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General Limitations

This Configuration Deviation List (CDL) contains additional certificate limitations for operation of the Boeing Model 747-400 series airplane without certain secondary airframe and engine parts as listed herein. This CDL is prepared in accordance with Appendix CDL of the FAA Approved Flight Manual (AFM).

The pilot-in-command must be notified of each operation with a missing part(s) by listing the missing part(s) on the Flight Dispatch Release (FDR).

Limitations associated with operating Boeing 747 series airplanes with missing part(s) are contained in this CDL. The CDL reference number for a missing part(s) will be listed on the FDR and a placard found in the aircraft logbook. Refer to the applicable CDL item under Remarks or Exceptions and its associated Performance Correction Box for limitations. Prior to dispatch, the pilot-in-command must refer to this CDL to obtain limitations for operation with missing part(s).

Prior to releasing an aircraft for service with a missing part(s), the missing part(s) must be recorded in the aircraft logbook and a placard installed (ref. [TOPP 40-40-05](#) and MEL Placard Instructions table found in [B747-400 Minimum Equipment List](#), MEL Instructions section).

Operation with those missing parts requiring a reduction of V_{MO}/M_{MO} is permitted only when the airplane has the appropriate alternate V_{MO} set prior to flight.

If an additional part is lost in flight, the airplane may not depart the airport at which it landed following this event until it again complies with the limitations of this CDL. This does not preclude the issuance of a ferry permit to allow the airplane to be flown to a point where the necessary repairs or replacements can be made.

No more than one part for any one sub-system (i.e. 57-30-xx) in this CDL may be missing unless specifically designated combinations are indicated herein. Unless otherwise specified herein, parts from different sub-systems may be missing. The performance decrements are cumulative.

Takeoff performance penalties are to be applied to the Runway Allowable Takeoff Weight (RATOW), and/or to the Takeoff Climb Limit Weight (T/O CLIMB LIMIT), as required by the applicable CDL item. The CDL takeoff performance penalties are automatically applied to the AWABS generated WDR.

The enroute performance penalties in this CDL are applied to all flights by the Flight Control Dispatcher when analyzing the flight plan using the FPS flight planning system. The penalty is entered as an Enroute Driftdown Penalty in FPS and applied in FPS by increasing the weight of the aircraft by the penalty amount. The flight planning system will then access the driftdown tables at the penalized, increased weight to determine the driftdown weight limit. One-engine inoperative performance limitations (under FAR 121.191) will be applied where most restrictive. Transoceanic operations are conducted under ETOPS rules and use the same CDL performance penalty method.

Landing performance penalties are to be applied to the Runway Allowable Landing Weight (RALW), and/or to the Landing Climb Limit Weight (LCLW), as required by the applicable CDL item. The CDL landing performance penalties are automatically applied to the AWABS generated WDR.

The numbering and designation of systems in this CDL is based on ATA Specification 100. The parts within each system are identified by functional description and, when necessary, by part numbers.

Performance Box Explanation

①	27-51-03	FLAP TRACK FAIRING TAILCONES
②	EFFECTIVITY	All
③	FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 3,200 lbs. for each missing tailcone. 2. Increase BLOCK FUEL by 0.8% for each missing tailcone.
④	NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
⑤	AWABS	Performance corrections have been applied.
⑥	TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 1,050 lbs. for each missing tailcone. 2. Reduce T/O CLIMB LIMIT by 1,050 lbs. for each missing tailcone. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 1,050 lbs. for each missing tailcone. 2. Reduce LANDING CLIMB LIMIT WT by 1,050 lbs. for each missing tailcone.

Shown above is a sample Performance Correction for a CDL item. The contents of the Performance Correction box should be used in conjunction with the other limitations and procedures in the CDL for the applicable dispatch. A quick-reference guide to the Performance Correction is provided below. It is important to note that items appearing above the double line should be considered by all users including the flight crew and dispatcher. Items below the double line are primarily for flight crew or LCC use. Use the appropriate box depending on the type of Weight Data Record (WDR) generated.

NOTE: The Performance Correction shown above is provided for training purposes only and should not be used for CDL 27-51-03. Additionally, the sample CDL item above may not reflect the most current information.

1. CDL number and title.
2. **EFFECTIVITY:** Aircraft affected by the subject CDL item. Use the cross-reference table in the front of the MEL as necessary.
3. **FLIGHT PLANNING REQUIREMENTS:** Requirements that must be taken into account prior to the flight.
 - These items will be the responsibility of the dispatcher and must be taken into account prior to the flight.
 - Examples of Flight Planning Requirements can be, but are not limited to, Enroute Climb Limit Weight or Block Fuel adjustments.
4. **NOTES:** Other pertinent information applicable to this CDL item.
5. **AWABS:** Contains information regarding functionality applied by AWABS. One of the two following statements will be published:
 - "Performance corrections have been applied" indicates that the AWABS document contains all applicable CDL adjustments and that no further Flight Crew action is required.
 - "Performance weight corrections have been applied" indicates that only the weights listed on the AWABS document contain the applicable CDL adjustments. This statement is followed by a specific action (or actions) required by the Flight Crew. Example – "Performance weight corrections have been applied. Reduce V1 by 3 KIAS." These statements advise that the performance weight corrections have been applied by AWABS, but the Flight Crew must reduce the V1 noted on the AWABS document by 3 KIAS.

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6. **TAKEOFF PERFORMANCE WORKSHEET:** LCC will complete this Worksheet (including performance corrections shown in this section) and a copy will be provided to the flight crew when dispatched with a Manual WDR. This section contains three subsections: Takeoff, Landing, and Other Corrections. The section titled "Other Corrections" will only appear if other corrections are to be performed.

TAKEOFF

- Runway Allowable Takeoff Weight adjustment.
- Takeoff Climb Limit Weight adjustment.

LANDING

- Runway Allowable Landing Weight adjustment.
- Approach/Landing Climb Limit Weight adjustment.
- Maximum Quick Turnaround Landing Weight adjustment.

OTHER CORRECTIONS

- V-speed adjustments.
- Landing speed adjustments.
- EPR or N_1 adjustments.

ATA 21 Contents

21-30-01	Cabin Pressure Relief Valve Flapper Doors	21-2
21-52-01	A/C Ram Air Outlet Assemblies	21-4
21-62-01	A/C Ram Air Inlet Doors	21-6

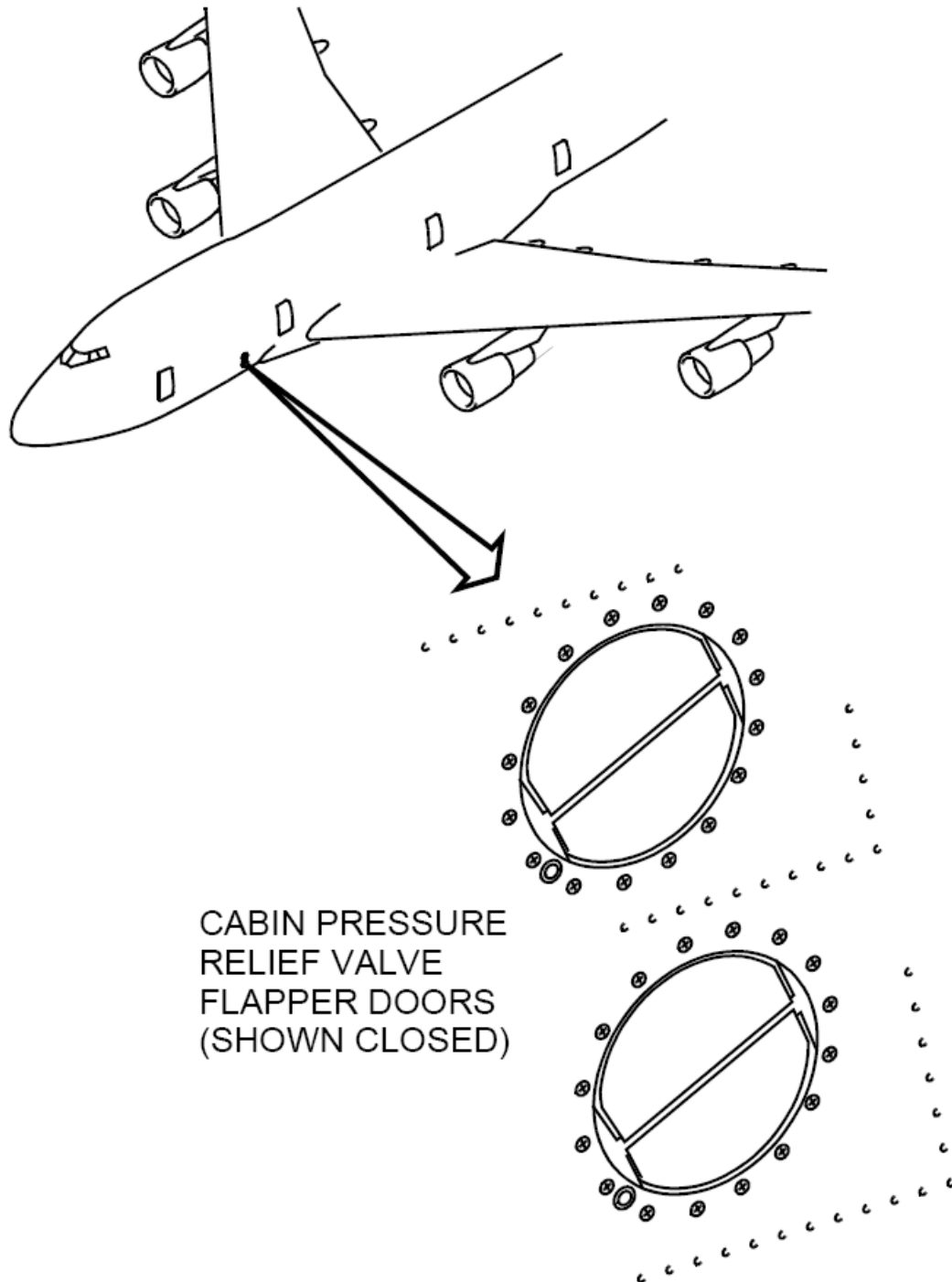
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH		
FLIGHT CREW MAY PLACARD			N	2	0	REPAIR CATEGORY
ITEM NO.	NAME / DESCRIPTION					REMARKS OR EXCEPTIONS
21-30-01	Cabin Pressure Relief Valve Flapper Doors “DISP.APPR.REQ'D”					(O) One or both may be missing provided performance corrections are applied.

CDL ITEM	TAB LOCATION	PLACARD TEXT
21-30-01	N/A	___ Cabin Pressure Relief Valve Flapper Door(s) missing

(O) PROCEDURES

21-30-01	CABIN PRESSURE RELIEF VALVE FLAPPER DOORS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF - Reduce RATOW by 100 lbs. - Reduce T/O CLIMB LIMIT by 100 lbs. LANDING - Reduce RWY ALLOWABLE LANDING WT by 100 lbs. - Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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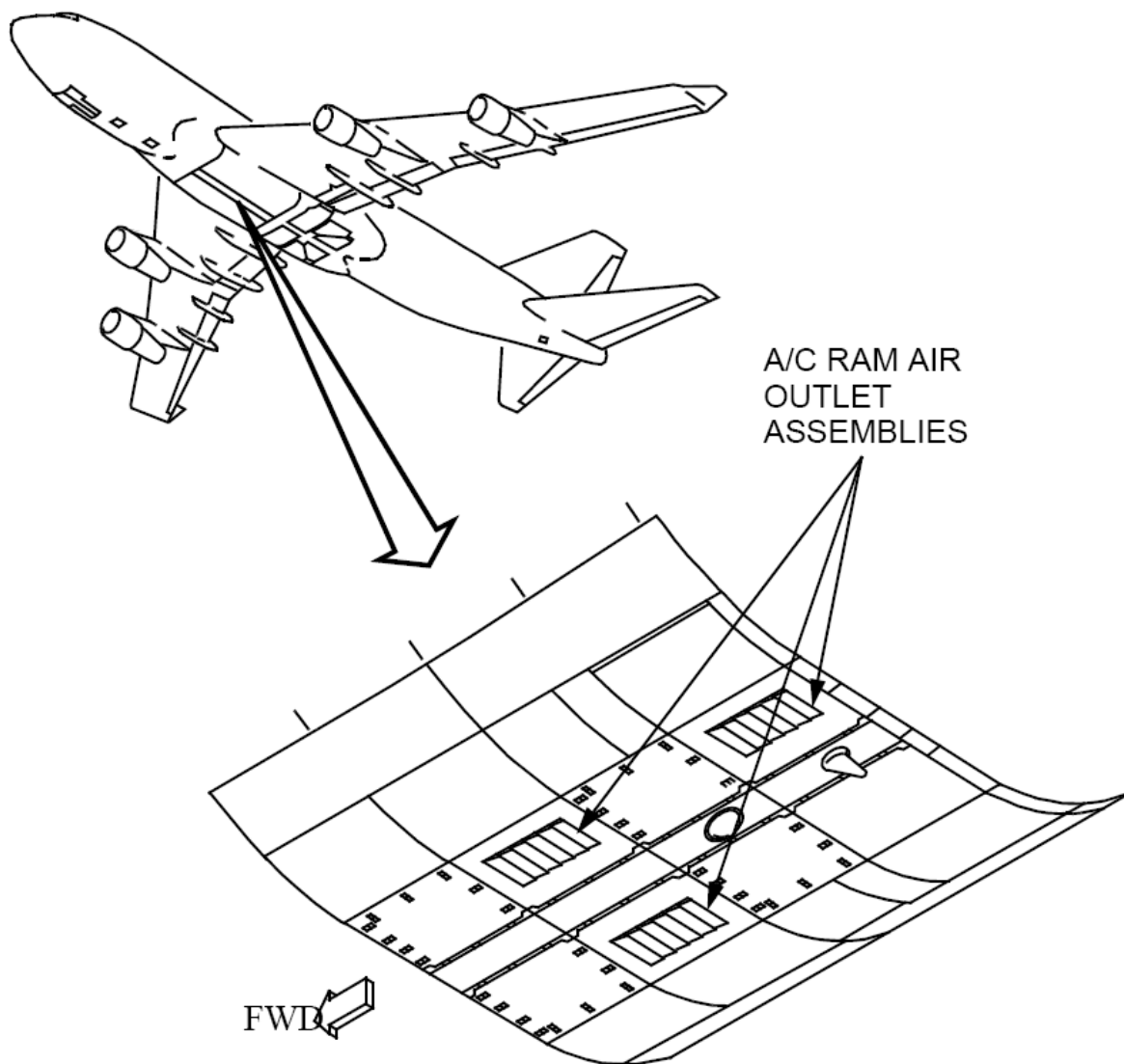
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
21-52-01	A/C Ram Air Outlet Assemblies "DISP.APPR.REQ'D"	N	3	0	(O) Any number of louvers may be missing from the three assemblies in any combination provided performance corrections are applied.

CDL ITEM	TAB LOCATION	PLACARD TEXT
21-52-01	N/A	___ A/C Ram Air Outlet Assembly missing

(O) PROCEDURES

21-52-01	A/C RAM AIR OUTLET ASSEMBLIES
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 9,000 lbs. 2. Increase BLOCK FUEL by 2.25%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 2,950 lbs. 2. Reduce T/O CLIMB LIMIT by 2,950 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 2,950 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 2,950 lbs.

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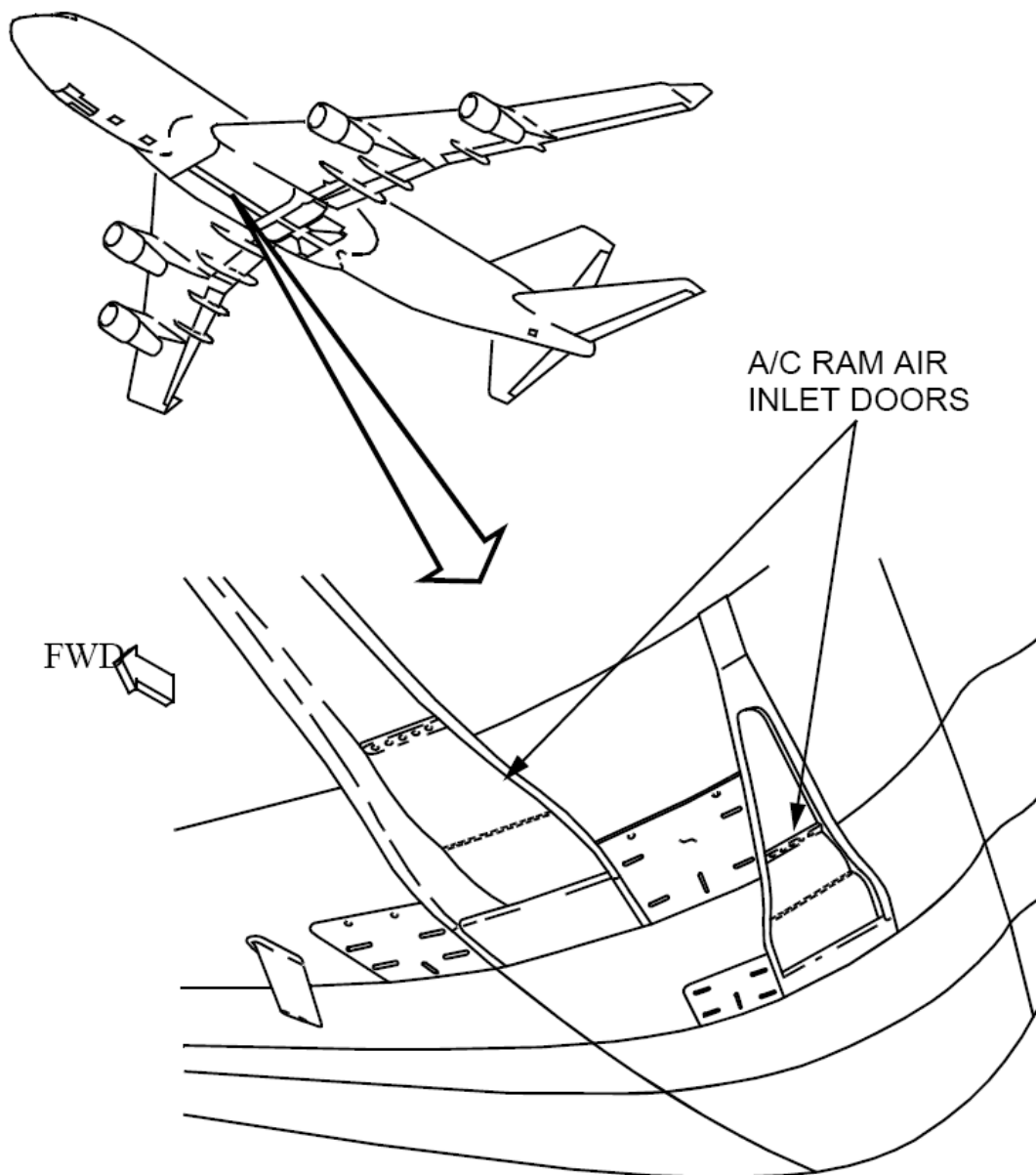
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
21-62-01	A/C Ram Air Inlet Doors "DISP.APPR.REQ'D"	N	3	2	(O) Only one may be missing provided: a) The exit louvers of the A/C pack with the missing door must be in the full open position, b) Exit door is considered inoperative and deferred per MEL 21-62-02D, and c) Performance corrections are applied.

CDL ITEM	TAB LOCATION	PLACARD TEXT
21-62-01	N/A	___ A/C Ram Air Inlet Door(s) missing

(O) PROCEDURES

21-62-01	A/C RAM AIR INLET DOORS
EFFECTIVITY	ALL
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 2,400 lbs. 2. Increase BLOCK FUEL by 0.6%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 800 lbs. 2. Reduce T/O CLIMB LIMIT by 800 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 800 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 800 lbs.

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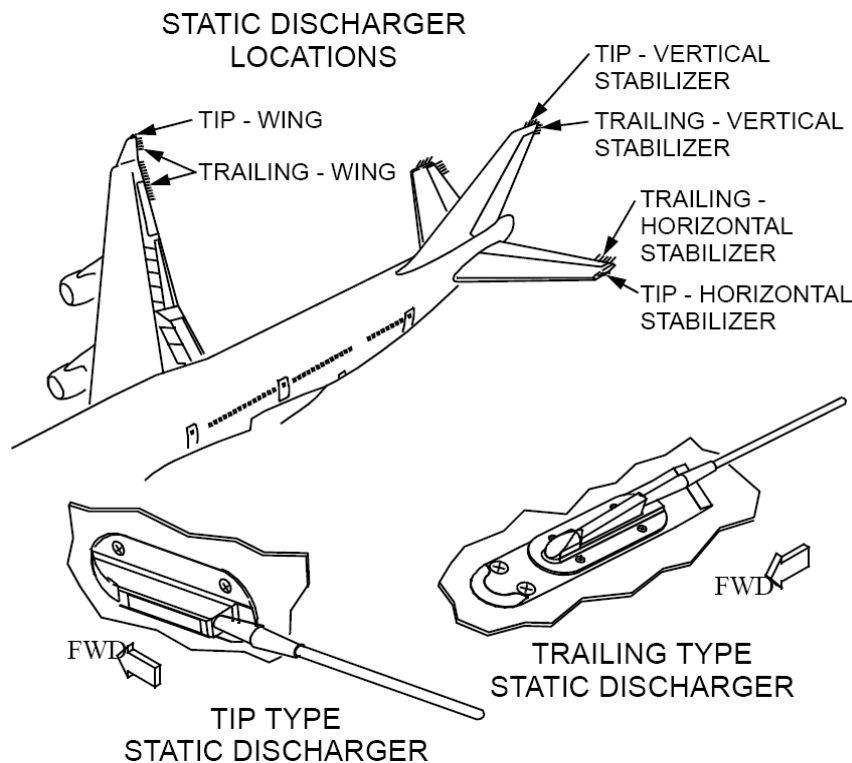
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ATA 23 Contents

23-61-01	Static Dischargers (Trailing and Tip Type)	23-2
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NUMBER INSTALLED			NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD			REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION			REMARKS OR EXCEPTIONS
23-61-01	Static Dischargers (Trailing and Tip Type) "DISP.APPR.REQ'D"	N 68	23	A minimum of 23 are required provided they are distributed as follows: 1. A minimum of 15 trailing type dischargers, 3 at any of the 6 outboard locations on each wing, 3 at any of the 5 outboard locations on each horizontal stabilizer and 3 at any of the 4 upper locations on the vertical stabilizer. 2. A minimum of 8 tip type dischargers, 1 on each winglet tip, 2 on each horizontal stabilizer tip and 2 on the vertical stabilizer tip. There are no performance corrections required for missing static dischargers.

CDL ITEM	TAB LOCATION	PLACARD TEXT
23-61-01	N/A	___ Static Discharger(s) missing



ATA 27 Contents

27-11-01A	Outboard Aileron End Seals.....	27-2
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27-51-01A	Trailing Edge Flap to Fuselage Seals	27-6
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27-51-04	Inboard Trailing Edge Flap Outboard Deflection Control Roller.....	27-16
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27-51-06	Outboard Trailing Edge Flap End Seals.....	27-20
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NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD					REPAIR CATEGORY
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
27-11-01A	Outboard Aileron End Seals “DISP.APPR.REQ'D”	N	4 Pairs	-	(O) Any one seal from a pair may be missing provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item 27-11-02.
27-11-01B	Outboard Aileron End Seals “DISP.APPR.REQ'D”	N	4 Pairs	0	(O) Any number of pairs may be missing provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item 27-11-02.

CDL ITEM	TAB LOCATION	PLACARD TEXT
27-11-01A	N/A	___ Outboard Aileron End Seal(s) missing
27-11-01B	N/A	___ Outboard Aileron End Seal Pairs missing

(O) PROCEDURES

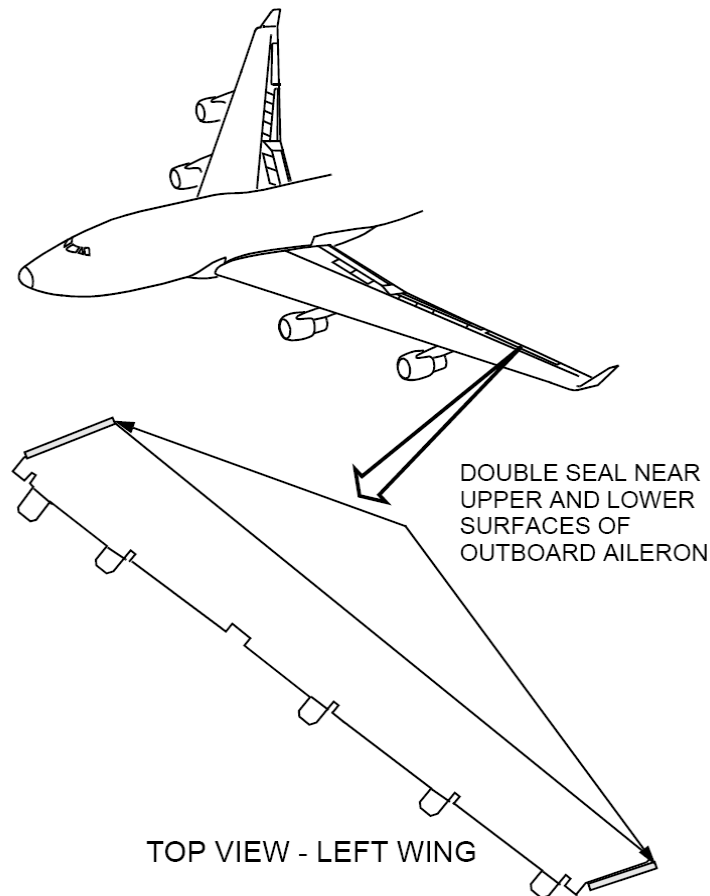
27-11-01A

27-11-01A	OUTBOARD AILERON END SEALS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF - Reduce RATOW by 100 lbs. - Reduce T/O CLIMB LIMIT by 100 lbs. LANDING - Reduce RWY ALLOWABLE LANDING WT by 100 lbs. - Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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27-11-01B

27-11-01B	OUTBOARD AILERON END SEALS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 870 lbs. for each missing pair. 2. Increase BLOCK FUEL by 0.22% for each missing pair.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 280 lbs. for each missing pair. 2. Reduce T/O CLIMB LIMIT by 280 lbs. for each missing pair. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 280 lbs. for each missing pair. 2. Reduce LANDING CLIMB LIMIT WT by 280 lbs. for each missing pair.



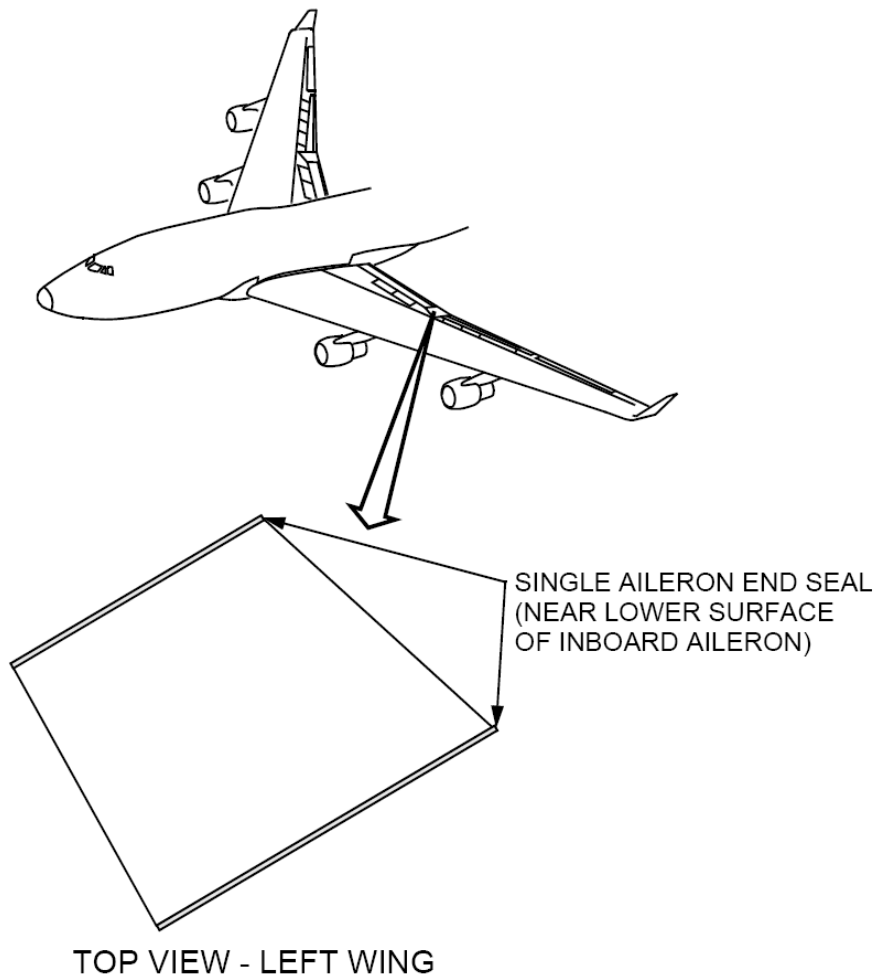
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
27-11-02	Inboard Aileron End Seals "DISP.APPR.REQ'D"	N	4	0	(O) Any or all may be missing provided performance corrections are applied. NOTE 1: A seal consists of multiple segments at any of the four installed locations. NOTE 2: This CDL item may not be applied in combination with CDL item(s): 27-11-01A, 27-11-01B.

CDL ITEM	TAB LOCATION	PLACARD TEXT
27-11-02	N/A	___ Inboard Aileron End Seal missing

(O) PROCEDURES

27-11-02	INBOARD AILERON END SEALS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 1,170 lbs. for each missing seal. 2. Increase BLOCK FUEL by 0.3% for each missing seal.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF None LANDING None

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NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
27-51-01A	Trailing Edge Flap to Fuselage Seals (Fore-Flap) “DISP.APPR.REQ'D”	N	2	0	(O) One or both may be <u>missing</u> provided performance corrections are applied. NOTE 1: A missing seal is defined as the absence of an entire seal, or a seal that has sustained damage to both the upper and lower surfaces and allows leakage through the surfaces. NOTE 2: This CDL item may not be applied in combination with CDL item(s): 27-51-02, 27-51-03, 27-51-04, 27-51-05, 27-51-06.
27-51-01B	Trailing Edge Flap to Fuselage Seals (Mid-Flap) “DISP.APPR.REQ'D”	N	2	0	(O) One or both may be <u>missing</u> provided performance corrections are applied. NOTE 1: A missing seal is defined as the absence of an entire seal, or a seal that has sustained damage to both the upper and lower surfaces and allows leakage through the surfaces. NOTE 2: This CDL item may not be applied in combination with CDL item(s): 27-51-02, 27-51-03, 27-51-04, 27-51-05, 27-51-06.
27-51-01C	Trailing Edge Flap to Fuselage Seals (Aft-Flap) “DISP.APPR.REQ'D”	N	2	0	(O) One or both may be <u>missing</u> provided performance corrections are applied. NOTE 1: A missing seal is defined as the absence of an entire seal, or a seal that has sustained damage to both the upper and lower surfaces and allows leakage through the surfaces. NOTE 2: This CDL item may not be applied in combination with CDL item(s): 27-51-02, 27-51-03, 27-51-04, 27-51-05, 27-51-06.

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NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
27-51-01D	Trailing Edge Flap to Fuselage Seals (Fore-Flap) "DISP.APPR.REQ'D"	N	2	0	(O) One or both may be <u>damaged</u> provided performance corrections are applied. NOTE 1: A damaged seal is defined as one which sustained damage to either the upper or lower surface, but does not allow airflow through both surfaces. NOTE 2: This CDL item may <u>not</u> be applied in combination with CDL item(s): 27-51-02, 27-51-03, 27-51-04, 27-51-05, 27-51-06.
27-51-01E	Trailing Edge Flap to Fuselage Seals (Mid-Flap) "DISP.APPR.REQ'D"	N	2	0	(O) One or both may be <u>damaged</u> provided performance corrections are applied. NOTE 1: A damaged seal is defined as one which sustained damage to either the upper or lower surface, but does not allow airflow through both surfaces. NOTE 2: This CDL item may <u>not</u> be applied in combination with CDL item(s): 27-51-02, 27-51-03, 27-51-04, 27-51-05, 27-51-06.
27-51-01F	Trailing Edge Flap to Fuselage Seals (Aft-Flap) "DISP.APPR.REQ'D"	N	2	0	(O) One or both may be <u>damaged</u> provided performance corrections are applied. NOTE 1: A damaged seal is defined as one which sustained damage to either the upper or lower surface, but does not allow airflow through both surfaces. NOTE 2: This CDL item may <u>not</u> be applied in combination with CDL item(s): 27-51-02, 27-51-03, 27-51-04, 27-51-05, 27-51-06.

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CDL ITEM	TAB LOCATION	PLACARD TEXT
27-51-01A	N/A	___ Trailing Edge Flap to Fuselage Fore-Flap Seal missing
27-51-01B	N/A	___ Trailing Edge Flap to Fuselage Mid-Flap Seal missing
27-51-01C	N/A	___ Trailing Edge Flap to Fuselage Aft-Flap Seal missing
27-51-01D	N/A	___ Trailing Edge Flap to Fuselage Fore-Flap Seal damaged
27-51-01E	N/A	___ Trailing Edge Flap to Fuselage Mid-Flap Seal damaged
27-51-01F	N/A	___ Trailing Edge Flap to Fuselage Aft-Flap Seal damaged

(O) PROCEDURES

27-51-01A

27-51-01A	TRAILING EDGE FLAP-TO-FUSELAGE SEALS (FORE-FLAP)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	None
NOTES	None
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 4,400 lbs. for each missing seal. 2. Reduce T/O CLIMB LIMIT by 4,400 lbs. for each missing seal. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 4,550 lbs. for each missing seal. 2. Reduce LANDING CLIMB LIMIT WT by 4,550 lbs. for each missing seal.

27-51-01B

27-51-01B	TRAILING EDGE FLAP-TO-FUSELAGE SEALS (MID-FLAP)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 5,800 lbs. for each missing seal. 2. Increase BLOCK FUEL by 1.45% for each missing seal.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 1,800 lbs. for each missing seal. 2. Reduce T/O CLIMB LIMIT by 1,800 lbs. for each missing seal. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 1,900 lbs. for each missing seal. 2. Reduce LANDING CLIMB LIMIT WT by 1,900 lbs. for each missing seal.

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27-51-01C

27-51-01C	TRAILING EDGE FLAP-TO-FUSELAGE SEALS (AFT FLAP)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 450 lbs. for each missing seal. 2. Increase BLOCK FUEL by 0.11% for each missing seal.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. for each missing seal. 2. Reduce T/O CLIMB LIMIT by 100 lbs. for each missing seal.
	LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 150 lbs. for each missing seal. 2. Reduce LANDING CLIMB LIMIT WT by 150 lbs. for each missing seal.

27-51-01D

27-51-01D	TRAILING EDGE FLAP-TO-FUSELAGE SEALS (FORE-FLAP)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	None
NOTES	None
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 800 lbs. for each damaged seal. 2. Reduce T/O CLIMB LIMIT by 800 lbs. for each damaged seal.
	LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 950 lbs. for each damaged seal. 2. Reduce LANDING CLIMB LIMIT WT by 950 lbs. for each damaged seal.

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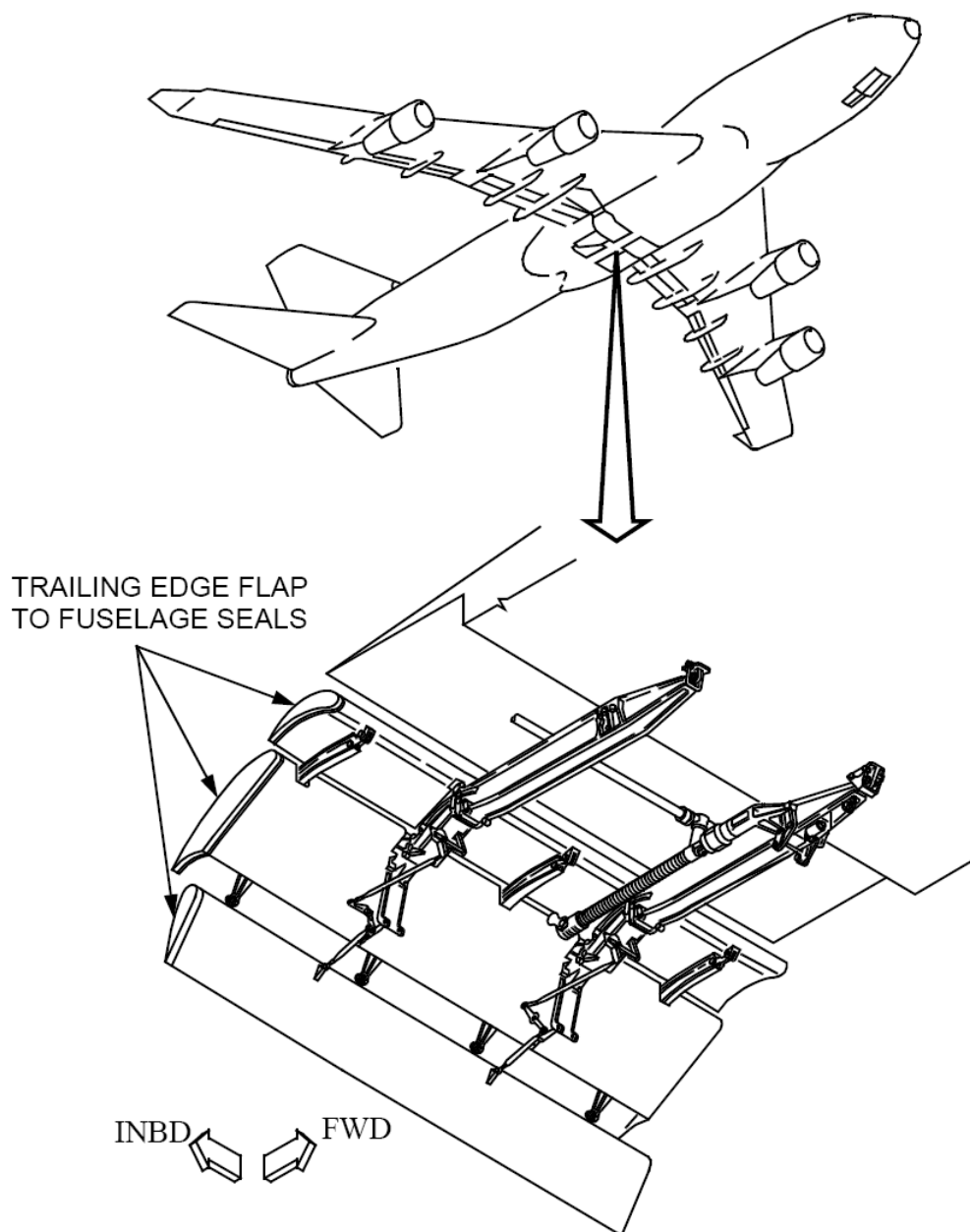
27-51-01E

27-51-01E	TRAILING EDGE FLAP-TO-FUSELAGE SEALS (MID-FLAP)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 5,800 lbs. for each damaged seal. 2. Increase BLOCK FUEL by 1.45% for each damaged seal.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 1,600 lbs. for each damaged seal. 2. Reduce T/O CLIMB LIMIT by 1,600 lbs. for each damaged seal. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 1,900 lbs. for each damaged seal. 2. Reduce LANDING CLIMB LIMIT WT by 1,900 lbs. for each damaged seal.

27-51-01F

27-51-01F	TRAILING EDGE FLAP-TO-FUSELAGE SEALS (AFT-FLAP)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 450 lbs. for each damaged seal. 2. Increase BLOCK FUEL by 0.11% for each damaged seal.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. for each damaged seal. 2. Reduce T/O CLIMB LIMIT by 100 lbs. for each damaged seal. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 150 lbs. for each damaged seal. 2. Reduce LANDING CLIMB LIMIT WT by 150 lbs. for each damaged seal.

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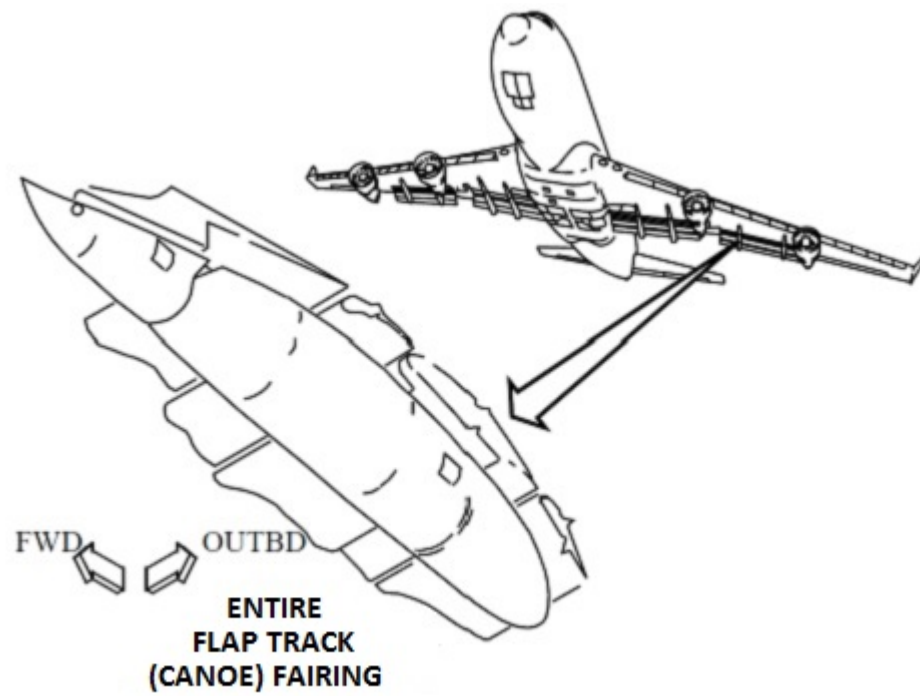
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH											
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY											
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS										
27-51-02	Flap Track (Canoe) Fairing	N	8	7	(O) The movable portion or the entire fairing may be missing from one flap track provided performance corrections are applied. NOTE 1: If only the movable door in fairing 1 or 8 is missing, the corresponding tailcone must be removed to prevent structural damage. Use CDL item 27-51-03 in lieu of CDL item 27-51-02 in this case. NOTE 2: This CDL item may not be applied in combination with CDL item(s): 27-51-01A thru F, 27-51-03, 27-51-04, 27-51-05, 27-51-06.										
	<table><tr><td><u>Position</u></td><td><u>Part No.</u></td></tr><tr><td>1 & 8</td><td>65B15510</td></tr><tr><td>2 & 7</td><td>65B15520</td></tr><tr><td>3 & 6</td><td>65B15530</td></tr><tr><td>4 & 5</td><td>65B15540</td></tr></table>	<u>Position</u>	<u>Part No.</u>	1 & 8		65B15510	2 & 7	65B15520	3 & 6	65B15530	4 & 5	65B15540			
<u>Position</u>	<u>Part No.</u>														
1 & 8	65B15510														
2 & 7	65B15520														
3 & 6	65B15530														
4 & 5	65B15540														
	"DISP.APPR.REQ'D"														

CDL ITEM	TAB LOCATION	PLACARD TEXT
27-51-02	N/A	___ Flap Track Canoe Fairing missing

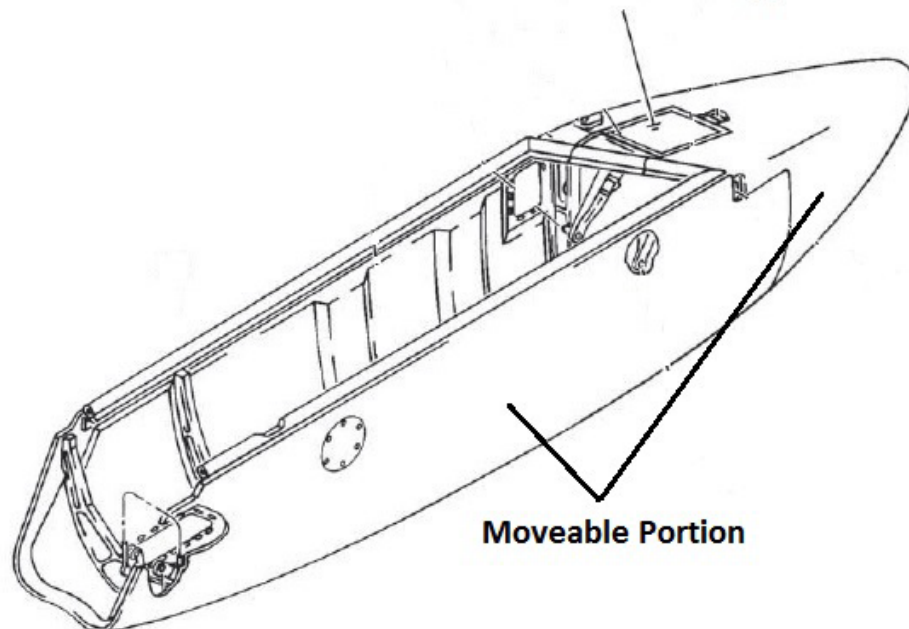
(O) PROCEDURES

27-51-02	FLAP TRACK (CANOE) FAIRING
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 8,850 lbs. 2. Increase BLOCK FUEL by 2.21%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 2,900 lbs. 2. Reduce T/O CLIMB LIMIT by 2,900 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 2,900 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 2,900 lbs.

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Movable door in Fairing 1 or 8



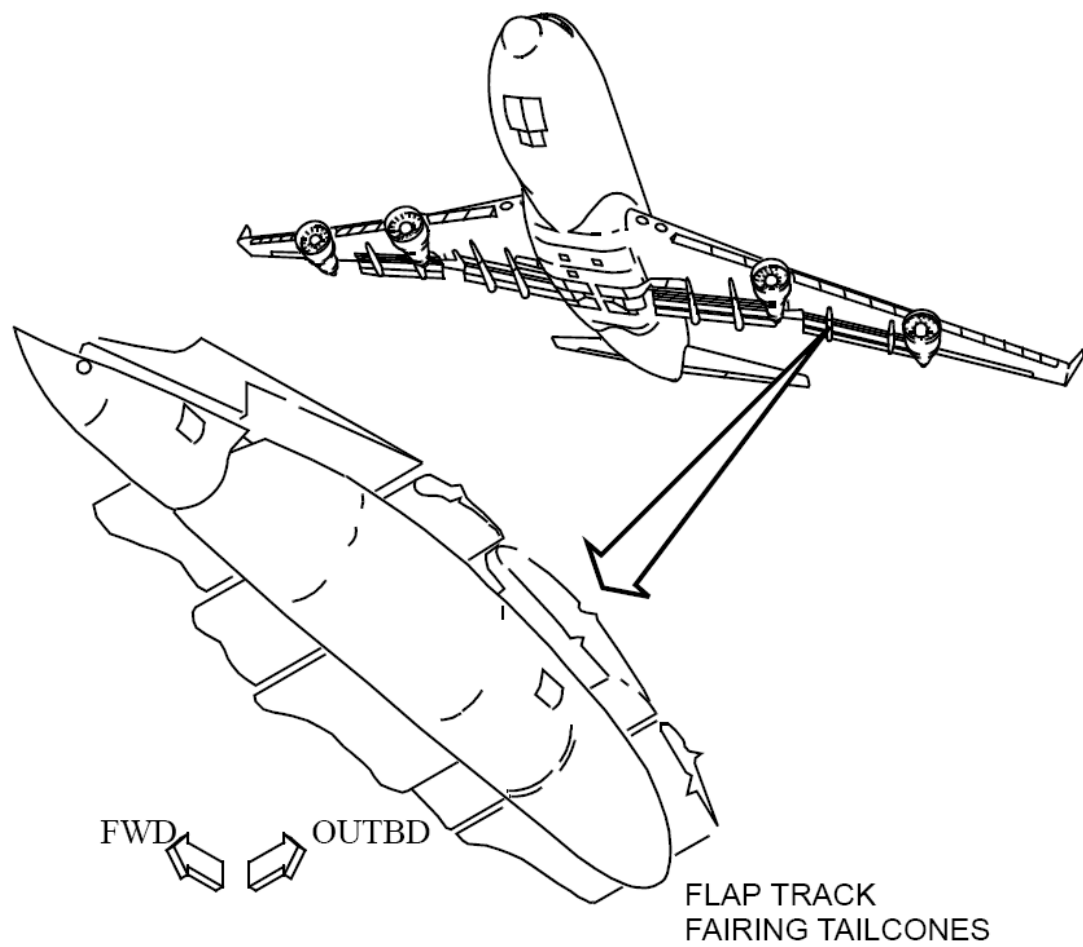
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
27-51-03	Flap Track Fairing Tailcones "DISP.APPR.REQ'D"	N	8	6	(O) One or two may be missing provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item(s): 27-51-01A thru F, 27-51-02, 27-51-04, 27-51-05, 27-51-06.

CDL ITEM	TAB LOCATION	PLACARD TEXT
27-51-03	N/A	___ Flap Track Tailcone missing

(O) PROCEDURES

27-51-03	FLAP TRACK FAIRING TAILCONES
EFFECTIVITY	ALL
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 3,200 lbs. for each missing tailcone. 2. Increase BLOCK FUEL by 0.8% for each missing tailcone.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 1,050 lbs. for each missing tailcone. 2. Reduce T/O CLIMB LIMIT by 1,050 lbs. for each missing tailcone. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 1,050 lbs. for each missing tailcone. 2. Reduce LANDING CLIMB LIMIT WT by 1,050 lbs. for each missing tailcone.

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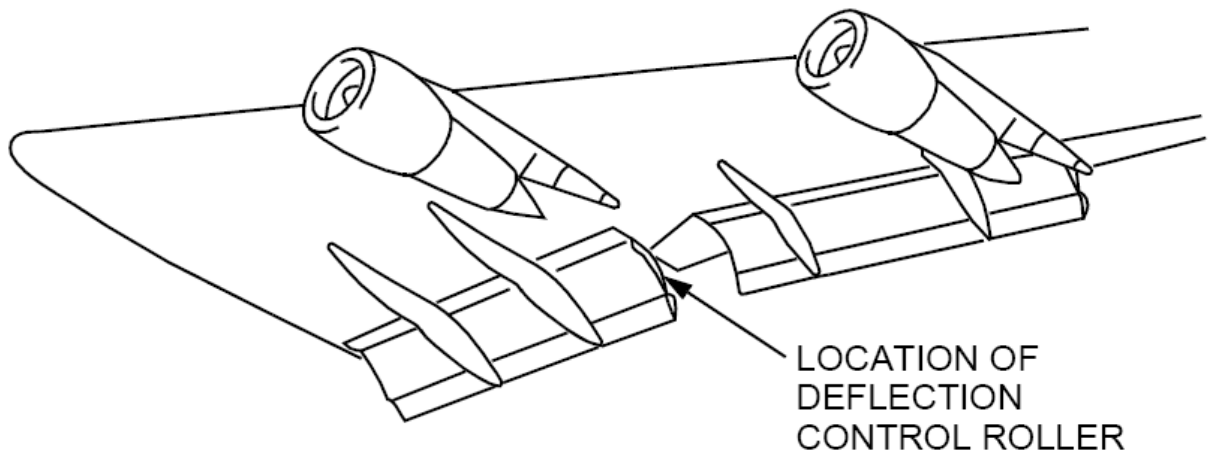
NUMBER INSTALLED			NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD			REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION			REMARKS OR EXCEPTIONS
27-51-04	Inboard Trailing Edge Flap Outboard Deflection Control Roller "DISP.APPR.REQ'D"	N 2	0	(O) One or both may be missing provided performance corrections are applied. NOTE 1: Due to the possibility of additional wear on the mid flap bullnose created by contact with the seal retainer, operation beyond the next C check is not recommended. NOTE 2: This CDL item may not be applied in combination with CDL item(s): 27-51-01A thru F, 27-51-02, 27-51-03, 27-51-05, 27-51-06.

CDL ITEM	TAB LOCATION	PLACARD TEXT
27-51-04	N/A	— Inboard Trailing Edge Flap Outboard Deflection Control Roller missing

(O) PROCEDURES

27-51-04	INBOARD TRAILING EDGE FLAP OUTBOARD DEFLECTION CONTROL ROLLER
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 260 lbs. for each roller missing. 2. Increase BLOCK FUEL by 0.07% for each roller missing.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. for each roller missing. 2. Reduce T/O CLIMB LIMIT by 100 lbs. for each roller missing. LANDING None

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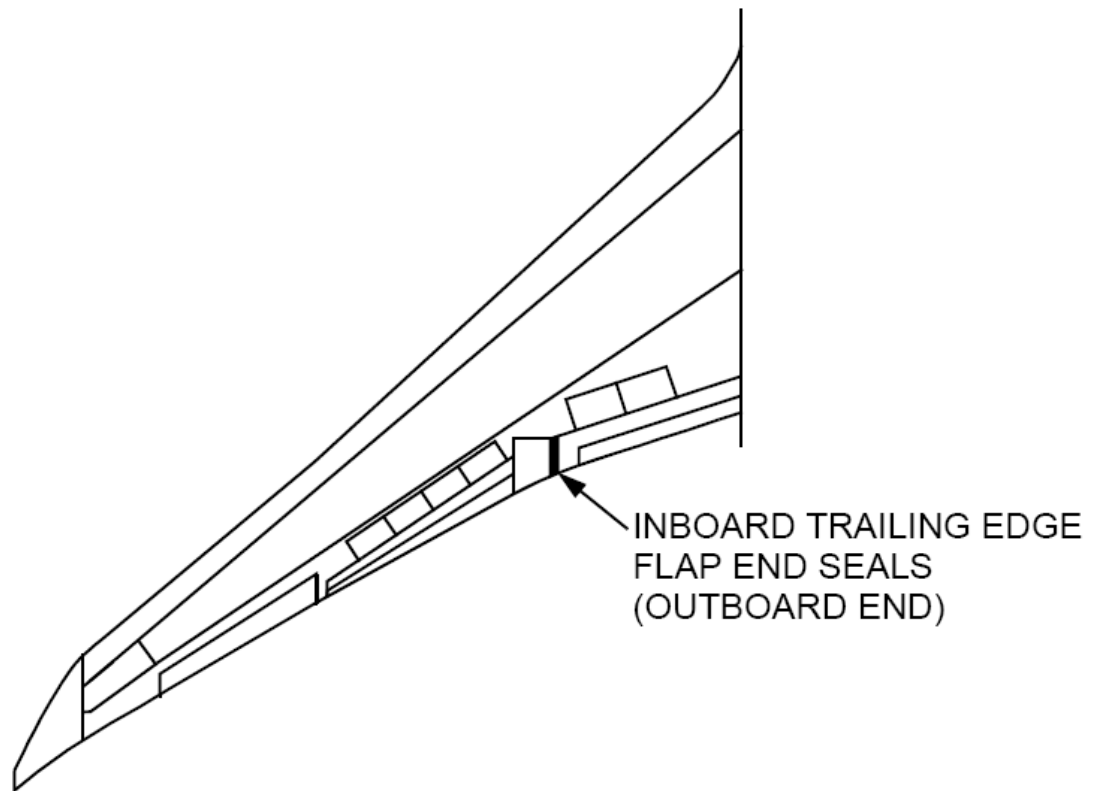
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
27-51-05	Inboard Trailing Edge Flap End Seals (Outboard End) "DISP.APPR.REQ'D"	N	2	0	(O) One or both may be missing provided performance corrections are applied. NOTE 1: A seal consists of multiple segments at any of the two installed locations. NOTE 2: This CDL item may not be applied in combination with CDL item(s): 27-51-01A thru F, 27-51-02, 27-51-03, 27-51-04, 27-51-06.

CDL ITEM	TAB LOCATION	PLACARD TEXT
27-51-05	N/A	___ Inboard Trailing Edge Flap End Seal(s) missing

(O) PROCEDURES

27-51-05	INBOARD TRAILING EDGE FLAP END SEALS (OUTBOARD END)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 600 lbs. for each missing seal. 2. Increase BLOCK FUEL by 0.15% for each missing seal.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF None LANDING None

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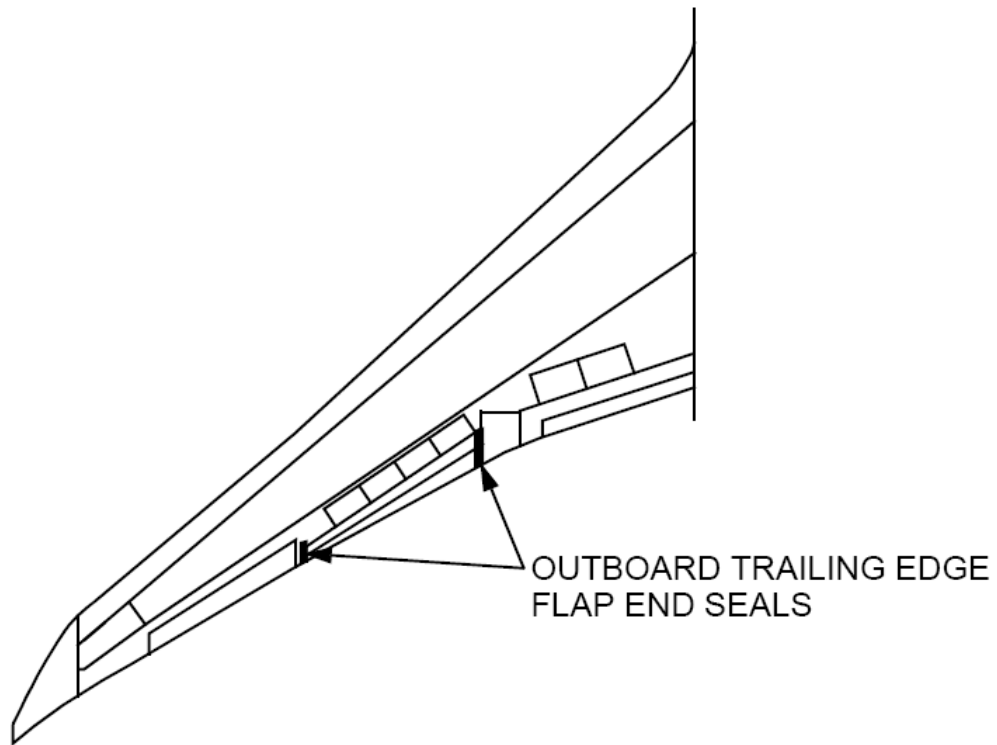
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
27-51-06	Outboard Trailing Edge Flap End Seals "DISP.APPR.REQ'D"	N	4	0	(O) Any or all may be missing provided performance corrections are applied. NOTE 1: A seal consists of multiple segments at any of the four installed locations. NOTE 2: This CDL item may not be applied in combination with CDL item(s): 27-51-01A thru F, 27-51-02, 27-51-03, 27-51-04, 27-51-05.

CDL ITEM	TAB LOCATION	PLACARD TEXT
27-51-06	N/A	___ Outboard Trailing Edge Flap End Seal(s) missing

(O) PROCEDURES

27-51-06	OUTBOARD TRAILING EDGE FLAP END SEALS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 950 lbs. for each missing seal. 2. Increase BLOCK FUEL by 0.24% for each missing seal.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF None LANDING None

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NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
27-81-01	Folding Nose Assembly "DISP.APPR.REQ'D"	N	28	27	(O) One may be missing provided performance corrections are applied. NOTE: Buffet onset will occur earlier than normal during maneuvering flight with flaps extended.

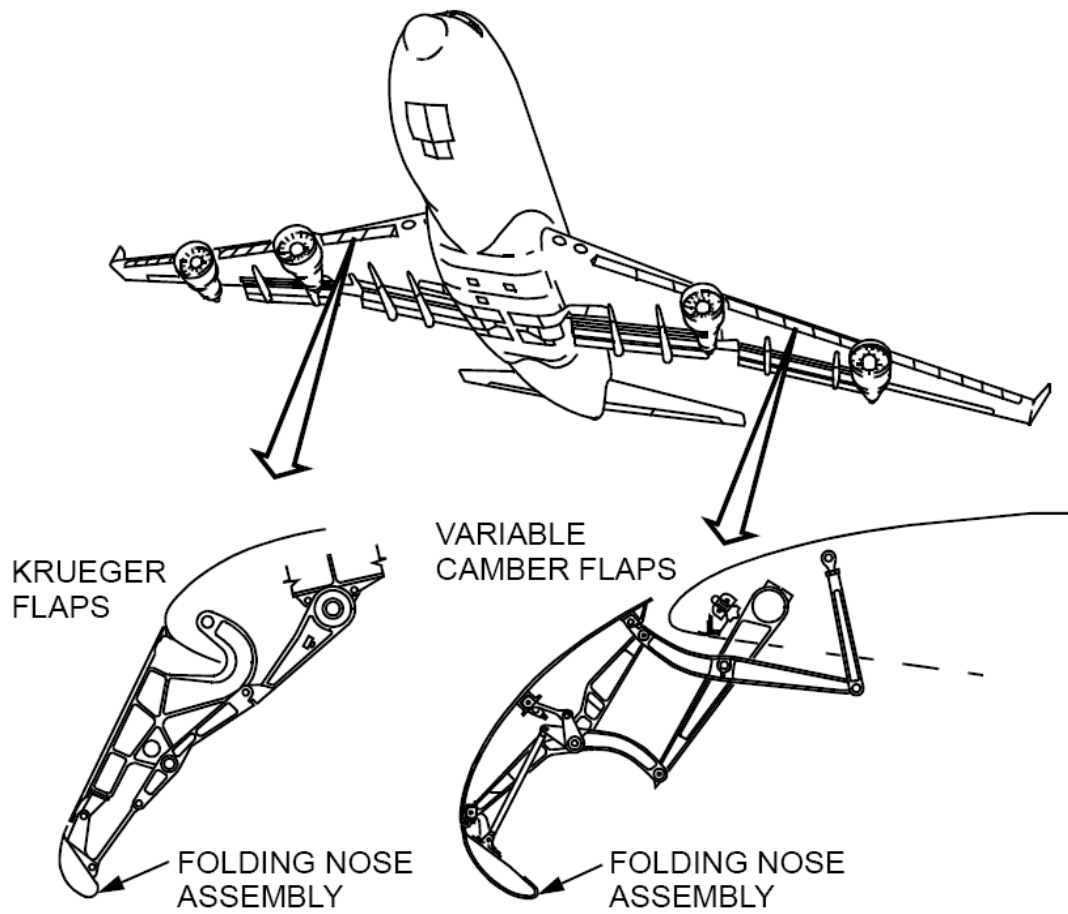
CDL ITEM	TAB LOCATION	PLACARD TEXT
27-81-01	N/A	___ Folding Nose Assembly missing

(O) PROCEDURES

Use Flaps 20 for takeoff.

27-81-01	FOLDING NOSE ASSEMBLY
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	None
NOTES	None
AWABS	1. Performance weight corrections have been applied. 2. Increase V_1 , V_R and V_2 by 4 knots. 3. Increase V_{REF} by 6 knots.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF – Below 4000 feet in elevation Reduce RATOW by 30,000 lbs. TAKEOFF – At or above 4000 feet in elevation Reduce RATOW by 57,000 lbs. LANDING Reduce RWY ALLOWABLE LANDING WT by 45,000 lbs. OTHER CORRECTIONS - Increase the ODM – Takeoff section V_1, V_R and V_2 by 4 knots. - Increase V_{REF} by 6 knots.

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ATA 28 Contents

28-22-01	Boost Pump Access Doors (Main Tanks 1 and 4)	28-2
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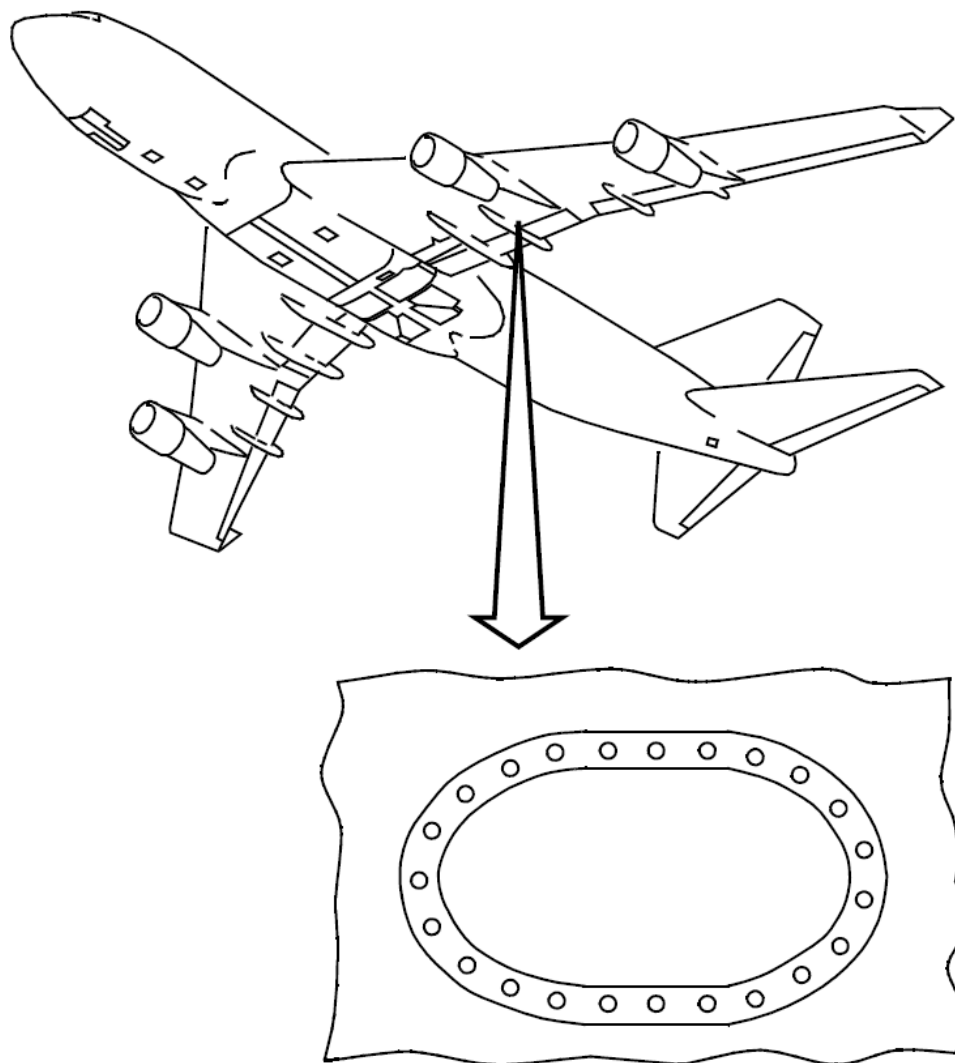
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
28-22-01	Boost Pump Access Doors (Main Tanks 1 and 4) "DISP.APPR.REQ'D"	N	4	2	(O) Any two may be missing provided performance corrections are applied.

CDL ITEM	TAB LOCATION	PLACARD TEXT
28-22-01	N/A	___ Boost Pump Access Door(s) missing

(O) PROCEDURES

28-22-01	BOOST PUMP ACCESS DOORS (MAIN TANKS 1 AND 4)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF - Reduce RATOW by 100 lbs. - Reduce T/O CLIMB LIMIT by 100 lbs. LANDING - Reduce RWY ALLOWABLE LANDING WT by 100 lbs. - Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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BOOST PUMP ACCESS DOORS
(2 ON EACH WING)

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	B747-400 Configuration Deviation List	ATA 32 Landing Gear	R4 12/19/13 Page 32-1
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ATA 32 Contents

32-10-01	Main Landing Gear Door Seals	32-2
32-12-01	Wing Gear Shock Strut Outboard Door, Inboard Door and Inboard Door Fairing	32-4
32-12-02	Wing Gear Shock Strut Inboard Door and Inboard Door Fairing	32-6
32-12-03	Wing Gear Shock Strut Inboard Door Fairing.....	32-8
32-14-01	Body Gear Shock Strut Inboard Door.....	32-10
32-14-02	Body Gear Shock Strut Outboard Door.....	32-12
32-21-01	P37 Control Panel Cover (On Nose Gear)	32-14
32-21-02	Nose Gear Bullnose Air Deflector	32-15

NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
32-10-01	Main Landing Gear Door Seals "DISP.APPR.REQ'D"	N	96	95	(O)(M) One Main Landing Gear Door Seal may be missing provided: a) Maximum airspeed limits are 270 KCAS/0.73 Mach, b) Mach-airspeed aural warning, VMO pointer, and MMO indicator must be reset in the main equipment center, and c) Performance corrections are applied. NOTE: This item does not require operation with landing gear extended. Landing gear will be retracted for flight.

CDL ITEM	TAB LOCATION	PLACARD TEXT
32-10-01	N/A	___ Main Landing Gear Door Seal missing

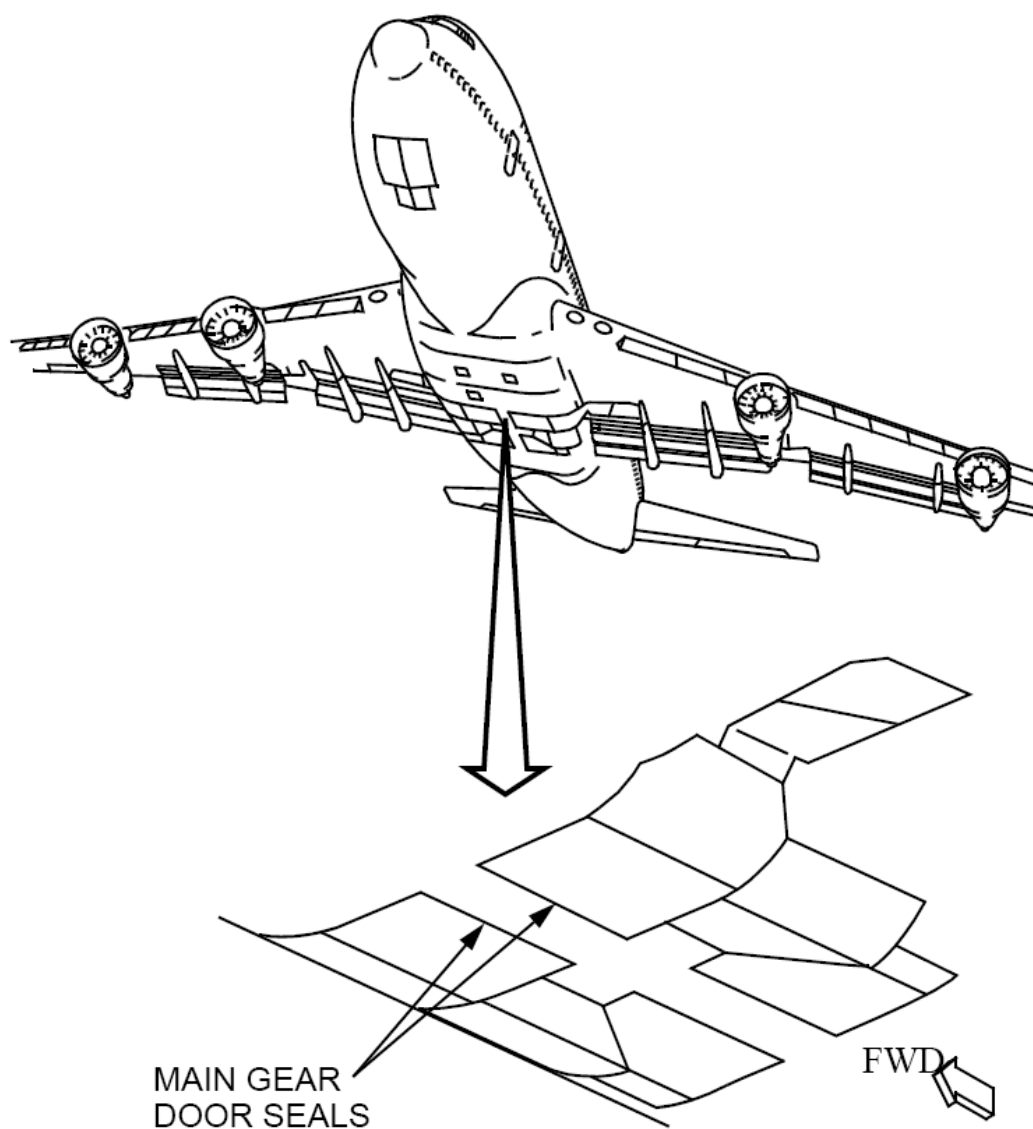
(O) PROCEDURES

32-10-01	MAIN LANDING GEAR DOOR SEALS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 1,020 lbs. 2. Increase BLOCK FUEL by 0.26%. 3. Takeoff weight may not exceed 720,000 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 340 lbs. 2. Reduce T/O CLIMB LIMIT by 340 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 340 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 340 lbs. OTHER CORRECTIONS (Manual Weight & Balance Worksheet only) Enter Structural Takeoff Weight of 720,000 lbs. under Aircraft Weight Limitations.

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(M) PROCEDURES

Place the Gear Down Dispatch switch in the Main Equipment Center to GEAR DOWN DISPATCH position.



NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD			REPAIR CATEGORY		
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
32-12-01	Wing Gear Shock Strut Outboard Door, Inboard Door and Inboard Door Fairing “DISP.APPR.REQ'D”	N	2	1	(O)(M) One Wing Gear Shock Strut Outboard Door, Inboard Door and Inboard Door Fairing assembly may be missing provided: a) Maximum airspeed limits are 270 KCAS/0.73 Mach, b) Mach-airspeed aural warning, VMO pointer, and MMO indicator must be reset in the main equipment center, and c) Performance corrections are applied. NOTE 1: This item does not require operation with landing gear extended. Landing gear will be retracted for flight. NOTE 2: This CDL item may not be applied in combination with CDL item(s): 32-12-02, 32-12-03.

CDL ITEM	TAB LOCATION	PLACARD TEXT
32-12-01	N/A	___ Wing Gear Shock Strut Outboard Door, Inboard Door and Inboard Door Fairing Assembly missing

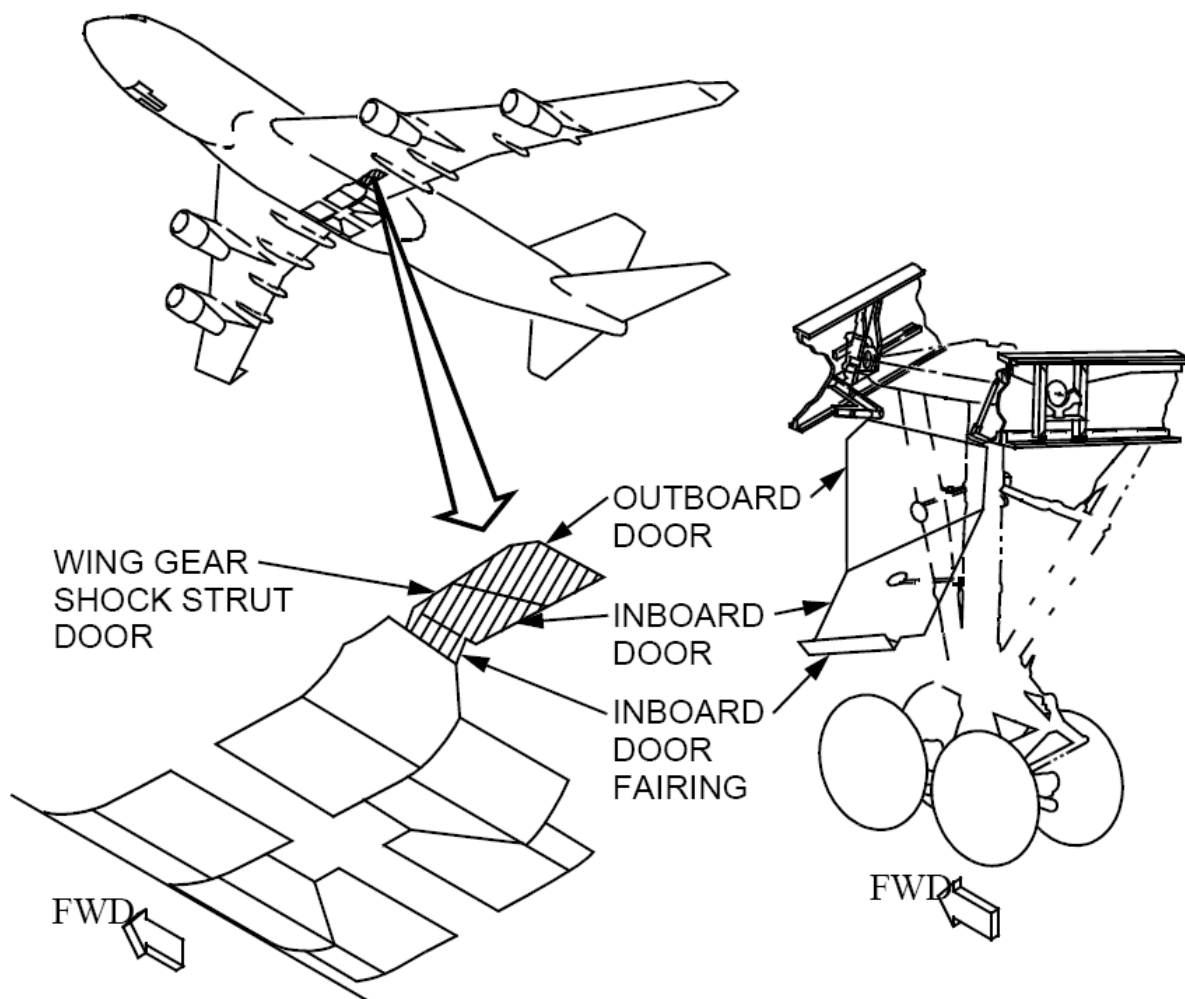
(O) PROCEDURES

32-12-01	WING GEAR SHOCK STRUT OUTBOARD DOOR, INBOARD DOOR AND INBOARD DOOR FAIRING
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 2,120 lbs. 2. Increase BLOCK FUEL by 0.53%. 3. Takeoff weight may not exceed 720,000 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 690 lbs. 2. Reduce T/O CLIMB LIMIT by 690 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 690 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 690 lbs. OTHER CORRECTIONS (Manual Weight & Balance Worksheet only) Enter Structural Takeoff Weight of 720,000 lbs. under Aircraft Weight Limitations.

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(M) PROCEDURES

Place the Gear Down Dispatch switch in the Main Equipment Center to GEAR DOWN DISPATCH position.



NUMBER INSTALLED			NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD			REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION			REMARKS OR EXCEPTIONS
32-12-02	Wing Gear Shock Strut Inboard Door and Inboard Door Fairing "DISP.APPR.REQ'D"	N 2	1	(O)(M) One Wing Gear Shock Strut Inboard Door and Inboard Door Fairing assembly may be missing provided: a) Maximum airspeed limits are 270 KCAS/0.73 Mach, b) Mach-airspeed aural warning, VMO pointer, and MMO indicator must be reset in the main equipment center, and c) Performance corrections are applied. NOTE 1: This item does not require operation with landing gear extended. Landing gear will be retracted for flight. NOTE 2: This CDL item may <u>not</u> be applied in combination with CDL item(s): 32-12-01, 32-12-03.

CDL ITEM	TAB LOCATION	PLACARD TEXT
32-12-02	N/A	___ Wing Gear Shock Strut Inboard Door and Inboard Door Fairing Assembly missing

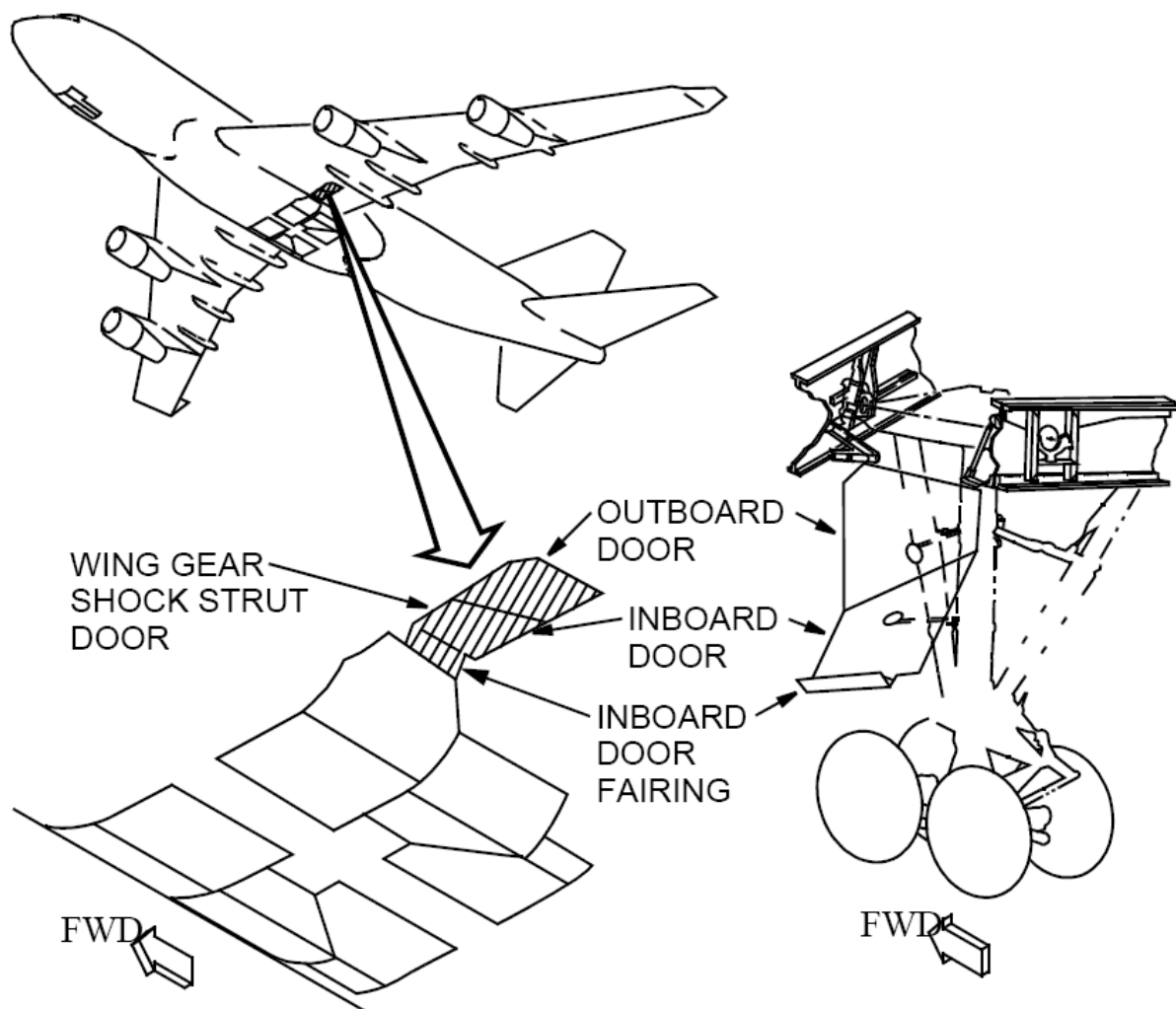
(O) PROCEDURES

32-12-02	WING GEAR SHOCK STRUT INBOARD DOOR AND INBOARD DOOR FAIRING
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 1,100 lbs. 2. Increase BLOCK FUEL by 0.28%. 3. Takeoff weight may not exceed 720,000 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 360 lbs. 2. Reduce T/O CLIMB LIMIT by 360 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 360 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 360 lbs. OTHER CORRECTIONS (Manual Weight & Balance Worksheet only) Enter Structural Takeoff Weight of 720,000 lbs. under Aircraft Weight Limitations.

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(M) PROCEDURES

Place the Gear Down Dispatch switch in the Main Equipment Center to GEAR DOWN DISPATCH position.



NUMBER INSTALLED			NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD			REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION			REMARKS OR EXCEPTIONS
32-12-03	Wing Gear Shock Strut Inboard Door Fairing "DISP.APPR.REQ'D"	N 2	1	(O)(M) One Wing Gear Shock Strut Inboard Door Fairing may be missing provided: a) Maximum airspeed limits are 270 KCAS/0.73 Mach, b) Mach-airspeed aural warning, VMO pointer, and MMO indicator must be reset in the main equipment center, and c) Performance corrections are applied. NOTE 1: This item does not require operation with landing gear extended. Landing gear will be retracted for flight. NOTE 2: This CDL item may not be applied in combination with CDL item(s): 32-12-01, 32-12-02.

CDL ITEM	TAB LOCATION	PLACARD TEXT
32-12-03	N/A	___ Wing Gear Shock Strut Inboard Door Fairing missing

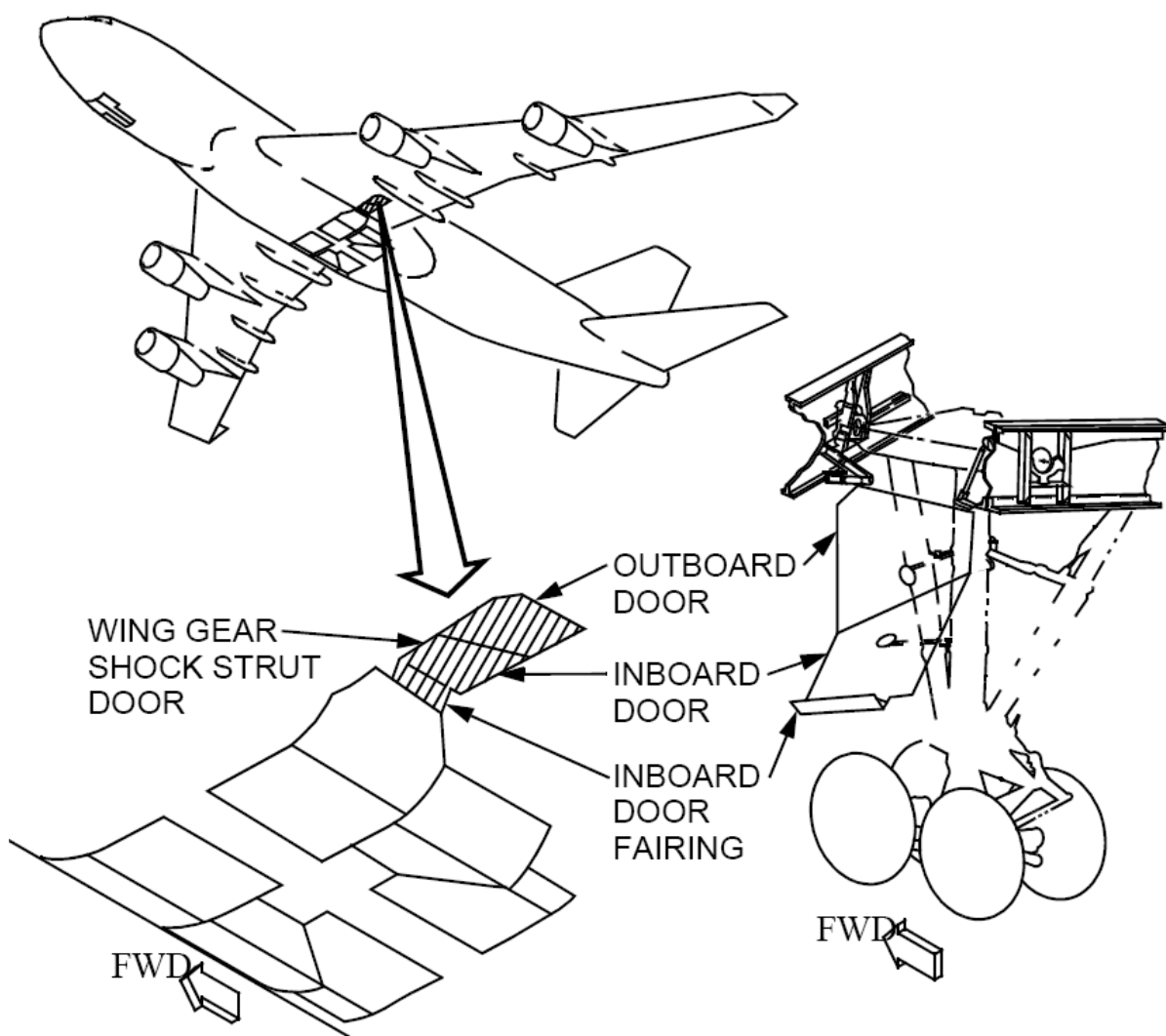
(O) PROCEDURES

32-12-03	WING GEAR SHOCK STRUT INBOARD DOOR FAIRING
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 100 lbs. 2. Takeoff weight may not exceed 720,000 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs.
	LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs.
	OTHER CORRECTIONS (Manual Weight & Balance Worksheet only) Enter Structural Takeoff Weight of 720,000 lbs. under Aircraft Weight Limitations.

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(M) PROCEDURES

Place the Gear Down Dispatch switch in the Main Equipment Center to GEAR DOWN DISPATCH position.



NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD			REPAIR CATEGORY		
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
32-14-01	Body Gear Shock Strut Inboard Door “DISP.APPR.REQ'D”	N	2	1	(O)(M) One Body Gear Shock Strut Inboard Door may be missing provided: a) Maximum airspeed limits are 270 KCAS/0.73 Mach, b) Mach-airspeed aural warning, VMO pointer, and MMO indicator must be reset in the main equipment center, and c) Performance corrections are applied. NOTE 1: This item does not require operation with landing gear extended. Landing gear will be retracted for flight. NOTE 2: This CDL item may not be applied in combination with CDL item 32-14-02.

CDL ITEM	TAB LOCATION	PLACARD TEXT
32-14-01	N/A	___ Body Gear Shock Strut Inboard Door missing

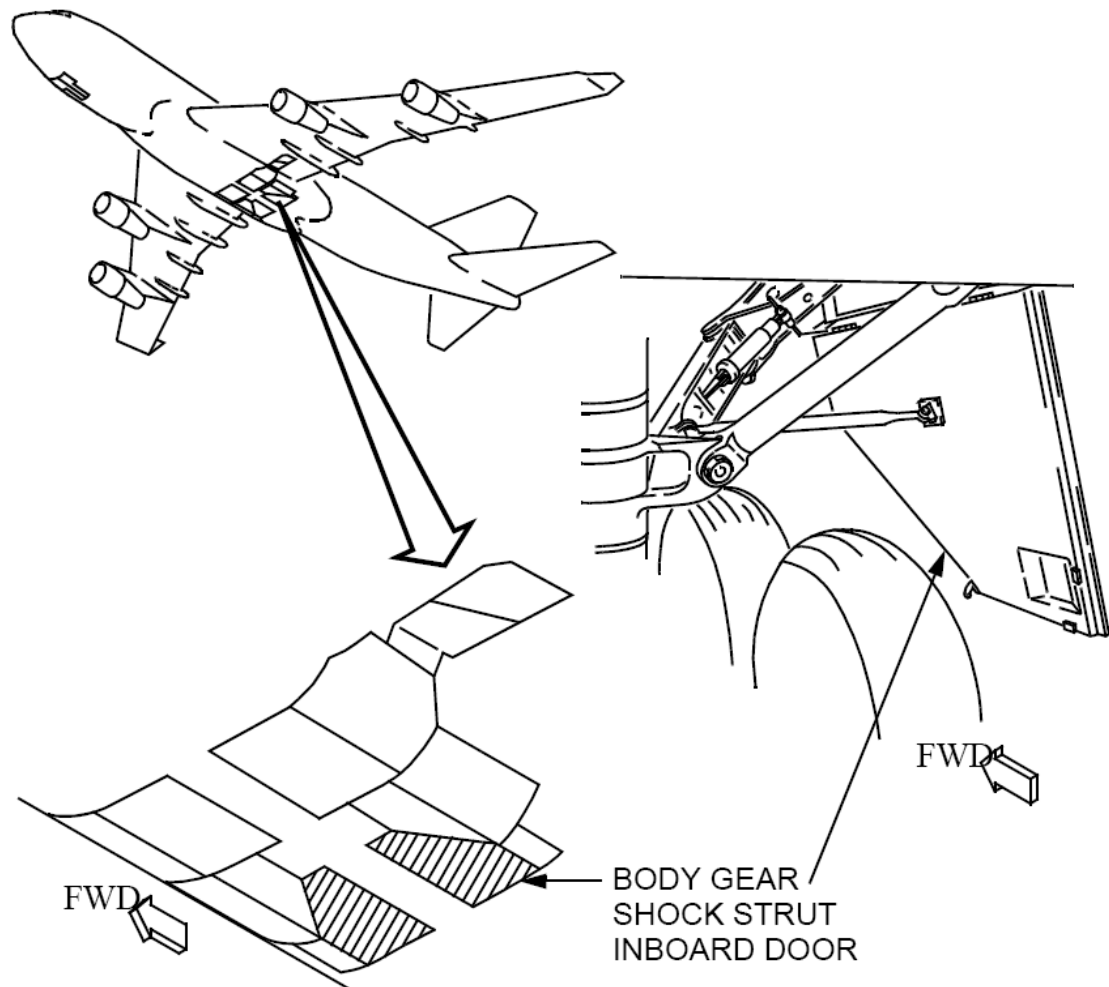
(O) PROCEDURES

32-14-01	BODY GEAR SHOCK STRUT INBOARD DOOR
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 1,720 lbs. 2. Increase BLOCK FUEL by 0.43%. 3. Takeoff weight may not exceed 720,000 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 560 lbs. 2. Reduce T/O CLIMB LIMIT by 560 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 560 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 560 lbs. OTHER CORRECTIONS (Manual Weight & Balance Worksheet only) Enter Structural Takeoff Weight of 720,000 lbs. under Aircraft Weight Limitations.

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(M) PROCEDURES

Place the Gear Down Dispatch switch in the Main Equipment Center to GEAR DOWN DISPATCH position.



NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD			REPAIR CATEGORY		
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
32-14-02	Body Gear Shock Strut Outboard Door “DISP.APPR.REQ'D”	N	2	1	(O)(M) One Body Gear Shock Strut Outboard Door may be missing provided: a) Maximum airspeed limits are 270 KCAS/0.73 Mach, b) Mach-airspeed aural warning, VMO pointer, and MMO indicator must be reset in the main equipment center, and c) Performance corrections are applied. NOTE 1: This item does not require operation with landing gear extended. Landing gear will be retracted for flight. NOTE 2: This CDL item may not be applied in combination with CDL item 32-14-01.

CDL ITEM	TAB LOCATION	PLACARD TEXT
32-14-02	N/A	___ Body Gear Shock Strut Outboard Door missing

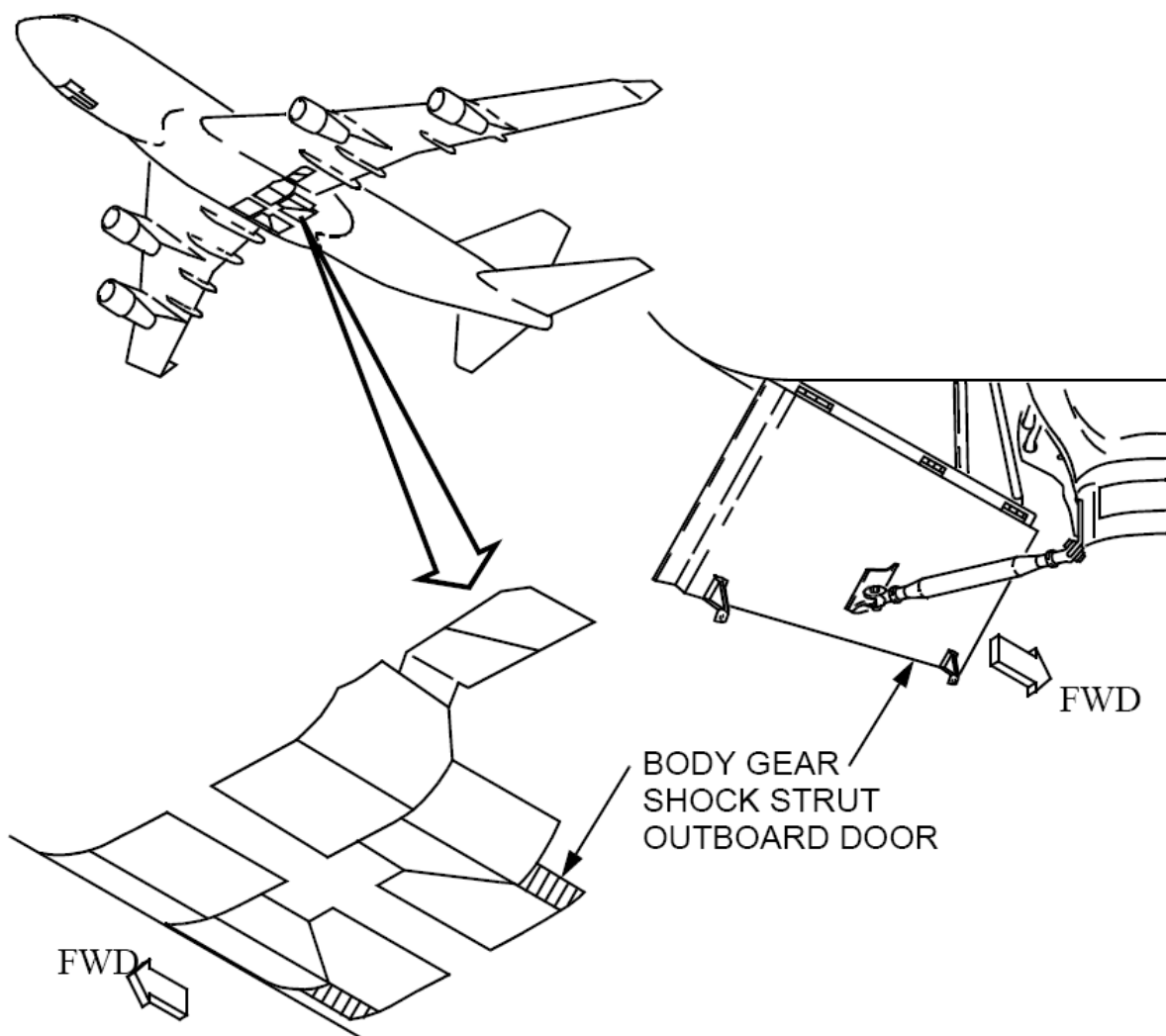
(O) PROCEDURES

32-14-02	BODY GEAR SHOCK STRUT OUTBOARD DOOR
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 320 lbs. 2. Increase BLOCK FUEL by 0.08%. 3. Takeoff weight may not exceed 720,000 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 110 lbs. 2. Reduce T/O CLIMB LIMIT by 110 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 110 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 110 lbs. OTHER CORRECTIONS (Manual Weight & Balance Worksheet only) Enter Structural Takeoff Weight of 720,000 lbs. under Aircraft Weight Limitations.

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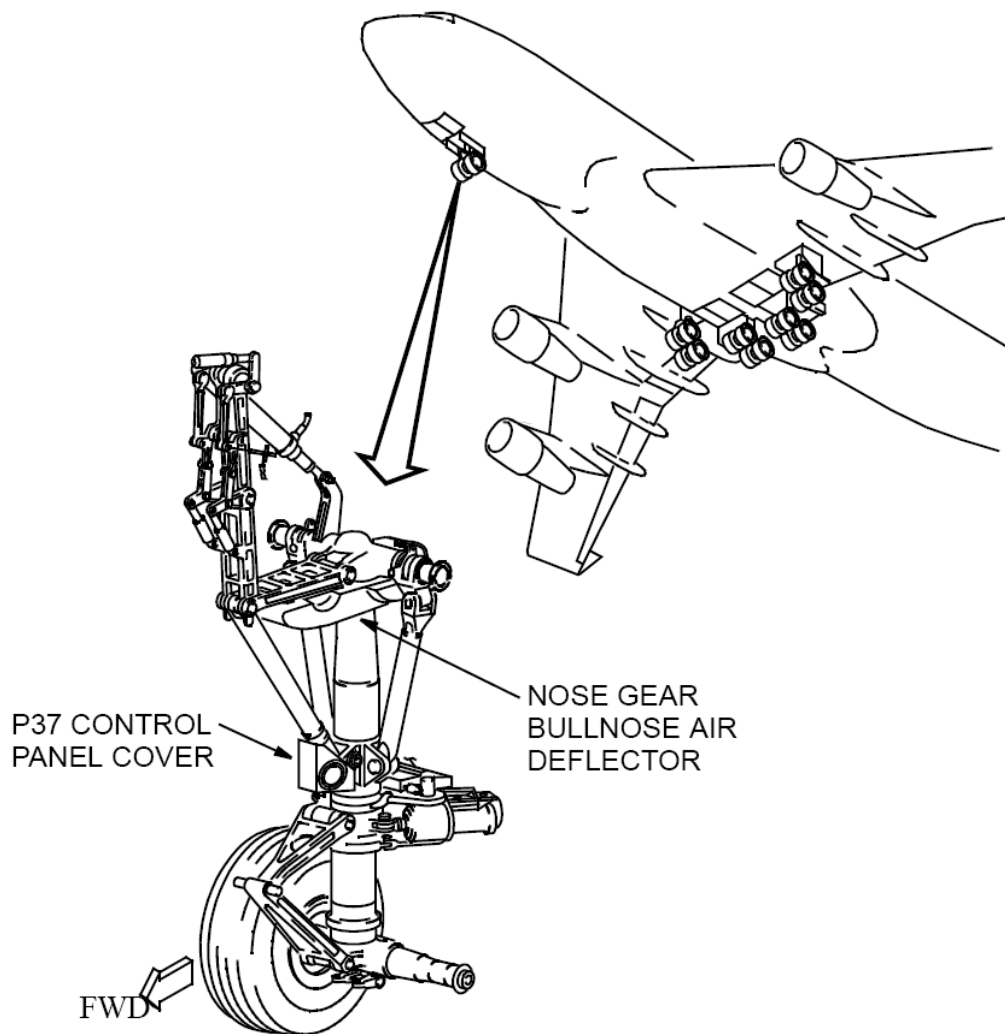
(M) PROCEDURES

Place the Gear Down Dispatch switch in the Main Equipment Center to GEAR DOWN DISPATCH position.



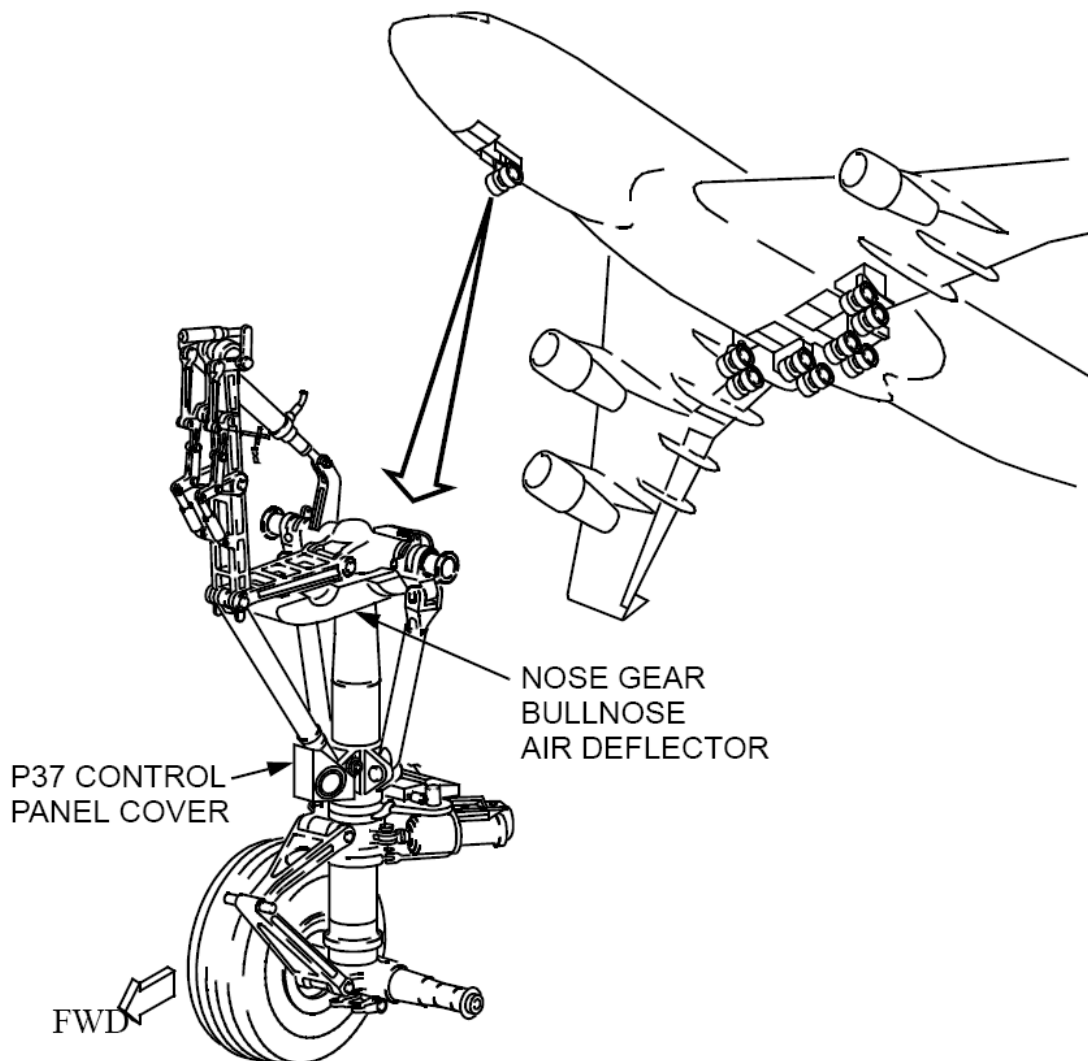
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
32-21-01	P37 Control Panel Cover (On Nose Gear) "DISP.APPR.REQ'D"	N	1	0	May be missing with no penalty. NOTE: This CDL item <u>may</u> be applied in combination with CDL item 32-21-02.

CDL ITEM	TAB LOCATION	PLACARD TEXT
32-21-01	N/A	P37 Control Panel Cover (On Nose Gear) missing



NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
32-21-02	Nose Gear Bullnose Air Deflector "DISP.APPR.REQ'D"	N	1	0	May be missing with no penalty. NOTE: This CDL item <u>may</u> be applied in combination with CDL item 32-21-01.

CDL ITEM	TAB LOCATION	PLACARD TEXT
32-21-02	N/A	Nose Gear Bullnose Air Deflector missing



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ATA 33 Contents

33-41-01	Wing Illumination Light Covers.....	33-2
33-43-01	Wing-Tip Navigation Light Lens	33-4
33-44-01	Upper and Lower Body Anti-Collision Light Lenses	33-6
33-51-01	Overwing Emergency Light Covers.....	33-8

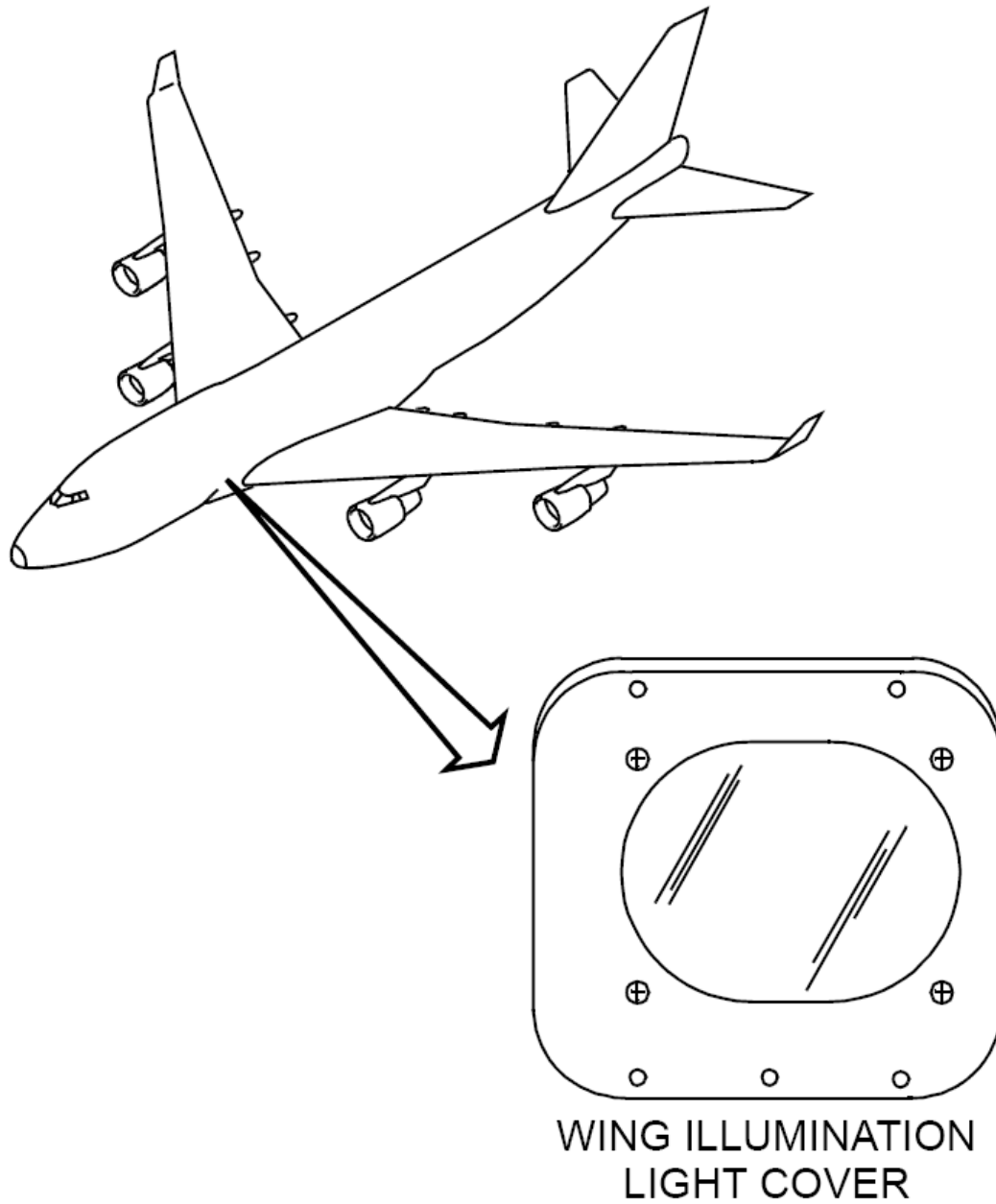
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
33-41-01	Wing Illumination Light Covers "DISP.APPR.REQ'D"	N	2	0	(O) One or both may be missing provided performance corrections are applied.

CDL ITEM	TAB LOCATION	PLACARD TEXT
33-41-01	N/A	___ Wing Illumination Light Cover(s) missing

(O) PROCEDURES

33-41-01	WING ILLUMINATION LIGHT COVERS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF - Reduce RATOW by 100 lbs. - Reduce T/O CLIMB LIMIT by 100 lbs. LANDING - Reduce RWY ALLOWABLE LANDING WT by 100 lbs. - Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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NUMBER INSTALLED			NUMBER REQUIRED FOR DISPATCH		
FLIGHT CREW MAY PLACARD			REPAIR CATEGORY		
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
33-43-01	Wing-Tip Navigation Light Lens “DISP.APPR.REQ'D”	N	2	1	(O)(M) One may be missing provided: a) If a wing-tip navigation light lens is missing or damaged, the affected winglet and all of its fairings must be removed, b) Wing tip position light is considered inoperative and deferred per MEL 33-43-01B, c) PRIOR TO EACH DEPARTURE, verify speed tape is still in position and in good condition (Log Book Entry Required), and d) Performance corrections are applied. Repetitive Check Required (Yellow Placard)

CDL ITEM	TAB LOCATION	PLACARD TEXT
33-43-01	N/A	___ Wing-Tip Navigation Light Lens missing

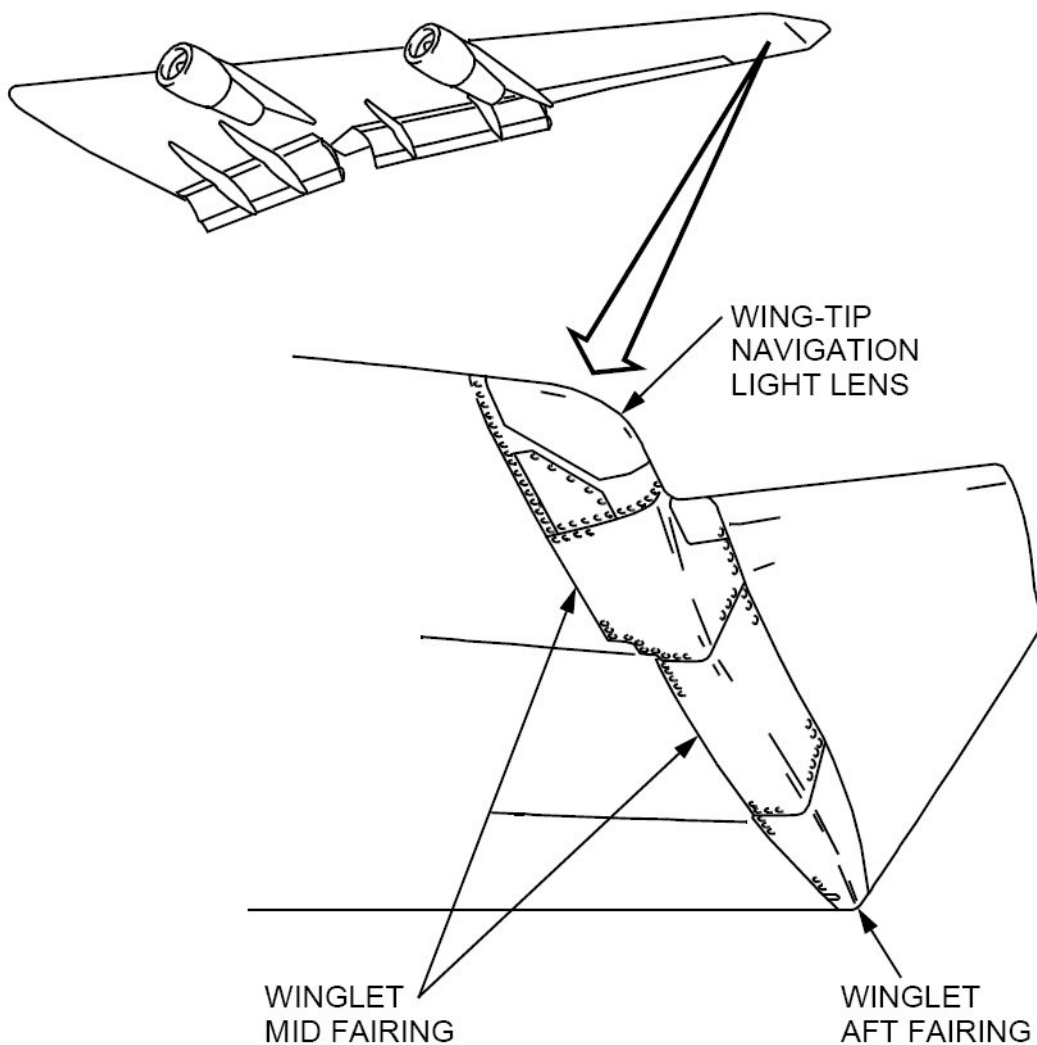
(O) PROCEDURES

33-43-01	WING-TIP NAVIGATION LIGHT LENS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 10,900 lbs. 2. Increase BLOCK FUEL by 2.73%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 21,100 lbs. 2. Reduce T/O CLIMB LIMIT by 21,100 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 21,100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 21,100 lbs.

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(M) PROCEDURES

1. The affected winglet and all its fairings must be removed per AMM.
2. For a missing lens, disconnect electrical power and remove light bulbs, reflector, lens cover and lens cover support.
3. Cover the light assembly opening with speed tape.
4. **PRIOR TO EACH DEPARTURE:**
 - a. Verify speed tape is still in position and in good condition.



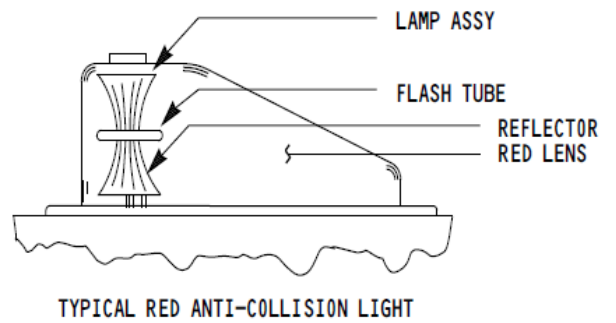
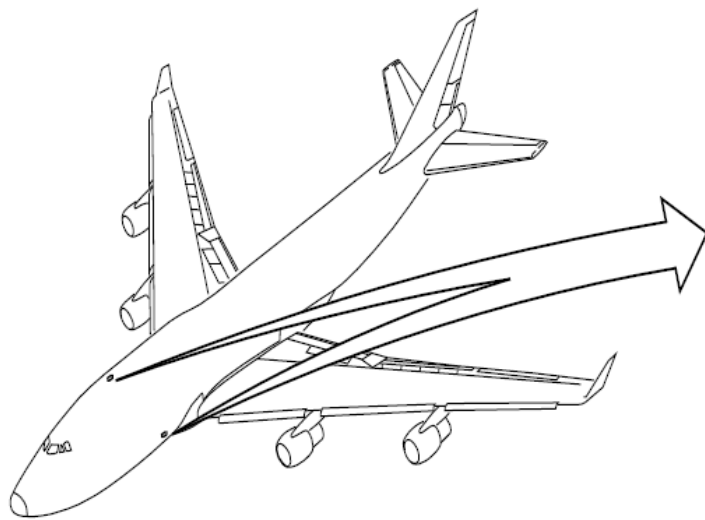
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
33-44-01	Upper and Lower Body Anti-Collision Light Lenses "DISP.APPR.REQ'D"	N	2	0	(M) One or both lenses may be missing with no penalty provided: a) If both lenses are missing the wing anti-collision lights must be fully operative, b) Upper and/or lower anti-collision light is considered inoperative and deferred per MEL 33-44-01A or 33-44-01B as appropriate, and c) PRIOR TO EACH DEPARTURE, verify speed tape is still in position and in good condition (Log Book Entry Required). Repetitive Check Required (Yellow Placard)

CDL ITEM	TAB LOCATION	PLACARD TEXT
33-44-01	N/A	___ Anti-Collision Light Lens(es) missing

(M) PROCEDURES

- Set the overhead panel (P5) BEACON switch OFF.
- Open the P6 panel RED ANTI-COLLISION LTS circuit breaker.
- Gain access to the associated beacon light.
- Disconnect, cap and stow power input connector to associated anti-collision light power supply (AMM 33-44-09/401).
- Remove the associated flash tube.
- With rest of light assembly intact, cover the opening with speed tape to prevent moisture or debris from entering into light assembly.
- Close the opened circuit breaker.
- For upper beacon light inoperative, set the overhead panel (P5) BEACON switch to LWR.
- For lower beacon light inoperative or both beacon lights inoperative, set the overhead panel (P5) BEACON switch OFF.
- PRIOR TO EACH DEPARTURE:**
 - Verify speed tape is still in position and in good condition.

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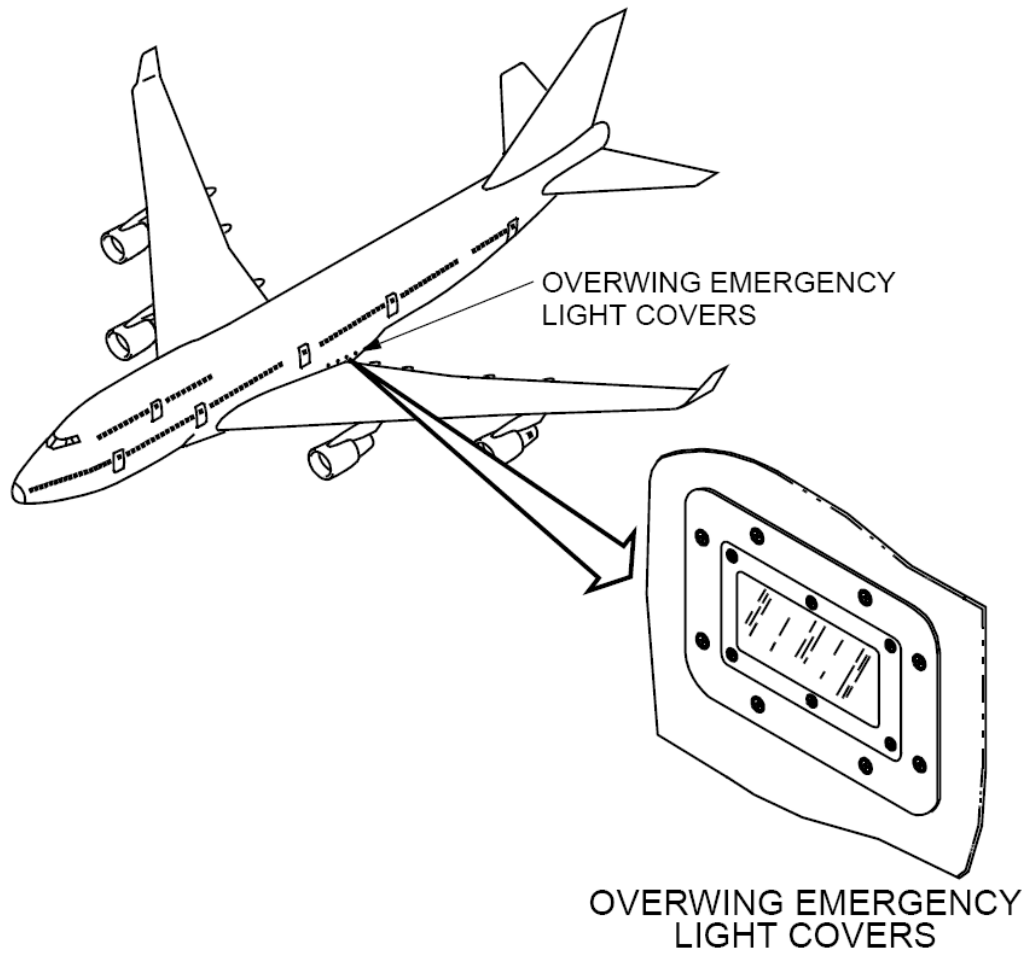
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
33-51-01	Overwing Emergency Light Covers "DISP.APPR.REQ'D"	N	8	0	(O) Any or all may be missing provided performance corrections are applied.

CDL ITEM	TAB LOCATION	PLACARD TEXT
33-51-01	N/A	___ Overwing Emergency Light Cover missing

(O) PROCEDURES

33-51-01	OVERWING EMERGENCY LIGHT COVERS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF - Reduce RATOW by 100 lbs. - Reduce T/O CLIMB LIMIT by 100 lbs. LANDING - Reduce RWY ALLOWABLE LANDING WT by 100 lbs. - Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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ATA 52 Contents

52-11-01	Main Entry Door Mid and Aft Hinge Fairings	52-2
52-11-02	Main Entry Door Forward Hinge Fairings	52-4
52-49-01	External Power Receptacle Door	52-5
52-49-02	Pneumatic Ground Service Door	52-7
52-49-03	Toilet Service Door	52-9
52-49-04	Cargo Door Switch Access Panels.....	52-11
52-49-05	CWT Sump Drain Access Panels.....	52-13

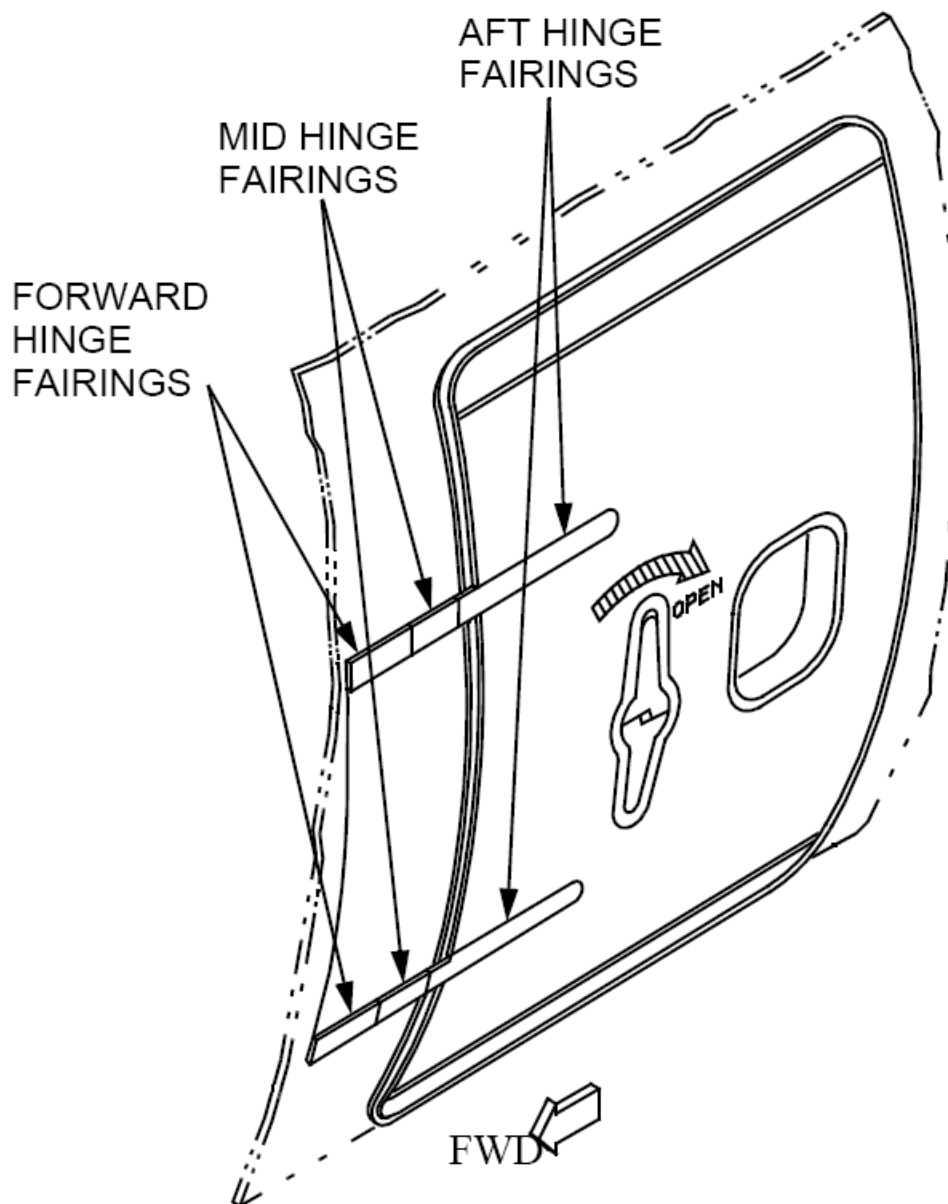
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
52-11-01	Main Entry Door Mid and Aft Hinge Fairings (Small Fairings Installed over Hinge Attachment Points; 2 at Upper Hinge Attachment and 2 at Lower Hinge Attachment) "DISP.APPR.REQ'D"	N	40	32	(O) May be missing from two main entry doors in any combination (Maximum total of 8 fairings missing) provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item 52-11-02.

CDL ITEM	TAB LOCATION	PLACARD TEXT
52-11-01	N/A	___ Main Entry Door Fairing(s) missing

(O) PROCEDURES

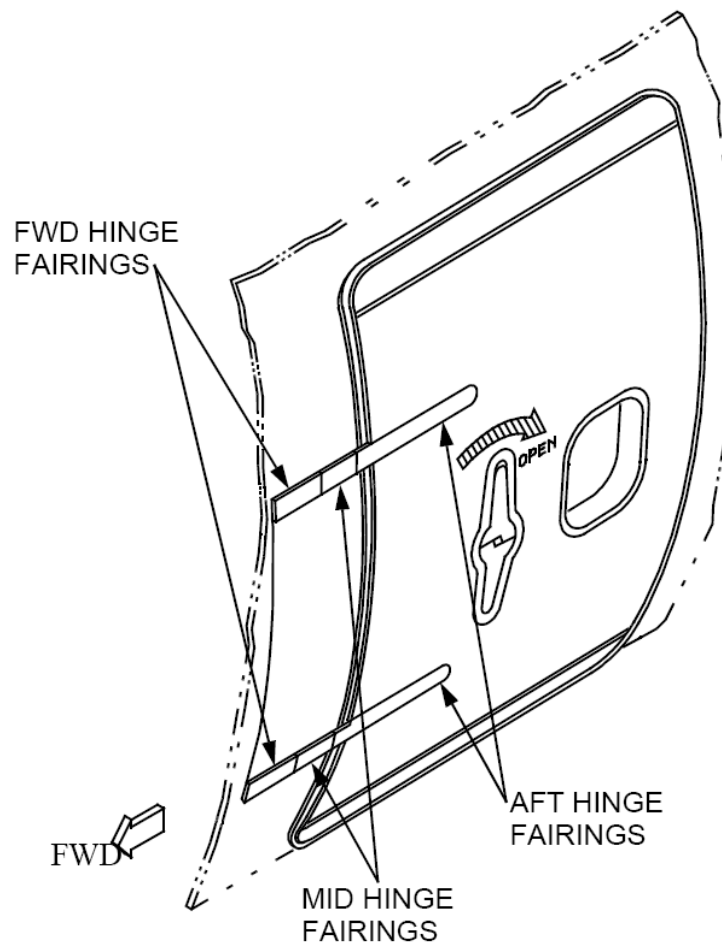
52-11-01	MAIN ENTRY DOOR MID AND AFT HINGE FAIRINGS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF - Reduce RATOW by 100 lbs. - Reduce T/O CLIMB LIMIT by 100 lbs. LANDING - Reduce RWY ALLOWABLE LANDING WT by 100 lbs. - Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
52-11-02	Main Entry Door Forward Hinge Fairings (Small Fairings Installed over Hinge Attachment Points; One at Upper Hinge Attachment and One at Lower Hinge Attachment) "DISP.APPR.REQ'D"	N	20	12	A total of eight may be missing with no penalty. NOTE: This CDL item may not be applied in combination with CDL item 52-11-01.

CDL ITEM	TAB LOCATION	PLACARD TEXT
52-11-02	N/A	___ Main Entry Door Fairing(s) missing



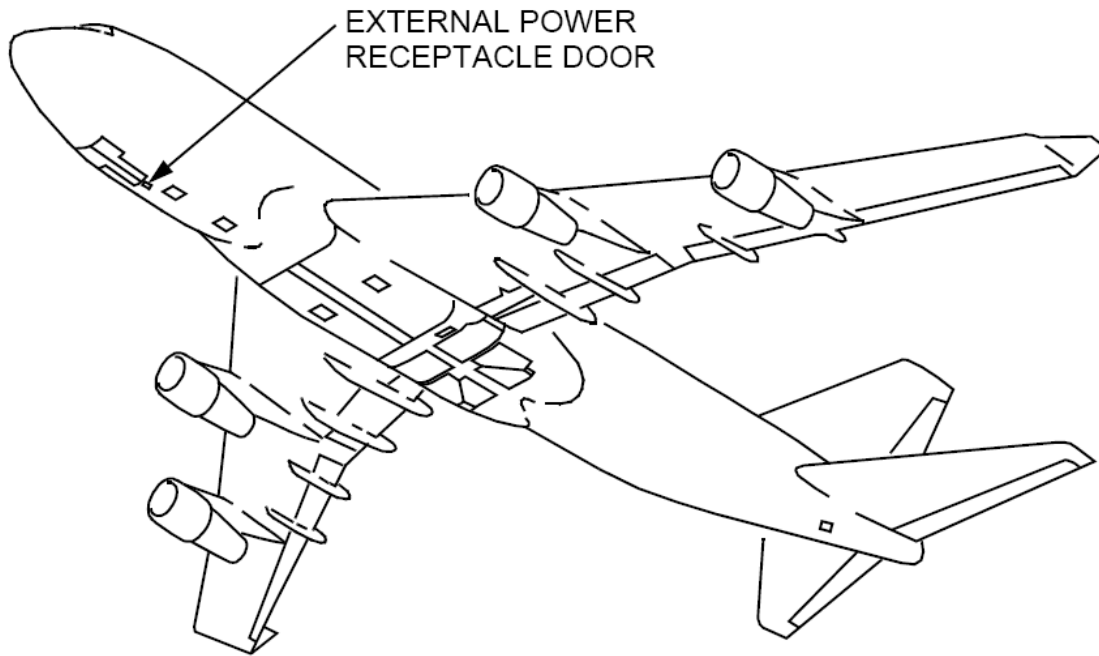
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
52-49-01	External Power Receptacle Door "DISP.APPR.REQ'D"	N	1	0	(O) May be missing provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item(s): 52-49-02, 52-49-03, 52-49-04, 52-49-05.

CDL ITEM	TAB LOCATION	PLACARD TEXT
52-49-01	N/A	External Power Receptacle Door missing

(O) PROCEDURES

52-49-01	EXTERNAL POWER RECEPTACLE DOOR
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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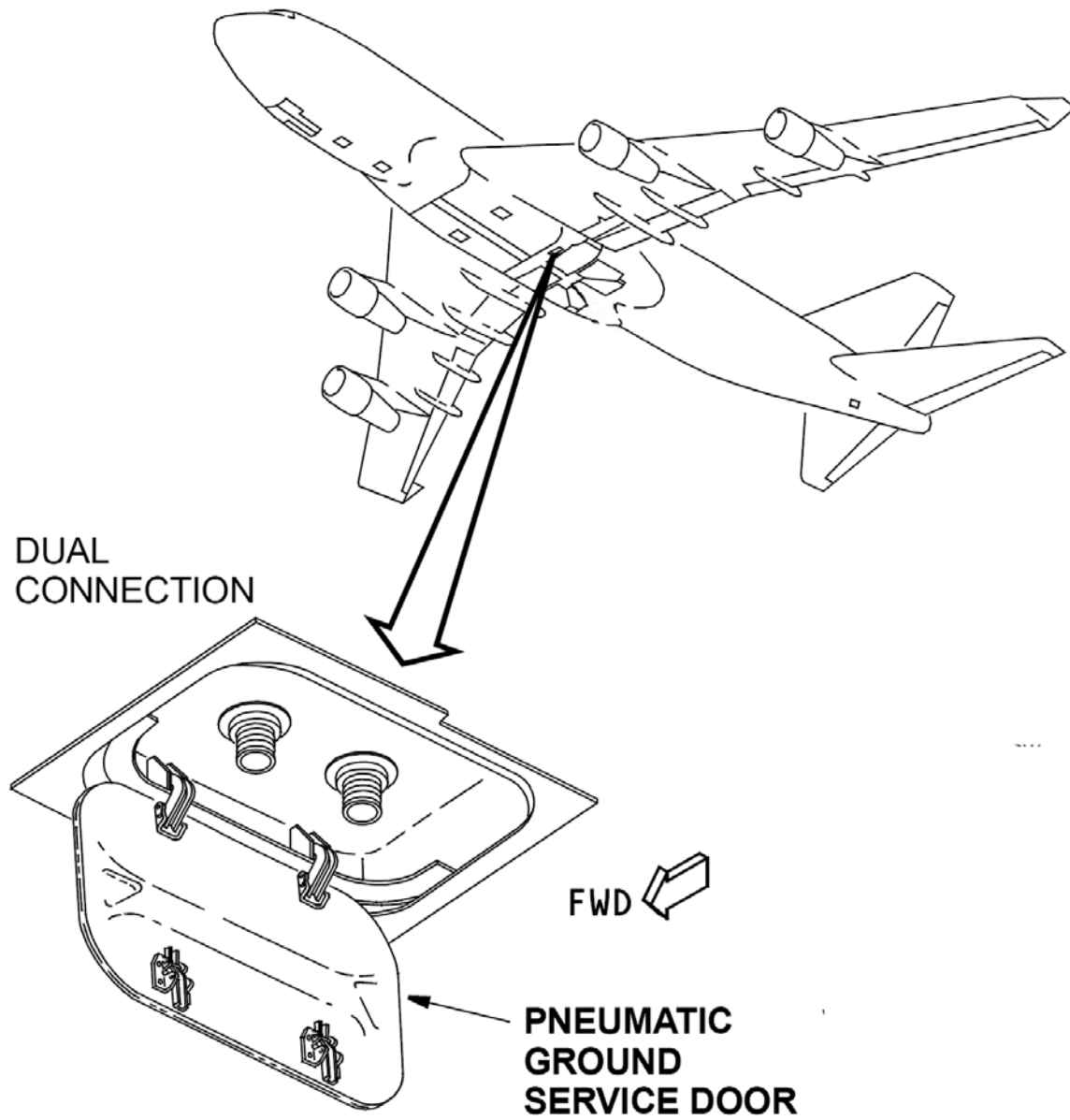
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
52-49-02	Pneumatic Ground Service Door "DISP.APPR.REQ'D"	N	1	0	(O) May be missing provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item(s): 52-49-01, 52-49-03, 52-49-04, 52-49-05.

CDL ITEM	TAB LOCATION	PLACARD TEXT
52-49-02	N/A	Pneumatic Ground Service Door missing

(O) PROCEDURES

52-49-02	PNEUMATIC GROUND SERVICE DOOR
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 150 lbs. 2. Increase BLOCK FUEL by 0.04%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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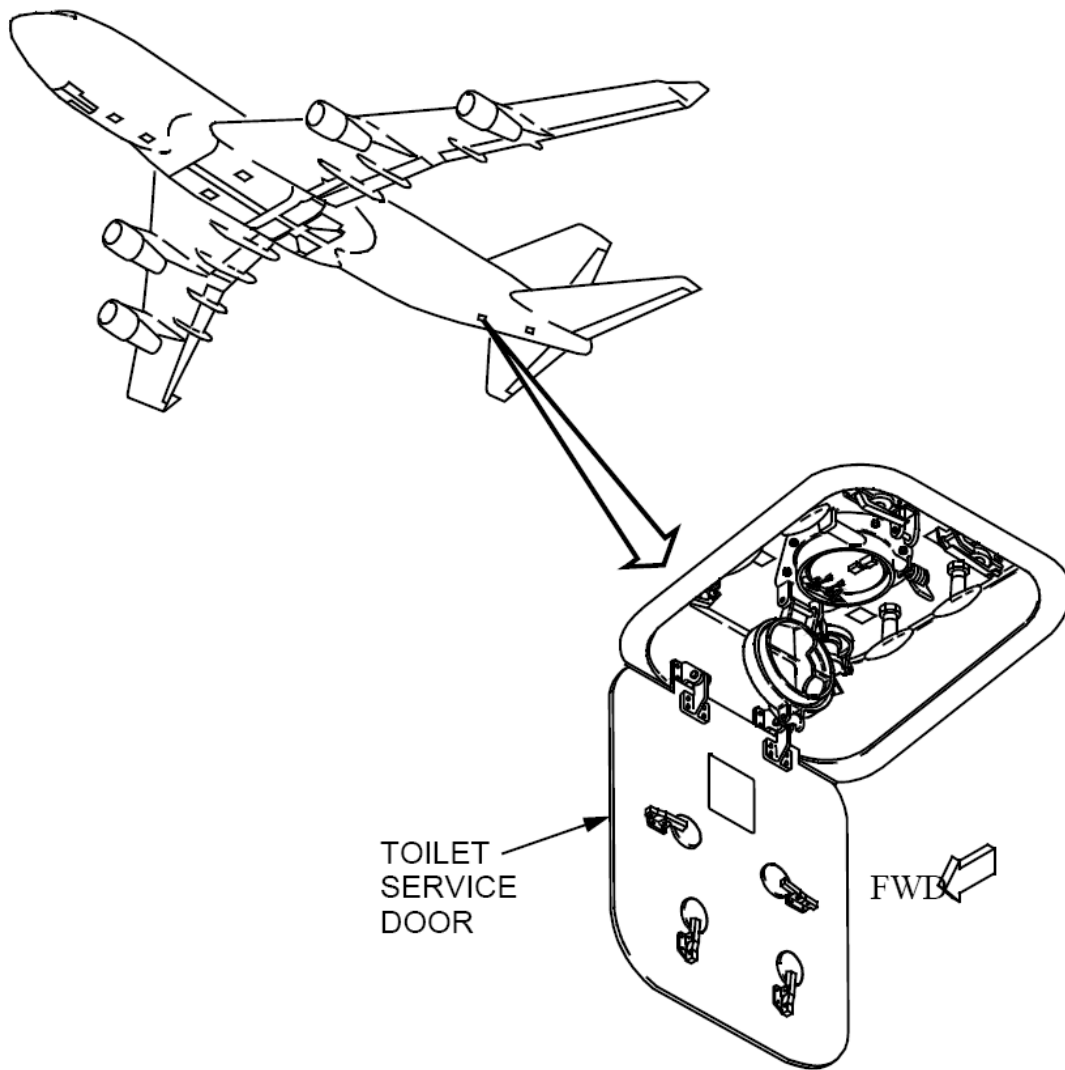
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
52-49-03	Toilet Service Door "DISP.APPR.REQ'D"	N	1	0	(O) May be missing provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item(s): 52-49-01, 52-49-02, 52-49-04, 52-49-05.

CDL ITEM	TAB LOCATION	PLACARD TEXT
52-49-03	N/A	Toilet Service Door missing

(O) PROCEDURES

52-49-03	TOILET SERVICE DOOR
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 150 lbs. 2. Increase BLOCK FUEL by 0.04%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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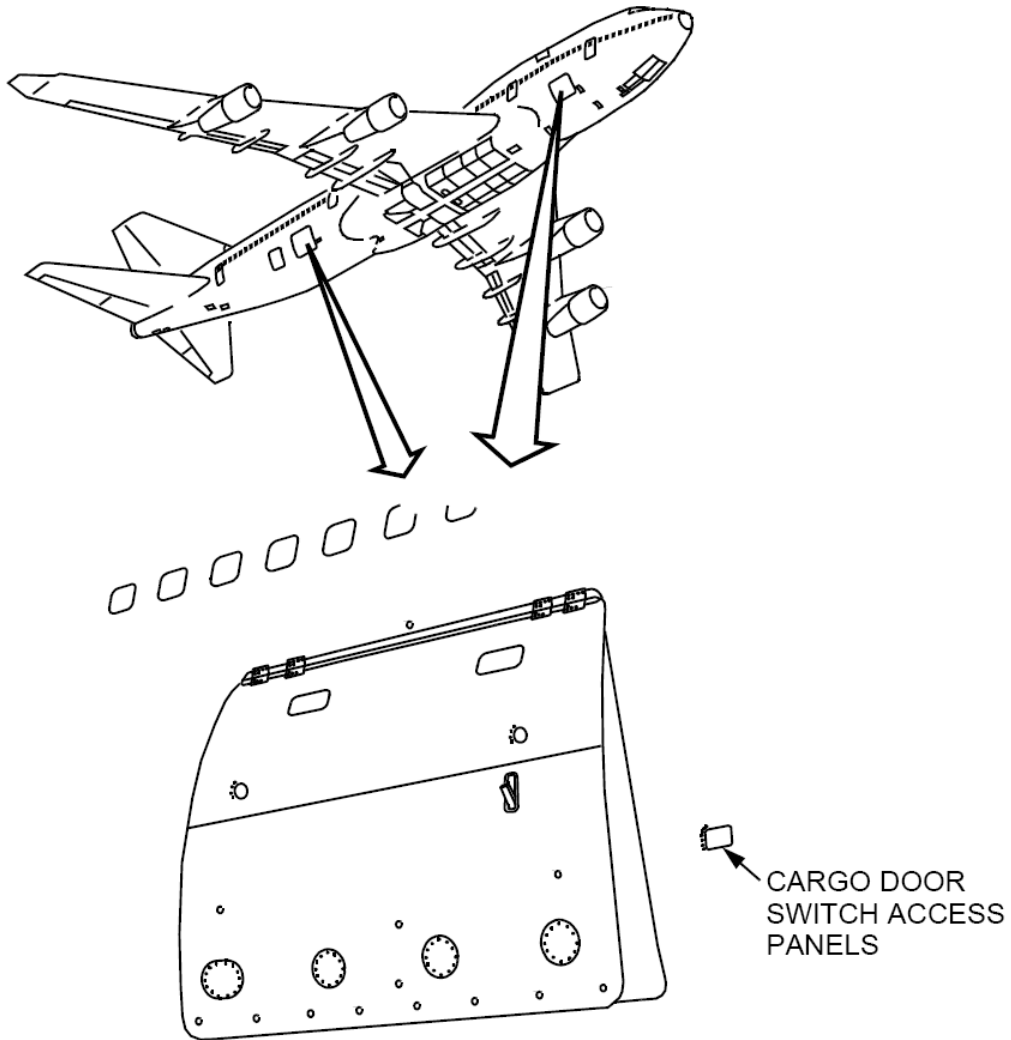
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
52-49-04	Cargo Door Switch Access Panels "DISP.APPR.REQ'D"	N	2	0	(O) One or both may be missing provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL items(s): 52-49-01, 52-49-02, 52-49-03, 52-49-05.

CDL ITEM	TAB LOCATION	PLACARD TEXT
52-49-04	N/A	___ Cargo Door Switch Access Panel(s) missing

(O) PROCEDURES

52-49-04	CARGO DOOR SWITCH ACCESS PANELS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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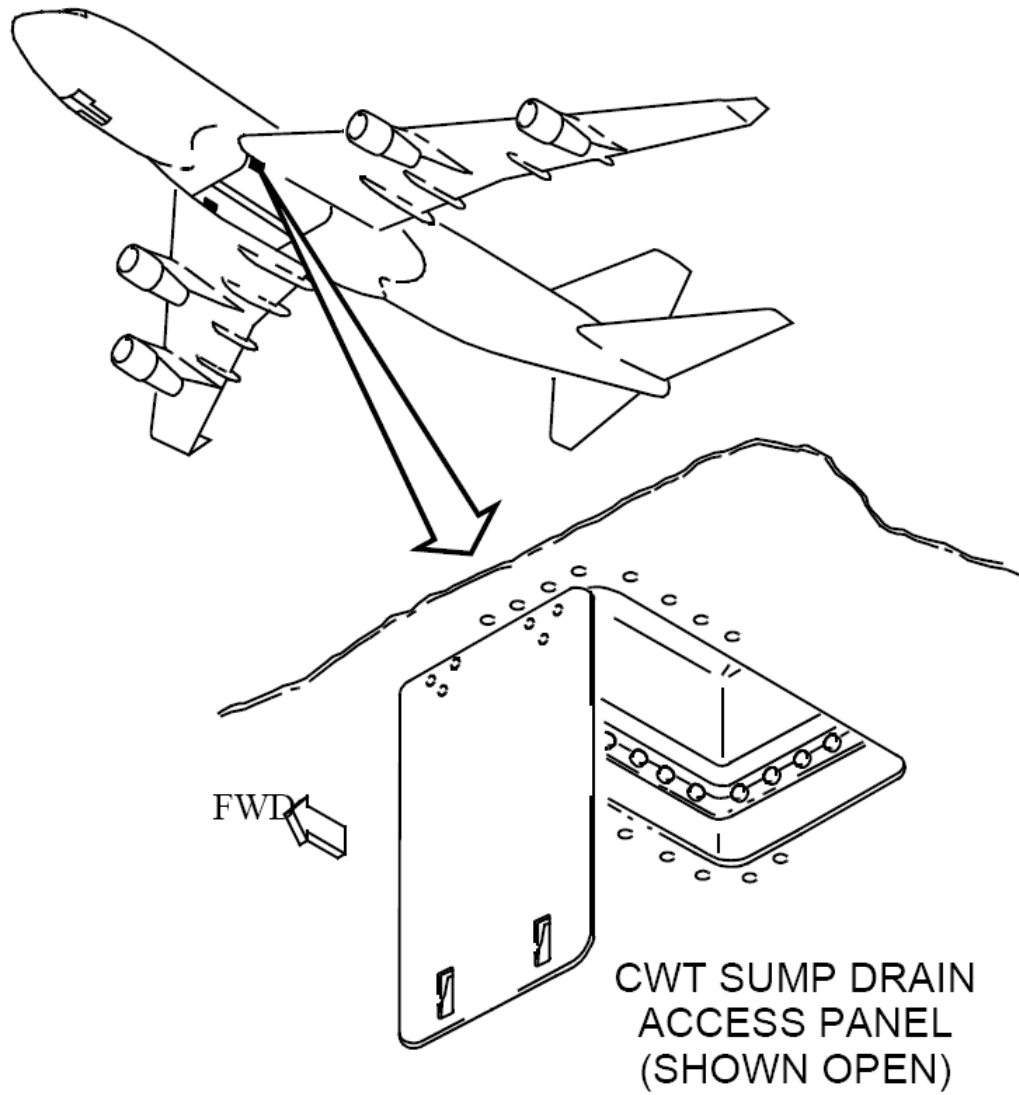
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
52-49-05	CWT Sump Drain Access Panels "DISP.APPR.REQ'D"	N	2	0	(O) One or both may be missing provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item(s): 52-49-01, 52-49-02, 52-49-03, 52-49-04.

CDL ITEM	TAB LOCATION	PLACARD TEXT
52-49-05	N/A	___ CWT Sump Drain Access Panel missing

(O) PROCEDURES

52-49-05	CWT SUMP DRAIN ACCESS PANELS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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ATA 53 Contents

53-51-01	Wing-to-Body Fillet Fairing	53-2
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NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
53-51-01	Wing-to-Body Fillet Fairing "DISP.APPR.REQ'D"	N	2	0	(O)(M) One or both may be missing provided: a) Maximum airspeed limits are 270 KCAS/0.73 Mach, b) Mach-airspeed aural warning, VMO pointer, and MMO indicator must be reset in the main equipment center, and c) Performance corrections are applied. NOTE 1: This item does not require operation with landing gear extended. Landing gear will be retracted for flight. NOTE 2: This item is for the fairing adjacent to the fixed wing trailing edge upper panel.

CDL ITEM	TAB LOCATION	PLACARD TEXT
53-51-01	N/A	___ Wing-to-Body Fillet Fairing missing

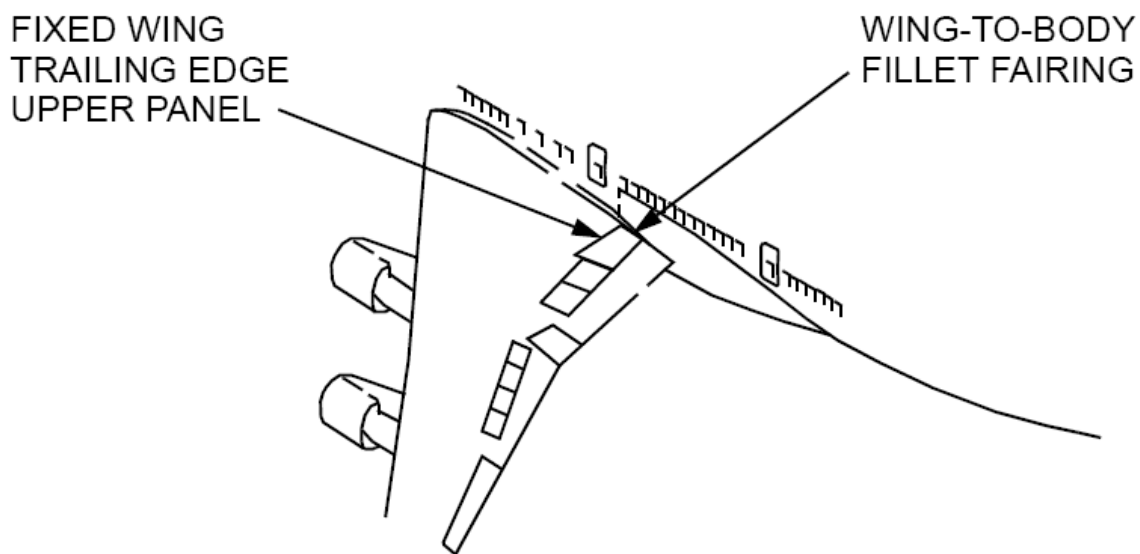
(O) PROCEDURES

53-51-01	WING-TO-BODY FILLET FAIRING
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 180 lbs. for each missing fairing. 2. Increase BLOCK FUEL by 0.05% for each missing fairing. 3. Takeoff weight may not exceed 720,000 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. for each missing fairing. 2. Reduce T/O CLIMB LIMIT by 100 lbs. for each missing fairing. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. for each missing fairing. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs. for each missing fairing. OTHER CORRECTIONS (Manual Weight & Balance Worksheet only) Enter Structural Takeoff Weight of 720,000 lbs. under Aircraft Weight Limitations.

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(M) PROCEDURES

1. Place the Gear Down Dispatch switch in the Main Equipment Center to GEAR DOWN DISPATCH position.
2. Removal of the wing-to-body fillet fairing exposes a longeron splice fitting on the side of the body. This longeron splice fitting must be thoroughly speed taped.



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	B747-400 Configuration Deviation List	ATA 54 Nacelles & Pylons	R0 05/24/10 Page 54-1
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ATA 54 Contents

54-32-01A	Nacelle Strut Access Doors (Includes Pylon Valve Access Doors)	54-2
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NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION			REMARKS OR EXCEPTIONS	
54-32-01A	Nacelle Strut Access Doors (Includes Pylon Valve Access Doors) (#2 Inboard Nacelle Strut) [462 FL, GL, HL, ER] "DISP.APPR.REQ'D"	N	76	-	(O) Any number of the specified doors may be missing provided performance corrections are applied. NOTE: See Figure 1 for door locations.
54-32-01B	Nacelle Strut Access Doors (Includes Pylon Valve Access Doors) (#3 Inboard Nacelle Strut) [472 FL, GL, HL, ER] "DISP.APPR.REQ'D"	N	76	-	(O) Any number of the specified doors may be missing provided performance corrections are applied. NOTE: See Figure 1 for door locations.
54-32-01C	Nacelle Strut Access Doors (Includes Pylon Valve Access Doors) (#1 Outboard Nacelle Strut) [452 GL, FR] "DISP.APPR.REQ'D"	N	76	-	(O) Any number of the specified doors may be missing provided performance corrections are applied. NOTE: See Figure 1 for door locations.
54-32-01D	Nacelle Strut Access Doors (Includes Pylon Valve Access Doors) (#4 Outboard Nacelle Strut) [482 GL, FR] "DISP.APPR.REQ'D"	N	76	-	(O) Any number of the specified doors may be missing provided performance corrections are applied. NOTE: See Figure 1 for door locations.
54-32-01E	Nacelle Strut Access Doors (Includes Pylon Valve Access Doors) (#1 Outboard Nacelle Strut) [452 GR, ER, FL] "DISP.APPR.REQ'D"	N	76	-	(O) Any number of the specified doors may be missing provided performance corrections are applied. NOTE: See Figure 1 for door locations.
54-32-01F	Nacelle Strut Access Doors (Includes Pylon Valve Access Doors) (#4 Outboard Nacelle Strut) [482 GR, ER, FL] "DISP.APPR.REQ'D"	N	76	-	(O) Any number of the specified doors may be missing provided performance corrections are applied. NOTE: See Figure 1 for door locations.

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CDL ITEM	TAB LOCATION	PLACARD TEXT
54-32-01A	N/A	___ Nacelle Strut Access Door missing
54-32-01B	N/A	___ Nacelle Strut Access Door missing
54-32-01C	N/A	___ Nacelle Strut Access Door missing
54-32-01D	N/A	___ Nacelle Strut Access Door missing
54-32-01E	N/A	___ Nacelle Strut Access Door missing
54-32-01F	N/A	___ Nacelle Strut Access Door missing

(O) PROCEDURES

54-32-01A

54-32-01A	NACELLE STRUT ACCESS DOORS (INCLUDES PYLON VALVE ACCESS DOORS) (#2 Inboard Nacelle Strut)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	<u>One Door Missing:</u> Reduce ENROUTE LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce ENROUTE LIMIT WT by 2,750 lbs. 2. Increase BLOCK FUEL by 0.69%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF <u>One Door Missing:</u> 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RATOW by 900 lbs. 2. Reduce T/O CLIMB LIMIT by 900 lbs. LANDING <u>One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 900 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 900 lbs.

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(O) PROCEDURES

54-32-01B

54-32-01B	NACELLE STRUT ACCESS DOORS (INCLUDES PYLON VALVE ACCESS DOORS) (#3 Inboard Nacelle Strut)
EFFECTIVITY FLIGHT PLANNING REQUIREMENTS	All <u>One Door Missing:</u> Reduce ENROUTE LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce ENROUTE LIMIT WT by 2,750 lbs. 2. Increase BLOCK FUEL by 0.69%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF <u>One Door Missing:</u> 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RATOW by 900 lbs. 2. Reduce T/O CLIMB LIMIT by 900 lbs. LANDING <u>One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 900 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 900 lbs.

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54-32-01C

54-32-01C	NACELLE STRUT ACCESS DOORS (INCLUDES PYLON VALVE ACCESS DOORS) (#1 Outboard Nacelle Strut)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	<u>One Door Missing:</u> Reduce ENROUTE LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce ENROUTE LIMIT WT by 500 lbs. 2. Increase BLOCK FUEL by 0.13%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF <u>One Door Missing:</u> 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RATOW by 150 lbs. 2. Reduce T/O CLIMB LIMIT by 150 lbs. LANDING <u>One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 150 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 150 lbs.

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54-32-01D

54-32-01D	NACELLE STRUT ACCESS DOORS (INCLUDES PYLON VALVE ACCESS DOORS) (#4 Outboard Nacelle Strut)
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	<u>One Door Missing:</u> Reduce ENROUTE LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce ENROUTE LIMIT WT by 500 lbs. 2. Increase BLOCK FUEL by 0.13%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF <u>One Door Missing:</u> 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RATOW by 150 lbs. 2. Reduce T/O CLIMB LIMIT by 150 lbs. LANDING <u>One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 150 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 150 lbs.

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54-32-01E

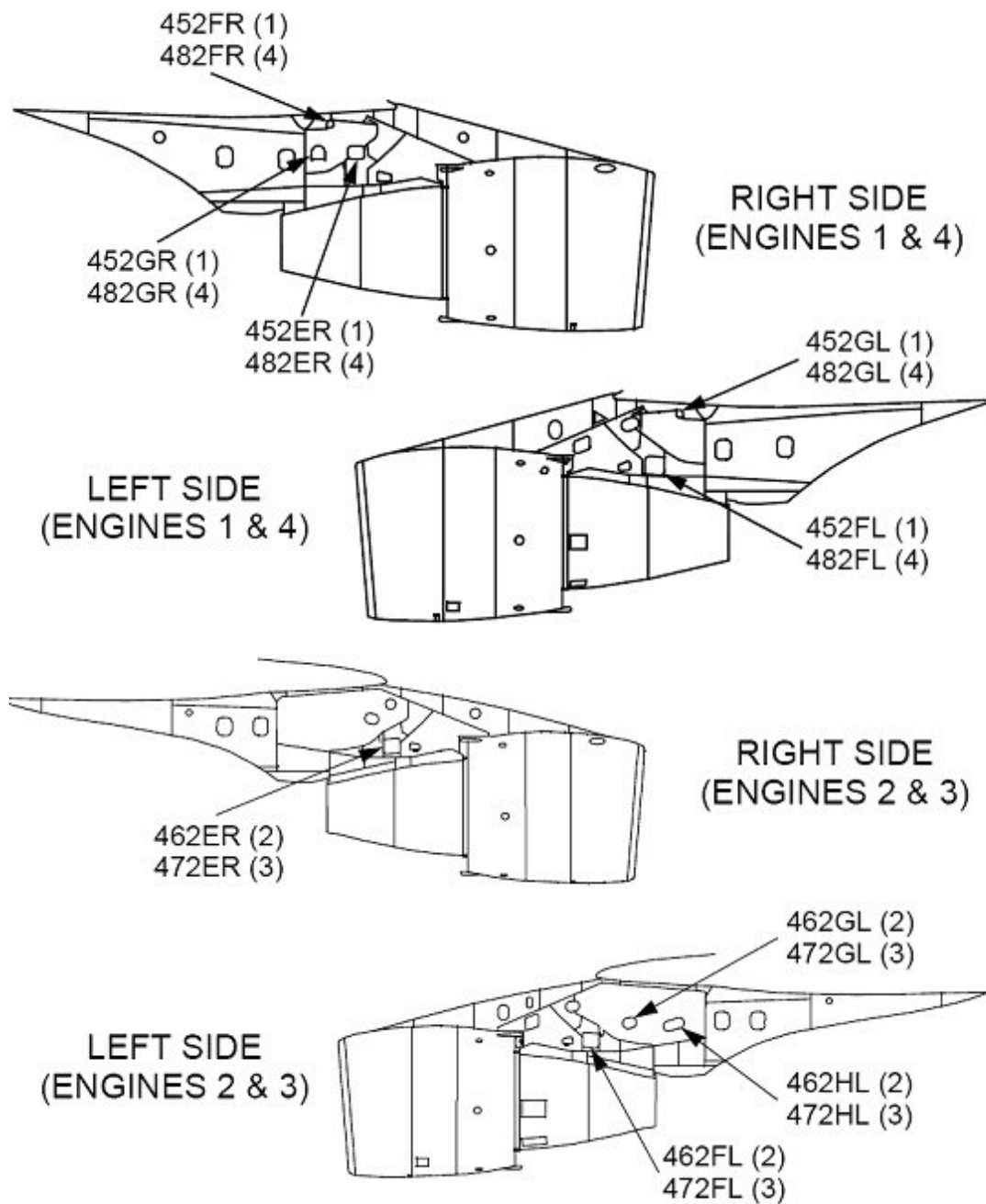
54-32-01E	NACELLE STRUT ACCESS DOORS (INCLUDES PYLON VALVE ACCESS DOORS) (#1 Outboard Nacelle Strut)
EFFECTIVITY FLIGHT PLANNING REQUIREMENTS NOTES	All <u>One Door Missing:</u> Reduce ENROUTE LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce ENROUTE LIMIT WT by 4,050 lbs. 2. Increase BLOCK FUEL by 1.01%. Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF <u>One Door Missing:</u> 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RATOW by 1,300 lbs. 2. Reduce T/O CLIMB LIMIT by 1,300 lbs. LANDING <u>One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 1,300 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 1,300 lbs.

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54-32-01F

54-32-01F	NACELLE STRUT ACCESS DOORS (INCLUDES PYLON VALVE ACCESS DOORS) (#4 Outboard Nacelle Strut)
EFFECTIVITY FLIGHT PLANNING REQUIREMENTS NOTES	All <u>One Door Missing:</u> Reduce ENROUTE LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce ENROUTE LIMIT WT by 4,050 lbs. 2. Increase BLOCK FUEL by 1.01%. Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF <u>One Door Missing:</u> 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RATOW by 1,300 lbs. 2. Reduce T/O CLIMB LIMIT by 1,300 lbs. LANDING <u>One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs. <u>More Than One Door Missing:</u> 1. Reduce RWY ALLOWABLE LANDING WT by 1,300 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 1,300 lbs.

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ACCESS DOORS

Figure 1

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55-20-02	Elevator Outboard Bulb Seals	55-4

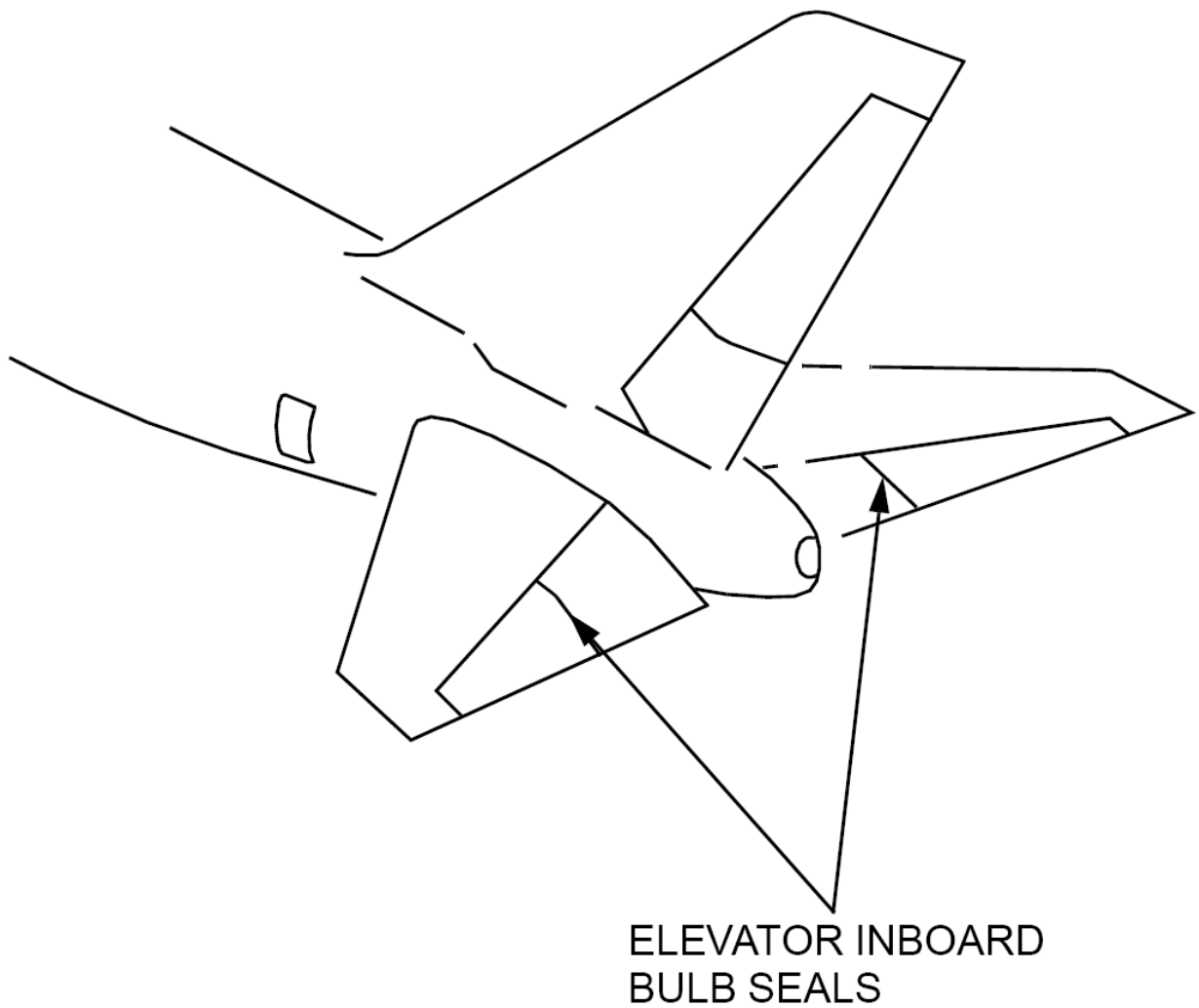
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
55-20-01	Elevator Inboard Bulb Seals "DISP.APPR.REQ'D"	N	2	0	(O) One or both may be missing provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item 55-20-02.

CDL ITEM	TAB LOCATION	PLACARD TEXT
55-20-01	N/A	___ Elevator Inboard Bulb Seal(s) missing

(O) PROCEDURES

55-20-01	ELEVATOR INBOARD BULB SEALS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 200 lbs. for each missing seal. 2. Increase BLOCK FUEL by 0.05% for each missing seal.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. for each missing seal. 2. Reduce T/O CLIMB LIMIT by 100 lbs. for each missing seal. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. for each missing seal. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs. for each missing seal.

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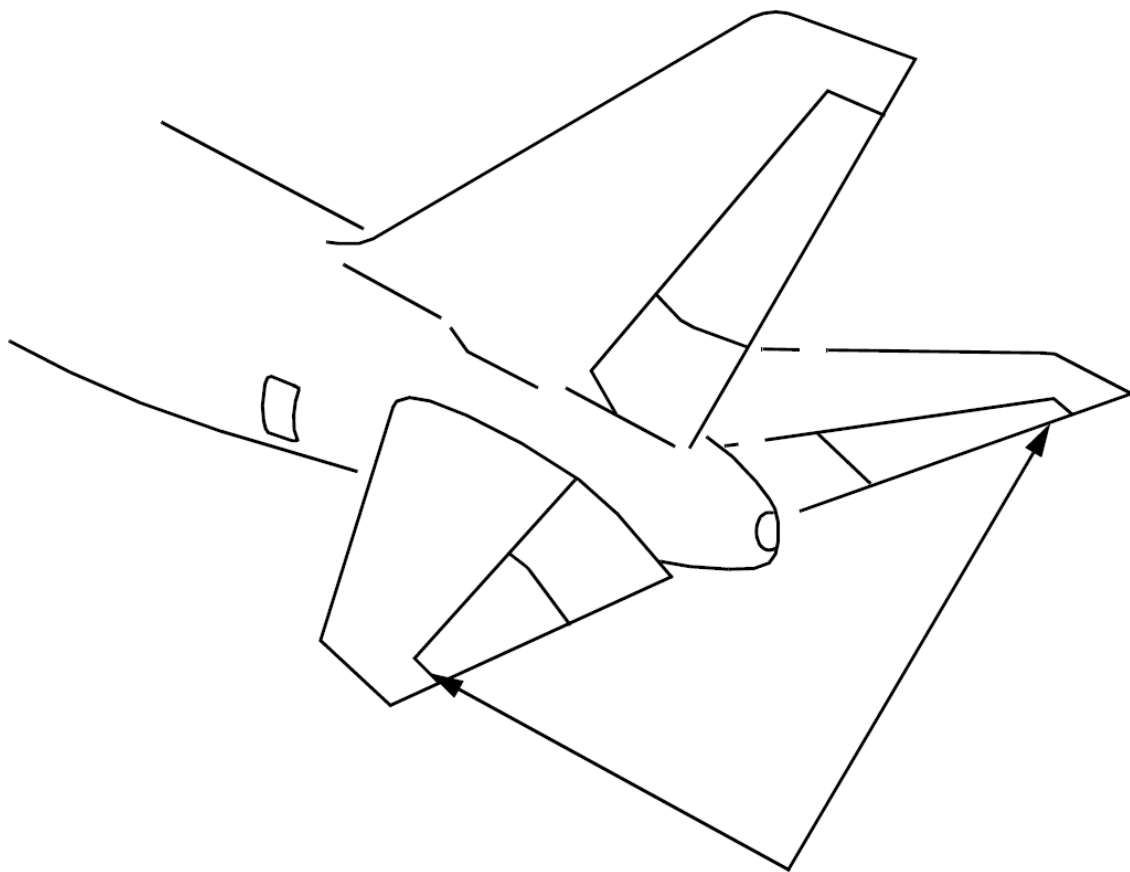
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
55-20-02	Elevator Outboard Bulb Seals "DISP.APPR.REQ'D"	N	2	0	(O) One or both may be missing provided performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item 55-20-01.

CDL ITEM	TAB LOCATION	PLACARD TEXT
55-20-02	N/A	___ Elevator Outboard Bulb Seal(s) missing

(O) PROCEDURES

55-20-02	ELEVATOR OUTBOARD BULB SEALS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF - Reduce RATOW by 100 lbs. - Reduce T/O CLIMB LIMIT by 100 lbs. LANDING - Reduce RWY ALLOWABLE LANDING WT by 100 lbs. - Reduce LANDING CLIMB LIMIT WT by 100 lbs.

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ELEVATOR OUTBOARD
BULB SEALS

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57-54-02	Leading Edge Flap Folding Nose – Inboard Strut Seal.....	57-11

NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
57-23-01	Winglet Fairings "DISP.APPR.REQ'D"	N	10	-	(O)(M) One set may be missing provided performance corrections are applied.

CDL ITEM	TAB LOCATION	PLACARD TEXT
57-23-01	N/A	___ Winglet Fairing missing

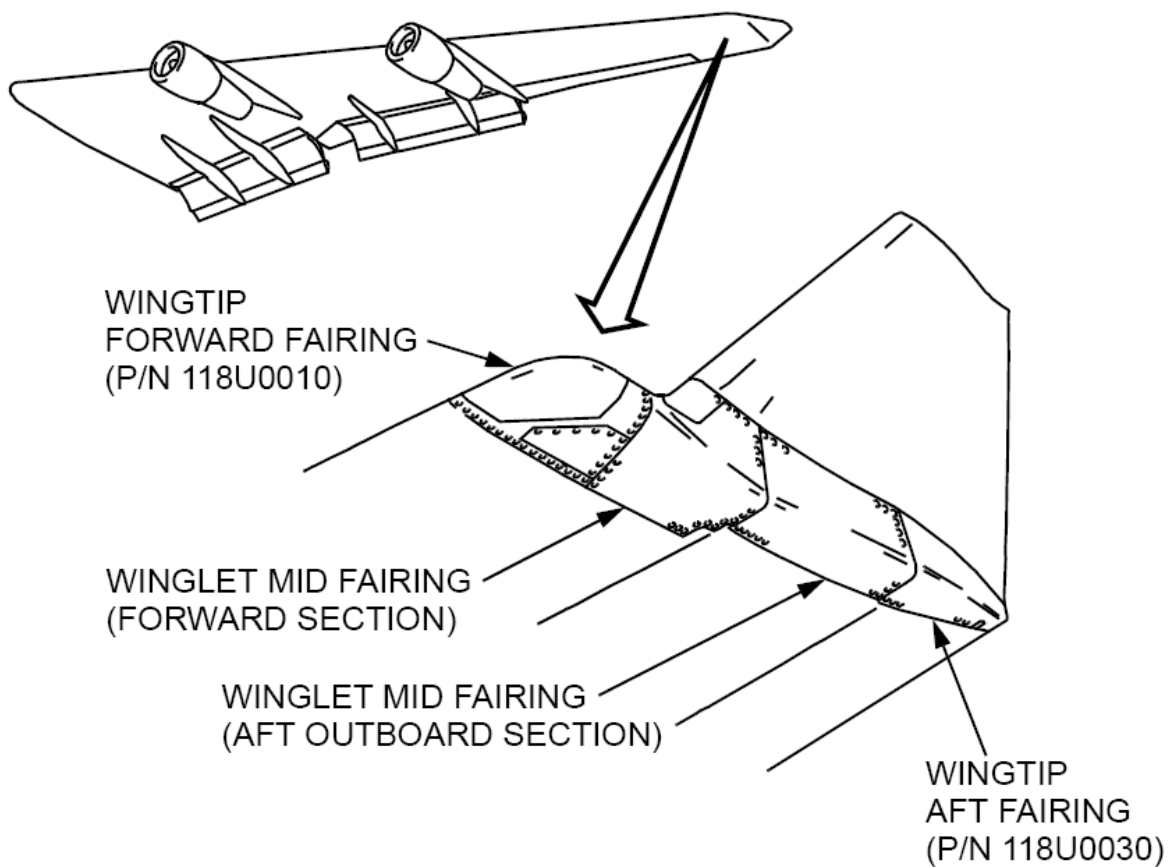
(O) PROCEDURES

57-23-01	WINGLET FAIRINGS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 10,000 lbs. 2. Increase BLOCK FUEL by 2.5%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 20,800 lbs. 2. Reduce T/O CLIMB LIMIT by 20,800 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 20,800 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 20,800 lbs.

(M) PROCEDURES

If any winglet fairing is damaged or missing, the affected winglet and all its fairings except the leading edge wingtip fairing Part Number 118U-0010 and the trailing edge wingtip fairing Part Number 118U-0030 must be removed per AMM. The forward facing opening in the trailing edge wingtip fairing must be covered (e.g. speed taped).

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NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH		
FLIGHT CREW MAY PLACARD			N	2	1	REPAIR CATEGORY
ITEM NO.	NAME / DESCRIPTION					REMARKS OR EXCEPTIONS
57-28-01	Winglets “DISP.APPR.REQ'D”					(O)(M) One may be missing provided performance corrections are applied.

CDL ITEM	TAB LOCATION	PLACARD TEXT
57-28-01	N/A	___ Winglet missing

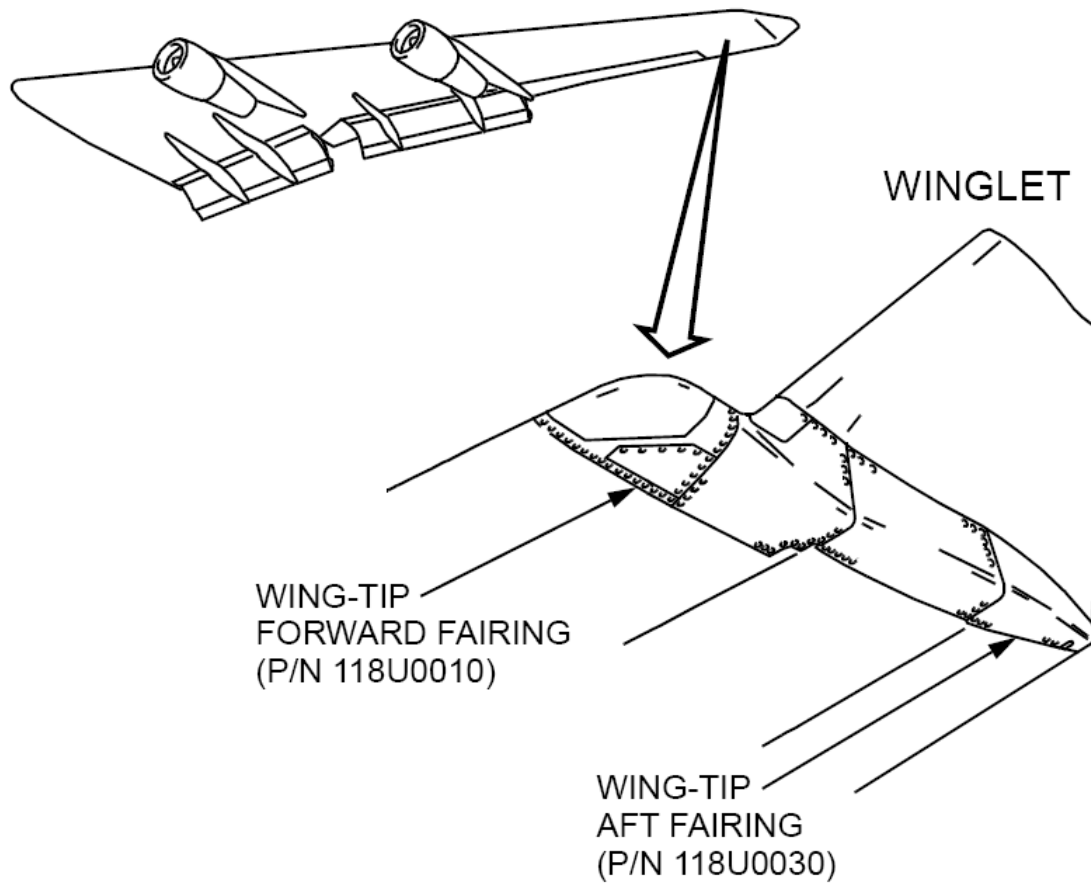
(O) PROCEDURES

57-28-01	WINGLETS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 10,000 lbs. 2. Increase BLOCK FUEL by 2.5%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 20,800 lbs. 2. Reduce T/O CLIMB LIMIT by 20,800 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 20,800 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 20,800 lbs.

(M) PROCEDURES

If a winglet is removed, the affected winglet fairings except the leading edge wingtip fairing Part Number 118U-0010 and the trailing edge wingtip fairing Part Number 118U-0030 must be removed per AMM. The forward facing opening in the trailing edge wingtip fairing must be covered (e.g. speed taped).

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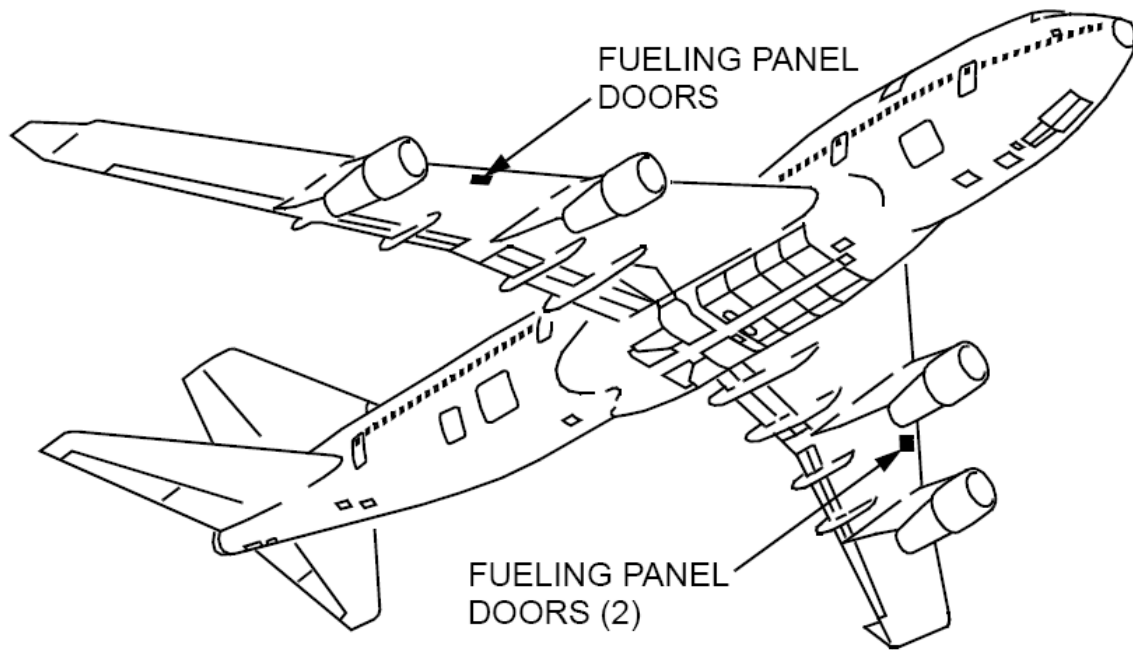
NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
57-31-01	Fueling Panel Doors "DISP.APPR.REQ'D"	N	3	0	(O) Any or all may be missing provided performance corrections are applied.

CDL ITEM	TAB LOCATION	PLACARD TEXT
57-31-01	N/A	___ Fueling Panel Door(s) missing

(O) PROCEDURES

57-31-01	FUELING PANEL DOORS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	Reduce ENROUTE LIMIT WT by 100 lbs. for each missing door.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. for each missing door. 2. Reduce T/O CLIMB LIMIT by 100 lbs. for each missing door. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. for each missing door. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs. for each missing door.

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NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD			REPAIR CATEGORY		
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
57-54-01	Leading Edge Flap – Inboard Strut Seal “DISP.APPR.REQ'D”	N	2	0	(O)(M) One or both seals may be missing provided: a) A flat plate seal must be installed on the fixed lower surface to ensure that the leading edge cavity is sealed when the flaps are retracted, and b) Performance corrections are applied. NOTE: This CDL item may not be applied in combination with CDL item 57-54-02.

CDL ITEM	TAB LOCATION	PLACARD TEXT
57-54-01	N/A	___ Leading Edge Flap – Inboard Strut Seal missing

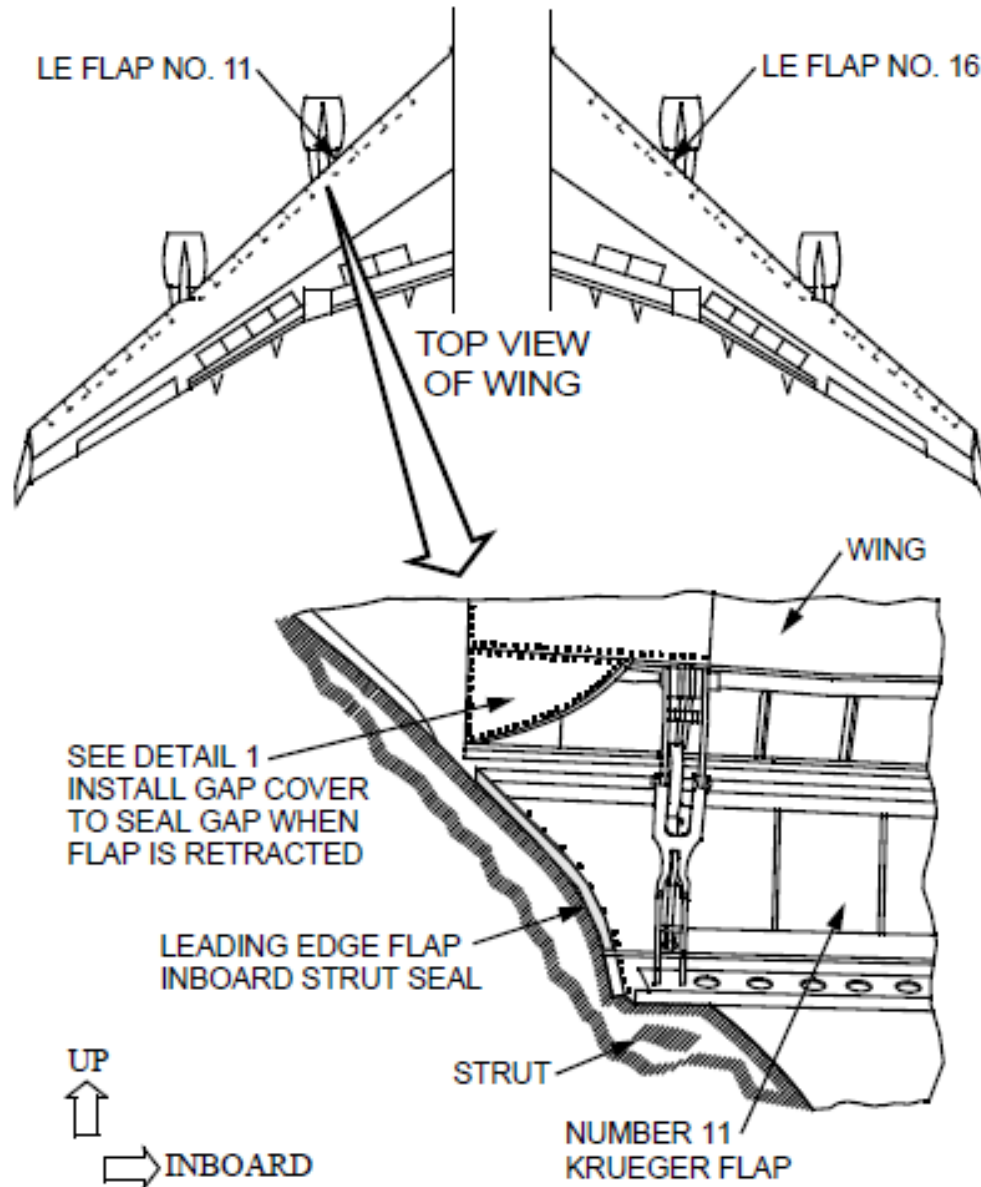
(O) PROCEDURES

57-54-01	LEADING EDGE FLAP – INBOARD STRUT SEAL
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	None
NOTES	Verify aft CG does not exceed 29% MAC.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF - Reduce RATOW by 5,040 lbs. - Reduce T/O CLIMB LIMIT by 5,040 lbs. LANDING - Reduce RWY ALLOWABLE LANDING WT by 6,500 lbs. - Reduce LANDING CLIMB LIMIT WT by 6,500 lbs. OTHER CORRECTIONS Verify aft CG does not exceed 29% MAC.

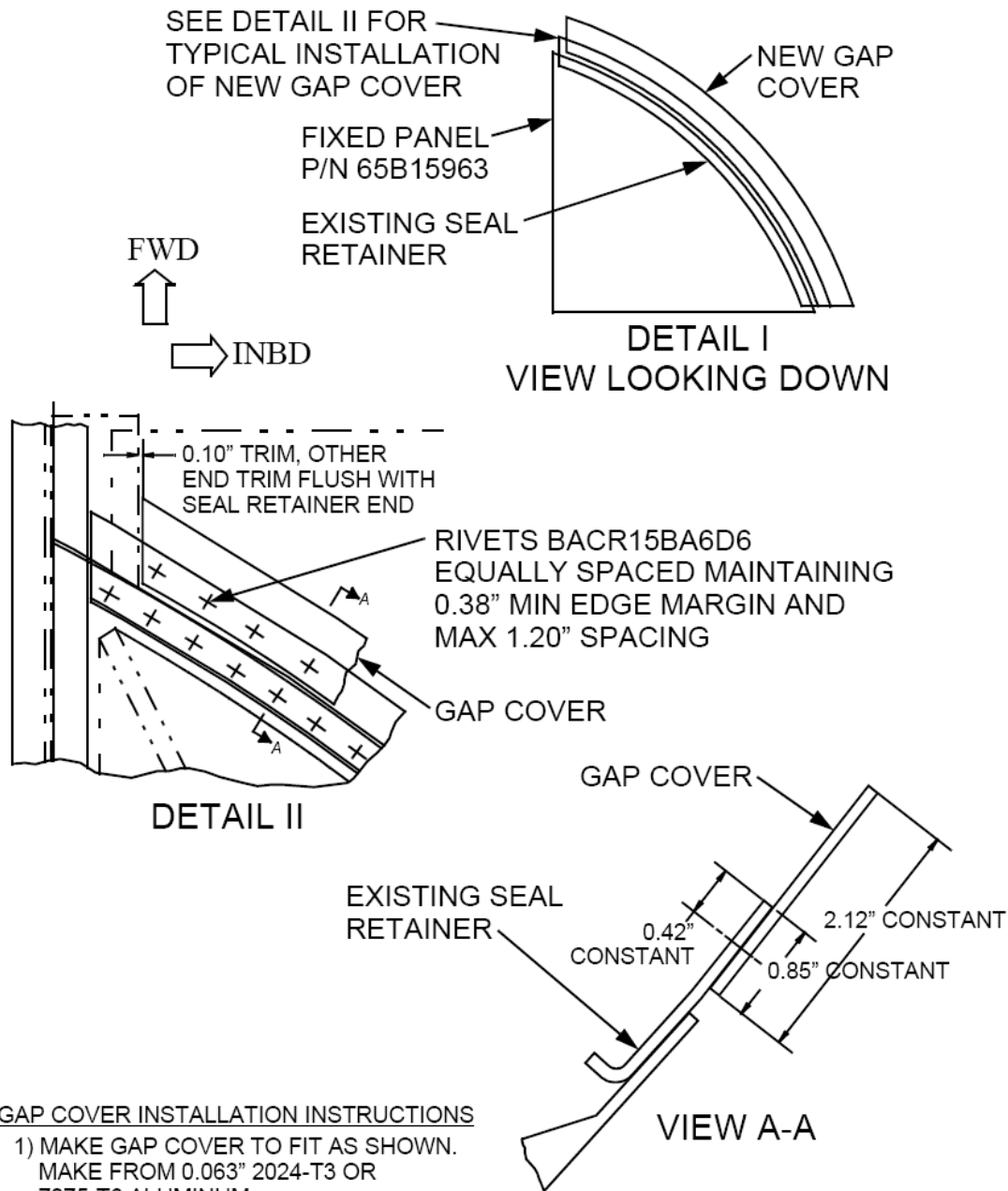
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(M) PROCEDURES

A flat plate seal must be placed on the fixed lower surface structure to ensure that the leading edge cavity is sealed when flaps are retracted.



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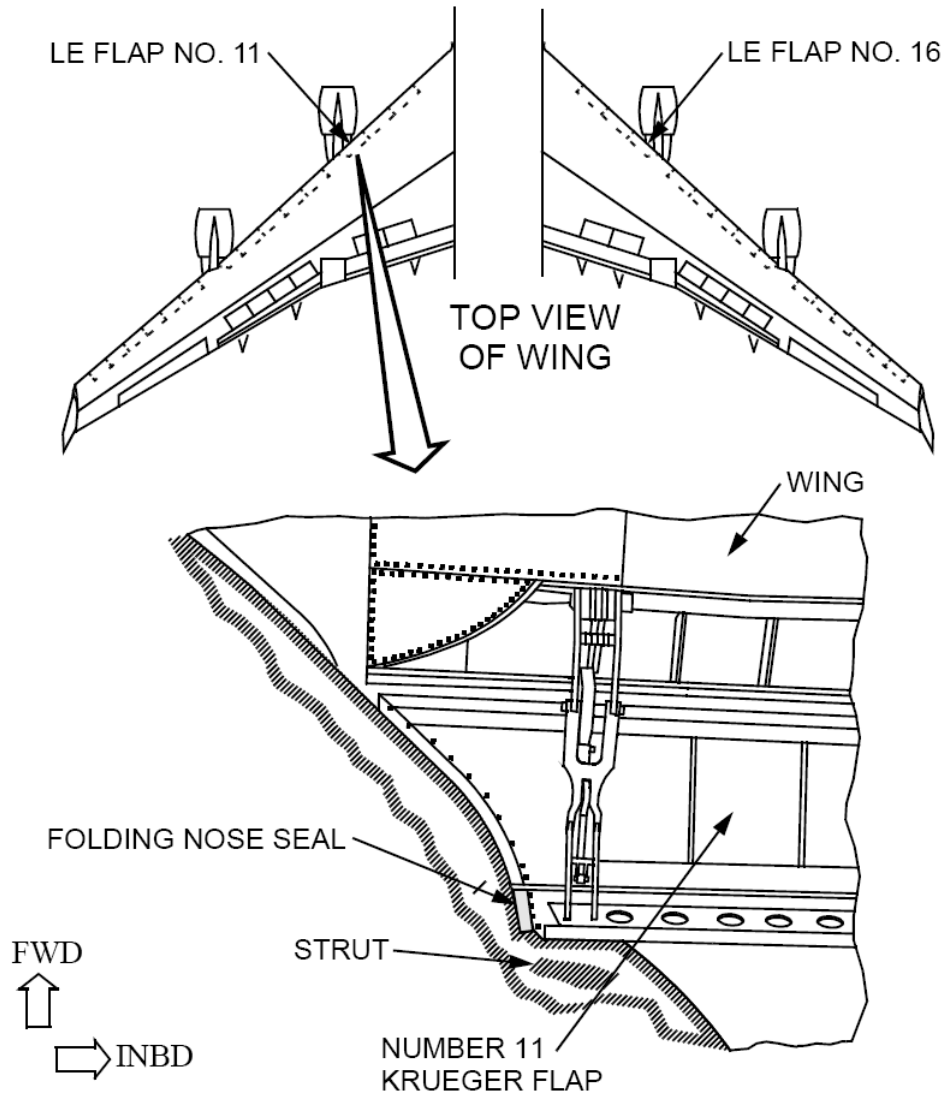


GAP COVER INSTALLATION INSTRUCTIONS

- 1) MAKE GAP COVER TO FIT AS SHOWN. MAKE FROM 0.063" 2024-T3 OR 7075-T6 ALUMINUM.
- 2) FINISH GAP COVER WITH ALODINE AND BMS 10-11 TYPE 1 PRIMER.
- 3) INSTALL GAP COVER ONTO EXISTING SEAL RETAINER AS SHOWN. USE BACR15BA606 RIVETS, FLUSH ON LOWER SURFACE OF GAP COVER.

NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
57-54-02	Leading Edge Flap Folding Nose – Inboard Strut Seal "DISP.APPR.REQ'D"	N	2	0	One or both may be missing with no penalty. NOTE: This CDL item may not be applied in combination with CDL item 57-54-01.

CDL ITEM	TAB LOCATION	PLACARD TEXT
57-54-02	N/A	___ Leading Edge Flap Folding Nose – Inboard Strut Seal missing



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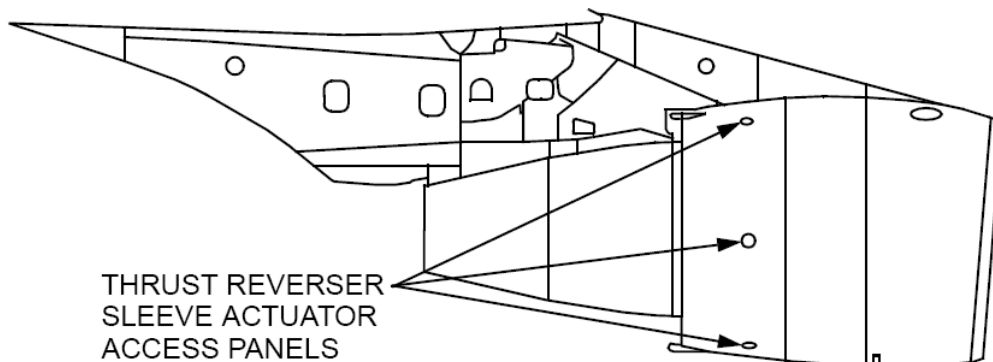
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78-31-02	Fan Thrust Reverser Blocker Doors.....	78-3
78-31-04	Thrust Reverser Cascade Vane Segments.....	78-5

NUMBER INSTALLED			NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD			REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION			REMARKS OR EXCEPTIONS
78-31-01	Thrust Reverser Sleeve Actuator Access Panels "DISP.APPR.REQ'D"	N 24	8	(O) A maximum of sixteen (four per nacelle) in any combination may be missing provided performance corrections are applied. NOTE: This CDL item may be applied in combination with CDL item(s): 78-31-02, 78-31-04.

CDL ITEM	TAB LOCATION	PLACARD TEXT
78-31-01	N/A	___ Thrust Reverser Sleeve Actuator Access Panels missing

(O) OPERATIONS

78-31-01	THRUST REVERSER SLEEVE ACTUATOR ACCESS PANELS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 250 lbs. 2. Increase BLOCK FUEL by 0.07%.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 100 lbs. 2. Reduce T/O CLIMB LIMIT by 100 lbs. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 100 lbs. 2. Reduce LANDING CLIMB LIMIT WT by 100 lbs.



NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
78-31-02	Fan Thrust Reverser Blocker Doors "DISP.APPR.REQ'D"	N	48	44	(O)(M) A maximum of four (one per cowl half) on two symmetrical engines may be missing provided: a) Thrust reverser with missing blocker doors is locked out and deferred per MEL 78-31-01A or 78-31-01B as appropriate, b) Drag links for missing blocker doors must be removed, and c) Performance corrections are applied. NOTE: This CDL item <u>may</u> be applied in combination with CDL item(s): 78-31-01, 78-31-04.

CDL ITEM	TAB LOCATION	PLACARD TEXT
78-31-02	N/A	___ Fan Thrust Reverser Blocker Door(s) missing

(O) OPERATIONS

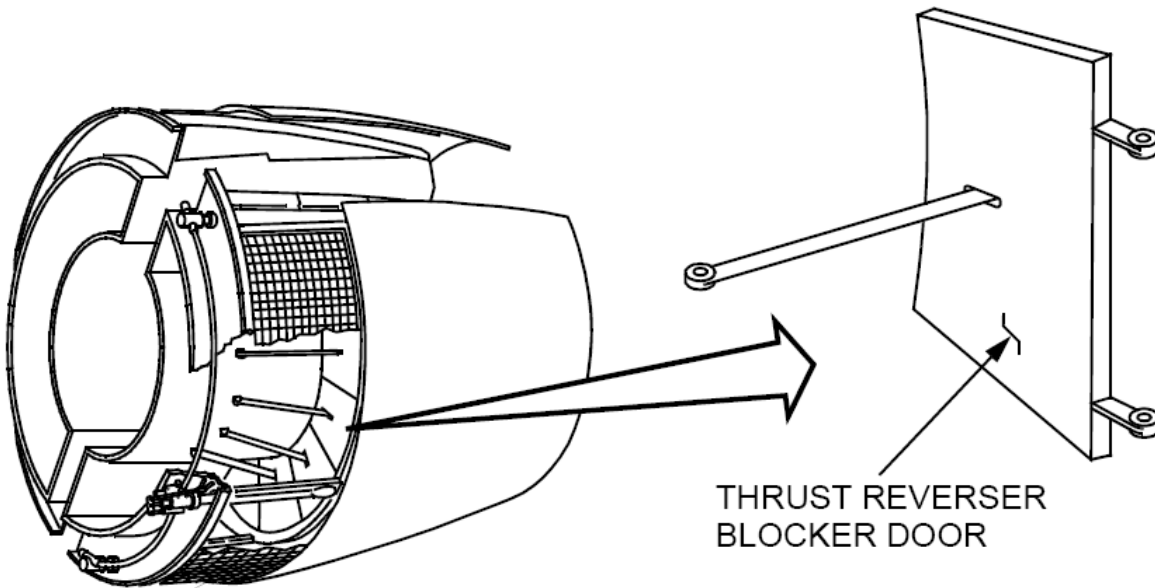
Reverse thrust must not be used or selected on an engine with missing blocker doors.

78-31-02	FAN THRUST REVERSER BLOCKER DOORS
EFFECTIVITY	All
FLIGHT PLANNING REQUIREMENTS	1. Reduce ENROUTE LIMIT WT by 2,100 lbs. for each affected engine. 2. Increase BLOCK FUEL by 0.53% for each affected engine.
NOTES	Make a notation on the Flight Plan when Enroute Climb is limiting.
AWABS	Performance corrections have been applied.
TAKEOFF PERFORMANCE WORKSHEET	TAKEOFF 1. Reduce RATOW by 700 lbs. for each affected engine. 2. Reduce T/O CLIMB LIMIT by 700 lbs. for each affected engine. LANDING 1. Reduce RWY ALLOWABLE LANDING WT by 700 lbs. for each affected engine. 2. Reduce LANDING CLIMB LIMIT WT by 700 lbs. for each affected engine.

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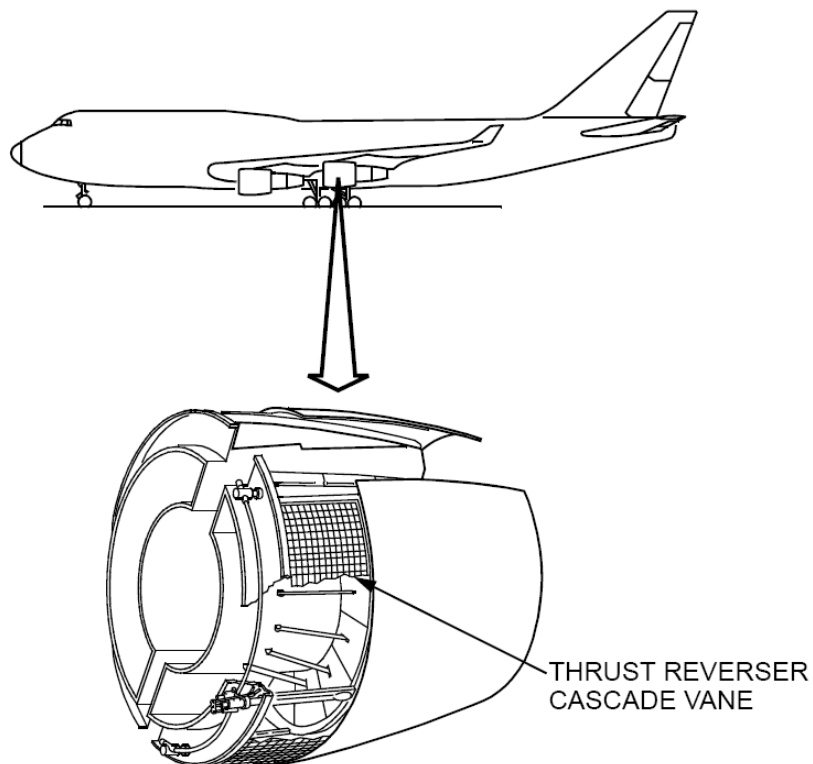
(M) PROCEDURES

Drag links for missing blocker doors must be removed.



NUMBER INSTALLED				NUMBER REQUIRED FOR DISPATCH	
FLIGHT CREW MAY PLACARD				REPAIR CATEGORY	
ITEM NO.	NAME / DESCRIPTION				REMARKS OR EXCEPTIONS
78-31-04	Thrust Reverser Cascade Vane Segments "DISP.APPR.REQ'D"	N	72	66	A maximum of three per reverser side (six per engine) may be missing with no penalty provided: a) Segments are missing from one engine only and thrust reverser is deactivated and deferred per MEL 78-31-01A. b) No two adjacent segments are missing. c) Top and bottom segments remain in place. d) Takeoff is prohibited on a contaminated runway. NOTE: This CDL item <u>may</u> be applied in combination with CDL item(s): 78-31-01, 78-31-02.

CDL ITEM	TAB LOCATION	PLACARD TEXT
78-31-04	N/A	___ Thrust Reverser Cascade Vane Segments missing



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