N: MS20995C20		
20	NM102420-0150		.T-BOLT LATCH COUPLING J13		1
			SUPPLIER CODE: V00624		
			* * *		
30	KAOW00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8		AR
			SUPPLIER CODE: VBABCO		
			ORDER TRUE P/N: KAOWOOL-8-16MM		
			(2300CM2)		
40	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE		AR
			SUPPLIER CODE: V000KK		
			ORDER OVERLENGTH P/N: 5413-19MM .		
			OPTIONAL P/N: 5413-19MM		
			OPTIONAL P/N: 5413-19MM ..		
			LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
40A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/20 .		
			OPTIONAL P/N: KB46/20		
			LM: TAPE,POLYIMIDE,20MM		
50	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE		AR
			SUPPLIER CODE: V000KK		
			ORDER OVERLENGTH P/N: 5413-50MM ..		
			OPTIONAL P/N: 5413-50MM		
			OPTIONAL P/N: 5413-50MM .		
			LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
50A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/50 .		
			OPTIONAL P/N: KB46/50		
			LM: TAPE,POLYIMIDE,50MM		
60	PE43022-1		..LABEL		AR
			(90CM2)		

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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Fig. 22(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
70	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.8 (90CM2) LM: AR		AR
80	CAR50015-74		..SLEEVE		1
90	RA30115-020		..RING RETAINING SUPPLIER CODE: V29372		1
100	145-32720-403		..TUBE ASSY	145-176	1
100A	145-32720-409		..TUBE ASSY	145-176	1
100B	145-32720-405		..TUBE ASSY	186-99999	1
100C	145-32720-411		..TUBE ASSY	186-99999	1
ATTACHING PARTS					
110	NAS1922-0275-1H		..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
- 111	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V96906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
* * *					
120	KAOW00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM (1440CM2)		AR
130	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
130A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
140	PE43022-1		..LABEL (300MM)		AR
150	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (44CM2) LM: AR		AR
160	145-32719-405		..TUBE ASSY		1

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
160A	145-32719-409		.TUBE ASSY		1
			ATTACHING PARTS		
170	NAS8203-2		.BOLT-HEXAGON HEAD STEEL		6
			SUPPLIER CODE: V80205		
180	NAS1149C0332R		.WASHER FLAT-CRES		6
			SUPPLIER CODE: V80205		
			OPTIONAL P/N: AN980C10L		
			OPTIONAL P/N: NAS1149C0332R.		
			* * *		
190	145-21161-011		.PACKING		1
200	KAOWOOL8-16MM		.INSULATING BLANKET TYPE 1, GRADE 8		AR
			SUPPLIER CODE: VBABCO		
			ORDER TRUE P/N: KAOWOOL-8-16MM		
			(1588MM)		
210	E8303778		.TAPE POLYIMIDE,19MM-SILICON ADHESIVE		AR
			SUPPLIER CODE: V000KK		
			ORDER OVERLENGTH P/N: 5413-19MM .		
			OPTIONAL P/N: 5413-19MM		
			OPTIONAL P/N: 5413-19MM ..		
			LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
210A	E7363814		.TAPE POLYIMIDE,20MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/20 .		
			OPTIONAL P/N: KB46/20		
			LM: TAPE,POLYIMIDE,20MM		
220	PE43022-1		.LABEL		AR
230	NR50015-74		.NUT - SST 1.5		1
			SUPPLIER CODE: V29372		
240	RA30115-020		.RING RETAINING		1
			SUPPLIER CODE: V29372		
250	713463-7		.SLEEVE	145-533	2
			SUPPLIER CODE: V70628		
			RPLD BY P/N: 713463-11		
			(PRE-MOD SB 145-36-0014/02)(ALTERNATIVE USE P/N=4001-S)		
250A	713463-11		.COVER		2
			SUPPLIER CODE: V70628		
			OPTIONAL P/N: 4001-S		
			RPLS P/N: 713463-7		
			(POST-MOD SB 145-36-0014/02)		
			ATTACHING PARTS		

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
260	T50L6TZ		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: VK0720 ORDER TRUE P/N: T50L-6TZ OPTIONAL P/N: LK3AHSBLK OPTIONAL P/N: T50L-6TZC2 OPTIONAL P/N: T50L-6TZM4 (PRE-MOD SB 145-36-0014/02) (QUALIFIED INTERCH) (P/N=800-52 CAN BE INSTALLED IN THE PLACE OF P/N=T50L-6TZ PROVIDED P/N=713463-7 IS INSTALLED)	145-176	4
260A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123	186-215	4
260B	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M (AND FORMER ACFT POST-MOD SB 145-36-0014/02) * * *	220-99999	4
270	CA33015		.CLAMP SUPPLIER CODE: V29372 (USE WITH PN G30015C)		2
270A	CA36115C		.CLAMP SUPPLIER CODE: V29372 (USE WITH PN G30015C)		2
			ATTACHING PARTS		
- 271	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V96906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 (PRE-MOD SB 145-36-0023)		AR
- 271A	E8196690		.WIRE-LOCK SSTEEL SUPPLIER CODE: V96906 ORDER OVERLENGTH P/N: MS20995C32 .. OPTIONAL P/N: MS20995C32 OPTIONAL P/N: MS20995C32 . (POST-MOD SB 145-36-0023) * * *		AR
280	G30015C		.SLEEVE SUPPLIER CODE: V83046 (USE PN CA33015 OR PN 36115C)		2

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
290	S2U2-222		.O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-222 OPTIONAL P/N: AS568-222 Z7257 OPTIONAL P/N: S2U222 OPTIONAL P/N: S2U3-222 OPTIONAL P/N: V8545A7257-222 OPTIONAL P/N: 2-222 IW P/N: 403039-15		4
290A	403039-15		.O-RING SUPPLIER CODE: V08118 IW P/N: S2U2-222		4
300			 DEICING SYSTEM INSTL, VERTICAL STABILIZER (SEE CHAPTER 30)		REF
310			.....		REF
320			SUPPORTS INSTL ENGINE BLEED, BTW FR 73 AND FR 75 SEE FIGURE 36-00-00-91		REF
330	S30015SD		O-RING		4
340	T30015SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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ILLUSTRATED PARTS CATALOG



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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
03			ENGINE BLEED AIR SYS INSTL BTW FR 40 AND FR 49 FOR NHA SEE FIGURE 36-00-00-03 FOR NHA SEE FIGURE 36-00-00-22 FOR NHA SEE FIGURE 36-15-00-22 FOR NHA SEE FIGURE 36-20-02-01		REF
1	LN9284-4X200		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 OPTIONAL P/N: IN9284-4X200		2
10	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		4
			ATTACHING PARTS		
20	MS21042-08		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		8
30	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		12
40	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C8L (ALTERNATIVE USE P/N=AN980C8L)		12
50	NAS1098-1-8		.SCREW SUPPLIER CODE: V80205		12
			* * *		
60	145-32772-405		.TUBE ASSY 145-176	145-176	1
60A	145-32772-415		.TUBE ASSY 145-176	145-176	1
60B	145-32772-407		.TUBE ASSY 186-251	186-251	1
60C	145-32772-417		.TUBE ASSY 186-251	186-251	1
60D	145-32772-409		.TUBE ASSY 267-99999	267-99999	1
60E	145-32772-419		.TUBE ASSY 267-99999	267-99999	1
70	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		1
			ATTACHING PARTS		
- 72	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
80	KAOWOOL8-16MM		.INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
90A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
100	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
100A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
110	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
120	PE43022-1		..LABEL		AR
130	145-30722-409		..TUBE ASSY (N/P)(QUALIFIED INTERCH)(THE P/N 145-30722-409 SHOULD NOT BE USED AS A REPLACEMENT SPARE).	145-178	1
130A	145-30722-419		..TUBE ASSY (QUALIFIED INTERCH)(THE P/N 145-30722-419 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N P/N 145-30722-409).	145-178	1
130B	145-30722-411		..TUBE ASSY RPLD BY P/N: 145-30722-413	186-399	1
130C	145-30722-413		..TUBE ASSY RPLS P/N: 145-30722-411	186-99999	1
130D	145-30722-421		..TUBE ASSY	186-99999	1
140	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770 ATTACHING PARTS		1

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 142	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
150	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KA0W00L8-16MM		AR
160	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
160A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
170	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
170A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
180	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR	145-399	AR
180A	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR	403-99999	AR
190	PE43022-1		..LABEL		AR
200	145-30205-411		..TUBE ASSY		2
200A	145-30205-417		..TUBE ASSY		2
210	NAS1922-0275-1H		..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		2
220	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770 ATTACHING PARTS		4

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 222	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
230	KA0W00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
240	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
240A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
250	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
250A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
260	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
270	PE43022-1		..LABEL		AR
280	713463-7		..SLEEVE SUPPLIER CODE: V70628 RPLD BY P/N: 713463-11 (PRE-MOD SB 145-36-0014/02)(ALTERNATIVE USE P/N=4001-S)	145-176	2
280A	713463-11		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S RPLS P/N: 713463-7 (POST-MOD SB 145-36-0014/02)	145-215	2
280B	713463-7		..SLEEVE SUPPLIER CODE: V70628 RPLD BY P/N: 713463-11 (ALTERNATIVE USE P/N=4001-S)	186-215	2

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
280C	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S	220-99999	2
285	713463-7		.SLEEVE SUPPLIER CODE: V70628 (PRE-MOD SB 145-38-0014/02)(ALTERNATIVE USE P/N=4001-S)	145-176	2
285A	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S (POST-MOD SB 145-38-0014/02)	145-176	2
285B	713463-7		.SLEEVE SUPPLIER CODE: V70628 (ALTERNATIVE USE P/N=4001-S)	186-215	2
285C	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S	220-99999	2
286	140-05310-405		.BLANKET INSULATION ASSY (POST-MOD SB 145-38-0048/01)(POST-MOD SB 145-38-0049)		2
ATTACHING PARTS					
290	T50L8TZ		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: VK0720 ORDER TRUE P/N: T50L-8TZ OPTIONAL P/N: LK3AHSBLK OPTIONAL P/N: T50L-8TZC2 OPTIONAL P/N: T50L-8TZM4 I/W P/N: 600-052 (PRE-MOD SB 145-38-0014/02) (QUALIFIED INTERCH) (P/N=600-52 CAN BE INSTALLED IN THE PLACE OF P/N=T50L-8TZ PROVIDED P/N=713463-7 IS INSTALLED)		8
290A	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M I/W P/N: 600-052 (POST-MOD SB 145-38-0014/02)		8
290B	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: T50L-8TZ I/W P/N: PLT4S-C76		8
290C	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M	220-99999	8
* * *					
300	CA33020		.CLAMP-TUBES AL SUPPLIER CODE: V29372 (USE WITH PN G30020C)		4

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
300A	CA36120C		.CLAM-ANTI ICE SYS WING,SSTEEL SUPPLIER CODE: V29372 (USE WITH PN G30020C)		4
- 302	E8196690		ATTACHING PARTS .WIRE-LOCK SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C32 .. OPTIONAL P/N: MS20995C32 OPTIONAL P/N: MS20995C32 .. * * *		AR
310	G30020C		.SLEEVE SUPPLIER CODE: V08118 (USE WITH PN CA33020 OR PN CA36120C)		4
320	S2U2-226		.O'RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 IW P/N: 403039-20		8
320A	403039-20		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-226		8
330			 PACK VALVE 1 & 2 INSTL, WING/FUSLG FAIR (SEE CHAPTER 21)		REF
340			 DEICING SYS INSTL, CENTER FUSLG, LH SIDE (SEE CHAPTER 30)		REF
350			 DEICING SYS INSTL, CENTER FUSLG, RH SIDE (SEE CHAPTER 30)		REF
360			ENGINE BLEED AIR SYS INSTL BTW FR 49 AND FR 52 SEE FIGURE 36-15-00-22		REF
370	S30020SD		O-RING		8
380	T30020SD		SLEEVE		4

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

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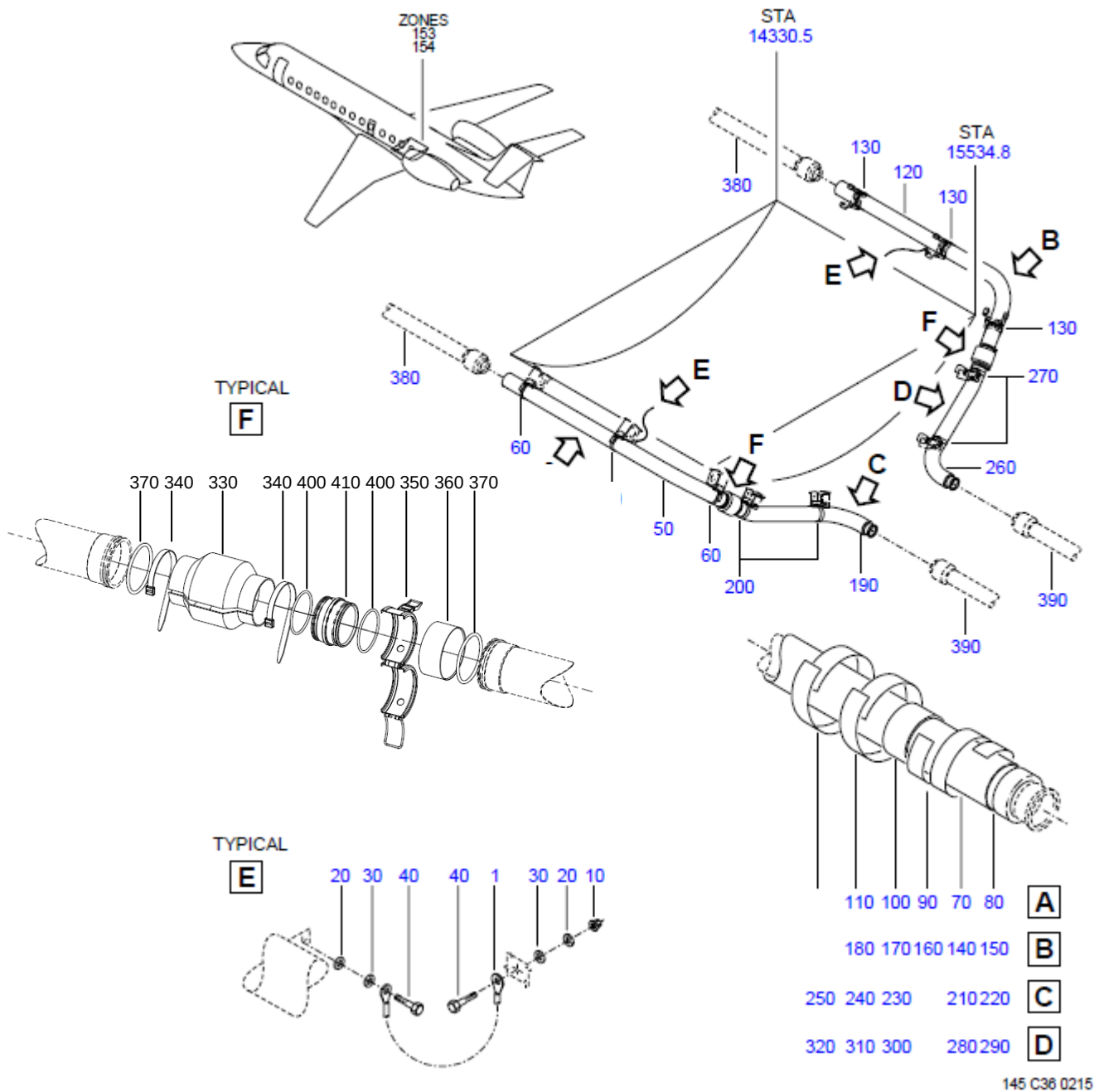


FIGURE 22(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

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Fig. 22(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
22			ENGINE BLEED AIR SYS INSTL BTW FR 49 AND FR 52 FOR NHA SEE FIGURE 36-00-00-12 FOR NHA SEE FIGURE 36-15-00-03 FOR NHA SEE FIGURE 36-16-00-03 FOR NHA SEE FIGURE 36-20-02-07		REF
1	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		2
10	MS21042-08		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		4
30	NAS1149CN818R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C8L (ALTERNATIVE USE P/N=AN980C8L)		4
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205 * * *		4
50	145-23986-413		.TUBE ASSY		1
50A	145-23986-419		.TUBE ASSY		1
60	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770 ATTACHING PARTS		3
- 62	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
70	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
80A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
90	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
90A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
100	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
110	PE43022-1		..LABEL		AR
120	145-23986-414		.TUBE ASSY		1
120A	145-23986-420		.TUBE ASSY IW P/N: 600-052		1
130	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		3
- 132	E8304277		ATTACHING PARTS .WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
140	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KA0WOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
150	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
150A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
160	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
160A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
170	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
180	PE43022-1		..LABEL		AR
190	145-38587-401		..TUBE ASSY		1
190A	145-38587-405		..TUBE ASSY		1
200	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770		2
			ATTACHING PARTS		
- 202	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
210	KA0W00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
220	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
220A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 . OPTIONAL P/N: KB48/20 LM: TAPE,POLYIMIDE,20MM		AR
230	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
240	PE43022-1		..LABEL		AR
250	PE43021-31		..LABEL		AR
260	145-38587-402		..TUBE ASSY		1
260A	145-38587-408		..TUBE ASSY		1
270	PE27021-5770		..CLAMP		2
			OPTIONAL P/N: FIF5770		
			ATTACHING PARTS		
- 272	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
280	KA0W00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
290	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
290A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 . OPTIONAL P/N: KB48/20 LM: TAPE,POLYIMIDE,20MM		AR
300	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
310	PE43022-1		..LABEL		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
320	PE43021-31		. LABEL		AR
330	713463-7		. SLEEVE SUPPLIER CODE: V70628 RPLD BY P/N: 713463-11 (PRE-MOD SB 145-36-0014/02) (ALTERNATIVE USE P/N=4001-S)	145-176	2
330A	713463-11		. COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S RPLS P/N: 713463-7 (POST-MOD SB 145-36-0014/02)	145-215	2
330B	713463-7		. SLEEVE SUPPLIER CODE: V70628 RPLD BY P/N: 713463-11 (ALTERNATIVE USE P/N=4001-S)	186-215	2
330C	713463-11		. COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S	220-99999	2
ATTACHING PARTS					
340	T50L6TZ		. CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: VK0720 ORDER TRUE P/N: T50L-6TZ OPTIONAL P/N: LK3AHSBLK OPTIONAL P/N: T50L-6TZC2 OPTIONAL P/N: T50L-6TZM4 I/W P/N: 600-052 (PRE-MOD SB 145-36-0014/02) (QUALIFIED INTERCH) (P/N=600-52 CAN BE INSTALLED IN THE PLACE OF P/N=T50L-6TZ PROVIDED P/N=713463-7 IS INSTALLED)		4
340A	PLT4SC76		. CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M I/W P/N: 600-052 (POST-MOD SB 145-36-0014/02)		4
340B	600-052		. BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: 145-23966-420 I/W P/N: T50L-6TZ I/W P/N: PLT4S-C76		4
340C	PLT4SC76		. CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M	220-99999	4
* * *					
350	CA33020		. CLAMP-TUBES AL SUPPLIER CODE: V29372 (USE WITH PN G30020C)		2

ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
350A	CA36120C		.CLAM-ANTI ICE SYS WING,SSTEEL		2
			SUPPLIER CODE: V29372		
			(USE WITH PN G30020C)		
- 352	E8196890		.WIRE-LOCK SSTEEL		AR
			SUPPLIER CODE: V98908		
			ORDER OVERLENGTH P/N: MS20995C32 ..		
			OPTIONAL P/N: MS20995C32		
			OPTIONAL P/N: MS20995C32 ..		
380	G30020C		.SLEEVE		2
			SUPPLIER CODE: V08118		
			(USE WITH PN CA33020 OR PN CA36120C)		
370	S2U2-226		.O-RING		4
			SUPPLIER CODE: V29372		
			OPTIONAL P/N: AS568-226		
			OPTIONAL P/N: AS568-226 Z7257		
			OPTIONAL P/N: S2U2226		
			OPTIONAL P/N: S2U226		
			OPTIONAL P/N: S2U3-226		
			OPTIONAL P/N: V8545A7257-226		
			OPTIONAL P/N: 2-226		
			I/W P/N: 403039-20		
370A	403039-20		.O-RING		4
			SUPPLIER CODE: V08118		
			I/W P/N: S2U2-226		
380			ENGINE BLEED AIR SYS INSTL BTW FR 40 AND FR 49		REF
			SEE FIGURE 36-15-00-03		
390			ENGINE BLEED AIR SYS INSTL BTW FR 52 AND FR 58		REF
			SEE FIGURE 36-16-00-03		
400	S30020SD		O-RING		4
410	T30020SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

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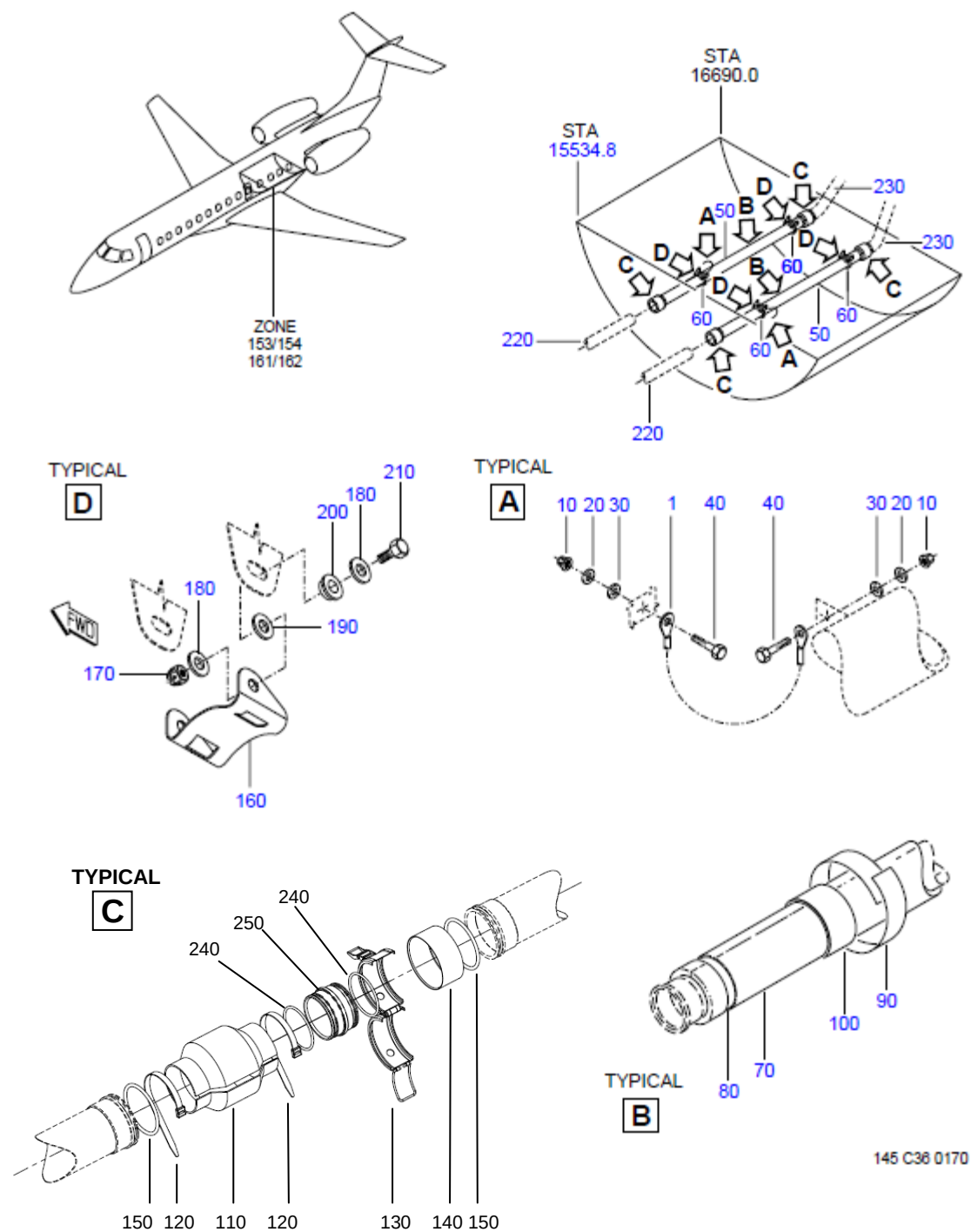


FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
03			ENGINE BLEED AIR SYS INSTL BTW FR 52 AND FR 56 FOR NHA SEE FIGURE 36-15-00-22 FOR NHA SEE FIGURE 36-16-00-22 FOR NHA SEE FIGURE 36-20-02-07		REF
1	LN9264-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD6442 ORDER TRUE P/N: LN9264-1,5X125		2
			ATTACHING PARTS		
10	MS21042-08		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		4
20	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C8L		4
30	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		4
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		4
			* * *		
50	135-00587-401		.TUBE ASSY SUPPLIER CODE: V80205		2
50A	135-00587-405		.TUBE ASSY SUPPLIER CODE: V80205		2
60	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		4
			ATTACHING PARTS		
- 62	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
70	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
80	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
80A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
90	PE43022-1		..LABEL SUPPLIER CODE: V80205		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

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Fig. 03(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
100	NA1000-1-6		.SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
110	713463-7		.SLEEVE SUPPLIER CODE: V70628 RPLD BY P/N: 713463-11 (ALTERNATIVE USE PN=4001-S)	145-215	4
110A	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S RPLS P/N: 713463-7		4
- 111	140-05310-405		.BLANKET INSULATION ASSY (POST-MOD SB 145-36-0048/01) (POST-MOD SB 145-36-0049)		4
			ATTACHING PARTS		
120	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76		8
120A	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ26M IW P/N: 600-052		8
			* * *		
130	CA33020		.CLAMP-TUBES AL SUPPLIER CODE: V29372 (USE WITH PN G30020CD OR PN G30020TD OR PN G30020C)		4
130A	CA36120C		.CLAM-ANTI ICE SYS WING,SSTEEL SUPPLIER CODE: V29372 (USE WITH PN G30020TC OR PN G30020C)		4
			ATTACHING PARTS		

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

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Fig. 03(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 132	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20	145-399	AR
- 132A	E8196890		.WIRE-LOCK SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C32 .. OPTIONAL P/N: MS20995C32 OPTIONAL P/N: MS20995C32 . * * *	403-99999	AR
140	G30020TD		.SLEEVE SUPPLIER CODE: V08118 IW P/N: G30020CD (USE WITH PN CA33020 OR PN CA360120C)	145-399	4
140A	G30020CD		.SLEEVE SUPPLIER CODE: V08118 IW P/N: G30020TD (USE WITH PN CA33020)	145-399	4
140B	G30020C		.SLEEVE SUPPLIER CODE: V08118 (USE WITH PN CA33020 OR PN CA360120C)	403-99999	4
150	S2U2-228		.O'RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-228 OPTIONAL P/N: AS568-228 Z7257 OPTIONAL P/N: S2U2228 OPTIONAL P/N: S2U228 OPTIONAL P/N: S2U3-228 OPTIONAL P/N: V8545A7257-228 OPTIONAL P/N: 2-228 IW P/N: 403039-20		8
150A	403039-20		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-228		8
180	145-35923-003		.SUPPORT ATTACHING PARTS		4
- 162	MS24885-71		.PIN COTTER-SPLIT,STEEL SUPPLIER CODE: V98908		8
170	MS14144L3		.NUT HEXAGON SUPPLIER CODE: V98908		8
180	NAS1149D0318H		.WASHER FLAT SUPPLIER CODE: V80205 OPTIONAL P/N: AN960D10L		18
190	E8722309		.WASHER ORDER OVERLENGTH P/N: PE24030-YB-06-160-10		8

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
200	120-14322-001		.BUSHING BLEED TB SPRT		8
210	NAS6203-5D		.BOLT SUPPLIER CODE: V80205 * * *		8
220			ENGINE BLEED AIR SYS INSTL BTW FR 49 AND FR 52 SEE FIGURE 36-15-00-22		REF
230			ENGINE BLEED AIR SYS INSTL BTW FR 55 AND FR 60 SEE FIGURE 36-16-00-22		REF
240	S30020SD		O-RING		8
250	T30020SD		SLEEVE		4

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

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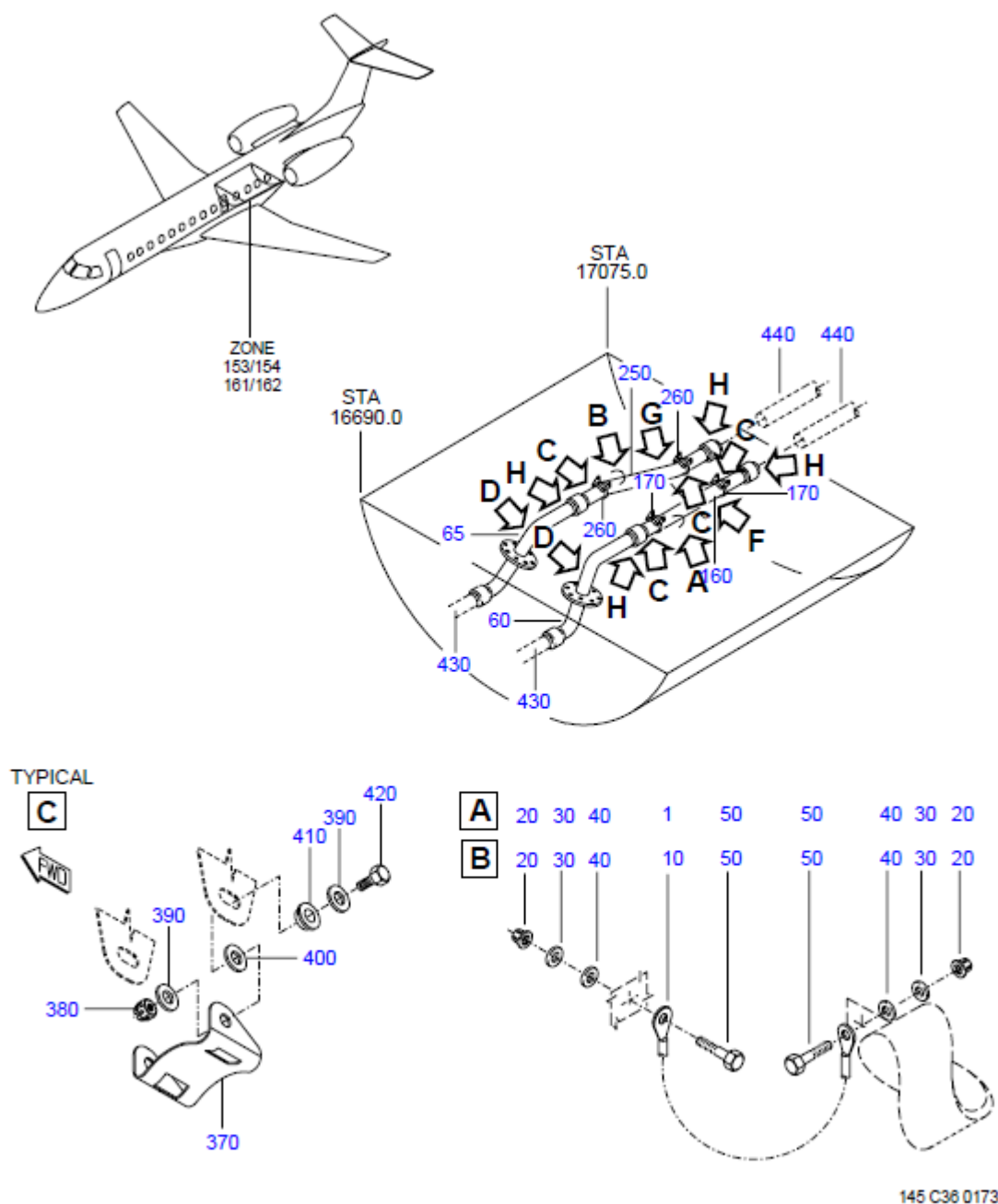


FIGURE 22(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 55 AND FR 60

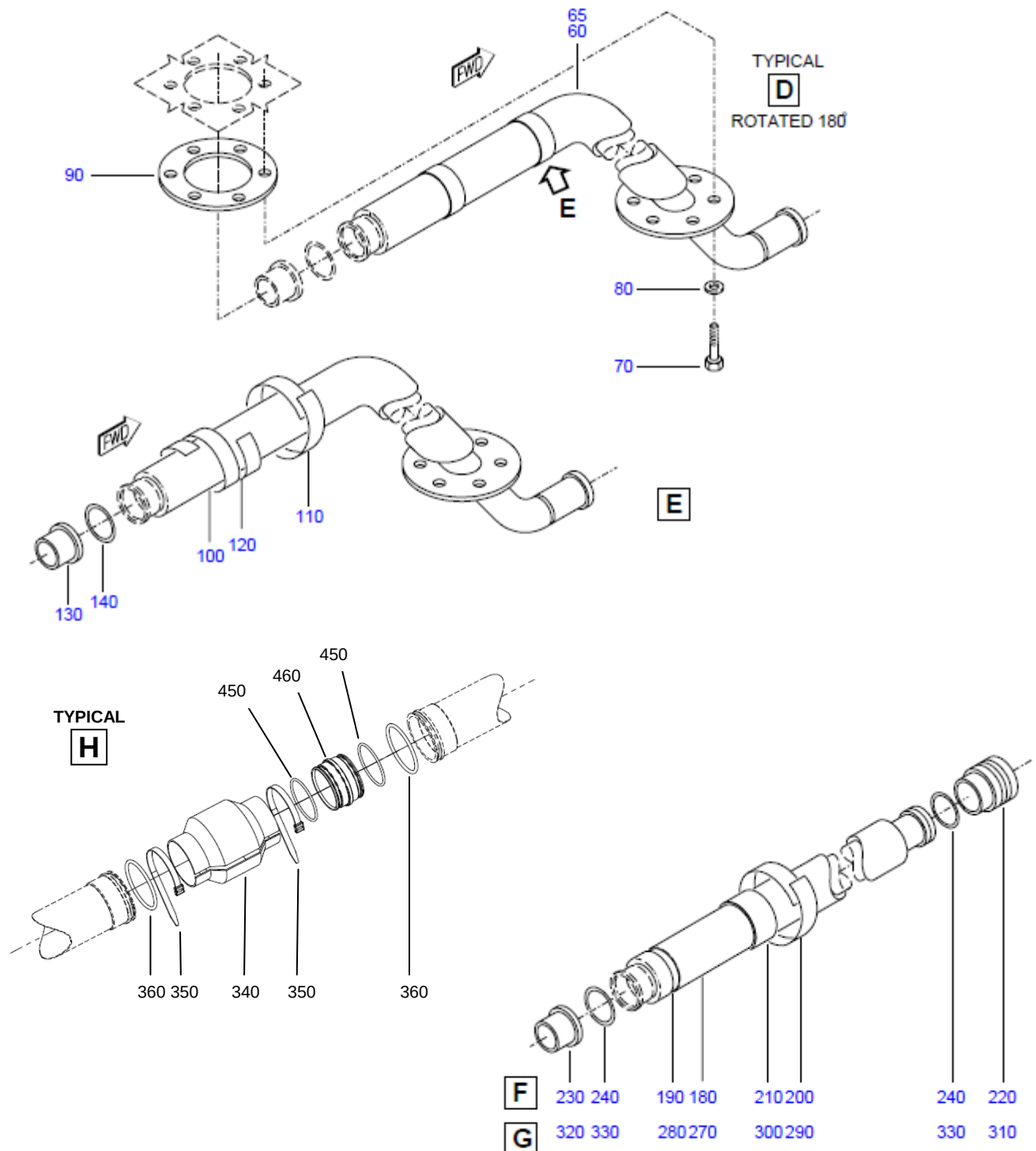


FIGURE 22(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 55 AND FR 60
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Fig. 22(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
22			ENGINE BLEED AIR SYS INSTL BTW FR 55 AND FR 60 FOR NHA SEE FIGURE 36-00-00-32 FOR NHA SEE FIGURE 36-16-00-03 FOR NHA SEE FIGURE 36-17-00-03 FOR NHA SEE FIGURE 36-20-02-07		REF
1	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		1
10	LN9284-4X160		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442		1
			ATTACHING PARTS		
20	MS21042-08		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		4
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C8L		4
40	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		4
50	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		4
			* * *		
60	145-21169-407		.TUBE ASSY SUPPLIER CODE: V80205		1
60A	145-21169-413		.TUBE ASSY SUPPLIER CODE: V80205		1
65	135-00588-401		.TUBE ASSY SUPPLIER CODE: V80205		1
65A	135-00588-405		.TUBE ASSY SUPPLIER CODE: V80205		1
			ATTACHING PARTS		
70	NAS8203-4		.BOLT-HEXAGON HEAD STEEL SUPPLIER CODE: V80205		16
80	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C10L OPTIONAL P/N: NAS1149C0332R.		16
90	145-21161-007		.PACKING SUPPLIER CODE: V80205		2
			* * *		
100	KAOWOOL8-16MM		.INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
110	PE43022-1		.LABEL SUPPLIER CODE: V80205		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 55 AND FR 60

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
120	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
120A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
130	NR50020-74		..NUT		2
140	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		2
- 150	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
150A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
160	135-00586-401		..TUBE ASSY		1
160A	135-00586-403		..TUBE ASSY		1
170	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770		2
			ATTACHING PARTS		
- 172	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V96906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
180	KA0W00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 55 AND FR 60

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
190	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
190A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
200	PE43022-1		..LABEL		AR
210	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
220	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
230	NR50020-74		..NUT		1
240	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		2
250	135-00585-401		..TUBE ASSY		1
250A	135-00585-403		..TUBE ASSY		1
260	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770		2
			ATTACHING PARTS		
- 262	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
270	KAOW00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
280	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
280A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
290	PE43022-1		..LABEL		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 55 AND FR 60

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
300	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.8 LM: AR		AR
310	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
320	NR50020-74		..NUT		1
330	RA30120-020		..RING RETAINING SUPPLIER CODE: V58135		2
340	713483-7		..SLEEVE SUPPLIER CODE: V70628 RPLD BY P/N: 713483-11 (ALTERNATIVE USE PN=4001-S)	145-215	4
340A	713483-11		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S RPLS P/N: 713483-7		4
			ATTACHING PARTS		
350	600-052		..BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76		8
350A	PLT4SC76		..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052		8
			* * *		
360	S2U2-226		..O'RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 IW P/N: 403039-20		8
360A	403039-20		..O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-226		8
370	145-35923-003		..SUPPORT		4
			ATTACHING PARTS		
- 372	MS24665-71		..PIN COTTER-SPLIT,STEEL SUPPLIER CODE: V98906		8
380	MS14144L3		..NUT HEXAGON SUPPLIER CODE: V98906		8

ENGINE BLEED AIR SYS INSTL, BTW FR 55 AND FR 60

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Fig. 22(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
390	NAS1149D0316H		.WASHER FLAT SUPPLIER CODE: V80205 OPTIONAL P/N: AN960D10L		16
400	E6722309		.WASHER ORDER OVERLENGTH P/N: PE24030-YB-06-160-10		8
410	120-14322-001		.BUSHING BLEED TB SPRT		8
420	NAS6203-5D		.BOLT SUPPLIER CODE: V80205		8
			* * *		
430			ENGINE BLEED AIR SYS INSTL BTW FR 52 AND FR 56 SEE FIGURE 36-16-00-03		REF
440			ENGINE BLEED AIR SYS INSTL BTW FR 60 AND FR 70 SEE FIGURE 36-17-00-03		REF
450	S30020SD		O-RING		8
460	T30020SD		SLEEVE		4

ENGINE BLEED AIR SYS INSTL, BTW FR 55 AND FR 60

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Fig. 22(SUP)
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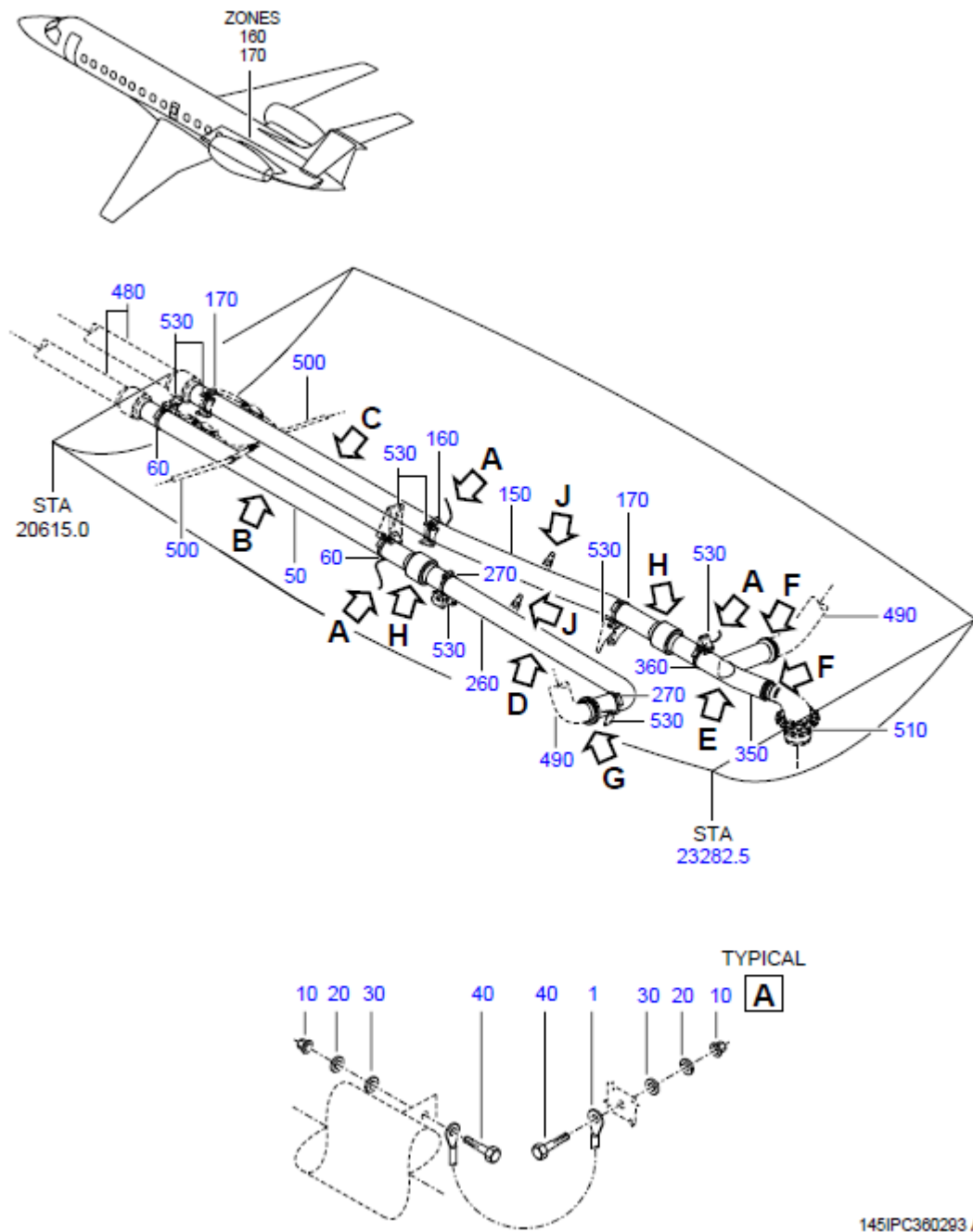


FIGURE 02(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70
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Fig. 02(SUP)
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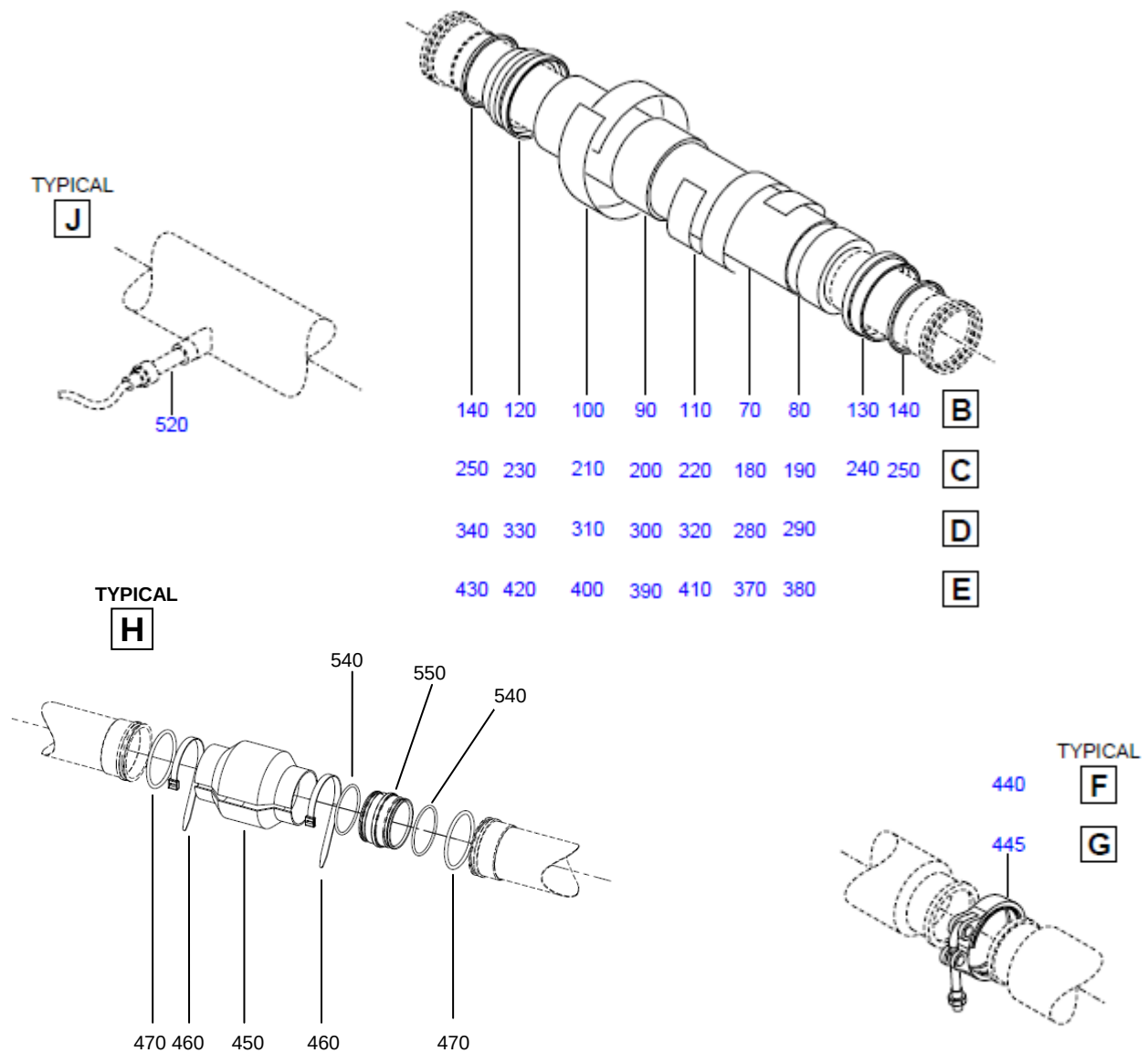


FIGURE 02(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70
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Fig. 02(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
02			ENGINE BLEED AIR SYS INSTL BTW FR 60 AND FR 70 FOR NHA SEE FIGURE 36-00-00-42 FOR NHA SEE FIGURE 36-11-06-03	334-334	REF
1	LN9264-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9264-1,5X125		3
			ATTACHING PARTS		
10	MS21042-08		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		8
20	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		8
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C8L		8
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		8
			* * *		
50	145-41386-401		.TUBE ASSY		REF
50A	145-41386-405		.TUBE ASSY		1
60	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
			ATTACHING PARTS		
- 61	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
70	KAOWOOL8-16MM		.INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM (2500CM2)		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

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Fig. 02(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
80A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
90	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.8 (59CM2) LM: AR		AR
100	PE43022-1		..LABEL (300MM)		AR
110	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
110A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
120	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
130	NR50020-74		..NUT		1
140	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		2
150	145-41595-401		..TUBE ASSY		REF
150A	145-41595-407		..TUBE ASSY		1
160	NAS1922-0275-1H		..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
170	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770 ATTACHING PARTS		2

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

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Fig. 02(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 172	E8304277		. WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
180	KA0W00L8-16MM		. .INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KA0W00L8-16MM (3250CM2)		AR
190	E7184393		. .TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
190A	E7383842		. .TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/50 . OPTIONAL P/N: KB48/50 LM: TAPE,POLYIMIDE,50MM		AR
200	NA1000-1-8		. .SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (59CM2) LM: AR		AR
210	PE43022-1		. .LABEL (300MM)		AR
220	E8303778		. .TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
220A	E7383814		. .TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 . OPTIONAL P/N: KB48/20 LM: TAPE,POLYIMIDE,20MM		AR
230	CAR50020-74		. .SLEEVE SUPPLIER CODE: V29372		1
240	NR50020-74		. .NUT		1
250	RA30120-020		. .RING RETAINING SUPPLIER CODE: V58135		2
260	145-38828-401		. TUBE ASSY (N/P) (FOR REPLACEMENT USE P/N 145-38828-407)		REF
260A	145-38828-407		. TUBE ASSY		1

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
270	NAS1922-0275-1H		..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		2
- 272	E8304277		ATTACHING PARTS ..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
280	KAOWOOL-8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM (1930CM2)		AR
290	E7184383		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
290A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
300	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (59CM2) LM: AR		AR
310	PE43022-1		..LABEL (300MM)		AR
320	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
320A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
330	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
340	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		1
350	145-21179-407		..TUBE ASSY (N/P) (FOR REPLACEMENT USE P/N 145-21179-413)		REF

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
350A	145-04741-403		.TUBE REINFORCED ASSY		REF
			(N/P) (FOR REPLACEMENT USE P/N 145-04741-409)		
350B	145-21179-413		.TUBE ASSY		1
			I/W P/N: 145-04741-409		
350C	145-04741-409		.TUBE REINFORCED ASSY		1
			I/W P/N: 145-21179-413		
380	NAS1922-0275-1H		.CLAMP ADJUSTABLE		1
			SUPPLIER CODE: V80205		
			OPTIONAL P/N: NH103275-0275		
			ATTACHING PARTS		
- 362	E8304277		.WIRE LOCK-SSTEEL		AR
			SUPPLIER CODE: V98908		
			ORDER OVERLENGTH P/N: MS20995C20 ...		
			OPTIONAL P/N: MS20995C20		
			OPTIONAL P/N: MS20995C20		
			* * *		
370	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6		AR
			SUPPLIER CODE: VBABCO		
			ORDER TRUE P/N: KAOWOOL-8-16MM		
			(1170CM2)		
380	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE		REF
			SUPPLIER CODE: V000KK		
			ORDER OVERLENGTH P/N: 5413-50MM ..		
			OPTIONAL P/N: 5413-50MM		
			OPTIONAL P/N: 5413-50MM .		
			LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
380A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/50 .		
			OPTIONAL P/N: KB46/50		
			LM: TAPE,POLYIMIDE,50MM		
390	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA		AR
			SUPPLIER CODE: VASBRT		
			ORDER TRUE P/N: NA-1000-1.8		
			(59CM2)		
			LM: AR		
400	PE43022-1		..LABEL		AR
			(300MM)		

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
410	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
410A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 . OPTIONAL P/N: KB48/20 LM: TAPE,POLYIMIDE,20MM		AR
- 412	118-50CS550		..FABRIC GLASS FIBER-CLASS 2,TYPE II, ORDER TRUE P/N: 118-50-CS550 OPTIONAL P/N: 118-50-I550 (25CM2)		AR
420	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
430	RA30120-020		..RING RETAINING SUPPLIER CODE: V58135		1
440	24540-200		..CLAMP ADJUSTABLE ASSY SUPPLIER CODE: V98625		2
445	24540-200		ATTACHING PARTS ..CLAMP ADJUSTABLE ASSY SUPPLIER CODE: V98625		1
			* * *		
- 446	140-05310-407		..BLANKET INSULATION ASSY (POST-MOD SB 145-38-0048/01)(POST-MOD SB 145-38-0049)		1
450	713463-11		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		2
			ATTACHING PARTS		
460	600-052		..BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76 (PRE-MOD SB 145-38-0014/02)		4
460A	PLT4SC76		..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98908 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052 (POST-MOD SB 145-38-0014/02)		4
460B	PLT4SC76		..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98908 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M		4
			* * *		

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
470	S2U2-228		O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-228 OPTIONAL P/N: AS568-228 Z7257 OPTIONAL P/N: S2U2228 OPTIONAL P/N: S2U228 OPTIONAL P/N: S2U3-228 OPTIONAL P/N: V8545A7257-228 OPTIONAL P/N: 2-228		4
480			.....		REF
490			.....		REF
500			ENGINE BLEED AIR SYS INSTL BTW FR 62 AND FR 65 SEE FIGURE 36-17-00-32		REF
510			GROUND COUPLING INSTL ENGINE STARTING SEE FIGURE 36-10-02-01		REF
520			.....		REF
530			SUPPORTS INSTL ENGINE BLEED, BTW FR 60 AND FR 70 SEE FIGURE 36-00-00-42		REF
540	S30020SD		O-RING		4
550	T30020SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

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Fig. 02(SUP)
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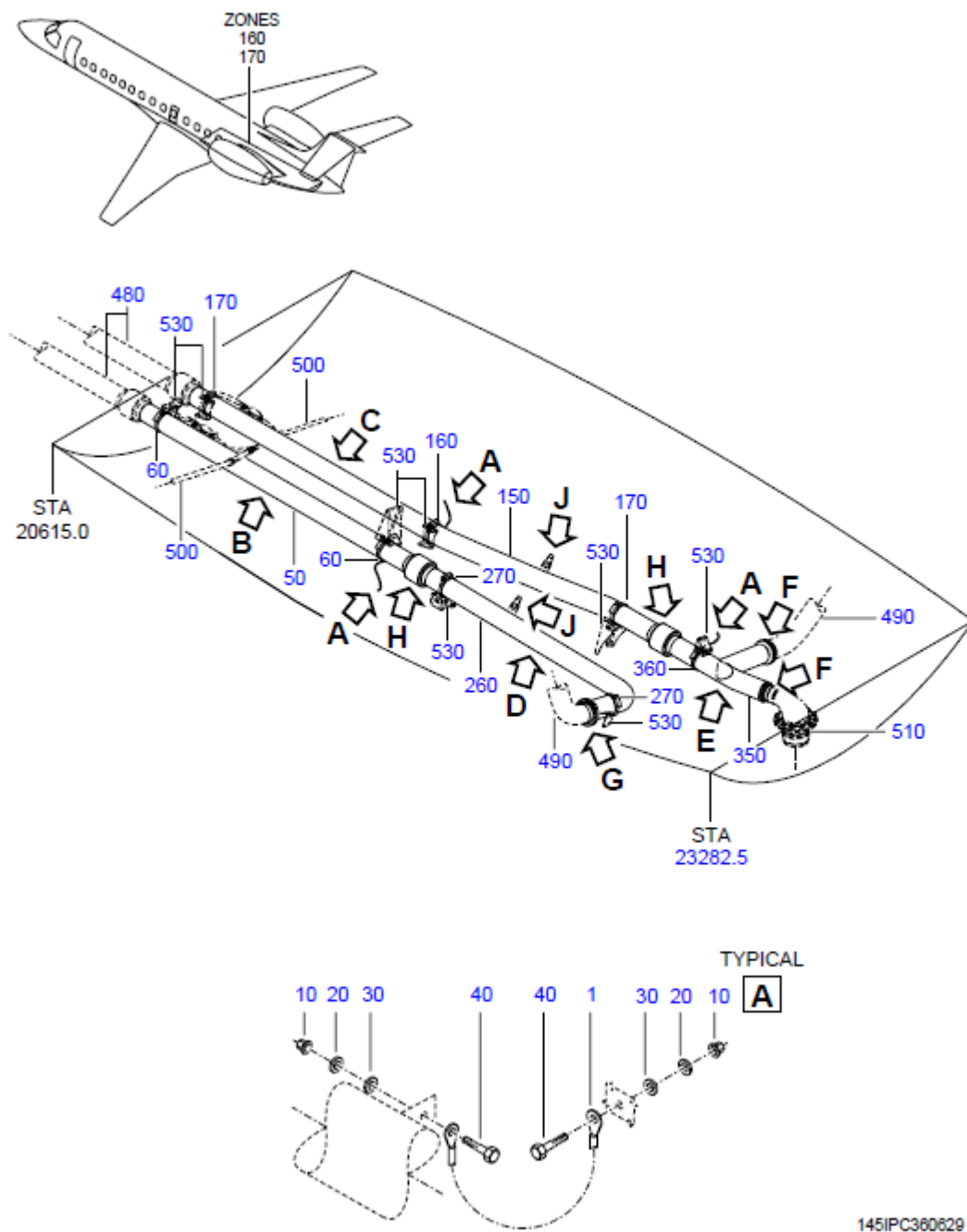


FIGURE 03(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70
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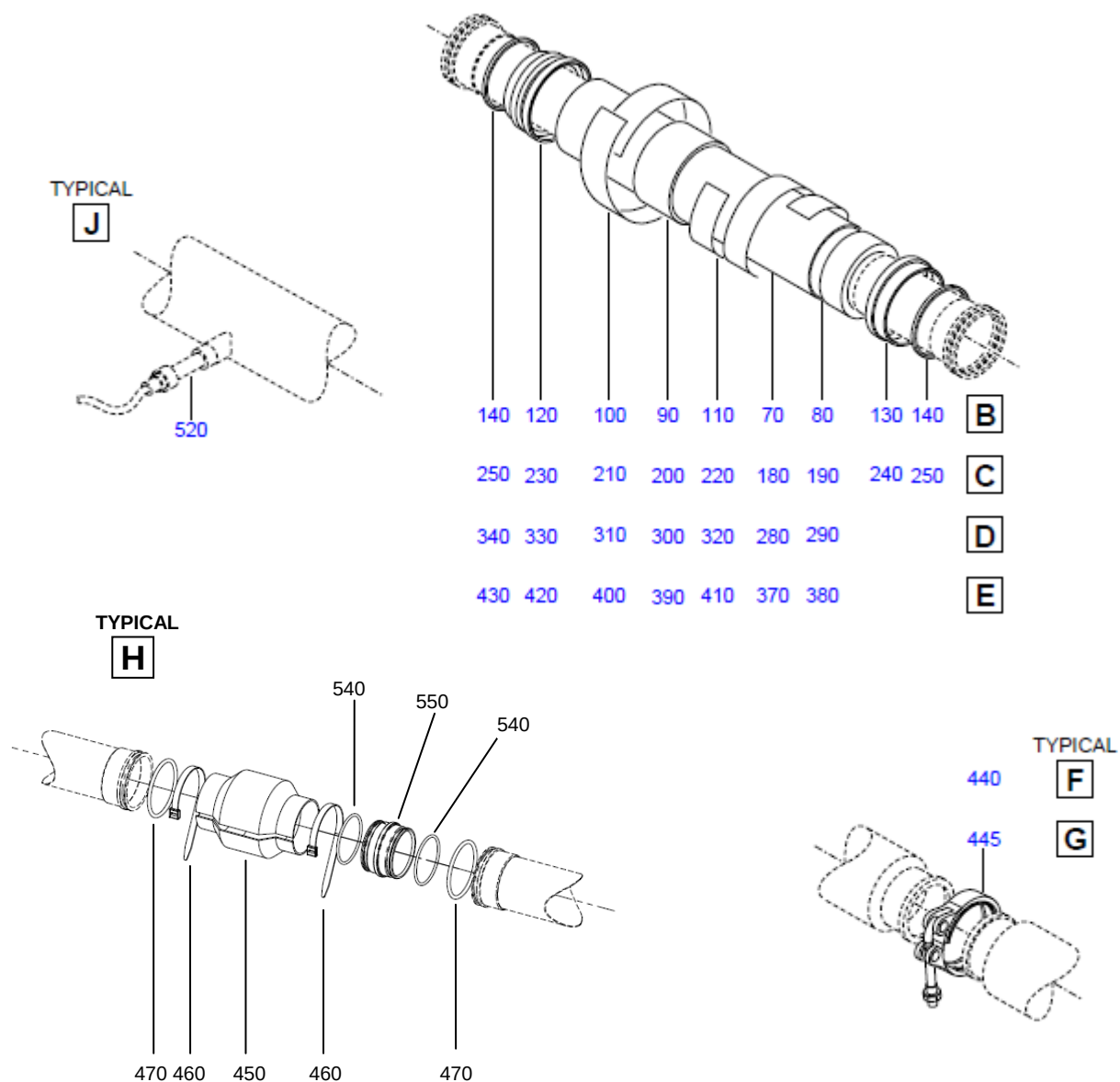


FIGURE 03(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70
Sheet 2 of 2

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
03			ENGINE BLEED AIR SYS INSTL BTW FR 60 AND FR 70 FOR NHA SEE FIGURE 36-00-00-42 FOR NHA SEE FIGURE 36-16-00-22 FOR NHA SEE FIGURE 36-17-00-22 FOR NHA SEE FIGURE 36-17-00-32 FOR NHA SEE FIGURE 36-20-01-01		REF
1	LN9264-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9264-1,5X125		3
			ATTACHING PARTS		
10	MS21042-06		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		6
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		6
30	NAS1149CN616R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C6L		6
40	NAS1096-1-6		.SCREW SUPPLIER CODE: V80205		6
			* * *		
50	145-41386-401		.TUBE ASSY		REF
50A	145-41386-405		.TUBE ASSY		1
60	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
			ATTACHING PARTS		
- 61	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
70	KAOWOOL6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

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Fig. 03(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
80A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 .. OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
90	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
100	PE43022-1		..LABEL		AR
110	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM .. OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
110A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 .. OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
120	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
130	NR50020-74		..NUT		1
140	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		2
150	145-41595-401		..TUBE ASSY		REF
150A	145-41595-407		..TUBE ASSY		1
160	NAS1922-0275-1H		..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
170	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770		2
			ATTACHING PARTS		

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 172	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
180	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
190	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
190A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
200	NA1000-1.6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
210	PE43022-1		..LABEL		AR
220	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
220A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
230	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
240	NR50020-74		..NUT		1
250	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		2
260	145-36828-401		..TUBE ASSY RPLD BY P/N: 145-36828-403	145-399	REF
260A	145-36828-403		..TUBE ASSY RPLS P/N: 145-36828-401		REF
260B	145-36828-407		..TUBE ASSY		1

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
270	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		2
- 272	E8304277		ATTACHING PARTS .WIRE LOCK-SSTEEL SUPPLIER CODE: V96906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
280	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
290	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
290A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
300	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
310	PE43022-1		..LABEL		AR
320	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
320A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
330	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
340	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		1
350	145-21179-407		.TUBE ASSY (N/P) (FOR REPLACEMENT USE P/N 145-21179-413)		REF
350A	145-04741-403		.TUBE REINFORCED ASSY (N/P) (FOR REPLACEMENT USE P/N 145-04741-409)		REF

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

Fig. 03(SUP)

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
350B	145-21179-413		.TUBE ASSY I/W P/N: 145-04741-409		1
350C	145-04741-409		.TUBE REINFORCED ASSY I/W P/N: 145-21179-413		1
360	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
- 362	E8304277		ATTACHING PARTS .WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
370	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
380	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
380A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
390	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
400	PE43022-1		..LABEL		AR
410	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
410A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
- 412	118-50CS550		..FABRIC GLASS FIBER-CLASS 2,TYPE II, ORDER TRUE P/N: 118-50-CS550 OPTIONAL P/N: 118-50-I550		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
420	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
430	RA30120-020		..RING RETAINING SUPPLIER CODE: V58135		1
440	24540-200		..CLAMP ADJUSTABLE ASSY SUPPLIER CODE: V98825		2
445	NM102420-0200		..V-CLAMP SUPPLIER CODE: V00624		1
- 446	140-05310-407		..BLANKET INSULATION ASSY (POST-MOD SB 145-38-0048/01)(POST-MOD SB 145-38-0049)		1
450	713463-7		..SLEEVE SUPPLIER CODE: V70628 RPLD BY P/N: 713463-11 (PRE-MOD SB 145-38-0014/02)(ALTERNATIVE USE P/N=4001-S)	215-215	2
450A	713463-11		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S RPLS P/N: 713463-7 (POST-MOD SB 145-38-0014/02)	215-215	2
450B	713463-11		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S	220-99999	2
ATTACHING PARTS					
460	600-052		..BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76 (PRE-MOD SB 145-38-0014/02)	208-99999	4
460A	PLT4SC76		..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052 (POST-MOD SB 145-38-0014/02)	208-99999	4
460B	PLT4SC76		..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M * * *	220-99999	4

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
470	S2U2-226		.O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 I/W P/N: 403039-20		4
470A	403039-20		.O-RING SUPPLIER CODE: V08118 I/W P/N: S2U2-226		4
480			ENGINE BLEED AIR SYS INSTL BTW FR 55 AND FR 60 SEE FIGURE 36-16-00-22		REF
490			ENGINE BLEED AIR SYS INSTL FR 60 SEE FIGURE 36-17-00-22		REF
500			ENGINE BLEED AIR SYS INSTL BTW FR 62 AND FR 65 SEE FIGURE 36-17-00-31		REF
510			GROUND COUPLING INSTL ENGINE STARTING SEE FIGURE 36-10-02-01		REF
520			.....		REF
530			.....		REF
540	S30020SD		O-RING		4
550	T30020SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

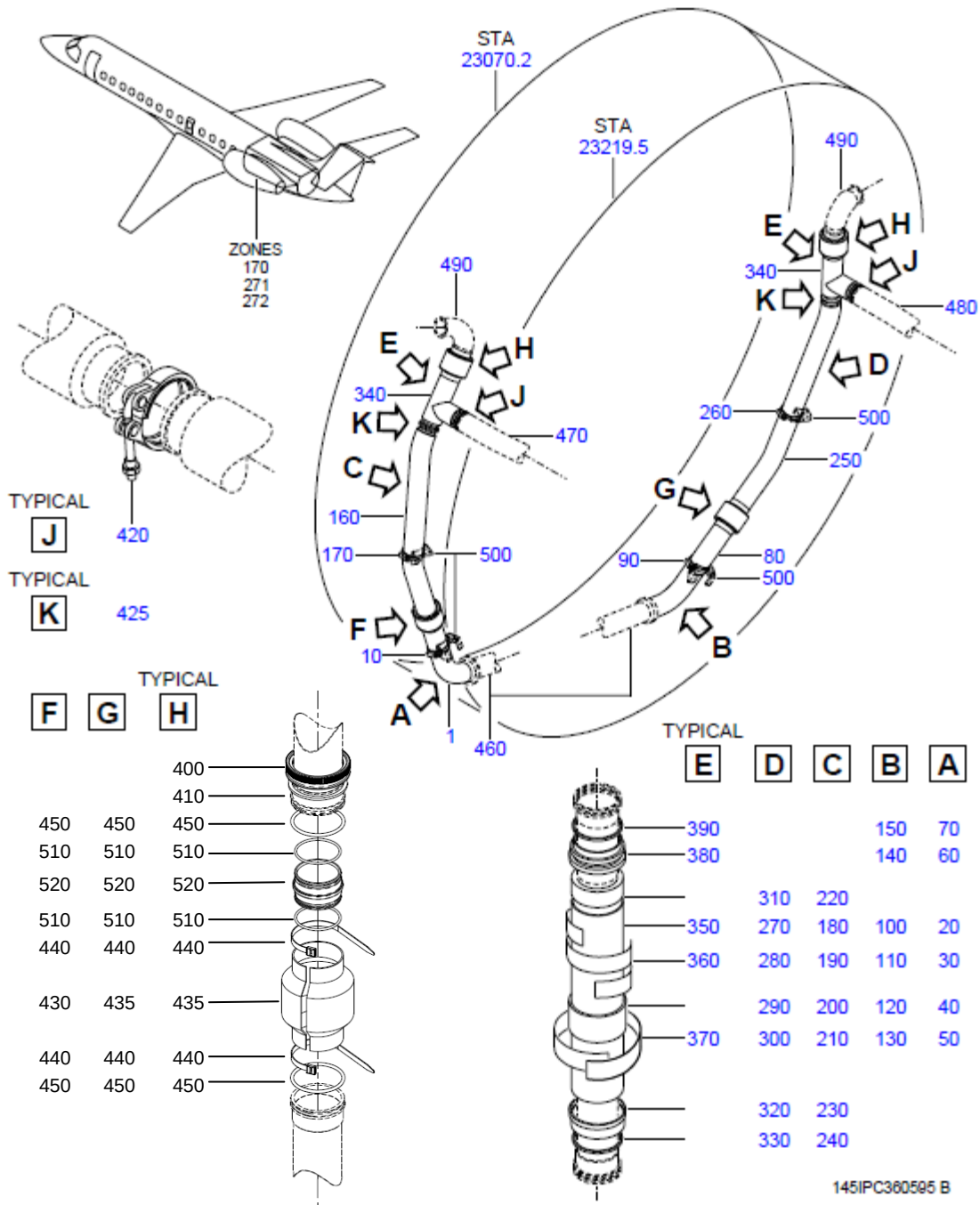


FIGURE 22(SUP) - ENGINE BLEED AIR SYS INSTL, FR 69

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
22			ENGINE BLEED AIR SYS INSTL FR 69 FOR NHA SEE FIGURE 36-13-00-32 FOR NHA SEE FIGURE 36-17-00-03 FOR NHA SEE FIGURE 36-17-00-42 FOR NHA SEE FIGURE 36-17-00-51		REF
1	145-21183-407		.TUBE ASSY (N/P)		REF
1A	145-21183-415		.TUBE ASSY		1
			ATTACHING PARTS		
10	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
- 12	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
20	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
30	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
30A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
40	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
50	PE43022-1		..LABEL		AR
- 52	118-50CS550		..FABRIC GLASS FIBER-CLASS 2,TYPE II, ORDER TRUE P/N: 118-50-CS550 OPTIONAL P/N: 118-50-I550		AR
60	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
70	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		1
80	145-21177-407		.TUBE ASSY (N/P)		REF
80A	145-21177-415		.TUBE ASSY		1

ENGINE BLEED AIR SYS INSTL, FR 69

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
- 92	E8304277		ATTACHING PARTS .WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
100	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
110	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM .. OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
110A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
120	PE43022-1		..LABEL		AR
130	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
- 132	118-50CS550		..FABRIC GLASS FIBER-CLASS 2,TYPE II, ORDER TRUE P/N: 118-50-CS550 OPTIONAL P/N: 118-50-I550		AR
140	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
150	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		1
160	145-25531-415		.TUBE ASSY	145-274	REF
160A	145-25531-419		.TUBE ASSY	145-274	1
160B	145-25531-411		.TUBE ASSY (N/P)	292-99999	REF
160C	145-25531-423		.TUBE ASSY	292-99999	1
170	NAS1922-0275-1H		ATTACHING PARTS .CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1

ENGINE BLEED AIR SYS INSTL, FR 69

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 172	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
180	KA0W00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
190	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
190A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
200	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.8MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.8 LM: AR		AR
210	PE43022-1		..LABEL		AR
220	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
220A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
- 222	118-50CS550		..FABRIC GLASS FIBER-CLASS 2,TYPE II, ORDER TRUE P/N: 118-50-CS550 OPTIONAL P/N: 118-50-I550		AR
230	NR50020-74		..NUT		1
240	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		1
250	145-25532-413		..TUBE ASSY	145-274	REF
250A	145-25532-425		..TUBE ASSY	145-274	1
250B	145-25532-409		..TUBE ASSY (N/P)	292-99999	REF
250C	145-25532-421		..TUBE ASSY	292-99999	1
			ATTACHING PARTS		

ENGINE BLEED AIR SYS INSTL, FR 69

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Fig. 22(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
260	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
- 262	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V96908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
270	KA0W00L6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
280	E8303778		.TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
280A	E7363814		.TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
290	NA1000-1-6		.SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
300	PE43022-1		.LABEL		AR
310	E7184393		.TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
310A	E7363842		.TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
- 312	116-50CS550		.FABRIC GLASS FIBER-CLASS 2,TYPE II, ORDER TRUE P/N: 116-50-CS550 OPTIONAL P/N: 116-50-I550		AR
320	NR50020-74		.NUT		1

ENGINE BLEED AIR SYS INSTL, FR 69

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Fig. 22(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
330	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		1
340	145-21182-405		..TUBE ASSY (N/P) (FOR REPLACEMENT USE P/N 145-21182-409)		REF
340A	145-04742-403		..TUBE T ASSY (N/P) (FOR REPLACEMENT USE P/N 145-04742-409)		REF
340B	145-21182-409		..TUBE ASSY I/W P/N: 145-04742-409		2
340C	145-04742-409		..TUBE T ASSY I/W P/N: 145-21182-409		2
350	KA0W00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
360	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
360A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
- 365	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
- 365A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
370	PE43022-1		..LABEL		AR
- 372	116-50CS550		..FABRIC GLASS FIBER-CLASS 2,TYPE II, ORDER TRUE P/N: 116-50-CS550 OPTIONAL P/N: 116-50-I550		AR
380	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		2
390	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		2
400	NR50020-74		..NUT		2
410	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		2
			ATTACHING PARTS		

ENGINE BLEED AIR SYS INSTL, FR 69

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Fig. 22(SUP)

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
420	NM102420-0200		. V-CLAMP SUPPLIER CODE: V00624		2
425	NM102420-0200		. V-CLAMP SUPPLIER CODE: V00624		2
			* * *		
- 426	140-05310-407		. BLANKET INSULATION ASSY (POST-MOD SB 145-36-0048/01)(POST-MOD SB 145-36-0049)		2
430	713463-11		. COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		1
435	713463-11		. COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		3
- 436	140-05310-405		. BLANKET INSULATION ASSY (POST-MOD SB 145-36-0048/01)(POST-MOD SB 145-36-0049)		3
			ATTACHING PARTS		
440	PLT4SC76		. CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052		8
440A	600-052		. BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76		8
			* * *		
450	S2U2-226		. O'RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 IW P/N: 403039-20		8
450A	403039-20		. O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-226		8
460			ENGINE BLEED AIR SYS INSTL BTW FR 60 AND FR 70 SEE FIGURE 36-17-00-03		REF
470			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND FR 74, LH SIDE SEE FIGURE 36-17-00-42		REF
480			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND FR 74, RH SIDE ... SEE FIGURE 36-17-00-51		REF
490			ENGINE BLEED AIR SYS INSTL LH/RH PYLON SEE FIGURE 36-13-00-02		REF

ENGINE BLEED AIR SYS INSTL, FR 69

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Fig. 22(SUP)
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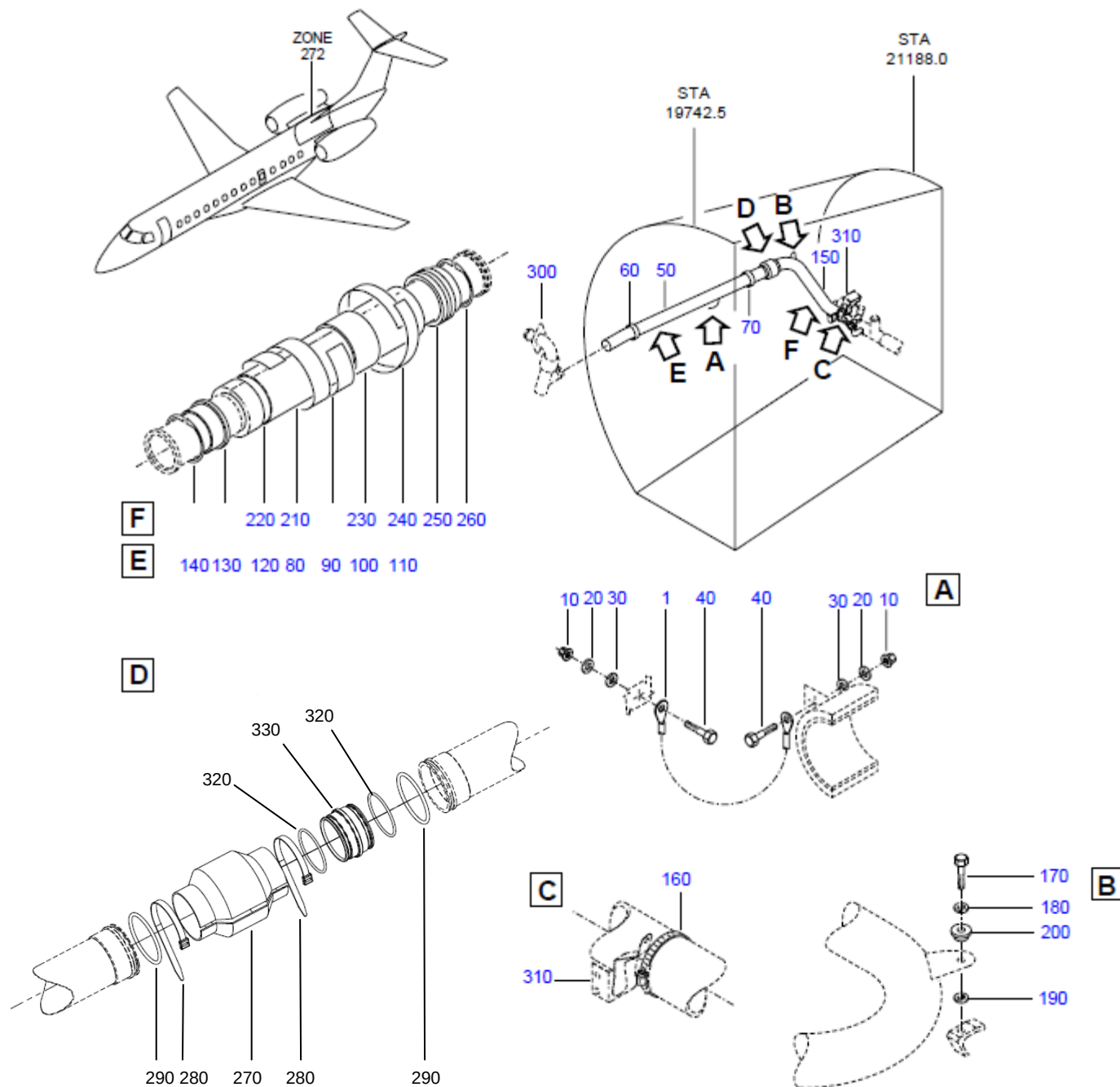
FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
500			SUPPORTS INSTL ENGINE BLEED, FR 69 SEE FIGURE 36-00-00-58		REF
510	S30020SD		O-RING		8
520	T30020SD		SLEEVE		4

ENGINE BLEED AIR SYS INSTL, FR 69

-ITEM NOT ILLUSTRATED

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Fig. 22(SUP)
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145 C38 0621

FIGURE 51(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, RH SIDE

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Fig. 51(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
51			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND FR 74, RH SIDE FOR NHA SEE FIGURE 36-00-00-85 FOR NHA SEE FIGURE 36-17-00-22 FOR NHA SEE FIGURE 36-17-00-81		REF
1	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		1
10	MS21042-08		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98906		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98906		2
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C8L		2
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		2
			* * *		
50	145-21180-405		.TUBE ASSY		1
50A	145-21180-409		.TUBE ASSY-BLEED		1
60	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
70	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		1
			ATTACHING PARTS		
- 71	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
80	KAOWOOL6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, RH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
90A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 .. OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
100	NA1000-1.6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
110	PE43022-1		..LABEL		AR
120	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM .. OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
120A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 .. OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
130	CAR50020-74		..SLEEVE SUPPLIER CODE: V29372		1
140	RA30120-020		..RING RETAINING SUPPLIER CODE: V56135		1
150	145-34420-403		..TUBE ASSY		1
150A	145-34420-407		..TUBE ASSY		1
160	NAS1922-0275-1H		..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
			ATTACHING PARTS		
- 161	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V96906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
170	NAS6203-4		..BOLT-HEXAGON HEAD STEEL SUPPLIER CODE: V80205		1
180	NAS1149D0363H		..WASHER FLAT-ALUMINUM SUPPLIER CODE: V80205 OPTIONAL P/N: AN960D10		1
190	E8722309		..WASHER ORDER OVERLENGTH P/N: PE24030-YB-06-160-10		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, RH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
200	120-14322-001		.BUSHING BLEED TB SPRT		1
			* * *		
210	KAOWOOL-8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6		REF
			SUPPLIER CODE: VBABCO		
			ORDER TRUE P/N: KAOWOOL-8-16MM		
220	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE		AR
			SUPPLIER CODE: V000KK		
			ORDER OVERLENGTH P/N: 5413-50MM ..		
			OPTIONAL P/N: 5413-50MM		
			OPTIONAL P/N: 5413-50MM ..		
			LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
220A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/50 ..		
			OPTIONAL P/N: KB46/50		
			LM: TAPE,POLYIMIDE,50MM		
230	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA		AR
			SUPPLIER CODE: VASBRT		
			ORDER TRUE P/N: NA-1000-1.6		
			LM: AR		
240	PE43022-1		..LABEL		AR
250	NR50020-74		..NUT		1
260	RA30120-020		..RING RETAINING		1
			SUPPLIER CODE: V56135		
270	713463-7		..SLEEVE	145-176	1
			SUPPLIER CODE: V70628		
			RPLD BY P/N: 713463-11		
			(PRE-MOD SB 145-38-0014/02)(ALTERNATIVE USE P/N=4001-S)		
270A	713463-11		..COVER		1
			SUPPLIER CODE: V70628		
			OPTIONAL P/N: 4001-S		
			RPLS P/N: 713463-7		
			(AND FORMER ACFT POST-MOD SB 145-38-0014/02)		
			ATTACHING PARTS		
280	T50L8TZ		..CABLE TIE FOR HARNESS -NYLON		2
			SUPPLIER CODE: VK0720		
			ORDER TRUE P/N: T50L-8TZ		
			OPTIONAL P/N: LK3AHSBLK		
			OPTIONAL P/N: T50L-8TZC2		
			OPTIONAL P/N: T50L-8TZM4		
			IWW P/N: 600-052		
			(PRE-MOD SB 145-38-0014/02) (QUALIFIED INTERCH) (P/N=600-52		
			CAN BE INSTALLED IN THE PLACE OF P/N=T50L-8TZ PROVIDED		
			P/N=713463-7 IS INSTALLED)		
280A	600-052		..BAND-CLAMPING SSTEEL		2
			SUPPLIER CODE: VS0123		
			IWW P/N: T50L-8TZ		
			IWW P/N: PLT4S-C76		
			(PRE-MOD SB 145-38-0014/02)		

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, RH SIDE

-ITEM NOT ILLUSTRATED

Fig. 51(SUP)

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
280B	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98908 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052 (AND FORMER ACFT POST-MOD SB 145-36-0014/02) * * *		2
290	S2U2-226		.O'RING SUPPLIER CODE: V28372 OPTIONAL P/N: AS588-226 OPTIONAL P/N: AS588-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 IW P/N: 403039-20		2
290A	403039-20		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-226		2
300			ENGINE BLEED AIR SYS INSTL FR 69 SEE FIGURE 36-17-00-22		REF
310			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND FR 74, LH SIDE SEE FIGURE 36-17-00-42		REF
320	S30020SD		O-RING		2
330	T30020SD		SLEEVE		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, RH SIDE

-ITEM NOT ILLUSTRATED

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Fig. 51(SUP)
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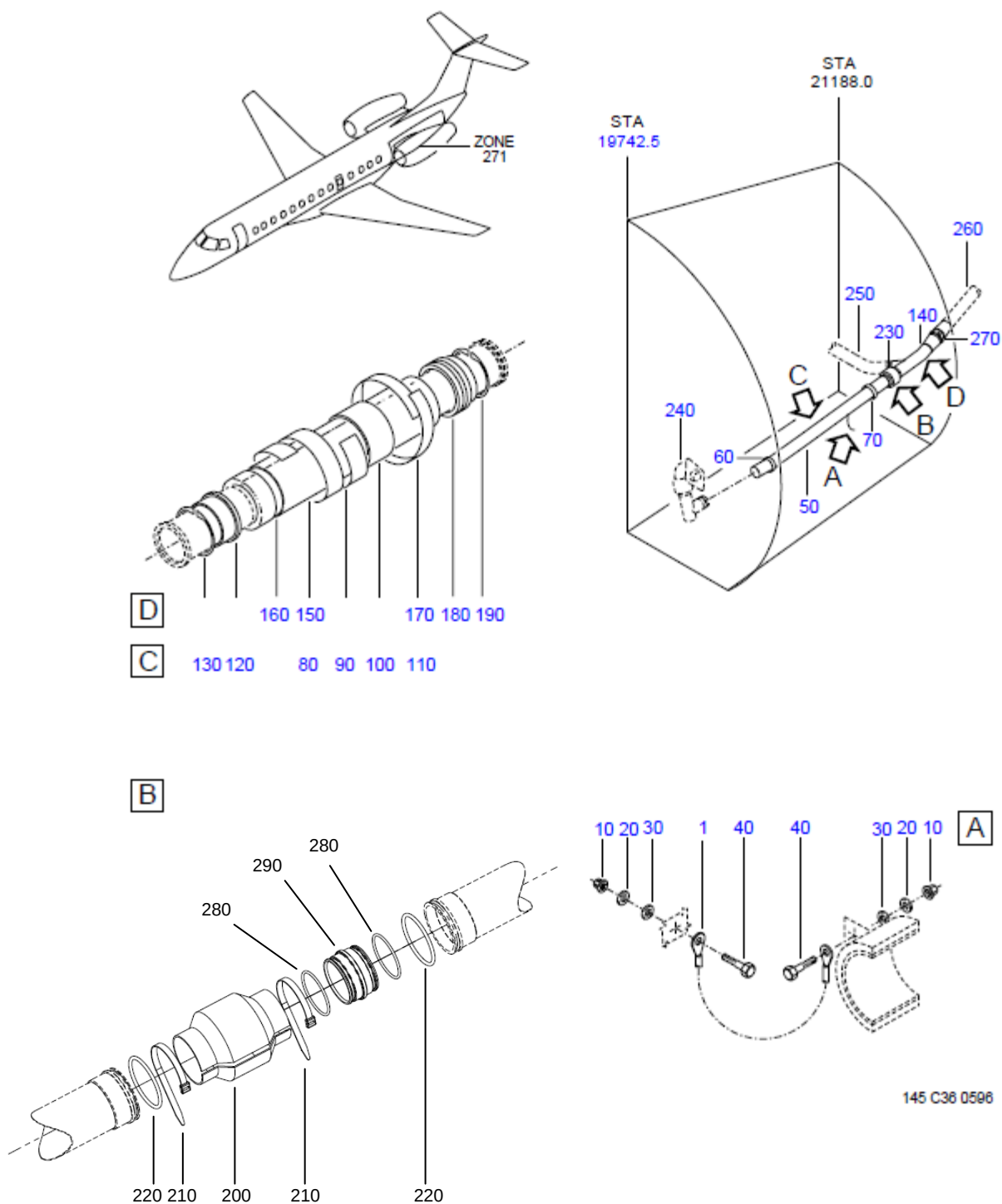


FIGURE 42(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, LH SIDE

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
42			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND FR 74, LH SIDE FOR NHA SEE FIGURE 36-17-00-22 FOR NHA SEE FIGURE 36-17-00-51 FOR NHA SEE FIGURE 36-17-00-81 FOR NHA SEE FIGURE 36-18-00-03		REF
1	LN9264-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9264-1,5X125		1
10	MS21042-08		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		2
30	NAS1149CN616R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C8L		2
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205 * * *		2
50	145-34438-411		.TUBE ASSY		REF
50A	145-34438-425		.TUBE ASSY		1
60	NAS1922-0275-1H		ATTACHING PARTS .CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
70	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		1
- 71	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
80	KAOWOOL8-16MM		.INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, LH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
90A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
100	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
110	PE43022-1		..LABEL		AR
120	NR50025-74		..NUT		1
130	RA30125-020		..RING RETAINING		1
140	145-34417-407		..TUBE ASSY (N/P) (FOR REPLACEMENT USE P/N 145-34417-415)		REF
140A	145-04743-403		..TUBE ASSY (N/P) (FOR REPLACEMENT USE P/N 145-04743-409)		REF
140B	145-34417-415		..TUBE ASSY IW P/N: 145-04743-409		1
140C	145-04743-409		..TUBE ASSY IW P/N: 145-34417-415		1
150	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, LH SIDE

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Fig. 42(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
160	E8303778		.. TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
160A	E7363814		.. TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
- 165	E7184393		.. TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
- 165A	E7363842		.. TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
170	PE43022-1		.. LABEL		AR
180	CAR50025-74		.. SLEEVE SUPPLIER CODE: V29372		1
190	RA30125-020		.. RING RETAINING		1
200	713463-13		.. COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S		1
210	PLT4SC76		ATTACHING PARTS .. CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052		2
210A	600-052		.. BAND-CLAMPING SSTEEL SUPPLIER CODE: VSD123 IW P/N: PLT4S-C76 * * *		2
220	S2U2-230		.. O'RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8546A7257-230 OPTIONAL P/N: 2-230 IW P/N: 403039-25		2

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, LH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
220A	403039-25		.O-RING SUPPLIER CODE: V08118 I/W P/N: S2U2-230		2
230	NM102420-0250		.CLAMP SUPPLIER CODE: V00824		1
240			ENGINE BLEED AIR SYS INSTL FR 69 SEE FIGURE 36-17-00-22		REF
250			ENGINE BLEED AIR SYS INSTL FR 74 SEE FIGURE 36-17-00-81		REF
260			ENGINE BLEED AIR SYS INSTL BTW FR 74 AND 76 SEE FIGURE 36-18-00-03		REF
270			VALVE INSTL CHECK, APU BLEED SEE FIGURE 36-12-02-02		REF
280	S30025SD		O-RING		2
290	T30025SD		SLEEVE		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, LH SIDE

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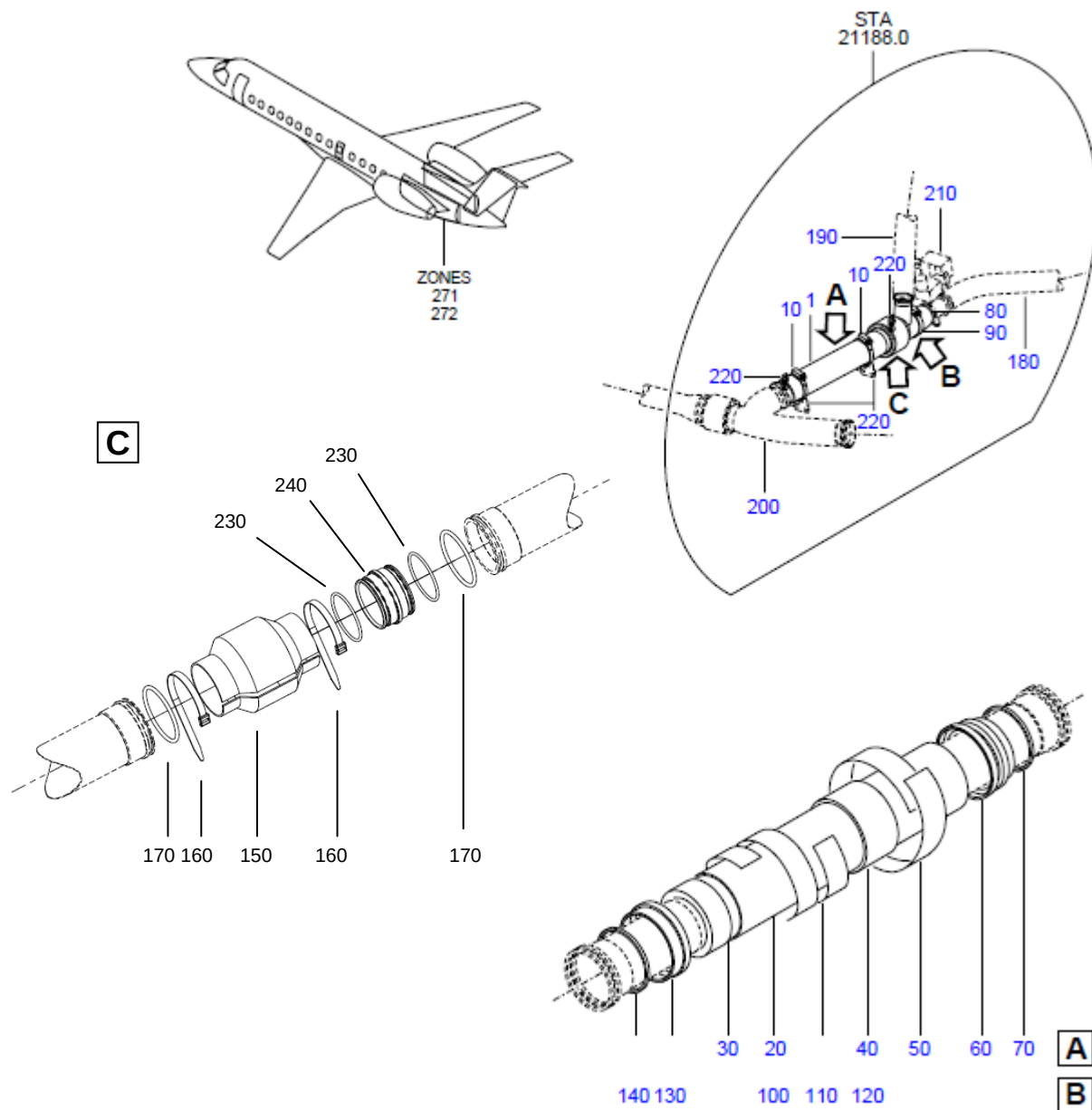


FIGURE 61(SUP) - ENGINE BLEED AIR SYS INSTL, FR 74

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Fig. 61(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
61			ENGINE BLEED AIR SYS INSTL FR 74 FOR NHA SEE FIGURE 36-00-00-72 FOR NHA SEE FIGURE 36-10-01-01 FOR NHA SEE FIGURE 36-17-00-42 FOR NHA SEE FIGURE 36-18-00-21		REF
1	145-34418-403		.TUBE ASSY		REF
1A	145-34418-407		.TUBE ASSY		1
			ATTACHING PARTS		
10	PE27021-7089		.CLAMP MULTIPLE SIZE TANGENCIAL WOR..... OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		2
- 11	E8304277		.WIRE LOCK-SSTEEL..... SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
20	KAOWOOL6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6..... SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
30	E7184393		.TAPE POLYIMIDE,50MM-SILICON ADHESIVE..... SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
30A	E7383842		.TAPE POLYIMIDE,50MM-REINFORCED,SILI..... ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
40	NA1000-1-6		.SHEET HYDRAULIC CARDBOARD,1.6MM-ARA..... SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
50	PE43022-1		.LABEL		AR
60	CAR50025-74		.SLEEVE		1
			SUPPLIER CODE: V29372		
70	RA30125-020		.RING RETAINING		1
80	145-34419-403		.TUBE ASSY		REF
			(N/P) (NOT INTERCH WITH P/N 145-34419-401) (FOR REPLACE- MENT USE P/N145-34419-407)		
80A	145-04740-403		.TUBE ASSY		REF
			(N/P) (FOR REPLACEMENT USE P/N 145-04740-413)		
80B	145-34419-407		.TUBE ASSY		1
			IW P/N: 145-04740-413		

ENGINE BLEED AIR SYS INSTL, FR 74

-ITEM NOT ILLUSTRATED

Fig. 61(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80C	145-04740-413		.TUBE ASSY I/W P/N: 145-34419-407		1
			ATTACHING PARTS		
90	PE27021-7089		.CLAMP MULTIPLE SIZE TANGENCIAL WOR OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		1
- 92	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V96908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
100	KA0W00L6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
110	E8303778		.TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
110A	E7363814		.TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
- 115	E7184393		.TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
- 115A	E7363842		.TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
120	NA1000-1-6		.SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
130	NR50025-74		.NUT		1
140	RA30125-020		.RING RETAINING		1
150	713463-7		.SLEEVE SUPPLIER CODE: V70828 RPLD BY P/N: 713463-13	145-215	1

ENGINE BLEED AIR SYS INSTL, FR 74

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
150A	713463-13		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S RPLS P/N: 713463-7		1
160	T50L8TZ		ATTACHING PARTS .CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: VK0720 ORDER TRUE P/N: T50L-8TZ OPTIONAL P/N: LK3AHSBLK OPTIONAL P/N: T50L-8TZC2 OPTIONAL P/N: T50L-8TZM4 IW P/N: 600-052 (QUALIFIED INTERCH) (P/N 600-052 CAN BE INSTALLED IN THE PLACE OF P/N T50L-8TZ PROVIDED P/N 713463-7 INSTALLED)		2
160A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: T50L-8TZ IW P/N: PLT4S-C76		2
160B	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052		2
			* * *		
170	S2D230		.O'RING ORDER TRUE P/N: S2D-230 RPLD BY P/N: S2U2-230	145-176	2
170A	S2U2-230		.O'RING SUPPLIER CODE: V26372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 RPLS P/N: S2D-230 IW P/N: 403039-25		2
170B	403039-25		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-230		2
180			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND FR 74, RH SIDE ... SEE FIGURE 36-17-00-51		REF
190			ENGINE BLEED AIR SYS INSTL BTW FR 73 AND FR 75 SEE FIGURE 36-18-00-22		REF
200			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND FR 74, LH SIDE SEE FIGURE 36-17-00-42		REF

ENGINE BLEED AIR SYS INSTL, FR 74

-ITEM NOT ILLUSTRATED

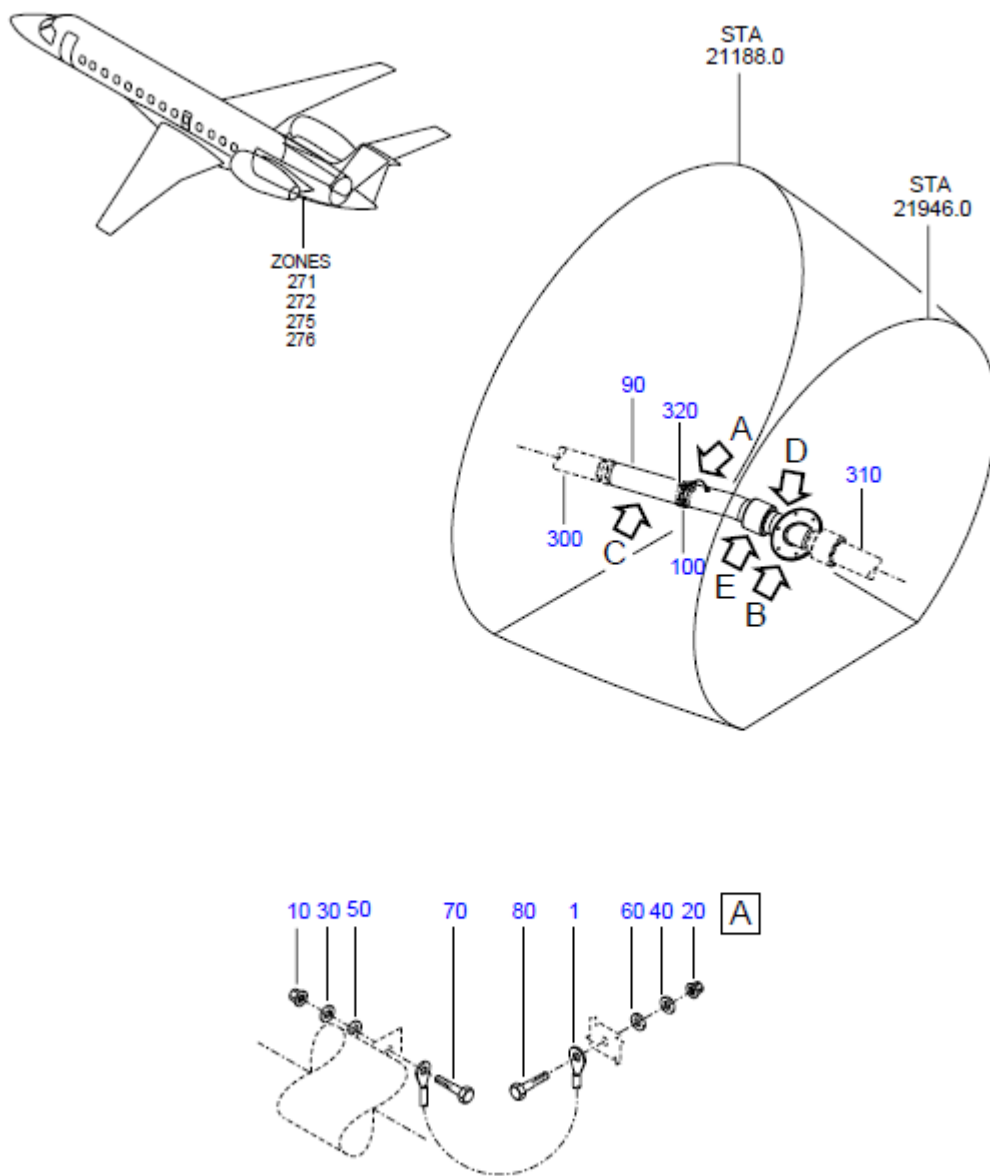
FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
210			VALVE INSTL CROSS-BLEED SEE FIGURE 36-10-01-01		REF
220			SUPPORTS INSTL ENGINE BLEED, FR 74 SEE FIGURE 36-00-00-72		REF
230	S30025SD		O-RING		2
240	T30025SD		SLEEVE		1

ENGINE BLEED AIR SYS INSTL, FR 74

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145 C36 0585

FIGURE 03(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND FR 76
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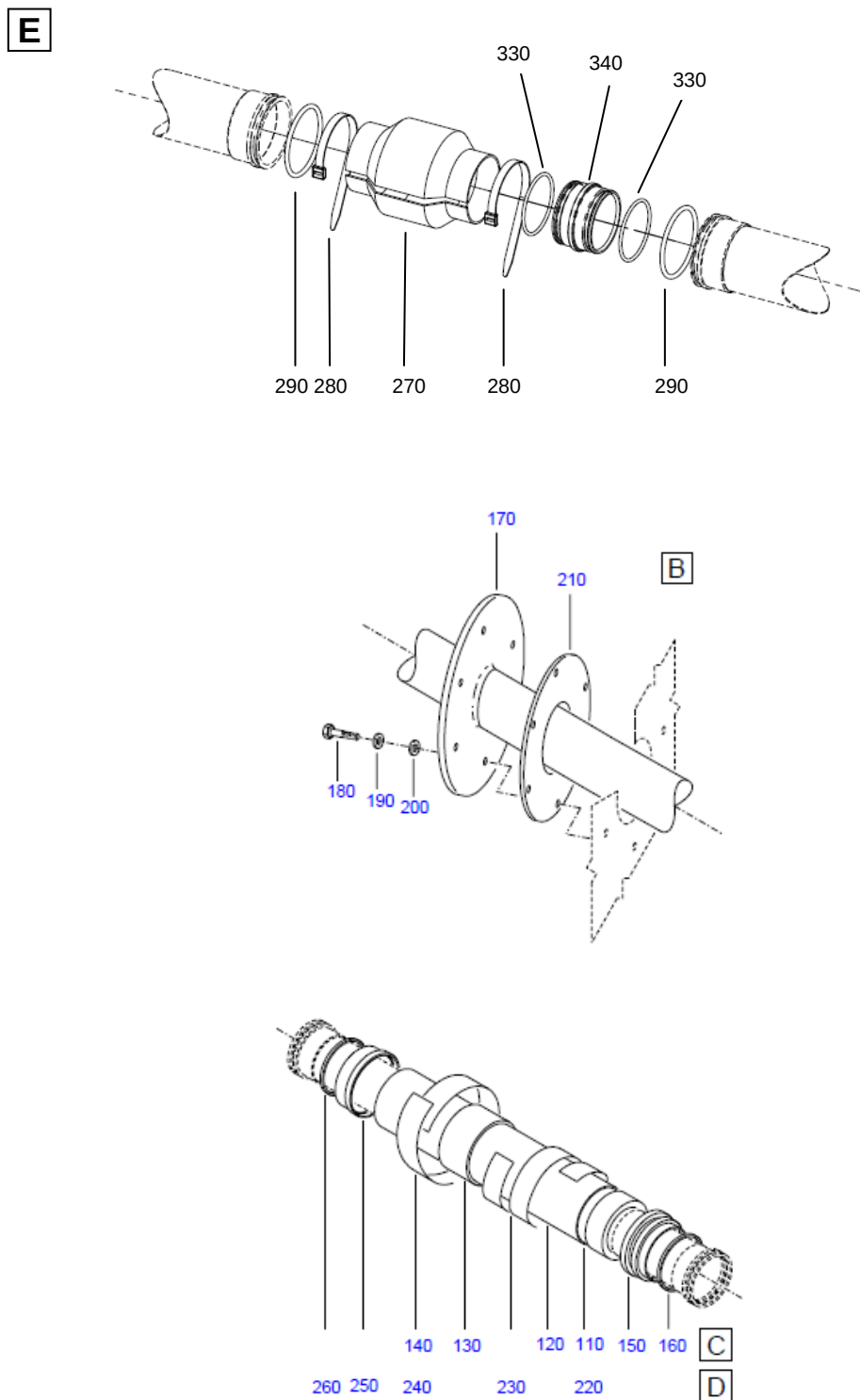


FIGURE 03(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND FR 76
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
03			ENGINE BLEED AIR SYS INSTL BTW FR 74 AND 76 FOR NHA SEE FIGURE 36-17-00-42 FOR NHA SEE FIGURE 36-20-02-19		REF
1	LN9264-4X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442		1
			ATTACHING PARTS		
10	MS21042-08		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		1
20	MS21042-3		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		1
30	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		1
40	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		1
50	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C8L (ALTERNATIVE USE P/N=AN960C8L)		1
60	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C10L OPTIONAL P/N: NAS1149C0332R. (ALTERNATIVE USE P/N=NAS1149C0332R)		1
70	NAS1096-1-6		.SCREW SUPPLIER CODE: V80205		1
80	NAS1096-3-8		.SCREW SUPPLIER CODE: V80205		1
			* * *		
90	145-34416-409		.TUBE ASSY		1
90A	145-34416-417		.TUBE ASSY		1
100	PE27021-7089		.CLAMP MULTIPLE SIZE TANGENCIAL WOR OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		1
			ATTACHING PARTS		
- 102	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
110	KAOW00L8-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND 76

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Fig. 03(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
120	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
120A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/50 .. OPTIONAL P/N: KB48/50 LM: TAPE,POLYIMIDE,50MM		AR
130	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
140	PE43022-1		..LABEL		AR
150	CAR50025-74		..SLEEVE SUPPLIER CODE: V29372		1
180	RA30125-020		..RING RETAINING		1
170	145-34415-403		..TUBE ASSY		1
170A	145-34415-409		..TUBE ASSY		1
ATTACHING PARTS					
180	NAS8203-4		..BOLT-HEXAGON HEAD STEEL SUPPLIER CODE: V80205		8
190	MS35338-138		..WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98906		8
200	NAS1149C0332R		..WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C10L OPTIONAL P/N: NAS1149C0332R. (ALTERNATIVE USE P/N=NAS1149C0332R)		8
* * *					
210	145-21161-001		..PACKING		1
- 212	118-50CS550		..FABRIC GLASS FIBER-CLASS 2,TYPE II, ORDER TRUE P/N: 118-50-CS550 OPTIONAL P/N: 118-50-I550		AR
220	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND 76

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
230	E8303778		.. TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V00KKK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
230A	E7383814		.. TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
240	PE43022-1		.. LABEL		AR
250	NR50025-74		.. NUT		1
260	RA30125-020		.. RING RETAINING		1
270	713463-13		.. COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S		1
			ATTACHING PARTS		
280	PLT4SC76		.. CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052		2
280A	600-052		.. BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76 * * *		2
290	S2U2-230		.. O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 IW P/N: 403039-25		2
290A	403039-25		.. O-RING SUPPLIER CODE: V08118 IW P/N: S2U2-230		2
300			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND FR 74, LH SIDE SEE FIGURE 36-17-00-42		REF
310			.....		REF
320			SUPPORTS INSTL ENGINE BLEED, BTW FR 74 AND FR 80 SEE FIGURE 36-00-00-82		REF
330	S30025SD		O-RING		2
340	T30025SD		SLEEVE		1

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Fig. 03(SUP)
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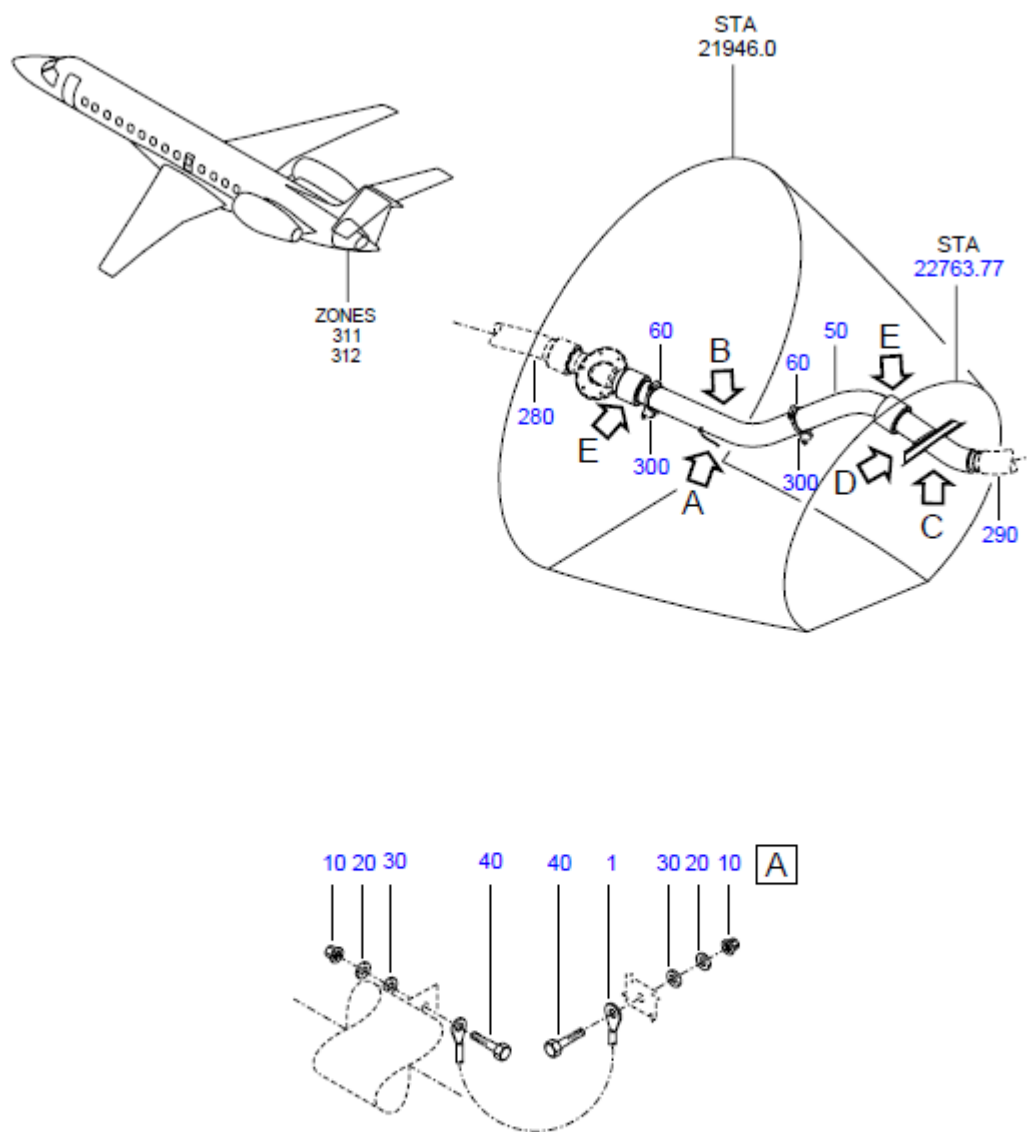


FIGURE 11(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND FR 80
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Fig. 11(SUP)
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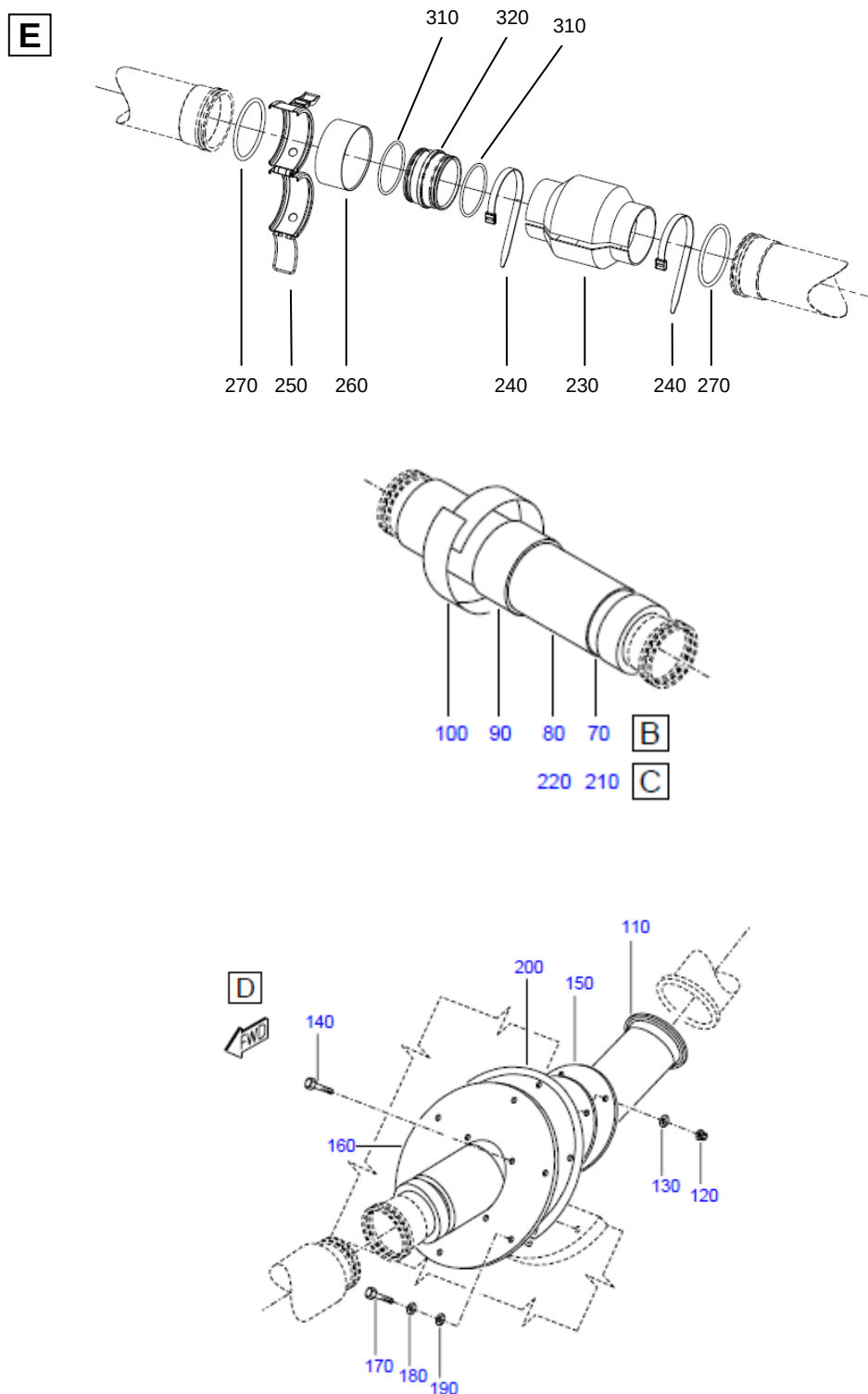


FIGURE 11(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND FR 80
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Seal Dynamics

EMB135

ILLUSTRATED PARTS CATALOG

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
11			ENGINE BLEED AIR SYS INSTL BTW FR 76 AND 80 FOR NHA SEE FIGURE 36-12-01-03 (PRE-MOD SB 145-49-0031/01)		REF
1	LN9284-1-5X200		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X200		1
10	MS21042-08		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		2
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C8L (ALTERNATIVE USE P/N=AN980C8L)		2
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		2
			* * *		
50	145-34414-403		.TUBE ASSY SUPPLIER CODE: V98908		1
50A	145-34414-411		.TUBE ASSY SUPPLIER CODE: V98908		1
60	PE27021-7089		.CLAMP MULTIPLE SIZE TANGENCIAL WOR OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		2
			ATTACHING PARTS .WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
70	KAOWOOL8-16MM		.INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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Fig. 11(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
80A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
90	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.8MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.8 LM: AR		AR
100	PE43022-1		..LABEL		AR
110	145-34413-403		..TUBE ASSY		1
110A	145-34413-407		..TUBE ASSY		1
ATTACHING PARTS					
120	NAS1291C3M		..NUT HEXAGON-SELF LOCKING,CRES SUPPLIER CODE: V80205 OPTIONAL P/N: BH1291C3M OPTIONAL P/N: H42-3 OPTIONAL P/N: NAS1291C3M OPTIONAL P/N: PLH-53M OPTIONAL P/N: P32333		4
130	NAS1149C0332R		..WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C10L OPTIONAL P/N: NAS1149C0332R.		4
140	AN3C3A		..BOLT-HEXAGON HEAD CRES SUPPLIER CODE: V88044 * * *		4
150	145-34423-011		..FLANGE		1
160	145-22416-013		..FLANGE		1
ATTACHING PARTS					
170	AN3C4A		..BOLT-HEXAGON HEAD CRES SUPPLIER CODE: V88044		6
180	MS35338-138		..WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V96906		6
190	NAS1149C0332R		..WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C10L OPTIONAL P/N: NAS1149C0332R. * * *		6
200	145-22415-009		..SEAL		1

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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Fig. 11(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
210	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6		AR
			SUPPLIER CODE: VBABCO		
			ORDER TRUE P/N: KAOWOOL-8-16MM		
220	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE		AR
			SUPPLIER CODE: V000KK		
			ORDER OVERLENGTH P/N: 5413-50MM ..		
			OPTIONAL P/N: 5413-50MM		
			OPTIONAL P/N: 5413-50MM .		
			LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
220A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/50 .		
			OPTIONAL P/N: KB46/50		
			LM: TAPE,POLYIMIDE,50MM		
230	713463-7		..SLEEVE	145-215	2
			SUPPLIER CODE: V70828		
			(PRE-MOD SB 145-38-0014/02)		
230A	713463-13		..COVER	220-99999	2
			SUPPLIER CODE: V70828		
			OPTIONAL P/N: 4002-S		
			(AND FORMER ACFT POST-MOD SB 145-38-0014/02)		
			ATTACHING PARTS		
240	T50L8TZ		..CABLE TIE FOR HARNESS -NYLON		4
			SUPPLIER CODE: VK0720		
			ORDER TRUE P/N: T50L-8TZ		
			OPTIONAL P/N: LK3AHSBLK		
			OPTIONAL P/N: T50L-8TZC2		
			OPTIONAL P/N: T50L-8TZM4		
			I/W P/N: 800-052		
			(PRE-MOD SB 145-38-0014/02) (QUALIFIED INTERCH) (P/N=800-52		
			CAN BE INSTALLED IN THE PLACE OF P/N=T50L-8TZ PROVIDED		
			P/N=713463-7 IS INSTALLED)		
240A	800-052		..BAND-CLAMPING SSTEEL		4
			SUPPLIER CODE: VS0123		
			I/W P/N: T50L-8TZ		
			I/W P/N: PLT4S-C78		
240B	PLT4SC78		..CABLE TIE FOR HARNESS -NYLON		4
			SUPPLIER CODE: V98908		
			ORDER TRUE P/N: PLT4S-C78		
			OPTIONAL P/N: PLT4S-M78		
			OPTIONAL P/N: TYZ28M		
			I/W P/N: 800-052		
			(AND FORMER ACFT POST-MOD SB 145-38-0014/02)		
			* * *		
250	CA33025		..CLAMP		2
			SUPPLIER CODE: V29372		
			ATTACHING PARTS		

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 252	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 (PRE-MOD SB 145-36-0023)	145-399	AR
- 252A	E8198890		.WIRE-LOCK SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C32 .. OPTIONAL P/N: MS20995C32 OPTIONAL P/N: MS20995C32 .. (AND FORMER ACFT POST-MOD SB 145-36-0023) * * *	403-99999	AR
280	G30025C		.SLEEVE	145-399	2
260A	G30025CD		.SLEEVE RPLD BY P/N: G30025C	186-399	2
260B	G30025C		.SLEEVE	403-99999	2
270	S2U2-230		.O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 IW P/N: 403039-25		4
270A	403039-25		.O-RING SUPPLIER CODE: V08118 IW P/N: S2U2-230		4
280			.		REF
290			VALVE INSTL APU BLEED, APU MODEL 40C14		REF
300			SEE FIGURE 36-12-01-03 SUPPORTS INSTL ENGINE BLEED, BTW FR 74 AND FR 80		REF
310	S30025SD		O-RING		4
320	T30025SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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Fig. 11(SUP)
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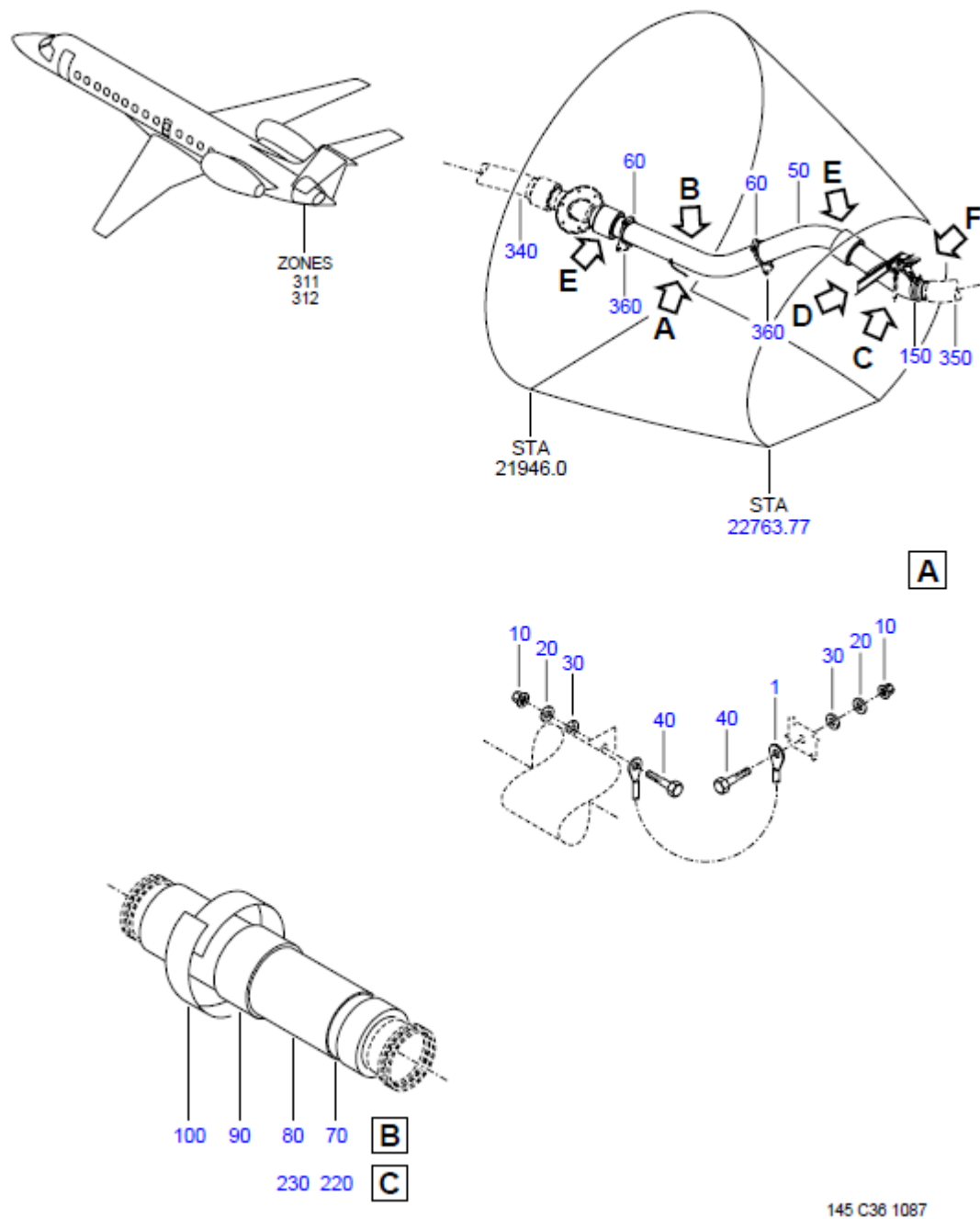


FIGURE 11A(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND FR 80
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Fig. 11A(SUP)
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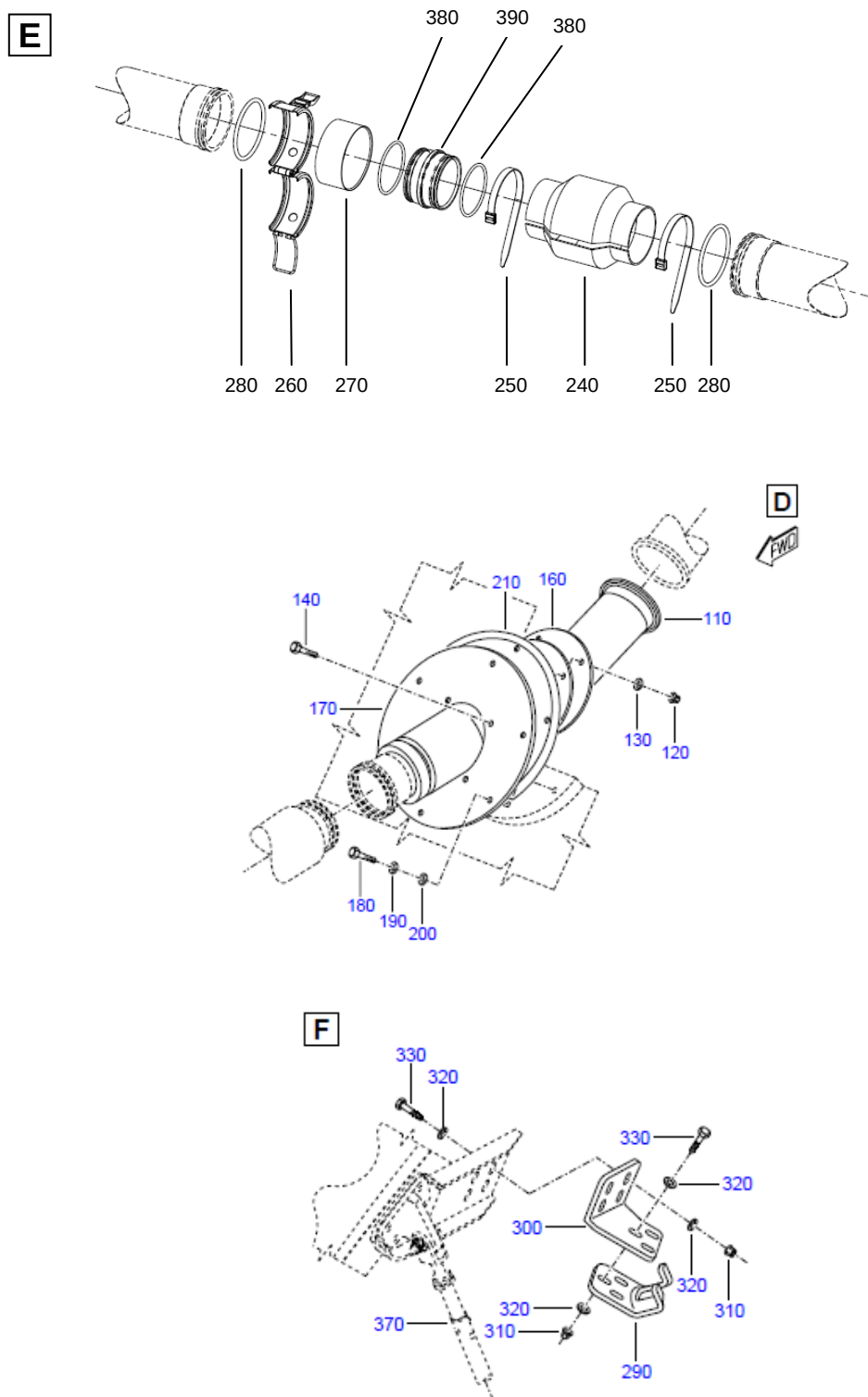


FIGURE 11A(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND FR 80
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
11A			ENGINE BLEED AIR SYS INSTL BTW FR 76 AND 80 FOR NHA SEE FIGURE 36-12-01-03 (POST-MOD SB 145-49-0031/01)		REF
1	LN9284-1-5X200		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X200		1
			ATTACHING PARTS		
10	MS21042-08		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		2
30	NAS1149CN616R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C6L		2
40	NAS1086-1-8		.SCREW SUPPLIER CODE: V80205		2
			* * *		
50	145-34414-403		.TUBE ASSY		1
50A	145-34414-411		.TUBE ASSY		1
60	PE27021-7089		.CLAMP MULTIPLE SIZE TANGENCIAL WOR OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		2
			ATTACHING PARTS		
62	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
70	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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Fig. 11A(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
80A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 .. OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
90	NA1000-1.8		..SHEET HYDRAULIC CARDBOARD,1.8MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.8 LM: AR		AR
100	PE43022-1		..LABEL		AR
110	145-34413-803		..SERVICE BULLETIM TUBE ASSY		1
			ATTACHING PARTS		
120	NAS1291C3M		..NUT HEXAGON-SELF LOCKING,CRES SUPPLIER CODE: V80205 OPTIONAL P/N: BH1291C3M OPTIONAL P/N: H42-3 OPTIONAL P/N: NAS1291C3M OPTIONAL P/N: PLH-53M OPTIONAL P/N: P32333		4
130	NAS1149C0332R		..WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C10L OPTIONAL P/N: NAS1149C0332R.		4
140	AN3C3A		..BOLT-HEXAGON HEAD CRES SUPPLIER CODE: V88044		4
150	320C82-285M		..CLAMP ASSY-BOLT T HEAD SUPPLIER CODE: V00624		1
			* * *		
160	145-34423-011		..FLANGE		1
170	145-22416-013		..FLANGE		1
			ATTACHING PARTS		
180	AN3C4A		..BOLT-HEXAGON HEAD CRES SUPPLIER CODE: V88044		6
190	MS35338-138		..WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98906		6
200	NAS1149C0332R		..WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C10L OPTIONAL P/N: NAS1149C0332R.		6
			* * *		
210	145-22415-009		..SEAL		1

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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Fig. 11A(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
220	KAOW00L6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
230	E7363842		.TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
240	713463-7		.SLEEVE SUPPLIER CODE: V70628 (PRE-MOD SB 145-36-0014/02)	145-215	2
240A	713463-13		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S (AND FORMER ACFT POST-MOD SB 145-36-0014/02)	220-99999	2
250	T50L6TZ		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: VK0720 ORDER TRUE P/N: T50L-6TZ OPTIONAL P/N: LK3AHSBLK OPTIONAL P/N: T50L-6TZC2 OPTIONAL P/N: T50L-6TZM4 I/W P/N: 600-052 (PRE-MOD SB 145-36-0014/02) (QUALIFIED INTERCH) (P/N=600-052 CAN BE INSTALLED IN THE PLACE OF P/N=T50R-6TZ PROVIDED P/N=713463-7 IS INSTALLED)		4
250A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: T50L-6TZ I/W P/N: PLT4S-C76		4
250B	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ26M I/W P/N: 600-052 (AND FORMER ACFT POST-MOD SB 145-36-0014/02)		4
260	CA33025		.CLAMP SUPPLIER CODE: V29372 ATTACHING PARTS		2

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

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Fig. 11A(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 262	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 (PRE-MOD SB 145-38-0023)	145-399	AR
- 262A	E8198890		.WIRE-LOCK SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C32 .. OPTIONAL P/N: MS20995C32 OPTIONAL P/N: MS20995C32 . (AND FORMER ACFT POST-MOD SB 145-38-0023) * * *	403-99999	AR
270	G30025CD		.SLEEVE	145-399	2
270A	G30025C		.SLEEVE	403-99999	2
280	S2U2-230		.O'RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 IW P/N: 403039-25		4
280A	403039-25		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-230		4
290	140-04328-003		.SUPPORT		1
300	140-04328-001		.SUPPORT		1
310	NAS1291C3M		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,CRES SUPPLIER CODE: V80205 OPTIONAL P/N: BH1291C3M OPTIONAL P/N: H42-3 OPTIONAL P/N: NAS1291C3M OPTIONAL P/N: PLH-53M OPTIONAL P/N: P32333		7
320	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C10L OPTIONAL P/N: NAS1149C0332R.		14
330	NAS6403A5		.BOLT SUPPLIER CODE: V80205 * * *		7
340					REF

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
350			VALVE INSTL APU BLEED, APU MODEL 40C14		REF
			SEE FIGURE 36-12-01-03		
360			SUPPORTS INSTL ENGINE BLEED, BTW FR 74 AND FR 80		REF
			SEE FIGURE 36-00-00-82		
370			.....		REF
			APU MOUNTING INSTL, REAR FUSLG II (SEE CHAPTER 40)		
380	S30025SD		O-RING		4
390	T30025SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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Fig. 11A(SUP)
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Seal Dynamics

13780 McCormick Drive
Tampa, Florida 33626

Embraer EMB-145

Supplemental Illustrated Parts Catalog Pages (IPC)

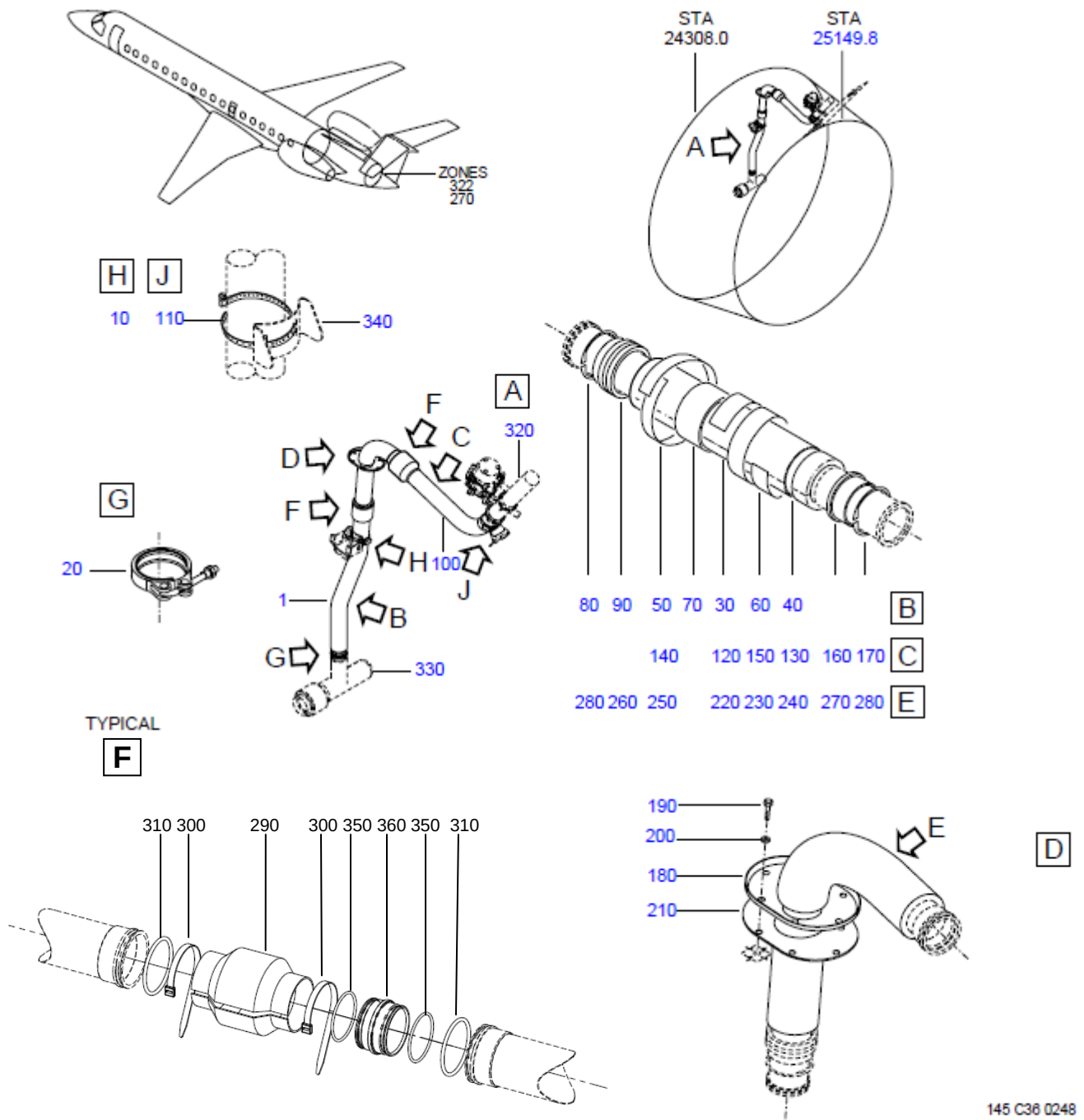


FIGURE 23(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND FR 75

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Fig. 23(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
23			ENGINE BLEED AIR SYS INSTL BTW FR 73 AND 75 FOR NHA SEE FIGURE 36-00-00-91 FOR NHA SEE FIGURE 36-17-00-50 FOR NHA SEE FIGURE 36-17-00-51 FOR NHA SEE FIGURE 36-17-00-60	590-888 890-99999	REF
1	145-49088-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49088-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49088-401)	590-888 890-934	1
1A	145-49088-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49088-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
10	PE27021-5770		ATTACHING PARTS .CLAMP OPTIONAL P/N: FIF5770		1
- 11	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
20	NM102420-0150		.T-BOLT LATCH COUPLING J13 SUPPLIER CODE: V00624		1
30	KAOWOOL6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM (1100CM2)		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND 75

-ITEM NOT ILLUSTRATED

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Fig. 23(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
40	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-888 880-934	AR
40A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
50	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-888 880-934	AR
50A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
60	PE43022-1		..LABEL (300CM2)		AR
70	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (95CM2) LM: AR		AR
80	CRA56315T		..COUPLER SUPPLIER CODE: V29372		1
90	RA30115T		..RING RETAINING SUPPLIER CODE: V29372		1
100	145-49090-401		..TUBE ASSY IW P/N: 145-49090-403		1
100A	145-49090-403		..TUBE ASSY IW P/N: 145-49090-401		1
110	NAS1922-0275-1H		ATTACHING PARTS ..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275	935-99999	1

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND 75

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 111	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
120	KAOWOOL6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM (1000CM2)		AR
130	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. IW P/N: KB46/20 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
130A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 IW P/N: 5413-19MM . LM: TAPE,POLYIMIDE,20MM		AR
140	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . IW P/N: KB46/50 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
140A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 IW P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,50MM		AR
150	PE43022-1		..LABEL (300MM)		AR
160	NR58115T		..NUT POSITIVELOK SUPPLIER CODE: V29372		1
170	RA30115T		..RING RETAINING SUPPLIER CODE: V29372		1
180	145-49089-401		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49089-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49089-401)	590-688 690-934	1

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND 75

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
180A	145-49089-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49089-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
190	NAS8203-4		ATTACHING PARTS .BOLT-HEXAGON HEAD STEEL SUPPLIER CODE: V80205		6
200	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C10L OPTIONAL P/N: NAS1149C0332R. * * *		6
210	145-21161-011		.PACKING		1
220	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM (1000CM2)		AR
230	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB48/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-888 690-934	AR
230A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/50 . OPTIONAL P/N: KB48/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
240	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB48/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-888 690-934	AR
240A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 . OPTIONAL P/N: KB48/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
250	PE43022-1		..LABEL (300MM)		AR
280	CRA56315T		..COUPLER SUPPLIER CODE: V29372		1

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND 75

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
270	NR56115T		..NUT POSITIVELOK SUPPLIER CODE: V29372		1
280	RA30115T		..RING RETAINING SUPPLIER CODE: V29372		2
290	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		2
			ATTACHING PARTS		
300	PLT4SC78		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98908 ORDER TRUE P/N: PLT4S-C78 OPTIONAL P/N: PLT4S-M78 OPTIONAL P/N: TYZ28M * * *		4
310	S2U2-222		.O'RING-SEAL 1.5,PERFLUORCARBON SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-222 OPTIONAL P/N: AS568-222 Z7257 OPTIONAL P/N: S2U222 OPTIONAL P/N: S2U2222 OPTIONAL P/N: S2U3-222 OPTIONAL P/N: V8545A7257-222 OPTIONAL P/N: 2-222 IW P/N: 403039-15		4
310A	403039-15		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-222		4
320			 DEICING SYSTEM INSTL, VERTICAL STABILIZER (SEE CHAPTER 30)		REF
330			.....		REF
340			SUPPORTS INSTL ENGINE BLEED, BTW FR 73 AND FR 75 SEE FIGURE 36-00-00-91		REF
350	S30015SD		O-RING		4
360	T30015SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 73 AND 75

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Fig. 23(SUP)
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EMB145 ILLUSTRATED PARTS CATALOG

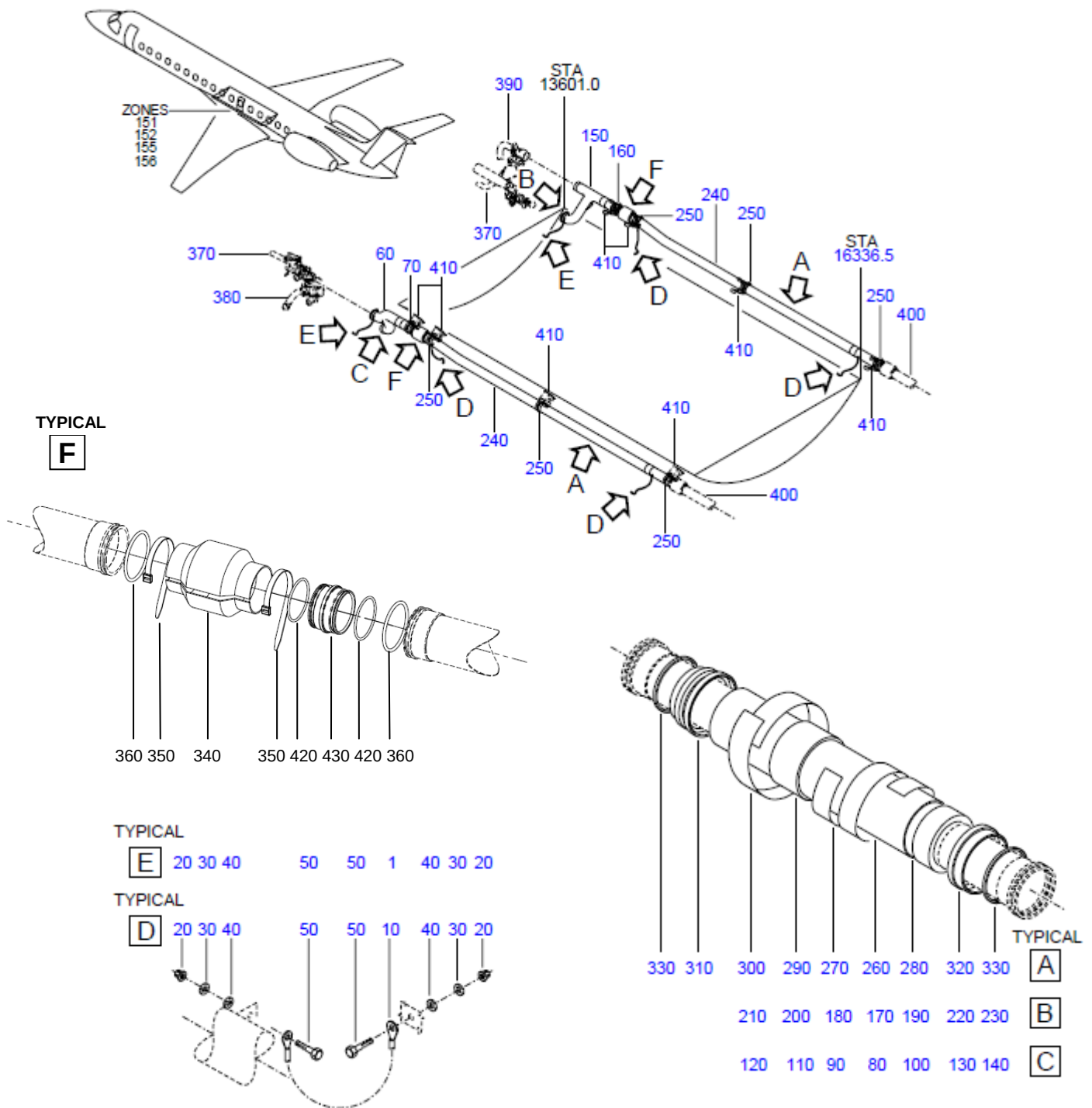


FIGURE 01(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
01			ENGINE BLEED AIR SYS INSTL BTW FR 40 AND FR 49 FOR NHA SEE FIGURE 36-00-00-01 FOR NHA SEE FIGURE 36-15-00-20 FOR NHA SEE FIGURE 36-20-02-01		REF
1	LN9284-4X200		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 OPTIONAL P/N: LN9284-4X200		2
10	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		4
			ATTACHING PARTS		
20	MS21042-06		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98906		12
30	NAS1149CN618R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C8L (ALTERNATIVE USE P/N=AN980C8L)		12
40	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98906		12
50	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		12
			* * *		
60	145-49080-401		.TUBE ASSY I/W P/N: 145-49080-403		1
60A	145-49080-403		.TUBE ASSY I/W P/N: 145-49080-401		1
70	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		1
			ATTACHING PARTS		
- 72	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
80	KAOWOOL-8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM (2200CM2)		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

-ITEM NOT ILLUSTRATED

36-15-00

Fig. 01(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. I/W P/N: KB46/20 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
90A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 I/W P/N: 5413-19MM . LM: TAPE,POLYIMIDE,20MM		AR
100	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . I/W P/N: KB46/50 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
100A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 I/W P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,50MM		AR
110	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (95CM2) LM: AR		AR
120	PE43022-1		..LABEL (300MM)		AR
130	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
140	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
150	145-49061-401		..TUBE ASSY I/W P/N: 145-49061-403		1
150A	145-49061-403		..TUBE ASSY I/W P/N: 145-49061-401		1
160	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770 ATTACHING PARTS		1

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 162	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
170	KAOWOOL-6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM (2200CM2)		AR
180	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. I/W P/N: KB46/20 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
180A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 I/W P/N: 5413-19MM . LM: TAPE,POLYIMIDE,20MM		AR
190	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . I/W P/N: KB46/50 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
190A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 I/W P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,50MM		AR
200	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (95CM2) LM: AR		AR
210	PE43022-1		..LABEL (300MM)		AR
220	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
230	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
240	145-49062-401		..TUBE ASSY I/W P/N: 145-49062-403		2

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
240A	145-49082-403		.TUBE ASSY		2
			I/W P/N: 145-49082-401		
250	PE27021-5770		.CLAMP		6
			OPTIONAL P/N: FIF5770		
			ATTACHING PARTS		
- 252	E8304277		.WIRE LOCK-SSTEEL		AR
			SUPPLIER CODE: V98908		
			ORDER OVERLENGTH P/N: MS20995C20 ...		
			OPTIONAL P/N: MS20995C20		
			OPTIONAL P/N: MS20995C20		
			* * *		
260	KAOW00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8		AR
			SUPPLIER CODE: VBABCO		
			ORDER TRUE P/N: KAOWOOL-8-16MM		
			(10200CM2)		
270	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE		AR
			SUPPLIER CODE: V000KK		
			ORDER OVERLENGTH P/N: 5413-19MM .		
			OPTIONAL P/N: 5413-19MM		
			OPTIONAL P/N: 5413-19MM ..		
			I/W P/N: KB46/20 .		
			LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
270A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/20 .		
			OPTIONAL P/N: KB46/20		
			I/W P/N: 5413-19MM .		
			LM: TAPE,POLYIMIDE,20MM		
280	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE		AR
			SUPPLIER CODE: V000KK		
			ORDER OVERLENGTH P/N: 5413-50MM ..		
			OPTIONAL P/N: 5413-50MM		
			OPTIONAL P/N: 5413-50MM .		
			I/W P/N: KB46/50 .		
			LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
280A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/50 .		
			OPTIONAL P/N: KB46/50		
			I/W P/N: 5413-50MM ..		
			LM: TAPE,POLYIMIDE,50MM		
290	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA		AR
			SUPPLIER CODE: VASBRT		
			ORDER TRUE P/N: NA-1000-1.6		
			(570CM2)		
			LM: AR		
- 290A	PE15018-1		..HYDRAULIC CARDBOARD 1.6MM		AR
			SUPPLIER CODE: VASBRT		
300	PE43022-1		..LABEL		AR
			(800MM)		

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
310	CRA56320T		..COUPLER SUPPLIER CODE: V29372		2
320	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		2
330	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		4
340	713463-11		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		2
- 341	140-05310-405		..BLANKET INSULATION ASSY (POST-MOD SB 145-36-0048/01)		2
- 341A	140-05346-401		..BLANKET INSULATION ASSY (POST-MOD SB 145-36-0049)		2
			ATTACHING PARTS		
350	PLT4SC76		..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052		4
350A	600-052		..BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76 * * *		4
360	S2U2-226		..O'RING-2.0 PERFLUORCARBON SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 IW P/N: 403039-20		4
360A	403039-20		..O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-226		4
370			 PACK VALVE 1 & 2 INSTL, WING/FUSLG FAIR (SEE CHAPTER 21)		REF
380			 DEICING SYS INSTL, CENTER FUSLG, LH SIDE (SEE CHAPTER 30)		REF
390			 DEICING SYS INSTL, CENTER FUSLG, RH SIDE (SEE CHAPTER 30)		REF
400			ENGINE BLEED AIR SYS INSTL BTW FR 49 AND FR 52 SEE FIGURE 36-15-00-20		REF

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

-ITEM NOT ILLUSTRATED

36-15-00Fig. 01(SUP)
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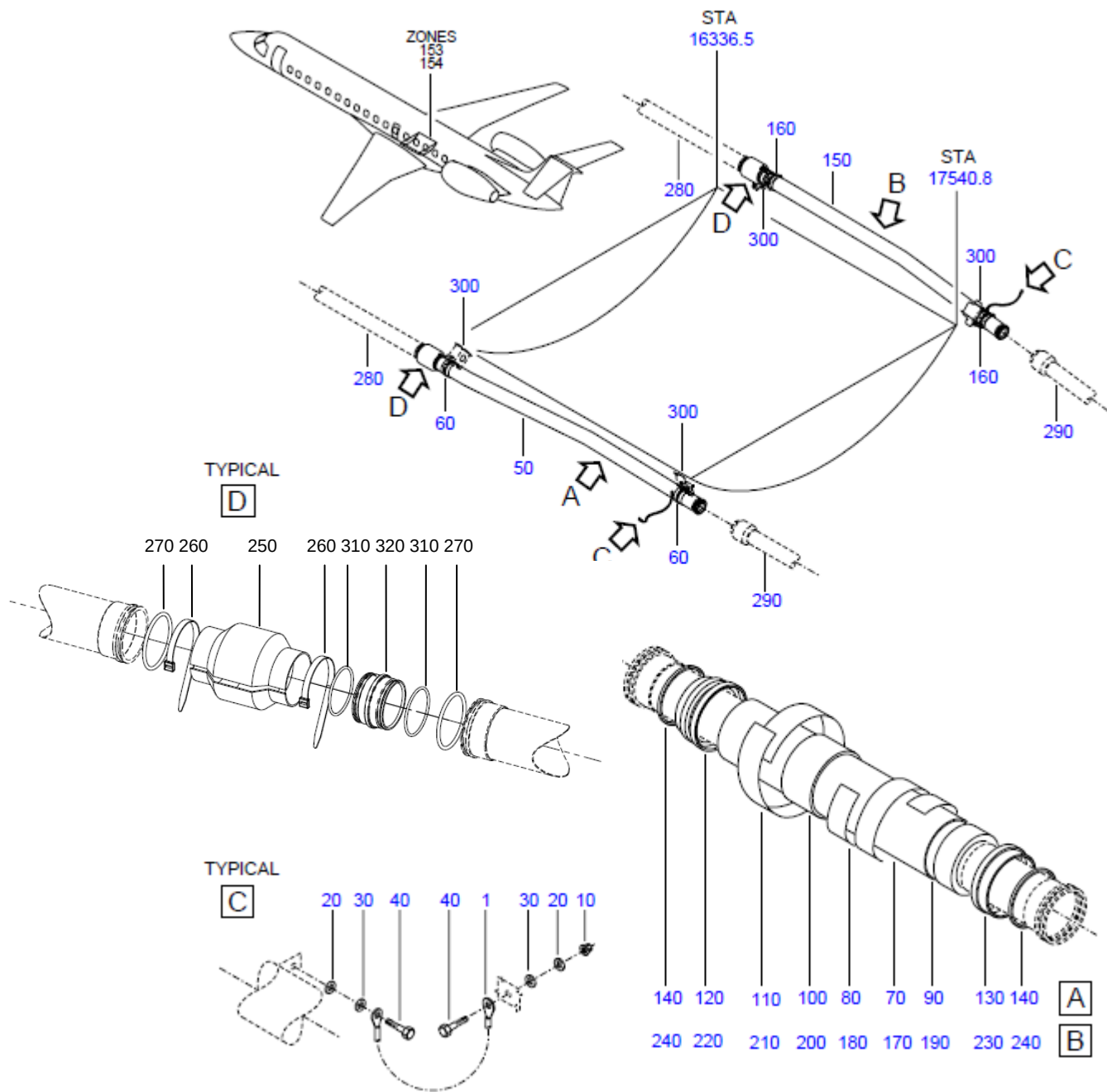
Seal Dynamics

EMB145 ILLUSTRATED PARTS CATALOG

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
410			-----		REF
420	S30020SD		O-RING		4
430	T30020SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 40 AND FR 49

-ITEM NOT ILLUSTRATED



145 C36 0450

FIGURE 20(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

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Fig. 20(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
20			ENGINE BLEED AIR SYS INSTL BTW FR 49 AND FR 52 FOR NHA SEE FIGURE 36-00-00-10 FOR NHA SEE FIGURE 36-15-00-01 FOR NHA SEE FIGURE 36-16-00-01 FOR NHA SEE FIGURE 36-20-02-09		REF
1	LN9264-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: V08442 ORDER TRUE P/N: LN9264-1,5X125		2
10	MS21042-06		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98906		2
20	NAS1149CN616R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C6L (ALTERNATIVE USE P/N=AN980C6L)		4
30	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98906		4
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		4
			* * *		
50	145-52031-402		.TUBE ASSY IW P/N: 145-52031-404		1
50A	145-52031-404		.TUBE ASSY IW P/N: 145-52031-402		1
60	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
			ATTACHING PARTS		
- 62	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
70	KAOWOOL6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM (3200CM2)		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

-ITEM NOT ILLUSTRATED

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Fig. 20(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. I/W P/N: KB46/20 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
80A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 I/W P/N: 5413-19MM . LM: TAPE,POLYIMIDE,20MM		AR
90	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . I/W P/N: KB46/50 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
90A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 I/W P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,50MM		AR
100	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (190CM2) LM: AR		AR
110	PE43022-1		..LABEL (300MM)		AR
120	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
130	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
140	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2
150	145-52031-401		..TUBE ASSY I/W P/N: 145-52031-403		1
150A	145-52031-403		..TUBE ASSY I/W P/N: 145-52031-401		1
160	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770 ATTACHING PARTS		2

ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 162	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
170	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM (3200MM)		AR
180	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. IW P/N: KB48/20 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
180A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 . OPTIONAL P/N: KB48/20 IW P/N: 5413-19MM . LM: TAPE,POLYIMIDE,20MM		AR
190	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . IW P/N: KB48/50 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
190A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/50 . OPTIONAL P/N: KB48/50 IW P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,50MM		AR
200	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (190CM2) LM: AR		AR
210	PE43022-1		..LABEL (300MM)		AR
220	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
230	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
240	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2

ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
250	713463-11		.COVER SUPPLIER CODE: V70828 OPTIONAL P/N: 4001-S		2
280	PLT4SC78		ATTACHING PARTS .CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98908 ORDER TRUE P/N: PLT4S-C78 OPTIONAL P/N: PLT4S-M78 OPTIONAL P/N: TYZ28M IW P/N: 800-052		4
260A	800-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C78		4
			* * *		
270	S2U2-228		.O-RING-2.0 PERFLUORCARBON SUPPLIER CODE: V28372 OPTIONAL P/N: AS568-228 OPTIONAL P/N: AS568-228 Z7257 OPTIONAL P/N: S2U2228 OPTIONAL P/N: S2U228 OPTIONAL P/N: S2U3-228 OPTIONAL P/N: V8545A7257-228 OPTIONAL P/N: 2-228 IW P/N: 403039-20		4
270A	403039-20		.O-RING SUPPLIER CODE: V08118 IW P/N: S2U2-228		4
280			ENGINE BLEED AIR SYS INSTL BTW FR 40 AND FR 49 SEE FIGURE 36-15-00-01		REF
290			ENGINE BLEED AIR SYS INSTL BTW FR 52 AND FR 58 SEE FIGURE 36-16-00-01		REF
300			.....		REF
310	S30020SD		O-RING		4
320	T30020SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 49 AND FR 52

-ITEM NOT ILLUSTRATED

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Fig. 20(SUP)
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Seal Dynamics

EMB145 ILLUSTRATED PARTS CATALOG

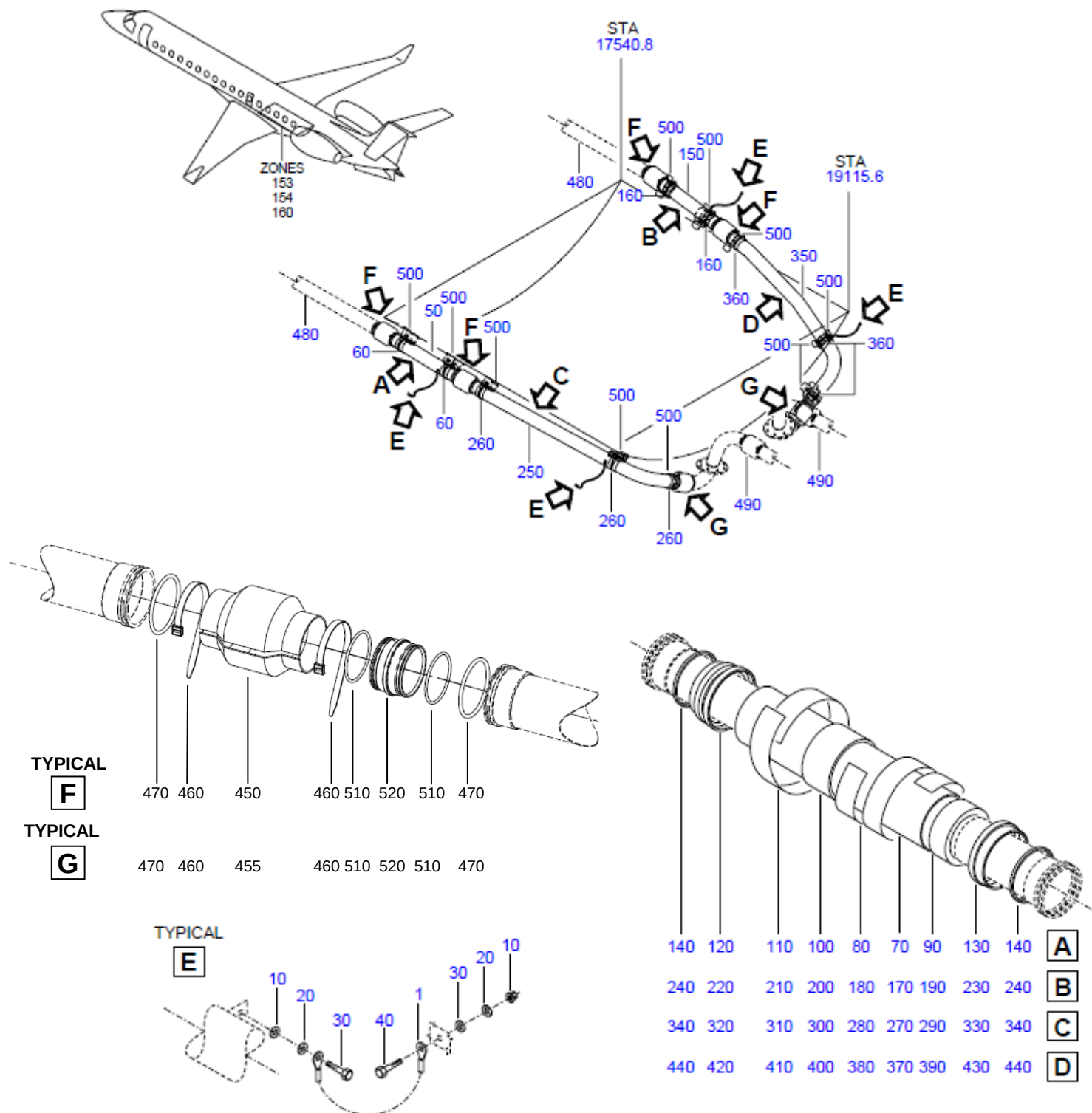


FIGURE 01(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

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Fig. 01(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
01			ENGINE BLEED AIR SYS INSTL BTW FR 52 AND FR 56 FOR NHA SEE FIGURE 36-00-00-20 FOR NHA SEE FIGURE 36-00-00-33 FOR NHA SEE FIGURE 36-15-00-20 FOR NHA SEE FIGURE 36-16-00-20 FOR NHA SEE FIGURE 36-16-00-21 FOR NHA SEE FIGURE 36-20-02-09		REF
1	LN9264-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9264-1,5X125		4
			ATTACHING PARTS		
10	MS21042-08		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		8
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		8
30	NAS1149CN618R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C8L (ALTERNATIVE USE P/N=AN980C8L)		8
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		8
			* * *		
50	145-52030-401		.TUBE ASSY IW P/N: 145-52030-403		1
50A	145-52030-403		.TUBE ASSY IW P/N: 145-52030-401		1
60	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
			ATTACHING PARTS		
- 62	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
70	KAOWOOL6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM (1000CM2)		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

-ITEM NOT ILLUSTRATED

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Fig. 01(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. I/W P/N: KB46/20 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
80A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 I/W P/N: 5413-19MM . LM: TAPE,POLYIMIDE,20MM		AR
90	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . I/W P/N: KB46/50 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
90A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 I/W P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,50MM		AR
100	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (190CM2) LM: AR		AR
110	PE43022-1		..LABEL (300MM)		AR
120	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
130	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
140	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2
150	145-52030-402		..TUBE ASSY I/W P/N: 145-52030-404		1
150A	145-52030-404		..TUBE ASSY I/W P/N: 145-52030-402		1
160	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770 ATTACHING PARTS		2

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

-ITEM NOT ILLUSTRATED

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Fig. 01(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 162	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
170	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM (1000CM2)		AR
180	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. IW P/N: KB48/20 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
180A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 . OPTIONAL P/N: KB48/20 IW P/N: 5413-19MM . LM: TAPE,POLYIMIDE,20MM		AR
190	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . IW P/N: KB48/50 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
190A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/50 . OPTIONAL P/N: KB48/50 IW P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,50MM		AR
200	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (190CM2) LM: AR		AR
210	PE43022-1		..LABEL (300MM)		AR
220	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
230	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
240	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
250	145-52029-401		.TUBE ASSY IW P/N: 145-52029-403		1
250A	145-52029-403		.TUBE ASSY IW P/N: 145-52029-401		1
280	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		3
- 262	E8304277		ATTACHING PARTS .WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
270	KA0W00L6-16MM		* * * ..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM (2680CM2)		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

-ITEM NOT ILLUSTRATED

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Fig. 01(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
280	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. IW P/N: KB46/20 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
280A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 IW P/N: 5413-19MM . LM: TAPE,POLYIMIDE,20MM		AR
290	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . IW P/N: KB46/50 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
290A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 IW P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,50MM		AR
300	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (285CM2) LM: AR		AR
310	PE43022-1		..LABEL (300MM)		AR
320	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
330	NR56120T		..NUT POSITIVELOK TITANIUM 2.0 SUPPLIER CODE: V29372		1
340	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2
350	145-52029-402		..TUBE ASSY IW P/N: 145-52029-404		1
350A	145-52029-404		..TUBE ASSY IW P/N: 145-52029-402		1
380	PE27021-5770		..CLAMP OPTIONAL P/N: FIF5770 ATTACHING PARTS		3

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 362	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
370	KA0W00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM (2680CM2)		AR
380	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. IW P/N: KB46/20 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
380A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 IW P/N: 5413-19MM . LM: TAPE,POLYIMIDE,20MM		AR
390	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . IW P/N: KB46/50 . LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
390A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 IW P/N: 5413-50MM .. LM: TAPE,POLYIMIDE,50MM		AR
400	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (285CM2) LM: AR		AR
410	PE43022-1		..LABEL (300MM)		AR
420	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
430	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
440	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

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Fig. 01(SUP)
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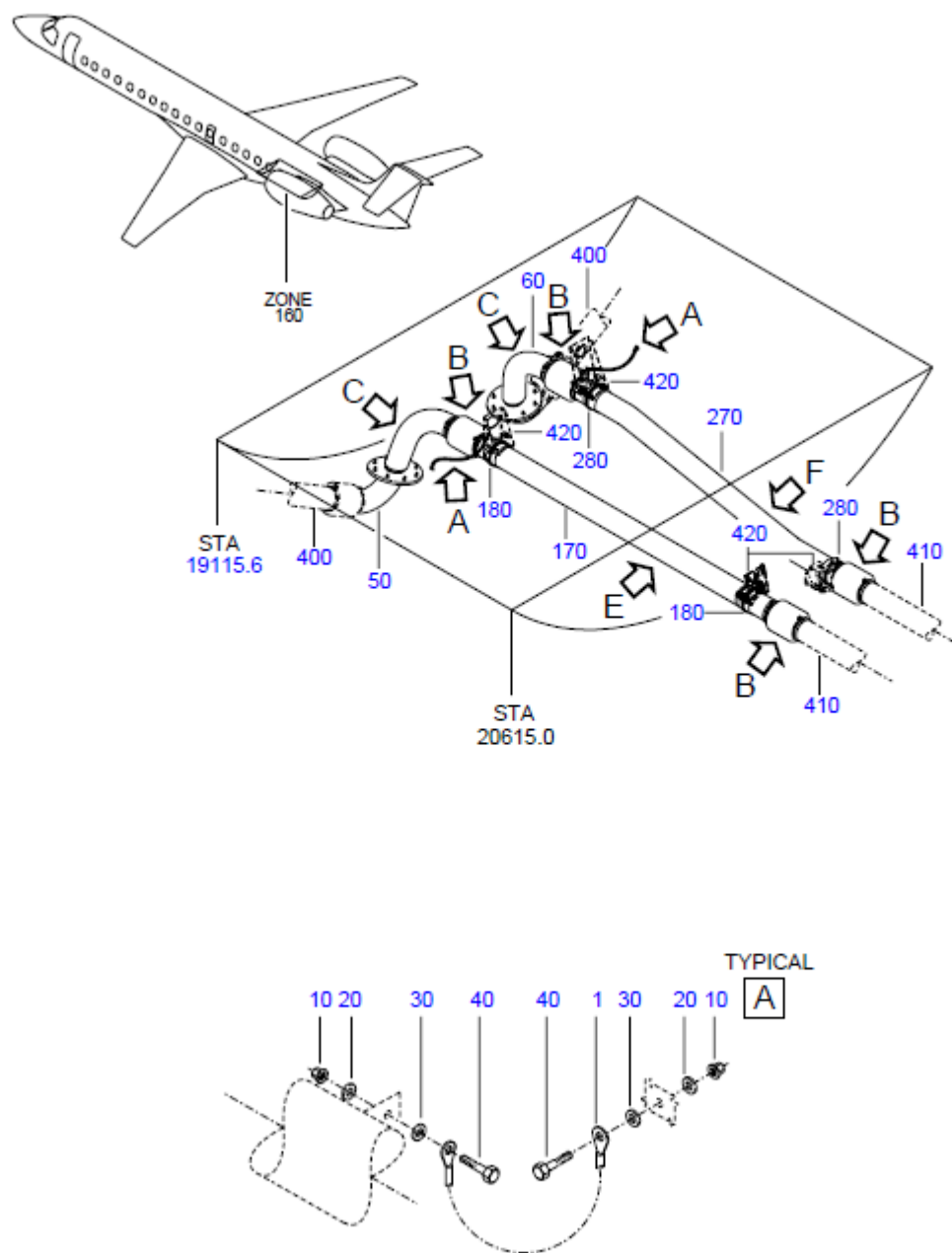
FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
450	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		4
455	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		2
- 456	140-05310-405		.BLANKET INSULATION ASSY (POST-MOD SB 145-38-0048/01)		2
- 456A	140-05346-401		.BLANKET INSULATION ASSY (POST-MOD SB 145-38-0049)		2
			ATTACHING PARTS		
460	PLT4SC78		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98906 ORDER TRUE P/N: PLT4S-C78 OPTIONAL P/N: PLT4S-M78 OPTIONAL P/N: TYZ28M IW P/N: 600-052		12
460A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C78		12
			* * *		
470	S2U2-226		.O'RING-2.0 PERFLUORCARBON SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 IW P/N: 403039-20		12
470A	403039-20		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-226		12
480			ENGINE BLEED AIR SYS INSTL BTW FR 40 AND FR 52 SEE FIGURE 36-15-00-20		REF
490			ENGINE BLEED AIR SYS INSTL BTW FR 56 AND FR 60 SEE FIGURE 36-16-00-20		REF
500			.....		REF
510	S30020SD		O-RING		12
520	T30020SD		SLEEVE		6

ENGINE BLEED AIR SYS INSTL, BTW FR 52 AND FR 56

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Fig. 01(SUP)
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FIGURE 20(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60
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Fig. 20(SUP)
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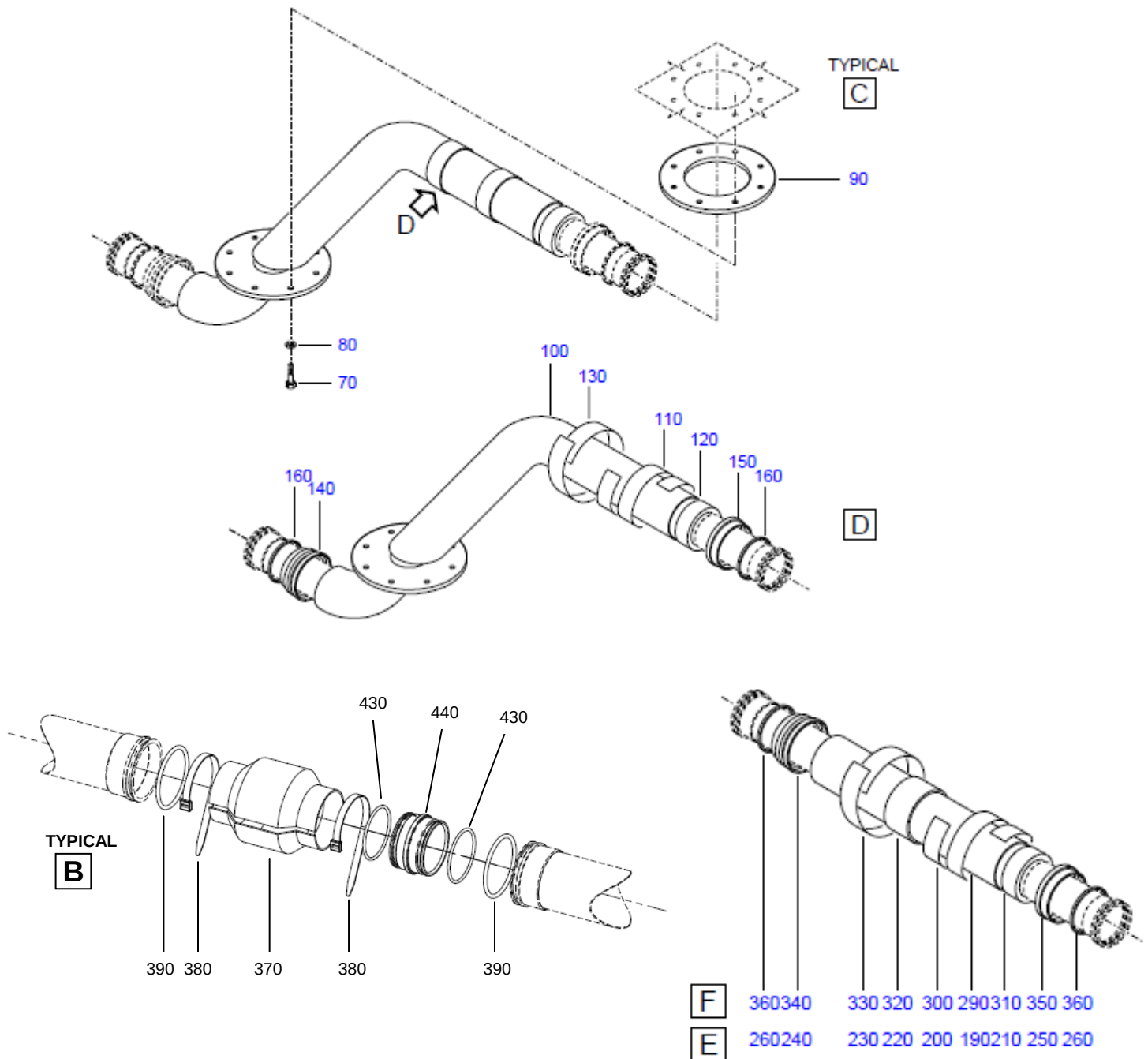


FIGURE 20(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60
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Fig. 20(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
20			ENGINE BLEED AIR SYS INSTL BTW FR 56 AND FR 60 FOR NHA SEE FIGURE 36-00-00-32 FOR NHA SEE FIGURE 36-16-00-01 FOR NHA SEE FIGURE 36-17-00-01 FOR NHA SEE FIGURE 36-20-02-09	590-897	REF
1	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		2
			ATTACHING PARTS		
10	MS21042-08		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		4
20	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		4
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C8L (ALTERNATIVE USE P/N=AN980C8L)		4
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		4
			* * *		
50	145-52028-401		.TUBE ASSY RPLD BY P/N: 145-52028-403 (N/P)		1
50A	145-52028-405		.TUBE ASSY		1
50B	145-52028-403		.TUBE ASSY RPLS P/N: 145-52028-401 (N/P) (QUALIFIED INTERCH) (THE P/N 145-52048-407 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-52048-403)		1
50C	145-52028-407		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-52048-403 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
60	145-52028-402		.TUBE ASSY RPLD BY P/N: 145-52028-404 (N/P)		1
60A	145-52028-406		.TUBE ASSY		1
60B	145-52028-404		.TUBE ASSY RPLS P/N: 145-52028-402 (N/P) (QUALIFIED INTERCH) (THE P/N 145-52028-408 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-52028-404)		1
60C	145-52028-408		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-52028-404 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
			ATTACHING PARTS		

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

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Fig. 20(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
70	NAS8203-4		.BOLT-HEXAGON HEAD STEEL SUPPLIER CODE: V80205		16
80	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C10L OPTIONAL P/N: NAS1149C0332R. (ALTERNATIVE USE P/N=NAS1149C0332R) * * *		16
90	145-21161-007		.PACKING		2
100	KAOWOOL-6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM (3200CM2)		AR
110	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
110A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
120	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
120A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
130	PE43022-1		..LABEL (2MM)		AR
140	CRA56320T		..COUPLER SUPPLIER CODE: V29372		2
150	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		2
160	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		4

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

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Fig. 20(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
170	145-49067-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49067-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49067-401)		1
170A	145-49067-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49067-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
180	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
			ATTACHING PARTS		
- 182	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
190	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM (2400CM2)		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

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Fig. 20(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
200	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
200A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
210	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
210A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
220	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 (195CM2) LM: AR		AR
- 220A	PE15018-1		..HYDRAULIC CARDBOARD 1.6MM SUPPLIER CODE: VASBRT		AR
230	PE43022-1		..LABEL (300MM)		AR
240	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
250	NR56120T		..NUT POSITIVELOK TITANIUM 2.0 SUPPLIER CODE: V29372		1
260	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2
270	145-49068-401		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49068-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49068-401)		1
270A	145-49068-403		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49068-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
280	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
- 282	E8304277		ATTACHING PARTS .WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
290	KAOW00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM (2800CM2)		AR
300	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB48/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
300A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 . OPTIONAL P/N: KB48/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
310	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB48/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
310A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/50 . OPTIONAL P/N: KB48/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
320	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.8 (185CM2) LM: AR		AR
- 320A	PE15018-1		..HYDRAULIC CARDBOARD 1.6MM SUPPLIER CODE: VASBRT		AR
330	PE43022-1		..LABEL (300MM)		AR

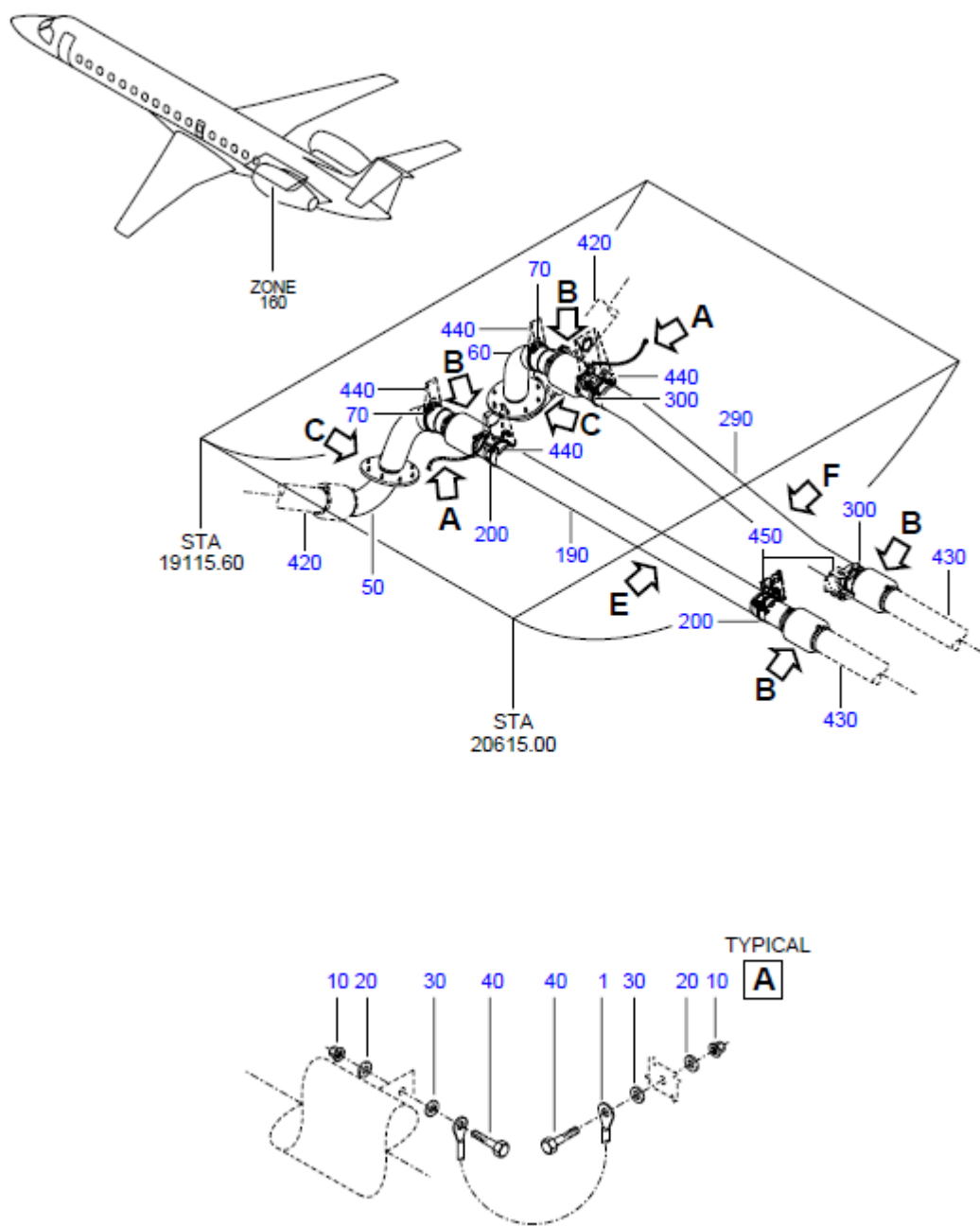
ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
340	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
350	NR56120T		..NUT POSITIVELOK TITANIUM 2.0 SUPPLIER CODE: V29372		1
360	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2
370	713463-11		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		4
			ATTACHING PARTS		
380	PLT4SC76		..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M I/W P/N: 600-052		8
380A	600-052		..BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: PLT4S-C76		8
			* * *		
390	S2U2-226		..O-RING-2.0 PERFLUORCARBON SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 I/W P/N: 403039-20		8
390A	403039-20		..O-RING SUPPLIER CODE: V08118 I/W P/N: S2U2-226		8
400			ENGINE BLEED AIR SYS INSTL BTW FR 52 AND FR 56 SEE FIGURE 36-16-00-01		REF
410			ENGINE BLEED AIR SYS INSTL BTW FR 60 AND FR 70 SEE FIGURE 36-17-00-01		REF
420			SUPPORTS INSTL ENGINE BLEED, BTW FR 56 AND FR 60 SEE FIGURE 36-00-00-32		REF
430	S30020SD		O-RING		8
440	T30020SD		SLEEVE		4

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

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FIGURE 21(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60
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Fig. 21(SUP)
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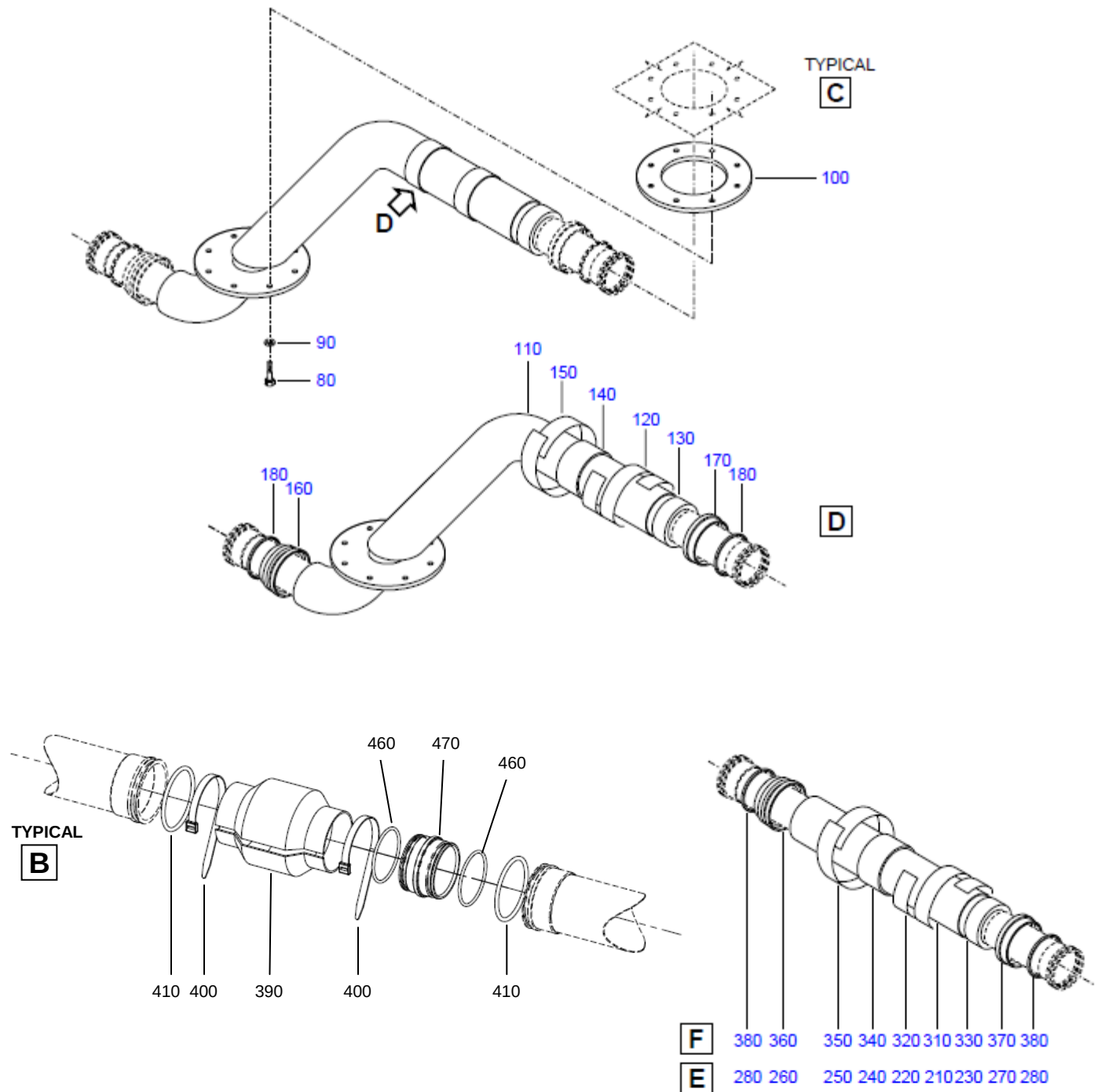


FIGURE 21(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
21			ENGINE BLEED AIR SYS INSTL BTW FR 56 AND FR 60 FOR NHA SEE FIGURE 36-00-00-33 FOR NHA SEE FIGURE 36-17-00-02 FOR NHA SEE FIGURE 36-20-02-09	700-99999	REF
1	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		2
10	MS21042-08		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		4
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		4
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN860C6L		4
40	NAS1096-1-6		.SCREW SUPPLIER CODE: V80205		4
			* * *		
50	145-52028-403		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-52028-407 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-52028-403)	700-934	1
50A	145-52028-407		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-52028-403 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
60	145-52028-404		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-52028-408 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-52028-404)	700-934	1
60A	145-52028-408		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-52028-404 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
			ATTACHING PARTS		
70	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
- 72	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
80	NAS8203-4		.BOLT-HEXAGON HEAD STEEL SUPPLIER CODE: V80205		16

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

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Fig. 21(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C10L OPTIONAL P/N: NAS1149C0332R. * * *		16
100	145-21161-007		.PACKING		2
110	KAOWOOL6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
120	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
120A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
130	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
130A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
140	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
150	PE43022-1		..LABEL		AR
160	CRA56320T		..COUPLER SUPPLIER CODE: V29372		2
170	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372 (QUALIFIED INTERCH) (THE P/N 145-52028-404 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		2

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
180	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		4
190	145-49067-401		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49067-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49067-401)	700-934	1
190A	145-49067-403		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49067-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
200	PE27021-5770		ATTACHING PARTS ..CLAMP OPTIONAL P/N: FIF5770		2
- 202	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
210	KAOWOOL-8-16MM		* * * ..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

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Fig. 21(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
220	E8303778		.. TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
220A	E7363814		.. TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
230	E7184393		.. TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
230A	E7363842		.. TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
240	NA1000-1-6		.. SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
- 240A	PE15018-1		.. HYDRAULIC CARDBOARD 1.6MM SUPPLIER CODE: VASBRT		AR
250	PE43022-1		.. LABEL		AR
260	CRA56320T		.. COUPLER SUPPLIER CODE: V29372		1
270	NR56120T		.. NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
280	RA30120T		.. RING RETAINING SUPPLIER CODE: V29372		2
290	145-49068-401		.. TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49068-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49068-401)	700-934	1
290A	145-49068-403		.. TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49068-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE) ATTACHING PARTS		1

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
300	PE27021-5770		.CLAMP		2
- 302	E8304277		OPTIONAL P/N: FIF5770 ..WIRE LOCK-SSTEEL		AR
			SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		
			* * *		
310	KAOW00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6		AR
			SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		
320	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
			SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM ..		
			(N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
320A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		
330	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE	700-934	AR
			SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .		
			(N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
330A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		
340	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA		AR
			SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		
- 340A	PE15018-1		..HYDRAULIC CARDBOARD 1.6MM		AR
			SUPPLIER CODE: VASBRT		
350	PE43022-1		..LABEL		AR
360	CRA56320T		..COUPLER		1
			SUPPLIER CODE: V29372		
370	NR56120T		..NUT POSITIVELOK TITANIUM 2,0		1
			SUPPLIER CODE: V29372		

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
380	RA30120T		.RING RETAINING SUPPLIER CODE: V29372		2
390	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		4
			ATTACHING PARTS		
400	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96908 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M I/W P/N: 600-052		8
400A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: PLT4S-C76		8
			* * *		
410	S2U2-226		.O-RING-2.0 PERFLUORCARBON SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 I/W P/N: 403039-20		8
410A	403039-20		.O-RING SUPPLIER CODE: V08118 I/W P/N: S2U2-226		8
420			ENGINE BLEED AIR SYS INSTL BTW FR 52 AND FR 56 SEE FIGURE 36-16-00-01		REF
430			.....		REF
440			SUPPORTS INSTL ENGINE BLEED, BTW FR 56 AND FR 60 SEE FIGURE 36-00-00-33		REF
450			.....		REF
460	S30020SD		O-RING		8
470	T30020SD		SLEEVE		4

ENGINE BLEED AIR SYS INSTL, BTW FR 56 AND FR 60

-ITEM NOT ILLUSTRATED

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Fig. 21(SUP)
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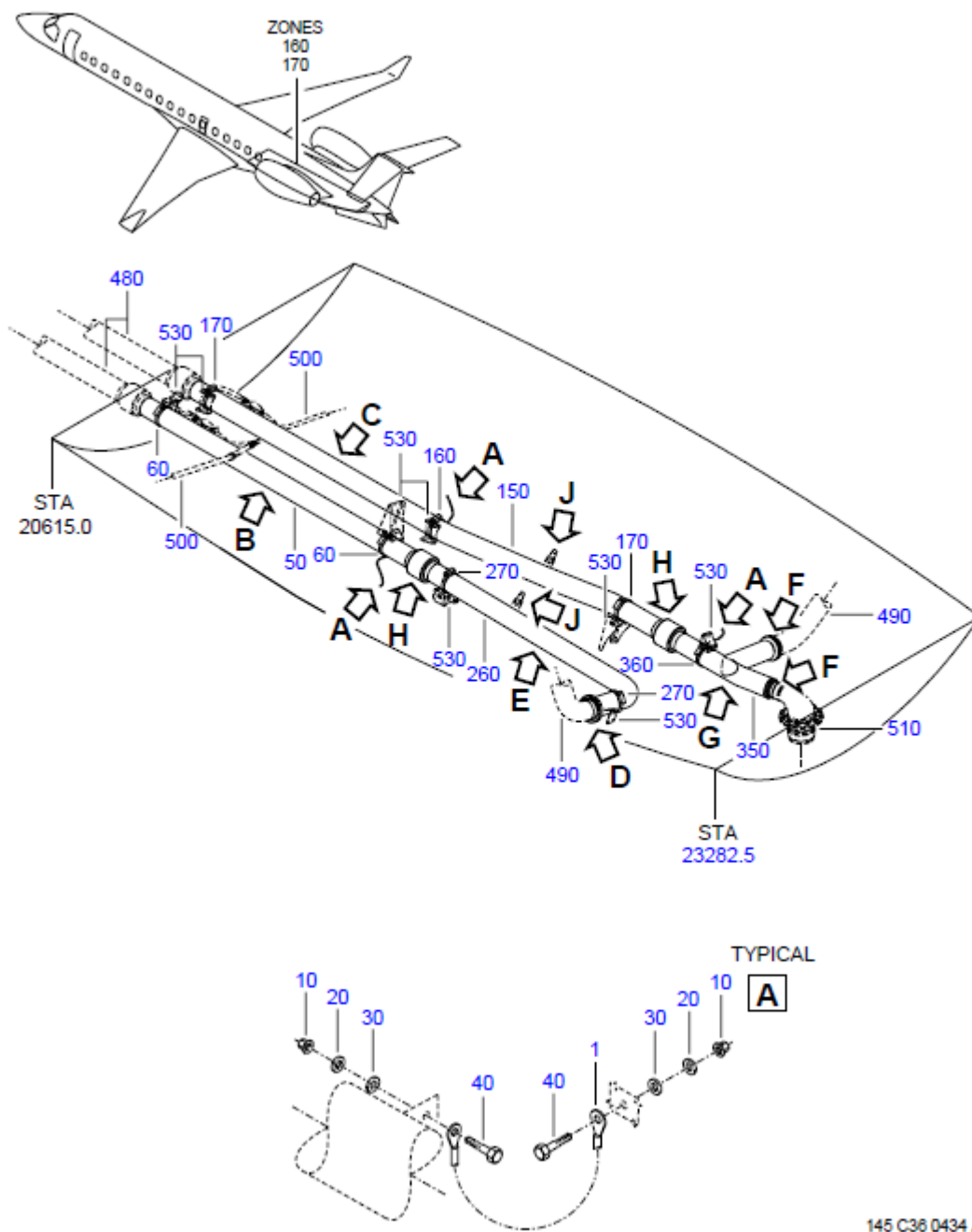


FIGURE 01(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70
Sheet 1 of 2

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Fig. 01(SUP)
Page 0
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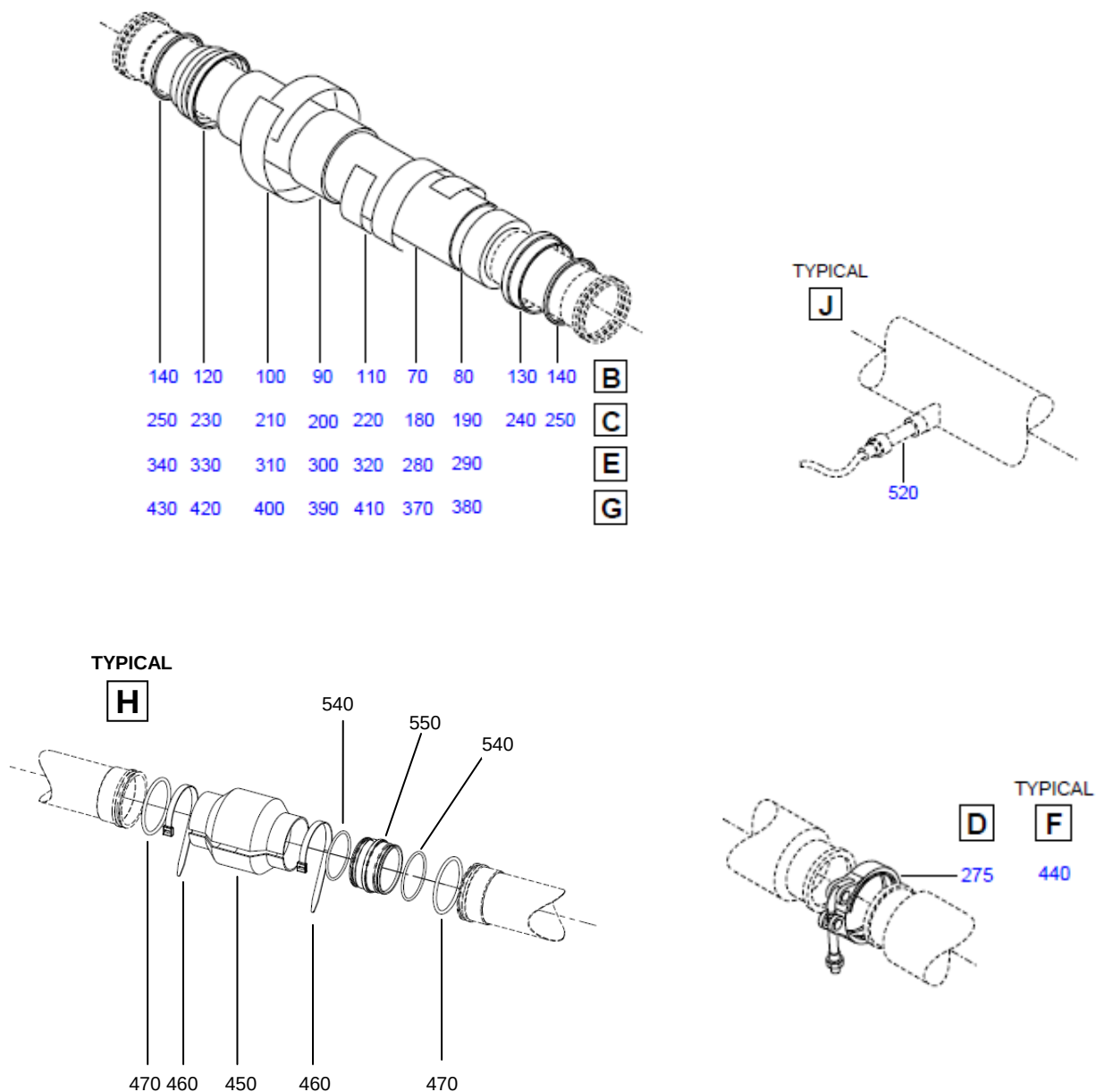


FIGURE 01(SUP) - ENGINE BLEED AIR SYS INSTL, BTW 60 AND FR 70
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Fig. 01(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
01			ENGINE BLEED AIR SYS INSTL BTW FR 60 AND FR 70 FOR NHA SEE FIGURE 36-00-00-42 FOR NHA SEE FIGURE 36-11-06-02 FOR NHA SEE FIGURE 36-16-00-20 FOR NHA SEE FIGURE 36-17-00-20 FOR NHA SEE FIGURE 36-17-00-31 FOR NHA SEE FIGURE 36-20-01-01 FOR NHA SEE FIGURE 36-20-01-01B	590-697	REF
1	LN9264-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9264-1,5X125		3
10	MS21042-08		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		6
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		6
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C6L		6
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		6
			* * *		
50	145-49089-405		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49089-411 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49089-405)		REF
50A	145-49089-411		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49089-405 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
			ATTACHING PARTS		
60	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
- 61	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
70	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
80A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 .. OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
90	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
100	PE43022-1		..LABEL		AR
110	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM .. OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
110A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 .. OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
120	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
130	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
140	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2
150	145-49070-405		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49070-411 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49070-405)		REF
150A	145-49070-411		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49070-405 SHOULD NOT BE USED AS A REPLACEMENT SPARE) ATTACHING PARTS		1

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
160	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
170	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
- 172	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
180	KAOW00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
190	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
190A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
200	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
210	PE43022-1		..LABEL		AR
220	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
220A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
230	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
240	NR56120T		.NUT POSITIVELOK TITANIUM 2,0		1
			SUPPLIER CODE: V29372		
250	RA30120T		.RING RETAINING		2
			SUPPLIER CODE: V29372		
260	145-49071-401		.TUBE ASSY		REF
			(N/P) (QUALIFIED INTERCH) (THE P/N 145-49071-405 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49071-401)		
260A	145-49071-405		.TUBE ASSY		1
			(QUALIFIED INTERCH) (THE P/N 145-49071-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		
			ATTACHING PARTS		
270	NAS1922-0275-1H		.CLAMP ADJUSTABLE		2
			SUPPLIER CODE: V80205		
			OPTIONAL P/N: NH103275-0275		
- 272	E8304277		.WIRE LOCK-SSTEEL		AR
			SUPPLIER CODE: V98908		
			ORDER OVERLENGTH P/N: MS20995C20 ...		
			OPTIONAL P/N: MS20995C20		
			OPTIONAL P/N: MS20995C20		
275	NM102420-0200		. V-CLAMP		1
			SUPPLIER CODE: V00624		
			* * *		
- 276	140-05310-407		.BLANKET INSULATION ASSY		1
			(POST-MOD SB 145-38-0048/01)(POST-MOD SB 145-38-0049)		
280	KA0W00L6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6		AR
			SUPPLIER CODE: VBABCO		
			ORDER TRUE P/N: KAOWOOL-6-16MM		
290	E7184383		.TAPE POLYIMIDE,50MM-SILICON ADHESIVE		REF
			SUPPLIER CODE: V000KK		
			ORDER OVERLENGTH P/N: 5413-50MM ..		
			OPTIONAL P/N: 5413-50MM		
			OPTIONAL P/N: 5413-50MM .		
			(N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM)		
			LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		
290A	E7383842		.TAPE POLYIMIDE,50MM-REINFORCED,SILI		AR
			ORDER OVERLENGTH P/N: KB46/50 .		
			OPTIONAL P/N: KB46/50		
			(QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE)		
			LM: TAPE,POLYIMIDE,50MM		
300	NA1000-1-6		.SHEET HYDRAULIC CARDBOARD,1.6MM-ARA		AR
			SUPPLIER CODE: VASBRT		
			ORDER TRUE P/N: NA-1000-1.6		
			LM: AR		
310	PE43022-1		.LABEL		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
320	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
320A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
330	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
340	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
350	145-49072-401		..TUBE ASSY (N/P) (FOR REPLACEMENT USE PN 145-49072-405)		REF
350A	145-49072-405		..TUBE ASSY RPLD BY P/N: 145-49072-407	560-897	1
350B	145-49072-407		..TUBE ASSY RPLS P/N: 145-49072-405 IW P/N: 145-04741-411		1
350C	145-04741-411		..TUBE ASSY IW P/N: 145-49072-407 (QUALIFIED INTERCH) (THE PN 145-04741-405 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
380	NAS1922-0275-1H		ATTACHING PARTS ..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
- 362	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
370	KAOWOOL6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
380	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
380A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
390	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
400	PE43022-1		..LABEL		AR
410	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
410A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
420	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
430	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
440	NM102420-0200		ATTACHING PARTS .. V-CLAMP SUPPLIER CODE: V00624 * * *		2
450	713463-11		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S ATTACHING PARTS		2

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
480	PLT4SC78		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98908 ORDER TRUE P/N: PLT4S-C78 OPTIONAL P/N: PLT4S-M78 OPTIONAL P/N: TYZ28M IW P/N: 600-052		4
480A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C78 * * *		4
470	S2U2-226		.O'RING-2.0 PERFLUORCARBON SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 IW P/N: 403039-20		4
470A	403039-20		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-226		4
480			ENGINE BLEED AIR SYS INSTL BTW FR 56 AND FR 60 SEE FIGURE 36-16-00-20		REF
490			ENGINE BLEED AIR SYS INSTL FR 60 SEE FIGURE 36-17-00-20		REF
500			ENGINE BLEED AIR SYS INSTL BTW FR 62 AND FR 65 SEE FIGURE 36-17-00-31		REF
510			GROUND COUPLING INSTL ENGINE STARTING SEE FIGURE 36-10-02-01		REF
520			SENSOR INSTL TEMPERATURE SEE FIGURE 36-20-01-01		REF
530			.....		REF
540	S30020SD		O-RING		4
550	T30020SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

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Fig. 01(SUP)
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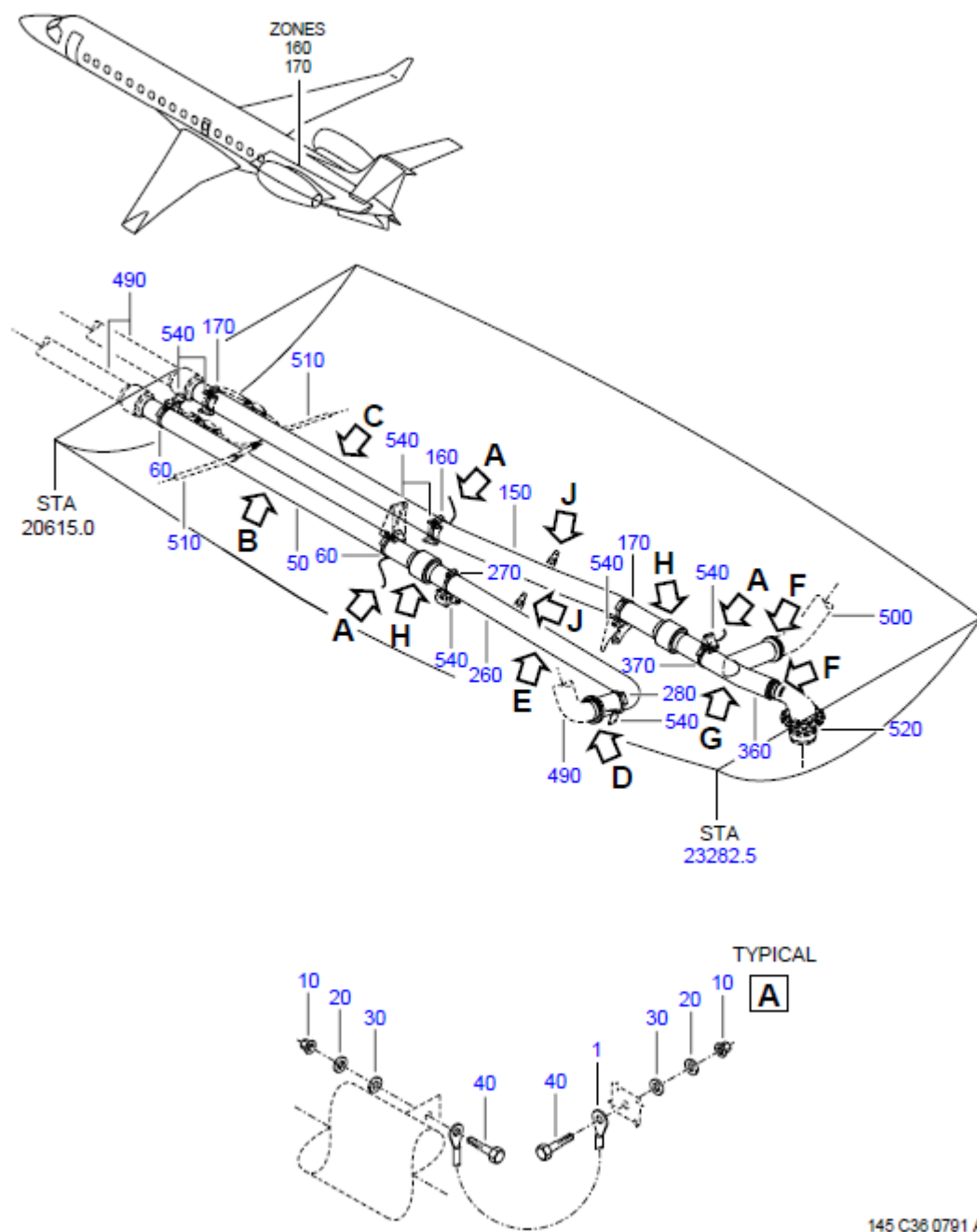


FIGURE 02(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70
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Fig. 02(SUP)
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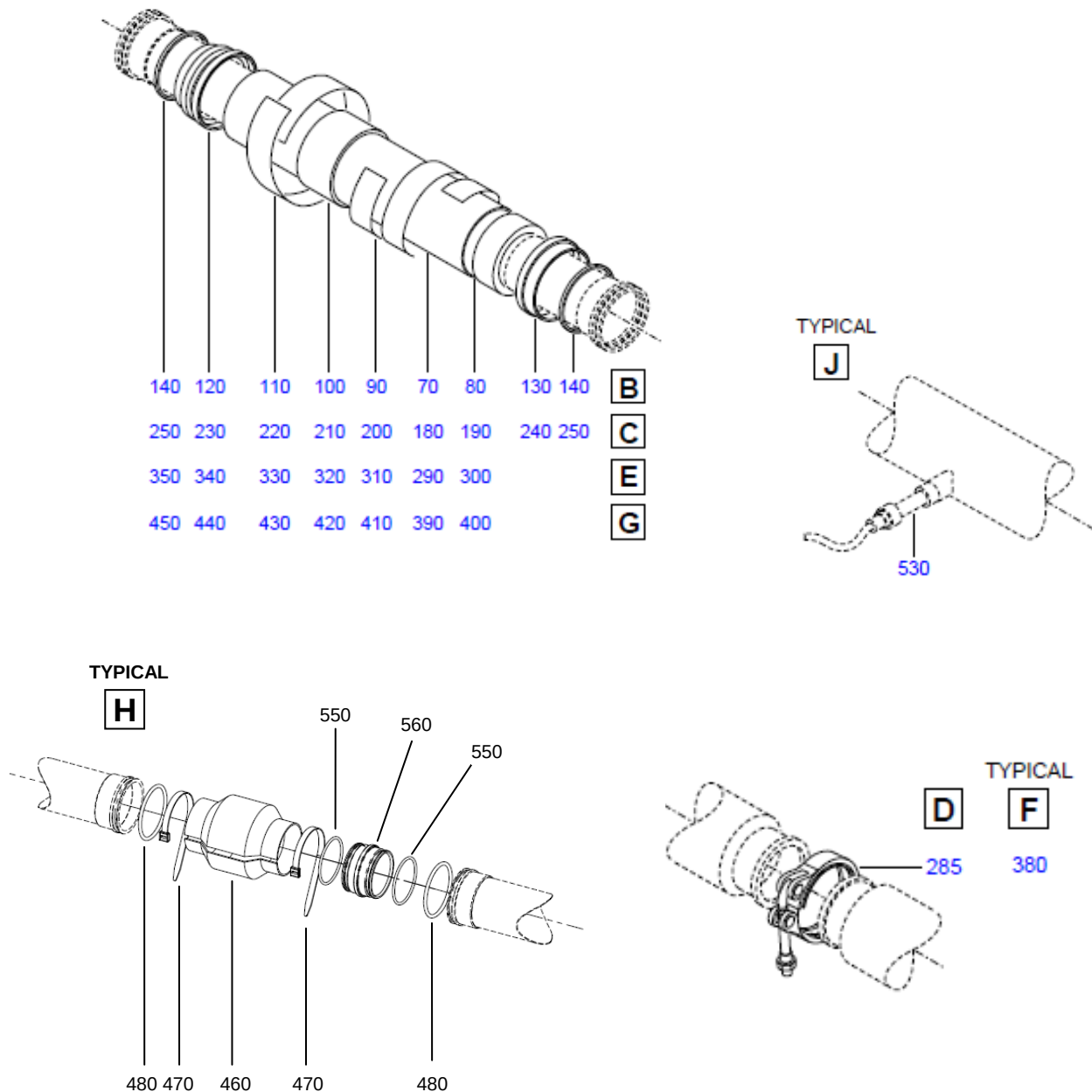


FIGURE 02(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70
Sheet 2 of 2

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
02			ENGINE BLEED AIR SYS INSTL BTW FR 60 AND FR 70 FOR NHA SEE FIGURE 36-11-06-02 FOR NHA SEE FIGURE 36-17-00-21 FOR NHA SEE FIGURE 36-17-00-31 FOR NHA SEE FIGURE 36-20-01-01 FOR NHA SEE FIGURE 36-20-01-01A FOR NHA SEE FIGURE 36-20-01-01B	700-99999	REF
1	LN9264-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9264-1,5X125		3
10	MS21042-08		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		8
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		8
30	NAS1149CN616R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C8L		8
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		8
			* * *		
50	145-49089-405		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49089-411 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49089-405)	700-934	REF
50A	145-49089-411		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49089-405 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
			ATTACHING PARTS		
60	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
- 61	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
70	KA0W00L8-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KA0W00L-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

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Fig. 02(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	REF
80A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 .. OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
90	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM .. OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	REF
90A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 .. OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
100	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.8 LM: AR		AR
110	PE43022-1		..LABEL		AR
120	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
130	NR56120T		..NUT POSITIVELOK TITANIUM 2.0 SUPPLIER CODE: V29372		1
140	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2
150	145-49070-405		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49070-411 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49070-405)	700-934	REF
150A	145-49070-411		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49070-405 SHOULD NOT BE USED AS A REPLACEMENT SPARE) ATTACHING PARTS		1

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
160	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
170	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		2
- 172	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V96906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
180	KAOW00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
190	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	REF
190A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
200	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	REF
200A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
210	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
220	PE43022-1		..LABEL		AR
230	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
240	NR56120T		.NUT POSITIVELOK TITANIUM 2.0		1
250	RA30120T		.RING RETAINING		2
280	145-49071-403		.TUBE ASSY	700-934	REF
			(N/P) (QUALIFIED INTERCH) (THE P/N 145-49071-407 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49071-403)		
280A	145-49071-407		.TUBE ASSY		1
			(QUALIFIED INTERCH) (THE P/N 145-49071-403 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		
			ATTACHING PARTS		
270	NAS1922-0275-1H		.CLAMP ADJUSTABLE		1
			SUPPLIER CODE: V80205		
			OPTIONAL P/N: NH103275-0275		
280	320C62-270M		.CLAMP T-BOLT, CRES		1
			SUPPLIER CODE: V00624		
- 282	E8304277		.WIRE LOCK-SSTEEL		AR
			SUPPLIER CODE: V96906		
			ORDER OVERLENGTH P/N: MS20995C20 ...		
			OPTIONAL P/N: MS20995C20		
			OPTIONAL P/N: MS20995C20		
285	NM102420-0200		. V-CLAMP		1
			SUPPLIER CODE: V00624		
			* * *		
- 286	140-05310-407		.BLANKET INSULATION ASSY		1
			(POST-MOD SB 145-36-0049/01)(POST-MOD SB 145-36-0049)		
290	KA0W00L8-16MM		.INSULATING BLANKET TYPE 1, GRADE 6		AR
			SUPPLIER CODE: VBABCO		
			ORDER TRUE P/N: KAOWOOL-8-16MM		

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

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Fig. 02(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
300	E7184393		.. TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	REF
300A	E7363842		.. TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
310	E8303778		.. TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	REF
310A	E7363814		.. TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
320	NA1000-1-6		.. SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
330	PE43022-1		.. LABEL		AR
340	CRA56320T		.. COUPLER SUPPLIER CODE: V29372		1
350	RA30120T		.. RING RETAINING SUPPLIER CODE: V29372		1
360	145-49072-403		.. TUBE ASSY (N/P) (FOR REPLACEMENT USE PN 145-49072-407)	700-834	REF
360A	145-04741-405		.. TUBE REINFORCED ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-04741-411 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-04741-405)	840-934	REF
360B	145-49072-407		.. TUBE ASSY IW P/N: 145-04741-411		1
360C	145-04741-411		.. TUBE ASSY IW P/N: 145-49072-407 (QUALIFIED INTERCH) (THE P/N 145-04741-405 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
370	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		1
- 372	E8304277		ATTACHING PARTS .WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
380	NM102420-0200		. V-CLAMP SUPPLIER CODE: V00624 * * *		2
390	KA0W00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
400	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB48/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	REF
400A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/50 . OPTIONAL P/N: KB48/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
410	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB48/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	REF
410A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 . OPTIONAL P/N: KB48/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
420	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
430	PE43022-1		..LABEL		AR
440	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
450	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
480	713483-11		.COVER SUPPLIER CODE: V70828 OPTIONAL P/N: 4001-S		2
			ATTACHING PARTS		
470	PLT4SC78		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98908 ORDER TRUE P/N: PLT4S-C78 OPTIONAL P/N: PLT4S-M78 OPTIONAL P/N: TYZ28M IW P/N: 600-052		4
470A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C78		4
			* * *		
480	S2U2-228		.O'RING-2.0 PERFLUORCARBON SUPPLIER CODE: V29372 OPTIONAL P/N: AS588-228 OPTIONAL P/N: AS588-228 Z7257 OPTIONAL P/N: S2U2228 OPTIONAL P/N: S2U228 OPTIONAL P/N: S2U3-228 OPTIONAL P/N: V8545A7257-228 OPTIONAL P/N: 2-228 IW P/N: 403039-20		4
480A	403039-20		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-228		4
490			ENGINE BLEED AIR SYS INSTL BTW FR 58 AND FR 60 SEE FIGURE 36-16-00-21		REF
500			ENGINE BLEED AIR SYS INSTL FR 60 SEE FIGURE 36-17-00-21		REF
510			ENGINE BLEED AIR SYS INSTL BTW FR 62 AND FR 65 SEE FIGURE 36-17-00-31		REF
520			GROUND COUPLING INSTL ENGINE STARTING SEE FIGURE 36-10-02-01		REF
530			SENSOR INSTL TEMPERATURE SEE FIGURE 36-20-01-01 SEE FIGURE 36-20-01-01A		REF
540			.....		REF
550	S30020SD		O-RING		4
560	T30020SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 60 AND FR 70

-ITEM NOT ILLUSTRATED

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Fig. 02(SUP)
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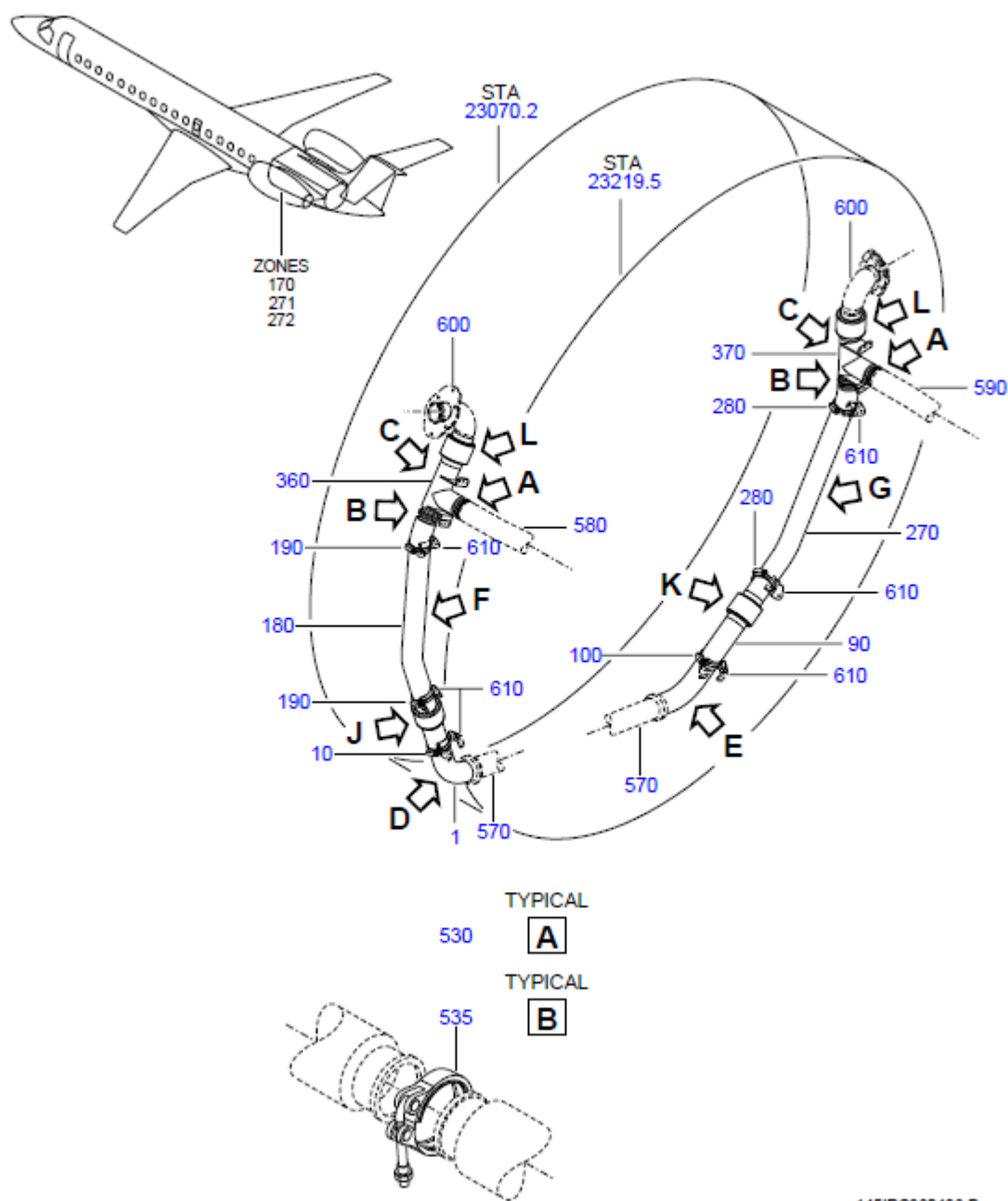


FIGURE 20(SUP) - ENGINE BLEED AIR SYS INSTL, FR 69
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Fig. 20(SUP)
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Seal Dynamics

EMB145 ILLUSTRATED PARTS CATALOG

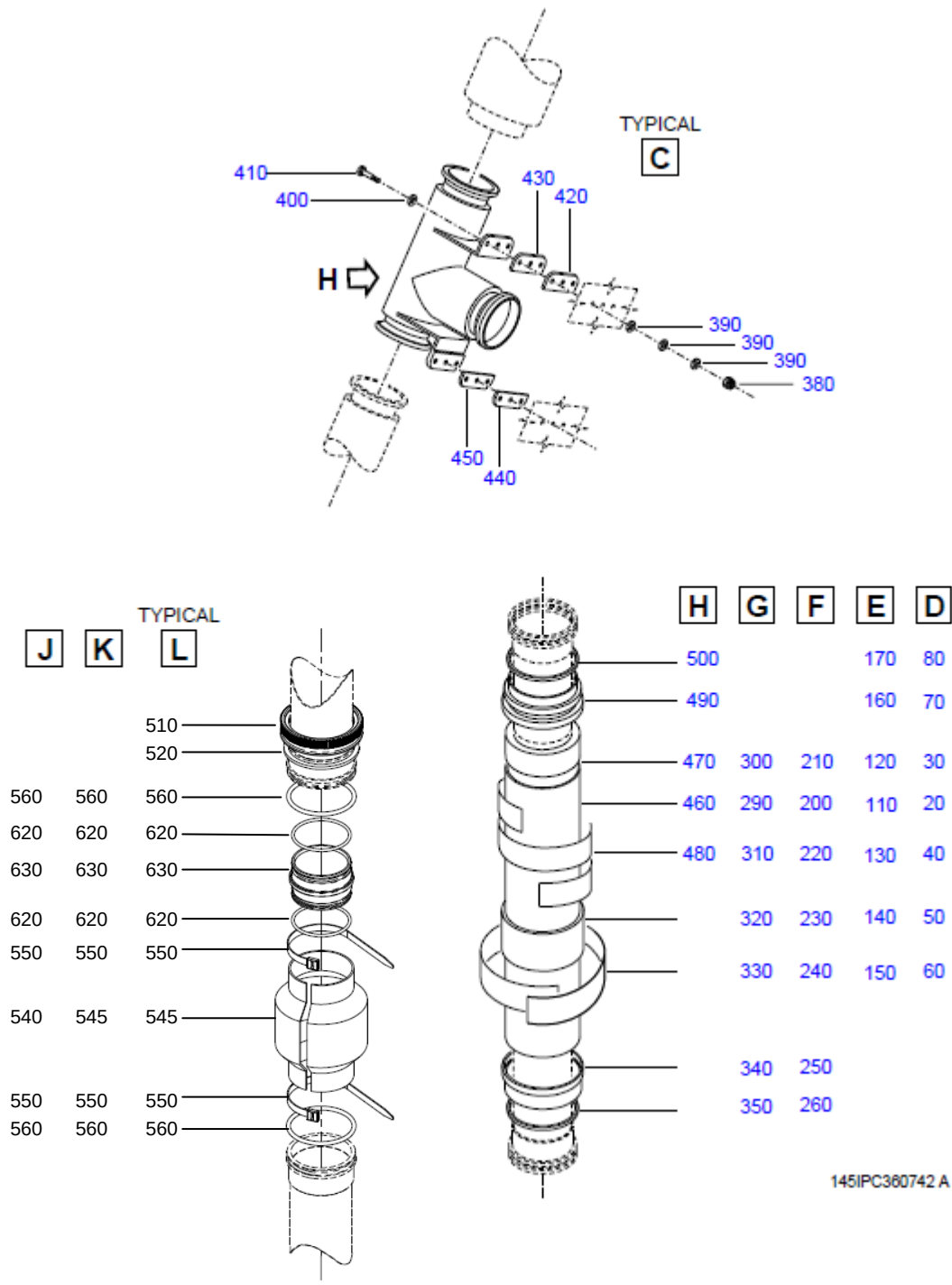


FIGURE 20(SUP) - ENGINE BLEED AIR SYS INSTL, FR 69
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Fig. 20(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
20			ENGINE BLEED AIR SYS INSTL FR 69 FOR NHA SEE FIGURE 36-13-00-01 FOR NHA SEE FIGURE 36-13-00-30 FOR NHA SEE FIGURE 36-13-00-31 FOR NHA SEE FIGURE 36-17-00-01 FOR NHA SEE FIGURE 36-17-00-40 FOR NHA SEE FIGURE 36-17-00-50	590-897	REF
1	145-49073-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49073-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49073-401)		1
1A	145-49073-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49073-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
10	NAS1922-0275-1H		ATTACHING PARTS .CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
- 12	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
20	KAOW00L6-16MM		* * * .INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, FR 69

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
30	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
30A	E7383942		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
40	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
40A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
50	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
60	PE43022-1		..LABEL		AR
70	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
80	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
90	145-49074-401		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49074-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49074-401)		1
90A	145-49074-403		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49074-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
100	NAS1922-0275-1H		ATTACHING PARTS ..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1

ENGINE BLEED AIR SYS INSTL, FR 69

-ITEM NOT ILLUSTRATED

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Fig. 20(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 102	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
110	KADW00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
120	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
120A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
130	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
130A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
140	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
150	PE43022-1		..LABEL		AR
160	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
170	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
180	145-49075-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49075-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49075-401)		1

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
180A	145-49075-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49075-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
190	NAS1922-0275-1H		ATTACHING PARTS .CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		2
- 192	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
200	KAOWOOL8-16MM		.INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
210	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB48/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
210A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/50 .. OPTIONAL P/N: KB48/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
220	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM .. OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB48/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
220A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 .. OPTIONAL P/N: KB48/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
230	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
240	PE43022-1		..LABEL		AR
250	NR58120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
260	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
270	145-49076-401		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49076-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49076-401)		1
270A	145-49076-403		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49076-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
280	NAS1922-0275-1H		ATTACHING PARTS ..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		2

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-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 282	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
290	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
300	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB48/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
300A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/50 . OPTIONAL P/N: KB48/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
310	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB48/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
310A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB48/20 . OPTIONAL P/N: KB48/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
320	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
330	PE43022-1		..LABEL		AR
340	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
350	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
360	145-52089-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-52089-405 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-52089-401)		1

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
360A	145-52089-405		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-52089-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
370	145-52089-403		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-52089-407 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-52089-403)		1
370A	145-52089-407		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 135-52089-407 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
ATTACHING PARTS					
- 372	MS24665-71		.PIN COTTER-SPLIT,STEEL SUPPLIER CODE: V96908		12
380	MS14145L3		.NUT HEXAGON SUPPLIER CODE: V96908 OPTIONAL P/N: MS14145-L3 OPTIONAL P/N: THCR-353M		12
390	NAS1149F0363P		.WASHER FLAT-STEEL SUPPLIER CODE: V80205 OPTIONAL P/N: AN860-10 OPTIONAL P/N: NAS1149F0363P		36
400	NAS1149F0332P		.WASHER-FLAT STEEL SUPPLIER CODE: V80205 OPTIONAL P/N: AN860-10L OPTIONAL P/N: NAS1149FN0332P OPTIONAL P/N: NAS1149F0332PDUPL		12
410	NAS8203-12D		.BOLT-HEXAGON HEAD STEEL SUPPLIER CODE: V80205 * * *		12
420	145-48790-001		.SHIM UPPER		2
430	145-49098-001		.PACKING		2
440	145-48791-001		.SHIM DOWN		2
450	145-49098-003		.PACKING		2
460	KAOWOOL6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
470	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
- 470A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 .. OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
480	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM .. OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
- 480A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 .. OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
490	CRA56320T		..COUPLER SUPPLIER CODE: V29372		2
500	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2
510	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		2
520	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		2
530	NM102420-0200		..V-CLAMP SUPPLIER CODE: V00624		2
535	NM102420-0200		..V-CLAMP SUPPLIER CODE: V00624 (ALTERNATIVE USE P/N=24540-200)		2
- 536	140-05310-407		..BLANKET INSULATION ASSY (POST-MOD SB 145-380048/01)(POST-MOD SB 145-38-0049)		2
540	713463-11		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S ATTACHING PARTS		1

ENGINE BLEED AIR SYS INSTL, FR 69

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
550	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96908 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M I/W P/N: 600-052		8
550A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: PLT4S-C76 * * *		8
560	S2U2-226		.O-RING-2.0 PERFLUORCARBON SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 I/W P/N: 403039-20		8
560A	403039-20		.O-RING SUPPLIER CODE: V08118 I/W P/N: S2U2-226		4
565	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		3
- 566	140-05310-405		.BLANKET INSULATION ASSY (POST-MOD SB 145-38-0048/01)(POST-MOD SB 145-38-0049)		3
570			ENGINE BLEED AIR SYS INSTL BTW FR 60 AND FR 70 SEE FIGURE 36-17-00-01		REF
580			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, LH SIDE SEE FIGURE 36-17-00-40		REF
590			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, RH SIDE SEE FIGURE 36-17-00-50		REF
600			ENGINE BLEED AIR SYS INSTL LH/RH PYLON SEE FIGURE 36-13-00-01		REF
610			SUPPORTS INSTL ENGINE BLEED, FR 69 SEE FIGURE 36-00-00-58		REF
620	S30020SD		O-RING		8
630	T30020SD		SLEEVE		4

ENGINE BLEED AIR SYS INSTL, FR 69

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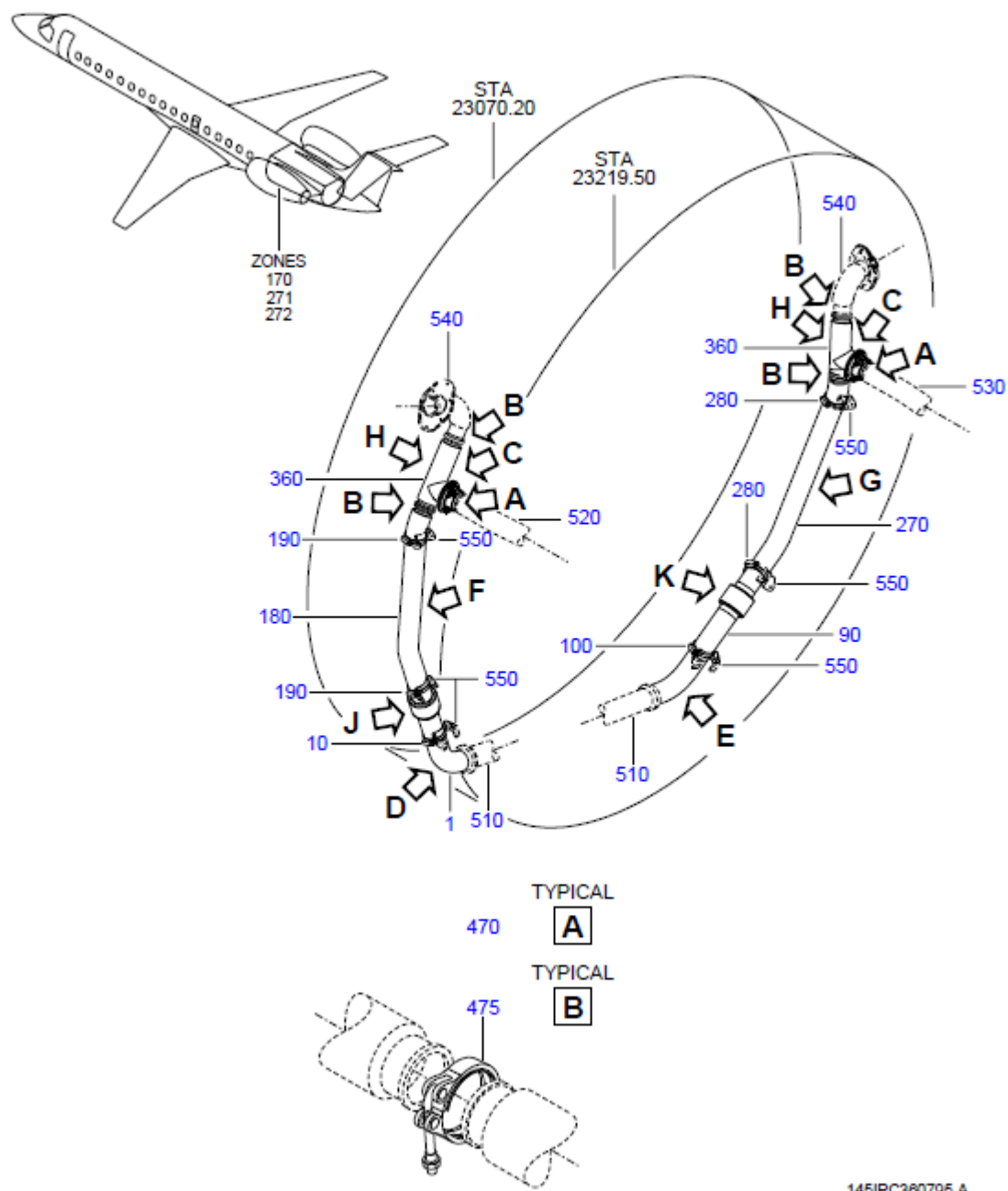


FIGURE 21(SUP) - ENGINE BLEED AIR SYS INSTL, FR 69
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Fig. 21(SUP)
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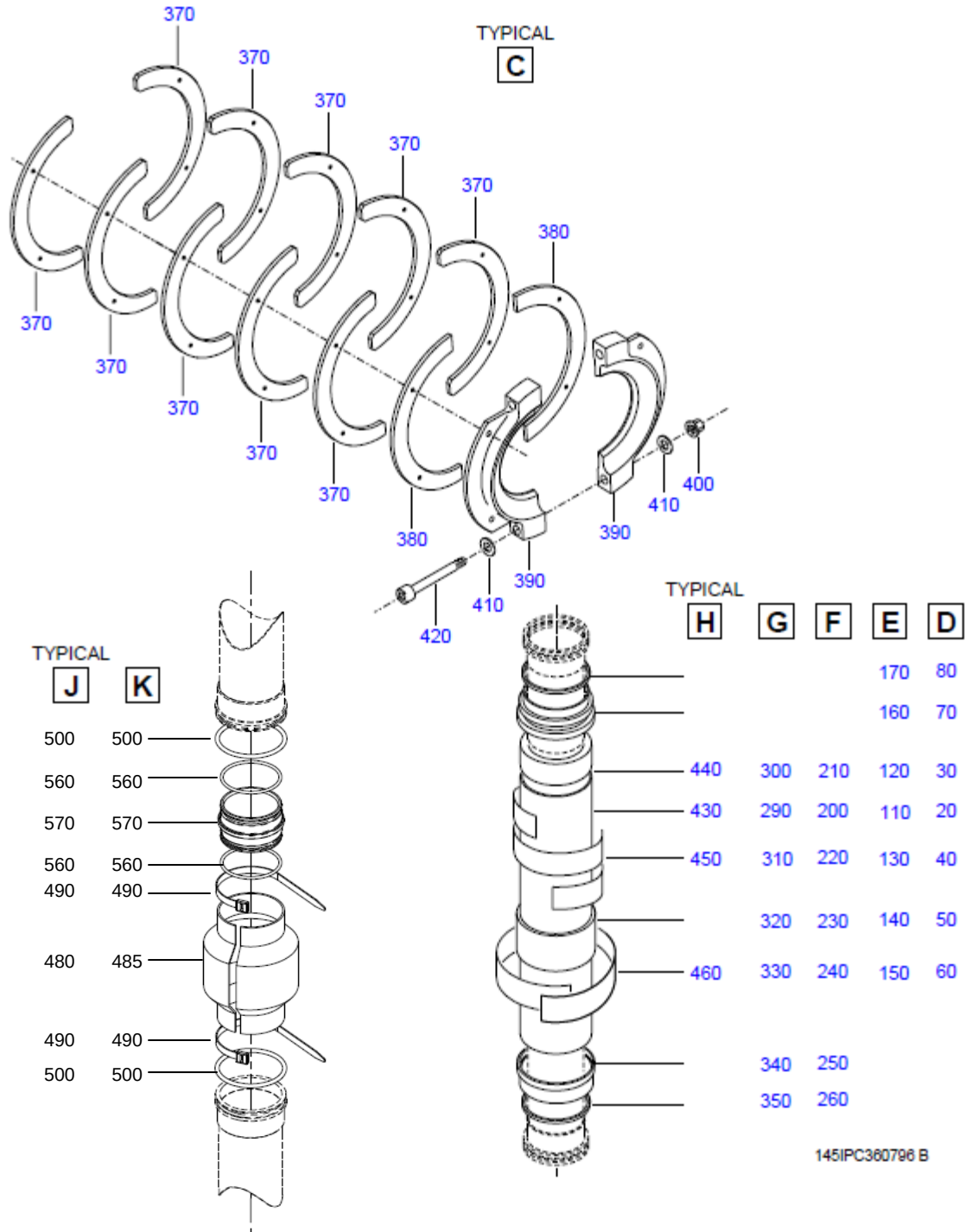


FIGURE 21(SUP) - ENGINE BLEED AIR SYS INSTL, FR 69
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
21			ENGINE BLEED AIR SYS INSTL FR 69 FOR NHA SEE FIGURE 36-17-00-02 FOR NHA SEE FIGURE 36-17-00-51	700-99999	REF
1	145-49073-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49073-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49073-401)	700-934	1
1A	145-49073-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49073-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
10	NAS1922-0275-1H		ATTACHING PARTS .CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
- 12	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
20	KAOW00L6-16MM		* * * .INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

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Fig. 21(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
30	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
30A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 .. OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
40	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM .. OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
40A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 .. OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
50	NA1000-1.6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
60	PE43022-1		..LABEL		AR
70	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
80	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
90	145-49074-401		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49074-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49074-401)	700-934	1
90A	145-49074-403		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49074-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
100	NAS1922-0275-1H		ATTACHING PARTS ..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1

ENGINE BLEED AIR SYS INSTL, FR 69

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Fig. 21(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 102	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
110	KAOW00L8-18MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-18MM		AR
120	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
120A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
130	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
130A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
140	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.8 LM: AR		AR
150	PE43022-1		..LABEL		AR
160	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
170	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
180	145-49075-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49075-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49075-401)	700-934	1

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Fig. 21(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
180A	145-49075-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49075-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
190	NAS1922-0275-1H		ATTACHING PARTS .CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		2
- 192	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
200	KAOWOOL6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

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-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
210	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
210A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
220	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
220A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
230	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
240	PE43022-1		..LABEL		AR
250	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
260	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
270	145-49076-401		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49076-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49076-401)	700-934	1
270A	145-49076-403		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49076-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
280	NAS1922-0275-1H		ATTACHING PARTS ..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275 * * *		2

ENGINE BLEED AIR SYS INSTL, FR 69

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 282	E8304277		..WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
290	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
300	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
300A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
310	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
310A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
320	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
330	PE43022-1		..LABEL		AR
340	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
350	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
380	145-02380-401		..TUBE ASSY IWW P/N: 145-02380-403 (N/P)	700-934	2

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
360A	145-02380-403		.TUBE ASSY I/W P/N: 145-02380-401 (N/P) (QUALIFIED INTERCH) (THE P/N 145-02380-405 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-02380-403)	700-934	2
360B	145-02380-405		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-02380-403 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		2
370	145-01073-001		.SHIM		20
380	145-01345-001		.GASKET		4
			ATTACHING PARTS		
- 382	CCR244CS3-8		.RIVET BLIND SUPPLIER CODE: V11815 ORDER TRUE P/N: CCR244CS-3-8 * * *		8
390	145-01072-001		.BUMPER		4
			ATTACHING PARTS		
400	NAS1021C3		.NUT HEXAGON SUPPLIER CODE: V80205		4
410	NAS820C10L		.WASHER FLAT SUPPLIER CODE: V80205		8
420	NAS1351-3-28P		.SCREW SUPPLIER CODE: V80205 * * *		4
430	KAOWOOL8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
440	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
440A	E7363942		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 .. OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
450	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM .. OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
450A	E7363914		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 .. OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
460	PE43022-1		..LABEL ATTACHING PARTS		AR
470	NM102420-0200		. V-CLAMP SUPPLIER CODE: V00624		2
475	NM102420-0200		. V-CLAMP SUPPLIER CODE: V00624 * * *		4
- 476	140-05310-407		.BLANKET INSULATION ASSY (POST-MOD SB 145-36-0048/01)(POST-MOD SB 145-36-0049)		4
480	713463-11		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		1
- 485	140-05310-405		.BLANKET INSULATION ASSY (POST-MOD SB 145-36-0048/01)(POST-MOD SB 145-36-0049) ATTACHING PARTS		1

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
490	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M I/W P/N: 600-052		4
490A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: PLT4S-C76 * * *		4
500	S2U2-226		.O'RING-2.0 PERFLUORCARBON SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 I/W P/N: 403039-20		4
500A	403039-20		.O'RING SUPPLIER CODE: V08118 I/W P/N: S2U2-226		4
510			ENGINE BLEED AIR SYS INSTL BTW FR 60 AND FR 70 SEE FIGURE 36-17-00-02		REF
520			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, LH SIDE SEE FIGURE 36-17-00-41		REF
530			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, RH SIDE SEE FIGURE 36-17-00-51		REF
540			ENGINE BLEED AIR SYS INSTL LH/RH PYLON SEE FIGURE 36-13-00-01		REF
550			SUPPORTS INSTL ENGINE BLEED, FR 60 SEE FIGURE 36-00-00-58		REF
560	S30020SD		O-RING		8
570	T30020SD		SLEEVE		4

ENGINE BLEED AIR SYS INSTL, FR 69

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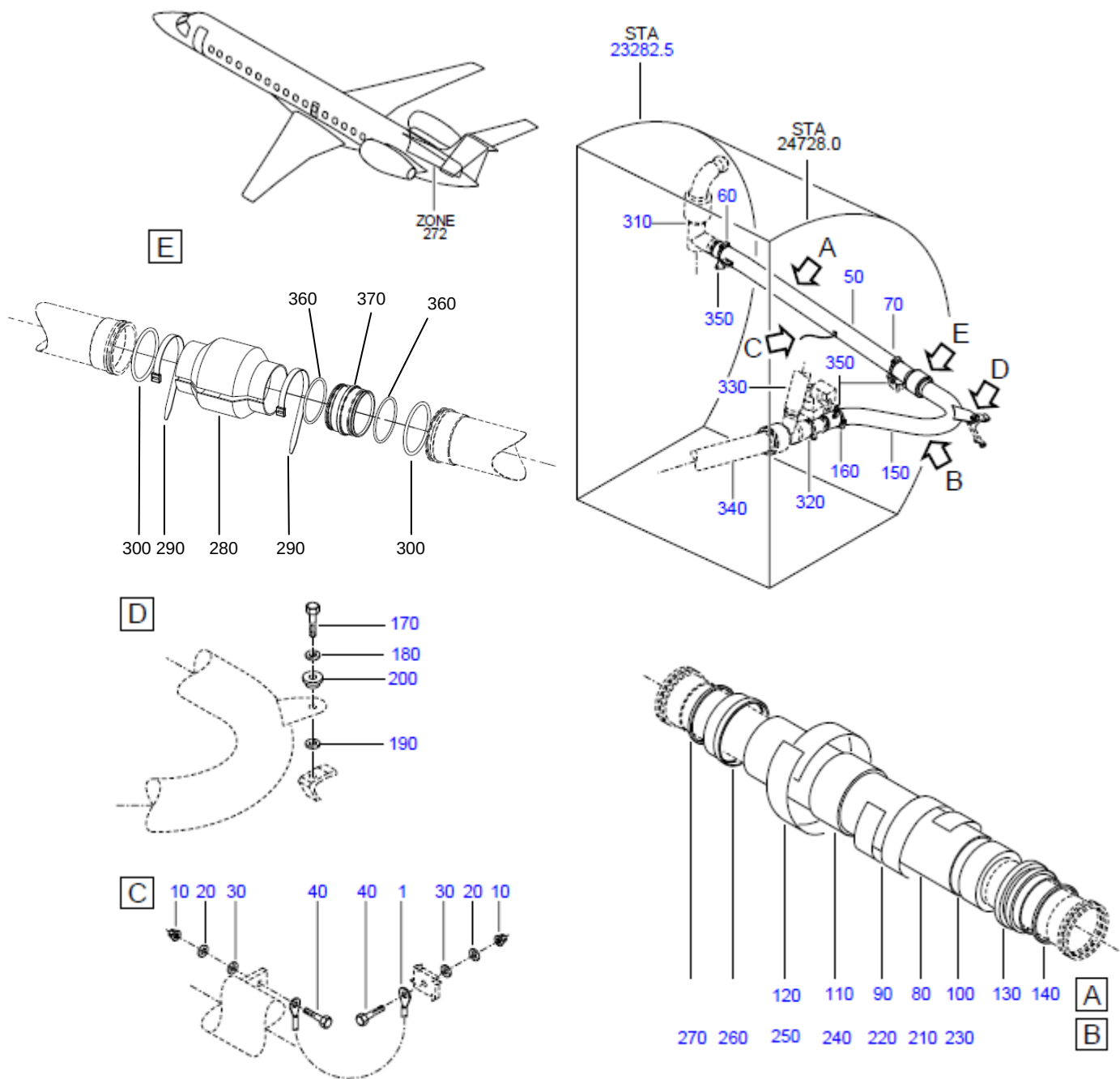


FIGURE 50(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, RH SIDE

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
50			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, RH SIDE FOR NHA SEE FIGURE 36-00-00-85 FOR NHA SEE FIGURE 36-17-00-20 FOR NHA SEE FIGURE 36-17-00-80	590-897	REF
1	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		1
10	MS21042-06		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98906		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98906		2
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN860C8L		2
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		2
			* * *		
50	145-49078-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49078-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49078-401)		1
50A	145-49078-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49078-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
			ATTACHING PARTS		
60	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
70	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		1
- 72	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
80	KA0W00L8-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, RH SIDE

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
90A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
100	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
100A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
110	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
120	PE43022-1		..LABEL		AR
130	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
140	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
150	145-49080-401		..TUBE ASSY (N/P) (NOT INTERCH WITH PN 145-02381-401) (QUALIFIED INTERCH) (THE P/N 145-49080-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49080-401)		1
150A	145-49080-403		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49080-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
160	NAS1922-0275-1H		ATTACHING PARTS ..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, RH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 162	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
170	NAS8203-5		.BOLT SUPPLIER CODE: V80205		1
180	NAS1149D0363H		.WASHER FLAT-ALUMINUM SUPPLIER CODE: V80205 OPTIONAL P/N: AN960D10		1
190	E8722309		.WASHER ORDER OVERLENGTH P/N: PE24030-YB-06-160-10		1
200	120-14322-001		.BUSHING BLEED TB SPRT * * *		1
210	KAOWOOL6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, RH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
220	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
- 220A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
230	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		AR
- 230A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
240	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
250	PE43022-1		..LABEL		AR
260	NR56120T		..NUT POSITIVELOK TITANIUM 2.0 SUPPLIER CODE: V29372		1
270	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
280	713463-11		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		1
290	PLT4SC76		ATTACHING PARTS ..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M I/W P/N: 600-052		2

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, RH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
290A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76 * * *		2
300	S2U2-226		.O'RING-2.0 PERFLUORCARBON SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 IW P/N: 403039-20		2
300A	403039-20		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-226		2
310			ENGINE BLEED AIR SYS INSTL FR 69 SEE FIGURE 36-17-00-20		REF
320			VALVE INSTL CROSS-BLEED SEE FIGURE 36-10-01-01		REF
330			ENGINE BLEED AIR SYS INSTL BTW FR 73 AND 75 SEE FIGURE 36-18-00-23		REF
340			ENGINE BLEED AIR SYS INSTL FR 74 SEE FIGURE 36-17-00-60		REF
350			.....		REF
360	S30020SD		O-RING		2
370	T30020SD		SLEEVE		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, RH SIDE

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Fig. 50(SUP)
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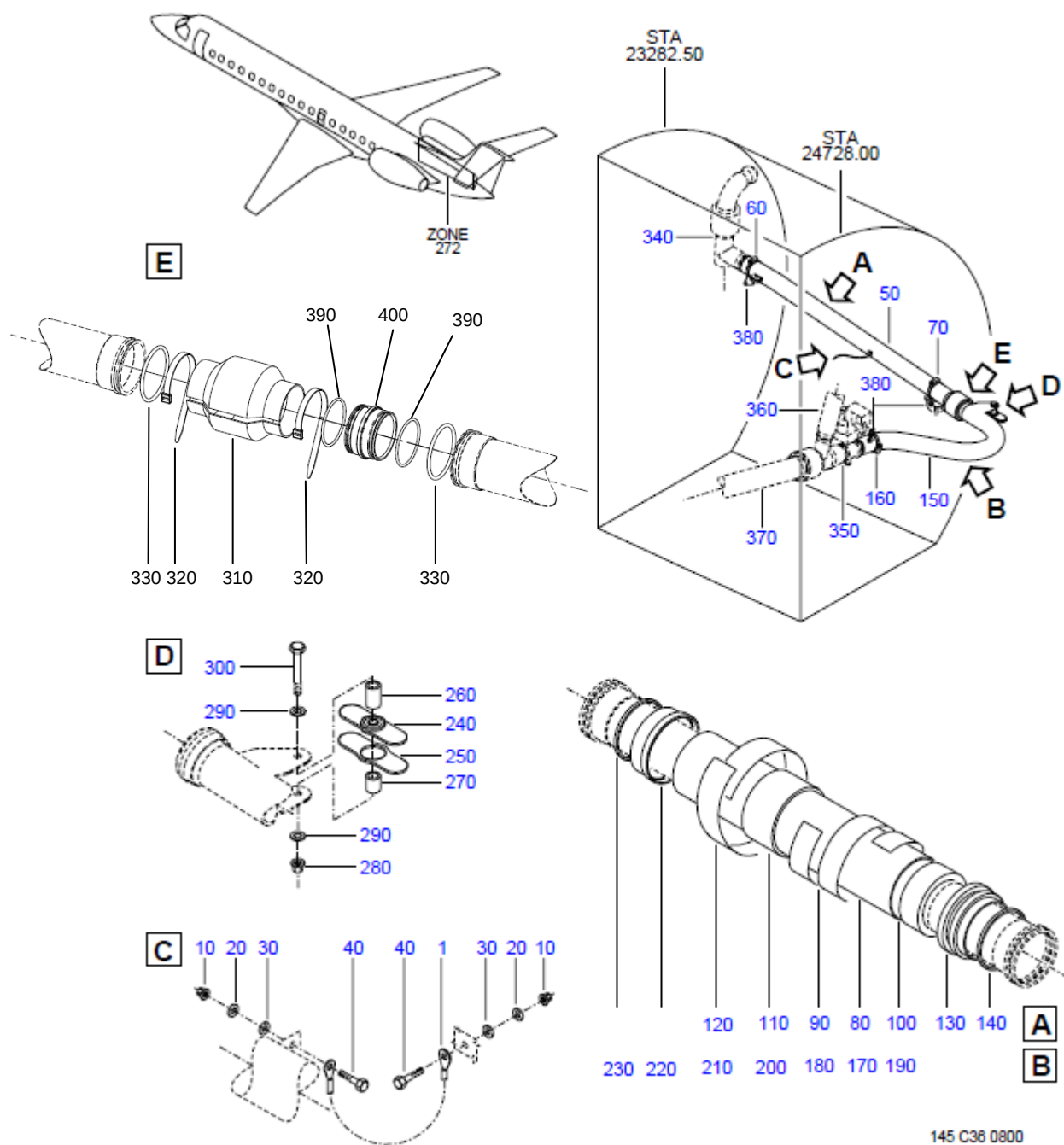


FIGURE 51(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, RH SIDE

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
51			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, RH SIDE FOR NHA SEE FIGURE 36-00-00-85 FOR NHA SEE FIGURE 36-17-00-21 FOR NHA SEE FIGURE 36-17-00-80	700-99999	REF
1	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		1
10	MS21042-08		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		2
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C8L		2
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		2
			* * *		
50	145-49078-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49078-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49078-401)	700-934	1
50A	145-49078-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49078-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
			ATTACHING PARTS		
60	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
70	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		1
- 72	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
80	KAOW00L8-16MM		.INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, RH SIDE

-ITEM NOT ILLUSTRATED

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Fig. 51(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: VD00KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
90A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
100	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: VD00KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
100A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
110	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
120	PE43022-1		..LABEL		AR
130	CRA56320T		..COUPLER SUPPLIER CODE: V29372		1
140	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1
150	145-02381-401		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49081-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49081-401)	700-934	1
150A	145-02381-403		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49081-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
160	NAS1922-0275-1H		ATTACHING PARTS ..CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, RH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 162	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
170	KAOWOOL-8-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
180	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
180A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
190	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
190A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
200	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
- 200A	PE15018-1		..HYDRAULIC CARDBOARD 1.6MM SUPPLIER CODE: VASBRT		AR
210	PE43022-1		..LABEL		AR
220	NR56120T		..NUT POSITIVELOK TITANIUM 2,0 SUPPLIER CODE: V29372		1
230	RA30120T		..RING RETAINING SUPPLIER CODE: V29372		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, RH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
240	145-83105-401		.BEARING ASSY		1
- 242	MS14101-8		.BEARING PLAIN		1
			SUPPLIER CODE: V98908 OPTIONAL P/N: ADB8V OPTIONAL P/N: ADB8V(L) OPTIONAL P/N: HT8V OPTIONAL P/N: MS14141-8 OPTIONAL P/N: SBS12ATH26M OPTIONAL P/N: 03-825-08		
250	145-01343-001		.PLATE		1
- 252	HST79CK8		.COLLAR THREADED-SHEAR,ALUMINUM		1
			SUPPLIER CODE: V73197 ORDER TRUE P/N: HST79CK-8 OPTIONAL P/N: HST79CY-8 OPTIONAL P/N: VLC79CK8		
			ATTACHING PARTS		
- 254	HST10BJ8-4		.PIN THREADED		2
			SUPPLIER CODE: V73197 ORDER TRUE P/N: HST10BJ8-4 OPTIONAL P/N: WC10BJ-8-4		
			* * *		
280	145-02722-005		.SPACER		1
270	145-02722-007		.SPACER SSTEEL		1
			ATTACHING PARTS		
- 272	MS24685-300		.PIN COTTER-SPLIT,STEEL		1
			SUPPLIER CODE: V98908		
280	PE22072L8		.NUT HEXAGON		1
			OPTIONAL P/N: 73783CM-824		
290	NAS1149C0818R		.WASHER FLAT		2
			SUPPLIER CODE: V80205		
300	NAS8206-38D		.BOLT		1
			SUPPLIER CODE: V80205		
			* * *		
310	713483-11		.COVER		1
			SUPPLIER CODE: V70628 OPTIONAL P/N: 4001-S		
			ATTACHING PARTS		
320	PLT4SC78		.CABLE TIE FOR HARNESS -NYLON		2
			SUPPLIER CODE: V98908 ORDER TRUE P/N: PLT4S-C78 OPTIONAL P/N: PLT4S-M78 OPTIONAL P/N: TYZ28M IWW P/N: 600-052		

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, RH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
320A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76 * * *		2
330	S2U2-226		.O'RING-2.0 PERFLUORCARBON SUPPLIER CODE: V26372 OPTIONAL P/N: AS568-226 OPTIONAL P/N: AS568-226 Z7257 OPTIONAL P/N: S2U2226 OPTIONAL P/N: S2U226 OPTIONAL P/N: S2U3-226 OPTIONAL P/N: V8545A7257-226 OPTIONAL P/N: 2-226 IW P/N: 403039-20		2
330A	403039-20		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-226		2
340			ENGINE BLEED AIR SYS INSTL FR 69 SEE FIGURE 36-17-00-21		REF
350			VALVE INSTL CROSS-BLEED SEE FIGURE 36-10-01-01		REF
360			ENGINE BLEED AIR SYS INSTL BTW FR 73 AND 75 SEE FIGURE 36-18-00-23		REF
370			ENGINE BLEED AIR SYS INSTL FR 74 SEE FIGURE 36-17-00-60		REF
380			.....		REF
390	S30020SD		O-RING		2
400	T30020SD		SLEEVE		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, RH SIDE

-ITEM NOT ILLUSTRATED

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Fig. 51(SUP)
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ILLUSTRATED PARTS CATALOG



Fig. 40(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
40			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, LH SIDE FOR NHA SEE FIGURE 36-00-00-80 FOR NHA SEE FIGURE 36-17-00-20 FOR NHA SEE FIGURE 36-17-00-60 FOR NHA SEE FIGURE 36-18-00-01	590-897	REF
1	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		1
10	MS21042-08		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		2
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C8L		2
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205 * * *		2
50	145-49079-401		.TUBE ASSY (N/P) (NOT INTERCH WITH PN 145-49079-403)		REF
50A	145-49079-405		.TUBE ASSY		1
60	NAS1922-0275-1H		ATTACHING PARTS .CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
70	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		1
- 72	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
80	KAOWOOL8-16MM		.INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, LH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
90A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
100	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
100A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
110	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
120	PE43022-1		..LABEL		AR
130	NR56125T		..NUT POSITIVELOK TITANIUM 2,5 SUPPLIER CODE: V29372		1
140	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		1
150	145-49087-401		..TUBE ASSY IW P/N: 145-04743-405 (N/P) (FOR REPLACEMENT USE PN 145-49087-403)		REF
150A	145-04743-405		..TUBE Y REINFORCED ASSY IW P/N: 145-49087-401 (N/P) (QUALIFIED INTERCH) (THE PN 145-04743-411 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE PN 145-04743-405)		REF
150B	145-49087-403		..TUBE ASSY IW P/N: 145-04743-411		1
150C	145-04743-411		..TUBE Y REINFORCED ASSY IW P/N: 145-49087-403 (QUALIFIED INTERCH) (THE P/N 145-04743-405 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
160	KA0W00L8-16MM		..INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, LH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
170	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
170A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
180	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE		REF
180A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
190	PE43022-1		..LABEL		AR
200	CRA56325T		..COUPLER SUPPLIER CODE: V29372		1
210	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		1
			ATTACHING PARTS		
220	NM102420-0250		..CLAMP SUPPLIER CODE: V00624 * * *		1
230	713463-13		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S ATTACHING PARTS		1
240	PLT4SC76		..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M I/W P/N: 600-052		2
240A	600-052		..BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: PLT4S-C76 * * *		2

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, LH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
250	S2U2-230		.O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 I/W P/N: 403039-25		2
250A	403039-25		.O-RING SUPPLIER CODE: V08118 I/W P/N: S2U2-230		2
260			ENGINE BLEED AIR SYS INSTL FR 60 SEE FIGURE 36-17-00-20		REF
270			ENGINE BLEED AIR SYS INSTL FR 74 SEE FIGURE 36-17-00-60		REF
280			ENGINE BLEED AIR SYS INSTL BTW FR 74 AND 76 SEE FIGURE 36-18-00-01		REF
290			.....		REF
300			.....		REF
310	S30025SD		O-RING		2
320	T30025SD		SLEEVE		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, LH SIDE

-ITEM NOT ILLUSTRATED

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Fig. 40(SUP)
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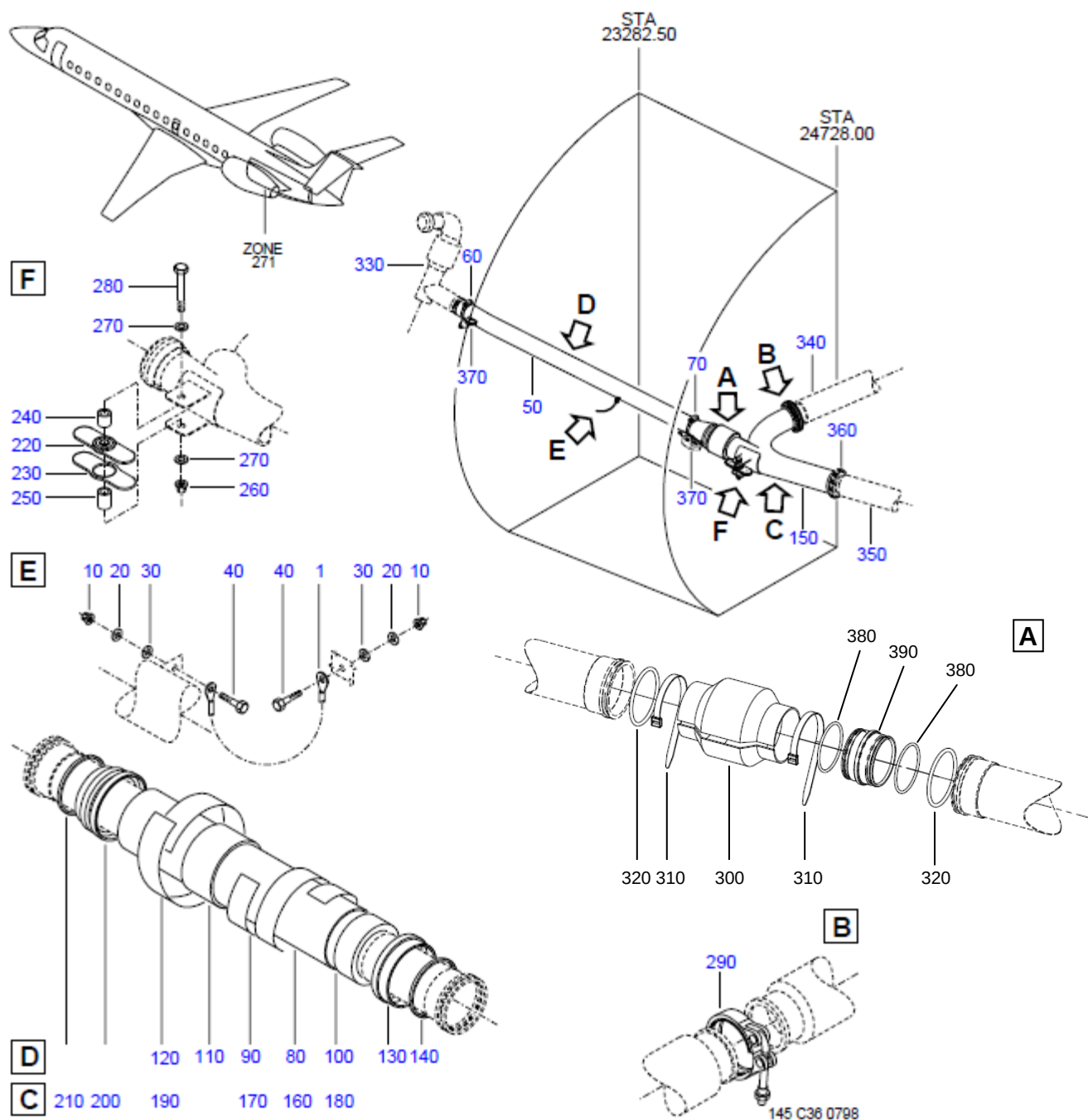


FIGURE 41(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND FR 74, LH SIDE

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Fig. 41(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
41			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, LH SIDE FOR NHA SEE FIGURE 36-00-00-80 FOR NHA SEE FIGURE 36-17-00-21 FOR NHA SEE FIGURE 36-17-00-60 FOR NHA SEE FIGURE 36-18-00-01	700-99999	REF
1	LN9284-1-5X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X125		1
10	MS21042-08		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98906		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98906		2
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C8L		2
40	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		2
			* * *		
50	145-49079-403		.TUBE ASSY (NOT INTERCH WITH PN 145-49079-401) (N/P) (QUALIFIED INTERCH) (THE P/N 145-49079-407 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49079-403)	700-934	1
50A	145-49079-407		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49079-403 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
			ATTACHING PARTS		
60	NAS1922-0275-1H		.CLAMP ADJUSTABLE SUPPLIER CODE: V80205 OPTIONAL P/N: NH103275-0275		1
70	PE27021-5770		.CLAMP OPTIONAL P/N: FIF5770		1
- 72	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
			* * *		
80	KAOWOOL8-16MM		.INSULATING BLANKET TYPE 1, GRADE 8 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, LH SIDE

-ITEM NOT ILLUSTRATED

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Fig. 41(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
90A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
100	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
100A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
110	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
120	PE43022-1		..LABEL		AR
130	NR56125T		..NUT POSITIVELOK TITANIUM 2,5 SUPPLIER CODE: V29372		1
140	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		1
150	145-02383-401		..TUBE ASSY IW P/N: 145-02383-403 (N/P) (NOT INTERCH WITH PN 145-49087-401)	700-787	1
150A	145-02383-403		..TUBE ASSY IW P/N: 145-02383-401 (N/P) (QUALIFIED INTERCH) (THE P/N 145-02383-405 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-02383-403)	700-787	1
150B	145-02383-405		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-02383-403 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, LH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
160	KAOWOOL-6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
170	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
170A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
180	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	700-934	AR
180A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
190	PE43022-1		..LABEL		AR
200	CRA56325T		..COUPLER SUPPLIER CODE: V29372		1
210	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		1
220	145-63105-401		..BEARING ASSY		1
- 222	MS14101-6		..BEARING PLAIN SUPPLIER CODE: V96908 OPTIONAL P/N: ADB8V OPTIONAL P/N: ADB8V(L) OPTIONAL P/N: HT8V OPTIONAL P/N: MS14141-6 OPTIONAL P/N: SBS12ATH26M OPTIONAL P/N: 03-825-06		1
230	145-01343-001		..PLATE		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, LH SIDE

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
- 232	HST79CK8		.COLLAR THREADED-SHEAR,ALUMINUM SUPPLIER CODE: V73197 ORDER TRUE P/N: HST79CK-8 OPTIONAL P/N: HST79CY-8 OPTIONAL P/N: VLC79CK8 ATTACHING PARTS		2
- 234	HST10BJ8-4		.PIN THREADED SUPPLIER CODE: V73197 ORDER TRUE P/N: HST10BJ-8-4 OPTIONAL P/N: WC10BJ-8-4 * * *		2
240	145-02722-001		.SPACER		1
250	145-02722-003		.SPACER		1
- 251	MS24685-300		.PIN COTTER-SPLIT,STEEL SUPPLIER CODE: V98908		1
280	PE22072L6		.NUT HEXAGON OPTIONAL P/N: 73783CM-624		1
270	NAS1149C0832R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C616L		2
280	NAS6206-25D		.BOLT SUPPLIER CODE: V80205 ATTACHING PARTS		1
290	NM102420-0250		.CLAMP SUPPLIER CODE: V00624 * * *		1
300	713463-13		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S ATTACHING PARTS		1
310	PLT4SC76		.CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98908 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M I/W P/N: 600-052		2
310A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: PLT4S-C76 * * *		2

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, LH SIDE

-ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
320	S2U2-230		.O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 I/W P/N: 403039-25		2
320A	403039-25		.O-RING SUPPLIER CODE: V08118 I/W P/N: S2U2-230		2
330			.....		REF
340			ENGINE BLEED AIR SYS INSTL FR 74 SEE FIGURE 36-17-00-60		REF
350			ENGINE BLEED AIR SYS INSTL BTW FR 74 AND 76 SEE FIGURE 36-18-00-01		REF
360			.....		REF
370			.....		REF
380	S30025SD		O-RING		2
390	T30025SD		SLEEVE		1

ENGINE BLEED AIR SYS INSTL, BTW FR 70 AND 74, LH SIDE

-ITEM NOT ILLUSTRATED

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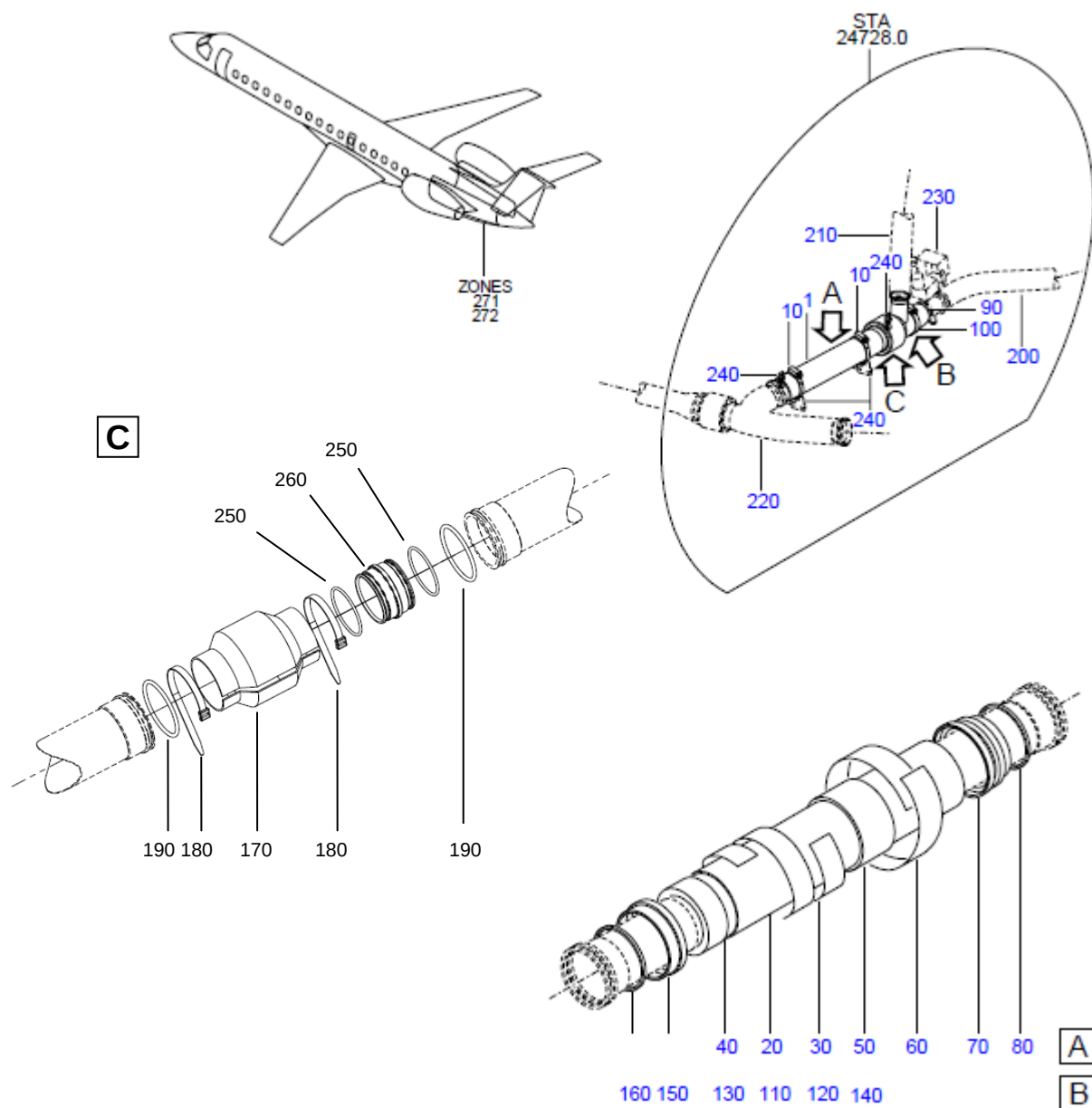


FIGURE 60(SUP) - ENGINE BLEED AIR SYS INSTL, FR 74

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
60			ENGINE BLEED AIR SYS INSTL FR 74 FOR NHA SEE FIGURE 36-10-01-01 FOR NHA SEE FIGURE 36-17-00-40 FOR NHA SEE FIGURE 36-17-00-41 FOR NHA SEE FIGURE 36-17-00-50 FOR NHA SEE FIGURE 36-17-00-51		REF
1	145-49082-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49082-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49082-401)	590-934	REF
1A	145-49082-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49082-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
10	PE27021-7089		ATTACHING PARTS .CLAMP MULTIPLE SIZE TANGENCIAL WOR OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		2
- 12	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20 * * *		AR
20	KAOWOOL6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, FR 74

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
30	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	REF
30A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
40	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	REF
40A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
50	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
60	PE43022-1		..LABEL		AR
70	CRA56325T		..COUPLER SUPPLIER CODE: V29372		1
80	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		1
90	145-49081-401		..TUBE ASSY IW P/N: 145-04740-409 (N/P) (FOR REPLACEMENT USE P/N 145-49081-403)	590-934	REF
90A	145-04740-409		..TUBE REINFORCED ASSY IW P/N: 145-49081-401 (N/P) (QUALIFIED INTERCH) (THE P/N 145-04740-419 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-04740-409)	590-934	REF
90B	145-49081-403		..TUBE ASSY IW P/N: 145-04740-419		1

ENGINE BLEED AIR SYS INSTL, FR 74

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90C	145-04740-419		.TUBE ASSY I/W P/N: 145-49081-403 (QUALIFIED INTERCH) (THE P/N 145-04740-409 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
100	PE27021-7089		ATTACHING PARTS .CLAMP MULTIPLE SIZE TANGENCIAL WOR OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		1
- 102	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
110	KA0W00L6-16MM		* * * ..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, FR 74

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Fig. 60(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
120	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	REF
120A	E7383814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
130	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	REF
130A	E7383842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
140	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
150	NR56125T		..NUT POSITIVELOK TITANIUM 2,5 SUPPLIER CODE: V29372		1
160	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		1
170	713463-13		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S		1
180	PLT4SC76		ATTACHING PARTS ..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M I/W P/N: 600-052		2
180A	600-052		..BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: PLT4S-C76 * * *		2

ENGINE BLEED AIR SYS INSTL, FR 74

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Fig. 60(SUP)

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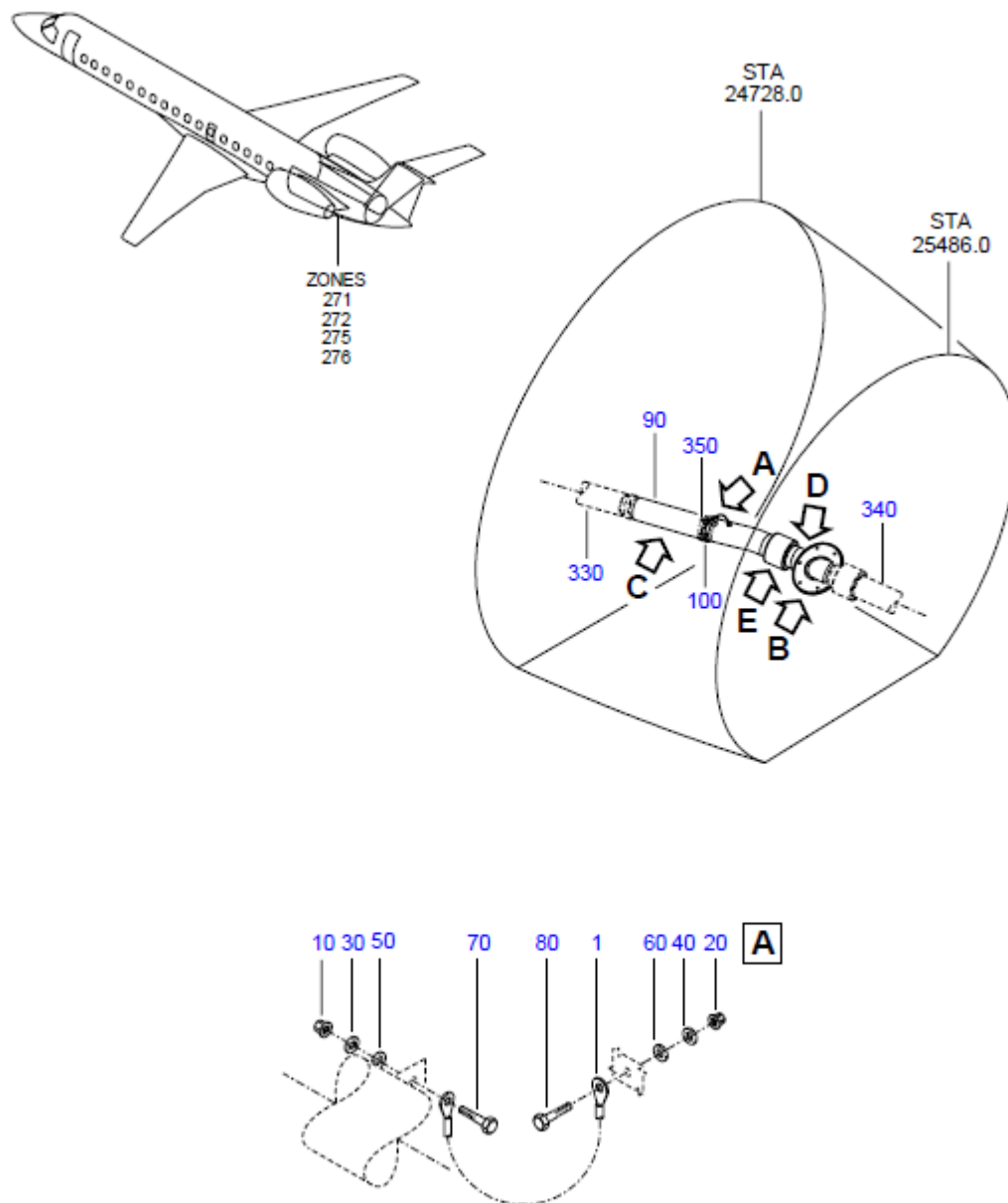
FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
190	S2U2-230		.O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 IW P/N: 403039-25		2
190A	403039-25		.O-RING SUPPLIER CODE: V08118 IW P/N: S2U2-230		2
200			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, RH SIDE SEE FIGURE 36-17-00-50 SEE FIGURE 36-17-00-51		REF
210			ENGINE BLEED AIR SYS INSTL BTW FR 73 AND 75 SEE FIGURE 36-18-00-23		REF
220			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, LH SIDE SEE FIGURE 36-17-00-40 SEE FIGURE 36-17-00-41		REF
230			VALVE INSTL CROSS-BLEED SEE FIGURE 36-10-01-01		REF
240			SUPPORTS INSTL ENGINE BLEED, FR 74 SEE FIGURE 36-00-00-71		REF
250	S30025SD		O-RING		2
260	T30025SD		SLEEVE		1

ENGINE BLEED AIR SYS INSTL, FR 74

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145 C36 0442 A

FIGURE 01(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND FR 76
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Fig. 01(SUP)
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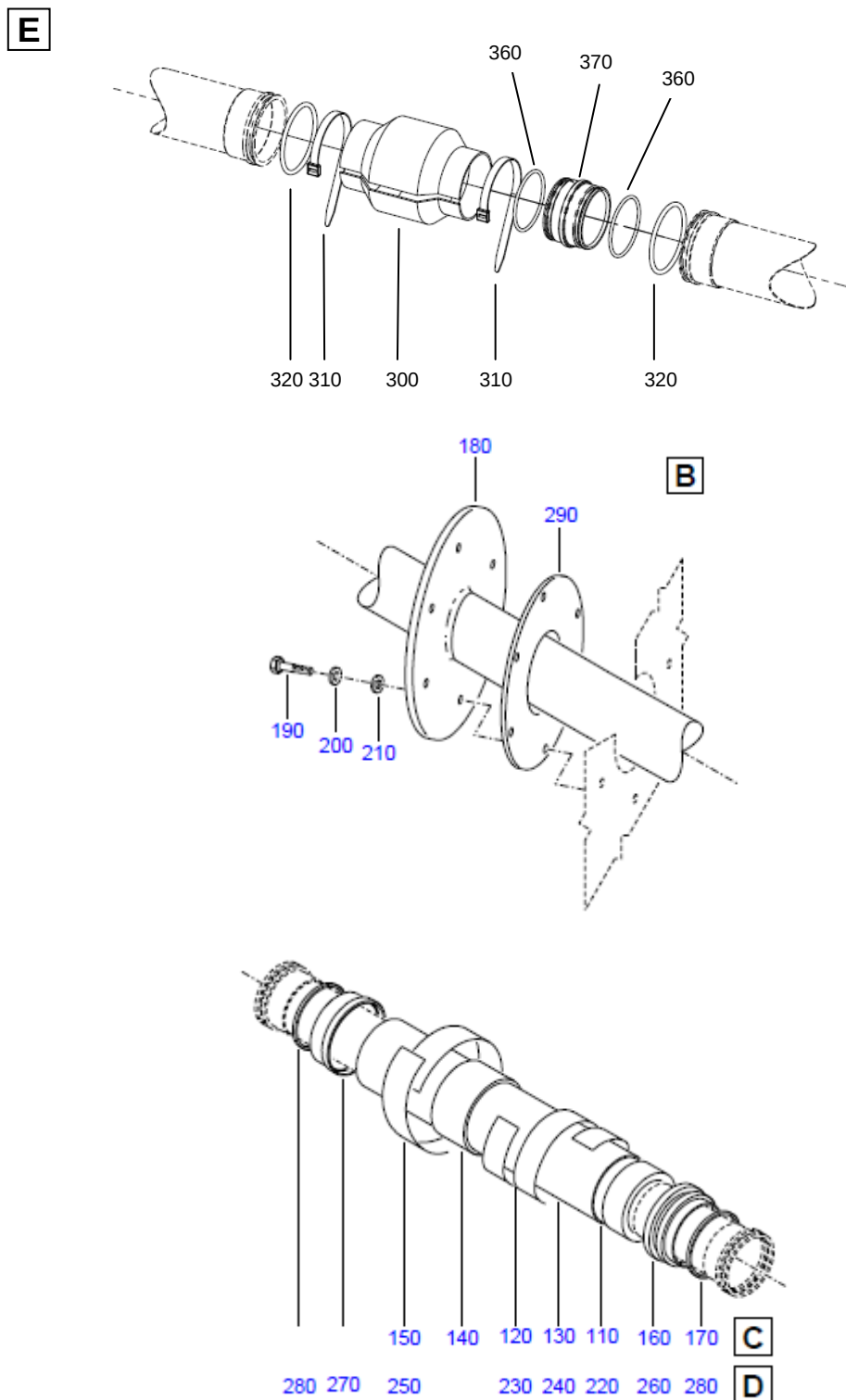


FIGURE 01(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND FR 76
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Fig. 01(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
01			ENGINE BLEED AIR SYS INSTL BTW FR 74 AND 76 FOR NHA SEE FIGURE 36-00-00-82 FOR NHA SEE FIGURE 36-17-00-40 FOR NHA SEE FIGURE 36-17-00-41 FOR NHA SEE FIGURE 36-18-00-10 FOR NHA SEE FIGURE 36-18-00-10A FOR NHA SEE FIGURE 36-18-00-11 FOR NHA SEE FIGURE 36-20-02-19		REF
1	LN9264-4X125		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: V08442		1
			ATTACHING PARTS		
10	MS21042-08		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		1
20	MS21042-3		.NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		1
30	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		1
40	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		1
50	NAS1149CN818R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN808C6L		1
60	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN808C10L OPTIONAL P/N: NAS1149C0332R.		1
70	NAS1096-1-8		.SCREW SUPPLIER CODE: V80205		1
80	NAS1096-3-8		.SCREW SUPPLIER CODE: V80205		1
			* * *		
90	145-49083-401		.TUBE ASSY RPLD BY P/N: 145-49083-403 (N/P) (QUALIFIED INTERCH) (THE P/N 145-49083-407 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49083-401)	590-897	1
90A	145-49083-403		.TUBE ASSY RPLS P/N: 145-49083-401 RPLD BY P/N: 145-49083-405 (N/P)	590-704	1
90B	145-49083-405		.TUBE ASSY RPLS P/N: 145-49083-403 (N/P) (QUALIFIED INTERCH) (THE P/N 145-49083-409 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49083-405)	590-934	1
90C	145-49083-409		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49083-405 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1

ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND 76

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Fig. 01(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
90D	145-49083-407		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49083-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
- 92	E8304277		ATTACHING PARTS .WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
100	PE27021-7089		.CLAMP MULTIPLE SIZE TANGENCIAL WOR OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		1
			* * *		
110	KA0W00L6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR
120	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	AR
120A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
130	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	AR
130A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
140	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
150	PE43022-1		..LABEL		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND 76

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
180	CRA56325T		..COUPLER SUPPLIER CODE: V29372		1
170	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		1
180	145-49084-401		..TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49084-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49084-401)	590-934	1
180A	145-49084-403		..TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49084-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
			ATTACHING PARTS		
190	NAS8203-4		..BOLT-HEXAGON HEAD STEEL SUPPLIER CODE: V80205		6
200	MS35338-138		..WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		6
210	NAS1149C0332R		..WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN860C10L OPTIONAL P/N: NAS1149C0332R.		6
			* * *		
220	KAOWOOL6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND 76

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
230	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	AR
230A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
240	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	AR
240A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
250	PE43022-1		..LABEL		AR
260	CRA56325T		..COUPLER SUPPLIER CODE: V29372		1
270	NR56125T		..NUT POSITIVELOK TITANIUM 2,5 SUPPLIER CODE: V29372		1
280	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		2
290	145-21161-001		..PACKING		1
300	713463-13		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S		1
310	PLT4SC76		ATTACHING PARTS ..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052		2

ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND 76

-ITEM NOT ILLUSTRATED

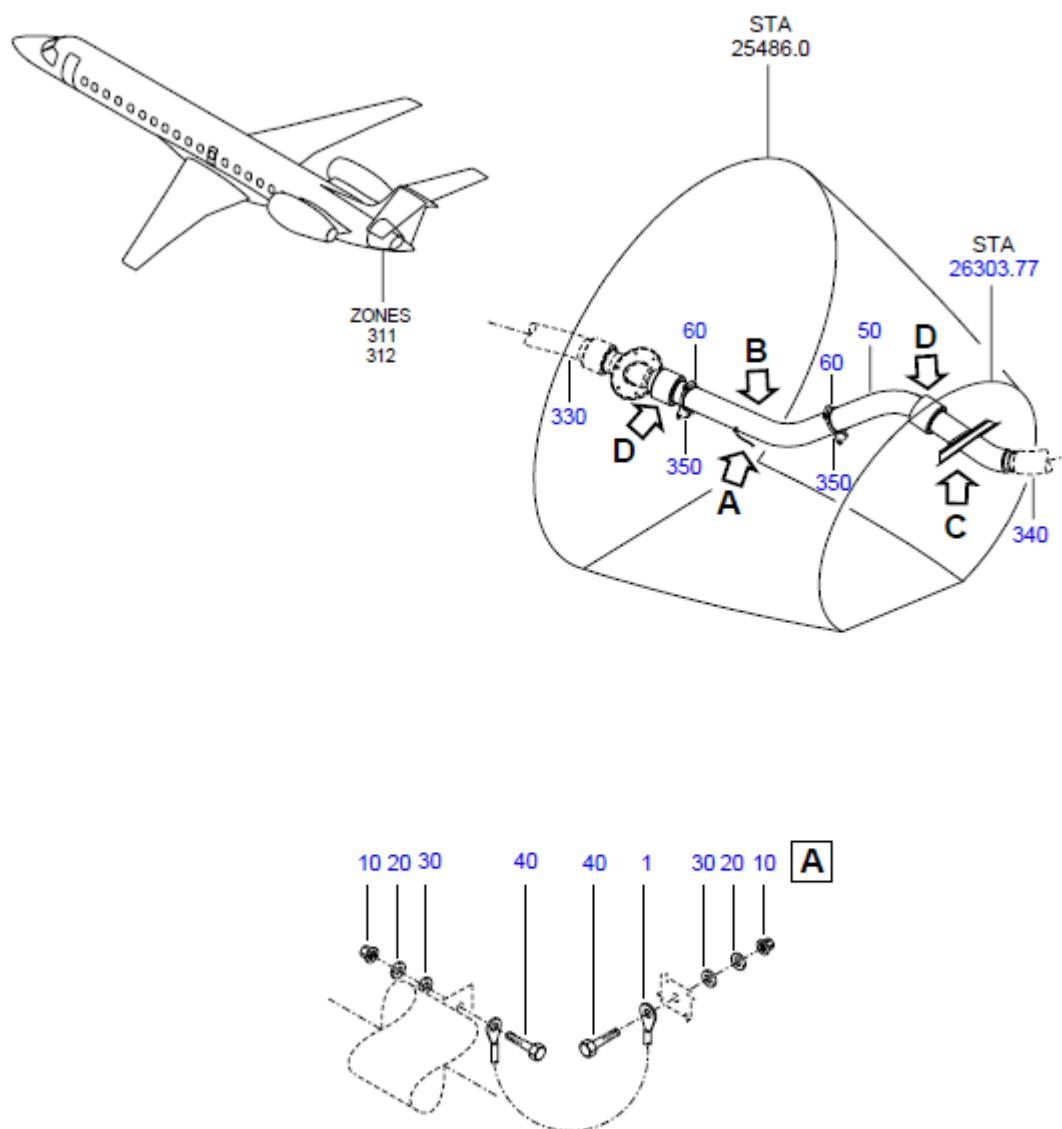
FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
310A	800-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 I/W P/N: PLT4S-C76 * * *		2
320	S2U2-230		.O-RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 I/W P/N: 403039-25		2
320A	403039-25		.O-RING SUPPLIER CODE: V08118 I/W P/N: S2U2-230		2
330			ENGINE BLEED AIR SYS INSTL BTW FR 70 AND 74, LH SIDE SEE FIGURE 36-17-00-40 SEE FIGURE 36-17-00-41		REF
340			ENGINE BLEED AIR SYS INSTL BTW FR 76 AND 80 SEE FIGURE 36-18-00-10 SEE FIGURE 36-18-00-10A		REF
350			SUPPORTS INSTL ENGINE BLEED, BTW FR 74 AND FR 80 SEE FIGURE 36-00-00-82		REF
360	S30025SD		O-RING		2
370	T30025SD		SLEEVE		1

ENGINE BLEED AIR SYS INSTL, BTW FR 74 AND 76

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FIGURE 10(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND FR 80
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Fig. 10(SUP)
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Seal Dynamics

EMB145 ILLUSTRATED PARTS CATALOG

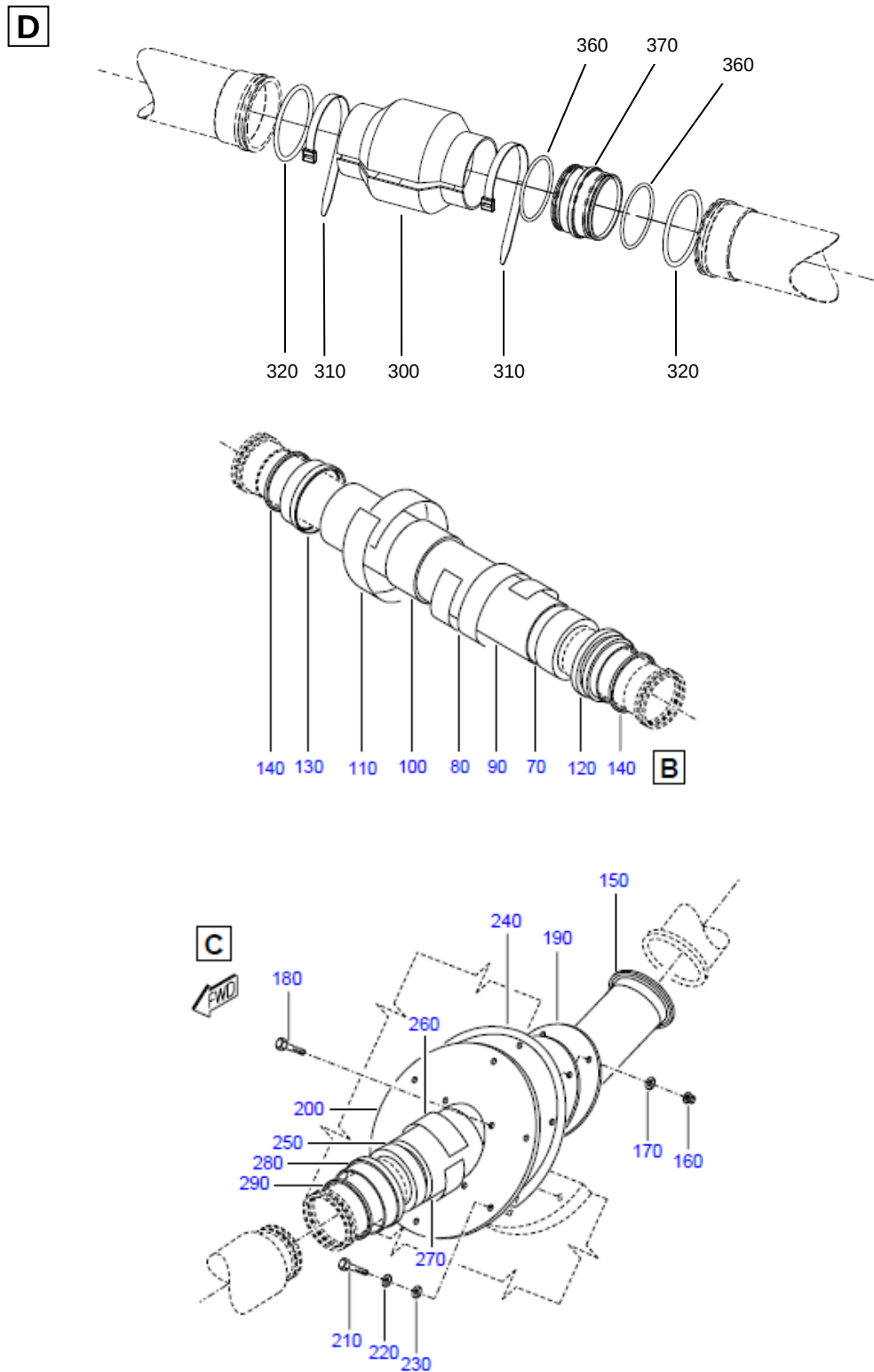


FIGURE 10(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND FR 80
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Fig. 10(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
10			ENGINE BLEED AIR SYS INSTL BTW FR 76 AND 80 FOR NHA SEE FIGURE 36-12-01-03 FOR NHA SEE FIGURE 36-18-00-01 (PRE-MOD SB 145-49-0031)	590-943	REF
1	LN9264-1-5X200		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9264-1,5X200		1
10	MS21042-06		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98908		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		2
30	NAS1149CN616R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C6L		2
40	NAS1096-1-6		.SCREW SUPPLIER CODE: V80205		2
			* * *		
50	145-49085-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE P/N 145-49085-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 145-49085-401)	590-934	1
50A	145-49085-403		.TUBE ASSY (QUALIFIED INTERCH) (THE P/N 145-49085-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
			ATTACHING PARTS		
52	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
60	PE27021-7089		.CLAMP MULTIPLE SIZE TANGENCIAL WOR OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		2
			* * *		
70	KAOWOOL6-16MM		..INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

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Fig. 10(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	AR
80A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
90	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	AR
90A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
100	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
110	PE43022-1		..LABEL		AR
120	CRA56325T		..COUPLER SUPPLIER CODE: V29372		1
130	NR56125T		..NUT POSITIVELOK TITANIUM 2,5 SUPPLIER CODE: V29372		1
140	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		2
150	145-49086-401		..TUBE ASSY RPLD BY P/N: 145-49086-403 (N/P)	590-934	1
150A	145-49086-403		..TUBE ASSY RPLS P/N: 145-49086-401 (NOT INTERCH WITH PN 145-49086-405) ATTACHING PARTS		1

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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Fig. 10(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
160	NAS1291C3M		.NUT HEXAGON-SELF LOCKING,CRES SUPPLIER CODE: V80205 OPTIONAL P/N: BH1291C3M OPTIONAL P/N: H42-3 OPTIONAL P/N: NAS1291C3M OPTIONAL P/N: PLH-53M OPTIONAL P/N: P32333 * * *		4
170	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C10L OPTIONAL P/N: NAS1149C0332R. ATTACHING PARTS		4
180	AN3C3A		.BOLT-HEXAGON HEAD CRES SUPPLIER CODE: V88044 * * *		4
190	145-34423-011		.FLANGE		1
200	145-22416-013		.FLANGE		1
			ATTACHING PARTS		
210	AN3C4A		.BOLT-HEXAGON HEAD CRES SUPPLIER CODE: V88044		6
220	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98906		6
230	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C10L OPTIONAL P/N: NAS1149C0332R. * * *		6
240	145-22415-009		.SEAL		1
250	KAOWOOL8-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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Fig. 10(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
280	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE P/N KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	AR
280A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE P/N 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
270	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE P/N KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE P/N 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	AR
270A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE P/N 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
280	NR56125T		..NUT POSITIVELOK TITANIUM 2,5 SUPPLIER CODE: V29372		1
290	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		1
300	713463-13		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S		2
310	PLT4SC76		ATTACHING PARTS ..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052 * * *		4
310A	600-052		..BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76		4

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

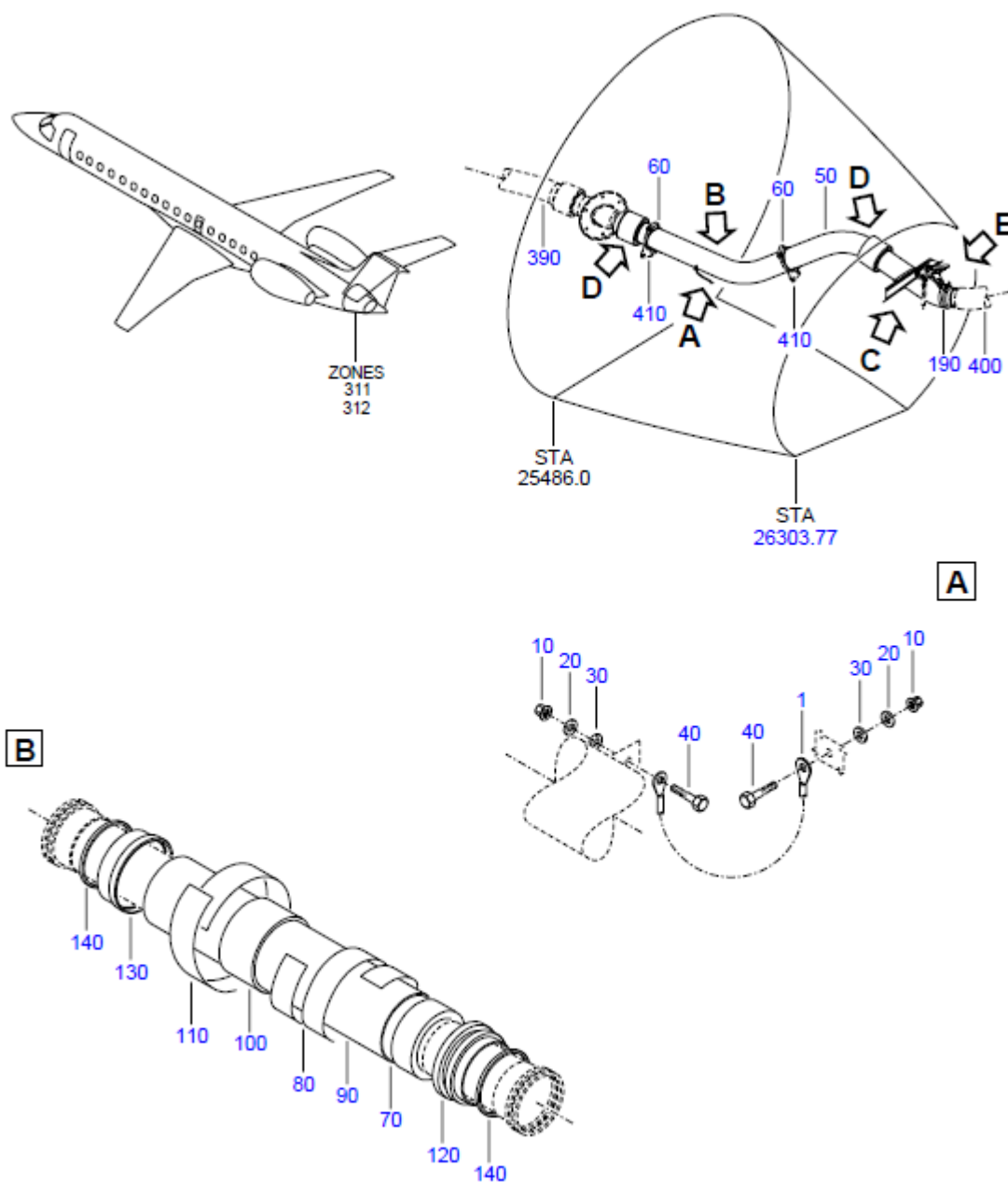
FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
320	S2U2-230		.O'RING SUPPLIER CODE: V28372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 IW P/N: 403039-25		4
320A	403039-25		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-230		4
330			ENGINE BLEED AIR SYS INSTL BTW FR 74 AND 76 SEE FIGURE 36-18-00-01		REF
340			VALVE INSTL APU BLEED, APU MODEL 40C14 SEE FIGURE 36-12-01-03		REF
350			SUPPORTS INSTL ENGINE BLEED, BTW FR 74 AND FR 80 SEE FIGURE 36-00-00-82		REF
360	S30025SD		O-RING		4
370	T30025SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

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FIGURE 10A(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND FR 80
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Fig. 10A(SUP)
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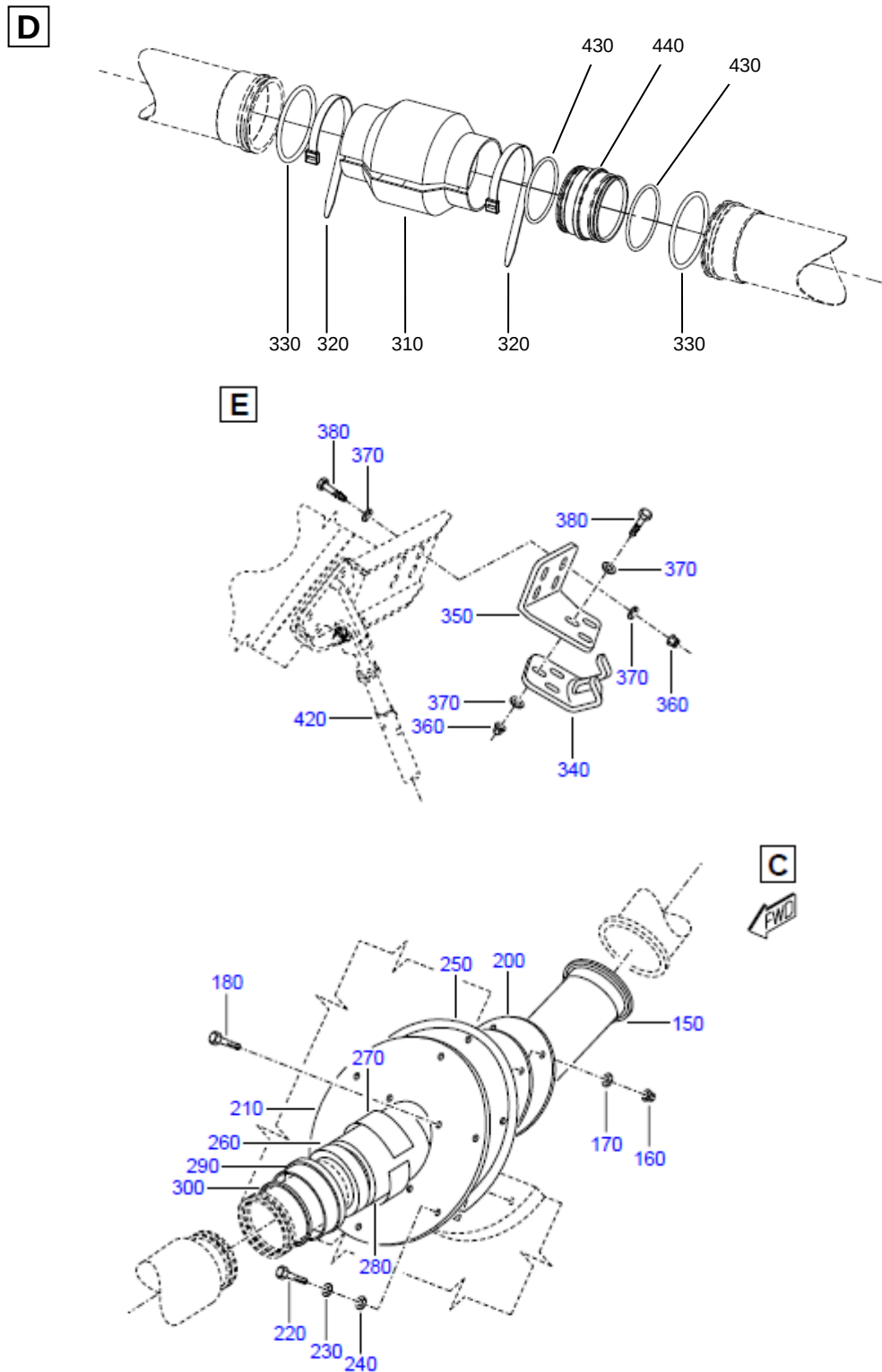


FIGURE 10A(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND FR 80
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
10A			ENGINE BLEED AIR SYS INSTL BTW FR 76 AND 80 FOR NHA SEE FIGURE 36-12-01-03 FOR NHA SEE FIGURE 36-18-00-01 (POST-MOD SB 145-49-0031)	590-943	REF
1	LN9264-1-5X200		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: V08442 ORDER TRUE P/N: LN9264-1,5X200		1
10	MS21042-06		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V96908		2
20	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V96908		2
30	NAS1149CN616R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C6L		2
40	NAS1096-1-6		.SCREW SUPPLIER CODE: V80205		2
			* * *		
50	145-49085-401		.TUBE ASSY (N/P) (QUALIFIED INTERCH) (THE PN 145-49085-403 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE PN 145-49085-401)	590-934	1
50A	145-49085-403		.TUBE ASSY (QUALIFIED INTERCH) (THE PN 145-49085-401 SHOULD NOT BE USED AS A REPLACEMENT SPARE)		1
			ATTACHING PARTS		
52	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V96908 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
60	PE27021-7089		.CLAMP MULTIPLE SIZE TANGENCIAL WOR OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		2
			* * *		
70	KA0W00L6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
80	E8303778		..TAPE POLYIMIDE,19MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-19MM . OPTIONAL P/N: 5413-19MM OPTIONAL P/N: 5413-19MM .. (N/P) (QUALIFIED INTERCH) (THE PN KB46/20 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE PN 5413-19MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	AR
80A	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 (QUALIFIED INTERCH) (THE PN 5413-19MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,20MM		AR
90	E7184393		..TAPE POLYIMIDE,50MM-SILICON ADHESIVE SUPPLIER CODE: V000KK ORDER OVERLENGTH P/N: 5413-50MM .. OPTIONAL P/N: 5413-50MM OPTIONAL P/N: 5413-50MM . (N/P) (QUALIFIED INTERCH) (THE PN KB46/50 MUST BE USED AS A REPLACEMENT SPARE IN PLACE OF THE PN 5413-50MM) LM: TAPE,POLYIMIDE,19MM-SILICON ADHESIVE	590-934	AR
90A	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 (QUALIFIED INTERCH) (THE PN 5413-50MM SHOULD NOT BE USED AS A REPLACEMENT SPARE) LM: TAPE,POLYIMIDE,50MM		AR
100	NA1000-1-8		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
110	PE43022-1		..LABEL		AR
120	CRA56325T		..COUPLER SUPPLIER CODE: V29372		1
130	NR56125T		..NUT POSITIVELOK TITANIUM 2,5 SUPPLIER CODE: V29372		1
140	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		2
150	145-49086-803		..SERVICE BULLETIM TUBE ASSY IW P/N: 145-49086-405		1
150A	145-49086-405		..TUBE ASSY IW P/N: 145-49086-803 ATTACHING PARTS		1

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
180	NAS1291C3M		.NUT HEXAGON-SELF LOCKING,CRES SUPPLIER CODE: V80205 OPTIONAL P/N: BH1291C3M OPTIONAL P/N: H42-3 OPTIONAL P/N: NAS1291C3M OPTIONAL P/N: PLH-53M OPTIONAL P/N: P32333		4
170	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN860C10L OPTIONAL P/N: NAS1149C0332R.		4
180	AN3C3A		.BOLT-HEXAGON HEAD CRES SUPPLIER CODE: V88044		4
190	320C82-285M		.CLAMP ASSY-BOLT T HEAD SUPPLIER CODE: V00624		1
			* * *		
200	145-34423-011		.FLANGE		1
210	145-22416-013		.FLANGE		1
			ATTACHING PARTS		
220	AN3C4A		.BOLT-HEXAGON HEAD CRES SUPPLIER CODE: V88044		6
230	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98906		6
240	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN860C10L OPTIONAL P/N: NAS1149C0332R.		6
			* * *		
250	145-22415-009		.SEAL		1
260	KADW00L6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-6-16MM		AR
270	E7383814		.TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
280	E7383842		.TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
290	NR58125T		.NUT POSITIVELOK TITANIUM 2,5 SUPPLIER CODE: V29372		1
300	RA30125T		.RING RETAINING SUPPLIER CODE: V29372		1

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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Fig. 10A(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
310	713463-13		.COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S		2
320	PLT4SC78		ATTACHING PARTS .CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V98906 ORDER TRUE P/N: PLT4S-C78 OPTIONAL P/N: PLT4S-M78 OPTIONAL P/N: TYZ28M IW P/N: 600-052		4
320A	600-052		.BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C78 * * *		4
330	S2U2-230		.O'RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 IW P/N: 403039-25		4
330A	403039-25		.O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-230		4
340	140-04328-003		.SUPPORT		1
350	140-04328-001		.SUPPORT		1
360	NAS1291C3M		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,CRES SUPPLIER CODE: V80205 OPTIONAL P/N: BH1291C3M OPTIONAL P/N: H42-3 OPTIONAL P/N: NAS1291C3M OPTIONAL P/N: PLH-53M OPTIONAL P/N: P32333		7
370	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C10L OPTIONAL P/N: NAS1149C0332R.		14
380	NAS6403A5		.BOLT SUPPLIER CODE: V80205 * * *		7
390			ENGINE BLEED AIR SYS INSTL BTW FR 74 AND 76 SEE FIGURE 36-18-00-01		REF
400			VALVE INSTL APU BLEED, APU MODEL 40C14 SEE FIGURE 36-12-01-03		REF

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

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Fig. 10A(SUP)
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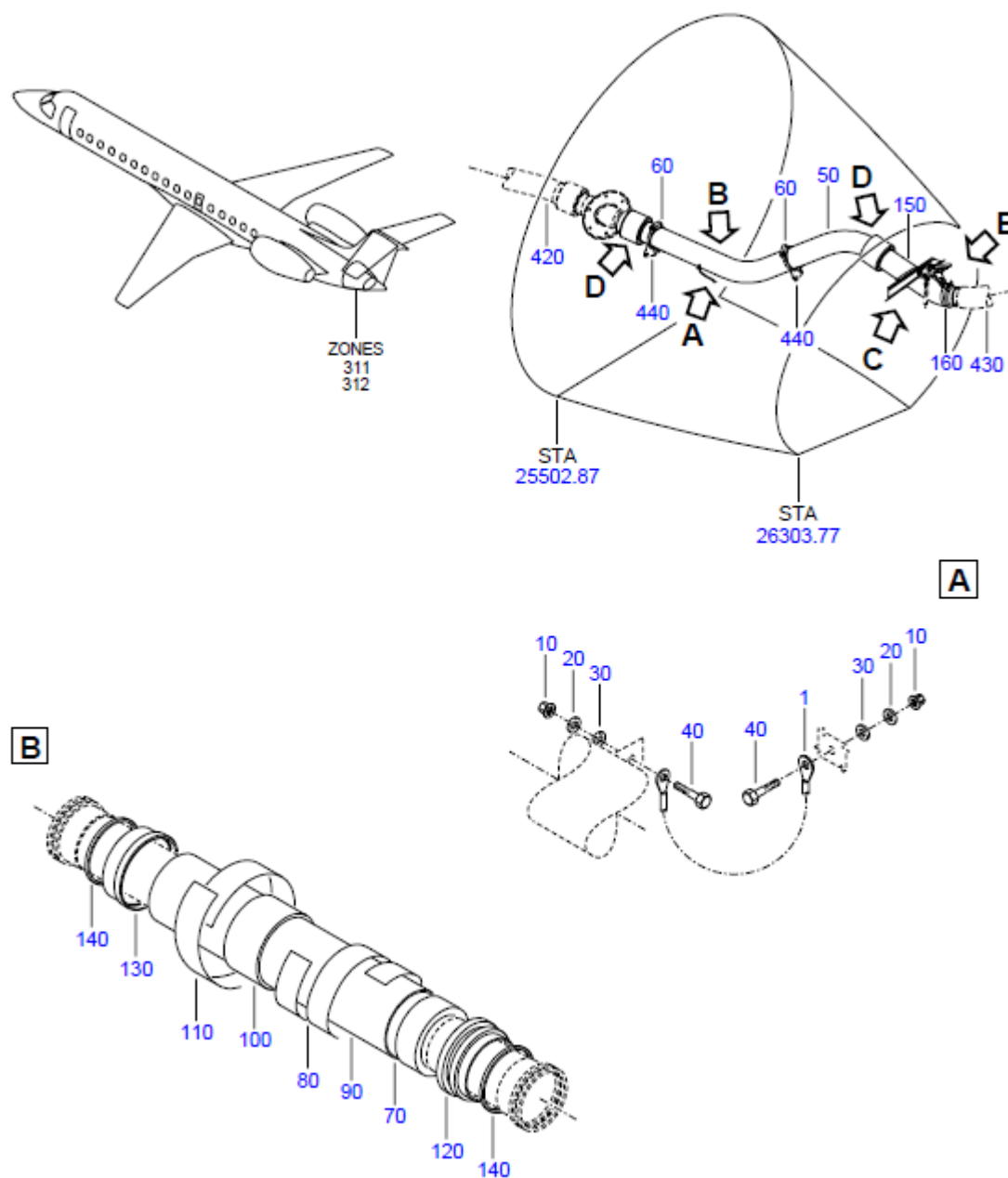
FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
410			SUPPORTS INSTL ENGINE BLEED, BTW FR 74 AND FR 80		REF
420			SEE FIGURE 36-00-00-82		REF
					
			APU MOUNTING INSTL, REAR FUSLG II (SEE CHAPTER 49)		
430	S30025SD		O-RING		4
440	T30025SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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Fig. 10A(SUP)
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FIGURE 11(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND FR 80
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Fig. 11(SUP)
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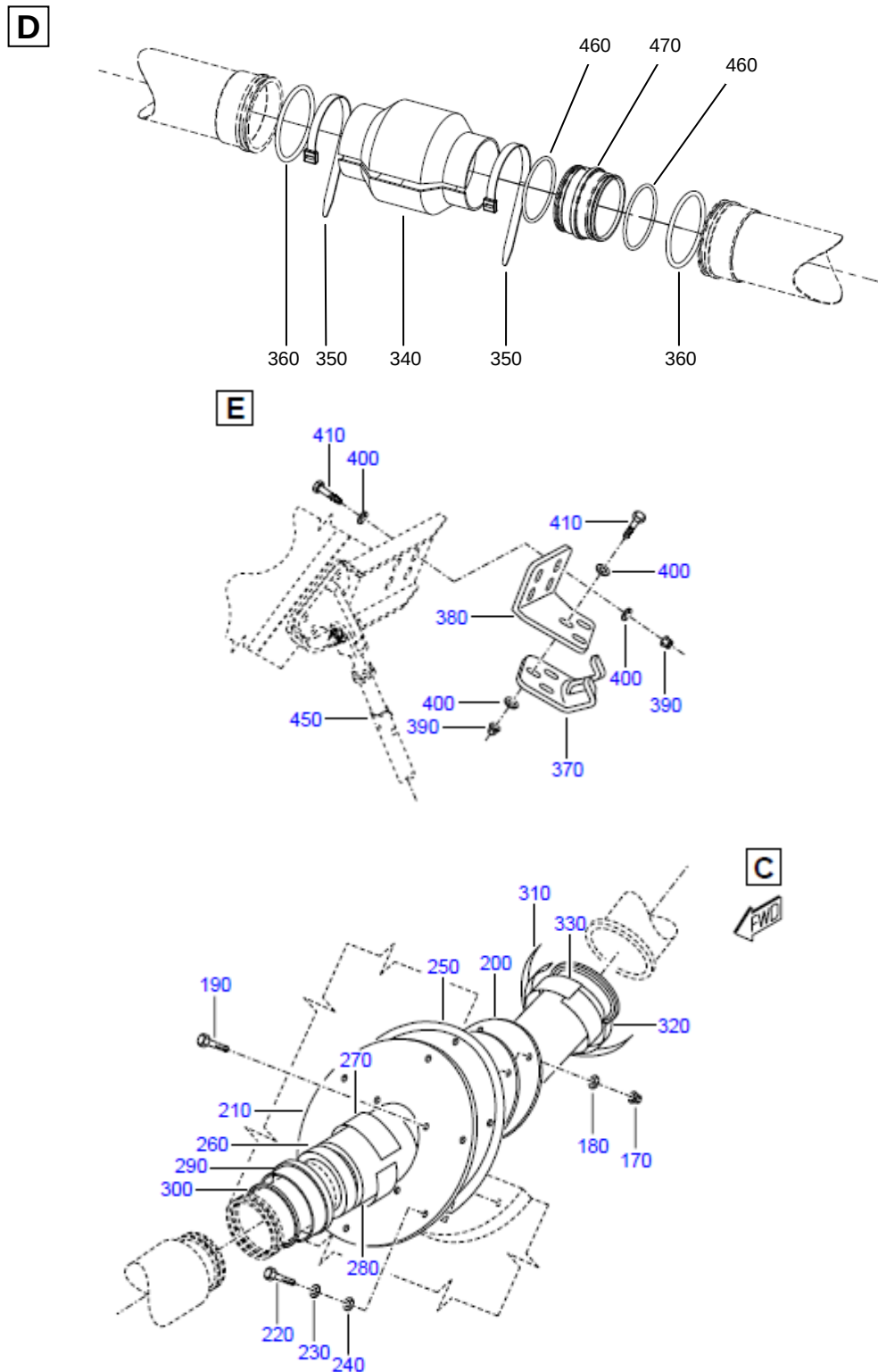


FIGURE 11(SUP) - ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND FR 80
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Fig. 11(SUP)
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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
11			ENGINE BLEED AIR SYS INSTL BTW FR 76 AND 80 FOR NHA SEE FIGURE 36-12-01-03	945-99999	REF
1	LN9284-1-5X200		.JUMPER ELECTRICAL BONDING SUPPLIER CODE: VD8442 ORDER TRUE P/N: LN9284-1,5X200		1
10	MS21042-06		ATTACHING PARTS .NUT HEXAGON-SELF LOCKING,STEEL SUPPLIER CODE: V98906		2
20	MS35338-136		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98906		2
30	NAS1149CN816R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C6L		2
40	NAS1096-1-6		.SCREW SUPPLIER CODE: V80205		2
			* * *		
50	145-49085-403		.TUBE ASSY ATTACHING PARTS		1
- 52	E8304277		.WIRE LOCK-SSTEEL SUPPLIER CODE: V98906 ORDER OVERLENGTH P/N: MS20995C20 ... OPTIONAL P/N: MS20995C20 OPTIONAL P/N: MS20995C20		AR
60	PE27021-7089		.CLAMP MULTIPLE SIZE TANGENTIAL WOR OPTIONAL P/N: BR064XX44-56 OPTIONAL P/N: FIF7089		2
			* * *		
70	KA0W00L6-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KA0W00L-6-16MM		AR
80	E7383814		.TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
90	E7383842		.TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
100	NA1000-1-6		.SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
110	PE43022-1		.LABEL		AR
120	CRA56325T		.COUPLER SUPPLIER CODE: V29372		1

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
130	NR56125T		.NUT POSITIVELOK TITANIUM 2,5 SUPPLIER CODE: V29372		1
140	RA30125T		.RING RETAINING SUPPLIER CODE: V29372		2
150	145-49086-405		.TUBE ASSY I/W P/N: 145-49086-803		1
150A	145-49086-803		.SERVICE BULLETIM TUBE ASSY I/W P/N: 145-49086-405		1
ATTACHING PARTS					
160	320C62-285M		.CLAMP ASSY-BOLT T HEAD SUPPLIER CODE: V00624		1
170	NAS1291C3M		.NUT HEXAGON-SELF LOCKING,CRES SUPPLIER CODE: V80205 OPTIONAL P/N: BH1291C3M OPTIONAL P/N: H42-3 OPTIONAL P/N: NAS1291C3M OPTIONAL P/N: PLH-53M OPTIONAL P/N: P32333		4
180	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C10L OPTIONAL P/N: NAS1149C0332R.		4
190	AN3C3A		.BOLT-HEXAGON HEAD CRES SUPPLIER CODE: V88044 * * *		4
200	145-34423-011		.FLANGE		1
210	145-22416-013		.FLANGE		1
ATTACHING PARTS					
220	AN3C4A		.BOLT-HEXAGON HEAD CRES SUPPLIER CODE: V88044		6
230	MS35338-138		.WASHER LOCK-SPRING,HELICAL,CRES SUPPLIER CODE: V98908		6
240	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN980C10L OPTIONAL P/N: NAS1149C0332R. * * *		6
250	145-22415-009		.SEAL		1
260	KA0W00L8-16MM		.INSULATING BLANKET TYPE 1, GRADE 6 SUPPLIER CODE: VBABCO ORDER TRUE P/N: KAOWOOL-8-16MM		AR

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
270	E7363814		..TAPE POLYIMIDE,20MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/20 . OPTIONAL P/N: KB46/20 LM: TAPE,POLYIMIDE,20MM		AR
280	E7363842		..TAPE POLYIMIDE,50MM-REINFORCED,SILI ORDER OVERLENGTH P/N: KB46/50 . OPTIONAL P/N: KB46/50 LM: TAPE,POLYIMIDE,50MM		AR
290	NR56125T		..NUT POSITIVELOK TITANIUM 2,5 SUPPLIER CODE: V29372		1
300	RA30125T		..RING RETAINING SUPPLIER CODE: V29372		1
310	E8125651		..TAPE TEFLON,SIZE 4-MOORING,TYPE III ORDER OVERLENGTH P/N: AA52082-A-4 ... OPTIONAL P/N: AA52082-A-4 OPTIONAL P/N: AA52082-A-4 . OPTIONAL P/N: AA52082-A-4 . OPTIONAL P/N: 15TOF13X .		AR
320	E8126649		..RIBBON GLASS FIBER, 25MM ORDER OVERLENGTH P/N: 25/0,18 .. OPTIONAL P/N: 25/0,18 OPTIONAL P/N: 25/0,18 .		AR
330	NA1000-1-6		..SHEET HYDRAULIC CARDBOARD,1.6MM-ARA SUPPLIER CODE: VASBRT ORDER TRUE P/N: NA-1000-1.6 LM: AR		AR
- 330A	PE15018-3		..HYDRAULIC CARDBOARD 1.6MM SUPPLIER CODE: VASBRT		AR
340	713463-13		..COVER SUPPLIER CODE: V70628 OPTIONAL P/N: 4002-S		2
			ATTACHING PARTS		
350	PLT4SC76		..CABLE TIE FOR HARNESS -NYLON SUPPLIER CODE: V96906 ORDER TRUE P/N: PLT4S-C76 OPTIONAL P/N: PLT4S-M76 OPTIONAL P/N: TYZ28M IW P/N: 600-052		4
350A	600-052		..BAND-CLAMPING SSTEEL SUPPLIER CODE: VS0123 IW P/N: PLT4S-C76		4
			* * *		
360	403039-25		..O'RING SUPPLIER CODE: V08118 IW P/N: S2U2-230		4

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

-ITEM NOT ILLUSTRATED

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	USAGE RANGE	UNITS PER ASSY
360A	S2U2-230		.O'RING SUPPLIER CODE: V29372 OPTIONAL P/N: AS568-230 OPTIONAL P/N: AS568-230 Z7257 OPTIONAL P/N: S2U2230 OPTIONAL P/N: S2U230 OPTIONAL P/N: S2U3-230 OPTIONAL P/N: V8545A7257-230 OPTIONAL P/N: 2-230 IW P/N: 403039-25		4
370	140-04328-003		.SUPPORT		1
380	140-04328-001		.SUPPORT		1
ATTACHING PARTS					
390	NAS1291C3M		.NUT HEXAGON-SELF LOCKING,CRES SUPPLIER CODE: V80205 OPTIONAL P/N: BH1291C3M OPTIONAL P/N: H42-3 OPTIONAL P/N: NAS1291C3M OPTIONAL P/N: PLH-53M OPTIONAL P/N: P32333		7
400	NAS1149C0332R		.WASHER FLAT-CRES SUPPLIER CODE: V80205 OPTIONAL P/N: AN960C10L OPTIONAL P/N: NAS1149C0332R.		14
410	NAS8403A5		.BOLT SUPPLIER CODE: V80205		7
* * *					
420			ENGINE BLEED AIR SYS INSTL BTW FR 74 AND 76 SEE FIGURE 36-18-00-01		REF
430			VALVE INSTL APU BLEED, APU MODEL 40C14 SEE FIGURE 36-12-01-03		REF
440			SUPPORTS INSTL ENGINE BLEED, BTW FR 74 AND FR 80 SEE FIGURE 36-00-00-82		REF
450			 APU MOUTING INSTL, REAR FUSLG II (SEE CHAPTER 49)		REF
460	S30025SD		O-RING		4
470	T30025SD		SLEEVE		2

ENGINE BLEED AIR SYS INSTL, BTW FR 76 AND 80

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