



AIRCRAFT
MAINTENANCE MANUAL

FUSELAGE EXTERNAL ACCESS DOORS AND PANELS - COMPONENT LOCATION

EFFECTIVITY: ACFT MODEL(S) EMB-135

1. General

- A. This section gives the access doors and panels of major zones 100 and 200 of the fuselage outside.



EMB145 - EMB135

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EFFECTIVITY: ACFT MODEL(S) EMB-135

2. List of Equipment and Components

CAUTION: BE CAREFUL WHEN YOU GET ACCESS TO THE FORWARD ELECTRONIC COMPARTMENT, NOT TO LEAN ON THE PITOT LINE. DAMAGE TO THE ANEMOMETRIC SYSTEM CAN OCCUR.

- A. Table 101 gives the equipment and components to which you can get access through the access doors and panels at EMB-135ER models.

Table 101 - MAJOR ZONES 100 AND 200 - FUSELAGE OUTSIDE

DOOR OR PANEL IDENTIFICATION NUMBER		TYPE OF ACCESS	EQUIPMENT/COMPONENTS
LEFT	RIGHT		
113AZ (Figure 101)		Access panel	AC generation inverter, Windshield wiper control, Electronic compartment shutoff valve, DC lamp dimmers
113BZ (Figure 101)		Access panel	-
113CZ (Figure 101)		Door	Fwd electronic compartment
113DL (Figure 102)		Door	Battery compartment, Battery relay boxes
113EL (Figure 102)		Door	External power receptacle and ramp interphone
	114AZ (Figure 101)	Access panel	Electronic compartment shutoff valve and inverters
	114BZ (Figure 101)	Access panel	Backup relay box, Backup battery
	114CR (Figure 102)	Door	Landing gear hydraulic system, Main door hydraulic system
123AL (Figure 102)		Door	Main door closing control. ^[1] External steering disengagement switch ^[2]
123BL (Figure 101)		Door	Autopilot servos of the aileron and elevator, Stall warning computer, Air conditioning digital temperature controller, Pedal assembly and transducers, Bellcranks, Torque tubes of elevator and rudder controls, Stick pusher servo motor, Avionics power diode box
	124AR (Figure 102)	Door	Oxygen external charging panel
155BZ (Figure 103)	156BZ (Figure 104)	Access panel	Electrical fuel pumps, Flap valves, Fuel low level sensor, Fuel temperature sensor, Suction check valve, Fuel tank unit, Motive flow flap valve, Motive flow line, Fueling fuel line, Feed fuel line, Vent valve line, Manifold, Fuel drain valve

[1] Aircraft with airstairs door.

[2] POST-MOD. [S.B.145-32-0057](#).

Table 101 - MAJOR ZONES 100 AND 200 - FUSELAGE OUTSIDE (Continued)

DOOR OR PANEL IDENTIFICATION NUMBER		TYPE OF ACCESS	EQUIPMENT/COMPONENTS
LEFT	RIGHT		
155CZ (Figure 103)	156CZ (Figure 104)	Access panel	Electrical fuel pumps, Flap valves, Fuel low level sensor, Fuel temperature sensor, Suction check valve, Fuel tank unit, Motive flow flap valve, Motive flow line, Fueling fuel line, Feed fuel line, Vent valve line, Manifold, Fuel drain valve
155DZ (Figure 107)	156DZ (Figure 108)	Access panel	Wheel brake normal hydraulic tubing, Aileron system 1 and 2 hydraulic tubing, air speed brake hydraulic tubing, spoiler hydraulic tubing, landing gear extension/retraction hydraulic tubing
155EZ (Figure 107)	156EZ (Figure 108)		
155FZ (Figure 107)	156FZ (Figure 108)	Access panel	Engine/APU fuel lines, Engine/APU fuel lines shroud drain line, Elevator and rudder control cables, Wing attachment points
155GZ (Figure 107)	156GZ (Figure 108)	Access panel	
155KZ (Figure 107)	156KZ (Figure 108)	Access panel	Engine/APU fuel lines, Engine/APU fuel lines shroud drain line, Elevator and rudder control cables, Wing attachment points, Free-fall bellcrank
155LZ (Figure 107)	156LZ (Figure 108)	Access panel	Engine/APU fuel lines, Engine/APU fuel lines shroud drain line, Elevator and rudder control cables, Wing attachment points
155MZ (Figure 107)	156MZ (Figure 108)	Access panel	Elevator and rudder control cables, FDR triaxial accelerometer, Free-fall bellcrank
155QZ (Figure 107)	156QZ (Figure 108)	Access panel	Spar 3 - lower skin attachments
	191AR (Figure 110)	Door	Ground air conditioning connection
	191BR [4] (Figure 110)	Door	Fuel refueling
191CL (Figure 109)	191DR (Figure 110)	Access panel	Wing inspection light
191EL (Figure 109)	191FR (Figure 110)	Access panel	Air conditioning pack, Ram-air check valve, Low pressure switch and overpressure switch of the wing A/I system
191GL [4] (Figure 109)		Access panel	Ram-air Naca intake, Ram air valve
191HL (Figure 109)	191JR (Figure 110)	Access panel	Emergency light
191KL (Figure 109)	191LR (Figure 110)	Access panel	Air conditioning pack valve, Pack overpressure switch
191ML (Figure 109)	191NR (Figure 110)	Access panel	Air conditioning heat exchanger air outlet
191ZB [4] (Figure 109)		Fairing	Air conditioning heat exchanger air outlet, Air conditioning pack valve, Pack overpressure switch, Emergency light, Ram-air Naca intake, Ram air valve, Air conditioning pack, Ram-air check valve, Low pressure switch and overpressure switch of the wing A/I system, Wing inspection light, Fuel refueling, Ground air conditioning connection

[4] Before you close this access panel, make sure that the fuel quantity indicating harness is in good condition. Refer to TASK 28-41-00-210-801-A.

Table 101 - MAJOR ZONES 100 AND 200 - FUSELAGE OUTSIDE (Continued)

DOOR OR PANEL IDENTIFICATION NUMBER		TYPE OF ACCESS	EQUIPMENT/COMPONENTS
LEFT	RIGHT		
192AL ^[4] (Figure 109)	192BR ^[4] (Figure 110)	Access panel	Fuel shutoff valve engine and APU, Fuel thermal relieve valve, Fuel crossfeed sov, Defueling fuel sov, Control cables, Ground spoiler valve, Hydraulic system priority valve, Fuel vent tubing, Aileron solenoid manifold, Speed brake valve, Fuel refueling tube, Brake sov and control valves, Fuel line shroud drain, Differential pressure switch of the wing A/I system, Hydraulic system line 1, Hydraulic system line 2, Vent valve line
192CL (Figure 109)	192DR (Figure 110)	Door	Fuel tank drain valve
192EL (Figure 109)		Access panel	Strobe beacon light
192LB ^[4] (Figure 109)		Fairing	Strobe beacon light, Fuel tank drain valve, Fuel shutoff valve engine and APU, Fuel thermal relieve valve, Fuel crossfeed sov, Defueling fuel sov, Control cables, Ground spoiler valve, Hydraulic system priority valve, Fuel vent tubing, Aileron solenoid manifold, Speed brake valve, Fuel refueling tube, Brake sov and control valves, Fuel line shroud drain, Differential pressure switch of the wing A/I system, Hydraulic system line 1, Hydraulic system line 2, Vent valve line
193AL (Figure 109)		Access panel	FDMU, FECU, Pneumatic bleed tubing, Hydraulic tubing, Fuselage drain, Temperature signal conditioners, wheel brake emergency hydraulic tubing
193BL (Figure 109)	193CR (Figure 110)	Access panel	Hydraulic compartment
193DL (Figure 109)	193GR (Figure 110)	Door	Hydraulic filter
193EL (Figure 109)	193HR (Figure 110)	Door	Hydraulic oil level sight glass
193FL (Figure 109)	193JR (Figure 110)	Door	Hydraulic system service
193LL (Figure 109)		Access panel	Bleed duct
	193MR (Figure 110)	Access panel	Waste service panel
193ABB (Figure 109)		Fairing	Potable water service, Waste service panel, Bleed duct, Hydraulic system service, FDMU, FECU, Pneumatic bleed tubing, Hydraulic tubing, Fuselage drain, Temperature signal conditioners, wheel brake emergency hydraulic tubing, hydraulic compartment, hydraulic filter, Hydraulic oil level sight glass
195AL (Figure 109)	194AR (Figure 110)	Access panel	Pneumatic duct junction
195BL (Figure 109)	194BR (Figure 110)	Access panel	Emergency light
195CL (Figure 109)	194CR (Figure 110)	Access panel	Pneumatic duct junction
195EL (Figure 109)	194ER (Figure 110)	Fairing	Pneumatic duct junction

[4] Before you close this access panel, make sure that the fuel quantity indicating harness is in good condition. Refer to TASK 28-41-00-210-801-A.

Table 101 - MAJOR ZONES 100 AND 200 - FUSELAGE OUTSIDE (Continued)

DOOR OR PANEL IDENTIFICATION NUMBER		TYPE OF ACCESS	EQUIPMENT/COMPONENTS
LEFT	RIGHT		
213AL (Figure 102)	214AR (Figure 102)	Access panel	Electronic compartment ventilation outlet
213BL (Figure 102)	214BR (Figure 102)	Access panel	AOA sensor
213CL (Figure 102)	214CR (Figure 102)	Access panel	Harness ice detector
	272BR (Figure 113)	Door	Ramp interphone
	272CR (Figure 113)	Door	Ground pneumatic engine starting
	272DR (Figure 113)	Door	FADECs, FDR, QAR, CVR, DAU, HSCU, HF antenna, ESU, EVM, P0 sensors, AFDAU. ^[3] Electropneumatic outflow valve and filter, Pneumatic outflow valve, Auto-pilot rudder servo, Pneumatic cross-bleed valve, APU pneumatic tubing, APU fuel line, Horizontal stabilizer anti-icing tubing, Hydraulic tubing, Blow-out panel, Fire extinguishing tubing, Bottles and discharging piping of the baggage compartment fire extinguishing system, RAT II, V/UHF Transceiver (if installed), V/UHF Filter (if installed)

[3] Aircraft with AFDAU.

CAUTION: BE CAREFUL WHEN YOU GET ACCESS TO THE FORWARD ELECTRONIC COMPARTMENT, NOT TO LEAN ON THE PITOT LINE. DAMAGE TO THE ANEMOMETRIC SYSTEM CAN OCCUR.

- B. Table 102 gives the equipment and components to which you can get access through the access doors and panels at EMB-135LR model.

Table 102 - MAJOR ZONES 100 AND 200 - FUSELAGE OUTSIDE

DOOR OR PANEL IDENTIFICATION NUMBER		TYPE OF ACCESS	EQUIPMENT/COMPONENTS
LEFT	RIGHT		
113AZ (Figure 101)		Access panel	AC generation inverter, Windshield wiper control, Electronic-compartment shutoff valve, DC lamp dimmers
113BZ (Figure 101)		Access panel	-
113CZ (Figure 101)		Door	Fwd electronic compartment
113DL (Figure 102)		Door	Battery compartment, Battery relay boxes
113EL (Figure 102)		Door	External power receptacle and ramp interphone
	114AZ (Figure 101)	Access panel	Electronic compartment shutoff valve and inverters
	114BZ (Figure 101)	Access panel	Backup relay box, Backup battery
	114CR (Figure 102)	Door	Landing-gear hydraulic system, Main-door hydraulic system

[3] Aircraft with AFDAU.

Table 102 - MAJOR ZONES 100 AND 200 - FUSELAGE OUTSIDE (Continued)

DOOR OR PANEL IDENTIFICATION NUMBER		TYPE OF ACCESS	EQUIPMENT/COMPONENTS
LEFT	RIGHT		
123AL (Figure 102)		Door	Main door closing control. ^[1] External steering disengagement switch ^[2]
123BL (Figure 101)		Door	Autopilot servos of the aileron and elevator, Stall warning computer, Air-conditioning digital temperature controller, Pedal assy and transducers, Bellcranks, Torque tubes of elevator and rudder controls, Stick-pusher servo motor, Avionics power diode box
	124AR (Figure 102)	Door	Oxygen external charging panel
155BZ (Figure 105)	156BZ (Figure 106)	Access panel	Electrical fuel pumps, Flap valves, Dump valve
155CZ (Figure 105)	156CZ (Figure 106)	Access panel	Electrical fuel pumps, Flap valves
155DZ ^[4] (Figure 107)	156DZ ^[4] (Figure 108)	Access panel	Wheel-brake normal hydraulic tubing, Aileron system 1 and 2 hydraulic tubing, airspeed brake hydraulic tubing, spoiler hydraulic tubing, Landing gear extension/retraction hydraulic tubing
155EZ ^[4] (Figure 107)	156EZ ^[4] (Figure 108)		
155FZ (Figure 107)	156FZ (Figure 108)	Access panel	Engine/APU fuel lines, Engine/APU fuel lines shroud drain, Elevator and rudder control cables, Wing attachment points
155GZ (Figure 107)	156GZ (Figure 108)	Access panel	Engine/APU fuel lines, Engine/APU fuel-line shroud drain, Elevator and rudder control cables, Wing attachment points, Free-fall bellcrank
155KZ (Figure 107)	156KZ (Figure 108)	Access panel	Engine/APU fuel lines, Engine/APU fuel-line shroud drain, Elevator and rudder control cables, Wing attachment points, Free-fall bellcrank
155LZ (Figure 107)	156LZ (Figure 108)	Access panel	Engine/APU fuel lines, Engine/APU fuel-line shroud drain, Elevator and rudder control cables, Wing attachment points
155MZ (Figure 107)	156MZ (Figure 108)	Access panel	Elevator and rudder control cables, FDR triaxial accelerometer, Free-fall bellcrank
155NZ (Figure 105)	156NZ (Figure 106)	Access panel	Wing fuel tank
155QZ (Figure 107)	156QZ (Figure 108)	Access panel	Spar 3 - lower skin attachments
	191AR (Figure 112)	Door	Ground air conditioning connection
	191BR ^[4] (Figure 112)	Door	Fuel refueling
191CL (Figure 111)	191DR (Figure 112)	Access panel	Wing inspection light
191EL (Figure 111)	191FR (Figure 112)	Access panel	Air conditioning pack, Ram-air check valve, Low pressure switch and over-pressure switch of the wing A/I system
191GL ^[4] (Figure 111)		Access panel	Ram-air Naca intake, Ram air valve
191HL (Figure 111)	191JR (Figure 112)	Access panel	Emergency light
191KL (Figure 111)	191LR (Figure 112)	Access panel	Air-conditioning pack valve, Pack over-pressure switch
191ML (Figure 111)	191NR (Figure 112)	Access panel	Air-conditioning heat-exchanger air outlet

[1] Aircraft with airstairs door.

[2] POST-MOD. S.B.145-32-0057.

[3] Aircraft with AFDAU.

[4] Before you close this access panel, make sure that the fuel quantity indicating harness is in good condition. Refer to TASK 28-41-00-210-801-A.

Table 102 - MAJOR ZONES 100 AND 200 - FUSELAGE OUTSIDE (Continued)

DOOR OR PANEL IDENTIFICATION NUMBER		TYPE OF ACCESS	EQUIPMENT/COMPONENTS
LEFT	RIGHT		
191ZB ^[4] (Figure 111)		Fairing	Air-conditioning heat-exchanger air outlet, Air-conditioning pack valve, Pack overpressure switch, Emergency light, Ram-air Naca intake, Ram air valve, Air conditioning pack, Ram-air check valve, Low pressure switch and overpressure switch of the wing A/I system, Wing inspection light, Fuel refueling, Ground air conditioning connection
192AL ^[4] (Figure 111)	192BR ^[4] (Figure 112)	Access panel	Fuel shutoff-valve engine and APU, Fuel thermal relieve valve, Fuel crossfeed sov, Defueling fuel sov, Control cables, Ground-spoiler valve, Hydraulic-system priority valve, Fuel vent tubing, Aileron solenoid manifold, Speed brake valve, Fuel refueling tube, Brake sov and control valves, Fuel-line shroud drain, Differential pressure switch of the wing A/I system
192CL (Figure 111)	192DR (Figure 112)	Door	Fuel-tank drain valve
192EL (Figure 111)		Access panel	Strobe beacon light
192FL (Figure 111)	192GR (Figure 112)	Door	Drip stick
192HL (Figure 111)	192JR (Figure 112)	Door	Fuel wing stub drain valve
192LB ^[4] (Figure 111)		Fairing	Fuel wing stub drain valve, Drip stick, Strobe beacon light, Fuel-tank drain valve, Fuel shutoff-valve engine and APU, Fuel thermal relieve valve, Fuel crossfeed sov, Defueling fuel sov, Control cables, Ground-spoiler valve, Hydraulic-system priority valve, Fuel vent tubing, Aileron solenoid manifold, Speed brake valve, Fuel refueling tube, Brake sov and control valves, Fuel-line shroud drain, Differential pressure switch of the wing A/I system
193AL (Figure 111)		Access panel	FDMU, FECU, Pneumatic bleed tubing, Hydraulic tubing, Fuselage drain, wheel-brake emergency hydraulic tubing
193BL (Figure 111)	193CR (Figure 112)	Access panel	Hydraulic compartment
193DL (Figure 111)	193GR (Figure 112)	Door	Hydraulic filter
193EL (Figure 111)	193HR (Figure 112)	Door	Hydraulic-oil-level sight glass
193FL (Figure 111)	193JR (Figure 112)	Door	Hydraulic system service
193LL (Figure 111)		Access panel	Bleed duct
	193MR (Figure 112)	Access panel	Waste service panel
	193NR (Figure 112)	Door	Potable water service

[3] Aircraft with AFDAU.

[4] Before you close this access panel, make sure that the fuel quantity indicating harness is in good condition. Refer to TASK 28-41-00-210-801-A.

Table 102 - MAJOR ZONES 100 AND 200 - FUSELAGE OUTSIDE (Continued)

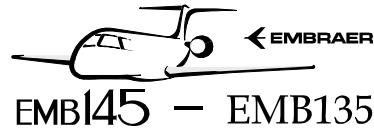
DOOR OR PANEL IDENTIFICATION NUMBER		TYPE OF ACCESS	EQUIPMENT/COMPONENTS
LEFT	RIGHT		
193ABB (Figure 111)		Fairing	Potable water service, Waste service panel, Bleed duct, Hydraulic system service, Hydraulic-oil-level sight glass, Hydraulic filter, Hydraulic compartment, FDMU, FECU, Pneumatic bleed tubing, Hydraulic tubing, Fuselage drain, wheel-brake emergency hydraulic tubing
195AL (Figure 111)	194AR (Figure 112)	Access panel	Pneumatic duct junction
195BL (Figure 111)	194BR (Figure 112)	Access panel	Emergency light
195CL (Figure 111)	194CR (Figure 112)	Access panel	Pneumatic duct junction
195EL (Figure 111)	194ER (Figure 112)	Fairing	Pneumatic duct junction
213AL (Figure 102)	214AR (Figure 102)	Access panel	Electronic-compartment ventilation outlet
213BL (Figure 102)	214BR (Figure 102)	Access panel	AOA sensor
213CL (Figure 102)	214CR (Figure 102)	Access panel	Harness ice detector
	272BR (Figure 113)	Door	Ramp interphone
	272CR (Figure 113)	Door	Ground pneumatic engine starting
	272DR (Figure 113)	Door	FADECs, FDR, QAR, CVR, DAU, HSCU, HF antenna, ESU, EVM, P0 sensors, AFDAU, Electropneumatic outflow valve and filter, Pneumatic outflow valve, Autopilot rudder servo, Pneumatic crossbleed valve, APU pneumatic tubing, APU fuel line, Horizontal stabilizer anti-icing tubing, Hydraulic tubing, Blow-out panel, Fire extinguishing tubing, Rat II, Bottles and discharging piping of the baggage compartment fire extinguishing system

[3] Aircraft with AFDAU.

3. Location of the Access Doors and Panels

A. The figures below give the location of the access doors and panels:

- [Figure 101](#) - Nose Landing Gear Compartment Access Doors and Panels
- [Figure 102](#) - Forward Fuselage External Access Doors and Panels
- [Figure 103](#) - Wing Stub Access Doors and Panels (LH) - Applicable to EMB-135ER model
- [Figure 104](#) - Wing Stub Access Doors and Panels (RH) - Applicable to EMB-135ER model
- [Figure 105](#) - Wing Stub Access Doors and Panels (LH) - Applicable to EMB-135LR model
- [Figure 106](#) - Wing Stub Access Doors and Panels (RH) - Applicable to EMB-135LR model
- [Figure 107](#) - Main Landing Gear Compartment Access Doors and Panels (LH)
- [Figure 108](#) - Main Landing Gear Compartment Access Doors and Panels (RH)
- [Figure 109](#) - Wing-to-Fuselage Attachment Fairing Access Doors and Panels (LH) - Applicable to EMB-135ER model



EMB145 - EMB135

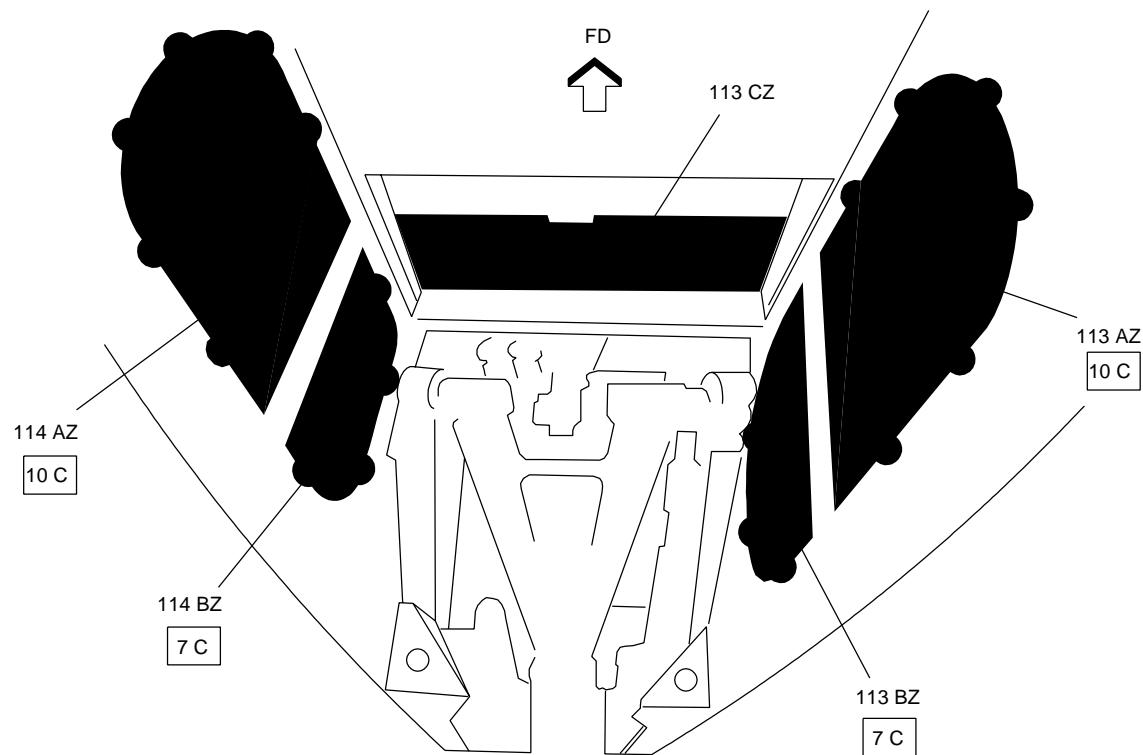
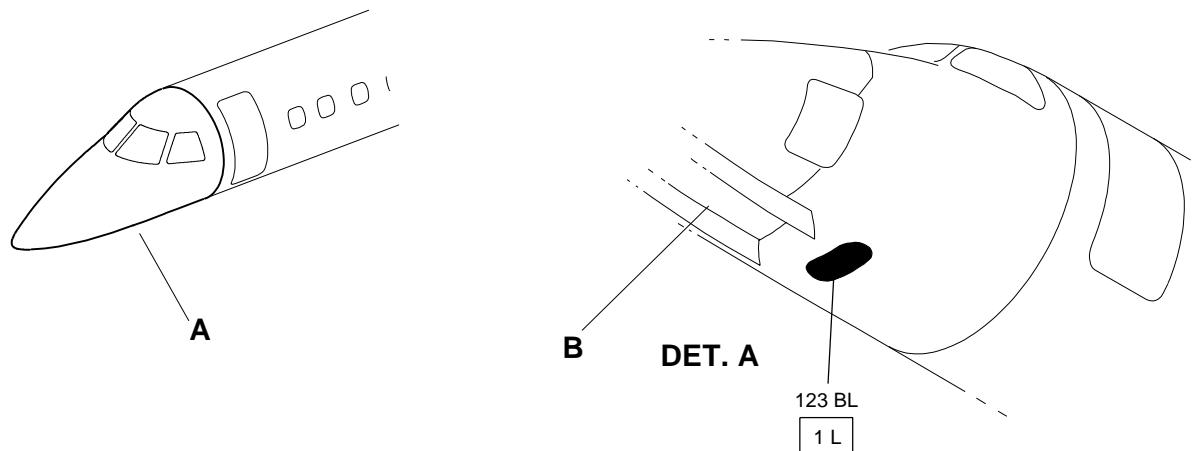
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- [Figure 110](#) - Wing-to-Fuselage Attachment Fairing Access Doors and Panels (RH) - Applicable to EMB-135ER model
- [Figure 111](#) - Wing-to-Fuselage Attachment Fairing Access Doors and Panels (LH) - Applicable to EMB-135LR model
- [Figure 112](#) - Wing-to-Fuselage Attachment Fairing Access Doors and Panels (RH) - Applicable to EMB-135LR model
- [Figure 113](#) - Rear Fuselage External Access Doors and Panels

EFFECTIVITY: ALL

Nose Landing Gear Compartment Access Doors and Panels

Figure 101



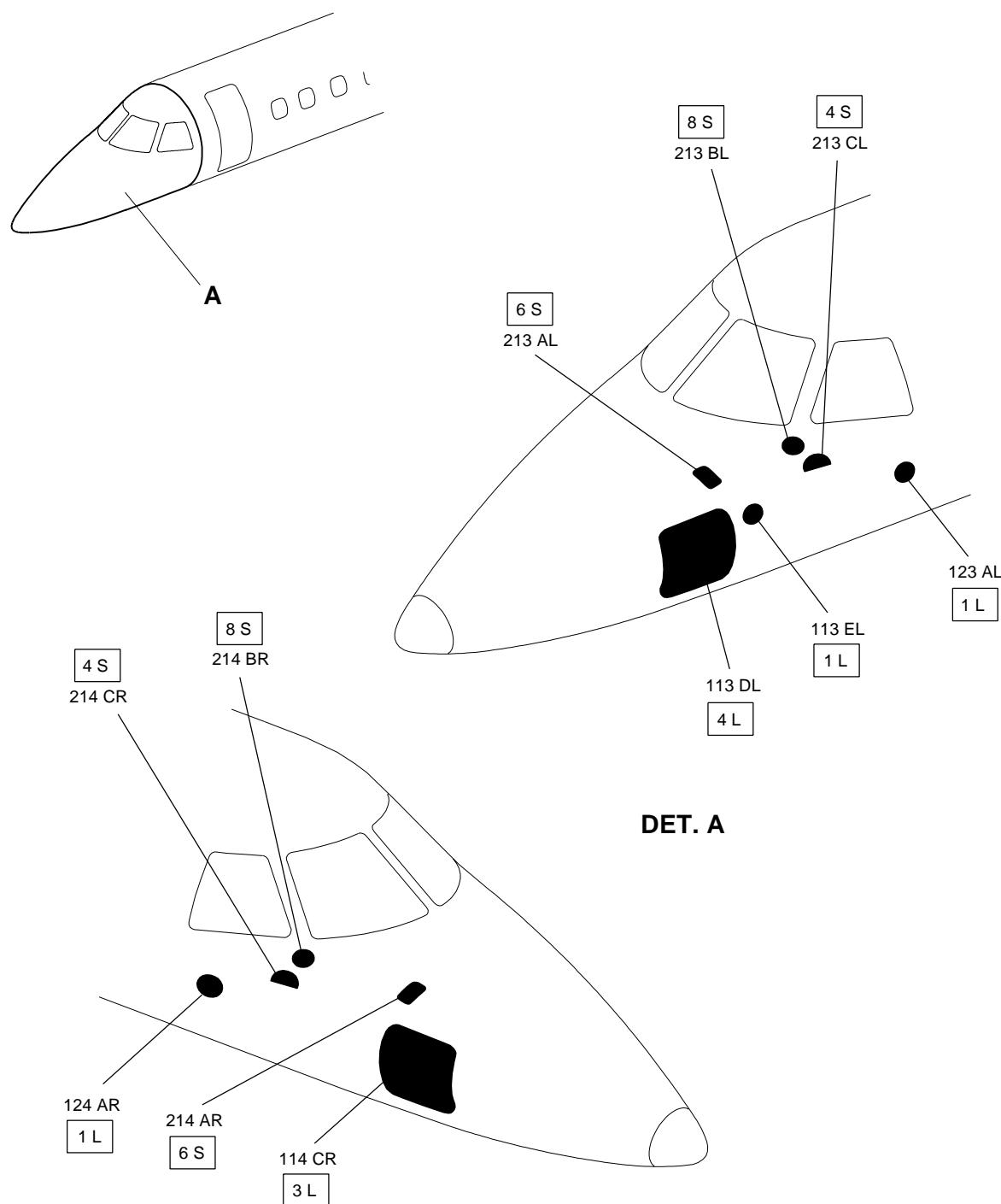
DET. B

145AMM060032.MCE A

EFFECTIVITY: ALL

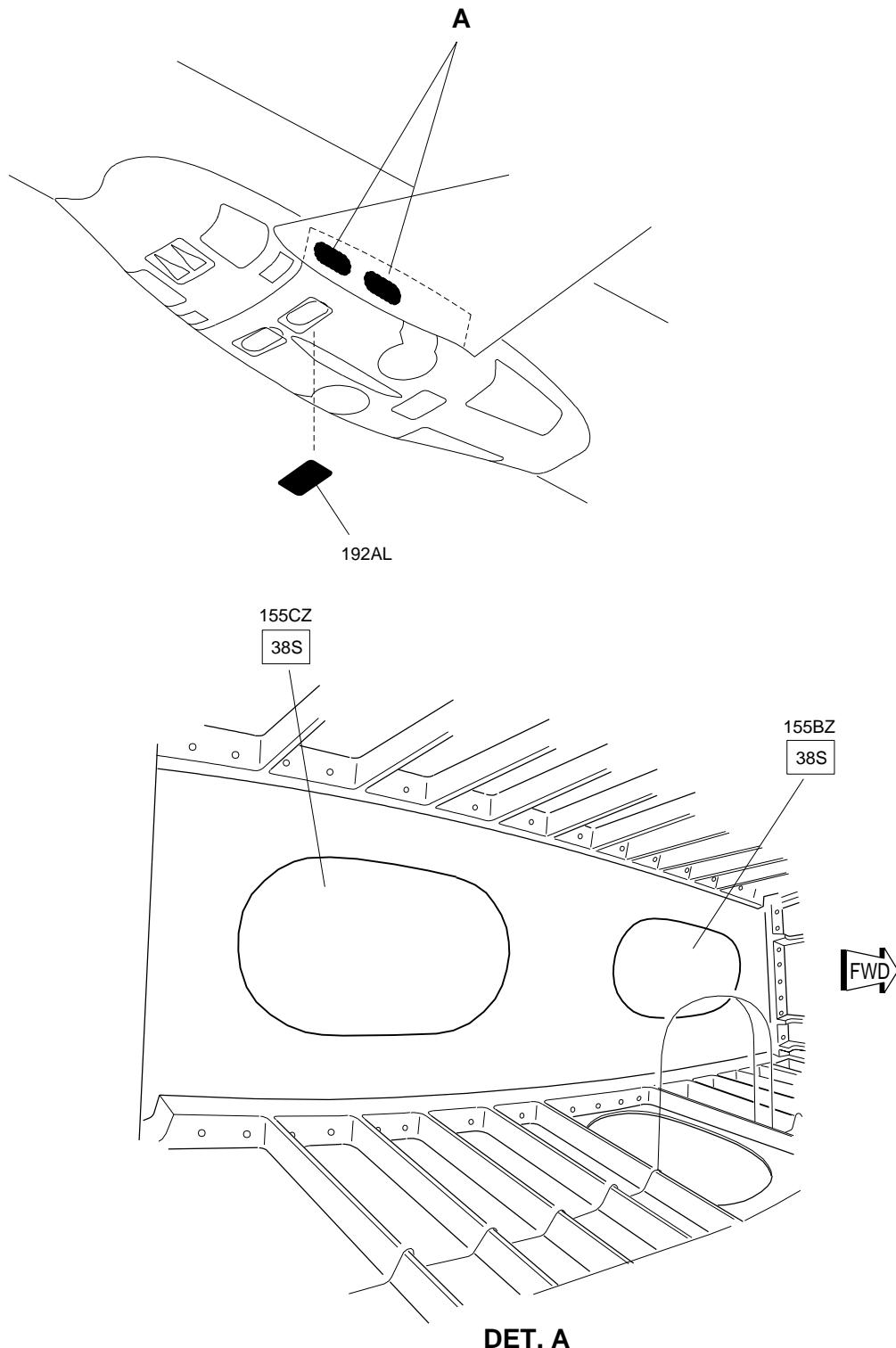
Forward Fuselage External Access Doors and Panels

Figure 102



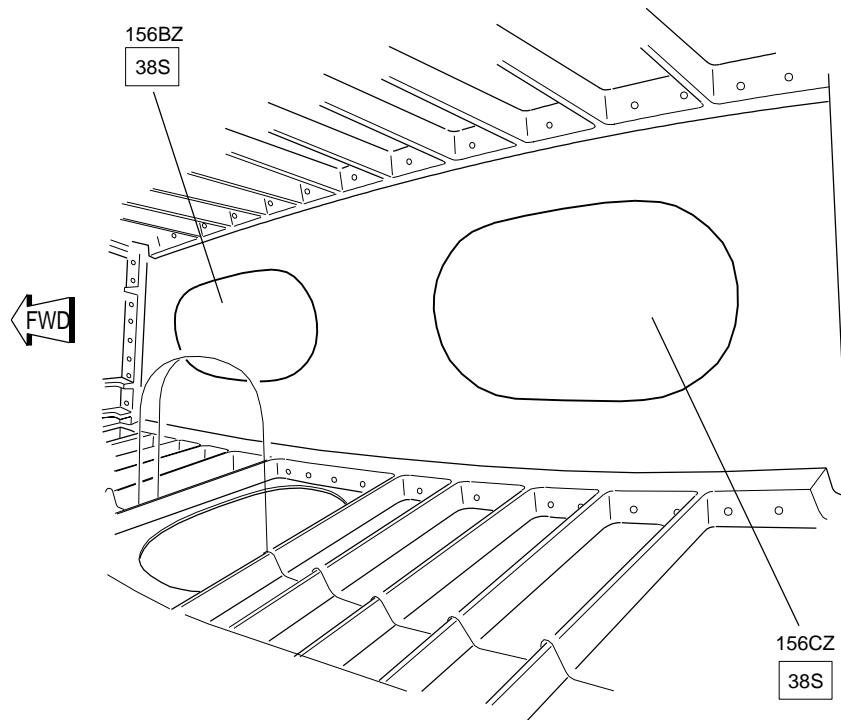
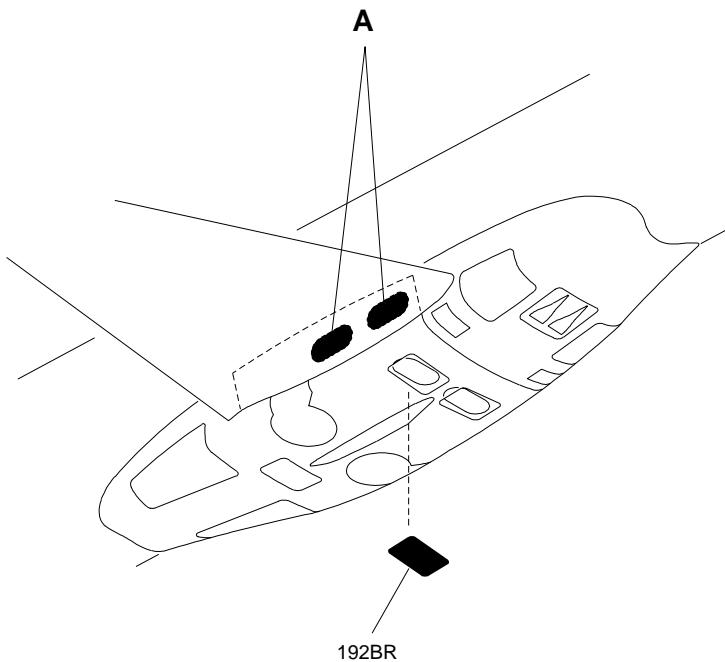
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EFFECTIVITY: EMB-135ER model
 Wing Stub Access Doors and Panels (LH)
 Figure 103



145AMM060030.MCE B

EFFECTIVITY: EMB-135ER model
Wing Stub Access Doors and Panels (RH)
Figure 104



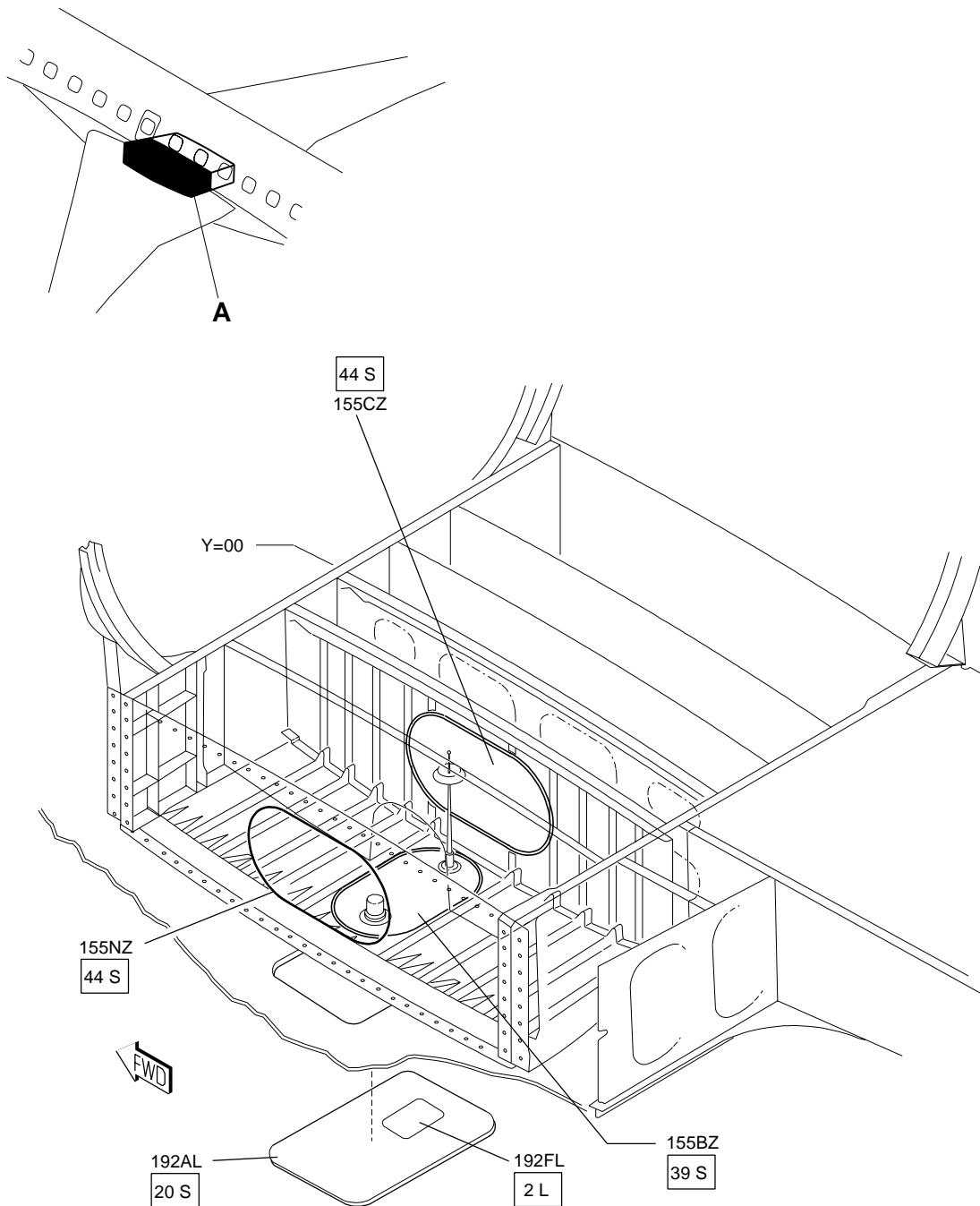
DET. A

145AMM060031.MCE B

EFFECTIVITY: EMB-135LR model

Wing Stub Access Doors and Panels (LH)

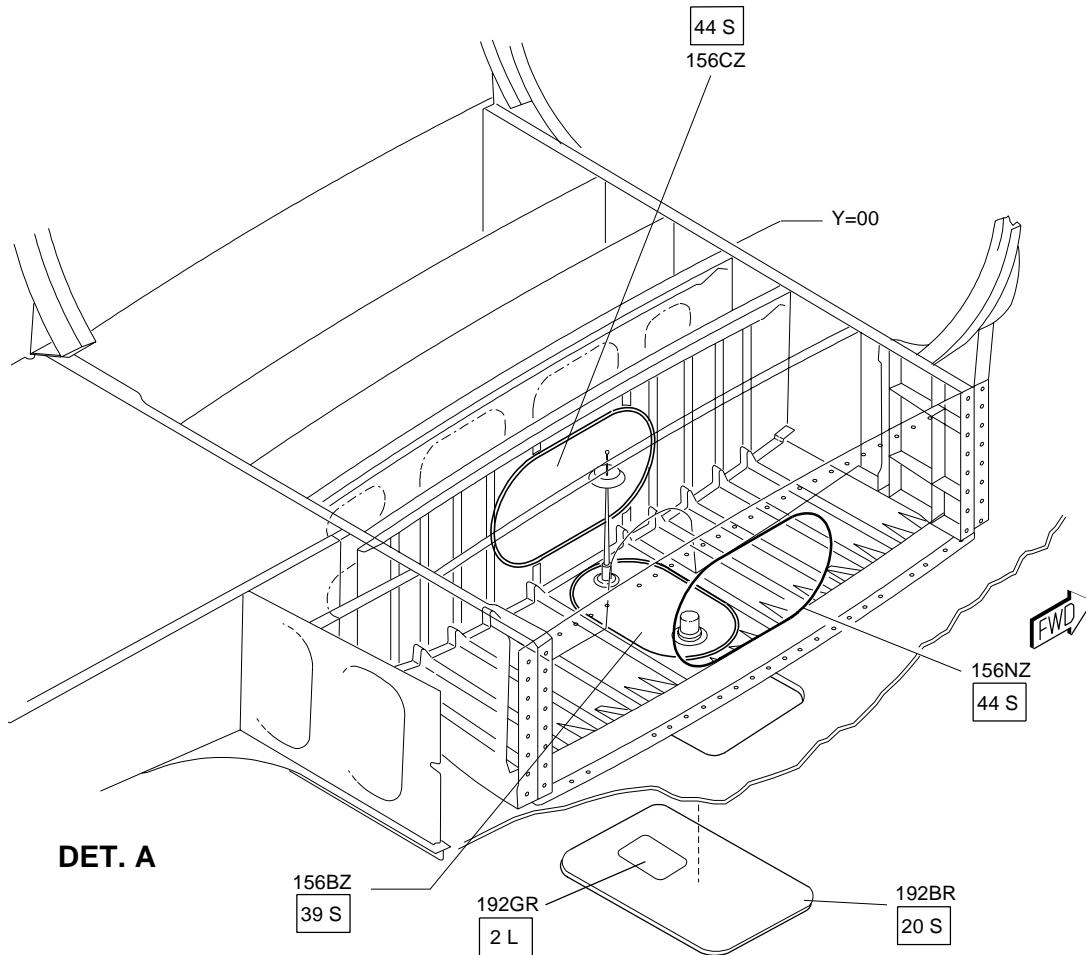
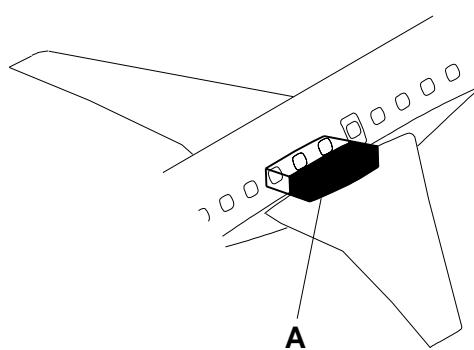
Figure 105



DET. A

145AMM060069A.MCE

EFFECTIVITY: EMB-135LR model
Wing Stub Access Doors and Panels (RH)
Figure 106

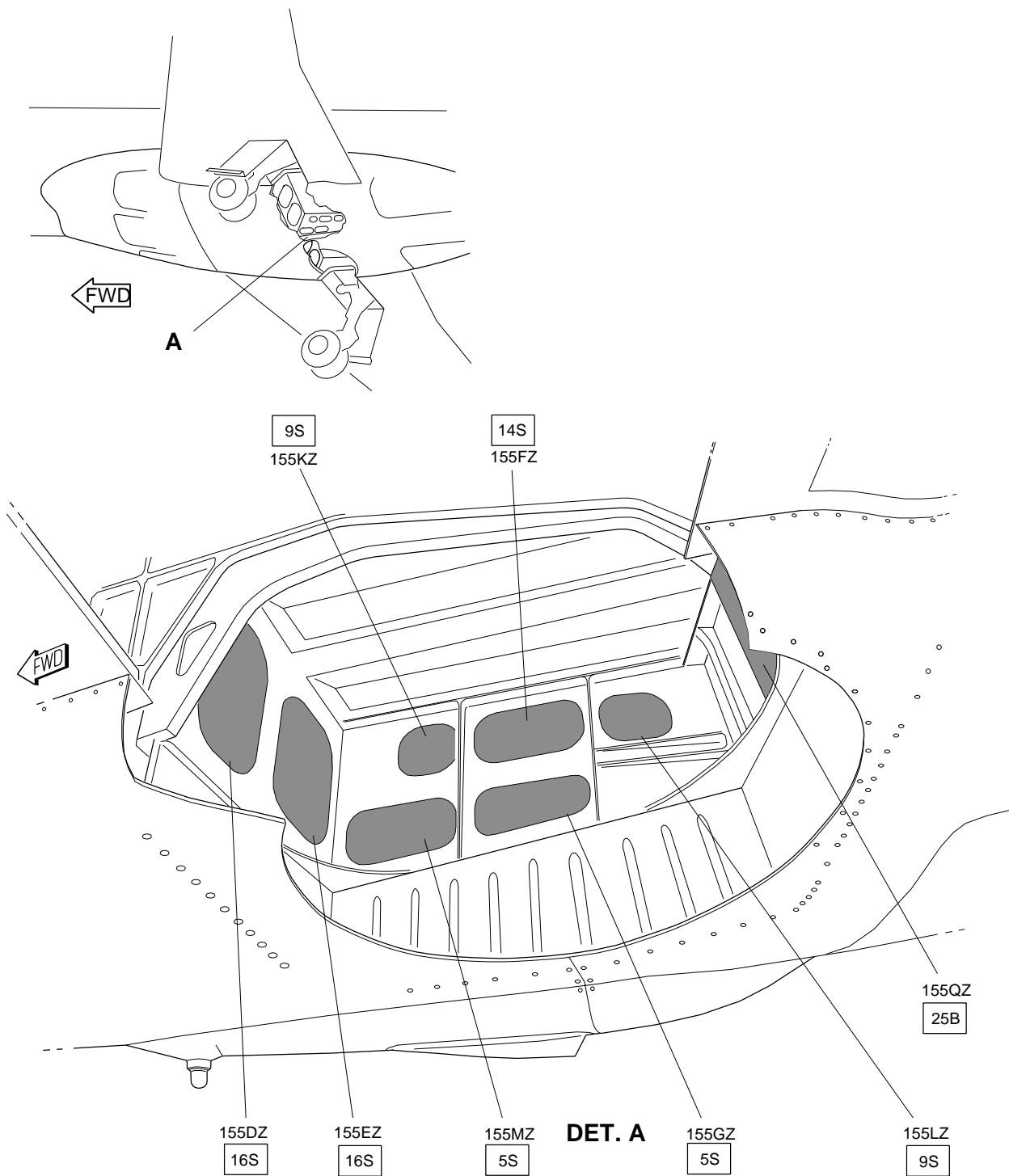


145AMM060070.MCE A

EFFECTIVITY: ALL

Main Landing Gear Compartment Access Doors and Panels (LH)

Figure 107

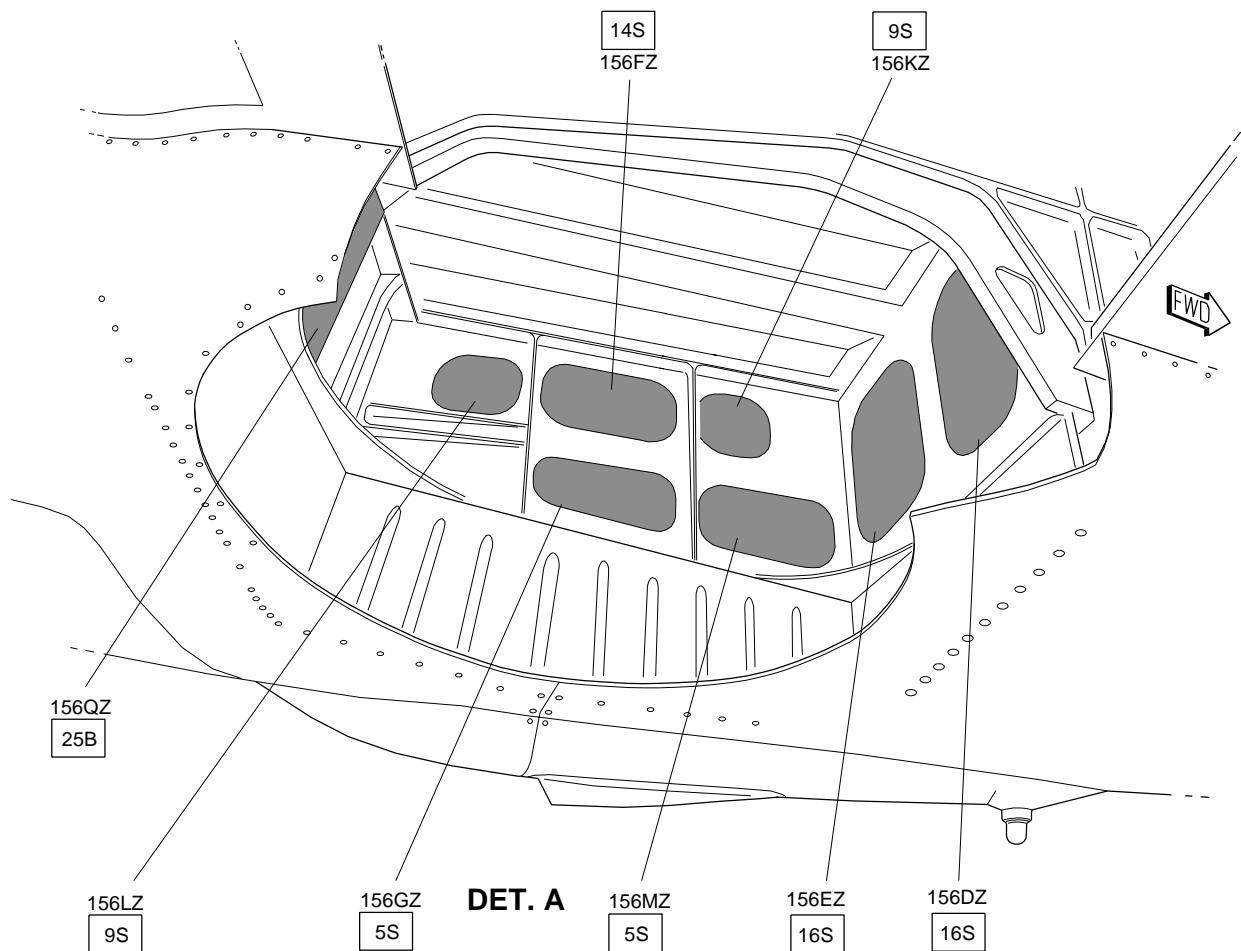
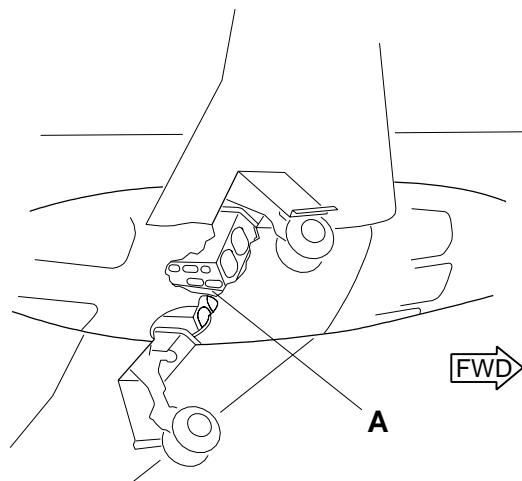


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EFFECTIVITY: ALL

Main Landing Gear Compartment Access Doors and Panels (RH)

Figure 108

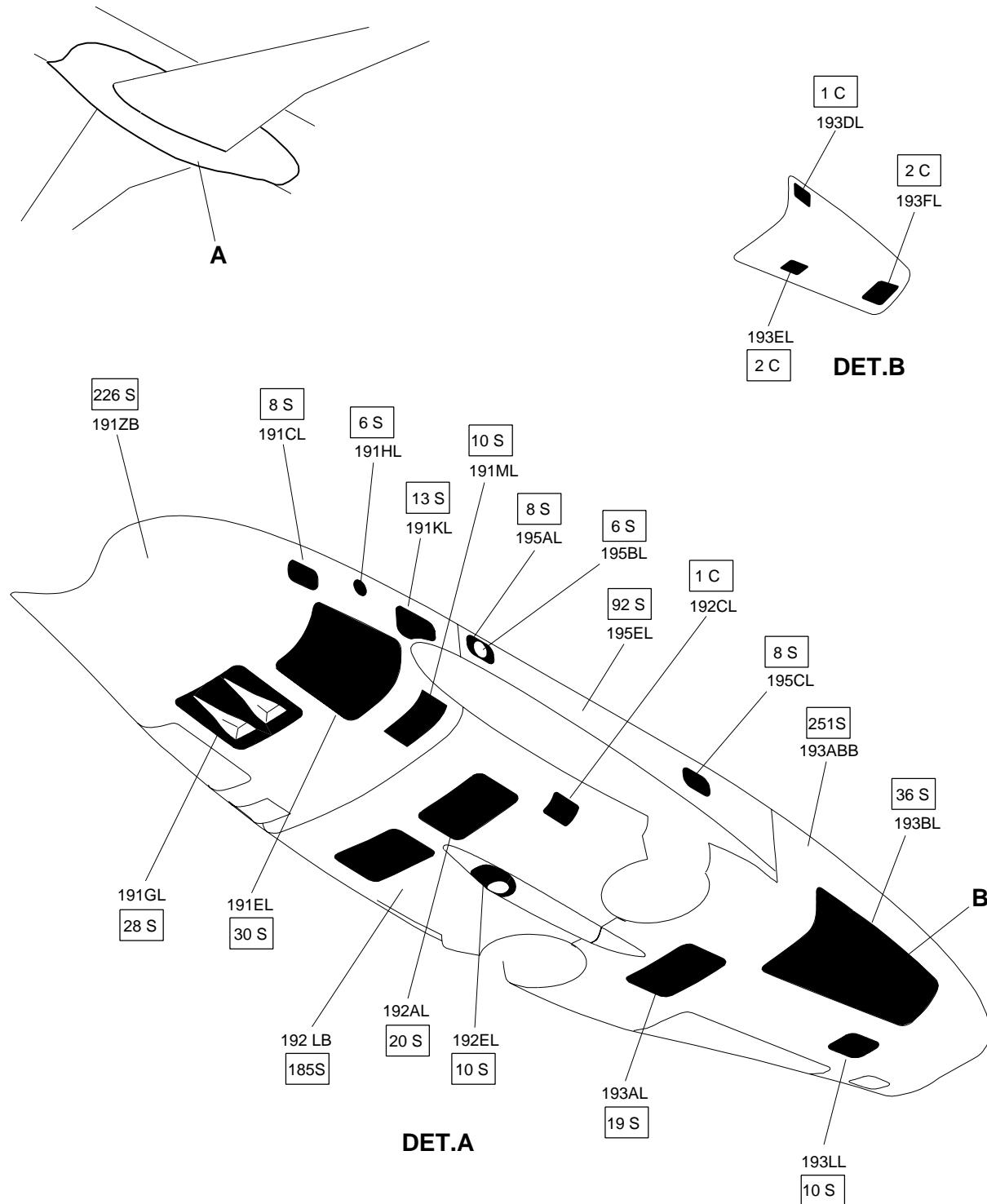


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EFFECTIVITY: EMB-135ER model

Wing-to-Fuselage Attachment Fairing Access Doors and Panels (LH)

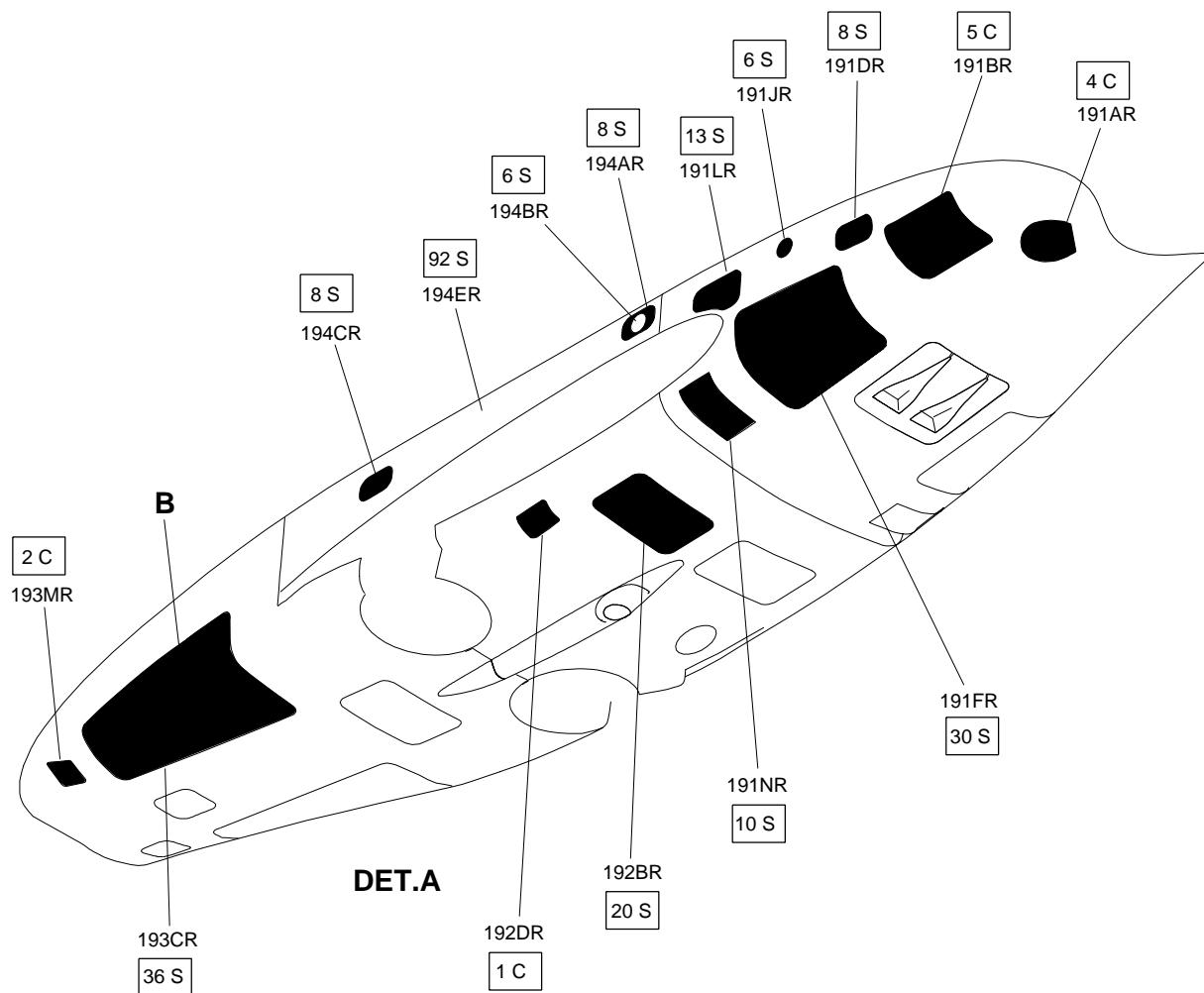
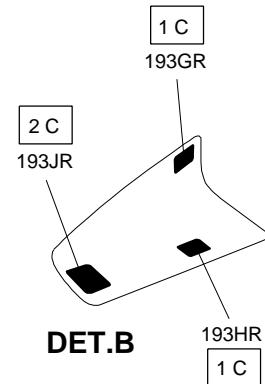
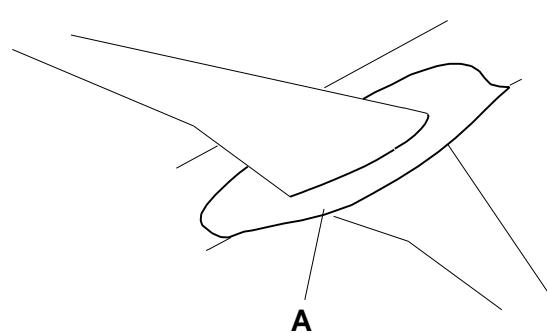
Figure 109



EFFECTIVITY: EMB-135ER model

Wing-to-Fuselage Attachment Fairing Access Doors and Panels (RH)

Figure 110

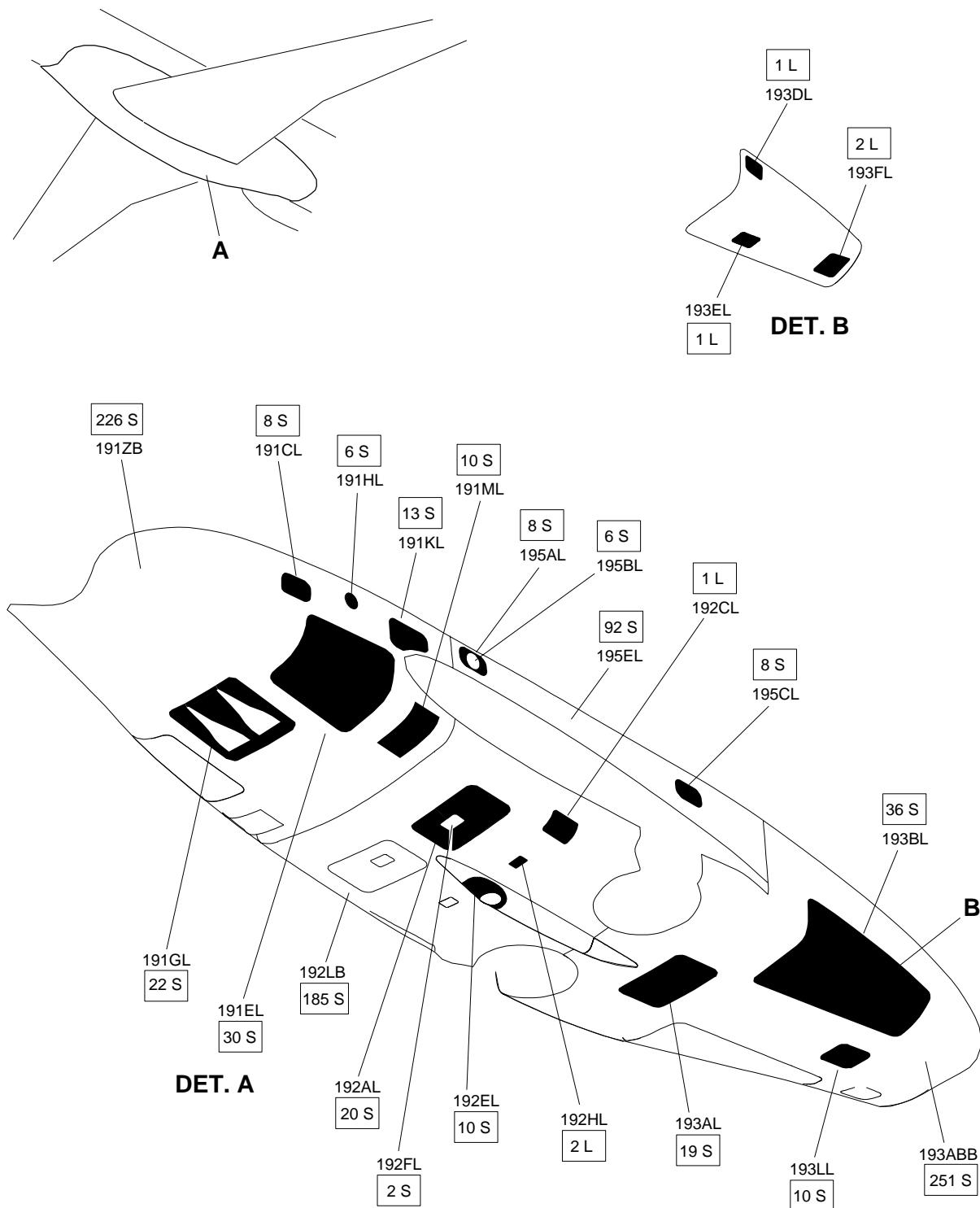


145AMM060036.MCE B

EFFECTIVITY: EMB-135LR model

Wing-to-Fuselage Attachment Fairing Access Doors and Panels (LH)

Figure 111

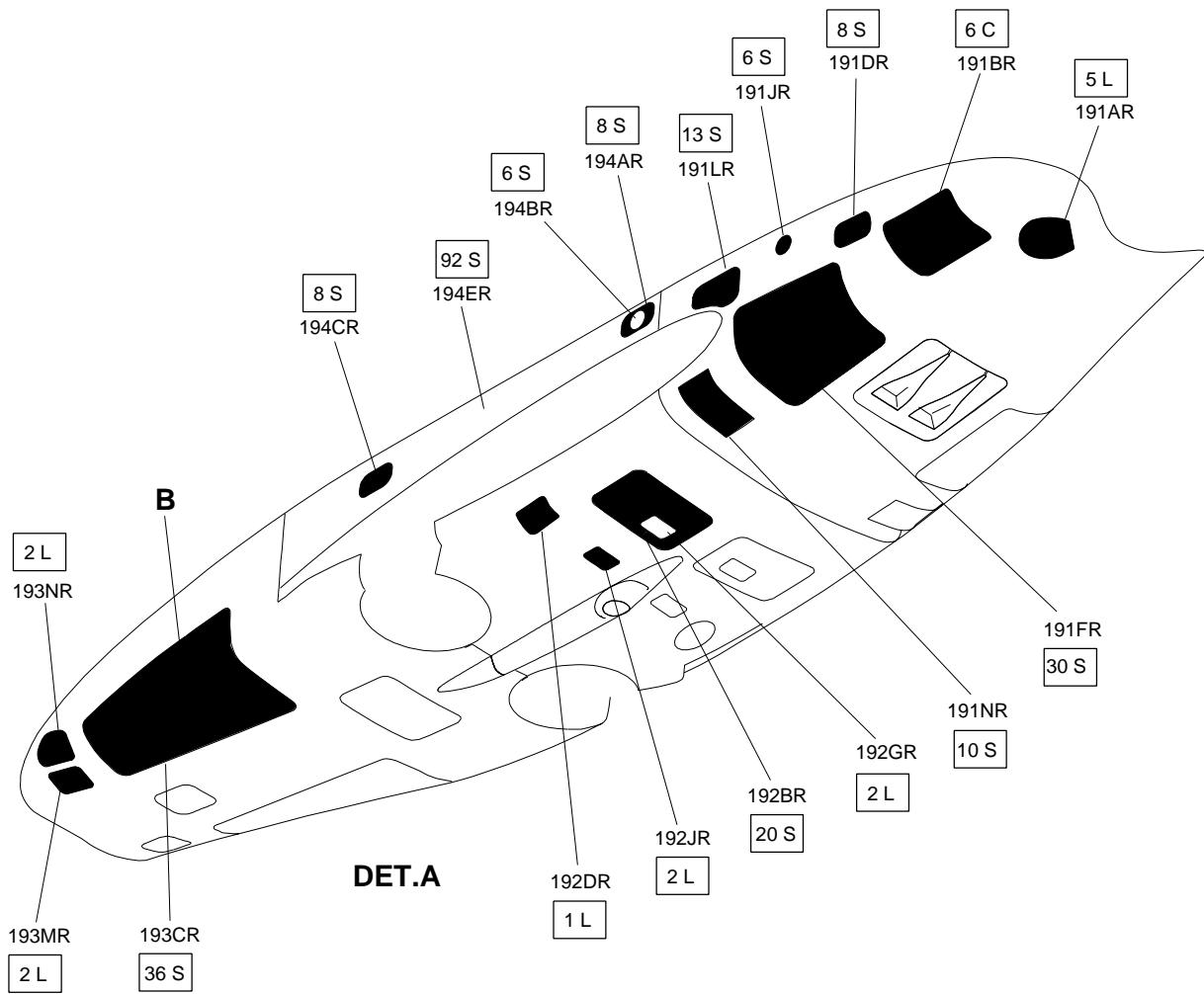
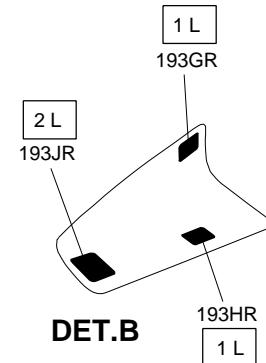
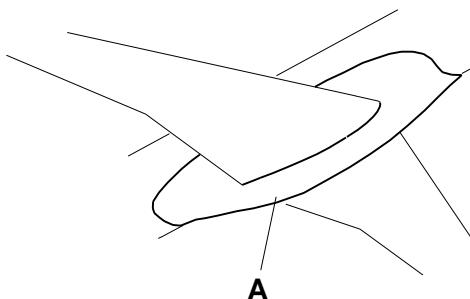


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EFFECTIVITY: EMB-135LR model

Wing-to-Fuselage Attachment Fairing Access Doors and Panels (RH)

Figure 112

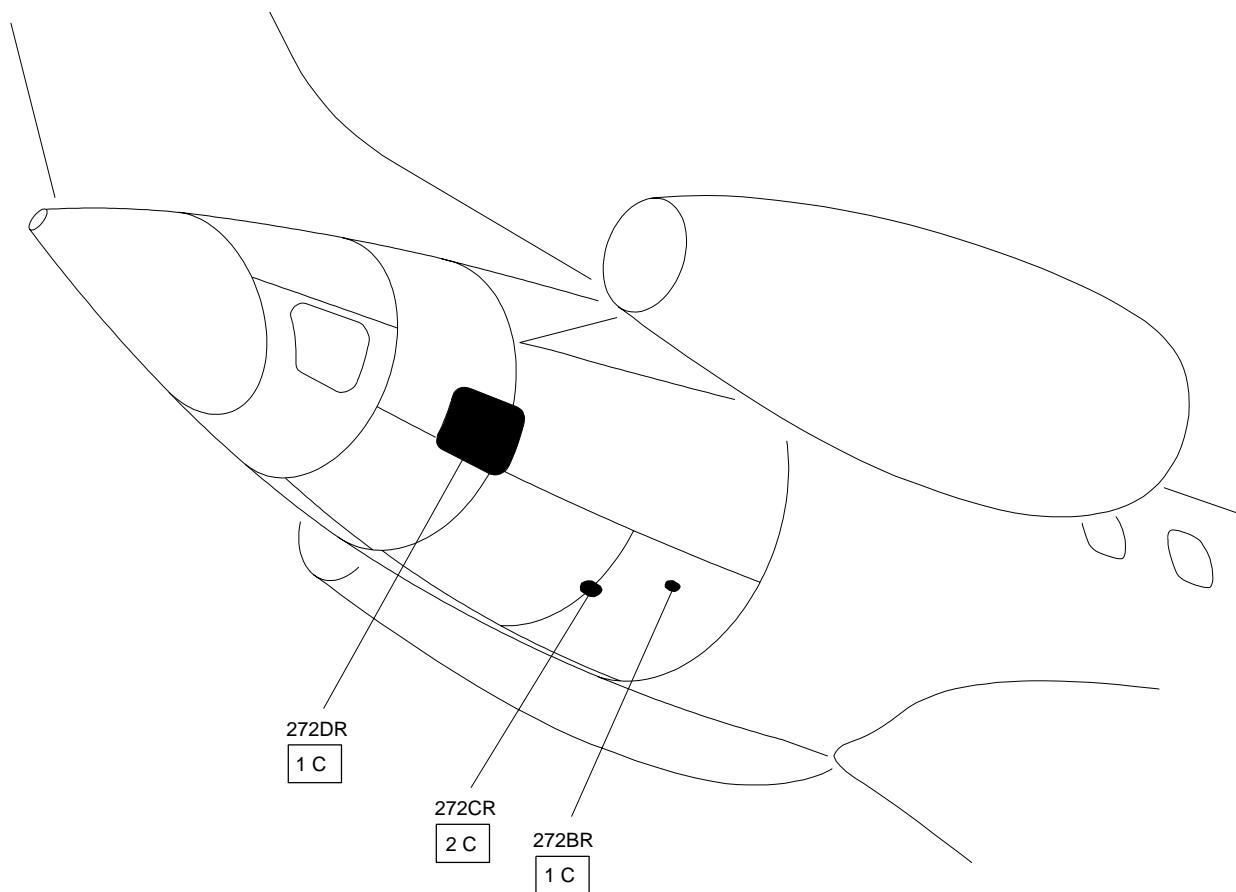
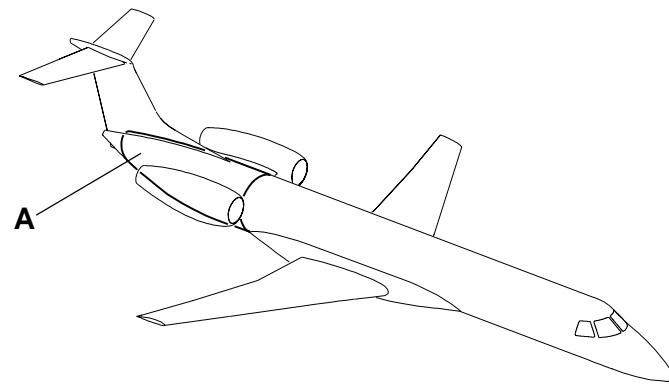


145AMM060109.MCE B

EFFECTIVITY: ALL

Rear Fuselage External Access Doors and Panels

Figure 113



DET. A

145AMM060088.MCE