AIRCRAFT MAINTENANCE MANUAL

HIGHLIGHTS

REVISION NO. 75 Jun 01/15

Pages which have been revised are outlined below, together with the Highlights of the Revision

CH/SE/SU C	REASON FOR CHANGE	EFFECTIVITY
PAGES		

CHAPTER 05

	Revised to Reflect this revision indicating new,revised, and/or deleted pages
T. OF C.	Revised to reflect this revision
	HARD/HARD OVERWEIGHT LANDING (SHEET 1/2)" TO
29, 44- 48, 52, 54- 55	
05-51-15 4- 17	· ·
05-51-18 5- 8, 15- 25, 37- 40	Minor additions and amplification ADDED STEP TO CONTACT AIRBUS IF DAMAGE IS FOUND ON LANDING GEARS AND ITS COMPONENTS AFTER LIGHTENING STRIKE.
05-51-25 1- 13	Minor additions and amplification CORRECTED THE TITLE OF THE PAGE BLOCK. ADDED STEPS REGARDING INSPECTION OF SMOKE DETECTORS. REVISED PROCEDURE REGARDING INSPECTION FOR DRY AND WET DUST/VOLCANIC ASH.
05-51-46 1- 5	Layout Improved or Effectivity Updated
05-57-00 2- 8	REVISED FIG. "AIRCRAFT ON FORWARD JACK OR ON NOSE WHEEL JACK" TO MODIFY AIRCRAFT STABILITY

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._____ CH/SE/SU C REASON FOR CHANGE **EFFECTIVITY** PAGES

LIMITS GRAPHS.

REVISED FIG. "AIRCRAFT ON ONE MAIN GEAR WHEEL JACK" TO MODIFY AIRCRAFT STABILITY LIMITS GRAPHS.

REVISED FIG. "AIRCRAFT JACKED AT MAIN AND NOSE GEARS FOR WHEEL CHANGE" TO MODIFY AIRCRAFT STABILITY LIMITS GRAPHS. Minor additions and amplification REVISED FIG. "AIRCRAFT ON WHEELS, ON DRY GROUND" TO MODIFY AIRCRAFT STABILITY LIMITS GRAPHS.

REVISED FIG. "AIRCRAFT ON WHEELS, ON WET GROUND" TO MODIFY AIRCRAFT STABILITY LIMITS GRAPHS.

REVISED FIG. "AIRCRAFT ON JACKS" TO MODIFY AIRCRAFT STABILITY LIMITS GRAPHS.

05-57-11

Minor additions and amplification 2- 4 REVISED FIG. "AIRCRAFT ON WHEELS, ON DRY GROUND" TO MODIFY AIRCRAFT STABILITY LIMITS GRAPHS.

> REVISED FIG. "AIRCRAFT ON WHEELS, ON WET GROUND" TO MODIFY AIRCRAFT STABILITY LIMITS GRAPHS.

REVISED FIG. "AIRCRAFT ON JACKS" TO MODIFY AIRCRAFT STABILITY LIMITS GRAPHS.

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CHAPTER 05

TIME LIMITS/MTCE.CHKS

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CHAPTER 05

TIME LIMITS/MTCE.CHKS

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	INSPECTION AFTER IMPACT ON ENGINE COWLS General	05-51-27	1	ALL
	INSPECTION AFTER SPILLAGE	05-51-28	'	ALL
	INSPECTION AFTER SPILLAGE INSPECTION AFTER ABNORMAL PAX/CREW	05-51-29		
	DOOR MOVEMENT	07-71-29		
	General		4	ALL
	INSPECTION AFTER ABNORMAL CARGO DOOR MOVEMENT	05-51-30	'	ALL
	MAIN LANDING GEAR INSPECTION AFTER	05-51-31		
	STEERING ANGLE EXCEEDED AT MAXIMUM			
	PERMISSIBLE WEIGHTS			
	INSPECTION AFTER ENGINE WINDMILLING (AFTER ENGINE IN-FLIGHT SHUT-DOWN)	05-51-34		
	INSPECTION AFTER OVERWEIGHT TAXIING	05-51-41	_	
	General	05 54 72	1	ALL
	INSPECTION AFTER VERY HIGH WINDS ON GROUND	05-51-42		
	Inspection/Check		601	ALL
	General			ALL
	Equipment and Materials			ALL
	Procedure			ALL
	Job Set-Up			ALL
	General External Inspection			ALL
	Inspection of the Landing Gear			ALL
	Inspection of the Flight			ALL
	Control Surfaces		303	-
	Close Access		605	ALL
	INSPECTION AFTER FLIGHT WITH HIGH LATERAL LOADS	05-51-44		
R	INSPECTION AFTER FLIGHT OR	05-51-46		

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SUBJECT LANDING IN EXCESS OF LATERAL IMBALANCE	CH/SE/SU	<u>C PAGE</u>	EFFECTIVITY
Reason for the Job	05-51-50	-	ALL
INSPECTION AFTER LANDING WITH FUEL IN TRIM TANK	05-51-55		
General		1	ALL
PRESSURIZATION TEST OF FUSELAGE (LEAKAGE CHECK) AFTER A/C ABNORMAL OPERATION OR REPAIR	05-53-00	02	
General		1	ALL
Test at 4 psi ΔP for Leakage at Repaired Zone		1	ALL
Test at 8 psi ΔP for Leakage at Repaired Zone		6	ALL
Test at 8 psi ΔP for Leakage at Repaired Zone		6	ALL
Test at 8 psi ΔP for Structure Leakage Measurement		11	ALL
Test at 8 psi ΔP for Structure Leakage Measurement		12	ALL
Test at 4 psi ΔP for Structure Leakage Measurement		17	ALL
Test at 4 psi ΔP for Structure Leakage Measurement		17	ALL
DEMAGNETIZATION	05-54-00		
Maintenance Practices Demagnetization of the External Parts of the Frames of the Windshield and Sliding Windows		=	ALL ALL
LEVELING AND MEASUREMENT AFTER A/C ABNORMAL OPERATION	05-56-00		
General			ALL
Inspection/Check		601	ALL
AIRCRAFT STABILITY AIRCRAFT STABILITY WITH FUEL IN TRIM TANK	05-57-00 05-57-11		
NON REVENUE FLIGHT REQUIREMENTS FOLLOWING MAINTENANCE ACTIONS	05-59-00		
General		=	ALL
Engine Replacement		1	ALL

AIRCRAFT MAINTENANCE MANUAL

GENERAL

1. Chapter 05 Covers
05-20-00 SCHEDULED MAINTENANCE CHECKS
05-50-00 UNSCHEDULED MAINTENANCE CHECKS

2. Time Limits

This part of the Aircraft Maintenance Manual (AMM) is approved by the Airworthiness Authorities and is issued as a separate Manual with the title:

A300-600 and A310

ALS Part 1

Safe Life Airworthiness Limitation Items

3. Scheduled Maintenance Checks (05-20-00)

The initial Scheduled Maintenance Checks are those prescribed by the Maintenance Review Board Report (MRBR).

4. Unscheduled Maintenance Checks (05-50-00)

The Unscheduled Maintenance Checks section covers Maintenance Checks to be performed whenever a flight in abnormal conditions has been reported by the flight crew.

This section has been divided into two categories of information:

- Inspections
- Checks.

EFFECTIVITY: ALL

05-00-00

AIRCRAFT MAINTENANCE MANUAL

SCHEDULED MAINTENANCE CHECKS

1. General

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In accordance with the ATA 100 Specification, the Maintenance checks and inspections of the aircraft, its systems and units as well as the relevant Hard Time Limits recommended by the manufacturer, agreed by the A310 Maintenance Steering Committee (AMSC) and approved by the A310 Maintenance Review Board are provided separately in the A310 Maintenance Review Board Report (MRBR).

R 2. Guidance for Accomplishment of a Zonal GVI

A Zonal GVI requires a visual examination to detect obvious unsatisfactory conditions and discrepancies. It shall be performed from within touching distance unless otherwise noted, this being the distance from the examiner's eye to the area/item being inspected.

R Flashlights and mirrors may be required to provide an adequate view of all R surfaces.

R There is no requirement for equipment removal or displacement unless this is specifically called for in the access instructions. However, should unsatisfactory conditions be suspected, additional items may need to be removed or displaced in order to permit proper assessment.

R Paint and/or sealant removal is not necessary and should be avoided unless condition is suspect.

It is expected that the area to be inspected is clean enough to minimize the possibility that accumulated dirt or grease might hide unsatisfactory conditions that would otherwise be obvious. Any cleaning that is considered necessary should be performed in accordance with approved procedures in order to minimize the possibility of the cleaning process itself introducting anomalies.

R In general, the person performing the inspection is excpected to identify degradation due to wear, vibration, moisture, contamination, excessive heat, aging, etc. and make an assessment as to what actions are appropriate to address the noted discrepancy. In making this assessment, the person performing the inspection shall take into account the potential influence on adjacent system installations, particularly if these include wiring.

As a result of the CPCP requirement to control corrosion to Level 1 or better, operators shall report corrosion findings to the manufacturer in accordance with the Structures Program Reporting System, refer to Appendix 6 of the MRB Report.

R The following list is intended to clarify the type of deterioration that constitutes a discrepancy that is expected to be found and corrected. The list is not intended to be exhaustive and may be amended or expanded as considered appropriate.

Structural Items/Assemblies

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```
R
      General
R
      . Deformations e. g. bulging skin joint
      Corrosion
     . Cracks
R
     . Delamination or disbanding
R

    Obstructed drain holes

R

    Damage to hinges or latches

     . Evidence of fluid spillage or pooled liquids
R
     Accidental Damage
R
     . Dents
R
     . Impact marks
R
     . Scratches or gouges
R

    Evidence of hail damage

R
      . Evidence of lightning strike
      - Evidence of foreign object damage (FOD) / bird strike
R
     Fasteners
R

    General condition of fasteners

R
      . Missing or broken fasteners
R
     Surface Protection
      . Damaged, detached or missing sealant
R
      . Damaged, blistering or missing paint
R
      - Severely discolored paint (evidence of corrosive fluid spillage)
      . Accumulation of contaminants (dirt, grease, skydrol etc.)
R
R
R
     . Deterioration of previous repairs
R
      Electrical installation
R
      (also refer to AMM Chapter 20 Standard Practices)
      Wire / Wire Harnesses
R
      . Wire bundle/wire bundle or wire bundle/structure contact/chafing
R
      . Wire bundle sagging or badly secured
R
     . Wires damaged (large scale damage due to mechanical impact, overheat,
R
       localized chafing etc.)
      . Lacing tape and/or ties missing/incorrectly installed
R
      . Wiring protection sheath/conduit deformity or incorrectly installed
     End of sheath rubbing on end attachment device

    Grommet missing or damaged

R
R
     Dust and lint accumulation
     Surface contamination by metal shavings / swarf
R

    Contamination by liquids

R
     . Deterioration of previous repairs
R
R
     Connectors

    External corrosion on receptacles

R

    Backshell tail broken

      . Rubber pad or packing on backshell missing
R
     . No backshell wire securing device
R
     . Fool proofing chain broken
R
     . Missing or broken safety wire
     . Discoloration/evidence of overheat on terminal lugs/blocks
R

    Torque stripe misalignment

R
     Switches
R

    Rear protection cap damaged
```

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R	Ground Points
R	. Corrosion
R	Bonding braid/bonding jumper
R	Braid broken or disconnected
R	. Multiple strands corroded
R	. Multiple strands broken
R	Wiring clamps or brackets
R	• Corroded
R	. Broken/missing
R	Bent or twisted
R	Faulty attachment (bad attachment or fastener missing)
R	• Unstuck/detached
R	Protection/cushion damaged
R	
R	Supports (rails or tubes/conduit)
R	. Broken
R	. Deformed
R	. Fastener missing
R	. Missing edge protection on rims of feed-through holes
R	- Racetrack cushion damaged
R	The following items could be considered to be covered by the ZIP if access
R	to the electrical power center, relay boxes etc. are added to the access
R	requirements:
R	Circuit breakers, contactors or relays
R	. Signs of overheat
R	Hydraulic/Fuel/Water Waste/Oxygen/Fire Detection/Fire Suppression system
R	installation
R	- Seepage/leakage of liquid
R	. Broken or incorrect wire locking
R	. Pipes badly secured
R	Pipe/pipe or pipe/structure contact (check for chafing and restore
R	separation)
R	. Missing or broken clamps
R	. Crushed / damaged pipes
R	Broken/disconnected bonding leads / jumpers
R	 Deterioration of previous repairs
R	 Obstruction of smoke detectors
R	 Plugged or damaged distribution nozzles
R	Air systems installation
R	 Evidence of leakage on adjacent structure/components
R	. Crushed/split ducts
R	. Misaligned, missing or broken clamps
R	Ducting badly secured
R	Mechanical systems installation
R	- Bent/crushed control rods
R	- Sagging control cables
R	- Excessively worn, frayed or kinked control cables
R	- Excessively worn fairleads
R	- Extruded bearing liners
R	Broken or incorrect wire locking
R	. Significant corrosion on cables, threads

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R Cargo Systems R Split/holed compartment liners R Seal damage R Excessively worn rollers (sign of jamming and resultant overheat) . Missing/damaged stops/latches R R . Damaged cargo net restraining attachments R Engines/Pylons Blade damage (e.g., nicks, cracks) R R Blade rub (on rubstrip) Vane damage R Cowling damage R R Loose or migrating fasteners and bushings (due to vibration) R Discoloration (due to heat damage) R - Foreign Object Damage (FOD) . Damage due to birdstrike/ingestions R General R R . Illegible labels R Condensation in windows Window crazing R R Oil canning R WET AREAS - for floor structure The wet area is defined as the area 0.5 m (20") around any installed R lavatory, galley or any door area where the door is not deactivated. R R Rules: The wet area - WET AREA - definition applies independently from the A/C R R subtype (C, etc.) If, during regular operation, spillage of corrosive fluids in the entire R R cargo compartment or certain areas of it is likely, then these areas are to R be conservatively considered as - WET AREA -If a task is referred to as applicable to - WET AREA - these areas have to R be identified by each operator, based on their cabin configuration and / or R operational experience. The layout and definition must be implemented in the operator's individual R R maintenance program. R If an operator chooses not to specify the dedicated - WET AREA -, then the complete area is to be considered as - WET AREA -. R R With respect to the General Introduction, operators shall consider that all Zonal tasks in this Section are required to support compliance with EWIS R R requirements. This practice overrides any requirement to identify each task R individually with (EZAP) in each task description.

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AIRCRAFT MAINTENANCE MANUAL

UNSCHEDULED MAINTENANCE CHECKS

1. General

This section contains recommended checks and inspections which may be dictated by special or abnormal conditions such as hard/overweight landing, flight in excessive turbulence, lightning strike or severe static discharge, bird impact or slush ingestion.

R It also contains the manufacturers' recommendations for non revenue flight

R requirements following maintenance actions (Ref. 05-59-00, P. Block 1).

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AIRCRAFT MAINTENANCE MANUAL

UNSCHEDULED MAINTENANCE CHECK - MAINTENANCE PRACTICES

R **ON A/C 401-401, 404-500,

1. Leaks - Permitted Values

A. Reason for the Job

This task gives you all the fluid leak measurement procedures for flight controls, fuel, hydraulic, landing gear, cargo doors and power plant systems.

B. Equipment and Materials

ITEM DESIGNATION

Referenced procedures

- 28-11-00, P. Block 601 - 29-00-00, P. Block 601 - 71-00-00, P. Block 201 Tanks Hydraulic Power - General Power Plant - General

- C. Procedure
 - (1) Measurement of Leaks
 - (a) Measurement of hydraulic system leaks (Ref. 29-00-00, P. Block 601).
 - (b) Measurement of flight control system leaks (Ref. 29-00-00,
 - P. Block 601).
 - (c) Measurement of fuel system leaks (Ref. 28-11-00, P. Block 601).
 - (d) Measurement of landing gear system leaks (Ref. 29-00-00, P. Block 601).
 - (e) Measurement of cargo doors leaks (Ref. 29-00-00, P. Block 601).
 - (f)Measurement of power plant system leaks (Ref. 71-00-00, P. Block 201).

**ON A/C 226-226, 229-249,

1. Leaks - Permitted Values

A. Reason for the Job

This task gives you all the fluid leak measurement procedures for flight controls, fuel, hydraulic, landing gear, cargo doors and power plant system.

B. Equipment and Materials

ITEM **DESIGNATION** ______

Referenced procedures

- 28-11-00, P. Block 601 Tanks - 29-00-00, P. Block 601 Hydraulic Power - General - 72-00-00, P. Block 201 Engine - General

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- C. Procedure
 - (1) Measurement of Leaks
 - (a) Measurement of hydraulic system leaks (Ref. 29-00-00, P. Block 601).
 - (b)Measurement of flight control system leaks (Ref. 29-00-00, P. Block 601).
 - (c) Measurement of fuel system leaks (Ref. 28-11-00, P. Block 601).
 - (d) Measurement of landing gear system leaks (Ref. 29-00-00, P. Block 601).
 - (e) Measurement of cargo doors leaks (Ref. 29-00-00, P. Block 601).
 - (f) Measurement of power plant system leaks (Ref. 72-00-00, P. Block 201).

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INSPECTIONS

1. General

This section contains those inspections that are necessary after an incident or abnormal flight conditions and will, in most cases, be called for as a result of a flight crew report.

R Unless specified differently, you must do these inspections before the subsequent flight of the aircraft.

If there is no inspection in this section applicable to the incident or abnormal flight conditions that occurred, operators must tell Airbus and make a request for more instructions.

2. <u>Inspection Coverage</u>

It is not possible to lay down precise details of the inspection procedure to be adopted after every incident because of the wide variations of weight, speed, nature and direction of loads, weather conditions and component failure patterns. Therefore these inspections have been written for the worst possible case. In order to gain an indication of the severity of the incident and to facilitate rapid location of primary damage, it is essential that full information is obtained from the flight crew. Therefore prior to starting an inspection, consult the crew and ascertain details of:

- Weather conditions
- Aircraft speed and flight attitude
- Aircraft weight and fuel distribution
- In landing mode, if touchdown was straight, drifting, wing low, nose high or low
- If any noise of impact or indicative of structure or component failure was heard
- Relevant instrument indications.

Printout of the maintenance data recorder (if installed) tape will provide valuable additional data and indication of system malfunction.

3. Inspection Sequence

To permit simultaneous inspection of several areas of the aircraft, the inspection has been divided into a number of "Packages".

For example: "Inspection after Hail Impact" requires on Phase 1 a complete airframe external check. Therefore this is divided into four major zones: fuselage, wings, nacelles/pylons and stabilizers. These major zones are further divided into smaller zones or major components.

The small zones are then broken down into items, which can be individually signed off as inspection is completed.

The inspections are divided into three phases:

- Phase 1 is a general inspection for primary damage and indications of remote damage and is mainly external.
- Phase 2 is a more detailed inspection and is mainly internal. Some component removal may be called up.
- Phase 3 is a very detailed inspection involving component removal and strip down.

If the Phase 1 inspection reveals no damage, no further examination is necessary.

If Phase 1 reveals damage then Phase 2 must be accomplished.

EFFECTIVITY: ALL	05	j- 5)

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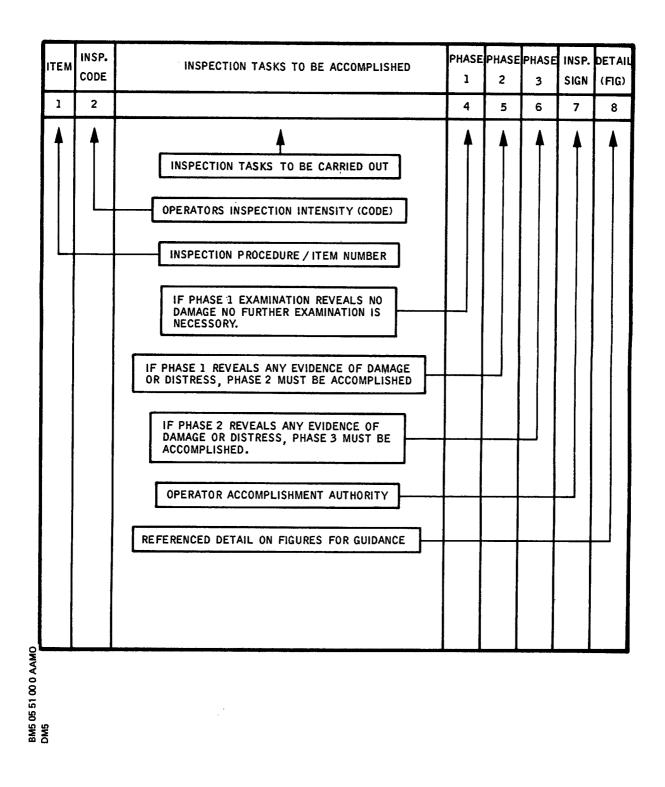
If Phase 2 reveals damage then Phase 3 must be accomplished. If you find damage during Phase 1, Phase 2 or Phase 3 inspections, replace or repair the affected component in accordance with relevant manuals (SRM, AMM, CMM) and ensure that adjacent area is free of damage.

- 4. Inspection Form (Ref. Fig. 001)
 - The layout of the inspection form has been arranged as follows:
 - Columns 1, 3, 4, 5, 6 and 8 are explained on the figure.
 - Columns 2 and 7 are provided for use by the operator's inspectors, if they wish to use them, for inspection intensity code and accomplishment signature. The forms may thus be photocopied, used as work cards and then filed with the aircraft technical records on completion.

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Inspection Form Figure 001

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AIRCRAFT MAINTENANCE MANUAL

INSPECTION AFTER HARD OR OVERWEIGHT LANDING

1. Reason for the Job

To do an inspection of the aircraft for structural damage after a hard landing or hard overweight landing.

NOTE: This procedure only refers to inspection after a hard landing or hard overweight landing reported by the pilot. It is not dedicated to systematic landing analysis for hard/hard overweight landing detection.

<u>NOTE</u>: No inspection is necessary for an overweight landing if it is not a

hard landing.

R

R

2. Equipment and Materials

	ITEM	DESIGNATION
	Α.	Access Platforms 1.98 m to 8.03 m (6 ft. 6 in. to 26 ft. 4 in.)
	В.	Warning Notices
	Referenced Procedures	
	- 05-51-21, P. Block 1	Inspection After Tail Skid Runway Strike
	- 05-56-00, P. Block 1	Leveling and Measurement After A/C Abnormal Operation
	- 23-71-00, P. Block 501	Cockpit Voice Recorder
	- 24-31-00, P. Block 601	Batteries - DC Generation
	- 24-41-00, P. Block 301	AC External Power Control
	- 25-52-00, P. Block 501	Semi-Automatic Cargo Loading System
R	- 26-00-00, P. Block 601	Fire Protection
	- 27-50-00, P. Block 301	Flaps
R R	- 27-54-00, P. Block 601	Hydraulic Actuation and Power Transmission (Flaps)
	- 27-54-19, P. Block 401	Transmission Shaft
	- 27-84-00, P. Block 601	Lift Augmenting
	- 28-25-00, P. Block 301	Refuel/Defuel System
	- 29-10-00, P. Block 301	Main Hydraulic Power - Pressurization/
	,	Depressurization
	- 29-25-00, P. Block 501	Yellow Auxiliary Power (Ram Air Turbine)
	- 31-31-00, P. Block 501	AIDS Interconnection Interfaces
	- 32-10-00, P. Block 601	Main Gear and Doors
	- 32-11-13, P. Block 401	Main Gear Shock Absorber
	- 32-11-13, P. Block 601	Main Gear Shock Absorber
	- 32-12-11, P. Block 301	<pre>Main Gear Main Door - (Ground Door(s) Opening)</pre>
	- 32-20-00, P. Block 601	Nose Gear And Doors
	- 32-21-00, P. Block 601	Nose Gear
	- 32-21-14, P. Block 401	Nose Gear Shock Absorber
	- 32-21-14, P. Block 601	Nose Gear Shock Absorber
	- 32-22-11, P. Block 301	Nose Gear Main Door - (Ground Door(s) Opening)
	- 32-41-00, P. Block 601	Wheels
	- 38-11-00, P. Block 1	Water Storage
	- 49-16-00, P. Block 601	Air Intake System
	- 54-51-72, P. Block 401	Attach Fittings - Fwd (Rib 12)
	- 54-51-72, P. Block 601	Attach Fittings - Fwd (Rib 12)
	- 54-51-75, P. Block 401	Attach Fittings - Aft (Rib 18)
	- 54-51-75, P. Block 601	Attach Fittings - Aft (Rib 18)

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______ ITEM **DESIGNATION** ______ Aft Mount Upper Beam - 54-51-85, P. Block 601 - 55-16-11, P. Block 601 Horizontal Stabilizer Attach Fittings - 55-26-11, P. Block 601 Elevator Attach Fittings - 55-36-11, P. Block 601 Vertical Stabilizer Attach Fittings - 55-46-11, P. Block 601 Rudder Attach Fittings - 57-20-24, P. Block 601 Beams - 57-20-34, P. Block 601 Attach Fittings - 57-20-35, P. Block 401 Fillets and Fairings - 71-00-00, P. Block 401 Power Plant - General - 71-00-00, P. Block 501 Power Plant - General Engine - General - 72-00-00, P. Block 601 - 76-11-00, P. Block 501 Throttle Controls

3. Job Set-up

A. General

(1)Definitions

(a)Delta VRTA

Vertical Acceleration Increment (DELTA VRTA): This is the difference between the Vertical Acceleration (VRTA) peak value after the impact (or bounce) and the VRTA minimum value in a period not exceeding one second before the peak.

(b)RALR

Radio Altitude Rate (RALR): This represents the aircraft vertical rate of descent.

(c)NY

Lateral Load Factor (NY): Lateral acceleration at the impact.

(4) BULL

Roll angle (|ROLL|): Aircraft roll angle at the impact.

- B. Procedure to confirm a Suspected Hard/Hard Overweight Landing (Ref. Fig. 001, 002, 003) (Ref. Fig. 004)
 - (1)Definition of a suspected hard/hard overweight landing
 A suspected hard/hard overweight landing is a landing after which the
 flight crew makes a report of a hard/hard overweight landing.

NOTE: It is the responsibility of the flight crew to make a report if they think there was a hard/hard overweight landing.

(2)Confirmation of a hard/hard overweight landing

After a suspected hard/hard overweight landing, operators have to assess for the severity of the event by downloading and processing the recorder's data.

The grace period to download the landing parameters is 50FH, but:

- is limited to 25FH if the DFDR is used, as the maximum recording period for this device is 25H,
- is limited to the maximum recording period depending on QAR system configuration, if a QAR is available, within the 50FH limitation.

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If the criteria have not been exceeded, no inspection is required.
R
          NOTE: No inspection is necessary for an overweight landing if it is not
R
                 a hard landing.
          NOTE: It is the operator's responsibility to download data from
                 recorders and to process them to assess where the A/C is with
                 respect to criteria. Upon request, Airbus support may be
                 contacted to process raw data in lieu of the operator
                 (Refer to SIL 00-086).
                 If the operator does not or cannot read the landing impact
                 parameters, the inspection as per AMM 05-51-11 must be performed
                 before the subsequent flight.
         (a)If GW ≤ MLW, the hard landing is divided into 2 severity zones:
            1) Zone 1: |ROLL| < 1^{\circ} and |NY| < 0.3g
               |ROLL| < 3^{\circ} and |NY| < 0.2g
               RALR \geq -9ft/s and DELTA VRTA \leq 1.0g
               No maintenance necessary or, if the inspections as per AMM 05-51-11
               Phase I have already been performed, no additional inspections are
               required. Event reported is definitely not a hard landing.
            2) Zone 2: |ROLL| \ge 3^{\circ}
               |ROLL| \ge 1^{\circ} and |NY| \ge 0.2g
               |NY| \ge 0.3g
               or
               RALR < -9ft/s
               DELTA VRTA > 1.0g
            NOTE: - For |ROLL| and NY Refer to (Ref. Fig. 001)
                    - For RALR and DELTA VRTA Refer to (Ref. Fig. 002).
            Do this procedure:
            - Do the inspection in paragraph 4.
            - On the condition that there are NIL findings during the inspection
              tasks, the aircraft can return to service until Airbus instructions
              are available.
            - Download DFDR (or QAR, if available) raw data of the event (Refer to
              SIL 00-086) before it is overwritten and supply it quickly with the
              pilot report and the load trim sheet for event assessment. Meanwhile,
              the aircraft can continue flying.
            - Airbus will either confirm that the release is permanent or advise
R
              within a maximum period of 100FC/30 days to carry out some targeted
              additional inspections that can be planned within the given 10FC
              grace period otherwise specified.
            - If there are findings related to phase II, report to Airbus and A/C
              is AOG.
         (b) If GW > MLW, the hard overweight landing is divided into 2 severity
            zones:
            1) Zone 1: |ROLL| < 1^{\circ} and |NY| < 0.3g
               |ROLL| < 3^{\circ} and |NY| < 0.2g
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No maintenance necessary or, if the inspections as per AMM 05-51-11 Phase I have already been performed, no additional inspections are required. Event reported is definitely not a hard overweight landing.

2) Zone 2: |ROLL| ≥ 3° or |ROLL| ≥ 1° and |NY| ≥ 0.2g or |NY| ≥ 0.3g or RALR < -6ft/s

DELTA VRTA > 0.8g

NOTE : - For |ROLL| and NY Refer to (Ref. Fig. 001)
- For RALR and DELTA VRTA Refer to (Ref. Fig. 003).

Do this procedure:

or

- Do the inspection in paragraph 4.

RALR \geq -6ft/s and DELTA VRTA \leq 0.8g

- On the condition that there are NIL findings during the inspection tasks, the aircraft can return to service until Airbus instructions are available.
- Download DFDR (or QAR, if available) raw data of the event (Refer to SIL 00-086) before it is overwritten and supply it quickly with the pilot report and the load trim sheet for event assessment. Meanwhile, the aircraft can continue flying.
- Airbus will either confirm that the release is permanent or advise within a maximum period of 100FC/30 days to carry out some targeted additional inspections that can be planned within the given 10FC grace period otherwise specified.
- If there are findings related to phase II, report to Airbus and A/C is AOG.

4. Procedure

R

- A. Job Set-Up
 - (1) Make certain that nose and main landing gear ground locks are correctly installed.
 - (2)Extend flaps and slats (Ref. 27-50-00, P. Block 301).
 - (3)Open main gear main doors (Ref. 32-12-11, P. Block 301).
 - (4)Open nose gear main doors (Ref. 32-22-11, P. Block 301).
 - (5)Depressurize hydraulic systems (Ref. 29-10-00, P. Block 301).
 - (6)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
 - (7)Place warning notices in flight compartment prohibiting operation of all aircraft systems.
 - (8)Position access platforms.
- B. Leveling and Measurement See text, C. Inspection

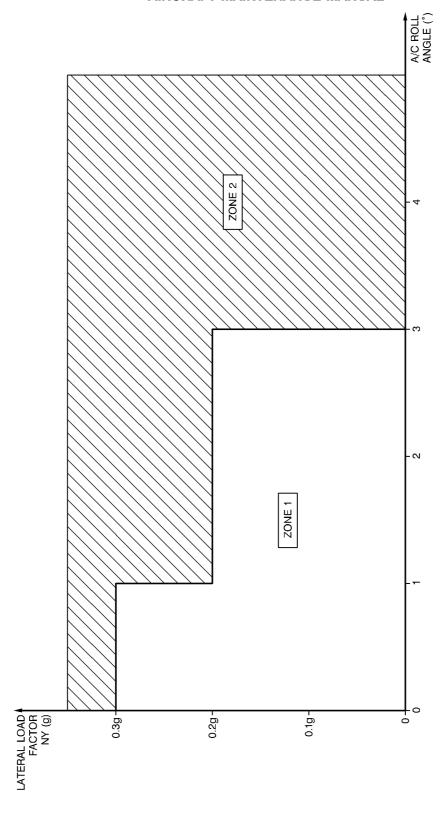
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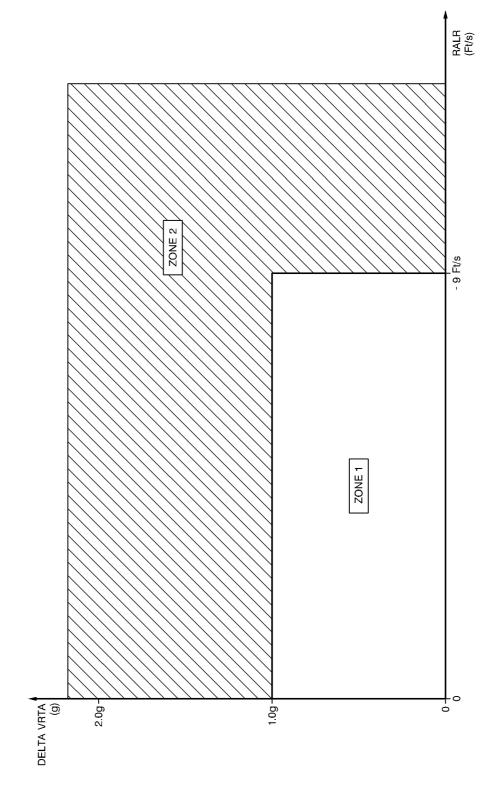
Definition of Dissymmetric Hard/Hard Overweight Landing Figure 001

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Definition of Symmetric Hard Landing
(GW ≤ MLW)
Figure 002

R Figure 002

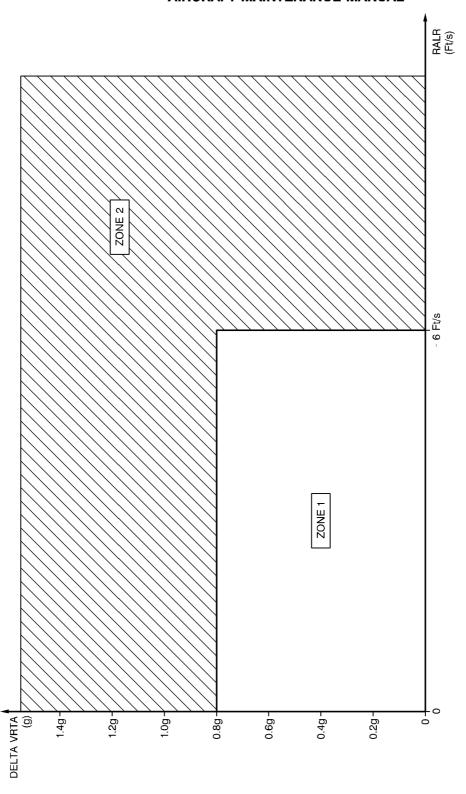
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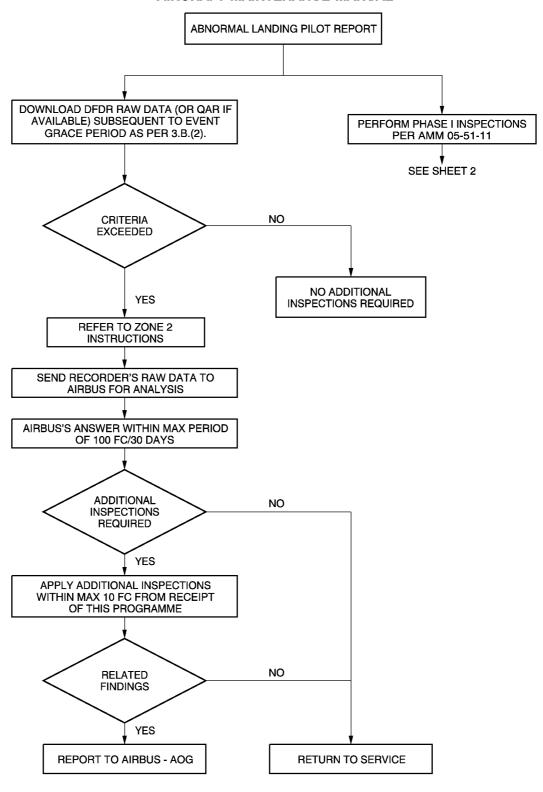
Definition of Symmetric Hard Overweight Landing (GW > MLW)
Figure 003

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Decision Tree After a Suspected Hard/Hard Overweight Landing (sheet 1/2) Figure 004

R Figure 004

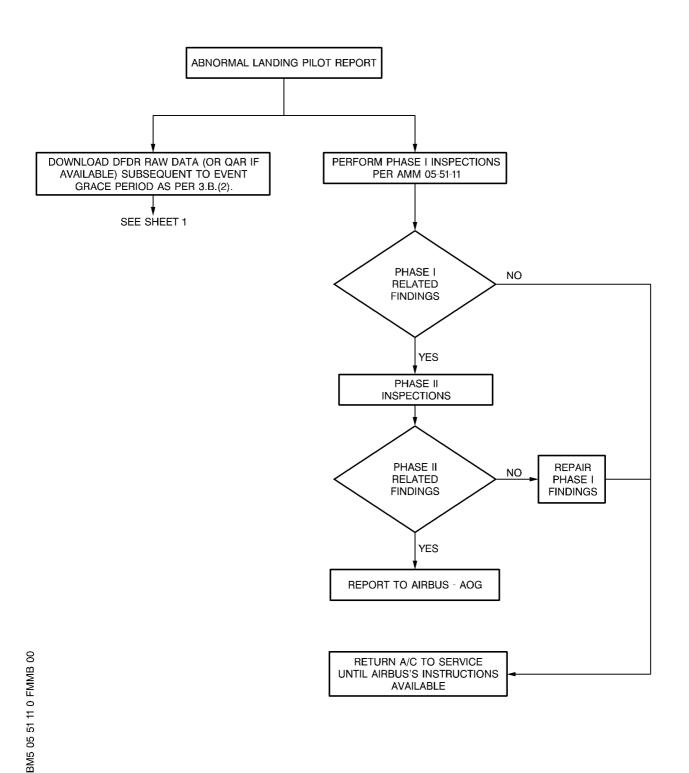
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Decision Tree After a Suspected Hard/Hard Overweight Landing (sheet 2/2) Figure 004

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- C. Inspection after Hard or Hard Overweight Landing We recommend that you get information from the crew about the landing conditions, e.g.:
 - Touch down straight, drifting, wing low, tail or nose heavy,
 - Touch down on main gears or on main and nose gears or high pitch rate on nose gear,
 - If the crew heard a noise possibly related to a structural failure,
 - Weight of the aircraft,
 - Quantity of fuel in each tank,
 - Instrument indications.
 - NOTE : After a hard/hard overweight landing, three cases have to be considered:
 - Hard touchdown on main gears only,
 - Hard touchdown on nose gear only or high pitch-rate,
 - Hard touchdown on nose and main gears.
 - a. After a hard touchdown on main gears only, the inspection of the nose gear area is not necessary.
 - b. After a hard touchdown on nose gear only or high pitch-rate:
 - only the inspection of the nose gear and NLG section of the fuselage areas is necessary,
 - send the DFDR data (raw data) to Airbus,
 - give data about the event and inspection findings,
 - contact Airbus for technical instructions,
 - obey the instructions from Airbus before the next flight.
 - c. After a hard touchdown on nose and main gear:
 - the full inspection is necessary,
 - send the DFDR data (raw data) to Airbus,
 - give data about the event and inspection findings,
 - contact Airbus for technical instructions,
 - obey the instructions from Airbus before the next flight.
 - NOTE : All inspections called for are visual unless otherwise specified in the text.

Operators may, at their own discretion or at the direction of their airworthiness authority, use non-destructive techniques in compliance with the Non-Destructive Testing Manual (NTM).

Any work upon a system as a result of the inspection for damage that entails disconnection or removal of components, pipes, ducts, cables, electrical connectors and mechanical linkages must be followed by a functional test of the system affected.

If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

If it is necessary to open (remove) access panels and doors, examine them. Make sure that:

- They are aligned correctly,
- They have no distortion or cracks,
- The paint is not damaged,

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- All fasteners and safety devices are in the correct position.

(1)Aircraft structure critical areas.

(Ref. Fig. 005)

- (2)Before starting phase 1 checks, carry out a general external inspection of the aircraft for obvious damage and fluid leakage, paying particular attention to landing gears, wheels, tires and brake units.
- (3)Pylon Identification

(Ref. Fig. 006)

(Ref. Fig. 007)

Ī	Item	Insp	•	Phase					
	 	Code 	Accomplished	1 	2	3 	Sign	Det. Fig.	
	1 	2	3	4	5	6	7 	8	
	1.		Examine Engine Pylon and Nacelle	 					
	A A 		Examine pylon panels, doors and auxi- liary structure for buckling, cracks and pulled or missing fasteners.	 			 		
R R	 B	 	Do an inspection of the fire protection system (Ref. 26-00-00, P. Block 601).	X X		 	 	 	
			 Inspect all cowl attachment points open nose cowl inspection doors and inspect internally for distortion, cracks, pulled or torn fasteners and ruptured de-icing supply pipes and starter pneumatic ducts. open all cowl doors and inspect nose cowl attachment-to-fan case for distortion, cracks and pulled or torn fasteners. inspect all cowl hinge fittings and cowl internal structure for distortion cracks, pulled or torn fasteners, honeycomb delamination and core damage inspect all cowl latches for damage and make certain operation is satisfactory. 	j i					

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	Insp Code 		Phase 1 	Phase 2	Phase 3	Sign	Ref. Det. Fig.
1	 2 	3 	 4 	5	 6 	 7 	 8
D	 	Check main frame for distortion, cracks, cracked or flaking paint, loose rivets and evidence of shearing.	x		 	 	
	 	Note: Open engine cowlings to inspect pylon lower area.	x		 	 	
		If damage found: (1) Remove or open access doors and in- spection panels and inspect panels and adjacent structure for distortion, wrinkles, buckles and tearing of plates at the rivets and stringers attached to panels (where applicable).		X		 	
 	 	 (2) Inspect: - pylon main frame for distortion and condition of spars connected to the side panels.		 x		 	
 	 	- attachments between main RIBs 1, 8, 12, 18, the upper and side panels and the lower spar cap.	 	x	 - -	 	
 	 	- electrical cables, hydraulic pipes and engine air bleed system compo- nents.	 	X	 	 	
 	 	- various components mounted on the main frame. If damage found : (1) Inspect attach fittings as follows :	 	X	 	 	

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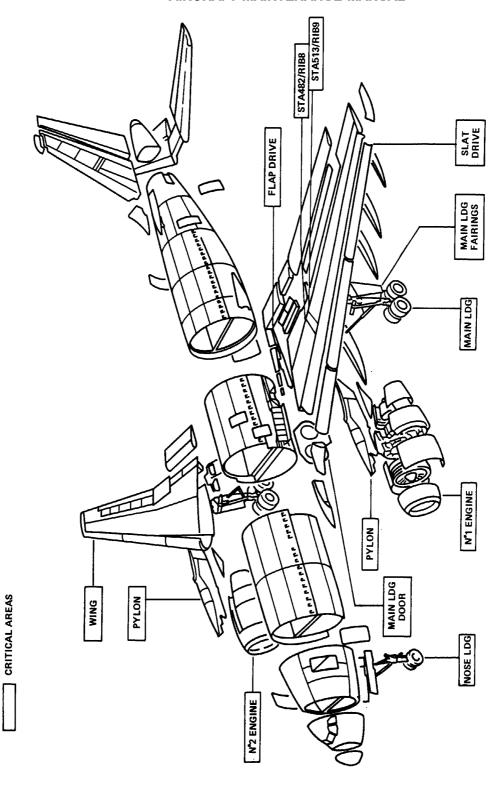
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Aircraft Structure Critical Areas Figure 005

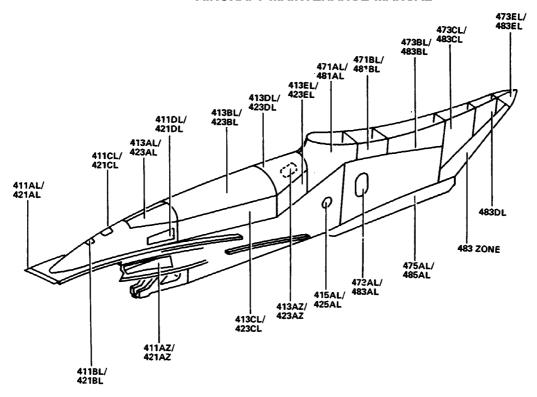
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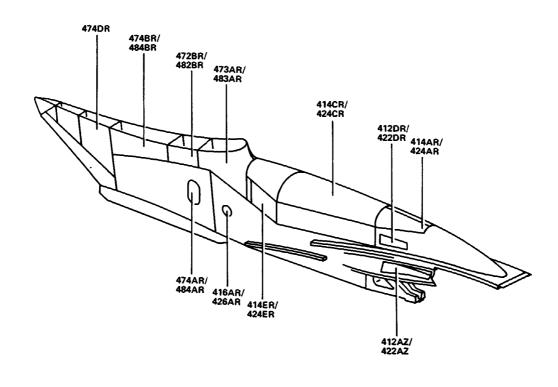
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INSPECTION AFTER/OVERWEIGHT LANDING

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Pylon - Panel Identification Figure 006

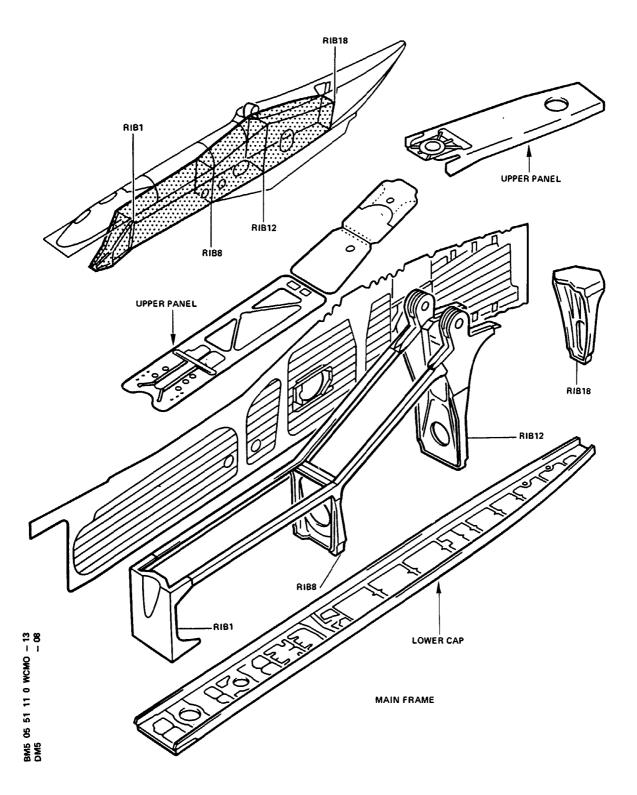
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Pylon Structure Figure 007

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(4)Engine-to-pylon and pylon-to-wing attachments
 (a)Engine-to-pylon attachments

(Ref. Fig. 008)

(b)Pylon-to-wing attachments
 (Ref. Fig. 009)

	Insp	•	Phase	Phase			
	Code	Accomplished	1	2	3	Sign	
	 	 		 	 	 	Fig
1	2	3	4	5	6	7	8
1.		Examine Engine-to-Pylon Attach Fittings		 			
A		 Remove engine (Ref. 71-00-00, P. Block 401).	 	 	 X 	 	
В		 Carry out detailed inspection of attach fittings under main wing RIBs 1 and 8 (Ref. 54-51-85, P. Block 601).	 	 	 x 	 	 A ,
		(1) back for avidance of distortion			1	I	
	 	(1)Check for evidence of distortion, damage to structure (cracks, rupture, etc.) and traces of oxidation or burning.	 	 	 	 	
2.	 	damage to structure (cracks, rupture, etc.) and traces of oxidation or	 	 	 	 	
2. A	 	damage to structure (cracks, rupture, etc.) and traces of oxidation or burning.	 	 	 X	 	
		damage to structure (cracks, rupture, etc.) and traces of oxidation or burning. Examine Pylon-to-Wing Attach Fittings		 	 		

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Item Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
Code	Accomplished	1	2	3	Sign	Det.
						Fig.
1 2	3	4	5	6	7	8

(5)Engines

Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code	Accomplished	1	2	3	Sign	Det.
	[[ļ	!	Fig.
		_				!	
1	2	3	4	5	6	7	8
1.	 	 Engine		 	 	 	
•	i	This inspection is required if phase 1	i	! 	İ	i	!
	i	check of engine pylon (Ref. para.	i	i I	İ	i İ	
	 	4. C. (3)) reveals any sign of damage.	į	 	 	 	ļ
A	 	 Carry out a thorough inspection of the		 X	 	 	
		engine (Ref. 72-00-00, P. Block 601).					
	į	(1) Perform a functional test on engine	İ		X	İ	
		controls (Ref. 76-11-00,	1				
	 	P. Block 501).		 			
	! 	 (2) Carry out engine run-up		 	 X	 	!
	I	(Ref. 71-00-00, P. Block 501).	1	l	1	I	1

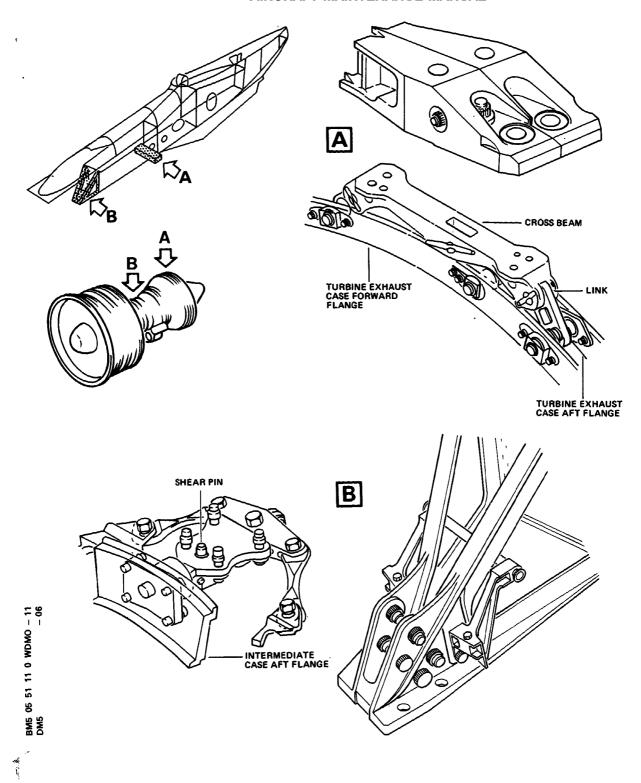
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Engine-to-Pylon Attachments Figure 008

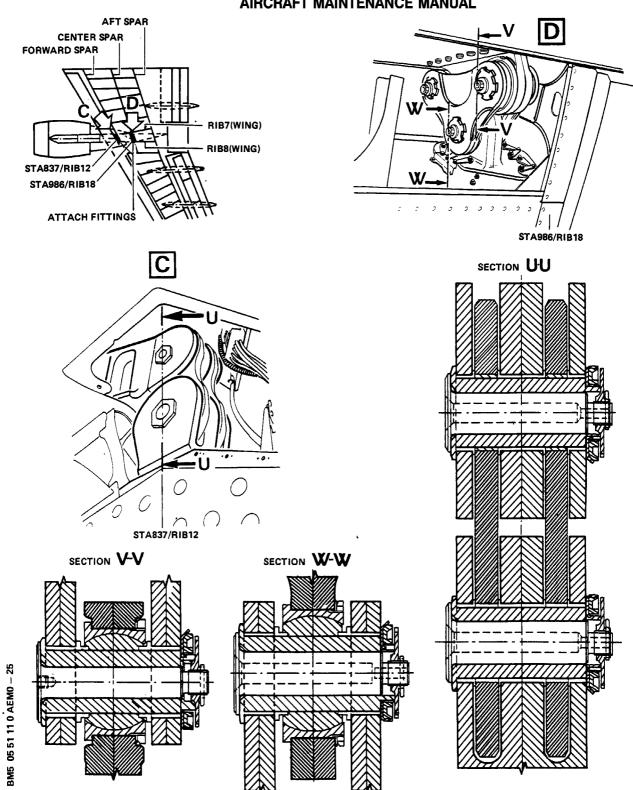
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Pylon-to-Wing Attachments Figure 009

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(6)Fuselage - Tail section (Ref. Fig. 010)
 Tail section - Stringer diagram from FR80 to FR91
 (Ref. Fig. 011)

Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code	Accomplished	1	2	3	Sign	Det.
							Fig.
1	2	3	4	5	6	7	8
1.	 	Fuselage-General	 		 	 	
A 	 	Check outer fuselage skin around emer- gency exit, passenger/crew and cargo door cut-outs.	 x 		 		
2.		Fuselage/Tail section	 			 	
 	 	Examine unpressurized area behind the pressure bulkhead - between FR80 and FR91 - and adjacent structure.	 		 		
A		Check skin and stringers for evidence of wrinkles, buckles, cracked or flaking paint and loose rivets and for evidence of shearing, distorted and twisted stringers:	 				
!		- externally	X				
!	[[If damage found:	<u> </u>				ļ ļ
		- internally		X			

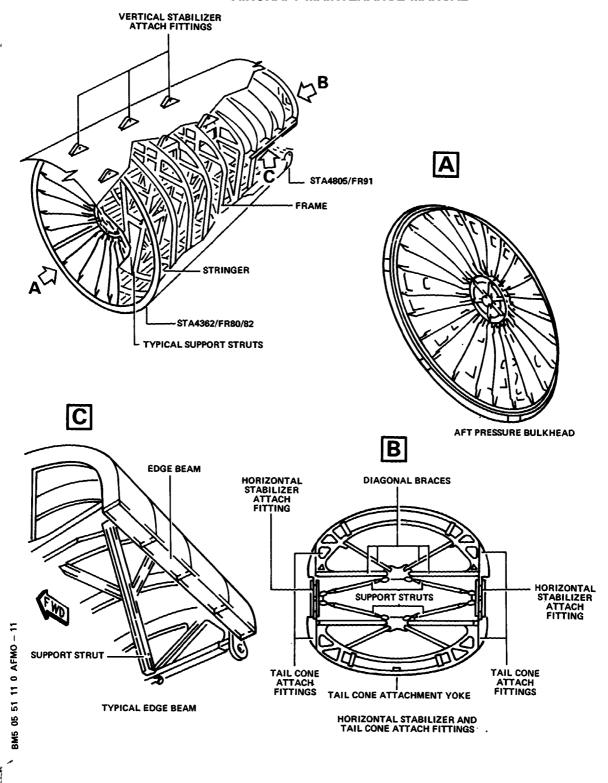
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Fuselage - Tail Section Figure 010

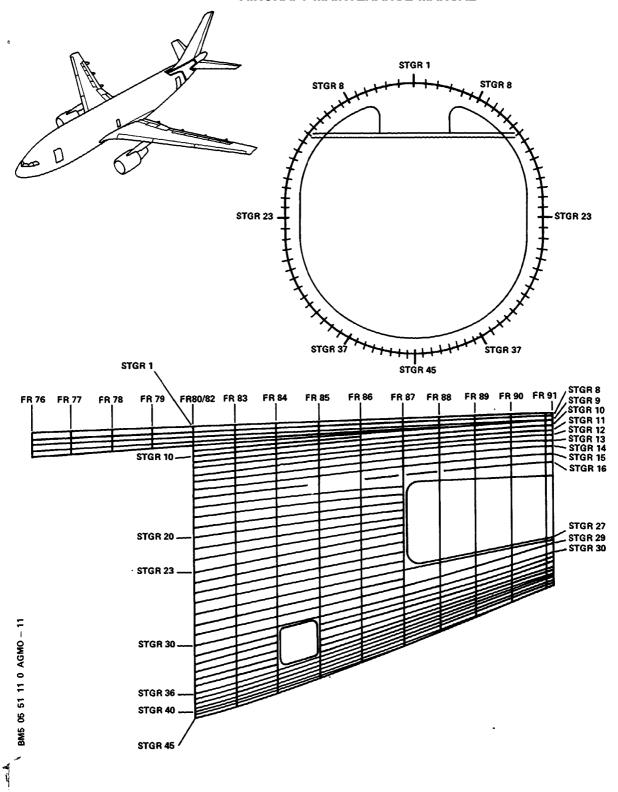
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Tail Section - Stringer Diagram from FR80 to FR91 Figure 011

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(7) Flap Operating Mechanism - (Ref. Fig. 012, 013)
Flap Tracks No's 2 to 5 - Aft attachment fittings (Ref. Fig. 014)

]		Insp Code	· · · · · · · · · · · · · · · · · · ·	Phase 1	Phase		-	Ref. Det. Fig.
	1	2	3	 4	5	6	7	 8
	1.		Flap Operating Mechanism					
R R	A		 Do an inspection of the flap operating mechanism (Ref. 27-54-00, P. Block 601).	X				
	В		Check engagement and for signs of spanwise movement of the drive shaft splines entering the gear box (90° angle) at the junction of trailing edge (FR54) and wing-root.					A A
	C		If indication of movement is evident, the drive shafts are to be considered suspect. Remove shafts (Ref. 27-54-19, P. Block 401) and follow Manufacturer's recommended Overhaul Procedures. Carry out detailed inspection of the flap operating mechanism at left and right wing trailing edges (i.e. from end to end).		Х			
	D		If there are indications of damage: (1) Remove the applicable component(s) for component maintenance.		X			
	E		Do an inspection of the attachments of the component(s).	 	x			
	F		If there are indications of damage: (1) Remove the attachments of the component(s). (2) Do an inspection of the component attachment/structure interface.		X			
	2.		Flap Tracks No. 2 to 5 - Aft Attachment Fittings L and R Check for gaps between friction bush and distance bush (Dimension 'a') using a feeler gage (Ref. 57-20-24, P. Block 601)	 X 				C
			 If gaps are found to be out of tolerance:	 				

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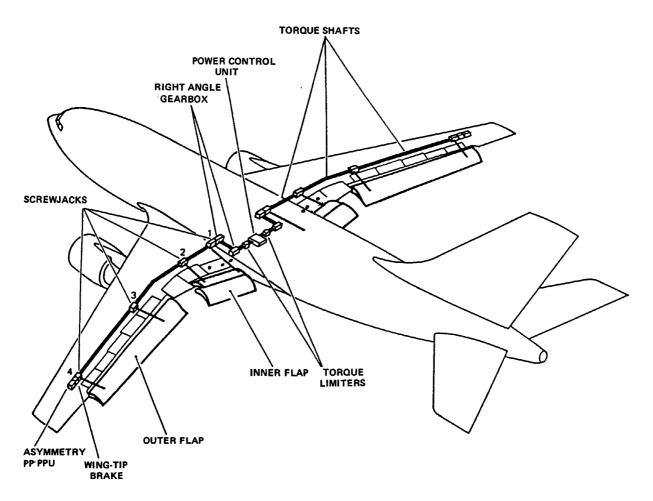
Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code	Accomplished	1	2	3	Sign	Det.
							Fig.
 1	 2	 3	 4	 5		 7	
		(1) - Support the beam.					
		- Remove the 4 tapered bolts.					
		- The bolts have to be		X			
		replaced with new ones.		X			

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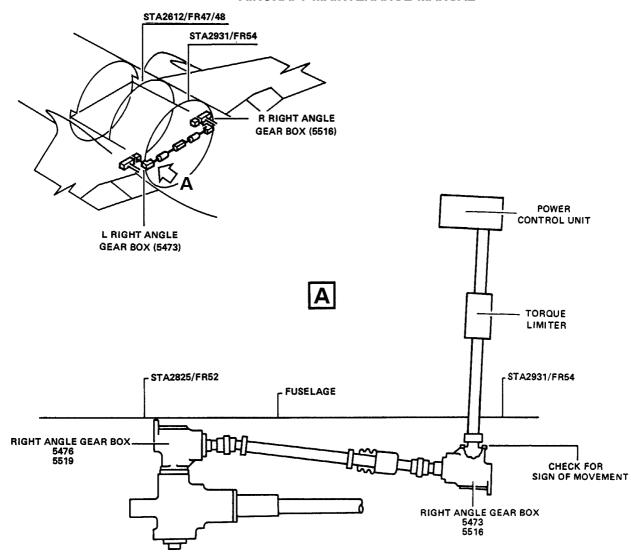
Flap Operating Mechanism Figure 012

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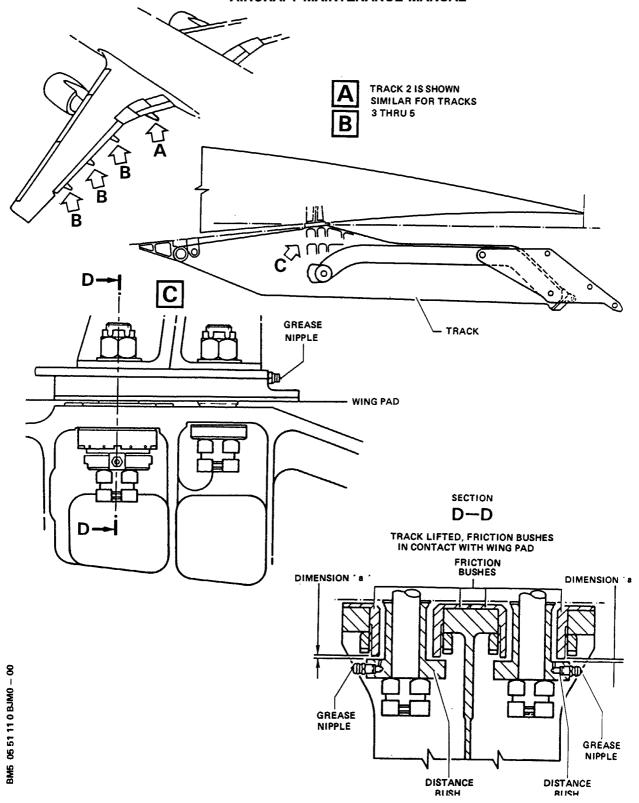
Flap Operating Mechanism - Trailing Edge/Wing Root Junction Figure 013

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Flap Tracks - Aft Attachment Fittings Figure 014

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(8)Landing gear

(Ref. Fig. 015) (Ref. Fig. 016)

NOTE: If the aircraft has not been repaired as per drawing R57249121, perform inspection of the MLG support RIB5 fitting as per SB 57-2091 requirements in the original issue, as applicable, or

later approved revisions, before subsequent flight.

R **ON A/C 226-226, 401-401, 404-500,

R Post SB 57-2090 For A/C 226-226,401-401,404-500,

NOTE: Not applicable

**ON A/C ALL

Item	Insp Code 	·	Phase 1 	2		Sign	Ref. Det. Fig.
1	2	3	4	5	6	 7	8
1.		<u>Main Gear</u>		 		 - 	
A	 	Shock Absorbers and Pitch Dampers (1)Inspect shock absorbers and pitch dampers for leakage.	 X X	 	 	 	
 	 	(2)Check shock absorber and pitch damper charging pressure (Ref. 32-11-13, P. Block 601 and Ref. 32-10-00, P. Block 601).	X 	 	 	 	
	 	(3)Inspect main gear (Ref. 32-10-00, P. Block 601).	X 	[[
 	 	NOTE: In the event of crab landing check verticality of gear leg by checking the brace strut and cross brace (buckling or elongation).	X 		 		
 	 	 If damage found: Check right and left gear bogie beams as follows: 	 	 X 	 	 	
 B 	 	 Bogie Beam Inspection (Main Landing Gear, Left and Right)	 	 	 	 	
 	 	 Check for twist and buckling. Method of inspection: (Ref. 05-56-00, P. Block 1) Viewing with the aid of a theodolite or any other approved	 	 X 	 	 	

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Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code	Accomplished	1	2	3	Sign	Det.
							Fig.
1	2	3	4	5	6	7	8
		method, of the following points:					
		- Forward wheel axis					
		- Bogie beam hinge point					
		- Rear wheel axis.					
		CAUTION : IF THE FIGURES AND DIMENSIONS					
		OBTAINED ARE NOT WITHIN THE					
		LIMITS QUOTED IN THE MANUAL,					
		A DETAILED INSPECTION OF THE					
		MAIN LANDING GEARS AS DESCRI-					
		BED BELOW SHALL BE CARRIED					
1		OUT.					

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Item	Insp Code 	·	Phase 1 	Phase 2			Ref. Det. Fig.
1	2	3	4	5	6	7	8
C 	 	Main Landing Gear Leg NOTE : It is assumed that the aircraft has been placed in a maintenance status.				 	
 	 	(1)Remove shock absorber assembly from main gear leg (Ref. 32-11-13, P. Block 401).			X 	 	
 	 	(2)Inspect main gear leg. (3)Carry out detailed inspection of shock absorber upper clevis/face.	 	 	X X 	 	
		If damage found: (4)Inspect lower face of shock strut shock absorber pickup (gain access through charging valve seat). Use an endoscope (borescope) to check for twist, distortion, cracks, deformation and other damage.			 X 	 	
		NOTE : If endoscope (borescope) inspection reveals any evidence of damage or distress, the main landing gear assembly must be removed for overhaul.				 	
D	 	 Main Wheel Well Inspect the front and rear pickup fit- tings with universal ball joint, cross brace and attachment fittings (left and right main gear) for:	 		 	 	
	 	<pre>(a) signs of impact around pickup fit- tings at rear of Rib5 (b) signs of impact at the bottom of the gear trunnion housing and ball joint at Rib4/rear spar.</pre>			X X 	 	
2.	 	Nose Gear	 	 	 	 	
A.		 Shock absorber (1)Inspect shock absorber for leakage. (2)Check shock absorber charging pres-	 X X	 	 	 	

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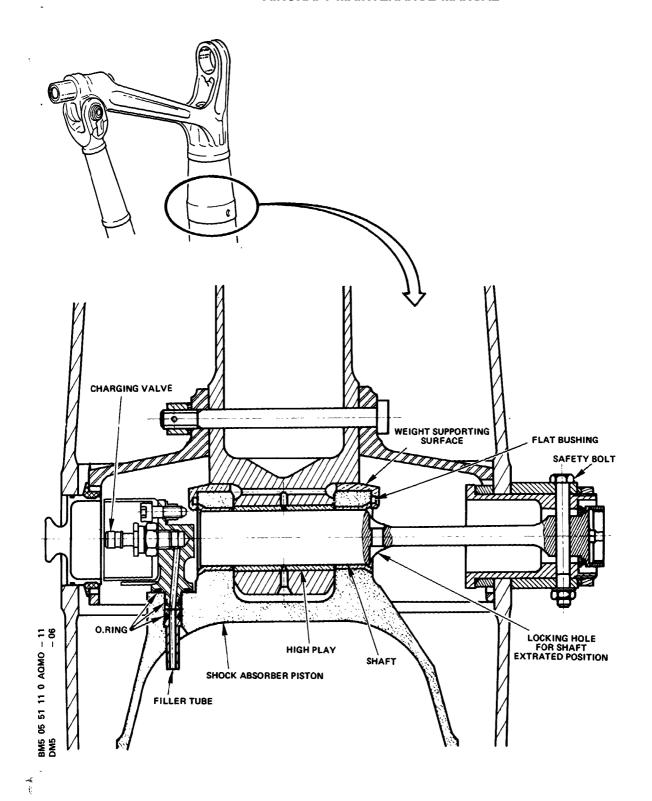
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 Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code		1 1	2		Sign	
 1		 3	 4	5	 6	 7	8
 	 	sure (Ref. 32-21-14, P. Block 601). (3)If damage/leakage is found, remove shock absorber for overhaul (Ref. 32-21-14, P. Block 401).	 	X X	 	 	
 B. 	 	 Inspect hydraulic and electric installations on nose gear leg for correct condition.	x				
 C.	•	 Check nose gear (Ref. 32-20-00, P. Block 601).	X		 	 	
		(1)Check of tightening torque of shock absorber to shock strut fasteners (Ref. 32-21-00, P. Block 601). CAUTION : THIS INSPECTION CAN BE PLAN-NED WITHIN A GRACE PERIOD OF 1 MONTH. HOWEVER, IF A FORMER "HARD LANDING EVENT (Ref. AMM 05-51-11)" HAS BEEN EXPERIENCED IN THE LAST 3 MONTHS (WITH INSPECTION NOT YET ACCOMPLISHED), THIS INSPECTION HAS TO BE PERFORMED BEFORE FURTHER FLIGHT.	X				
D. 	; 	Inspect wheels and tires for correct condition (Ref. 32-41-00, P. Block 601).	x			 	
E. 	; 	Visually check that the safety pin can be installed easily on the nose gear telescopic strut: - it has completely and easily rotated the fork-type lever of the ground locking system. - its stop flange abuts against the housing of the telescopic strut locking system (full insertion). If these conditions are not met or if there is some doubt, inspect nose gear (Ref. 32-21-00, P. Block 601).	X 	X			

(9)Main gear doors/fairings

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Main Landing Gear Shock Absorber Attachments Figure 015

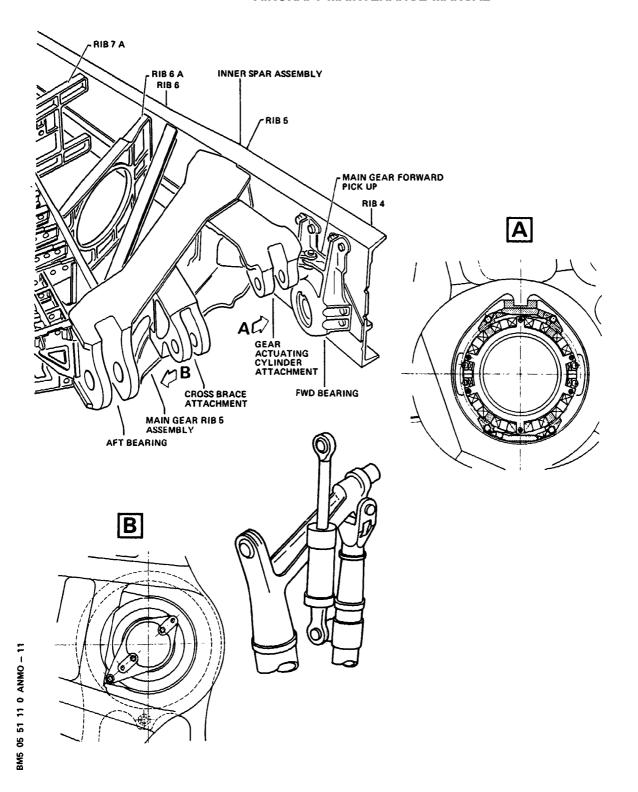
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Main Landing Gear Attachment Fittings Figure 016

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Ite	m Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code	Accomplished	1	2	3	Sign	Det.
	1						Fig.
	-						
1	2	3	4	5	6	7	8
	-						
1.	l	Main Gear Doors	 		[l	
 A	l I	 Inspect the doors, the hinges and the	 X		[[
^	i	adjacent structure.	^		! 		
i	i		İ		İ	i	i i
2.	İ	Main-Gear Fixed-Fairing	ĺ		ĺ		İ
		1					
A		Inspect the fixed fairing and the	X				
ļ	ļ	attachments to the main-gear leg.	<u> </u>				
-	ļ						
3.		Main-Gear Hinged Fairing	 		 	 	
 A	l I	 Inspect the hinged fairing and the	l I X		l I	 	
A		attachments to the main-gear leg and	1 ^		l 	 	
İ	i	the wing.	! 		! 	 	

(10) Fuselage - Nose landing gear section (Ref. Fig. 017) Nose Landing Gear - Attachments (Ref. Fig. 018)

Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
Code 	Accomplished	1 	2	3		Det. Fig.
2	 3		5	 6	 7	 8
 	Fuselage - Nose Landing Gear Section - Between STA972/FR10 and STA1340/FR18	 			 	
	<u>Note</u> : This inspection is required if phase 1 check of nose landing gear reveals any sign of damage.	 			 	
	 STA1315/FR17	! 	 	 	! 	!
	Check the lower section and junction	[ļ	
 	- externally	 	 X 	 	 	
	- internally.			х		
 	 Telescopic Strut Attachment Bearing (FR12) Check the area around the bearing the	 	 X 	 	 	 A
	attachment of the fitting on the FWD frame and roof of the nose wheel well and the link rods.	 			 	
	Code	Code Accomplished	Code Accomplished 1	Code Accomplished 1 2	Code Accomplished 1 2 3 3 3 4 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6	Code Accomplished 1 2 3 Sign

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Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code	Accomplished	1	2	3	Sign	Det.
			 	 	 		Fig.
1		3	 4	5	6	 7	 8
С		Actuating Cylinder Attachment Fitting		 X		! 	В
		(FR14)					
		Check the attachment of the actuating					
		cylinder fittings to the roof of the					
	 	arch at FR14 and FR14A.	 	 	 	 	[
D	 	 <u>Nose Gear Bearing</u> (FR16A)	 	 X	 	! 	C
		Check the attachments at STA1285/FR16A					
		and STA1315/FR17 and longitudinal beams.					

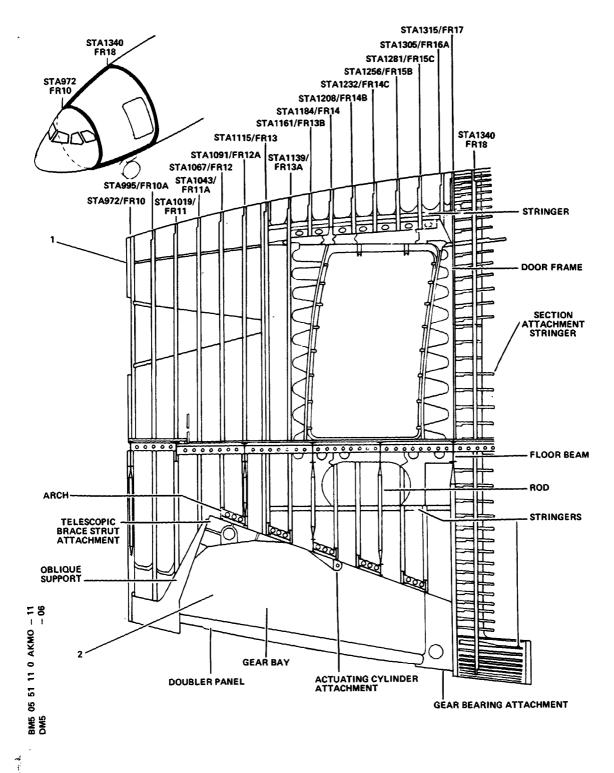
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Fuselage - Nose Landing Gear Section Figure 017

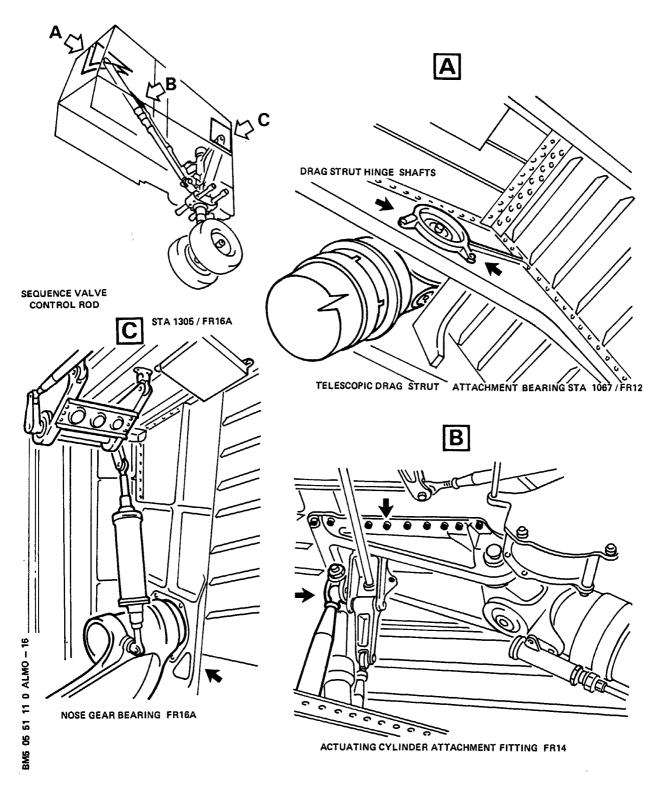
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Fuselage - Nose Landing Gear Section Figure 018

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(11)Not applicable

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(12) Fuselage Section - Between STA2241/FR39 and STA2931/FR54 - Frames and Stringers (Ref. Fig. 019)

	Insp Code 		Phase 1 	Phase 2 		Sign	
1		3	 4			 7	 8
1.	 	 <u>Fuselage Section</u> - between STA2241/FR39 and STA2931/FR54		 	 	 	
A	 	Check transverse skin splices, external- ly, at FR39 and FR54 between stringers 43LH and 43RH for buckling, loose rivets and cracked or flaking paint.	X			 	
В		Check fuselage skin externally between FR39 and FR47 and stringers 34LH and 34RH for buckling, loose rivets and cracked or flaking paint.	X			 	
С	İ	Check the canted frames at the bounda- ries of the wheel wells, their junc- tions, the fittings at FR50A and the adjacent areas.	X			 	
D		 Check the main gear brace strut attach- ment bearing housings at FR50A.	x			 	
E		Check the longitudinal edging spars of the central beam section, STA2453/FR44 to STA2878/FR53.	X			 	
		If damage found: (1) Check the floor of the central beam and the support rod.	 	 x 	 	 	
		 (2) Check the passenger cabin floor structure and support rods in main gear well.	 	x 	 	 	
		If damage found: (a) From FR40 to FR54, inspect upper fuselage splices of stringers 13LH and 13RH.		 	 	 	
		Internal check.			X		

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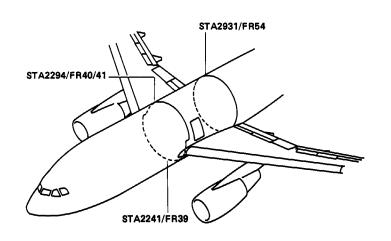
Item Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
Code	Accomplished	1	2	3	Sign	Det.
		1				Fig.
1 2	3	4	5	6	7	8

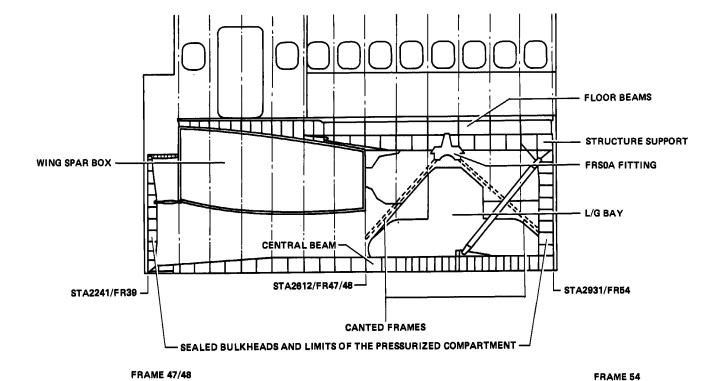
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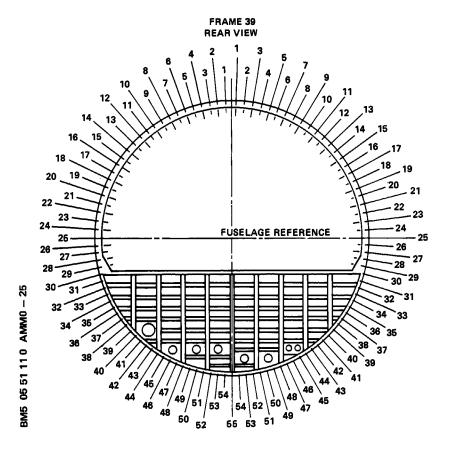
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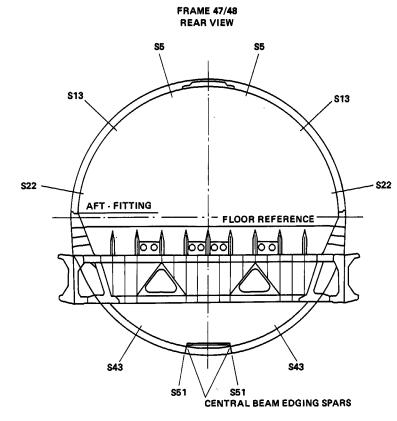
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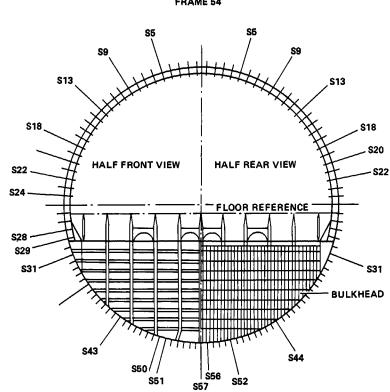
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Fuselage Section - Between STA2241/FR39 and STA2931/FR54
Frames and Stringers
Figure 019

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(13)Tail gear area - Tail gear

Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code	Accomplished	1	2	3	Sign	Det.
İ	!		!				Fig.
1	2	3	4	_	6		
1.		<u>Tail Gear Area</u>					
		Inspect tail gear area					
		(Ref. 05-51-21, P. Block 1).					

(14)Wings (Ref. Fig. 020, 021)

Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code	Accomplished	1 	2	3 	Sign 	D et.
1	2	3	 4	 5 	 6	 7 	
1.		Bottom Skin	 	 	 	 	
A		Inspect the wing bottom skin. Carefully examine the areas between RIB 1-10, paying particular attention to areas adjacent to: - the flap beams, - the engine pylon, - the MLG attachments, - the rib 9 splice. Make sure that : - there is no distortion, - there are no cracks, - the paint and the sealant are not damaged, - the fasteners are in the correct condition.	x 				
2.	 	 Top_Skin	 	 	 	 	
A 	 	Inspect the wing rib area 1-6 top skin at landing gear reinforcing plates, and wing rib area 7-9 pylon reinforcing plates rib 9 splice. Make sure that:	x 	 	 	 	

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Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insn	Ref.
1	Code		1 1	2			Det.
I I	l	r Accompt isned	! ! !	~ 	5	ı s ıgıı	
1	1	 	1	 	 	 	Fig.
1	2	3	4	5	6	1	8
							<u> </u>
		- there is no distortion,					
		- there are no cracks,					
		- the paint and sealant are not	1				
1	1	damaged,	1				
Ì	İ	- the fasteners are in the correct	Ì			l	
i	i	condition.	Ì	İ	İ	İ	i i
i	i		i	i I	i I	İ	i i
і в	i	Inspect the wing top skin between	i x			İ	i i
i -	i	RIBs 1-10. Make sure that:	ì	' 	' 	i	i i
i .	i	- there are no cracks,	ì	! 	! 	! !	
1	1		1	 	 	! !	! ! ! !
	1	- there is no distortion,		 -	 -	 -	
!	!	- the paint and sealant are not	!	<u> </u>	<u> </u>	!	!!!
ļ	!	damaged,	ļ	<u> </u>	<u> </u>	ļ	
		- the fasteners are in the					
		correct condition.					

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Item 	Insp Code 	•	Phase 1 	Phase 2 			Ref. Det. Fig.
 1 	 2 	3	 4 	, 5 	 6	 7 	 8
 C 	 	 If there are signs of damage on the wing top or bottom skins: 	 	 	 	 	
 	 	(1)Defuel the wing (Ref. 28-25-00, P. Block 301).	 	x 	 	 	
 	 	(2)Gain access to the area adjacent to the damage and do an internal ins- pection of:	 	x 	 	 	
 	 	 the applicable ribs, front and rear spars, the top and bottom skins and brackets and plates. 	 	 	 	 	
 	 	If any fasteners have failed in the region of the landing gear attachments, adjacent fasteners must be removed one at a time, inspected and replaced using oversize if necessary.				 	
 3. 	 	 <u>Wing-rib 1 to rib 10 Leading &</u> <u>Trailing Edge Structure</u>	 	 	 	 	
 	 	 Front, Rear and False rear spars and trailing edge, the Krueger flap, Box section and Slats.	 	 	 	 	
 A 	 	Inspect the front, rear and false rear spars, shroud box, fitted shroud, riblets, stringers and brackets. Make sure that: - there are no cracks, - there is no damage, - there are no fluid leaks, - the fasteners and safety devices are in the correct condition.	x	 	 	 	
' В 	 	 If there are signs of damage: 	 	 	 	 	
 	 	(1)Defuel the wing (Ref. 28-25-00, P. Block 301).	 	X 	 	 	
 	 	(2)Gain access to the wing adjacent to the damage. Do a full internal inspection of all the rib 1-10 riblets, stringers, brackets and plates, paying particular attention to areas adjacent to MLG, pylon,	 	X 	 	 	

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	Insp		Phase	Phase	Phase	Insp	Ref.
	Code 	Accomplished	1	2 	3 	3 gn	Det. Fig.
1	2	 3 	- 4 -	 5 	6 6	7	 8
	 	flap beam attachments and RIB 9 splice. Make sure that: there are no cracks, there is no damage, the paint and the sealant are not damaged, the fasteners are in the correct condition.		 	 	 	
4.	 	<mark>MLG_Attachment</mark>		 	 	 	
A		If there are indications of damage on the false rear spar: (1)Do a full inspection of these items: - the MLG fwd & aft attachments, - the MLG pintle fitting, - the MLG support rib, - the MLG actuator fitting, - the sidestay attachment, - the top edge beam, - the top diagonal stiffener, - the riblets, stringers and brackets, - the rear spar. Make sure that: - there are no cracks, - there is no damage, - the paint and the sealant are		 	 		
	 	not damaged, - the fasteners are in the correct condition.	 	 	 	 	
В		Inspect all the pipes, the hoses and the electrical looms.	 	 X	 	 	

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Item 	Insp Code 	Inspection Tasks to be Accomplished	Phase 1 	Phase 2		Sign		I
1	 2	3	 4	5	 6	 7	 8	
5.	 	Flap Operating Mechanism	 				 	
 	 	 If there are signs of damage in flap attachment: 	 		 	 	 	1 1 1
A	 	Remove the applicable flap beam fairing (Ref. 57-20-35, P. Block 401).	 	X	 	 	 	
B		Inspect the flap beam assembly(ies), make sure that : - the clearance to the wing is correct, - the paint and the sealant are not damaged, - there is no damage, - the fasteners and safety devices are in the correct condition.		X			 	
C		Inspect the applicable flap track. Make sure that there are no cracks or damage. Do this inspection with the flaps extended and retracted. NOTE : Use the applicable NTM procedure to find small cracks into the the track radii.		X		 	 	
D	 	If there are signs of damage to the flap beam(s) or flap track(s): (1)Remove the applicable flap beam assembly for component maintenance (Ref. 57-20-24, P. Block 601). (2)Gain access to the area(s) adjacent to the applicable flap beam(s). Do a full internal inspection of: the ribs, the wing top and bottom skins, the internal face of the rear spar for beams 3, 4, 5 and 6, the internal face of the rear spar for the No. 2 beam, the applicable flap beam attachments (Ref. 57-20-34,			X 			
 6.	 	P. Block 601). Slat Operating Mechanism	 		 	 	 	1

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Item	Insp Code 	•	Phase 1 	Phase 2 		Insp Sign 	
1	 2	 3	 4	 5	 6	 7	 8
Α	 	 Inspect the slat operating mechanism (Ref. 27-84-00, P. Block 601) (General Check).	X X 	 	 	 	
	 	If there are indications of damage: (1)Defuel the wing (Ref. 28-25-00, P. Block 301).	 	 X 	 	 	
	 	(2)Remove the applicable component(s) for component maintenance.		X 	 	 	
В	 	 Inspect the attachments of the component(s).	X		 	 	
		If there are indications of damage: (1)Remove the attachments of the component(s).	 	 	 	 	
	 	(2)Do an inspection of the component attachment/structure interface	 	x I	 	 	
7.	 	 If major damage is found in phase 2 inspections :		 	 	 	
A	 	 Inspect externally outboard of RIB 10. 		 	 X 	 	
В	 	 Carry out an alignment check (Ref. 05-56-00, P. Block 1).	 	 	 X 	 	

(15)Equipment/furnishings

Item	Insp	Inspection Tasks to be	Phase	Phase		Insp	Ref.	l
	Code	Accomplished	1	2	3	Sign	Det.	ĺ
							Fig.	
	 2		 4	5	 6	 7	8	
'		, 		J 	0 			l
1.	 	Equipment/Furnishings	 					
 	 	Only after a hard landing:	 					
A 		Inspect the following equipment and furnishings for security of installation:	x 					
		- passenger and crew seats						ĺ
		- wardrobes						ĺ
		- partitions						ĺ
		 passenger compartment side and 						

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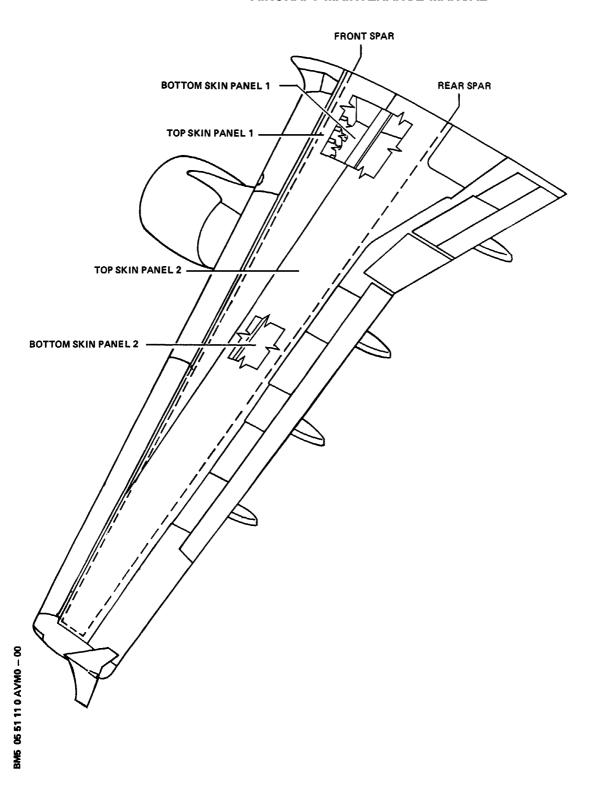
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Item	Insp Code 		Phase 1 	Phase 2 		Insp Sign 	
1	 2	 3	 4		6	 7	 8
 	 	ceiling panels flight and passenger compartment stowages buffets/galleys lavatories emergency/evacuation equipment.	 	 	 	 	
 2. A. 	 	 Emergency Locator Transmitter (ELT) Automatic ELT (If installed) Make sure that the automatic ELT is not in automatic transmission mode.	 	 	 	 	
 	 	(1)In the cockpit, on the overhead panel, on the Remote Control Panel (RCP) (111MX), make sure that the RED indicator is off. If the RED indicator is on:	X	 	 - - -	 	
 	 	<pre>(a)Immediatly set the ELT switch to TEST/RESET position (or push the TEST/RESET pushbutton) until the red indicator goes off, to stop the transmission. Then, release the ELT switch (or TEST/RESET pushbutton</pre>	 	X 	 	 	
 	 	switch). (2)In the aft cabin, make sure that the ELT buzzer does not operate. If the buzzer operates: (a)Remove the ELT access panel. (b)Set the ELT switch to OFF or	x	 X X		 	
 B. 	 	ARMED to stop the transmission. Survival ELT (If installed) (1)Make sure that the survival ELT is in the correct condition and installed correctly.	 X 	 	 	 	
 	 	(2)Make sure that the switch of the survival ELT did not move to the ON position (for an ELT that has a switch).	x 	 		 	
 	 	If the ELT switch is at ON: (a)Set the ELT switch back to OFF or ARMED, as necessary. (Refer to local regulations).	 	 x 	 	 	

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Wing Skin - Identification Figure 020

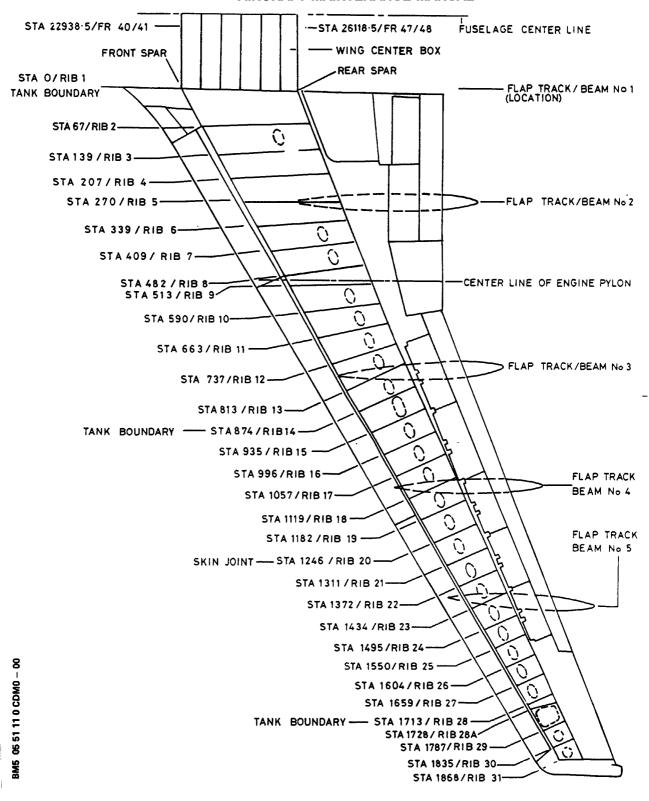
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Wing - Rib Stations Figure 021

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(16)Tail unit

Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code	Accomplished	1	2	3	Sign	Det.
							Fig.
	 2	 3	 4	 5	 6	 7	∣ ∣ 8
1	2	,	4 	ر _ا	0 	' 	ı o
1.		 Tail Unit (Fuselage Tail Section)	İ	' 	İ	! 	!
	Ì	(Zones 311, 312, 313, 314)	İ	ĺ	ĺ	ĺ	ĺ
Α	1	Carry out a visual inspection for gene-	X			l	
		ral condition of the horizontal and					
		vertical stabilizer attachment areas					
		and tail cone APU air intake areas.	ļ	<u> </u>			!
-		If damage found:		 	 	 	
		 (1) Examine for damage and evidence		 X	! 	! 	!
		of movement:					
		- Horizontal stabilizer attach					
		fittings (Ref. 55-16-11,					
 		P. Block 601).					
		- Vertical stabilizer attach					
		fittings (Ref. 55-36-11,					
		P. Block 601).					
		 Rudder attach fittings 					
		(Ref. 55-46-11, P. Block 601).					
		- Elevator attach fittings (Ref.				l	
- 1		(Ref. 55-26-11, P. Block 601).					
		(2) Examine APU air intake system		X			
		for correct condition (Ref.					
		49-16-00, P. Block 601)				1	1

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(17) Flight data, cockpit voice and maintenance recorders (if installed)

Item	Insp Code 		Phase 1 	Phase 2	Phase 3		Ref. Det. Fig.
1	2	3	4	5	6	7	8 8
1. 1.	 	Flight Data, Cockpit Voice and Maintenance Recorders (if installed)			 	 	
A 	 	Check recording units for damage and security of attachment.	x		 	 	
B 	 	If damage found: Check systems for correct operation: - Flight data recorder (Ref. 31-31-00, P. Block 501) (if installed) - Cockpit voice recorder (Ref. 23-71-00, P. Block 501) - Maintenance recorder (Ref. 31-31-00, P. Block 501) (if installed).		X		 	
C	 	Avionics Compartments (Zones 121/122)	 		 	 	
D	 	Check electrical, electronic, radio and battery racks and components for damage and security of attachment. If damage found: (1)Where structural damage necessitating repair has occurred, visually check all types of connectors for cracking and chipping.	X X	X		 	
E 	 	Check batteries for security of attachment and evidence of spilt fluid. If damage found: Check system for correct operation (Ref. 24-31-00, P. Block 601).	X	 X		 	

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(18)Water system, ram air turbine and APU

	Insp Code 	·	Phase 1 1	Phase 2	Phase 3	Insp Sign 	
1	2	3		5	6	 7	8
1.	 	Water System (Zone 138)	 X 				
2.	 	Ram Air Turbine (Zone 671) Check turbine for correct stowage. If found unlatched: (1)Check complete installation. If damage found: (a) Carry out a functional test of ram air turbine and system (Ref. 29-25-00, P. Block 501).	 x 	 x 	 x		
3.	 	APU (zone 315-316) Check the APU compartment generally for leakage. If damage found: (1) Check APU for proper installation and mountings for damage, distortion and evidence of movement. (2) Check APU fire extinguisher container ner mounting brackets and container for damage, condition and security of attachment and installation.	 	 	 	 	

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(19)Cargo compartments

Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
Code	Accomplished	1	2	3	Sign	Det.
ļ				<u> </u>		Fig.
 2	3	 4			 7	
ا ا ا	Cargo Compartments (Zones 130/150)	 	 	 	 	
	If damage. If damage found: (1) Check loading and unloading of containers/pallets and inspect cargo restraint system. In forward and aft cargo compartments, visually check side guides, pallet locks and rollers (ball units, roller assem-	x 	 	 		
	and tracks) for freedom of movement (Ref. 25-52-00, P. Block 501). (2) Check cargo compartment oxygen, fire extinguisher mounting brackets and containers for damage, condition		 	 	 	
	ode	Accomplished	Accomplished 1 2	Code Accomplished 1 2 2 3 4 5 Cargo Compartments (Zones 130/150) Check compartments as visible, for gene- X ral condition and damage. If damage found: (1) Check loading and unloading of con- X tainers/pallets and inspect cargo restraint system. In forward and aft cargo compartments, visually check side guides, pallet locks and rollers (ball units, roller assemblies, drive units, guide latches and tracks) for freedom of movement (Ref. 25-52-00, P. Block 501). (2) Check cargo compartment oxygen, fire x extinguisher mounting brackets and containers for damage, condition	Accomplished 1 2 3 Code Accomplished 1 2 3 Comparished 1 2 3 Cargo Compartments (Zones 130/150) Check compartments as visible, for gene- X ral condition and damage.	Accomplished 1 2 3 Sign 2 3 4 5 6 7 Cargo Compartments (Zones 130/150) Check compartments as visible, for gene- X

D. Test Set-Up

- (1) Make certain that all working areas are clean and clear of tools and miscellaneous items of equipment.
- (2) Remove access platforms.
- (3)Remove warning notices from flight compartment.
- (4)Close main gear main doors (Ref. 32-12-11, P. Block 301).
- (5)Close nose gear main doors (Ref. 32-22-11, P. Block 301).
- (6) Retract flaps and slats (Ref. 27-50-00, P. Block 301).

E. Test

- (1)Carry out an operational test of all systems disturbed during or as a result of the inspection.
- (2) If damage has been found and structural repairs have been made on structure adjacent to flight control surfaces, landing gear and doors, carry out functional tests of the moving parts to ensure that no fouling occurs and that door locking systems engage fully and correctly.

F. Close-Up

(1)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment and miscellaneous items.

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INSPECTION AFTER LANDING GEAR DOWN LIMITING SPEED EXCEEDED

1. General

This inspection is equally applicable if:

- The gear was extended with the aircraft over limit speed.
- The aircraft exceeds limit speed after gear extension.

2. Equipment and Materials

ITEM	DESIGNATION
Α.	Access Platforms 2.60 m., 3.40 m. (8ft. 7in., 11ft. 2in.)
В.	Warning Notices
Referenced Procedures	•
- 05-56-00, P. Block 1	Leveling And Measurement After A/C Abnormal Operation
- 06-41-53, P. Block 1	Access Doors On Fuselage And Floors
- 06-41-54, P. Block 1	Access Doors On Engine Cowls And Pylon
- 06-41-57, P. Block 1	Access Doors On Wings
- 07-11-00, P. Block 1	Jacking for Aircraft Maintenance Operations
- 21-20-00, P. Block 501	Air Conditioning - Distribution/Extraction
- 23-42-00, P. Block 501	Ground Crew Call System
- 24-41-00, P. Block 301	AC External Power Control
- 27-50-00, P. Block 301	Flaps
- 27-51-00, P. Block 501	Mechanical and Electrical Control (Flaps)
- 28-10-00, P. Block 301	Fuel - Storage
R - 28-25-00, P. Block 301	Refuel/Defuel System
- 29-10-00, P. Block 301	Main Hydraulic Power (Pressurization/
	Depressurization)
- 32-00-00, P. Block 501	Landing Gear - General
- 32-10-00, P. Block 601	Main Gear And Doors
- 32-11-13, P. Block 401	Main Gear Shock Absorber
- 32-11-13, P. Block 601	Main Gear Shock Absorber
- 32-11-15, P. Block 401	Pitch Damper
- 32-12-11, P. Block 301	Main Gear Main Door - (Ground Door(s) Opening)
- 3 2-12-11, P. Block 501	Main Gear Main Door
- 3 2-12-1 3, P. B lock 401	Main Gear Secondary Door
- 32-12-15, P. Block 401	Main Gear Cylinder Door
- 3 2-20-00, P. Block 601	Nose Gear And Doors
- 3 2-21-14, P. Block 401	Nose Gear Shock Absorber
- 32-21-14, P. Block 601	Nose Gear Shock Absorber
- 32-22-11, P. Block 301	Nose Gear Main Door - (Ground Door(s) Opening)
- 32-22-11, P. Block 501	Nose Gear Main Doors
- 32-22-13, P. Block 401	Nose Gear Aft Door
- 32-22-15, P. Block 401	Nose Gear Leg Door
- 32-30-00, P. Block 501	Extension/Retraction
- 32-51-00, P. Block 501	Nosewheel Steering
- 49-62-00, P. Block 501	Auxiliary Power Unit Emergency Shutdown

EFFECTIVITY: ALL

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3. Procedure

R

- A. Job Set-Up
 - (1) Make certain that landing gear ground safety locks are fitted correctly.
 - (2) Jack up aircraft (Ref. 07-11-00, P. Block 1).
 - <u>NOTE</u>: Lifting of the aircraft is only necessary for the PHASE 2 inspection.
 - (3)Open main landing gear doors (Ref. 32-12-11, P. Block 301).
 - (4)Open nose landing gear doors (Ref. 32-22-11, P. Block 301).
 - (5) Extend flaps (Ref. 27-50-00, P. Block 301).
 - (6)Depressurize Green, Blue and Yellow hydraulic systems (Ref. 29-10-00, P. Block 301).
 - (7)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
 - (8)Position warning notices in flight compartment prohibiting operation of all systems.
 - (9)Position access platforms.
 - (10)Open all access doors in main landing gear wells (Ref. 06-41-53, P. Block 1).
 - (11)Open all access doors in wing trailing edge falsework between STAO/RIB1 and STA513/RIB9 (Ref. 06-41-57, P. Block 1).
- B. Leveling and Measurement
 - (1)If Phase 2 damage is found, carry out a landing gear measurement and angle to aircraft axes check (Ref. 05-56-00, P. Block 1).
- C. Inspection
 - NOTE : All inspections called for are visual unless otherwise specified in the text.

Operators may, at their own discretion or at the direction of their Airworthiness Authority, use nondestructive techniques in compliance with the Aircraft Nondestructive Testing Manual (N T M).

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(1)Main landing gear (Ref. Fig. 001)

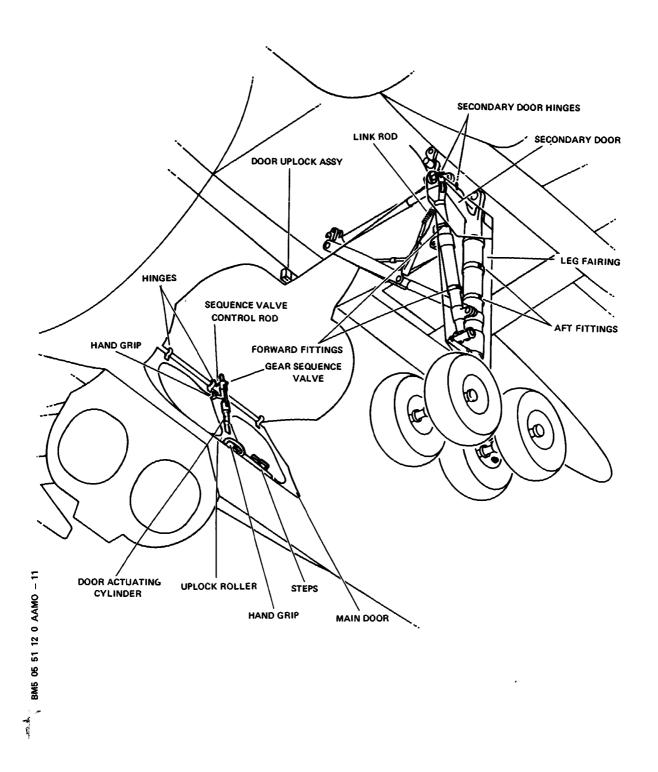
Item	Insp Code	Inspection Tasks to be Accomplished	Phase	Phase	Phase	Insp Sign	Ref. Fig.
1	2	3	4	5	6	7	8
1.	 	Main landing gear assem- blies. 		 	 	 	
Α.	 	Inspect gear components, hoses, pipes, electrical looms, control cables, pulleys and their mounts on the gears (Ref. 32-10-100, P. Block 601).	X	 	 	 	
В.	 	Inspect shock absorber for fluid leakage; if ap- parent: (1) Remove shock absorber for bay overhaul (Ref. 32-11-13, P. Block 401)		 X 	 	 	
С.	 	 Remove leak detector bleed-screw, if fluid and/or nitrogen leakage occurs :	X	 	 	 	
	 	(1)Check shock absorber (Ref. 32-11-13, P. Block 601).		X 	 	 	
	 	(2)Recheck for fluid-ni- trogen leakage; if ap- parent : (a) Remove shock ab- sorber for bay overhaul (Ref. 32-11-13, P. Block 401).		X 	 x 	 	
D.	 	Inspect pitch dampers for fluid leakage; if appa- rent (1) Remove pitch dampers for bay overhaul (Ref. 32-11-15, P. Block 401).	X	 	 	 	

EFFECTIVITY:	ALL	
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Main Gear and Doors Figure 001

EFFECTIVITY: ALL

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(2) Main landing gear doors

Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase	Phase	Insp Sign	R ef. Fig.
1	2	3	4	5	6	7	8
11.		MLG Main doors		 		 	
A -		Inspect the doors, their hinges and adjacent structure (Ref. 32-10-00, P. Block 601)	Х			 	
B. 		Inspect the door actua- ting cylinders, sequence valves and their hoses and pipes (Ref. 32-10-00, P. Block 601)	X			 	
2.		MLG Cylinder doors		 		 	
 A. 3.		Inspect the doors and their attachments to the leg cylinder and drag strut (Ref. 32-10-00, P. Block 601) MLG Secondary doors	X			 	
A.		Inspect the doors their hinges, operating rod and adjacent structure (Ref. 32-10-00, P. Block 601)	X	 		 	

(3) Fuselage section STA2241/FR39 to STA2931/FR54 main landing gear wells STA2612/FR47/48 to STA2931/FR54 (Ref. Fig. 002)

Item	Insp		Phase	Phase	Phase		
	Code	Accomplished	1	2	3	Sign	Fig.
1	2	3	4	5	6	7	8
1.	 	Fuselage underside STA	 	 	 	 	
ĺ	1	2241/FR39 to STA2931/FR54			ĺ		
A.		Inspect fuselage undersi-	X				
		de skin panels for dis-					
	[tortion, cracks, pulled					
		or torn fasteners and			[
		damaged paintwork.					
1	1	If damage found :		1	1	1	1

			'	•
EFFECTIVITY:	ALL			
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Item 	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase	Phase 3	Insp Sign	Ref. Fig.
 1 	2	3	4	5	6		8
 	 	(1) In air conditioning compartment inspect frames, stringers and cleats for buckling, cracks and damaged paintwork		X 	 	 	
 		(2) In air conditioning compartment inspect pipes, ducts, electrical looms, control cables, pulleys components and their mounts for fluid leatkage, distortion rupture, breaks, cracks, security of attachment, and condition of safetying devices.		X 		 	
 2. 	 	MLG wells STA2616/FR47/48 to STA2931/FR54			 	 	
A- - - - - - -		Inspect the diagonal fra- mes at the boundaries of the wheel wells, their junctions at FR51 and ad- jacent areas for distor- tion, cracks, pulled or torn fasteners and dama- ged paintwork.	X			 	
 B. 	 	Inspect mutiple clevis STA2772/FR51 for distor- tion, cracks and damaged paintwork.	X	 	 	 	
C. 		Inspect longitudinal ed- ging spars of the central beam section STA2453/FR44 to STA2878/FR53 for buck- ling, cracks, pulled or torn fasteners and dama- ged paintwork. If damage found: (1) Inspect the floor of		 X	 	 	

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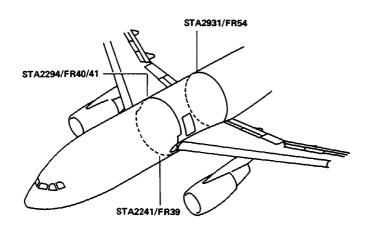
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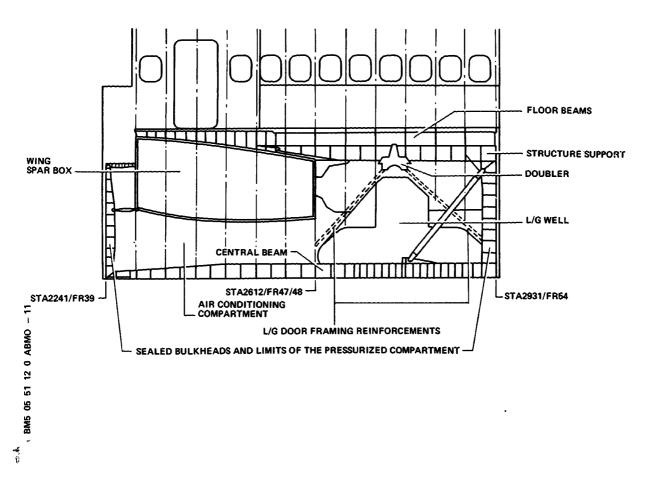
Item	Insp Code	Inspection Tasks to be Accomplished	Phase	Phase	Phase	Insp Sign	
1	2	3	4	5	6	7	8
	 	the central beam and the brace strut for distortion, cracks, pulled or torn fasteners and damaged paintwork. Inspect all components,	X			 	
		pipes, ducts, electrical looms; control cables, pulleys, transmission systems and their mountings for distortion, cracks, misalignment, rupture, fluid leakage, pulled or torn fasteners, damaged paintwork and condition of safetying devices				 	

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Air Conditioning Compartment Main Wheel Well and Hydraulic Compartment Figure 002

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(4)Wings STAO/RIB1 to STA539/RIB8 (Ref. Fig. 003, 004)

Item 	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3	Insp Sign	Ref. Fig.
1	2	3	4	5	6	7	8
1. 1. 	 	Trailing edge falsework STAO/RIB1 to STA539/RIB8 	 	 	 	 	
A. 	 	Inspect trailing edge falsework skins, inner flap deflectors, and all speed aileron servo con- trol access door for distortion, cracks, pul- led or torn fasteners and damaged paintwork. If damage found: (1) Inspect rear false spar, RIB extensions 5a, 6a and 7a and rear spar for distortion, cracks, pulled or torn fas- teners, damaged paintwork and fuel leaks.	X	 			
	 	(2) Inspect main gear FWD and AFT hinge fittings cross brace assy attach fittings, and main gear actuating cylinder attach fittings for cracks, distortion and damaged paintwork. If damage found: (a) Defuel wing tanks (Ref. 28-25-00, P. Block 301) and ventilate (Ref. 28-10-00, P. Block 301). (b) Enter fuel tanks and inspect spars RIBs, stringers, splices and engipylon mountings for distortion, cracks, pulled or		X 	 		

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Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase	Insp Sign	Ref. Fig.
1	2	3	4	5	6	7	8
	 	torn fasteners, damaged paintwork and sealant fil- lets.			 	 	
В.	 	Inspect all components, pipes, electrical looms, control cables, pulleys, transmission systems and their mountings for dis- tortion, cracks, misali- gnment, rupture, fluid leakage, torn or pulled fasteners, damaged paint- work and condition of safetying devices.	X				
2.	 	Wing skins STAO/RIB1 to STA539/RIB8.					
Α.	 	 Inspect wing skins exter- nally for distortion, cracks, pulled or torn fasteners, damaged paint- work and fuel leaks. If damage found :	X			 	
	 	(1) Defuel wing tanks (Ref. 28-25-00, P. Block 301) and venti- late (Ref. 28-10-00, P. Block 301).		X		 - - -	
	 	(2) Enter fuel tanks and inspect spars, ribs, stringers, splices and engine pylon mountings for distortions, cracks, pulled or torn fasteners, damaged paintwork and sealant fillets.		X			
	 	NOTE : If structural da- mage to wing main spar boxes or trailing edge fal- sework is found a				 	

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Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1			•	Ref. Fig.
1	2	3	4	5	6	7	8
		flap retraction/		 	 	 	
		extraction test					
		must be carried					
		out (Ref. para-					
		graph E. Test				1	

(5)Pylon

R

(Ref. Fig. 005)

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Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase	Phase 3	Insp Sign	Ref. Fig.
1	2	3	4	5	6	7	8
Α.		Inspect engine pylon skins and panels for dis- tortion, cracks, pulled or torn fasteners and damaged paintwork. If damage found : (1) Remove pylon access panels adjacent to damage (Ref. 06-41-54, P. Block 1) and inspect internal structure for dis- tortion, cracks, pulled or torn fas- teners and damaged		X			
	 	paintwork. (2) Inspect all components, pipes, ducts, electrical cable looms, control cables pulleys and their mounts and fire protection system for distortion, cracks, rupture, breaks, security of		X	 	 	

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- 	Item	Insp Code	:	Phase	Phase 2	Phase		Ref. Fig.
	1	2	3	4	5	6	7	8
			attachment and con-			 	 	
			\mid dition of safetying \mid					
			devices.					
			If further damage found :					
			(a) Remove all panels			X		
			and open engine					
			cowls and inspect					
			all main structu-					
			re.					

(6)Nose landing gear and doors (Ref. Fig. 006)

Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3	Insp S ign	Ref. Fig.
 1		 3	4	 5	6	 7	 8
1.	 	Nose landing gear assy.		 	 	 	
Α.		Inspect gear, components, hoses pipes, electrical looms, control cables, pulleys and their mounts on the gear (Ref. 32-20-100, P. Block 601).	X				
В.		Inspect shock absorber for fluid leakage, if ap- parent. (1) Remove shock absorber for bay overhaul (Ref. 32-21-14, P. Block 401).	X	 X 			
C.		Check shock absorber	X	 			
2.	 	NLG main doors		 			'
A -		Inspect the doors, their hinges and adjacent structure (Ref. 32-20-00, P. Block 601).	X				

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Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase	Insp Sign	
1	2	3	4	5	6	7	8
B.		Inspect the door actua- ting cylinders, sequence valves and their linkages (Ref. 32-20-00, P. Block 601)	Х			 	
3.		NLG aft doors				! 	
A.		Inspect the doors, door hinges and operating lin-kages (Ref. 32-20-00, P. Block 601).	X			 	
4.		NLG leg door.				 	
A. 		Inspect the door, linkage rollers and uplock hooks (Ref. 32-20-00, P. Block 601)	X			 	

(7) Fuselage STA972/FR10 to STA1393/FR19 nose landing gear well STA1019/FR11 to STA1315/FR17 (Ref. Fig. 007)

Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3	Insp Sign	Ref. Fig.
1	2	3	4	5	6	7	8
1.	 	Fuselage STA972/FR10 to STA1393/FR19		 	 	 	
Α.	 	 Inspect fuselage, skin panels for distortion, cracks, pulled or torn, fasteners and damaged paintwork.		 	 	 	
	 	External If damage found :	X	 	 	 	
	 	(1) Remove avionics com- partment floor panels (Ref. 06-41-53, P. Block 1).		X 	: 	: 	
	 	(2) Inspect frames, stringers and cleats for buckling, cracks		X 	: 	: 	

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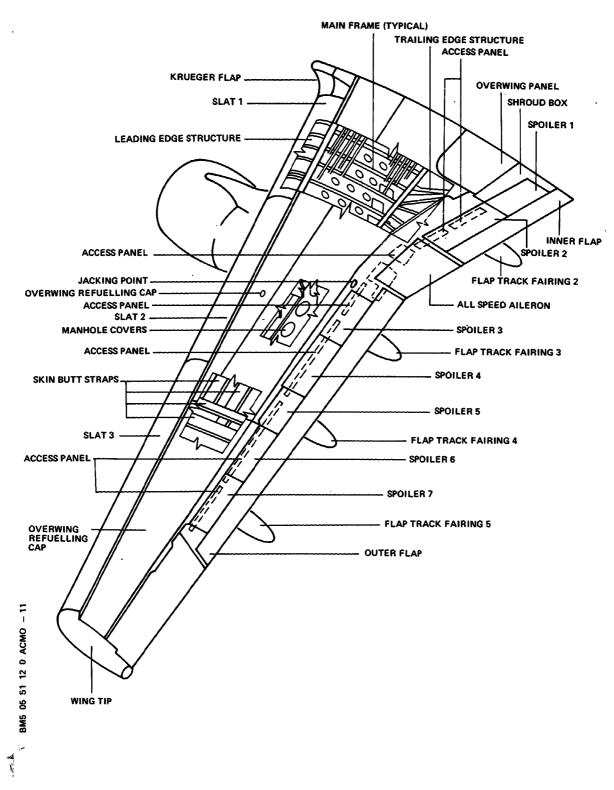
AIRCRAFT MAINTENANCE MANUAL

Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3	Insp Sign	Ref. Fig.
1	2	3	4	5	6	7	8
	 	and damaged paint- work.		 	 	 	
2.	! !	NLG well		 	 	 	
Α.	 	Inspect nose gear hinge fittings, actuating cy- linder attach fittings and telescopic drag strut attach fittings for dis- tortion, cracks and dama- ged paintwork.	ĺ	 	 	 	
В.	 	Inspect gear well roof, fwd, aft and sidewall structure for distortion, cracks and damaged paint- work. If damage found: (1) In avionics compart-		 X	 	 	
	 	ment, inspect nose gear well roof and wall structures for distortion, cracks and damaged paint- work.			 	 	
C.	 	Inspect all components, hoses, pipes, electrical looms control cables, pulleys and their mounts for distortion, cracks, rupture and fluid leakage. (Ref. 32-20-00, P. Block 601).	X	 	 	 	

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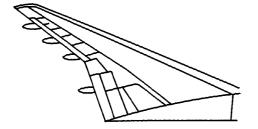
Wing General Arrangement Figure 003

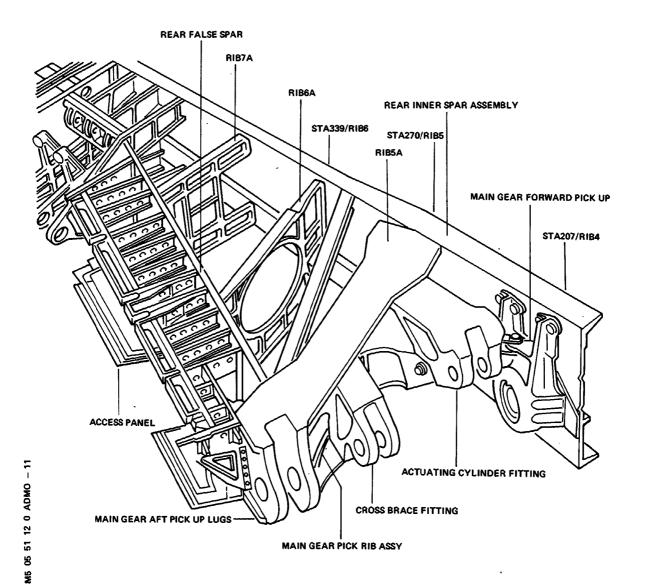
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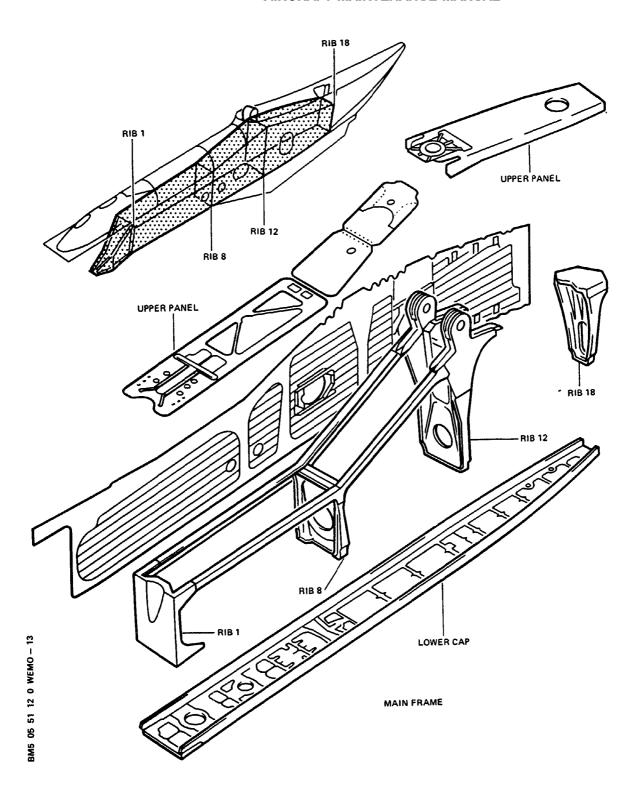
Main Gear Attachment Figure 004

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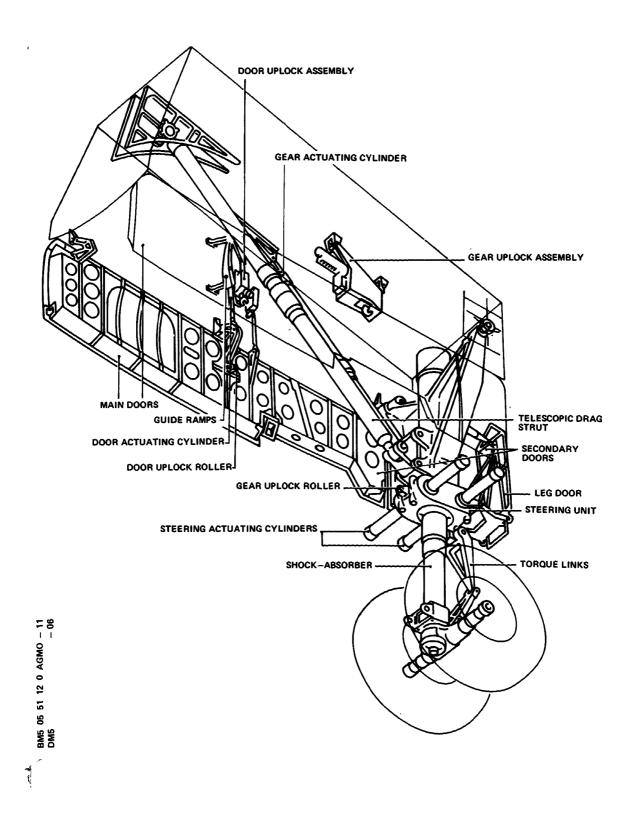
Pylon Identification View Figure 005

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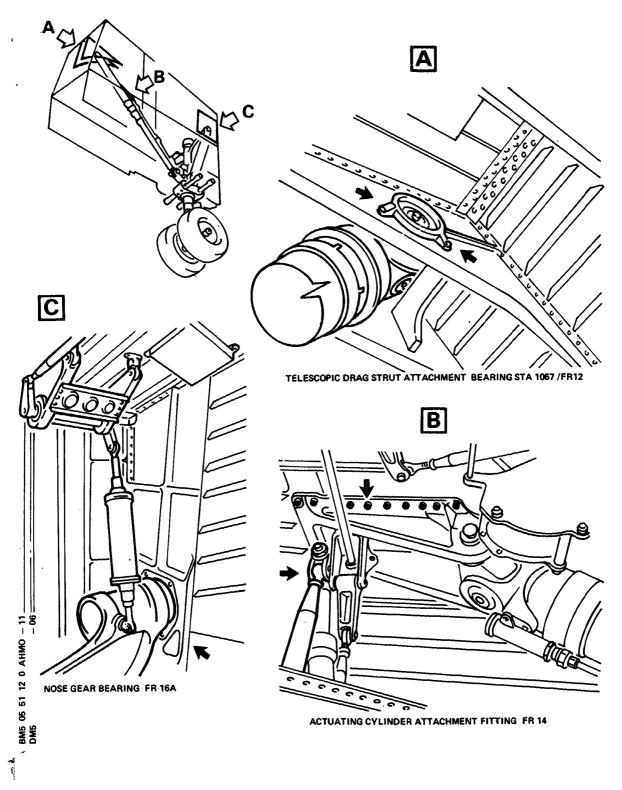
Nose Gear and Doors Figure 006

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Nose Gear Attachment Figure 007

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- D. Job Set-Up
 - (1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
 - (2)Close all access doors in the wings trailing edge falsework between STAO/RIB1 and STA513/RIB9 (Ref. 06-41-57, P. Block 1).
 - (3)Close all access doors in the main landing gear wells (Ref. 06-41-53, P. Block 1).
 - (4) Remove warning notices from flight compartment.
 - (5) Remove access platforms.
 - (6)Close main landing gear doors (Ref. 32-12-11, P. Block 301).
 - (7) Close nose landing gear doors (Ref. 32-22-11, P. Block 301).

E. Test

Item 	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3	Insp Sign	Ref. Fig.
 1	2	3	4	5	6	7	8
· 1	 	Retract/extend landing gears 3 times, ensuring that movement is smooth and that no fouling or binding between moving parts and fittings or structure (Ref. 32-30-00, P. Block 501, functional test).		X 	 		
 	 	NOTE : This check, is only necessary if damage to landing gear attachments or structure adjacent to them was found on inspection.		 	 		
 2. 	 	With gears retracted check into/out of wind tolerances of doors (Ref. 32-12-11, P. Block 501; 32-12-13, P. Block 401; 32-12-15, P. Block 401; 32-22-11, P. Block 501; 32-22-13, P. Block 401; 32-22-15, P. Block 401). NOTE : This check is only necessary if dama- ge to doors, their		X 			
	 	attachments and adjacent structure		 	 	 	

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Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3	Insp Sign	
1	2	3	4	5	6	 7	8
	 	was found on ins- pection.		 		 	
3.	 	Extend/retract flaps 3 times, ensuring that mo- vement is smooth and that no fouling or binding between moving parts, fittings and structure occurs (Ref. 27-51-00, P. Block 501, functional test).		X		 	
	 	NOTE: This test is only necessary if wing structural damage was found on ins-pection (Ref. sec-tion (4) of this topic).				 	
4.	 	Carry out operational tests of all systems con- nected through interphone box 3WC on nose gear shock strut (Ref. 21-20- 00, P. Block 501) (Ref. 23-42-00, P. Block 501) (Ref. 32-51-00, P. Block 501) (Ref. 49-62- 00, P. Block 501).	X			 	
5.	 	 Carry out a proximity de- tector continuity test (Ref. 32-00-00, P. Block 501).	X	 		 	

F. Close-Up

- (1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
- (2) Retract flaps (Ref. 27-50-00, P. Block 301).
- (3)Lower aircraft onto its wheels (Ref. 07-11-00, P. Block 1).
- (4) Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment,

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all access equipment and miscellaneous items.

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INSPECTION AFTER FLAP/SLAT LIMITING SPEED EXCEEDED

1. General

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A. Inspection

(1) This inspection is necessary if the aircraft has been operated with the flaps/slats extended at a speed higher than the values shown on the VFE placard (after an activation of the overspeed warning).

NOTE : This inspection is necessary if the overspeed occurred either during or after flaps/slats extension.

NOTE: If only the slats have been extended when the aircraft speed was more than the values shown on the VFE placard, do an inspection of the slats only.

B. Inspection Instructions in Relation to the Speed in Excess of VFE.

(1) If the A/C speed was not more than 10 kts higher than the value shown

on the VFE placard :

(a)Do an external visual inspection and a retraction/extension test of the flaps and/or slats (as described in the Para. 3.E. operational test of the flight control surfaces) within the next ten flight cycles or at the latest during the next weekly check.

NOTE : If the VFE is exceeded again before you do the visual inspection and the retraction/extension test, you must do the full inspection given in this procedure before the next flight.

(2) If the A/C speed was more than 10 kts above the value shown on the VFE placard:

(a)Do the full inspection of the flaps and/or slats as given in this procedure before the next flight.

2. Equipment and Materials

ITEM	DESIGNATION
A.	Access Platforms 3.40 to 5.70 m (11 ft. 2 in. to 18 ft. 8 in.)
В.	Warning Notices
Referenced Procedures	-
- 24-41-00, P. Block 301	External Power
- 27-50-00, P. Block 301	Flaps
- 27-50-21, P. Block 401	Movable Fairings - Flap Track
- 27-51-00, P. Block 501	Mechanical and Electrical Control (Flaps)
- 27-54-00, P. Block 601	Hydraulic Actuation and Power Transmission (Flaps)
- 27-80-00, P. Block 301	Lift Augmenting (Slats and Krueger Flap)
- 27-81-00, P. Block 501	Mechanical and Electrical Control (Slats)
- 28-10-00, P. Block 301	Storage
- 28-25-00, P. Block 301	Refuel/Defuel System
- 29-10-00, P. Block 301	Main Hydraulic Power (Pressurization/
-	Depressurization)
- 32-12-11, P. Block 301	Main Gear Main Doors - (Ground Door(s) Opening)

EFFECTIVITY: ALL

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R 3. Procedure

- A. Job Set Up
 - (1) Make certain that landing gear ground safety locks are fitted correctly.
 - (2)Open main landing gear doors (Ref. 32-12-11, P. Block 301).
 - (3) Fully extend flaps and slats (Ref. 27-50-00 and 27-80-00, P. Block 301).
 - (4)Depressurize Green, Blue and Yellow hydraulic systems (Ref. 29-10-00, P. Block 301).
 - (5)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
 - (6)Position warning notices in flight compartment.
 - (7)Position access platforms.
- B. Leveling and Measurement Not applicable
- C. Inspection

(Ref. Fig. 001)

NOTE : All inspections called for are visual unless otherwise specified in the text.

Operators may, at their own discretion or at the direction of their airworthiness authority, use nondestructive test techniques in compliance with the A 310 Nondestructive Testing Manual (NTM).

(1) Flaps STAO/RIB1 to STA1651/RIB21

Item Ins Cod	• •	P					has 3				
1 2	3		4		5		6		7		8
1.	Flap assemblies 	 		 				 		 	
A - 	Inspect inner flaps and vanes, outer flaps and track fairings and linkages for distortion, cracks, pulled or torn fasteners, honeycomb delamination or core damage and damaged paintwork.	 	x							 - - -	
B. 	Inspect vane attachment fittings and track for distortion, cracks and damaged paintwork.	 	x	 						 	
 2.	 Flap tracks, carriages and screwjacks	 		 						 	

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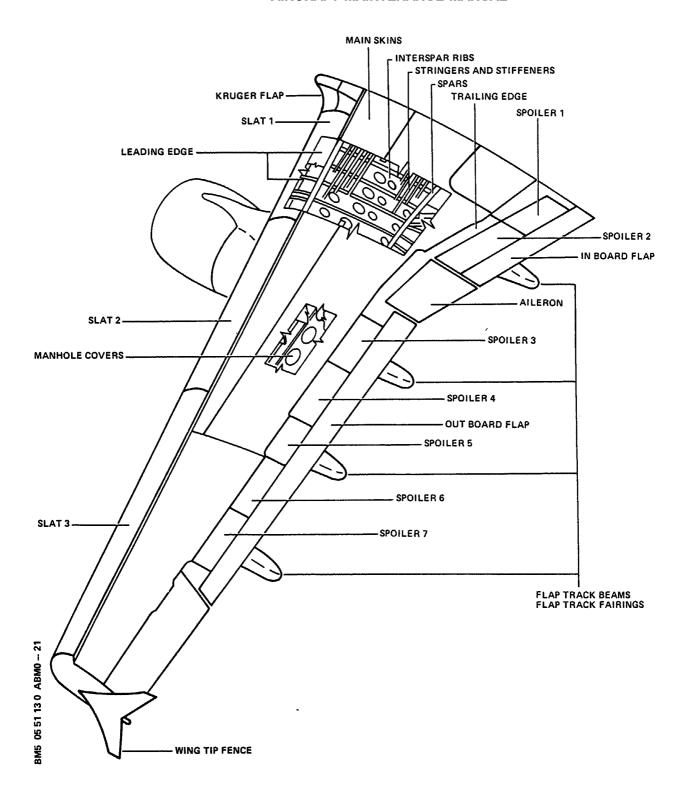
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Item 	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp Sign		
1	2	3	4	5	6	7	8	1
1	2	Remove fwd fairings (Ref. 27-50-21, P. Block 401) and inspect flap beams for distortion, cracks, pulled or torn fasteners and damaged paintwork -use a mirror if necessary. If damage found remove aft fairings (Ref. 27-50-21, P. Block 401) (1)Inspect flap carriages for distortion, cracks, damaged paintwork and condition of safetying devices (2)Inspect flap screwjacks for distortion, cracks and signs of binding If damage found remove aft fairings (Ref. 27-50-21, P. Block 401) Flap transmission system (a)Check integrity of primary and secondary load paths (Ref. 27-54-00, P. Block 601). (b)Inspect transmission shafts for distortion, cracks, pulled or torn fasteners and damaged paintwork (c)Inspect universal joints and	 	5	6 	7 7 	 8 	
		steady bearing mountings for distortion and cracks (d)Inspect right angle gearboxes for oil leakage If damage found: (1)The complete system must be regarded as suspect and the entire system, screwjacks, shafts, bearings and gearboxes subjected to the manufacturer's overhaul procedure		 	 x 	 	 	

EFFECTIVITY: ALL

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Component Location Figure 001

R EFFECTIVITY: ALL

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(2)Wings STAO/RIB1 to STA1868/RIB31 (Ref. Fig. 002, 003)

Item 	Insp Code		P 	hase 1	P 	hase 2		nase 3			-		
1	2	3		4		5	l	6	I	7	'	8	3
1.		Flap track attachments	 		 		 						
A		Inspect flap track 1 attachment fittings at wing root junctions and their attachment fittings to frames 52 and 56 for distortion, cracks and damaged paintwork If damage found: (1) In main landing gear well and aft cargo compartment, inspect frames 52 and 54 for distortion, cracks and damaged paintwork				x							
 	 	<u>NOTE</u> : With fwd fixed fairing still removed Fwd.	 -				 						
 B. 	 	Inspect flap tracks 2 thru 5 attachment brackets, and adjacent structure for distortion, cracks and fuel leakage. If damage found remove aft fairings (Ref. 27-50-21, P. Block 401) (1)Inspect complete attachment of flap		x	 	×	 		 				
	 	track (2)Defuel wing tanks (Ref. 28-25-00, P. Block 301) and ventilate (Ref. 28-10-00, P. Block 301)	 		 	x	 						
	 	(3)Enter tanks and inspect Ribs 5, 13, 18, 23 and rear spar for distortion, cracks and damaged sealant fillets.			 	x	 						

(3)Slats and Krueger flaps STAO/RIB1 to STA1835/RIB30. (Ref. Fig. 004)

Item Insp Code	Inspection Tasks to be Accomplished										ef. ig.
1 2	3		4		5		6		7		8
1.	Slats assemblies	-						-		-	
A.	Inspect slats, fairing plates and		X								

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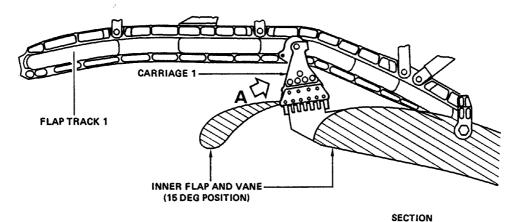
	Insp Code		Phase 1	Phase 2		Insp Sign	
1	2	3	4	5	6	7	8
	 	slat No.1 folding doors for distor- tion, cracks, pulled or torn fasteners, honeycomb delamination or core damage and damaged paintwork.	 	 	 	 	
2.		Slat screwjacks and tracks		 	 	! 	
Α.		Inspect track and screwjack attachments on the slats for distortion, cracks, pulled or torn fasteners and condition of safetying devices.	x 	 	 	 	
В.		<pre>Inspect screwjacks and tracks for distortion, cracks, fluid leakage and condition of safetying devices. If damage found : (1)Slat transmission system (a)Inspect transmission shafts for distortion, cracks, pulled or torn fasteners and damaged</pre>	x	 x 	 	 	
		 paintwork. (b)Inspect universal joints and steady bearing mountings for distortion and cracks. (c)Inspect line gearboxes for oil leakage 	 	 x x x	 	 	
3.		Krueger flap		 	 	 	
Α.		Inspect Krueger flap, folding nose and hinged door for distortion, cracks, pulled or torn fasteners and damaged paintwork.	x x 	 	 	 	
В.		Inspect Krueger flap actuator attachment brackets, lateral displacement linkage, folding fairing actuating rod and hinges for distortion, cracks, damaged paintwork and condition of safetying devices.	x 	 	 	 	

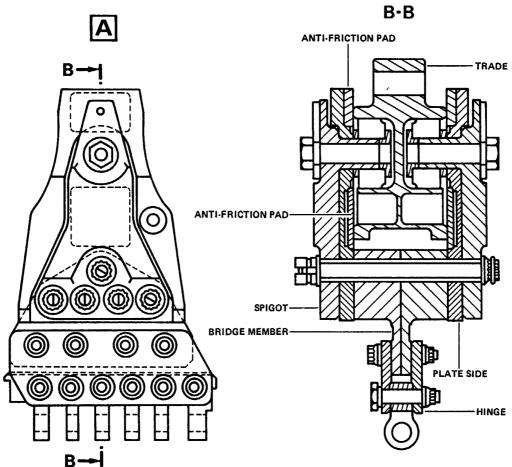
(4)Wings STAO/RIB1 to STA1868/RIB31 (Ref. Fig. 005)

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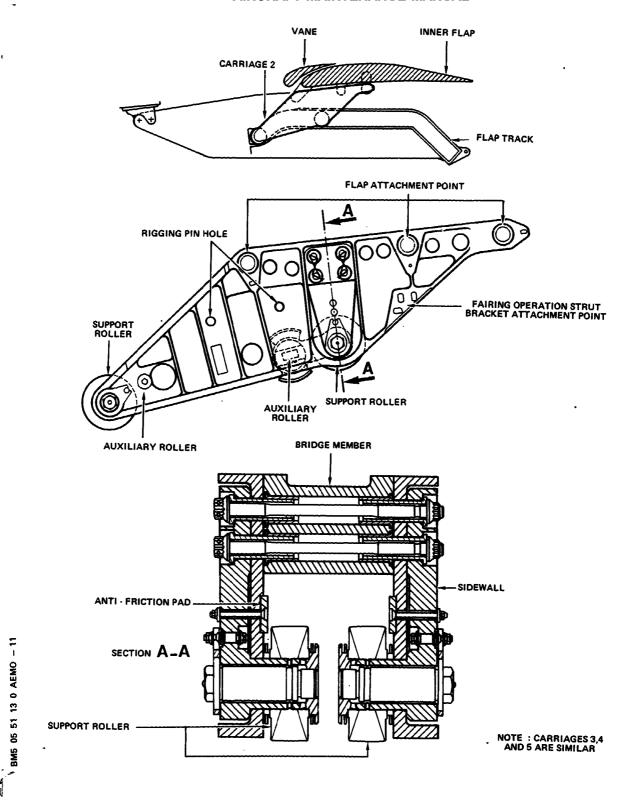
Flap Tracks - Carriage 1 Figure 002

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Flap Tracks - Carriage 2 to 5 Figure 003

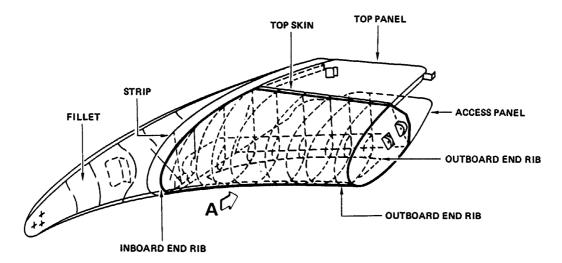
EFFECTIVITY: ALL

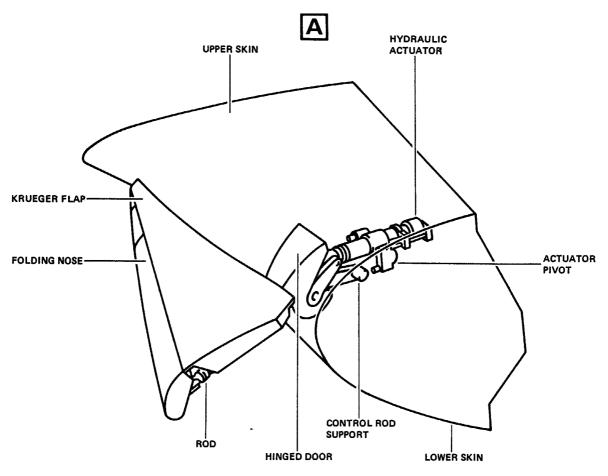
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Krueger Flap Figure 004

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Item Insp Code	Inspection Tasks to be Accomplished	Phase	e Phase 2			p Ref. n Fig.
1 2	3	4	5	6	7	8
1.	Slat track and screwjack structure		 			
A.	Inspect track and screwjack ribs for distortion, cracks, pulled or torn fasteners, damaged paintwork and signs of fuel leakage If damage found: (1)Inspect track and screwjack	x 	 x	 	 	
	accommodation cans for signs of fuel leakage If leakage found:	 	 		 	
	(1) Defuel wing tanks (Ref. 28-25-00, P. Block 301) and ventilate (Ref. 28-10-00, P. Block 301).	 	 	x 	 	
	(2)Enter wings and inspect front spar area for distortion, cracks and damaged sealant fillets	 	 	x 	 	

(5) Fuse lage STA2241/FR39 to STA2931/FR54

Item Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		-	Ref. Fig.
1 2	3	4	5	6	7	8
	If structural damage is found: (1)Flap transmission system	 	 	 	 	
	(a)Inspect flap shafting between control unit and tee gearbox for	 	x 	 	 	
	distortion, cracks, pulled or torn fasteners and damaged	 	 	 	 	
	<pre>paintwork. (b)Inspect torque limiter and mountings for distortion and</pre>	 	 x 	 	 	
	cracks. If damage found:	 	 	 	 	
	(1)The complete system must be regarded as suspect and the entire sys-	i I	 	x 	; 	i i I i
	tem, shafts, bearings, gearboxes and components subjected to the	[[
	<pre>manufacturer's overhaul procedure If structural damage is found :</pre>	 	 	 	 	
	(2)Slat transmission system	 	 	 	 	
	(a)Inspect slat shafting, steady		x			

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Item Insp Code	Inspection Tasks to be Accomplished								nsp ign		
1 2	3		4		5		6		7	8	
	bearings and their mounts	 									
	between the slat control unit										
	and the coupling boxes for										
	distortion, cracks, pulled or										
	torn fasteners and damaged										
	paintwork.										
	<pre>(b)Inspect slat tee gearbox for</pre>				X						
	distortion, cracks and oil										
	leakage.										

- D. Test Set-Up
 - (1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
 - (2)Install flap track fixed fairings.
 - (3)Install flap movable fairings (Ref. 27-50-21, P. Block 401).
 - (4) Remove access platforms.
 - (5)Remove warning notices from flight compartment.
 - (6)Close main landing gear (main) doors (Ref. 32-12-11, P. Block 301).

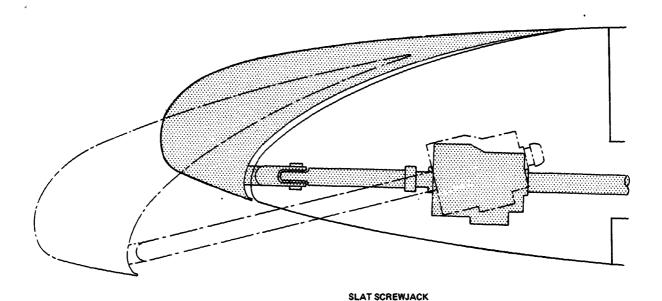
E. Test

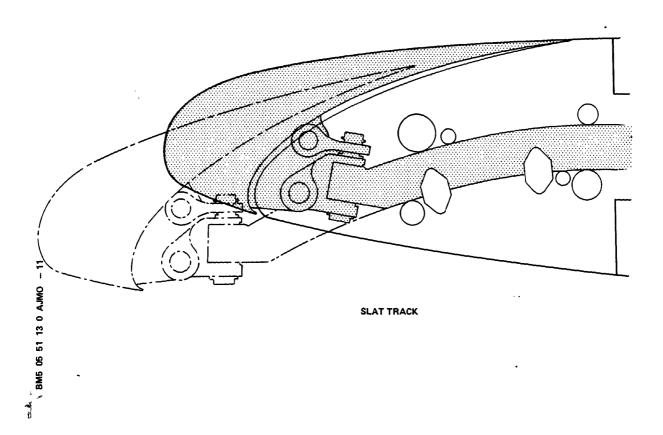
Item Insp Code	Inspection Tasks to be Accomplished	P 				hase 3				
1 2	3		4		5	6		7	1	8
	NOTE: The following tests are necessary if any structural damage to the respective surface or its adjacent structure has been found. Retract/extend flaps 3 times, ensuring that movement is smooth and that no fouling or binding between moving parts, fittings or structure occurs (Ref. 27-50-00, P. Block 301, Functional Test)	 	x		x		- 			
2.	Retract/extend slats and Krueger flaps 3 times ensuring that movement is smooth and that no fouling or binding between moving parts, fittings or structure occurs (Ref. 27-81-00, P. Block 501, Functional Test)	 	x						! 	

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Typical Slat Track Installation Figure 005

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F. Close-Up

- (1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
- (2) Retract flap and slats (Ref. 27-50-00 and 27-80-00, P. Block 301).
- (3)Depressurize hydraulic systems (Ref. 29-10-00, P. Block 301).
- (4) Deenergize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (5)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment, all access equipment and miscellaneous items.

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AIRCRAFT MAINTENANCE MANUAL

INSPECTION OF AIRFRAME AFTER BIRD OR HAIL STRIKE

1. Inspection of Airframe After Bird or Hail Strike in Flight

<u>WARNING</u>: THERE IS A POSSIBLE HEALTH RISK TO PERSONNEL WHO DO MAINTENANCE TASKS AFTER A BIRD STRIKE. THE SAFETY MEASURES THAT FOLLOW ARE RECOMMENDED.

- USE DISPOSABLE GLOVES.
- USE CUT-RESISTANT GLOVES OVER THE DISPOSABLE GLOVES.
- USE A DISPOSABLE COVERALL IF THERE IS A RISK OF BODY CONTACT WITH THE BIRD REMAINS (ORGANIC MATTER) DURING FEATHER COLLECTION OR ENGINE CLEANING.
- DO NOT USE PRESSURIZED AIR OR WATER TO CLEAN THE PARTS WHICH WERE IN CONTACT WITH THE BIRD.
- REMOVE THE BIRD REMAINS AND PUT THEM IN A PLASTIC BAG.
- DO NOT TOUCH YOUR FACE, EYES, NOSE, ETC. WITH YOUR GLOVES.
- REMOVE THE GLOVES AND THE DISPOSABLE COVERALL AND PUT THEM IN THE SAME PLASTIC BAG AS THE REMAINS. SEAL THE BAG.
- DISCARD THE BAG AS YOU DO FOR USUAL GARBAGE.
- CAREFULLY WASH YOUR HANDS WITH SOAP AND WATER.

A. Equipment and Materials

R

	ITEM	DESIGNATION
	(1)	Access Platform 1.5 m to 16.9 m (5 ft. to
		55 ft. 6 in.)
	(2)	Warning Notices
	(3)98A27608013000	Safety Collar - Spoiler/Actuator Piston
	(4)98A27608014001	Safety Collar - Airbrake Actuator Piston
	Referenced Procedures	
	- 05-51-19, P. Block 1	Inspection after Engine Bird Strike or
		Slush Ingestion
R	- 12-21-11, P. Block 1	External Cleaning
R	- 22-27-39, P. Block 401	Standby Alpha Probe (27CC)
	- 24-41-00, P. Block 301	AC External Power Control
	- 27-11-00, P. Block 501	Mechanical and Electrical Control (Aileron)
	- 27-21-00, P. Block 501	Mechanical Control (Rudder)
	- 27-31-00, P. Block 501	Mechanical Control and Pitch Uncoupling
	- 27-41-00, P. Block 501	Mechanical Control (THS)
	- 27-50-00, P. Block 301	Flaps
	- 27-51-00, P. Block 501	Mechanical and Electrical Control (Flaps)
	- 27-60-00, P. Block 301	Spoilers and Speedbrakes
	- 27-81-00, P. Block 501	Mechanical and Electrical Controls (Slats)
	- 29-10-00, P. Block 301	Main (Hydraulic Power)
	- 32-10-00, P. Block 601	Main Gear and Doors
	- 32-12-11, P. Block 301	Main Gear Main Door (Ground Door(s) Opening)
	- 32-20-00, P. Block 601	Nose Gear and Doors
	- 32-22-11, P. Block 301	Nose Gear Main Door (Ground Door(s) Opening)
	- 32-31-00, P. Block 501	Extension and Retraction
R	- 34-10-00, P. Block 301	Flight Environment Data
R	- 34-11-15, P. Block 401	Pitot Probes 40DA, 41DA and 42DA
R	- 34-11-15, P. Block 601	Pitot Probes 40DA, 41DA and 42DA
R	- 34-11-18, P. Block 401	Total Air Temperature Probe 11FL1 (11FL2)

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		DESIGNATION						
- 34-1	 1-19, P. Block 401	Alpha Probes 48FL1 (48FL2)						
- 56-1	1-11, P. Block 601	Windshield Panels						
	1-12, P. Block 601	Fixed Side Window Panels						
	2-11, P. Block 601 4-00, P. Block 101	Sliding Side Window Panels Trouble Shooting Manual (T	CM/					
110	4 ooy 11 beook 101	Trouble Grobering Hamade (1)	5 11 <i>7</i>					
	rocedure							
(1) Job Set-Up (a) Make certain that the landing gear ground safeties are fitted correctly.								
	-	ft electrical network (Ref. 24-	41-00, P. Block 30					
		aulic systems (Ref. 29-10-00, P						
		d slats (Ref. 27-50-00, P. Bloc						
		and speedbrakes (Ref. 27-60-00)						
(f)Fit the spoiler and speedbrake actuator safety collars P/N 98A27608013000 and P/N 98A27608014001.								
P/N 98A276U8U13UUU and P/N 98A276U8U14UU1. (g)Open the main landing gear main doors (Ref. 32-12-11, P. Block 301).								
(h)Open the nose landing gear main doors (Ref. 32-22-11, P. Block 301).								
(j)De-energize the aircraft electrical network.								
(k)Depressurize the hydraulic systems. (l)Place warning notices in the flight compartment prohibiting operation								
of all aircraft systems.								
(m)Position the access platforms.								
	(m)Position the access	platforms.						
	(n)Open, safety and tag	the following circuit breaker	s:					
	(n)Open, safety and tag 1 For CAPT pitot prob	the following circuit breaker	s: 					
	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE	g the following circuit breakers be 41DA: IDENT.	s: LOCATION					
PANEL	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE	g the following circuit breakers be 41DA: IDENT.	LOCATION					
PANEL	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE	g the following circuit breakers DENT. DT/SUPPLY 5DA	LOCATION 207/C24					
PANEL	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE PROBE HEAT/CAPT/PITO	g the following circuit breakers DENT. DT/SUPPLY 5DA	LOCATION 207/C24					
PANEL PANEL	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE PROBE HEAT/CAPT/PITO 2 For F/O pitot probe	g the following circuit breakers DENT. DT/SUPPLY 5DA 40DA: IDENT.	LOCATION 207/C24					
PANEL PANEL	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE PROBE HEAT/CAPT/PITO 2 For F/O pitot probe SERVICE ANTI-ICE/PROBES/F/O/ 3 For standby pitot p	the following circuit breakers be 41DA: IDENT. OT/SUPPLY 5DA e 40DA: IDENT. /PITOT 9DA	LOCATION 207/C24 LOCATION					
PANEL	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE PROBE HEAT/CAPT/PITO 2 For F/O pitot probe SERVICE ANTI-ICE/PROBES/F/O/ 3 For standby pitot probe SERVICE	pthe following circuit breakers the 41DA: IDENT. OT/SUPPLY 5DA e 40DA: IDENT. /PITOT 9DA probe 42DA:	LOCATION 207/C24 LOCATION					
PANEL PANEL 132VU PANEL	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE PROBE HEAT/CAPT/PITO 2 For F/O pitot probe SERVICE ANTI-ICE/PROBES/F/O/ 3 For standby pitot probe SERVICE	the following circuit breakers the 41DA: IDENT. OT/SUPPLY 5DA 40DA: IDENT. /PITOT 9DA probe 42DA: IDENT.	LOCATION 207/C24 LOCATION 322/N67					
PANEL PANEL 132VU PANEL	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE PROBE HEAT/CAPT/PITO 2 For F/O pitot probe SERVICE ANTI-ICE/PROBES/F/O/ 3 For standby pitot probe SERVICE PROBE HEAT/STBY PITO 4 For total air temper	The following circuit breakers of 41DA: IDENT. OT/SUPPLY 5DA 40DA: IDENT. PITOT 9DA Orobe 42DA: IDENT. OT SUPPLY 55DA	LOCATION 207/C24 LOCATION 322/N67 LOCATION					
PANEL PANEL 132VU PANEL 22VU	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE PROBE HEAT/CAPT/PITO 2 For F/O pitot probe SERVICE ANTI-ICE/PROBES/F/O/ 3 For standby pitot probe SERVICE PROBE HEAT/STBY PITO 4 For total air temper	The following circuit breakers be 41DA: IDENT. OT/SUPPLY 5DA 40DA: IDENT. OT SUPPLY 55DA erature probe 11FL1:	LOCATION 207/C24 LOCATION 322/N67 LOCATION 207/C28					
PANEL 132VU PANEL 22VU PANEL PANEL PANEL	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE PROBE HEAT/CAPT/PITO 2 For F/O pitot probe SERVICE ANTI-ICE/PROBES/F/O/ 3 For standby pitot probe SERVICE PROBE HEAT/STBY PITO 4 For total air tempe	The following circuit breakers be 41DA: IDENT. OT/SUPPLY 5DA E 40DA: IDENT. OT SUPPLY 9DA Probe 42DA: IDENT. OT SUPPLY 55DA Perature probe 11FL1: IDENT.	LOCATION 207/C24 LOCATION 322/N67 LOCATION 207/C28					
PANEL 132VU PANEL 22VU PANEL 22VU	(n)Open, safety and tag 1 For CAPT pitot prob SERVICE PROBE HEAT/CAPT/PITO 2 For F/O pitot probe SERVICE ANTI-ICE/PROBES/F/O/ 3 For standby pitot probe SERVICE PROBE HEAT/STBY PITO 4 For total air tempe SERVICE	The following circuit breakers of 41DA: IDENT. OT/SUPPLY 5DA 40DA: IDENT. OT SUPPLY 55DA Perature probe 11FL1: IDENT. IDENT. IDENT. 97L1	LOCATION 207/C24 LOCATION 322/N67 LOCATION 207/C28 LOCATION 208/B19					

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R R		<u>5</u> For total air temperature probe 11FI	L2:	
R	PANEL	SERVICE		LOCATION
R R R	21VU 132VU	ADS/ADC2/115VAC ANTI-ICE/PROBES/F/O/TAT	9FL2 70DA	_
R R		<u>6</u> For ALPHA probe 48FL1:		
R R	PANEL		IDENT.	LOCATION
R R R R	21VU 22VU 22VU	ADS/ADC & ALPHA PROBES TEST/PWR PROBE HEAT/CAPT/ALPHA SUPPLY ADS/ADC1/26VAC 7 For ALPHA probe 48FL2:	28FL 1DA 8FL1	207/C25
R R	PANEL			LOCATION
R R R	21VU 21VU 132VU	ADS/ADC & ALPHA PROBES TEST/PWR ADS/ADC2/26VAC ANTI-ICE/PROBES/F/O/ALPHA	28FL 8FL2 51DA	105/E07 105/E09 323/M71
R R		<u>8</u> For standby ALPHA probe 27CC:		
R R	PANEL	SERVICE	IDENT.	LOCATION
R R R R	21VU 21VU 21VU 132VU	ADS/ADC & ALPHA PROBES TEST/PWR AFS/FAC1/26VAC AFS/FAC2/26VAC ANTI-ICE/PROBES/STBY ALPHA	28FL 305CC1 305CC2 66DA	103/G7 103/G8
R R R R R R R		DLeveling and Measurement Not applicable Inspection NOTE: All inspections called for are in the text. Operators may, at their own disciplination their airworthiness authority, compliance with the Nondestruct Any work upon a system, as a damage, that entails disconned pipes, ducts, cables, electrical linkages must be followed by affected.	cretion or at thuse nondestructaive Testing Manuresult of the inction or removal	ne direction of ive techniques in ual (NTM). Inspection for the components, and mechanical

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(a) Fuselage STA638 to STA5151/FR103

	Insp Code		Phase 1	Phase 2	3	Sign	Fig.
1	2	3	 4	5	6	 7	8
1.	 	Radome	 		 	 	
Α.		Inspect the radome for erosion, delamination and core damage, both internally and externally.	x 		 	 	
2.	 	Flight Compartment Windshields and Side Windows	 		 	 	
Α.		Inspect for cracking, delamination and discoloration (indicating overheat damage) (Ref. 56-11-11, P. Block 601, Ref. 56-11-12, P. Block 601 and Ref. 56-12-11, P. Block 601). If major damage (heavy bird strike) is evident:	x 		 	 	
		(1)Inspect the windshield and side window pillars and frames internally for distortion, cracks and pulled or torn fasteners.	 	X	 	 	
3.	 	Passenger Compartment Windows	 		 	 	
Α.		Inspect for cracking, delamination and crazing.	x 		 	 	
4 -	 	Fuselage Structure, External	 		 	 	
Α.		<pre>Inspect the skin, doors, fairings and fillets for erosion, distortion, cracks and pulled or torn fasteners. If damage is found: (1)Erosion:</pre>	 X 		 	 	
		(2)Other damage, gain access and inspect internally: - All the frames, stringers,	 	 X	 	 	
		cleats, fittings and component mounts, at and in the immediate vicinity of the damage location, for distortion, cracks, pulled or torn fasteners and damaged paintwork. - All the components, pipes, ducts,	 	,	 	 	

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Item	Insp Code	Accomplished	Phase 1	Phase 2		Sign	Fig.
1		3	 4	5	6	 7	
		electrical looms, cables, pul- leys and mechanical linkages for distortion, cracks, rupture, fluid leakage and breaks.	 	 	 	 	
В.		Examine all the probes and sensors and their adjacent structure: - The pitot probes - The TAT sensors - The angle-of-attack sensors - The ice detectors (if installed). If you find organic residue in the area of a probe/sensor: - Record the area with residue. - Clean the area manually (Ref. 12-21-11, P. Block 1). - Make sure that there are no cracked, bent or damaged probes/sensors. (1) If you find organic residue in the area of: - LH pitot probe 1 (CAPT) or - LH pitot probe 3 (STBY),	X	X			
		you must do the procedures that follow before the next flight: (a)Do an inspection of the pitot probe (Ref. 34-11-15, P. Block 601) - If the pitot probe is bent, replace it (Ref. 34-11-15, P. Block 401). (b)Flush the principal total-		 X	 X	 	
		pressure-lines (Ref. 34-10-00, P. Block 301). (c)Drain and flush the standby total pressure lines (Ref. 34-10-00, P. Block 301).		 X		 	
		<pre>(2)If you find organic residue in the area of RH pitot probe 2 (F/O), you must do the procedures that follow before the next flight: (a)Do an inspection of the pitot probe (Ref. 34-11-15, P. Block 601)</pre>	 	* * * * * * * * * * * * * * * * * * *		 	
	 	 If the pitot probe is bent, replace it (Ref. 34-11-15, P. Block 401). 	 		X 	 	

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Item 	Insp Code	· · · · · · · · · · · · · · · · · · ·	Phase 1	Phase 2		Sign	Fi
1	2	3	4	5	6	 7	 8
	 	(b)Flush the principal total- pressure-lines (Ref. 34-10-00, P. Block 301).	 	X	 	 	
		<pre>(3)If you find organic residue in the area of the TAT sensor, you must do the procedures that follow before the next flight: (a)Do an inspection of the TAT sensor - If the TAT sensor is clogged,</pre>		X	 x	 	
		replace it (Ref. 34-11-18, P. Block 401). (4)If you find organic residue in the area of an AOA sensor, you must		x		 	
		do the procedures that follow before the next flight: (a)Manually turn the AOA sensor from the maximum to the minimum mechanical stop (+ 85° to - 35°) and make sure that there are no hard points. If there is a hard point or if				 	
		the AOA is bent: - Replace the related AOA sensor . For ALPHA probes (Ref. 34-11-19, P. Block 401) . For standby ALPHA probe (Ref. 22-27-39, P. Block 401).			X 	 	
С.		Examine all the antennas and the drain masts for: - Cracks or damage.	 X		 	 	
5.		Nose Landing Gear	 		1 	 	
Α.		Inspect, paying particular attention to components, pipes, electrical looms and control cables and pulleys (Ref. 32-20-00, P. Block 601).	X		 	 	

EFFECTIVITY: ALL

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(b)Wings STAO/RIB1 to STA1868/RIB31

Item	Insp Code	Inspection Tasks to be Accomplished	Phase	Phase 2		Sign	Fig
1	2	3	4	5		 7	 8
1.		Leading Edges, Slats, Krueger and slot Flaps		 	 	 	
A.		<pre>Inspect for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core da- mage. If damage found: (1) Erosion:</pre>	X				
		<pre>(2)Other damage: - Inspect Krueger flap, movable vane and folding fairing inter- nally for distortion, cracks, pulled or torn fasteners and damaged paintwork.</pre>		X			
		 Inspect Krueger and slot flaps actuator mountings and linkages for distortion and cracks. 		X	 	 	
		 Inspect leading edge section internally, at and in immediate vicinity of damage, for distor- tion, cracks, pulled or torn 		X		 	
		 fasteners and damaged paintwork. Inspect ducting and its mountings for distortion, cracks and rupture. 		X	 	 	
		 Inspect slat section jack and track attachments for distor- tion, cracks, pulled or torn fasteners and damaged paintwork. 		X	 	 	
		 Inspect slat jack and track ribs for distortion and cracks. 		X	 	 	
		 Inspect slat tracks for brinel- ling on roller tracks. 	 	X	 	 	
		 Inspect slat transmission system for signs of shock loading. If damage found: 		X 	 	 	
		(a) Complete system must be re- garded as suspect and the entire system, screwjacks, shafts, bearings and gear- boxes subjected to the manu-			X 	 	

EFFECTIVITY: ALL

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Item	Insp Code		Phase 1			Insp Sign	
1	2	3		5	6	 7	 8
 		dure.			 	 	
2.		Main Structure	 		 	 	
A.		Inspect for erosion and scoring.	x		 	 	
3	 	Trailing Edge False Work, Flaps, Ailerons, Spoilers and Speedbrakes	 		 	 	
A. 	 	Inspect externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage. If damage found:	X		 	 	
	 	(1) Erosion:No further inspection necessary	 		 	 	
 	 	 (2) Other damage: Inspect falsework internally, at and in the immediate vicinity of damage, for distortion, cracks, pulled or torn faste- 	 	X	 	 	
 	 	 ners and damaged paintwork. Inspect flap carriages, fairings and tracks for distortion, cracks and brinelling of tracks. 	 	X	 	 	
 	 	- Inspect flap transmission system for signs of shock loading. If damage found: (a) Complete system must be regarded as suspect and entire system, screwjacks, shafts, bearings and gearboxes subjected to the manufacturer's overhaul		X	 x 	 	
 	 	procedure.Inspect aileron actuator and hinge fittings for distortion and cracks.	 	X	 	 	
 	 	 Inspect spoiler and speed brake actuator and hinge fittings for distortion and cracks. 		X	 	 	
 4.		Wing Tip Fairings and Navigation	 		 	 	

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Item	Insp Code	•	Phase 1	Phase 2			Ref. Fig.
	 2 	3	 4 	 5 	 6 	 7 	 8
	 	Lights	 	 	 	 	
A.		Inspect for erosion, distortion, cracks, pulled or torn fasteners and breakage.	X 	 	 	 	
5.	 	Main Landing Gears and Doors	 	 		 	
A.		Inspect, paying particular attention to components, pipes, cables, pulleys and electrical looms mounted on the gears (Ref. 32-10-00, P. Block 601).	x 	 		 	

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(c)Engine nacelles and pylons

Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp Sign	
1		3	 4			 7	 8
1. A.	 	Nacelles Inspect nacelle externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage. If damage found: (1) Erosion:	X X 		 	 	
		 No further inspection necessary (2) Other damage: Open nose cowl inspection doors and inspect internally for distortion, cracks, pulled or torn fasteners and ruptured de-icing supply pipes and starter pneudated 	 	 X 		 	
		 matic ducts. Open all cowl doors and inspect nose cowl attachment to fan case for distortion, cracks and pulled or torn fasteners. 	 	 X 		 	
		 Inspect all cowl hinge fittings and cowl internal structure for distortion, cracks, pulled or torn fasteners, honeycomb dela- 	 	X 		 	
		mination and core damage.Inspect all cowl latches for damage and make certain operation is satisfactory.	 	 X 		 	
В.		Inspect engine (Ref. 05-51-19, P. Block 1)	x 			 	
2. A.		<pre>Pylons Inspect pylons externally for ero- sion, distortion, cracks, pulled or torn fasteners and damaged paintwork. If damage found: (1) Erosion:</pre>	 x 			 	
		 No further inspection necessary (2) Other damage: Inspect pylon internally for distortion, cracks, pulled or torn fasteners and damaged 		 x 		 	
	 	paintwork.Inspect components, pipes,ducts, electrical looms,	 	 X 	 	 	

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Item	Insp Code	Inspection Tasks to be Accomplished	1	2	Phase 3	Sign	Fig.	
1		3	- 4	 5	 6	 7	 8	
		control cables, pulleys and their mounts for distortion,	- 	 	 	 	 	
 		cracks, rupture, breaks and fluid leakage.		 	 	 	 	

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(d)Stabilizers

Item	Insp Code		Phase	Phase 2		Insp Sign	
1	2	3	4	5	6	 7	8
1.	 	<u>Vertical Stabilizer</u>	 - 	 	 	 	
Α.		<pre>Inspect dorsal fin, vertical stabili- zer leading edge and tip fairing externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage. If damage found: (1) Erosion:</pre>		 X			
В.	 	Inspect vertical stabilizer spar box for erosion and scoring.	X X		 	 	
C.		<pre>Inspect rudder and trailing edge access doors externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage. If damage found: (1) Erosion:</pre>			 	 	
	 	(2) Other damage: Inspect rudder hinge and actuator attachment fittings for distortion, cracks and damaged paintwork.		 X 	 	 	
2.	 	<u>Horizontal Stabilizer</u>	 	 	1 	 	!
Α.	 	Inspect leading edge and tip fairing externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage.	X		 	 	
		If damage found:			ı 		

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Item	Insp Code		Phase 1	Phase 2		Insp Sign	
1 1	2	3	4	5	6	7	8
 	 	(1) Erosion: - No further inspection necessary (2) Other damage: - Inspect internally for distor- tion, cracks, pulled or torn fasteners and damaged paint- work.		 X 	 	 	
 B. 	 	 Inspect horizontal stabilizer spar box for erosion and scoring.	 x 	 	 	 	
C.		Inspect elevators and trailing edge access doors externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage. If damage found: (1) Erosion: - No further inspection necessary (2) Other damage:	 			 	
	 	<pre> (2) Other damage: - Inspect elevator hinge and actuator fittings for distor- tion, cracks and damaged paint- work.</pre>	 	 X 	 	 	

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C. Test Set-Up

- (1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
- (2)Close up all panels and doors opened during inspection.
- (3) Remove access platforms.
- (4)Remove warning notices from flight compartment.
- (5)Close MLG main doors (Ref. 32-12-11, P. Block 301).
- (6)Close NLG doors (Ref. 32-22-12, P. Block 301).
- (7)Remove safety collars from spoiler actuators.

D. Test

	Item	Insp Code		Phase	Phase			Ref. Fig.
 	1	2 2	3	4	5	6		8
 	1.		NOTE: The following tests are only necessary if work upon the system has been carried out as a result of the inspection for damage or if structure adjacent to a flight control surface was found damaged. Operate ailerons 3 times and ensure that travel is full and free of fou-		х			
		 	ling or binding (Ref. 27-11-00, P. Block 501).				 	
	2.		Operate rudder 3 times and ensure that travel is full and free of fouling or binding (Ref. 27-21-00, P. Block 501).		X		 	
	3.		Operate elevator 3 times and ensure that travel is full and free of fouling or binding (Ref. 27-31-00, P. Block 501).		X		 	
	4.		Operate trimmable horizontal stabilizer 3 times and ensure that travel is full and free of fouling or binding (Ref. 27-41-00, P. Block 501).		X		 	
	5.		Operate spoilers and speedbrakes 3 times and ensure that travel is full and free of fouling or binding (Ref. 27-60-00, P. Block 301).		X		 	
i I	6.	 	Operate flaps, slats and krueger flaps 3 times and ensure that travel		X			

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Item	Insp Code 	·	Phase 1 	Phase 2 		Insp Sign 	
1	 2 	3	4	5	 6	 7 	8
		is full and free of fouling or binding (Ref. 27-50-00, P. Block 301 and 27-81-00, P. Block 501). NOTE: The following test is only necessary if work upon the system has been carried out as a result of the inspection for damage or if structure adjacent to a door was found damaged.				 	
7.		Carry out 3 retractions of under- carriage and ensure that travel of gear and doors is smooth and free of fouling or binding (Ref. 32-31-00, P. Block 501). NOTE: If damage is limited to gear main doors only, or fuselage structure adjacent to main doors, then test main doors only using the doors ground opening/closing circuit (Ref. 32-12-11 and 32-22-12, P. Block 301).		X			

२ २ २	E. Close-Up (1)Remove safety clips and tags and close the following circuit breakers: (a)For CAPT pitot probe 41DA:							
र २ २	PANEL	SERVICE	IDENT.					
2	22VU	PROBE HEAT/CAPT/PITOT/SUPPLY	5 D A	207/C24				
2	((b)For F/O pitot probe 40DA:						
2	PANEL	SERVICE	IDENT.	LOCATION				
2	132VU	ANTI-ICE/PROBES/F/O/PITOT	9DA	322/N67				
2	((c)For standby pitot probe 42DA:						
2	PANEL	SERVICE	IDENT.	LOCATION				
₹ ?	22VU	PROBE HEAT/STBY PITOT SUPPLY	55DA	207/c28				

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	SERVICE			LOCATION					
	MIN EQPT BAY SUPPLY/ADS/ADC ANTI-ICE/PROBES/CAPT TAT	1/115VAC	9FL1 2DA	208/B19 325/K69					
(e)For total air temperature p								
	SERVICE		IDENT.	LOCATION					
21VU	ADS/ADC2/115VAC ANTI-ICE/PROBES/F/O/TAT			105/E10					
	f)For ALPHA probe 48FL1:								
PANEL	SERVICE		IDENT.	LOCATION					
21VU	ADS/ADC & ALPHA PROBES TEST								
	PROBE HEAT/CAPT/ALPHA SUPPL	.Υ	1DA	105/E07 207/C25					
22VU			8FL1	208/B20					
	g)For ALPHA probe 48FL2:								
PANEL	SERVICE			LOCATION					
	ADS/ADC & ALPHA PROBES TEST	/PWR	28FL	105/E07 105/E09					
21VU 132VU			8FL2 51DA	105/E09 323/M71					
	h)For standby ALPHA probe 270	:C:		0-0,					
PANEL	SERVICE			LOCATION					
	ADS/ADC & ALPHA PROBES TEST	/PWR	28FL	105/E07					
21VU 21VU	AFS/FAC1/26VAC AFS/FAC2/26VAC		305CC1 305CC2	103/G7 103/G8					
132VU	ANTI-ICE/PROBES/STBY ALPHA		66DA	325/K68					
(2)	(2)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment, all access equipment and miscellaneous items.								
2. <u>Insp</u>	ection of Airframe After Hail	Strike on Groun	<u>d</u>						
A. Eq	uipment and Materials								
ITEM	DES	IGNATION							
(1)	Acc 55	ess Platform 1.5	m to 16	.9 m (5 ft. to					
(2)	War	ning N otices							
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ITEM	DESIGNATION
(3)98A27608013000	Safety Collar - Spoiler/Actuator Piston
(4)98A27608014001	Safety Collar - Airbrake Actuator Piston
Referenced Procedures	
- 05-51-19, P. Block 1	Inspection after Engine Bird Strike or
	Slush Ingestion
- 24-41-00, P. Block 301	AC External Power Control
- 27-11-00, P. Block 501	Mechanical and Electrical Control (Aileron)
- 27-21-00, P. Block 501	Mechanical Control (Rudder)
- 27-31-00, P. Block 501	Mechanical Control and Pitch Uncoupling
- 27-41-00, P. Block 501	Mechanical Control (THS)
- 27-50-00, P. Block 301	Flaps
- 27-51-00, P. Block 501	Mechanical and Electrical Control (Flaps)
- 27-60-00, P. Block 301	Spoilers and Speedbrakes
- 27-81-00, P. Block 501	Mechanical and Electrical Controls (Slats)
- 29-10-00, P. Block 301	Main (Hydraulic Power)
- 56-11-11, P. Block 601	Windshield Panels
- 56-11-12, P. Block 601	Fixed Side Window Panels
- 56-12-11, P. Block 601	Sliding Side Window Panels
- 71-04-00, P. Block 101	Trouble Shooting Manual (TSM)

B. Procedure

- (1) Job Set-Up
 - (a) Make certain that landing gear ground safeties are fitted correctly.
 - (b) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
 - (c)Pressurize hydraulic systems (Ref. 29-10-00, P. Block 301).
 - (d)Extend flaps and slats (Ref. 27-50-00, P. Block 301).
 - (e)Extend spoilers and speedbrakes (Ref. 27-60-00, P. Block 301).
 - (f) Fit spoiler and speedbrake actuator safety collars P/N 98A27608013000 and P/N 98A27608014001.
 - (g)De-energize the aircraft electrical network.
 - (h)Depressurize hydraulic systems.
 - (j)Place warning notices in flight compartment prohibiting operation of all aircraft systems.
 - (k)Position access platforms.
- (2)Leveling and Measurement

Not applicable

(3)Inspection

NOTE : All inspections called for are visual unless otherwise specified in the text.

Operators may, at their own discretion or at the direction of their airworthiness authority, use nondestructive techniques in compliance with the Nondestructive Testing Manual (NTM).

Any work upon a system, as a result of the inspection for damage, that entails disconnection or removal of components, pipes, ducts, cables, electrical connectors and mechanical linkages must be followed by a functional test of the system affected.

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(a) Fuselage STA638 to STA5151/FR103

Item	Insp Code	•	Phase 1	Phase 2		Insp Sign	
1		3	 4	5	6	 7	 8
1.	 	Radome			 	 	
Α.		Inspect radome for erosion, delamination and core damage, both internally and externally.	X 		 	 	
2.	 	Flight Compartment Windshields and Side Windows	 		 	 	
Α.		<pre>Inspect for cracking, delamination and discoloration (indicating over- heat damage) (Ref. 56-11-11, 56-11-12 and 56-12-11, P. Block 601). If major damage (heavy hail strike) evident: (1)Inspect windshield and side window pillars and frames internally for distortion, cracks and pulled or torn fasteners.</pre>	<u> </u>	 X			
3.	 	Passenger Compartment Windows	 		 	 	
Α.		Inspect for cracking, delamination, and crazing.	 X 	 	 	 	
4.	 	Fuselage Structure, External	 		 	 	
Α.		Inspect skin, doors, fairings and fillets for erosion, distortion, cracks and pulled or torn fasteners. If damage found:	 X 		 	 	
		(1)Erosion:No further inspection necessary.	 		 	 	
		 (2)Other damage, gain access and inspect internally: All frames, stringers, cleats, fittings and component mounts, at and in the immediate vicinity of the damage location, for distortion, cracks, pulled or torn fasteners and damaged paintwork. 	 	 X 			
	 	- All components, pipes, ducts,	 	 X	 	 	

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_								
	Item	Insp Code	·	Phase 1	Phase 2		Sign	Fig.
	1	2	3	 4	 5	 6 	7	 8
 			electrical looms, cables, pulleys and mechanical linkages for distortion, cracks, rupture, fluid leakage and breaks.	 		 	 	
 	В.		Examine all the antennas, the pitot probe and the angle-of-attack sensor for: - Cracks and damage.	 x 	 	 		

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(b)Wings STAO/RIB1 to STA1868/RIB31

Item	Insp Code		Phase 1	Phase 2		Insp Sign	
1		3	 4	5	6	 7	 8
1.	 	Leading Edges, Slats, Krueger and slot Flaps	 	 	 	 	
A.		Inspect for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage If damage found: (1) Erosion: - No further inspection necessary	X 				
 		 (2)Other damage: Inspect Krueger flap, movable vane and folding fairing internally for distortion, cracks, pulled or torn fasteners and damaged paintwork. 					
	 	 Inspect Krueger and slot flaps actuator mountings and linkages for distortion and cracks. 	 	X 	 	 	
 		 Inspect leading and trailing edges internally, at and in immediate vicinity of damage, for distortion, cracks, pulled or torn fasteners and damaged paintwork. 		X 			
 	 	 Inspect ducting and its moun- tings for distortion, cracks and rupture. 		X 		 	
	 	 Inspect slat section for distor- tion, cracks, pulled or torn fasteners and damaged paintwork. 	 	X 	 	 	
2.	 	Main Structure	 			 	
A.	 	Inspect for erosion and scoring.	X			 	
3.	 	Leading and Trailing Edges False Work, Flaps, Ailerons, spoilers and Speedbrakes	 		 	 	
A.	 	Inspect externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage.	x 			 	

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Item	Insp Code	·	Phase 1	Phase 2		Insp Sign	
1	2	3	 4		6	 7	
		If damage found:					
		(1) Erosion:No further inspection necessary	 	 	 	 	
		<pre>(2) Other damage: - Inspect falsework internally, at and in the immediate vici- nity of damage, for distortion, cracks, pulled or torn faste- ners and damaged paintwork.</pre>	 	 X 	 		
4.		Wing Tip Fairings and Navigation Lights	 	 	 	 	
Α.		Inspect for erosion, distortion, cracks, pulled or torn fasteners and breakage.	 X 	 	 	 	

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(c)Engine nacelles and pylons

Item	Insp Code	·	Phase	Phase 2		Insp Sign	
1	 2	3	 4	 5	 6	 7	 8
1. A.		Nacelles Inspect nacelle externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage. If damage found: (1) Erosion:	x	 	 	 	 ·
		 (2) Other damage: Open nose cowl inspection doors and inspect internally for distortion, cracks, pulled or torn fasteners and ruptured de-icing supply pipes and starter pneu- 		 X 			
	 	matic ducts. - Open all cowl doors and inspect nose cowl attachment to fan case for distortion, cracks and pulled or torn fasteners.		 X 	 	 	
	 	 Inspect all cowl hinge fittings and cowl internal structure for distortion, cracks, pulled or torn fasteners, honeycomb dela- mination and core damage. 		X 	 	 	
В.	 	Inspect engine (Ref. 05-51-19, P. Block 1).	X	 	 	 	
2. A.		Pylons Inspect pylons externally for erosion, distortion, cracks, pulled or torn fasteners and damaged paintwork. If damage found: (1) Erosion: - No further inspection necessary	X		 		
	 	(2) Other damage: - Inspect pylon internally for distortion, cracks, pulled or torn fasteners and damaged		 X 	 	 	
	 	paintwork. Inspect components, pipes, ducts, electrical looms, control cables, pulleys and their mounts for distortion, cracks, rupture, breaks and		 X 	 	 	

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	Item	Insp Code	Accomplished	Phase 1 	2	3	Sign	Fig.	
	1	2	3	4 	5	6	7	8	İ
								: :	:

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(d)Stabilizers

Item	Insp Code		Phase 1	Phase 2		Insp Sign	
1	2	3	4	5	 6	 7	 8
1.	 	<u>Vertical Stabilizer</u>			 	 	
Α.		<pre>Inspect dorsal fin, vertical stabili- zer, leading and trailing edges and tip fairing externally for for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage. If damage found: (1) Erosion:</pre>		X			
В.		Inspect vertical stabilizer spar box for erosion and scoring.	Х			 	
C.		<pre>Inspect rudder and trailing edge access doors externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage. If damage found: (1) Erosion:</pre>				 	
		(2) Other damage: Inspect rudder hinge and actuator attachment fittings for distortion, cracks and damaged paintwork.		X		 	
2.	! ! !	Horizontal Stabilizer			 	 	1
Α.		Inspect leading and trailing edges and tip fairing externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage. If damage found:	X			 	

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Item	Insp Code	· · · · · · · · · · · · · · · · · · ·	Phase 1	Phase 2			Ref. Fig.
1 1	2	3		5	6	7	8
 	 	 (1) Erosion: No further inspection necessary (2) Other damage: Inspect internally for distortion, cracks, pulled or torn fasteners and damaged paintwork. 	 	 X 	 	 	
B.		Inspect horizontal stabilizer torque box for erosion and scoring.	x 	 		 	
C.		<pre>Inspect elevators and trailing edge access doors externally for erosion, distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage. If damage found: (1) Erosion:</pre>	 	 		 	
 	 	 Inspect elevator hinge and actuator fittings for distor- tion, cracks and damaged paint- work. 	 	x 		 	

C. Test Set-Up

- (1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
- (2)Close up all panels and doors opened during inspection.
- (3)Remove access platforms.
- (4)Remove warning notices from flight compartment.
- (5) Remove safety collars from spoiler actuators.

D. Test

-	Item	Insp Code	·	1	2	Phase 3 	Sign	Fig.	
	1	 2 	3	 4	 5	6 6	 7	8	:
		 	NOTE: The following tests are only necessary if work upon the system has been carried out	 		 			
i		 	as a result of the inspection for damage or if structure	 	 	 			İ

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Item 	Insp Code		Phase 1	Phase		Insp Sign	
 1	 2	3	 4	5	6	 7	 8
	 	adjacent to a flight control surface was found damaged. Operate ailerons 3 times and ensure that travel is full and free of fouling or binding (Ref. 27-11-00, P. Block 501).	 	X X		 	
 2. 	 	Operate rudder 3 times and ensure that travel is full and free of fouling or binding (Ref. 27-21-00, P. Block 501).	 	 X 		 	
 3. 	 	Operate elevator 3 times and ensure that travel is full and free of fouling or binding (Ref. 27-31-00, P. Block 501).	 	 X 		 	
 4. 		Operate trimmable horizontal stabilizer 3 times and ensure that travel is full and free of fouling or binding (Ref. 27-41-00, P. Block 501).	 	 X 		 	
 5. 		Operate spoilers and speedbrakes 3 times and ensure that travel is full and free of fouling or binding (Ref. 27-60-00, P. Block 301).	 	 X 		 	
 6. 		Operate flaps, slats and krueger flaps 3 times and ensure that travel is full and free of fouling or binding (Ref. 27-50-00, P. Block 301 and 27-81-00, P. Block 501). NOTE: The following test is only necessary if work upon the system has been carried out as a result of the inspection for damage or if structure adjacent to a door was found damaged.		x			

E. Close-Up

(1)Remove all ground handling and maintenance equipment, standard and special tools, ground power and replenishing equipment, all access

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equipment and miscellaneous items.

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INSPECTION AFTER A TIRE BURST OR TREAD THROW OR WHEEL FAILURE OR FLAT

WARNING: IF THE TIRE BURST IS CAUSED AS A RESULT OF BRAKE SEIZURE, ALLOW BRAKE UNIT AND WHEEL TO COOL BEFORE APPROACHING LANDING GEAR. DO NOT APPLY LIQUID OR GASEOUS FIRE EXTINGUISHANT DIRECTLY ONTO A HOT WHEEL OR BRAKE UNIT, AN EXPLOSION COULD RESULT.

1. Equipment and Materials

ITEM	DESIGNATION
Α.	Access Platforms 3.41 m (11ft. 2in.)
В.	Warning Notices
C.	Borescope
Referenced Procedures	
- 05-51-16, P. Block 1	<pre>Inspection after Brake Emergency Application or Overheat</pre>
- 12-37-32, P. Block 1	Wheel Replacement
- 24-41-00, P. Block 301	AC External Power Control
- 27-11-00, P. Block 501	Mechanical and Electrical Control (Aileron)
- 27-50-00, P. Block 301	Flaps
- 27-50-21, P. Block 401	Flap Track Fairings
- 27-54-00, P. Block 501	Hydraulic Actuation and Power Transmission (Flaps)
- 27-60-00, P. Block 301	Spoilers and Speedbrakes
- 27-61-00, P. Block 501	Electrical and Mechanical Control (Spoilers and Speedbrakes)
- 28-10-00, P. Block 301	Storage
- 28-25-00, P. Block 301	Refuel/Defuel System
- 29-10-00, P. Block 301	Main Hydraulic Power
- 32-10-00, P. Block 601	Main Gear and Doors
- 32-12-11, P. Block 301	<pre>Main Gear Main Door - (Ground Door(s) Opening)</pre>
- 32-20-00, P. Block 601	Nose Gear and Doors
- 32-22-11, P. Block 301	Nose Gear Main Door - (Ground Door(s) Opening)
- 32-31-00, P. Block 501	Extension and Retraction
- 32-41-00, P. Block 601	Wheels
- 32-42-00, P. Block 501	Normal Breaking
- 32-42-57, P. Block 401	Main Gear Tachometer (21GG to 28GG)
- 72-00-00, P. Block 601	Engine - General
- 78-31-00, P. Block 501	Thrust Reverser System Control
- ASM 32-42-00, SCHEM03	
- TSM 05-50-00, P. Block 101	Unscheduled Maintenance Check - Fault Isolation Procedures

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2. Procedure

- A. Job Set-up
 - (1) Make certain that landing gear ground safeties including wheel chocks are in position.
 - (2)Open main landing gear main doors (Ref. 32-12-11, P. Block 301).
 - (3)Open nose landing gear doors (Ref. 32-22-11, P. Block 301).
 - (4)Extend flaps and slats (Ref. 27-50-00, P. Block 301).
 - (5) Extend speedbrakes (Ref. 27-60-00, P. Block 301).
 - (6)Depressurize Green, Blue and Yellow hydraulic systems (Ref. 29-10-00, P. Block 301).
 - (7)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
 - (8)Place warning notices in flight compartment prohibiting operation of all systems.
 - (9)Position access platforms.
- B. Leveling and Measurement Not applicable.
- C. Inspection

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If there is a tire failure in service, the operator must record the applicable data on the tire-failure reporting sheet and send it to Airbus (Ref. Fig. 001).

NOTES : All inspections called for are visual unless otherwise specified in text.

Operators may, at their own discretion or at the direction of their airworthiness authority, use non-destructive testing techniques in compliance with the aircraft Non-Destructive Testing Manual (NTM).

If tire burst(s) occurs when gear is fully retracted then inspection required is limited to the gear well, doors and the gear assemblies.

Any work upon a system, as a result of the inspection for damage, that entails disconnection or removal of components, pipes, ducts, cables, electrical connectors and mechanical linkages must be followed by a functional test of the system affected.

- (1)General wheel inspection
 - (a)After a tire burst, replace the damaged wheel and deflate and replace the adjacent wheel (on the same axle) (Ref. 12-37-32, P. Block 1).
 - (b)After a tread throw, measure the pressure of the tire (Ref. 32-41-00, P. Block 601).
 - <u>NOTE</u>: After a tread throw, it is possible that the tire will stay inflated. If the tire is inflated when the aircraft is parked, it is necessary to let the tire become cool for three hours before you measure the pressure.
 - 1 If the measured pressure is more than 80% of the nominal pressure, (Refer to the pressure tables (Ref. 32-41-00, P. Block 601)), deflate, then replace the damaged wheel (Ref. 12-37-32, P. Block 1).

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- 2 If the measured pressure is less than or equal to 80% of the nominal pressure (Refer to the pressure tables (Ref. 32-41-00, P. Block 601)), deflate, then replace the damaged wheel and the adjacent wheel (on the same axle) (Ref. 12-37-32, P. Block 1).
 (c)After a flat spot on MLG Wheel tire
 - 1 Do the inspection/check of the wheels and tires for damage
 (Ref. 32-41-00, P. Block 601).
 - 2 Do the functional tests of normal braking (Ref. 32-42-00, P. Block 501).
 - Make sure that the operation of the braking system is correct, (Ref. 32-42-00, P. Block 501).
- If the test is not OK, (Refer to TSM 05-50-00, P. Block 101). (d)Test Confirmation
 - Do the functional test of the tachometer of the damaged wheel to make sure that there is no wiring cross connection (Ref. 32-42-00, P. Block 501).

EFFECTIVITY: ALL

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TIRE FAILURE REPORTING SHFFT

To be returned to Airbus Customer Services through "TechRequest" on Airbus World, selecting Engineering Support domain and ATA 32-41

In order to help in our investigation, thank you to provide Airbus with the following information.

			ion, manic you						
Description									
Customer		A/C Type		MSN			Registration		
Date of Even	<u>t</u>			Place of	Event				
							Taxi-Out		
FLIGI	HT PHASE \	WHEN THI	E EVENT OCC	URRED			Take-Off		
(please tick the co			sponding phase)	1			Landing		
							Taxi-in		
			TIRES INF	ORMATIC	<u>DN</u>				
REQUIRE	D INFORMAT	ΓΙΟΝ	FAILE) TIRE		MATE TIRE		TIRE	
Tire P/N									
Tire S/N									
Position on A	ircraft								
Retread Leve	H								
Retread Plan	t								
Retread date	(marked on ti	ire)							
Date of Instal	lation on aircr	aft							
Cycles Since	last Installation	on							
Cycles Since	New								
If applicable, after the ever		ssure							
Date of last p	ressure check	•							
Measured pre	essure								
Level of wear depth)	(remaining g	roove							
• Pictures		tire and as	ked to the reports		st page)			

Captain and/or Maintenance report.

Tire Failure Reporting Sheet (Sheet 1/4)
Figure 001

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	WHEELS INFORMATION	
REQUIRED INFORMATION	FAILED TIRE SIDE	MATE TIRE SIDE
Wheel P/N		
Wheel S/N		
Fuse Plug condition (melt or not)		
Recent Maintenance Activity on wheel assembly before the event		
	COMPLEMENTARY INFORMATION	1
Result of inspection as per AMM 03	5-51-15 - Inspection after tire burst o	r tread throw or wheel failure
(please annex pictures):		
Where failed tire debris were recov	ered? (Runway? Taxi-way? Other?)	

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Tire Failure Reporting Sheet (Sheet 2/4)
Figure 001

EFFECTIVITY:	ΔΙΙ	
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COMPLEMENTARY INFORMATION
ECAM or any other warning (if any)?
If applicable, any TPIS low pressure warning prior to the event?
Has under inflation of the failed tire been reported during the days prior to the event?
Miscellaneous
Evidence of Foreign Object Damage to the failed tire:
Presence of Foreign Object Debris on the runway (or taxi-way)?
Weather conditions?
Runway condition?
Number of cycles completed on the day of event:
Number of cycles completed on the day of event.
Impact on aircraft operation (delay, AOG, IFTB,)?
MMEL conditions if any?
Other?

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Tire Failure Reporting Sheet (Sheet 3/4) Figure 001

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COMPLEMENTARY INFORMATION	

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Tire Failure Reporting Sheet (Sheet 4/4)
Figure 001

EFFECTIVITY: ALL

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(2) Fuselage STA766/FR1 to STA2241/FR39

Item	Insp Code		Phase 1	Phase		Insp Sign	
1	2	3		5	6	 7	8
1.	 	 Fuselage lower surface including cargo doors	 - 	 	 	 	
Α.	 	Inspect skin panels for distortion, cracks, pulled or torn fasteners and damaged paintwork.	 x 		 	 	
	 	If damage found: (1) Remove avionics and/or forward cargo compartment floor panels and inspect frames, stringers, cleats and fittings for distortion, cracks, pulled or torn fasteners and damaged paintwork, adjacent to the damaged area.	ĺ	 X 		 	
	 	<pre>(2) Inspect components, pipes, ducts, electrical looms, con- trol cables, pulleys and their mounts for cracks, rupture, fluid leakage and condition of safetying devices.</pre>		 X 	 	 	
В.	 	In nose landing gear well, inspect structure, components, pipes, ducts, electrical looms, control cables, pulleys and their mounts for distortion, cracks, rupture, fluid leakage and condition of safetying devices.	X 		 	 	
C.	 	Inspect nose landing gear doors, their hinges and actuating cylinder attach-ments for distortion, cracks, pulled or torn fasteners and damaged paintwork.	x 		 	 	
D.	 	 Inspect nose landing gear assy, paying particular attention to components, pipes, electrical looms, control ca- bles, pulleys, linkages and their mounts (Ref. 32-20-00, P. Block 601).	 X 		 	 	

EFFECTIVITY: ALL

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(3) Fuselage STA2241/FR39 to STA3143/FR55/58

Item	Insp Code		Phase 1	Phase 2	Phase	Insp Sign	
1	 2 	 3		 5	 6	 7	 8
i.		Fuselage lower surface including cargo doors	 	 	 		
Α.	 	Inspect fuselage lower surface skin panels and ventral fairings for dis- tortion, cracks, pulled or torn fas- teners and damaged paintwork	x 	 	 	 	
	 	 If damage found:	 	 -	 -	 	 !
	 	<pre>(1) Internally inspect all frames, stringers, cleats and fittings for distortion, cracks, pulled or torn fasteners and damaged paintwork.</pre>		 X 	 	 	
	 	(2) In air conditioning compart- ment, inspect all components, pipes, ducts, electrical looms, control cables, pulleys, mounts and transmission shaft- ing for distortion, cracks, rupture, fluid leakage and condition of safetying devi- ces.		x 	 	 	
В.	 	 In main landing gear well, inspect protective panels and visible structure for distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage.	 x 	 	 	 	
	 	 If damage found: 	 	 	! 	 	!
	 	(1) Remove damaged protective panels and adjacent panels and inspect components, pipes, cables, pulleys, and transmission shafts for distortion, cracks, rupture, fluid leakage and damaged mounts.		X 	 	 	
	 	<pre>(2) Remove center beam floor panels and inspect internal structure for distortion, cracks, pulled</pre>	 	 X 	 	 	

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Item 	Insp Code	•	Phase 1	Phase		Insp Sign	
 1	 2	 3	 4	 5	 6	 7	 8
	 	or torn fasteners and damaged paintwork.	 	 	 	 	
2.	 	 Main Landing Gear, Main Doors	 	 	 	 	
Α.	 	Inspect doors, hinges, actuating cyllinder fittings, sequence valve mounts and linkage for distortion, cracks, pulled or torn fasteners and damaged paintwork.	X 		 	 	
В.	 	 Inspect actuating cylinder, sequence valve, hoses and pipes for distortion, cracks, rupture, fluid leakage and condition of safetying devices.	 x 	 	 	 	

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(4)Wings STAO/RIB1 to STA1182/RIB19

Item	Insp Code	Inspection Tasks to be Accomplished	1	2		Sign	
1	2 	3	4 	5 	6 	7 	8
1.	 	 <u>Inner_flaps</u> 	 	 	 	 	
A -	 	Inspect flaps, sliding vane and fairings for distortion, cracks, pulled or torn fasteners, honeycomb delamination and core damage.	x 	 	 	 	
	 	 If damage found:	 -	 -	 -	 	
	 	(1) Remove fairings (Ref. 27-50-21, P. Block 401) and inspect flap carriages, fairing and sliding vane attachment fittings and track for distortion, cracks, pulled or torn fasteners, and condition of safetying devices.	 	 	 	 	
2.	 	 <u>Trailing edge falsework</u> 	 	 	 	 	
A.	 	 Inspect underside of falsework for distortion, cracks, pulled or torn fasteners, honeycomb delamination or core damage and damaged paintwork.	 x 	 	 	 	
	 	If damage found:	: 	 	 	 	
	 	(1) Open access doors and inspect internal structure for distortion, cracks, pulled or torn fasteners and damaged paintwork.	 	x 	 	 	
	 	(2) Inspect components, pipes, electrical looms, control ca- bles and transmission shafts for distortion, cracks, rup- ture, fluid leakage and con- dition of safetying devices.	 	X X 	 	 	
3.	 	 <mark>All speed aileron</mark>	 	 	 	 	
Α.	 	 Inspect for distortion, cracks, pulled or torn fasteners, honeycomb delami-	 X 	 	 	 	

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	Insp Code	•	Phase 1			Insp Sign	
1	2	3	4	5	6	7	8
		 nation and core damage.					
	 	 If damage found:	 	 	 	 	
	 	 (1) Aileron hinges and actuator for distortion and cracks. 	 	 X 	 	 	
4 -	 	 <u>Leading edge, krueger flap and</u> <u>slats No. 1</u>	 	 	 	 	
Α.	 	 Inspect leading edge, flaps and slats for distortion, cracks and pulled or torn fasteners.	x 	 	 	 	
	 !	 If damage found:	 	 	 	 !	
	 	(1) Defuel wing tanks (Ref. 28-25- 00, P. Block 301) and ventilate (Ref. 28-10-00, P. Block 301).	 	 x 	 	 	
	 	(2) Enter wings and inspect front spar area for distortion, cracks and damaged sealant fillets.	 	 x 	 	 	

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(5)Main landing gear

Item	Insp Code	•	Phase 1	Phase 2			Ref. Fig.
1	 2 			 5 	 6 	 7 	 8
 1.	 	Gear assembly	 		 	 	
 	 	NOTE: If tire burst is the result of brake emergency application or seizure, inspect (05-51-16, P. Block 1).	 X 		 	 	
A. 	 	 Inspect, paying particular attention to components, pipes, hoses, electri- cal looms, control cables, pulleys, linkages and mountings (Ref. 32-10-00, P. Block 601).	 X 	 	 	 	

EFFECTIVITY: ALL

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(6)Engine nacelles and pylons

Item	Insp Code		Phase 1	Phase		Insp Sign	
1	 2 	3 		 5 	 6 	 7 	 8
1.	 	 <u>Nacelle</u> 	 	 	 	 	
Α.		Inspect nacelle externally for distor- tion, cracks, pulled or torn faste- ners, honeycomb delamination and core damage.	x 	 	 	 	
	 	 If damage found:	 	 	 	 	
	 	(1) Open cowls and inspect inter- nally for distortion, cracks, pulled or torn fasteners and damaged paintwork.	 	 X 	 	 	
	 	(2) Inspect components, ducts, cables and looms in cowls for distortion, cracks and rupture.	 	 x 	 	 	
2.	 	 <u>Pylons</u> 	 	 	 	 	
Α.	 	Inspect pylons externally for distor- tion, cracks, pulled or torn fasteners and damaged paintwork.	x 	 	 	 	
	 	If damage found: (1) Inspect structure internally for distortion, cracks, pulled or torn fasteners and damaged paintwork.	 	 x 	 		
	 	<pre>(2) Inspect components, pipes, ducts, looms, cables, pulleys and mounts for distortion, cracks, rupture and fluid leakage.</pre>	 	 x 	 		
3.	 	 <u>Engine</u> 	 	 	 	 	
Α.	•	 Inspect engine intake and fan blades for foreign object damage.	 X 	 	 	 	
В.	-	 Inspect exhaust nozzle and last stage low pressure turbine for metal deposit	 X 	 	 	 	

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	Insp Code		Phase 1	Phase 2		Insp Sign	
1	 2 	 3 	 4 	 5 	 6 	 7 	 8
		If damage found: (1) Perform a borescope inspection of first and last stages of the high pressure compressor. (Ref. 72-00-00, P. Block 601). NOTE: This is the minimum permissible inspection level.	 	 x 		 	
C.	 	If tire burst occurred during thrust reversal operation, deploy fan reverser translating cowls and inspect cascades for distortion, cracks and rupture.	 X 	 		 	

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D. Test Set-Up

- (1) Make certain that working area is clean and clear of tools, and miscellaneous items of equipment.
- (2)Close up all panels and doors opened during the inspection.
- (3) Remove access platforms.
- (4)Remove warning notices from flight compartment.
- (5)Close main gear main doors (Ref. 32-12-11, P. Block 301).
- (6)Close nose gear main doors (Ref. 32-22-11, P. Block 301).

E. Test

	Insp Code		Phase	Phase 2		Insp Sign	
1	2	 3	4	5	6	 7	8
	 	Note : The following tests are only applicable if the inspection revealed damage to a flying control surface, MLG or doors, fan reverser translation cowls or structure adjacent to them.				 	 -
Α.	 			X			
В.	 	Carry out a flaps hydraulic actuation and power transmission test (Ref. 27-54-00, P. Block 501) ensuring that travel is full and free of fouling or binding. NOTE : Check that the mechanical movement of the flaps over the full range is smooth and free.		X			
C.	 			X			
D.	 	Carry out a landing gear retraction functional test (Ref. 32-31-00, P. Block 501) ensuring that movement is smooth and free of fouling or binding.		X			
E.	 	 Carry out a functional test of thrust reverser system (Ref. 78-31-00, P. Block 501) ensuring that movement is full and free of fouling or		X			

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-									-
	Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.	l
	[[Code	Accomplished	1					ı
									ı
	1	2	3	4	5	6	7	8	l
									ı
	ĺ	ĺ	binding.	ĺ					ı

F. Close-Up

(1)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment, all access equipment and miscellaneous items.

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INSPECTION AFTER BRAKE OVERHEAT

R WARNING: BE VERY CAREFUL WHEN THERE IS A BRAKE OVERHEAT AND/OR LANDING GEAR R FIRE. THERE IS A RISK OF TIRE EXPLOSION AND/OR WHEEL RIM BURST THAT CAN R R CAUSE DEATH OR INJURY. MAKE SURE THAT YOU OBEY THE SAFETY PRECAUTIONS THAT FOLLOW. R WARNING: AFTER BRAKE OVERHEAT OR BRAKE FIRE, APPROACH THE LANDING GEAR WITH R EXTREME CAUTION AND FROM AN OBLIQUE ANGLE IN THE DIRECTION OF THE R TIRE SHOULDER. DO NOT GO INTO THE RIM HAZARD AREA AND ONLY GO IN THE R R TIRE HAZARD AREA WITH CAUTION. R IF POSSIBLE, STAY IN A VEHICLE. DO NOT APPROACH THE LANDING GEAR MORE THAN NECESSARY. R WARNING: MAKE SURE THAT THE SAFETY DEVICES AND THE WARNING NOTICES ARE IN R POSITION BEFORE YOU START A TASK ON OR NEAR: R - THE FLIGHT CONTROLS R - THE LIGHT CONTROL SURFACES R - THE LANDING GEAR AND THE RELATED DOORS R R - COMPONENTS THAT MOVE. MOVEMENT OF COMPONENTS CAN KILL OR INJURE PERSONS. R WARNING: MAKE SURE THAT THE GROUND SAFETY-LOCKS ARE CORRECTLY INSTALLED ON THE R LANDING GEAR. R R THIS PREVENTS UNWANTED MOVEMENT OF THE LANDING GEAR. WARNING : LET THE BRAKES AND THE WHEELS BECOME COOL BEFORE YOU GO NEAR THE R LANDING GEAR. DO NOT APPLY A LIQUID OR GAS FIRE EXTINGUISHER DIRECTLY R ON A HOT WHEEL OR BRAKE UNIT. THIS CAN CAUSE A TIRE EXPLOSION AND/OR R R A WHEEL RIM BURST. 1. Reason for the Job This inspection is necessary after a crew report of: R - a brake temperature of more than 800 deg. C, - wheel fuse plug(s) melt, R - a brake fire. The temperature of the brakes can be too high after: - an acceleration stop, - the emergency application of the brakes, - frequent use of the brakes, - a failure of the braking control. A high temperature of the brakes can cause: R - one or more of the fuse plugs can melt, R - damage to the tire, R - possible damage to the wheel, R - too much load on the opposite tire. This can cause damage to the tire.

2. Equipment and Materials

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ITEM	DESIGNATION
A.	Wheel Change Jack - Nose and Main Gear
	(Tires Inflated)
В.	Wheel Change Equipment - Nose and Main
	Gear (Tires Burst)
C.	Chocks - Main Gear Wheel
D.	Chocks - Nose Gear Wheel
E. Material No. 11-002	Cleaning Agents (Ref. 20-31-00)
F. Material No. 11-003	Cleaning Agents (Ref. 20-31-00)
G. Material No. 12-003	Strippers (Ref. 20-31-00)
H. Material No. 16-001 or	Structure Paints (Ref. 20-31-00)
Material No. 16-033	Structure Paints (Ref. 20-31-00)
J. Material No. 16-018 or	Structure Paints (Ref. 20-31-00)
Material No. 16-034	Structure Paints (Ref. 20-31-00)
Referenced Procedures	
- 05-51-15, P. Block 1	Inspection after a Tire Burst or Tread Throw
- 12-37-32, P. Block 1	Wheel Replacement
- 32-11-14, P. Block 401	Beam Assy - Bogie
- 32-41-00, P. Block 601	Wheels
- 3 2-42-00, P. Block 501	Normal Braking
- 32-42-27, P. Block 401	Brake Unit
- 32-42-27, P. Block 601	Brake Unit
- 32-43-00, P. Block 501	Alternate Braking with Anti skid
3. <u>Procedure</u>	
CAN CHANGE INTO	DER EXTINGUISHANTS OR DRY CHEMICALS. THE DEPOSITS O SOLID DEPOSITS AND PREVENT SATISFACTORY THE HEAT. THIS CAN CAUSE PERMANENT STRUCTURAL
YOU MUST NOT AP	PPLY THE EXTINGUISHANT (WATER OR WATER MIST) E CARBON HEAT PACK OF THE BRAKE. THIS CAN CAUSE
fire.	se brake temperature after brake overheat without
landing gear str	
technique.	ature from the cockpit or use a remote measuremen
The real temperature	of the brakes can be much higher than the
temperature shown on	the ECAM. inflated, do not go near the area around the

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Approach the landing gear with extreme caution and from an oblique angle in the direction of the tire shoulder. Do not go into the rim hazard area and only go in the tire hazard area with caution. (Ref. Fig. 001)

Do not approach more than necessary. If possible, stay in a vehicle. (c)Look at the condition of the tires.

If the tires are still inflated (fuse plugs not melted), there is a risk of tire explosion and rim burst.

Do not use cooling fans because they can prevent operation of the fuse plugs.

- (d)Use water mist to decrease the temperature of the complete wheel and brake assembly.
 - Use a technique that prevents sudden cooling. Sudden cooling can cause wheel cracks or rim burst.

Do not apply water, foam or CO2. These cooling agents (and specially CO2, which has a very strong cooling effect) can cause thermal shocks and burst of hot parts.

- (2)Instruction to extinguish a landing gear fire.
 - (a) Immediately stop the fire.

Approach the landing gear with extreme caution and from an oblique angle in the direction of the tire shoulder. Do not go into the rim hazard area and only go in the fire hazard area with caution. (Ref. Fig. 001).

Do not approach more than necessary. If possible, stay in a vehicle. (b)Use large amounts of water, water mist; if the fuel tanks are at risk, use foam.

Use a thechnique that prevents sudden cooling. Sudden cooling can cause wheel cracks or rim burst.

Do not use fans or blowers.

- B. Aircraft Configuration
 - (1)Do not apply the parking brake.
 - (2)Put a WARNING NOTICE(S) in the cockpit to tell persons not to operate the landing gear control lever.
 - (3)Put the CHOCK WHEEL(S) in position when there is no risk of tire Burst.

(Ref. Fig. 001)

C. Inspection

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	Item		Inspection Tasks to be Accomplished	Phase 1			Insp Sign	
	1	2	 3	4	5	6	 7	8
	1.		<u>Inspection of the</u> <u>Aircraft</u>	 	 	 	 	
	A .		 In case of tire burst: - do the inspection of the aircraft after a	x 	 			i i

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Item	Insp Code	Inspection Tasks to be Accomplished	Phase	Phase 2	Phase	Insp Sign	Ref. Fig.
1	2	 3	4	 5	 6	7	8
		Tire Burst or Tread Throw (Ref. 05-51-15, P. Block 1).	 			 	
2.	 	<u>Inspection of the Wheels</u> and Brakes		 	 		
		1		ļ			
Α.	 	Inspection after 183 deg.C wheel fuse plug(s) melt		 			
	 	(1) Remove corresponding wheel and adjacent wheel for overhaul (Ref. 12-37-32, P. Block 1)		 	 		
	 	(Refer to manufactu- rer's instructions for overhaul proce-		 -	 		
	 	dure). (2) Examine brake unit for damage or distor-		 	 		
	 	tion. (Ref. 32-42-27, P. Block 601)		 	 		
		(a) Make certain that there is no		 	 		
	 	hydraulic fluid leakage at the piston,		 	 		
		liners, supply lines, self		 	 		
		blanking unions and bleed screws.		 	 		
	 	(b) Clean piston 		 	 		
		certain it is in correct condition		 	 		
	 	<pre>(no separation, no blisters). (c) Make certain that</pre>	 	 	 		
	<u> </u> 	heat pack is serviceable:		 	 		
		If damage is found: - Remove damaged brake		 	 		

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	Item 	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase	Insp Sign	R ef. Fig.
	1	2	3	4	5	6	 7	 8
 	B.		unit for overhaul (Ref. 32-42-27, P. Block 401) (Refer to manufactu- rer's instructions for overhaul procedure). Inspection after 300 deg.C wheel fuse plug(s) melt or a brake temperature of more than 800 deg.C				 	
			(1) Remove corresponding wheel for overhaul (Ref. 12-37-32, P. Block 1) (Refer to manufacturer's instructions for overhaul procedure). NOTE :If fuse plug is melted, also remove the					
 	 		adjacent wheel for overhaul. (2) Remove brake for overhaul (Ref. 32-42-27, P. Block 401) (Refer to manufactu- rer's instructions for overhaul proce-			 	 	
	 		dure). (3) Remove protective sleeve/brake unit spacer (Ref. 32-42-27,	x				
	 		P. Block 401). (4) Clean protective sleeve, brake unit spacer and axle with Material No. 11-002.	X		 	 	
 	 		(5) Inspect brake unit spacer internally and externally for discoloration, burned			 	 	

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Item 	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3	Insp Sign	Ref. Fig.
	 2	 3	4	5	6	 7	 8
 	 	paint and melted cadmium plating evidenced by presence of shiny				 	
 	 	particles). (6) Inspect axle protec- tive sleeve external-! ly for absence of deformation, cracks, scratches or plating discrepancies (peeling, chrome	X			 	
 	 	flaking) (7) Inspect axle protec- tive sleeve internal- ly for scratches,	X			 	
	 	discoloration, burnt paint, blistering and evidence of melt- ted cadmium plating (minute drops, pimpled appearance) showing an overheated condition. If any of the above damage is found: (a) Replace the protective sleeve		X		 	
 	 	(8) Inspect axle externally for traces of impact, scratches or metal pickups and discoloration.	X			 	
 	 	According to the results, proceed as follows: (a) Light discolora- tion				 	
 	 	remove discolo- ration and aluminum paint topcoat with Material No. 11-003 and inspect				 	

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Item	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3	Insp Sign	Ref.
1	 2	3	4	 5	 6	 7	 8
 	 	green primer				 	
		for discolora-					
		tion. (If none					
		present: axle					
		is serviceable				<u> </u>	
		providing it					
		passes the					
		internal			1	 	
	 	inspection] I	1	 	
	 	para. (9)).		 		 	<u> </u>
	 	If still] 	[[
		present proceed to para. (8)(b)		 	<u> </u>	 	
		(b) Heavy discolo-		 X	<u> </u>	! 	
		ration or paint		^	 	! 	!
	' ' 	missing:		! 		! 	!
	i i	- strip paint and		! 	!	' 	!
	i i	primer with					
	i i	Material				i İ	İ
İ	i i	No. 12-001 and					
ĺ		inspect cadmium					
		plating for					
		melting (shiny					
		particles,					
		pimpled appea-				<u> </u>	
		rance or areas					
		of bared metal)					
		using a X20		 		 -	
	 	magnifying] 	[[
		glass.		 		! 	
ĺ		If damage found:					
		Replace the bogie			X		
		beam (AMM 32-11-14,					
		P. Block 401).					
		<u>NOTE</u> : Bared metal				<u> </u>	
		not accompa-					
		nied by adja-			 	 -	 -
		cent paint]] 	 -	
		discoloration]] 	 	
		indicates scuffing]] 	 	l I
		damage. In		 	l 	! 	I
	ı l	this case] 	! 	I
		axle is		 	! 	! 	!
	. ! 	serviceable		' 		i İ	i I

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Item 	Insp Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3	Insp Sign	R ef. Fig.
1		3	4	5	6	 7	 8
 	 	providing it passes the internal inspection				 	
 	 	para. (9). (9) Inspect axle inter- nally for traces of overheating this inspection is to determine the temperature reached and concentrated inside the axle and therefore the possibility of hydrogen embrittlement caused by melting and diffusion of					
 	 	the cadmium plating. The embrittlement condition is to be checked in examining: (a) The change in coloration of the paint inside the axle (Polyure- thane primer paint): - if the colora-		X			
 	 	tion observed inside the axle belongs to range 1, the axle is still structurally acceptable for further flights if the colora- tion observed inside the axle belongs to range 2, the					

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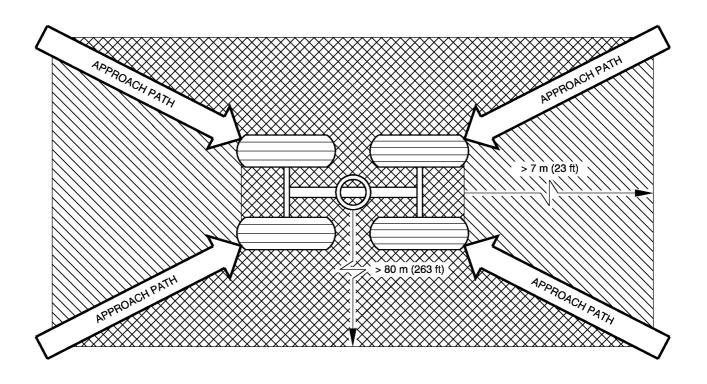
Item	Insp Code	Inspection Tasks to be Accomplished	Phase	Phase 2	Phase 3	Insp Sign	Ref. Fig.
1	2	3	4	5 5	6		
1 		axle is no lon- ger structu- rally accep- table and the bogie beam must be removed and replaced before any further flight (AMM 32-11-14, P. Block 401). (b) The appearance of the surface for evidence of melt- ed cadmium plati- ng (minute drops, pimpled appea- rance): - inspect the inner surface of the axle for evidence of melted cadmium plating (minute drops, pimpled appearance) and do NDT to check the axle by dye penetrant or fluorescent		5 	6	7 	8
 		<pre>inspection. If damage or crack found: - the bogie beam must</pre>		 	 X	 	
		be replaced before any further flight (AMM 32-11-14, P. Block 401).		 	^ 	 	

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NOTE:

RIM HAZARD AREA - RISK OF DIRECT HIT FROM RIM DEBRIS

TIRE HAZARD AREA - RISK OF DIRECT HIT FROM TIRE DEBRIS

- ONLY APPROACH A LANDING GEAR THAT IS HOT OR ON FIRE FROM AN OBLIQUE ANGLE IN THE DIRECTION OF THE TIRE SHOULDER.
- DO NOT GO IN THE RIM HAZARD AREAS; METAL DEBRIS FROM A RIM BURST CAN KILL YOU.
- ONLY GO IN THE TIRE HAZARD AREAS WITH CAUTION; RISK OF DEBRIS FROM TIRE EXPLOSION.

Wheel/Brake Overheat Hazard Areas Figure 001

R

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D. Test Set-Up

(1) If axles are serviceable, restore protective treatment:

- polyurethane primer (Mat No. 16-001) or (Mat No. 16-033)
- polyurethane top coat (Mat No.16-018) or (Mat No. 16-034).
- (2) Replace brake unit as necessary (Ref. 32-42-27, P. Block 401).
- (3)Install replacement wheels as required (Ref. 12-37-32, P. Block 1).

E. Test

	Item	Insp Code	•	Phase	Phase	Phase 3	Insp Sign	: :
	1	2	3	4	5 5	6	7	
	A.		Carry out an operational test of Normal braking system (Ref. 32-42-00, P. Block 501).					
; 	B.		Carry out an operational test of Standby braking system (Ref. 32-43-00, P. Block 501).	X 	 			

F. Close-Up

(1)Remove ground handling and maintenance equipment, tools, standard and special tools, together with ground power and replenishing equipment, all access equipment and miscellaneous items. (Ref. Fig. 002)

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		COLORATION			
CRITERIA	CORRESPONDING TEMPERATURE	PAINT MATERIAL Nº 16-001 MATERIAL Nº 16-018	PAINT MATERIAL N ^O 16-033 MATERIAL N ^O 16-034		
	AMBIANT	- YELLOW	PALE YELLOW GREEN		
1	– 235°C/455°F	BEIGE	PALE YELLOW GREEN		
	275°C/527°F	- DARK BEIGE	GREEN YELLOW BROWN		
2	– 300°C/572°F	BROWN	BROWN		
2	– 325°C/617°F	- DARK BROWN BLACK	DARK BROWN BLACK		

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Table of Coloration Changes Figure 002

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INSPECTION AFTER FLIGHT IN EXCESSIVE TURBULENCE OR IN EXCESS OF VMO/MMO

1. General

R

Inspection is required following a flight crew report and/or information provided by the Flight Data Acquisition Unit.

2. Reason for the Job

NOTE: Excessive turbulence is identified as turbulence that causes large, R abrupt changes in altitude and/or attitude. It usually causes large R variations in airspeed. Passengers and crew are moved violently R R against their seat belts and loose objects are moved around the R aircraft.

- A. A flight in excessive turbulence, which is defined as one where the normal flight maneuvering limits are exceeded i.e. greater than + 2.5g to - 1g clean or + 2g to - Og flaps down, or
- R B. A flight in excess of VMO, which is defined with Speed above VMO + 20 kts, or
- C. A flight in excess of MMO, which is defined with MACH number above R MMO + 0.02M, or
 - D. A flight in excess of VMO/MMO, which is defined with speed above VMO/MMO and with a load factor greater than 1.2g.

3. Equipment and Materials

TTFM DESIGNATION Access Platforms 2.6 m to 16.5 m (8 ft. 7 in. to 54 ft. 3 in.) B. Warning Notices Referenced Procedures - 05-51-44, P. Block 1 Inspection After Flight with High Lateral Loads - 05-56-00, P. Block 1 Leveling and Measurement after A/C Abnormal Operation - 06-41-53, P. Block 1 Fuselage - 06-41-54, P. Block 1 Nacelles and Pylons - 24-41-00, P. Block 301 AC External Power Control - 27-11-00, P. Block 501 Mechanical and Electrical Control (Aileron) - 27-21-00, P. Block 501 Mechanical Control (Rudder) - 27-31-00, P. Block 501 Mechanical Control and Pitch Uncoupling - 27-41-00, P. Block 501 Mechanical Control (THS) - 27-50-00, P. Block 301 Flaps - 27-51-00, P. Block 501 Mechanical and Electrical Control (Flaps) - 27-61-00, P. Block 501 Electrical and Mechanical Control (Spoilers and Speedbrakes) - 27-81-00, P. Block 501 Mechanical and Electrical Controls (Slats) - 28-10-00, P. Block 301 Storage - 28-25-00, P. Block 301 Refuel/Defuel System

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DESIGNATION ______

- 29-10-00, P. Block 301 Main Hydraulic Power - 78-31-00, P. Block 501 Thrust Reverser System Control

4. Procedure

A. Job Set-Up

- (1) Make certain that landing gear ground safety locks are correctly ins-
- (2) Extend flaps (Ref. 27-50-00, P. Block 301).
- (3)Depressurize Green, Blue and Yellow hydraulic systems (Ref. 29-10-00, P. Block 301).
- (4) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (5)Display warning notices in flight compartment prohibiting operation of all systems.
- (6)Position access platforms.
- (7)Open access doors 312AR and 313AL (Ref. 06-41-53, P. Block 1).

B. Leveling and Measurement

(1)If structural damage has been evidenced during phase 2 inspection, carry out a full aircraft leveling and measurement check (Ref. 05-56-00, P. Block 1).

C. Inspection

NOTE: All inspections called for are visual unless otherwise specified in text.

Operators may, at their own discretion or at the direction of their airworthiness authority, use non-destructive test techniques in compliance with the aircraft non-destructive test manual (NTM). Any work upon a system, as a result of the inspection for damage, that entails the disconnection or removal of components, pipes, ducts, cables, electrical connectors and mechanical linkages must be followed by a functional test of the system affected.

NOTE: If severe turbulence is experienced, there may also be high lateral loads in cases of AP disconnection, manual mode, rudder input... For high lateral loads, refer to the chapter "Inspection after Flight with high lateral loads" (Ref. 05-51-44, P. Block 1).

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(1)Fuselage STA1764/FR26/32 to STA4817/FR92

Item	Insp Code		Phase 1	Phase		Insp Sign	
1	2	3		5	6	 7	8
11.	 	Fuselage STA1764/FR26 to STA3143/ FR55/58. External	 	 	 	 	
A.	 	Inspect wing rear spar web to center wing box junction from the MLG bay and wing lower panel to fuselage external skin junction (keel beam angle) from outside, for distortion, cracks, pulled or torn fasteners or damaged paintwork.	x 			 	
B. 	 	At FR54 and adjacent, inspect fuselage lower skin panel between stringers 50RH and 50LH for distortion, cracks, pulled or torn fasteners and damaged paintwork.	X 	 	 	 	
	 	 If damage found (Ref. A or B above): Proceed as follows.	 	 	 	 	
	 	(1)From STA1764/FR26 to STA2294/FR40/ 41 inspect, externally, skin panels, splicing and riveting for distortion, cracks, pulling, tearing and damaged paintwork.	 	x 	 	 	
	 	 If damage found: 	 	 	 	 	
2.	 	 Fuselage STA1764/FR26 to STA3885/FR72. Internal	 	 	 	 	
A. 	 	Inspect, internally, frames, skin panel and stringer splicing, riveting and stringers for distortion, cracks, pulling, tearing and damaged paintwork.	 	 	x 	 	
B. 	 	Remove forward cargo compartment floor panels and inspect floor support structure for distortion, cracks, pulling and tearing of fasteners and damaged paintwork.	 	X 		 	
C.	İ	 At STA2294/FR40/41, inspect upper part of junction between stringers 18RH and 18LH for distortion, cracks, pulled or	 	 	 	 	

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	Insp Code		Phase 1	Phase 2	Phase 3	Insp Sign	
 1	2	3	 4	 5	 6	 7	 8
ا ا		torn fasteners and damaged paintwork.					
 		 External If damage found Internal		X 	 X	 	
D. 		From STA2294/FR40/41 to STA2931/FR54, in main landing gear well, air conditioning compartment and upper fuselage section (external) inspect frames, skin panels, splices, stringers and riveting for distortion, cracks, pulling, tealring and damaged paintwork. If damage found:		X 	 	 	
		<pre>(1)Inspect upper fuselage section in- ternally, frames, stringers, cleats and splices for distortion, cracks, pulled or torn fasteners and damaged paintwork.</pre>			X 	 	
E. 		At STA2241/FR39, inspect the lower langle of center vertical stiffener of pressure bulkhead for distortion, cracks, pulled or torn fasteners and damaged paintwork.		x 	 	 	
F. 		At STA2931/FR54, inspect upper part of junction between stringers 13RH and 13LH for distortion, cracks, pulled or torn fasteners and damaged paintwork.		 	 	 	
 		External If damage found Internal		x 	 x	 	
G. 		From STA2931/FR54 to STA3143/FR55/58, inspect frames, skin panels, splices, stringers and riveting for distortion, cracks, pulling, tearing and damaged paintwork.			 	 	
 		 External If damage found Internal		 X 	 X	 	

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Item	Insp Code	·	Phase 1	Phase		Insp Sign		
	 2	3	 4		 6	 7	 8	
H. 	ĺ	Inspect emergency exit surround panel cut-out corners and riveting for distortion, cracks, pulling, tearing and damaged paintwork.	 	 	 	 	 	11111
 	İ	 External If damage found Internal	 	 X 	 X	 	 	
 I. 	•	 Inspect bulk cargo compartment door hinge fittings for cracks, pulled or torn fasteners and damaged paintwork.	 	 X 	 	 	 	
J. 	 	 Inspect bulk cargo compartment door surround panel at cut-out corners and riveting for distortion, cracks, pul- ling, tearing and damaged paintwork.	 	X 	 	 	 	
 3. 	 	 Horizontal stabilizer cut-out STA4625/ FR87 to STA4817/FR92. Internal	 	 	 	 	 	
A.	 	 Inspect cut-out corners for cracks. 	 X 		 	 	 	
 	 	If damage found: (1)Inspect upper and lower stringers on cut-out edges for distortion, cracks, pulled or torn fasteners and damaged paintwork.	 	 X 	 	 	 	
 	 	<u>NOTE</u> : These inspections should be carried out in conjunction with horizontal stabilizer inspection.	 	 	 	 	 	1

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(2)Wings STAO/RIB1 to STA1868/RIB31

It	em	Insp Code	·	Phase 1	Phase 2			Ref. Fig.
	1 	2	3		5	6	 7	 8
1.	. . 		Wing STAO/RIB1 to STA1434/Rib 23. Ex-	 				
	A. 		Inspect skin panels and fasteners for distortion, cracks, pulling, tearing, damaged paintwork and fuel leakage.	X X			 	
	 		NOTE : Fuel leakage from flap track/ attachment points indicates wing spar box primary struc- ture damage which may not be visible externally.				 	
			 If damage found:	 			 	
	 		(1)Defuel wing tanks (Ref. 28-25-00, P. Block 301) and ventilate (Ref. 28-10-00, P. Block 301).	 	X		 	
			(2)From STAO/RIB1 to STA1868/RIB31, inspect front spar, rear spar, rib skin panels and panel splices for distortion, cracks, pulled or torn fasteners and condition of sealant fillets.	 	X		 	
	 		(3)At STA67/RIB2 and STA1835/RIB30, inspect lower skin stringers on both sides of manholes for distor- tion and cracks.	 	X		 	
			(4)Inspect engine pylon attachment fittings on front spar and between Rib8 and Rib9 for distortion, cracks and pulled or torn fasteners.	 	X		 	
			<pre>(5)On front and rear spars, inspect ducts, lines, cables, pulleys, me- chanical linkages, electrical looms and their mounts for distortion, cracks, rupture breaks and fluid leakage.</pre>	 	X		 	

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(3)Pylon

Item	Insp Code	·	Phase 1	Phase 2			Ref. Fig.
1	2	3	 4	5	6	 7	8
1.		Pylon Assy		 			
A. 	 	Inspect access doors 473AL (483AL), 474AR (484AR) (Ref. 06-41-54, P. Block 1) and their surround panels for dis- tortion and cracks.	X 		 	 	
	 	 If damage found:	 	 	 	 	
	 	(1)Open engine cowlings and inspect main frame upper and lower longe- rons and gussets for distortion, cracks, pulled or torn fasteners.	 	 X 	 	 	
 	 	 (2)Inspect all ducts, lines, cables, pulleys, electrical looms and their mounts for distortion, cracks, rup- ture and fluid leakage.		 X 	 	 	

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(4)Horizontal Stabilizer

Item 	Insp Code		Phase 1	Phase 2	Phase 3	Insp Sign	
	2	3	 4	5	6	 7	8
	 	 Horizontal stabilizer center box STA93/RIB3 LH to RH	 	 	 	 	
A. 	 	Inspect upper and lower skin panels and actuator fittings, ribs and spar rive- ting for distortion, cracks, pulling, tearing and damaged paintwork.	x 		 	 	
	 	If damage found:	 		 	 	
 	 	(1)Inspect rear spar web on both sides of the pivot bearing fittings for distortion, cracks, pulled or torn fasteners and damaged paintwork.	 	 X 	 	 	
 	 	 (2)Inspect hydraulic lines, mechanical linkages, electrical looms and their mounts for distortion, cracks, rupture and fluid leakage.	 	 X 	 	 	

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(5)Vertical Stabilizer

Item 	Insp Code		Phase 1	Phase		Insp Sign	
		 3	4	 5	 6	 7	 8
1.		 Spar Box		 	 	 	
 A. 	 	 Inspect spar box externally for dis- tortion, cracks, pulled or torn faste- ners and damaged paintwork.	X 	 	 	 	
	 	 If damage found:		 	 	 	
	 	(1)Open access doors 311AZ and 311BZ (Ref. 06-41-53, P. Block 1) and inspect attachment fittings and their adjacent structure for distortion, cracks, pulled or torn fasteners and damaged paintwork.		X X 	 	 	
	 	(2)Inspect front and rear spar webs for distortion, cracks, pulled or torn fasteners and damaged paint- work.		 X 	 	 	
 	 	(3)On rear spar, inspect hydraulic lines, mechanical linkages, electrical looms and their mounts for distortion, cracks, rupture and fluid leakage.		 X 	1 	 	

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D. Test Set-Up
 (1)Remove warning notices from flight compartment.

E. Test

Item	Insp Code		Phase 1	Phase 2		Sign	Fig.
1	2	3	4	5	 6	 7	
	 	NOTE : The following tests are only applicable if the inspection has revealed damage on structure adjacent to a flight control surface, or cowl.			 	 	
1.	 	Carry out an operational test of aile- rons and make certain that movement is full and free of fouling or binding (Ref. 27-11-00, P. Block 501).	 	X	 	 	
2.	 	Carry out an operational test of rudder and make certain that movement is full and free of fouling or binding (Ref. 27-21-00, P. Block 501).	 	x	 	 	
3.	 	Carry out an operational test of ele- vators and make certain that movement is full and free of fouling or binding (Ref. 27-31-00, P. Block 501).	 	x	 	 	
4.	 	Carry out an operational test of trim- mable horizontal stabilizer and make certain that movement is full and free of fouling or binding (Ref. 27-41-00, P. Block 501).	 	X	 	 	
5.	 	Carry out an operational test of flaps and make certain that movement is full and free of fouling or binding (Ref. 27-51-00, P. Block 501).	 	X	 	 	
6.	 	Carry out an operational test of spoillers and speedbrakes and make certain that movement is full and free of foulling or binding (Ref. 27-61-00, P. Block 501).	 	X	 	 	
7.	 	 Carry out an operational test of lift augmenting devices and make certain that movement is full and free of fou- ling or binding (Ref. 27-81-00, P.	 	X	 	 	

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Item	Insp Code			Phase	3	Sign	Fig.	
1	2	3	4	5	6	7	8	ĺ
	 	 Block 501).	 		 	 	 	
8.	 	 Carry out an operational test of thrust reverser system and make certain that		X		 	 	
	 	movement is full and free of fouling			 	 	 	

F. Close-Up

- (1)Close access doors 312AR and 313AL.
- (2) Remove access platforms.
- (3)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment, all access equipment and miscellaneous items.

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INSPECTION AFTER LIGHTNING STRIKE

WARNING: WEAR AND ATTACH A SAFETY HARNESS WHEN YOU WORK ON HIGH SECTIONS. A

FALL CAN INJURE OR KILL YOU.

WARNING: PUT THE SAFETY DEVICES AND THE WARNING NOTICES IN POSITION BEFORE YOU

START A TASK ON OR NEAR:

- THE FLIGHT CONTROLS

- THE FLIGHT CONTROL SURFACES

- THE LANDING GEAR AND THE RELATED DOORS
- COMPONENTS THAT MOVE.

1. General

R

R R

R R

R R

R

- Inspection after Lightning Strike for Quick Release up to 50 Flight Cycles.
- Full Inspection after Lightning Strike.
- 2. Inspection after Lightning Strike for Quick Release up to 50 Flight Cycles

CAUTION: WHEN YOU DO THE FULL INSPECTION:

- IF YOU FIND STRUCTURAL DAMAGE THAT IS THE RESULT OF A LIGHTNING STRIKE, AND
- IF THE SRM SPECIFIES ALLOWABLE DAMAGE LIMITS FOR THAT DAMAGE, THE FLIGHT CYCLE VALUES FOR THE ALLOWABLE DAMAGE LIMITS START FROM THE LIGHTNING STRIKE AND NOT FROM THE END OF THE FULL INSPECTION.

This procedure allows A/C release after a limited examination. In all cases, a full inspection must be done within the next 50 Flight Cycles.

A. General

(1)Lightning

- (a)Lightning always has two or more attachment points (one entry and one exit) on the aircraft skin.
- (b)Lightning moves back along the surface of the aircraft (swept stroke zone). This can cause a chain of scattered attachment points along a line in the direction of travel of the aircraft.
- (c)Lightning hits some areas more frequently than others.
- (2)Inspection zones for quick release inspection after lightning strike up to 50 flight cycles (Ref. Fig. 001, 002, 003) (Ref. Fig. 004, 005)
 - (a) The aircraft is divided into four zones where lightning attachment is more frequent and for which the inspection is systematic:
 - 1 Zone 1:
 - forward fuselage, from radome to FR38.2 and FR40/41 (lower fuselage).
 - 2 Zone 2:
 - nacelles, pylons and area between flap track 2 and 3.
 - 3 Zone 3:
 - outboard wing (from wing tip to flap track 4).
 - 4 Zone 4:
 - horizontal stabilizer, vertical stabilizer and fuselage tail cone.

EFFECTIVITY: ALL

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- B. Inspection Preparation
 - (1)Before you start, we recommend that you get information from the crew about the flight condition through the PFR.
 - (2)All events reported by the crew must be checked in addition/conjunction with this inspection.
- C. Inspection Sequence
 - (1)General

R

R

- (a)If there is damage on the composite parts (signs of impact, damaged paintwork, abrasions, delamination or dents), you must do a detailed inspection of the related damaged area for delamination and internal damage. Refer to the Non-Destructive Testing Manual (NTM).
- (b)If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.
- (2) The inspections are divided into two phases:
 - (a)Phase 1 inspections
 - The phase 1 inspections are general visual inspections for primary damage and signs of other related damage.

For the vertical stabilizer only, you can use BINOCULARS - (7X50) and do the inspection from a platform at horizontal stabilizer height or do a general visual inspection from a cherry picker.

Most of the phase 1 inspections are external.

You must do all the phase 1 inspections:

- If you find damage during the phase 1 inspections and if there is reference to the phase 2 inspections, you must do the related phase 2 inspections.
- If you find no damage during the phase 1 inspections, it is not necessary to do the phase 2 inspections.
- (b)Phase 2 inspections
 - The phase 2 inspections are more detailed and it can be necessary to remove components.

Most of the phase 2 inspections are internal.

D. Equipment and Materials

ITEM	DESIGNATION
(1)	Adjustable Access Platform 10 m (33 ft.)
(2)	Cherry Picker 16 m (52.5 ft.)
(3)	Binoculars - (7x50)
(4)	Light Source - Adjustable Tower Floodlight 9000 Watts
(5)	Warning Notices
Referenced Procedure	_
- 23-11-00, P. Block 501	HF System
- 23-12-00, P. Block 501	VHF System
- 23-12-11, P. Block 401	VHF Antenna
- 23-60-00, P. Block 601	Static Discharging
- 24-41-00, P. Block 301	AC External Power Control
- 27-14-00, P. Block 501	Hydraulic Action - Aileron

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ITEM	DESIGNATION
- 27-14-12, P. Block 401	Servo Control - All Speed Aileron
- 27-24-00, P. Block 501	Hydraulic Actuation - Rudder
- 27-24-11, P. Block 401	Servo Control - Rudder
- 27-34-00, P. Block 501	Hydraulic Actuation - Elevator
- 27-34-11, P. Block 401	Servo Control - Elevator
- 27-44-00, P. Block 501	Hydraulic Actuation - THS
- 27-50-00, P. Block 301	Flaps
- 27-54-00, P. Block 501	Hydraulic Actuation and Power Transmission - Flaps
- 27-60-00, P. Block 301	Spoilers and Speedbrakes
- 27-64-00, P. Block 1	Hydraulic Actuation - Spoilers and Speedbrakes
- 27-80-00, P. Block 301	Lift Augmenting
- 27-84-00, P. Block 501	Hydraulic Actuation and Power Transmission - Slats
- 29-10-00, P. Block 301	Main Hydraulic Power
- 30-31-00, P. Block 501	Probe Ice Protection
- 30-42-00, P. Block 501	Windshield Panel Anti Icing and Defogging
- 30-71-00, P. Block 501	Drain Mast Ice Protection
- 30-81-00, P. Block 501	Ice Detection
- 31-51-00, P. Block 501	ECAM System
- 32-10-00, P. Block 601	Main Gear and Doors
- 32-12-11, P. Block 301	Door - Main Gear Main
- 32-20-00, P. Block 601	Nose Gear and Doors
- 32-22-11, P. Block 301	Door - Nose Gear Main
- 32-31-00, P. Block 501	Normal Extension and Retraction
- 32-42-00, P. Block 501	Normal Braking
- 32-43-00, P. Block 501	Alternate Braking
- 32-51-00, P. Block 501	Steering
- 32-61-00, P. Block 501	Indicating and Warning
- 33-41-00, P. Block 501	Navigation Lights
- 33-42-00, P. Block 501	Landing Lights
- 33-43-00, P. Block 501	Runway Trunoff Lights
- 33-41-00, P. Block 501	Lights Logo
- 33-48-00, P. Block 501	Anti-Collision Lighting
- 33-49-00, P. Block 501	Wing and Engine Scan Lightning
- 34-10-00, P. Block 501	Flight Environment Data
- 34-11-15, P. Block 401	Probe - Pitot
- 34-11-18, P. Block 401	Probe - Total Air Temperature
- 34-11-19, P. Block 401	Probe - Alpha
- 34-28-00, P. Block 501	Heading Information - Switching and Indicating
- 34-33-00, P. Block 501	Marker Beacon System
- 34-36-00, P. Block 501	ILS
- 34-36-11, P. Block 401	Localizer 1 and 2 Antenna
- 34-36-41, P. Block 401	Glide Antenna
- 34-41-00, P. Block 501	Weather Radar System
- 34-41-11, P. Block 401	Antenna - Assembly Weather Radar
- 34-42-00, P. Block 501	Radio Altimeter
- 34-42-11, P. Block 401	Radio Altimeter Transmission and

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ITEM	DESIGNATION
	Reception Antenna
- 34-44-00, P. Block 501	Traffic Collision Avoidance System
- 34-48-00, P. Block 501	Ground Proximity Warning System
34-51-00, P. Block 501	DME
34-52-00, P. Block 501	ATC
34-53-00, P. Block 501	ADF
34-55-00, P. Block 501	VOR
49-00-00, P. Block 501	Airborne Auxiliary Power - General
53-10-61, P. Block 601	Radome
55-32-11, P. Block 401	Leading Edge - Vertical Stabilizer
55-34-11, P. Block 401	Tip - Vertical Stabilizer
56-11-11, P. Block 601	Windshield Panels
56-11-12, P. Block 601	Window Panels - Fixed Side
56-12-11, P. Block 601	Window Panels - Sliding Side
**ON A/C 226-226, 229-249,	
- 73-23-00, P. Block 501	Engine Electronic Control
78-32-11, P. Block 501	Thrust Reverser Translating Sleeves
*ON A/C 401-401, 404-500,	
73-38-00, P. Block 501	FADEC System Indicating
78-38-00, P. Block 501	Thrust Reverser Translating Sleeves
*ON A/C ALL	
E. Job Set-up	
(1)Safety Precautions	
(a)Make sure that the sat (2)Aircraft Maintenance Con	ety devices are installed on the landing gears.
	ound power unit and energize the aircraft
	f. 24-41-00, P. Block 301).
(b)Open the MLG doors and	install the safety devices (Ref. 32-12-11,
P. Block 301).	
•	I install the safety devices (Ref. 32-22-11,
P. Block 301).	27 EO OO D Plank 704)
(d)Extend the flaps (Ref.	2/-XII-IIII D RIACK XIII)
(e)Extend the slats (Ref.	
<pre>(e)Extend the slats (Ref. (f)Extend the spoilers an</pre>	d the speed brakes (Ref. 27-60-00, P. Block 301
<pre>(e)Extend the slats (Ref. (f)Extend the spoilers an (g)Display the warning no</pre>	d the speed brakes (Ref. 27-60-00, P. Block 301 tices in the flight compartment prohibiting
<pre>(e)Extend the slats (Ref. (f)Extend the spoilers an (g)Display the warning no operational use of the</pre>	d the speed brakes (Ref. 27-60-00, P. Block 301 tices in the flight compartment prohibiting flap and slat systems.
(e)Extend the slats (Ref.(f)Extend the spoilers an(g)Display the warning no operational use of the(h)Depressurize Green hyd power cart.	nd the speed brakes (Ref. 27-60-00, P. Block 301 ptices in the flight compartment prohibiting flap and slat systems. Iraulic system and disconnect hydraulic ground
(e)Extend the slats (Ref.(f)Extend the spoilers an(g)Display the warning no operational use of the(h)Depressurize Green hyd power cart.	d the speed brakes (Ref. 27-60-00, P. Block 301 tices in the flight compartment prohibiting flap and slat systems.

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the area you must examine.

(3)Calibration for Binocular examinations

NOTE : Do the calibration only if the vertical stabilizer is to be inspected with binoculars.

(a)Before the examination, make sure that the type of BINOCULARS - (7X50) and the LIGHT SOURCE - ADJUSTABLE TOWER FLOODLIGHT 9000 WATTS are satisfactory for the task.

You must do these actions first:

- <u>1</u> Point the LIGHT SOURCE ADJUSTABLE TOWER FLOODLIGHT 9000 WATTS to the upper area of the vertical stabilizer (minimum 60 LUX, measured on the surface of the aircraft).
- With the BINOCULARS (7X50) make sure that you can see the rivet line between the fin cap and vertical stabilizer box interface from the ground when you are between flap track 4 to 5.
 - If you can clearly see the rivet line, the conditions are satisfactory to examine the aircraft.
- F. Inspection Procedure
 - (1)Inspection Phase 1
 - (a)Inspection of the forward fuselage (Zone 1) (Ref. Fig. 001, 002)

|ITEM|INSP| INSPECTION TASKS |PHASE|PHASE|PHASE|INSP|REF| | 1 | 2 | 3 |SIGN|FIG| |CODE| 3 | 4 | 5 | 6 | 7 | 8 | Inspection of the Fuselage Skin | Examine visually the fuselage skin for | X | | burn marks, change of color and | disruption of the surface. | (1)If the longest distance (X) between two impacts in zone 1 is greater than the distance (Y) between the last impact and FR38.2, you must continue the inspection by the distance (X) aft from the last impact. - If you find damage, continue the inspection by the distance (X) aft from the last detected impact. |2. | Inspection of the Radome Α. | Examine visually the radome external | X | skin and the lightning diverters for | burn marks, change of color, puncturing and other damage. |3. | Inspection of the Windshield, Fixed

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 ITEM 	INSP		PHASE	PHASE		INSP SIGN	
1	 2	3	 4	5	6	 7	
 		Windows, Sliding Windows and Window Frames			 		
A. 		Examine visually the windshield, the fixed windows, the sliding windows and the window frames for burn marks, change of color and disruption of the surface.	X				
 4. 		Inspection of all Communication and Navigation Antennas and the Adjacent Area	 		 	 	
 A. 		Examine carefully all the communication and navigation antennas and the adjacent area for burn marks, change of color, puncturing and delamination.	X			 	
 5. 		Inspection of all the Probes, Sensors, Drain Masts and Adjacent Area.	 		 	 	
 A. 		Examine all the probes, sensors, drain masts and adjacent area for burn marks and change of color.	x		 	 	
 6. 		Inspection of all the Exterior Lights and Adjacent Area	 			 	
 A. 		Examine all exterior lights and adjacent area for burn marks and other damage.	X		 	 	
 7. 		Inspection of the Nose and Main Landing Gear Doors	 			 	
 A. 		Examine the skin and all the NLG and MLG Doors for burn marks, change of color, puncturing and delamination.	x		 	 	
 8. 	, , , ,	Inspection of the Nose and the Main Landing Gears	 		 	 	
 		<pre>NOTE : Do these checks if the lightning strike occurred: - when the LG was extended and locked down,</pre>			 	 	

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ITEM	INSP CODE		PHASE	PHASE		INSP	: :
	CODE			<u>2</u> 	J 		
1	 2 	3	 4	5	6	7	8 8
		 during the extension of the LG and when you find a through hole during the inspection of the landing gear doors. 					
A.	 	Examine the NLG and the MLG for burn marks, change of color and puncturing.	X		 	 	
B. 		Examine the landing gear structure, the shock absorber, the components, the electrical parts and the hydraulic pipes for burn marks, change of color and other damage.	x				
9.		Inspection of the Wing-to-fuselage Fairing			 	 	
A -		Examine the wing-to-fuselage fairings for burn marks, change of color, puncturing and delamination. (1) If the longest distance (X) between two impacts in zone 1 is greater than the distance (Y) between the last impact and FR40/41, you must continue the inspection by the distance (X) aft from the last impact. - If you find damage, continue the inspection by the distance (X) aft from the last detected impact.	X				
B.	 	Examine fairing screws and fasteners for burn marks.	x				

(b)Inspection of the engine nacelles and pylons (Zone 2)
 (Ref. Fig. 003)

ITEM INSP CODE		1	2	PHASE 3	SIGN	FIG
	3	4	5	 6 	7	8
	Examine each air intake, inlet cowl, thrust reverser, exhaust nozzle and the	X	ı	 		

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•	-	INSP		PHASE 1					
	1		3	4	5 5	6		8	
	 		<pre>pylon for burn marks, change of color, puncturing and delamination.</pre>	 	 	 		- 	

(c)Inspection of the outboard wing, from wing tip to flap track 4 (Zone 3) (Ref. Fig. 004)

ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE	PHASE 3	INSP SIGN	
1	2	3	4	5	6	7	8
1.		Examine the wing leading edge for burn marks, change of color, puncturing and delamination.	X X 	 	 		
2.	 	Examine the wing slats for burn marks, change of color and puncturing.	X 	 	 		
3.		Examine the wing tip for burn marks, change of color, puncturing and other damage.	x 	 	 		
4.		Examine the lights of the wing tip for burn marks, change of color, puncturing and other damage.	x 	 	 		
5.		Examine all the static dischargers for burn marks, damage tip and breakage.	X 	 	 		
6. 		Examine the wing trailing edge from the wing tip to the inboard aileron for burn marks, change of color and puncturing.	X 				

(d)Inspection of the rear section of the aircraft (vertical stabi--lizer, horizontal stabilizer and rear fuselage) (Zone 4) (Ref. Fig. 005, 006)

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ITEM 	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2	_	INSP SIGN	
1	2	3	 -	5	6	 7	 8
 1. 		Examination of the Vertical Stabilizer (Refer to Figure 005) NOTE: If the inspection is to be done with BINOCULARS - (7X50) (Refer to Figure 006 for the position of platforms).	 			 - 	
A.		Examine all the static dischargers for burn marks, damaged tip and breakage.	x			 	
 B. 		Examine the skin of the vertical stabilizer and the rudder (specially the leading and the trailing edges, the rudder surface in the hinge area and the antenna fairings), the fin tip cap, the fin and rudder tip cap lightning diverters for burn marks, change of color, puncturing and other damage.	x				
2.	 	Inspection of the Horizontal Stabilizer				 	
 A -		Examine all the static dischargers for burn marks, damaged tip and breakage.	X X			 	
B. 		Examine the skin of the horizontal stabilizer and elevators (specially the leading and the trailing edges, the elevator surface in the hinge area and the tip) for burn marks, change of color, puncturing and other damage.	X				
 3.		Inspection of the APU Exhaust	 			! 	!
 A. 		Examine the APU exhaust for burn marks and change of color.	 X 			 	!

(e)Inspection of the ECAM

	
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-	-	INSP CODE		PHASE 1		•	-	-	
	1	2	3	4	5	6	7	8	
	 1. 		Do a test of the SDAC (Ref. 31-51-00, P. Block 501).	X 	 	 	 	 	

(f)Operational Test of the HF System

	INSP		PHASE		-	-	-
 	CODE	 	1 	3 			
 1 	 2 	3	:	6 6	:		:
1.		Do a operational test of HF system (Ref. 23-11-00, P. Block 501).	x 		 	İ I	

(2)Inspection Phase 2

(a)Check after damage on the forward fuselage (Zone 1)

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2	PHASE	INSP SIGN	
1	 2 	3	4	 5 	 6 	7	8
A.		If you find damage during the inspection:	 	 	 	 	
		(1)Refer to the flow chart for the allowable damage and repair		X 	 		
 	 	<pre>(Ref. SRM). (2)If you find a through hole: (a)Examine internally the</pre>	 	 X 	 		
j I	i i I I	adjacent area of the damage, specially the components, the	j 	 	 		
		pipes and the electrical looms for damage.			 		
 	 	<pre>If you find damage: - Repair or replace the related component.</pre>	 	 	 x		

(b)Check after damage on the radome (Zone 1)

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ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE	3	SIGN	FI
1	 2	3	4		6	 7	· 8
Α.		If you find damage on the radome external skin:	 	 	 	 	
	 	(1)Do the detailed inspection of the radome (Ref. 53-10-61, P. Block 601).	 	X 	 	 	
В.	 	If you find damage on the lighting	; [: 	
	i i	arrester:	į	İ	ĺ	İ	İ
	 	(1)Do the detailed inspection of the radome	 	X 	 	 	
		(Ref. 53-10-61, P. Block 601).	 	 	 	 	
С.	 	<pre>If you find a through hole on the radome:</pre>	 	 		 	
	' ' 	(1)Examine the weather radar and the	i	! 	X	i	!
	i i	WR antenna drive for burn marks,	i			İ	i
	i i	pitting and other damage.	į	İ	ĺ	İ	İ
Ì		If you find damage:	ĺ			l	
Ì		(a)If you find damage on the	ĺ		X		
		flat plate antenna, replace					
		it (Ref. 34-41-11, P.				l	
		Block 401).					
		(b)Do the operational test and	!	<u> </u>	X	<u> </u>	
		the system test of the weather				<u> </u>	ļ
		radar		 		 	
	 	(Ref. 34-41-00, P. Block 501). (2)Examine the localizer antenna and/	 	 	 v	 	
	 	or the glide/slope antenna for	! 	 	X	l I	l I
	 	damage.	! 	I 	l 	i I	
	 	If you find damage on the localizer	! 	! 	! 	! 	İ
	i i	antenna, replace it	i		<u> </u>	i	i
		(Ref. 34-36-11, P. Block 401).	i	İ	İ	İ	İ
j	į į	If you find damage on the glide/	İ	İ		İ	ĺ
Ï	l İ	slope antenna, replace it	[
		(Ref. 34-36-41, P. Block 401).					

(c)Check after damage on the windshield, fixed windows, sliding windows and the window frames (Zone 1)

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	INSP CODE		PHASE 1	PHASE	:	INSP SIGN	:	:
1	 2	3	4			 7		
1.		If you find damage during the inspection: (1)Do the inspection of the related component: - for the windshield (Ref. 56-11-11, P. Block 601) - for the fixed windows (Ref. 56-11-12, P. Block 601) - for the sliding windows	- 	 	 	 		111111111
	 	(Ref. 56-12-11, P. Block 601). (2)Do the operational test of the windshield anti-icing and defogging		 x 	 	 	 	<u> </u>
		(Ref. 30-42-00, P. Block 501). (3) Do the operational test of the standby compass (Ref. 34-28-00, P. Block 501).		 x 	 	 	 	i

(d)Check after Damage on the Probes, Sensors, Drain masts and adjacent area

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

ITEM	INSP CODE		PHASE 1		PHASE		
1 1	2	3	4	5	6	 7	8
1.	 	Pitot probes		 	 	 	
A.		If you find damage during the inspection:	 		 	! 	
	 	(1)Replace the pitot probes (Ref. 34-11-15, P. Block 401).	 	X 	 	 	
 	 	<pre>(2)If you find damage on the adjacent area:</pre>	 	 	 	 	
	 	 Refer to the allowable damage and repair (Ref. SRM). 		X 	 	 	
 2. 	 	Static probes	 	 	 	! 	[
A-		If you find damage during the inspection:	 		 	 	
1	1	(1)Refer to the allowable damage and		l X			I

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ITEM	INSP CODE		PHASE 1	PHASE 2	PHASE 3	INSP SIGN	: :
1		3	4		6	 7	8
	 	repair (Ref. SRM).		 			
3.		TAT sensors	 	 	 	 	
A -		<pre>If you find damage during the inspection: (1)Replace the TAT sensors (Ref. 34-11-18, P. Block 401). (2)If you find damage on the adjacent area: - Refer to the allowable damage</pre>	 	 X X	 	 	
_		and repair (Ref. SRM).	ļ		 	 !	
4.	 	ALPHA probes	 		 	 	
A -		<pre>If you find damage during the inspection: (1)Replace the ALPHA probes (Ref. 34-11-19, P. Block 401). (2)If you find damage on the adjacent area:</pre>		 	 	 	
		 Refer to the allowable damage and repair (Ref. SRM). 	 	X 	 -	 	
5.		If you find damage on ALPHA, TAT, static or pitot probes:			 	 	
Α.		Do the operational test of the probe ice protection system (Ref. 30-31-00, P. Block 501).	 	 X 	 	 	
		(1)Do the ADS switching test (Ref. 34-10-00, P. Block 501).		x	 	 	
6.	 	Drain Masts			 	 	
A.		<pre>If you find damage during the inspection: (1)Do the operational test of the drain mast ice protection (Ref. 30-71-00, P. Block 501).</pre>		 X 	 	 	

(e)Check after damage on the wing-to-fuselage fairings NOTE : If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage

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limits and repair procedures.

ITEM 	INSP CODE 	INSPECTION TASKS	 PHASE 1 	PHASE 2 	PHASE 3 	INSP SIGN	
1	2	3	4	5	6	7	8
 1. 	 	If you find damage during the inspection:	 	 	 	 	
A.		Refer to the allowable damage and repair (Ref. SRM).	 	x	 		
 		<pre>(1)If you find a through hole: (a)Get internal access and examine the adjacent and</pre>	 	 X 	 	 	
	į į	underneath area to do a check			<u> </u>		
 		of all the components (pipes, items of equipment, electrical	 	 	 	 	
1	İ	harnesses) for damage.			l		
		If you find damage:					
		Replace or repair the related component.	 	 	X 	 	

(f)Check after Damage on the Nose and/or Main Landing Gear Doors

NOTE: If there is damage to the aircraft structure, refer to the

Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE	:	INSP SIGN	:
1	2	3	4	5	6	 7	8
1.		If you find damage during the inspection:		 	 	 	
A.		Refer to the allowable damage and repair (Ref. SRM).		 X 	 	 	!
	 	(1)If you find a through hole:Examine internally the adjacent and underneath area including	 	X 	 	 	
		all the components (pipes, items of equipment, electrical		 	 	! 	
!	 	harnesses) for damage. If you find damage:		 	 	 !	
	 	 Replace or repair the related component. 		X 	 	 	
2.		If you find damage on the electrical bonding leads during the inspection:		 	 	 	

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	INSP CODE		PHASE 1	2	•	SIGN	FIG	ĺ
1 1	2	3	!	!	6 6	!		:
A. 	 	Replace the electrical bonding lead and/or the defective attachment.	 	X 	 	 	 	

(g)Check after damage on the nose and/or main landing gear

	ITEM	INSP CODE		PHASE 1	PHASE 2		INSP SIGN	: :
	1	 2 	3		5	 6	 7	 8
	1. 1.		If you find damage on the landing gear during the inspection:					
R	 A.	 	Contact Airbus.	 	x	 	 	
R	 B. 		Do the inspection of the landing gear:	 			 	
	 	 	(1)For the NLG: (Ref. 32-20-00, P. Block 601).	 	X		 	
	 	 	(2)For the MLG: (Ref. 32-10-00, P. Block 601).	 	X 	 	 	
R	C. 		Do an operational test of landing gear extension and retraction (Ref. 32-31-00, P. Block 501).	 	X		 	
R	 D. 		Do an operational test of indicating and warning system (Ref. 32-61-00, P. Block 501).	 	X			
R	 E. 		Do an operational test of the normal and alternate braking (Ref. 32-42-00, P. Block 501) (Ref. 32-43-00, P. Block 501).		X		 	
R	 F. 		Do an operational test of the steering system (Ref. 32-51-00, P. Block 501).	 	Х	 	 	
	 2. 		If you find damage on the components attached to the landing gear:	 		 	 	
R	 A.	 	Contact Airbus.	 	X	 	 	
R	 B.		Examine the electrical components	 	X		 	

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ITEM	INSP	INSPECTION TASKS	PHASE	PHASE	PHASE	INSP	REF	
	CODE			2		:	:	ĺ
			-		!		!	İ
1	2	3	4	5	6	7	8	l
		internally as necessary.		 	 	 		
C.	 	Repair and replace the mechanical		 X	 	!]
		and hydraulic components as						
		necessary.						l

(h)Check after damage on the communication antennas

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

(Ref. Fig. 007)

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ITE	INSP CODE		PHASE	PHASE 2	PHASE 3	INSP SIGN	
	2	3	4	5	6	 7	8
 1. 		If you find damage on one or more antennas, do an inspection of the structure up to 1 m (3.28 ft.) radius aft of the antenna. If the longest distance (X) between two impacts is greater than the distance (Y) between the last impact and a 1 m (3.28 ft.) radius aft of the antenna, you must continue the inspection by the distance (X) aft from the last impact. Do again the inspection in the aft direction until you find no other damage.		X			
2.		VHF antennas				 	
A		If you find cracks or if you find burn mark with a mark greater than 5 mm (0.2 in.) diameter replace the antenna (Ref. 23-12-11, P. Block 401).		X		 	
B		If the burn mark is equal to or smaller than 5 mm (0.2 in.) diameter, do the operational test of the VHF antenna (Ref. 23-12-00, P. Block 501).		X			
C	.	If the operational test is OK , you must					

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ITEM	INSP		PHASE				
	CODE		1	2	3	SIGN	F 1 G
1 1	 2 	3	4 	5 5	6 6		 8
	 	replace the VHF antenna in a number of cycles equal to or less than 50 FC.	 		 		
D.	 	<pre>If test is not OK, do a BITE test - Replace the damaged component.</pre>	 		 x		
3.	 	HF fairing	 		 	 	
A.	 	<pre>If you find damage on the HF fairing:</pre>	 		 	 	
	 	 Refer to the allowable damage and repair (Ref. SRM). 	 	X 	 	 	
B.		If you find a through hole on the HF fairing during the inspection:	 		 	 	
		(1)Remove the HF fairing (Ref. 55-32-11, P. Block 401).	 	X	 	 	
		(2)Examine the HF antenna and the feeder for signs of arc attachment.	 	X 	 	 	
		 If you find damage, do the operational test of the HF system 	 		x		
	ı I	(Ref. 23-11-00, P. Block 501).			 		
C. 		If the operational test is OK , you must replace the radar antenna or the feeder in a number of cycles equal to or less than 50 FC .		X 	 		

(j)Check after damage on the navigation antennas

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

ITEM	INSP	INSPECTION TASKS	PHASE	PHASE	PHASE	INSP	REF
	CODE		1	:		SIGN	FIG
1		3	4	 5	6	 7	 8
		DME antennas		 	 	 	
A.		If you find damage, do the functional test of the DME (Ref. 34-51-00,	 	 X 	 	 	
		P. Block 501).	İ	İ		İ	İ
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	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2		INSP SIGN	
1	 2	3	 4	5	 6	 7	 8
В.		If the functional test is OK , you must replace the antenna in a number of cycles equal to or less than 50 FC .		X	 	 	
2.	 	Radio altimeter antennas	 		 	 	
A.		If you find damage on the antennas, replace them (Ref. 34-42-11, P. Block 401).	 	X	 	 	
B.		If you find damage on fasteners then do a BITE test (Ref. 34-42-00, P. Block 501).	 	х	 	 	
C. 3.		If the test is OK, you must replace the antenna in a number of cycles equal to or less than 50 FC. ADF antenna(s)	 	X	 	 	
A.		If you find damage, do an operational of the ADF (Ref. 34-53-00, P. Block 501).	 	X	 	 	
B.		If the test is OK , you must replace the antenna in a number of cycles equal to or less than 50 FC .	 	х	 	 	
4.	 	ATC antenna(s)	 		 	 	
A .		If you find damage, do the BITE test of the ATC (Ref. 34-52-00, P. Block 501).	 	X	 	 	
5.		TCAS antennas, if installed.	 		! 	! 	
A -	 	If you find damage, do the BITE test of the TCAS (Ref. 34-44-00, P. Block 501).	 	X	 	 	
B.	 	If the test is OK , you must replace the antenna in a number of cycles equal to or less than 50 FC .	 	X 	 	 	
6.		Not applicable	 		 	 	
7.	 :	VOR antennas	 		 -	 -	[

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ITEM	INSP CODE		PHASE 1	PHASE 2	PHASE 3	INSP SIGN	: :
1	 2	3		5		 7	
Α.	 	If you find damage on the fin tip cap (VOR fairing): - Refer to the allowable damage and repair (Ref. SRM). If you find a through hole on the fin tip cap:	 	 X 	 	 	
	 	 Remove the fin tip cap (Ref. 55-34-11, P. Block 401). Examine the VOR antenna for signs of arc attachment. 		X X	 	 	
		- Do the operational test of the VOR system (Ref. 34-55-00, P. Block 501).		 X 	 	 	
В.	 	If you find damage on the VOR antenna:Do the operational test of the VOR system		 X	 	 	
C.		(Ref. 34-55-00, P. Block 501). If the test is OK, you must replace the antenna in a number of cycles equal to or less than 50 FC.		 X 	 	 	
8.	 	MKR antennas		 	 	! 	
Α.	 	If you find damage on the MKR antenna:			 	 	
 B.	 	 Do the operational test of the MKR system (Ref. 34-33-00, P. Block 501). If the test is OK, you must replace 		X X	 	 	
		the antenna in a number of cycles equal to or less than 50 FC.		, ^ 	 	 	
 9. 		GPWS system		 	! 	 	
A. 		<pre>If you find damage on the radio altimeter antennas and/or IL antennas (glide and/or localizer): - Do the operational test of the GPWS (Ref. 34-48-00, P. Block 501).</pre>		 X	 	 	

(k)Check after damage on the outboard wings (Zone 3)

NOTE : If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage

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limits and repair procedures.

ITEM	INSP CODE		PHASE 1	PHASE 2	:	INSP SIGN	
1	 2 	3	 4	5	 6	 7 	 8
1.		If you find damage on the leading edge or the wing tip:	 		 		
Α.		Examine the wing upper and lower panels between the leading edge and the trailing edge from the wing tip to the flap track 4.	 	X	 	 	
2.		If you find damage on the wing leading edge:			 	 	
Α.		Refer to the allowable damage and repair (Ref. SRM).		X	 	 	
3.	 	If you find damage on the slats:	 		 	 	
A .		Refer to allowable damage and repair (Ref. SRM).Do the operational test of the slats (Ref. 27-84-00, P. Block 501).	 	X	 x 	 	
4.	 !	If you find damage on the ailerons:			 	 	
Α.	 	Refer to the allowable damage and repair (Ref. SRM).	 	X	 	 	
	 	 Examine all the bonding leads of the aileron hinges and servocontrols of the related damaged aileron for breakage and defective attachment. If you find damage: 	 	X	 	 	
		 Replace the bonding lead and/or the defective attachment. Examine the piston rod and the hydraulic connections of each servocontrol (it must be fully extended) of the related damaged aileron for damage and leaks. 	 		X 	 	
		 If you find a leak or damage: Replace the related aileron servocontrol (as applicable) (Ref. 27-14-12, P. Block 401). 	 		 X 	 	
	 	 Do the operational test of the ailerons (Ref. 27-14-00, P. Block 501). 	 	X	 	 	

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ITEM	INSP CODE		PHASE 1	PHASE	:	INSP SIGN	
1	 2 	3	 4 	 5 	 6 	 7 	 8
5.	 	If you find damage on the flap track fairings or flaps:	; 	 	 	 	
Α.	 	Refer to the allowable damage and repair (Ref. SRM).	 	 X	! 	 	!
		 Examine the bonding leads (on the hinges) of the related damaged flap for breakage and defective attachment. If you find damage: Replace the bonding lead and/or 	 	X 	 x	 	
	 	the defective attachment.		 	^ 	 	!
В.		Do the operational test of the flaps (Ref. 27-54-00, P. Block 501).	 	 X 	 	 	
6.		If you find damage on the flap track fairings or the flaps:	 	 	 	 	
Α.		Refer to the allowable damage and repair (Ref. SRM). - Examine the bonding leads (on the hinges) of the related damaged flap for breakage and defective	 	X X 	 	 	
		<pre>attachment If you find damage: Replace the bonding lead and/or the defective attachment.</pre>	 	 	 X 	 	
В.		Do the operational test of the flaps (Ref. 27-54-00, P. Block 501).	 	x 	 	 	
7.	 	If you find damage on the spoilers:		 	! 	 	
Α.		Refer to the allowable damage and repair (Ref. SRM).		X X	 	 	
		 Examine the bonding leads (on the hinges) of the related damaged spoiler for breakage and defective attachment. If you find damage: 	 	X 	 	 	
		Replace the bonding lead and/or the defective attachment. - Examine the piston rod and the	 	 	 X 	 	

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ITEM	INSP CODE		PHASE 1	PHASE 2		INSP SIGN	: :
1	 2	3	4	5	6	7	8
 		hydraulic connections of each servocontrol (it must be fully extended) of the related damaged spoiler for damage and leaks. If you find a leak or damage: Replace the related spoiler servocontrol (as applicable). Do the operational test of the spoilers (Ref. 27-64-00, P. Block 1).		 X	 	 	
8.		<pre>If you find damage on the anti-collision/strobe:</pre>	 	 		 	
A.		Do the operational test (Ref. 33-48-00, P. Block 501).	 	 	 	 	
9.		If you find damage on the static dischargers of the wing:	! 	 	 	 	
A. 		Do a check of the related static discharger (Ref. 23-60-00, P. Block 601). NOTE : (Ref. CDL 6.03.23 P01): - 2 static dischargers can be missing or defective on each wing.	 	x 		 	

(l)Check after damage on the engine nacelles and pylons

NOTE: If there is damage to the aircraft structure, refer to the allowable damage and repair (Refer to the applicable nacelle SRM).

	INSP CODE		PHASE 1	PHASE 2		INSP SIGN	
1	2	3	4	5	6	7	8
1.	 	If you find damage on the air intake, inlet cowl, the fan cowl, the thrust reverser, exhaust nozzle or the pylon:			 	 	
Α.	 	Refer to the allowable damage and repair (Ref. SRM). - Examine the wing upper and lower	 	X X	 	 	

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ITEM	INSP CODE		PHASE 1	PHASE 2	:	INSP SIGN	: :
1	2	3	4	5	6	 7	8
		surfaces including slats, flaps and spoilers. The width of the area you must examine is at least the same as the width of the nacelle. If you find damage, refer to the allowable damage and repair (Ref. SRM) If you find damage on the thrust reverser: (1) Do an operational test of the (Ref. 78-32-11, P. Block 501).	 	 	 		
**ON A	A/C 2	226-226, 229-249,					
B. 		Do a Operational test of the EEC (Ref. 73-23-00, P. Block 501).	 	x 	 	 	
**ON #	A/C 4	401-401, 404-500,					
B. 		Do a BITE test of the FADEC (Ref. 73-38-00, P. Block 501).	 	X 	 	 	
**ON A	A/C A	ALL					

(m)Check after damage on the stabilizers

<u>NOTE</u>: If there is damage on the composite parts (signs of impacts damaged paintwork, abrasions, delamination or dents), you must do a detailed inspection of the related damaged area for delamination and internal damage. Refer to Non-Destructive Testing Manual (NTM).

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

ITEM	INSP CODE	INSPECTION TASKS	:	PHASE	3	SIGN	FIG	
1	2	3	4	5	6	 7	 8	
1.		If you find damage during the inspection on the skin of the vertical stabilizer and the rudder or their	 	 		 		
	 	stabilizer and the rudder or their tips:	 					

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	INSP CODE		PHASE 1	PHASE 2		INSP SIGN	
1	 2	3		5	6	 7	8
Α.		Do a detailed inspection (Ref. NTM 51-10-09).	X		 	 	
В.		Refer to the allowable damage and repair (Ref. SRM).	 	x	 	 	
C.		Examine all the electrical bonding leads of the rudder hinges and servocontrols for breakage and defective attachment. If you find damage: - Replace the electrical bonding lead and/or the defective attachment.	 	x 	 x 	 	
D.		Examine the piston rod and the hydraulic connections of each rudder servocontrol of the related damaged rudder for damage and leaks. If you find a leak or damage: - Replace the related rudder servocontrol (Ref. 27-24-11, P. Block 401).	 	x 	 x	 	
2.		If you find damage during the inspection of the horizontal stabilizer and elevators:	 			 	
Α.		Refer to the allowable damage and repair (Ref. SRM).	 	x	 	 	
В.		Examine all the electrical bonding leads of the elevator hinges and servocontrols of the related damaged elevator for breakage and defective attachment. If you find damage: - Replace the electrical bonding	 	X 	 X	 	
	 	lead and/or the defective attachment.	 		^ 	 	
C.		Examine the piston rod and the hydraulic connections of each elevator servocontrol (it must be fully extended) of the related damaged elevator for damage and leaks.	 	X 		 	

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ITEM	INSP CODE		PHASE 1	PHASE 2		INSP SIGN	: :
1 1	2	3	4	5	6	7	8
 		If you find a leak or damage: - Replace the related elevator servocontrol (Ref. 27-34-11, P. Block 401).	 	 	X X	 	
D.		Examine the screwjack of the THS actuator for the THS deflection, which must be in full A/C nose up position (10 degrees THS): - Burn marks, damage. If you find damage, replace the THS actuator (Ref. 27-44-11, P. Block 401).	 	x 	X	 	
 3. 		If you find damage on the static dischargers of the vertical and horizontal stabilizer:	 	 		 	
A -		Do a check of the related static discharger (Ref. 23-60-00, P. Block 601). NOTE: (Ref. CDL 6.01.23 P01): - 1 static discharger can be missing or defective on the vertical stabilizer tip zone (including the rudder). - 1 static discharger can be missing or defective on each horizontal stabilizer tip zone (including the elevator).	 	X 			

(n)Check after damage on the APU exhaust

ITEM	INSP CODE		PHASE 1	PHASE 2		INSP SIGN		
1	 2 	3		5	 6 	7 7	 8 	
1. 		If you find damage on the APU exhaust during the inspection:						
A.		Do the operational test of the APU (Ref. 49-00-00, P. Block 501).		X				

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G. Close-Up

- (1)Close access
 - (a)Close the access doors and panels opened during the inspection.
 - (b)Close the nose gear doors (Ref. 32-22-11, P. Block 301).
 - (c)Close the main gear doors (Ref. 32-12-11, P. Block 301).
 - (d)Make sure that the work area is clean and clear of tool(s) and other items.
 - (e)Remove the access platform(s).
 - (f)Remove the warning notice(s).

3. Full Inspection after Lightning Strike

CAUTION: WHEN YOU DO THE FULL INSPECTION:

- IF YOU FIND STRUCTURAL DAMAGE THAT IS THE RESULT OF A LIGHTNING STRIKE, AND
- IF THE SRM SPECIFIES ALLOWABLE DAMAGE LIMITS FOR THAT DAMAGE, THE FLIGHT CYCLE VALUES FOR THE ALLOWABLE DAMAGE LIMITS START FROM THE LIGHTNING STRIKE AND NOT FROM THE END OF THE FULL INSPECTION.

A. General

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- (1)Lightning
 - (a)Lightning always has two or more attachment points (one entry and one exit) on the aircraft skin.
 - (b)Lightning moves back along the surface of the aircraft (swept stroke zone). This can cause a chain of scattered attachment points along a line in the direction of travel of the aircraft.
 - (c)Lightning hits some areas more frequently than others.
- (2)Lightning zones (Ref. Fig. 008) for Full Inspection after Lightning Strike
 - (a) The aircraft is divided into three zones related to the probability of lightning strike:
 - 1 Zone 1:
 - surfaces where there is a high probability of initial lightning attachment (entry or exit).
 - 2 Zone 2:
 - surfaces where there is a high probability of a "swept stroke zone".
 The lightning strike has its initial point of attachment in Zone 1 and moves into Zone 2.
 - 3 Zone 3:
 - this zone includes all of the aircraft surfaces that are not in Zones 1 and 2. In Zone 3 there is a low probability of attachment of a lightning strike. However, high lightning currents can go through Zone 3 by direct conduction between 2 attachment points. Zone 3 currents will also go into Zones 1 and 2.
 - (b)Zones 1 and 2 are divided into A and B areas related to the probability of continued attachment of the arc (hang on). The probability of arc hang on is low in A areas and high in B areas. 1 Zone 1A:
 - area where there is a high probability of initial attachment and low probability of arc hang on, such as the forward-mounted pitot

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probes, the radome diverter strips and the nacelle leading edges.

2 Zone 1B:

 area where there is a high probability of initial attachment and high probability of arc hang on, such as the wing, stabilizers and fin tips and some trailing edge areas.

3 Zone 2A:

 a swept stroke zone with low probability of arc hang on, such as mid-chord regions of the wing surface, aft of an engine and the total fuselage surface.

4 Zone 2B:

 a swept stroke zone with high probability of arc hang on, such as the wing trailing edge aft of Zone 2A.

(3) Effects on the aircraft structure and systems.

There are two types of possible risks to the aircraft:

- indirect effects
- direct effects.

(a)Indirect effects

1 Electromagnetic fields:

 the electromagnetic fields related to the lightning attachment can cause unwanted transient voltages and currents in the aircraft wiring and systems.

In some conditions (low intensity strike, high protection), the effect on the systems can be temporary and the systems can operate correctly again after the strike.

In other conditions (low protection, no circuit protection devices), the damage can be permanent and it will be necessary to replace parts.

(b)Direct effects

The direct effects are the physical damage related to signs such as :

1 Pitting/meltthrough:

- this is the action of the electrical arc formed when a lightning stroke attaches to the aircraft (arc root damage at the attachment points or damage caused by current flow which can also appear far from the attachment points).
- signs of a lightning attachment are pitting and scorch marks and paint discoloration.
 - On composite components, in addition to paint discoloration and skin puncturing, some delamination of the fibers can occur. If there is skin puncturing, there can be damage to the grounded equipment below composite material fairings.
- you must always compare the damage you find with the limits given in the Structural Repair Manual (SRM).

2 Magnetic force:

 the damage usually occurs where a small area causes the density of the current to be high (e.g. a bonding lead installed at a control surface hinge).

3 Resistive heating:

- when lightning currents flow through an aircraft structure, energy is changed to heat along its path.
- resistive heating usually causes marks of the weld type, specially where the lightning current flows for some time.

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- 4 Acoustic shock wave:
 - When a lightning strike occurs there is an acoustic shock wave.
 If the intensity of this shock wave is high, it can cause deformation of thin metal skins or rupture of thin composite skins.
- (4)Inspection requirements:
 - (a)Aircraft are designed to keep the effects of lightning to a minimum and to make sure they can continue their flight and land safely after a lightning attachment.
 - (b)It is not possible to accurately know where the attachment will occur but Zone 1 and Zone 2 show the most probable areas of lightning attachment.
 - (c)Lightning strikes do not always give the same quantity of damage. The quantity of damage comes from the intensity of the lightning strike.
 - (d)Therefore, it is necessary to do a full inspection after a lightning strike to make an estimate of the damage and make sure that the aircraft can, as a minimum, continue service in a Master Minimum Equipment List (MMEL) condition.

The inspection after a lightning strike refers to:

- the type of the system (critical/essential) to specify the tests that are necessary
- the requirements of the MMEL

NOTE: Critical function:

If a critical function fails, it can result in a failure condition that can prevent continued safe flight and landing of the aircraft.

Essential function:

If an essential function fails, it can result in a failure condition which can have an effect on:

- the performance of the aircraft
- or the ability of the flight crew to fly the aircraft in the adverse conditions.
- B. Inspection Preparation
 - (1)Before you start, we recommended that you get information from the crew about the flight condition, through the PFR.
 - (2)All events reported by the crew must be checked in addition/conjunction with this inspection.
- C. Inspection Sequence
 - (1)General
 - (a)If there is damage on the composite parts (signs of impact, damaged paintwork, abrasions, delamination or dents), you must do a detailed inspection of the related damaged area for delamination and internal damage. Refer to Non-Destructive Testing Manual (NTM).
 - (b)If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.
- D. Equipment and Materials

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ITEM	DESIGNATION
A.	Adjustable Access Platform 16 m (52.5 ft.)
В.	Warning Notices
Referenced Procedures	
- 23-11-00, P. Block 501	HF System
- 23-12-00, P. Block 501	VHF System
- 23-60-00, P. Block 601	Static Discharging
- 24-41-00, P. Block 301	AC External Power Control
- 27-14-00, P. Block 501	Hydraulic Action - Aileron
- 27-14-12, P. Block 401	Servo Control - All Speed Aileron
- 27-24-00, P. Block 501	Hydraulic Actuation - Rudder
- 27-24-11, P. Block 401	Servo Control - Rudder
- 27-34-00, P. Block 501	Hydraulic Actuation - Elevator
- 27-34-11, P. Block 401	Servo Control - Elevator
- 27-44-00, P. Block 501	Hydraulic Actuation - THS
- 27-50-00, P. Block 301	Flaps
- 27-54-00, P. Block 501	Hydraulic Actuation and Power Transmission -
- 27-60-00, P. Block 301	Flaps Spoilers and Speedbrakes
- 27-64-00, P. Block 1	Hydraulic Actuation - Spoilers and Speedbrake
- 27-80-00, P. Block 301	Lift Augmenting
- 27-84-00, P. Block 501	Hydraulic Actuation and Power Transmission -
21 04 00, F. Brock 301	Slats
- 29-10-00, P. Block 301	Main Hydraulic Power
- 30-31-00, P. Block 501	Probe Ice Protection
- 30-42-00, P. Block 501	Windshield Panel Anti Icing and Defogging
- 30-71-00, P. Block 501	Drain Mast Ice Protection
- 30-81-00, P. Block 501	Ice Detection
- 31-51-00, P. Block 501	ECAM System
- 32-10-00, P. Block 601	Main Gear and Doors
- 32-12-11, P. Block 301	Door - Main Gear Main
- 32-20-00, P. Block 601	Nose Gear and Doors
- 32-22-11, P. Block 301	Door - Nose Gear Main
- 32-31-00, P. Block 501	Normal Extension and Retraction
- 32-42-00, P. Block 501	Normal Braking
- 32-43-00, P. Block 501	Alternate Braking
- 32-51-00, P. Block 501	Steering
- 32-61-00, P. Block 501	Indicating and Warning
- 33-41-00, P. Block 501	Navigation Lights
- 33-42-00, P. Block 501	Landing Lights
- 33-43-00, P. Block 501	Runway Trunoff Lights
- 33-41-00, P. Block 501	Lights Logo
- 33-48-00, P. Block 501	Anti-Collision Lighting
- 33-49-00, P. Block 501	Wing and Engine Scan Lightning
- 34-10-00, P. Block 501	Flight Environment Data
- 34-11-15, P. Block 401	Probe - Pitot
- 34-11-18, P. Block 401	Probe - Total Air Temperature
- 34-11-19, P. Block 401	Probe - Alpha
- 34-28-00, P. Block 501	Heading Information - Switching and

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ITEM	DESIGNATION
- 34-33-00, P. Block 501 - 34-36-00, P. Block 501 - 34-41-00, P. Block 501 - 34-41-11, P. Block 401 - 34-42-00, P. Block 501	Indicating Marker Beacon System ILS Weather Radar System Antenna - Assembly Weather Radar Radio Altimeter
- 34-44-00, P. Block 501 - 34-48-00, P. Block 501 - 34-51-00, P. Block 501 - 34-52-00, P. Block 501 - 34-53-00, P. Block 501 - 34-55-00, P. Block 501 - 49-00-00, P. Block 501 - 53-10-61, P. Block 601 - 55-32-11, P. Block 401 - 55-34-11, P. Block 401 - 56-11-11, P. Block 601	Traffic Collision Avoidance System Ground Proximity Warning System DME ATC ADF VOR Airborne Auxiliary Power - General Radome Leading Edge - Vertical Stabilizer Tip - Vertical Stabilizer Windshield Panels
- 56-11-12, P. Block 601 - 56-12-11, P. Block 601	Window Panels - Fixed Side Window Panels - Sliding Side
**ON A/C 226-226, 229-249, - 73-23-00, P. Block 501 - 78-32-11, P. Block 501 **ON A/C 401-401, 404-500,	Engine Electronic Control Thrust Reverser Translating Sleeves
- 73-38-00, P. Block 501 - 78-32-11, P. Block 501 **ON A/C ALL	FADEC System Indicating Thrust Reverser Translating Sleeves
<pre>(2)Aircraft Maintenance Conf (a)Connect electrical grou electrical network (Ref (b)Open the MLG doors and P. Block 301). (c)Open the NLG doors and P. Block 301). (d)Extend the flaps (Ref. (e)Extend the spoilers and</pre>	nd power unit and energize the aircraft . 24-41-00, P. Block 301). install the safety devices (Ref. 32-12-11, install the safety devices (Ref. 32-22-11, 27-50-00, P. Block 301).

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operational use of the flap and slat systems.

- (h)Depressurize Green hydraulic system and disconnect hydraulic ground power cart.
- (j)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (k)Put the adjustable access platform in position.
- F. Inspection after Lightning Strike
 - (1)Inspection of the total surface of the aircraft.

(Ref. Fig. 009)

 $\underline{{\tt NOTE}}$: All the necessary inspections are visual unless the text gives other instructions.

Operators can refer to the Non-destructive Testing Manual (NTM) and use non-destructive procedures.

ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2	PHASE 3	INSP SIGN	: :
1	2	3	4	5	6		8
1.	 	Inspection of the Radome				 -	
A. 		Examine visually the radome external skin and the lightning diverters for burn marks, change of color, puncturing and other damage.	X 				
B. 		Examine the access door 121AL (glide/slope antenna access) for burn marks, puncturing and other damage.	X				
2.		Inspection of the Windshield, Fixed Windows, Sliding Windows and Window Frames.					
A. 		Examine visually the windshield, fixed windows, sliding windows and the window frames for burn marks, change of color and other damage.	X				
3. 	 	Inspection of the Nose and Main Landing Gear Doors.				 	
A. 		Examine the skin of the nose and the main landing gear doors for burn marks, change of color, puncturing and delamination.	X 				
B. 		Examine the electrical bonding leads for breakage and defective attachment.	X			 	
4.		Inspection of the Nose and the Main	i i			İ	i i

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ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2		INSP SIGN	
1	 2 	3	 4	 5 	 6	 7	 8
		Landing Gears.	 	 	 	 	
		NOTE: Do these checks if the lightning strike occurred. - when the LG was extended and locked down, - during the extension of the LG and when you find a through hole during the inspection of the landing gears doors.	 		 	 	
Α.		Examine the nose landing gear and the main landing gear: (1) Examine the LG structure and the points where it is attached for change of color, burn marks and other damage. (2) Examine the shock absorber for change of color and burn marks.	x 		 	 	
		change of color and burn marks. (3) Examine all the components attached to the landing gear and fully examine the electrical looms and components for a change of color and burn marks.			 	 	
5.	 	Inspection of the Wing-to-fuselage Fairings	 	 	 	 	
Α.	 	Examine the wing-to-fuselage fairings for change of color, burn marks, puncturing and delamination.	x		 	; 	
	 	Examine fairing screws and fasteners for burn marks.	X 	 	 	 	
6.	 	Inspection of the Fuselage			 	 	
Α.		Externally examine all of the fuselage skin including rivets and screws for change of color, burns marks and small holes.	x 		 	 	
В.		Examine all the probes, sensors and drain masts and adjacent area for burn marks and change of color.	x 	 	 	 	
С.	 	Examine carefully all the	 X				

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ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2	:	INSP SIGN	
1	 2 	3	 4	5	 6	 7 	8
		communication and navigation antennas and the adjacent area for burn marks, change of color, puncturing and delamination.			 	 	
D.		Examine all exterior lights and adjacent area for burn marks and other damage.	X X 		 	 	
Ε.		Examine the APU exhaust for burn marks and change of color.	x		 	 	
7.	 	Inspection of the Wings	 		 	 	
Α.		Examine the top and bottom skin of the wings and the leading and trailing edges for burn marks, change of color.	X		 	 	
В.		Examine the slats for burn marks and damage.	x 		 	 	
C.		Examine the flap track fairings for burn marks, change of color, puncturing and other damage.	X X		 	 	
D.		Examine the flaps for burn marks, change of color, puncturing and delamination.	x 		 	 	
Ε.		Examine the spoilers for burn marks, change of color, puncturing and delamination.	x x		 	 	
F.		Examine the ailerons for burn marks, change of color, puncturing and delamination.	X X 		 	 	
G.	 	Examine all the static dischargers for burn marks, damaged tip and breakage.	X		 	 	
Н.		Examine the wing tip for burn marks and burn holes.	X X		 	 	
I.		Examine the lights on the wing tip for burn marks and other damage.	X		 	 	!

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	INSP CODE		PHASE 1	PHASE		INSP SIGN	
1	 2	3		5	6	 7	
8		Inspection of the Engine Nacelles and the Pylons.	 	 	 	 	
A. 		Examine each air intake, inlet cowl, fan cowl, thrust reverser, exhaust nozzle and the pylon for burn marks, change of color, puncturing and delamination.	x 	 	 	 	
 9. 	, , 	Inspection of the Vertical Stabilizer	 	! 	 	 	
 A. 		Examine all the static dischargers for burn marks, damaged tip and breakage.	x 	 	 	 	
B. 		Examine the skin of the vertical stabilizer and the rudder (specially the leading and the trailing edges, the rudder surface in the hinge area and the antenna fairings), the fin tip cap, the fin and rudder tip cap lightning diverters for burn marks, change of color, puncturing, delamination and other damage.	x 		 	 	
 10. 	 	Inspection of the Horizontal Stabilizer	 	 	 	 	
 A. 	 	Examine all the static dischargers for burn marks, damaged tip and breakage.	 X 	 	 	 	
 B. 		Examine the skin of the horizontal stabilizer and elevators (specially the leading and the trailing edges, the elevator surface in the hinge area and the tip) for burn marks, change of color, puncturing,	X 	 	 	 	
 11. 	 	Inspection of the ECAM	 	 	 	 	1
 A. 	ı 	Do a test of the SDAC (Ref. 31-51-00, P. Block 501).	 X 	 	 	 	

(2)Operational test of the HF system

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-		INSP		PHASE 1 	2	3	SIGN	FIG.	ĺ
	1	2 2	•	4		•	•		•
	A. 		Do the operational test of the HF system (Ref. 23-11-00, P. Block 501).	X					

(3)Check after Damage on the Radome

	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE	PHASE	INSP SIGN	
1	 2	3	4	5	6	 7	 8
A. 	 	<pre>If you find damage during the inspection: (1) Do the detailed inspection of the radome:</pre>	 	 X	 	 	
	 	 (Ref. 53-10-61, P. Block 601) If you find a through hole: (a) Examine the weather radar and the WR antenna drive for burn marks, pitting and other damage. 	 		 x 	 	
		<pre>If you find damage: - if you find damage on the flat plate antenna, replace it : (Ref. 34-41-11,</pre>	 		 x 	 	
		 P. Block 401) do the operational test and the system test of the weather radar: (Ref. 34-41-00, P. Block 501) 	 	 	 X 	 	
		(b) Examine the localizer antenna for burn marks, pitting and other damage.	 	 	 x 	 	
B.		If you find a through hole on the access door 121AL (glide/slope antenna access):	 	X 	 	 	
 	 	(1) Examine the glide/slope antenna for sign of arc attachment.	 	 	X 	 	
C.		If you find damage on the localizer antenna and/or the glide/slope antenna: (1) Do the functional test of the ILS:	 		 	 	
		(Ref. 34-36-00, P. Block 501). NOTE: If an ILS ground test unit is	 	 	 	 	

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- 		INSP CODE		PHASE 1	2	3	SIGN	FIG.	
	1	2	3	4		6		!!	
		 	not available, do an operational test of the ILS (Ref. 34-36-00, P. Block 501)		 	 	 		

(4)Check after Damage on the Windshield, Fixed Windows, Sliding Windows and

the Window Frames

ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2	:		REF.	:
1	2	3	 4	5	6	 7	8	
 1. 		If you find damage during the inspection: (1) Do the inspection of the related component: - for the windshield (Ref. 56-11-11, P. Block 601) - for the fixed windows (Ref. 56-11-12, P. Block 601) - for the sliding windows (Ref. 56-12-11, P. Block 601) (2) Do the operational test of the windshield anti icing and defogging (Ref. 30-42-00, P. Block 501) (3) Do the operational test of the	 	x x	 			
	 	standby compass (Ref. 34-28-00, P. Block 501)	 		 			

(5)Check after Damage on the Nose and/or the Main Landing Gear Doors

NOTE: If there is damage to the aircraft structure, refer to the
Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

_									_
ا		INSP		-	PHASE				-
		CODE		1	2	3	SIGN	FIG.	ı
ĺ		I I		l	l		l	1	ĺ
 			7			,	! ! -7		1
١	1	2	3	4) >	6		8	ı
									1
j	Α.	i i	If you find damage during the	İ	İ			İ	ĺ
			inspection:						
			(1) Refer to allowable damage and		X			1	1
١			repair (Ref. SRM).						l

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ITEM 	INSP CODE		PHASE 1 	PHASE	PHASE	-	-
1	2	3	4	5	6	7	8
 		<pre>(2) If you find a through hole: - examine internally the adjacent and underneath area including all the components (pipes, items of equipment, electrical harnesses) for damage, if you find damage: - replace or repair the related component.</pre>		X	x	 - 	
 B. 	 	If you find damage on the electrical bonding leads during the inspection:	 	 		 	
	 	(1) Replace the electrical bonding lead and/or the defective attachment.		X		 	

(6)Check after Damage on the Nose and/or the Main Landing Gear

	ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE	PHASE 3	INSP SIGN	-	•
	1	2	3	4	5	6	 7	8	
	A. 		If you find damage on the nose and/or the main landing gear during the inspection:	 	 	 	 		
R	i	i i	(1) Contact Airbus.	İ	X	İ	İ		İ
R	ĺ	İ	(2) Do the inspection of the LG:	İ	ĺ	ĺ	ĺ		ĺ
			(a) For the NLG:		X			1	
			(Ref. 32-20-00, P. Block 601).					1	ļ
	!		(b) For the MLG:	!	X	<u> </u>		!	ļ
_	ļ		(Ref. 32-10-00, P. Block 601).	ļ				!	ļ
R			(3) Do an operational test of landing		X			!	ļ
		 	gear extension and retraction		 -	 -	 	1	ŀ
R	 	 	(Ref. 32-31-00, P. Block 501).	 	 X	 	 	i I	l
ĸ	i i	l I I I	(4) Do an operational test of indicating and warning system	I I	^	I I	l I	İ	ŀ
	i	 	(Ref. 32-61-00, P. Block 501).	i I	! 	! 	! 	İ	i
R	i	' ' 	(5) Do an operational test of the	i	ı L	! 	i	İ	i
••	i	i i	normal and alternate braking	i	~		İ	İ	i
	İ	i i	(Ref. 32-42-00, P. Block 501)	İ	İ	İ	İ	İ	i
	ĺ	İ	(Ref. 32-43-00, P. Block 501).	İ			ĺ	ĺ	İ
R			(6) Do an operational test of the		X				
			Steering system					1	
			(Ref. 32-51-00, P. Block 501).					1	

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	INSP		1	2	PHASE 3	SIGN	FIG.
 1 		3	 4 	 5 	 6 	 7 	 8
 		If you find damage on the components attached to the landing gear:	 	 	 	 	
 		(1) Contact Airbus.(2) Examine the electrical components		X X	 	 	
		internally.					

(7)Check after Damage on the Wing-to-fuselage Fairings

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2	PHASE 3	INSP SIGN		
1	2	3	4	5	6	7	8	
 A. 	 	If you find damage during the inspection: (1) Refer to the allowable damage and	 	 X	 	 	 	
		repair (Ref. SRM). (2) If you find a through hole: (a) Get access internally and examine the adjacent and	 	 X 	 	 	 	
 	 	underneath area to do a check of all the components (pipes, items of equipment, electrical	 	 	 -	 	 	
 	 	harnesses) for damage.If you find damage:replace or repair the related component.	 	 	 X	 	 	

(8)Check after damage on the Probes and Sensors

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

ITEM INSF	İ		PHASE	3	SIGN	FIG.	
1 2	3	 4	5	6	7	8	
	Pitot probes (1) If you find damage during the	 	 	 			1

	•	•	•	•	•	•	
F							ΛE
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ITEM	INSP CODE		PHASE 1	PHASE 2			REF. FIG.
1	 2 	3	 4 	 5	 6	 7 	 8
		inspection: (a) Replace the pitot probes (Ref. 34-11-15, P. Block 401). (b) If you find damage on the adjacent area: - refer to the allowable		 X X		 	
	 	damage and repair (Ref. SRM).				 -	
B.		Static probes (1) If you find damage during the inspection: (a) Refer to allowable damage and repair (Ref. SRM).	 	 		 	
С.		TAT sensors (1) If you find damage during the inspection: (a) Replace the TAT sensors		 X		 	
		(Ref. 34-11-18, P. Block 401). (b) If you find damage on the adjacent area: - refer to the allowable damage and repair (Ref. SRM).	 	 X 	 	 	
D.	 	ALPHA probes (1) If you find damage during the inspection:	 	 	 	 	
	 	(a) Replace the ALPHA probes(Ref. 34-11-19, P. Block 401).(b) If you find damage on the		x 		 	
	 	adjacent area: - refer to the allowable damage and repair (Ref. SRM)	 	 X 	 	 	
Ε.		If you find damage on ALPHA, TAT, static or pitot probes: (1) Do the operational test of the probe ice protection system		 X		 	
	 	(Ref. 30-31-00, P. Block 501). (2) Do the ADS switching test (Ref. 34-10-00, P. Block 501).		 X 		 	
F.		Ice detection probe (1) If you find damage during the inspection: (a) Do the operational test of the	 	 X	 	 	

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IT	:	INSP CODE	INSPECTION TASKS	1	PHASE	3	SIGN	FIG.
1	I I	 2 	3	4		6	7	8
	 		ice detection system (Ref. 30-81-00, P. Block 501).	 			 	
i	G.		Drain masts	i I			! 	
ļ	ļ		(1) If you find damage during the					
			inspection:					
			(a) Do the operational test of the		X			
			drain mast ice protection					
	ĺ		(Ref. 30-71-00, P. Block 501).					

(9)Check after Damage on the Exterior Lights

ITEN	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE	PHASE		REF.	:
1	2	3	 4	5	6	 7		
 A. 		If you find damage on exterior lights: (1) Do the operational test of the related system: (a) For the navigation lights: (Ref. 33-41-00, P. Block 501). (b) For the landing lights: (Ref. 33-42-00, P. Block 501). (c) For the logo lights: (Ref. 33-47-00, P. Block 501). (d) For the anti-collision/strobe lightning: (Ref. 33-48-00, P. Block 501). (e) For the wing and engine scan lightning: (Ref. 33-49-00, P. Block 501). (f) For the runway turnoff lightning: (Ref. 33-43-00, P. Block 501).		 X X 				

(10) Not Applicable

(11)Check after Damage on the Communication Antennas

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

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ITEM 	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE	-	INSP SIGN	•
	2	3	4	5	6	 7	 8
	 	VHF antennas (1) If you find damage during the inspection:	 	 	 	 	
 		(a) Do the operational test of the VHF system (Ref. 23-12-00, P. Block 501).	 	X 		 	
 		(b) If the operational test is OK, you must replace the VHF antenna in a number of cycles equal to or less than 50 FC.		x 		 	;
		(c) If test is not OK, do a BITE test.	 	 X 		 	!
 	į Į	 Replace the damaged component. 	 		x	 	
B. B.		HF fairing (1) If you find damage on the HF	 	 	 	 	
 	 	<pre>fairing: - refer to allowable damage and repair (Ref. SRM)</pre>	 	 X 	 	 	
	İ	(2) If you find a through hole on the HF fairing during the inspection:	<u> </u> 			 	
		(a) Remove the HF fairing (Ref. 55-32-11, P. Block 401)		X 		 	
	 	(b) Examine the HF antenna for signs of arc attachment		X 		 	
 		(c) Do the operational test of the HF system (Ref. 23-11-00, P. Block 501)	 	X 	 	 	

(12) Check after Damage on the Navigation Antennas

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

ITEM	 INSP	INSPECTION TASKS	PHASE	PHASE	PHASE	INSP	 REF
	CODE		1	2	3	SIGN	FIG.
		3	 4	 5	6	 7	 8
A.	 	DME antennas (1) If you find damage during the	 	 		 	
		inspection: - do the operational test of the		 X		 	

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ITEM	INSP CODE		PHASE 1	PHASE	:	INSP SIGN	
1	 2 	3		 5	 6	 7 	
		(Ref. 34-51-00, P. Block 501).			 	 	
В.		Radio altimeter antennas (1) If you find damage during the inspection: - do the BITE test of the radio altimeter (Ref. 34-42-00, P. Block 501).		 X 	 	 	
C.		ADF antenna(s) (1) If you find a through hole during the inspection: - do the operational test of the ADF (Ref. 34-53-00, P. Block 501).		 X 	 	 	
D.		ATC antenna(s) (1) If you find damage during the inspection: - do the BITE test of the ATC (Ref. 34-52-00, P. Block 501).	 	 x	 	 	
Ε.		TCAS antennas, if installed. (1) If you find damage during the inspection: - do the BITE test of the TCAS (Ref. 34-44-00, P. Block 501).		 X	 	 	
F.		Not Applicable.	 	 	! 	! 	!
G.		VOR/MKR antennas (1) If you find damage on the fin tip cap (VOR fairing): - refer to allowable damage and repair (Ref. SRM). If you find a through hole on the fin tip cap:		 X 	 	 	
	, , 	- remove the fin tip cap (Ref. 55-34-11, P. Block 401)	 	 X 	 	 	
	 	 examine the VOR antenna for signs of arc attachment 		X	 	 	
	 	 do the operational test of the VOR system (Ref. 34-55-00, P. Block 501). 	 	X 	 	 	
	 	(2) If you find damage on the MKR antenna:	 	 	 	 	

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-									_
	ITEM	INSP	INSPECTION TASKS	PHASE	PHASE	PHASE	INSP	REF.	
-		CODE		1	2	3	SIGN	FIG.	
ĺ		i i							ĺ
i	1	i 2 i	3	4	5	6	7	i 8	i
i		i i						i	i
i		i i	- do the operational test of the	İ	X			į	İ
ĺ		į į	MKR system					ĺ	ĺ
			(Ref. 34-33-00, P. Block 501).						
-									
	н.		GPWS system						
			(1) If you find damage on the radio						
			altimeter (1) antennas and/or ILS						
			<pre>antennas (glide and/or localizer):</pre>						
			- do the operational test of the		X				
			GPWS						
			(Ref. 34-48-00, P. Block 501).						

(13) Check after Damage on the Fuselage Skin

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE		-	REF.	-
	 2	3	4	5	6	 7	 8	
A -		If you find damage during the inspection: (1) Refer to the flow chart for the allowable damage and repair (Ref. SRM). (2) If you find a through hole: (a) Examine internally the adjacent area of the damage		x x		 		
		<pre>specially the components, the pipes and the electrical looms for damage. If you find damage: - repair or replace the related component.</pre>			X	 		

(14) Check of the APU after Damage on the APU Exhaust

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ITEM INSP CODE		: :		PHASE	PHASE 2				-
i		005						:	i
ı							l		l
	1	2	3	4	5	6	7	8	
i				i		i			1
- !				!					1
	Α.		If you find damage on the APU exhaust						
			during the inspection:						
			(1) Do the operational test of the		X				
			APU						
-			(Ref. 49-00-00, P. Block 501).		l				

(15) Check after Damage on the Wings

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage Limits and repair procedures.

ITEM	INSP CODE		PHASE 1	PHASE		INSP SIGN	
1	 2	3		5	6	 7	8
A.		If you find damage on the top or bottom of the wings: (1) Refer to allowable damage and repair (Ref. SRM).	 	 X	 	 	
В.	 	If you find damage on the slats: (1) Refer to allowable damage and repair (Ref. SRM).	 	 X	 	 	
		(2) Do the operational test of the slats (Ref. 27-84-00, P. Block 501).	 	x 		 	
C.		If you find damage on the flap track fairings: (1) Refer to allowable damage and repair (Ref. SRM).	 	 X		 	
D.	 	If you find damage on the flaps: (1) Refer to allowable damage and repair (Ref. SRM).	 	 X 	 	 	
		<pre>(2) Examine the bonding leads (on the hinges) of the related damaged flap for breakage and defective attachment. If you find damage: - replace the bonding lead and/or the defective attachment.</pre>	 	X 	 X		
	 	(3) Do the operational test of the flaps	 	 x 	 	 	

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ITEM	INSP CODE		PHASE 1	PHASE 2	:	INSP SIGN	
1	2	3	4	5	6	 7	 8
	 	(Ref. 27-54-00, P. Block 501).		 			
Ε.	 	<pre>If you find damage on the spoilers: (1) Refer to allowable damage and repair (Ref. SRM).</pre>	 	 X	 	 	
	 	(2) Examine the bonding leads (on the hinges) of the related damaged spoiler for breakage and defective attachment.	 	X 	 	 	
	 	<pre>If you find damage: - replace the bonding lead and/or the defective attachment.</pre>	 	 	 X 	 	
	 	(3) Do the operational test of the spoilers (Ref. 27-64-00, P. Block 1)	 	X 	 	 	
F.	 	<pre>If you find damage on the ailerons: (1) Refer to allowable damage and repair (Ref. SRM)</pre>	 	 X	 	 	
		(2) Examine all the bonding leads of the aileron hinges and servocontrols of the related damaged aileron for breakage and defective attachment.	 	X 	 	 	
	 	<pre>If you find damage: - replace the bonding lead and/or the defective attachment (3) At the first return to the main</pre>	 	 X	 X 	 	
		base, examine the piston rod of each servocontrol (it must be fully extended) of the related damaged aileron for burn marks, damage and make sure that there are no leaks.	 	^ 	 	 	
		 (a) replace the related aileron servocontrol (Ref. 27-14-12, P. Block 401). (4) Do the operational test of the 	 	 X	x 	 	
		servocontrol (Ref. 27-14-12, P. Block 401).	 	 X	 X 	 	

(16) Check after Damage on the Engine Nacelles and Pylons
NOTE: If there is damage to the aircraft structure, refer to the allowable damage and repair (Refer to the applicable nacelle)

EFFECTIVITY: ALL

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SRM).

	INSP CODE		PHASE 1	PHASE 2			REF.
1	2	3	4	5	6	7	8
A		If you find damage on the air intake, inlet cowl, fan cowl, thrust reverser, exhaust nozzle or the pylon: (1) Refer to the allowable damage and repair (Ref. SRM). (2) If you find damage on the thrust reverser: (a) Do an operational test of the thrust reverser system. (Ref. 78-32-11, P. Block 501) (3) If you find a through hole on the fan cowl:		x x			
		(a) Do a ground test of the FADEC		x			
		(Ref. 73-38-00, P. Block 501).					
**ON /	A/C 2	226-226, 229-249,					
 	 	(a) Do the operational test of the EEC (Ref. 73-23-00, P. Block 501).	 	X	 		
**ON /	A/C A	ALL					

(17) Check after Damage on the Stabilizers

<u>NOTE</u>: If there is damage on the composite parts (signs of impacts damaged paintwork, abrasions, delamination or dents), you must do a detailed inspection of the related damaged area for delamination and internal damage. Refer to Non-Destructive Testing Manual (NTM).

NOTE: If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

ITEM INSP CODE		PHASE 1	-	-			
1 2	3		_	6 6		_	
	If you find damage during the inspection on the skin of the vertical		 	 	 	 	

EFFECTIVITY: ALL

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[TEM 	INSP CODE		PHASE 1	PHASE 2	-	INSP SIGN	
1	 2 	3	4	5	 6	 7	8
		stabilizer and the rudder, the fin					
		tip cap, the fin and rudder, tip cap					
		lightning diverters:					
		(1) Do a detailed inspection	X				
		(Ref. NTM 51-10-09).	ļ				
		(2) Refer to allowable damage and	ļ	Х			
		repair (Ref. SRM).					
		(3) Examine all the electrical bonding		Х			
		leads of the rudder hinges and					
		servocontrols for breakage and			 		
	 	defective attachment.] 	 	
	 	If you find damage:			 v]]
	 	(a) replace the electrical bonding lead and/or the defective	I I		X	 	l I
	 	attachment] 		l I	 	
	 	(4) At the first return to the main	I I	X	 	 	
	 	base, examine the piston rod of	I I	^	l I	l I	
	I I I I	each rudder servocontrol (it must	i i		l I	l I	l
	I I I I	be fully extended) for damage and	I I		l 	 	l I
	! ! 	burn marks and make sure that	 		l 	 	
	! ! 	there are no leaks.	i I		! 	! 	
	! ! 	If you find a leak or damage:	İ		! 	! 	
	' ' 	- replace the related rudder	İ		X		
		servocontrol	İ		^		
	i i	(Ref. 27-24-11, P. Block 401).	İ		i I	i	
	i i	(5) Do an operational test of the	İ	X	! 	i	
	i i	rudder	i		İ	İ	
		(Ref. 27-24-00, P. Block 501).			 		
B.	 	If you find damage during the			 	 	
		inspection of the horizontal					
		stabilizer and elevators:					
		(1) Refer to allowable damage and	ļ	Х			
		repair (Ref. SRM).	ļ				
		(2) Examine all the electrical bonding	ļ	Х			
		leads of the elevator hinges and					
		servocontrols of the related					
		damaged elevator for breakage and					
	 	defective attachment.] 	 	
	 	If you find damage:	1		 v	l I	l I
	 	(a) replace the electrical bonding	1		X	l I	l I
	 	<pre>lead and/or the defective attachment.</pre>	1		l I	l I	l I
	 	(3) At the first return to the main	1	X	l I	 	l I
	ı 	base, examine the piston rod of	I 	. ^	! 	 	l
	!!!	each elevator servocontrol (it	!	l	l	l	l

EFFECTIVITY: ALL

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ITEM 	INSP		INSPECTION TASK	S	PHASE	PHASE 2		INSP SIGN	-	-
1	2		3		4	5	6	7	8	
 	 	related marks, there a If you (a) rep sen	e fully extended damaged elevated damage and maked are no leaks. find a leak or olace the related vocontrolef. 27-34-11, P.	or for burn sure that damage: d elevator			x	 -	 	
			operational test	of the		X				ļ
	 	elevato	=						 	1
	ı 		2 7-34-00, P. B lo operational test			X			! 	1
İ	į į		27-44-00, P. Blo							İ

(18) Check after Damage on the Static Dischargers

ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2		INSP SIGN		
1	2	3	4	5	6	 7	8	
A -		If you find damage on the static dischargers of the wing or vertical and horizontal stabilizer. (1) Do a check of the related static discharger (Ref. 23-60-00, P. Block 601) NOTE: (Ref. CDL 6.03.23 P01): - 2 static dischargers can be missing or defective on each wing. - 1 static discharger can be missing or defective on vertical stabilizer tip zone (including the rudder). - 1 static discharger can be missing or defective on each horizontal stabilizer tip zone		х		 	 	
		(including the elevator).						

G. Close-Up

(1)Close Access

EFFECTIVITY: ALL	
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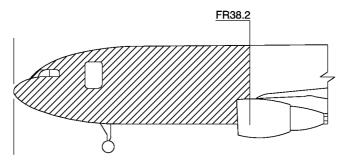
AIRCRAFT MAINTENANCE MANUAL

- (a)Close the access doors and panels opened during the inspection.
- (b)Close the nose gear doors (Ref. 32-22-11, P. Block 301). (c)Close the main gear doors (Ref. 32-12-11, P. Block 301).
- (d)Make sure that the work area is clean and clear of tool(s) and other items.
- (e)Remove the access platform(s).
- (f)Remove the warning notice(s).

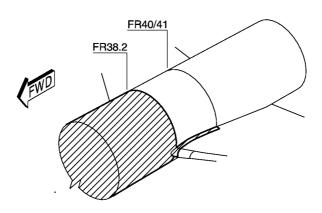
EFFECTIVITY: ALL

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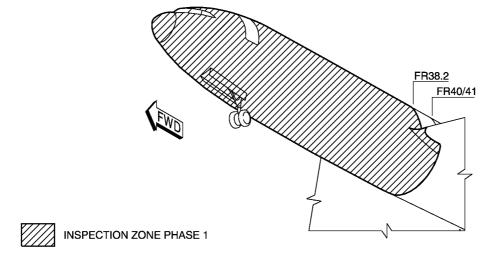
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INSPECTION OF THE FORWARD FUSELAGE



INSPECTION OF THE BELLY FAIRING-TO-FUSELAGE JUNCTION



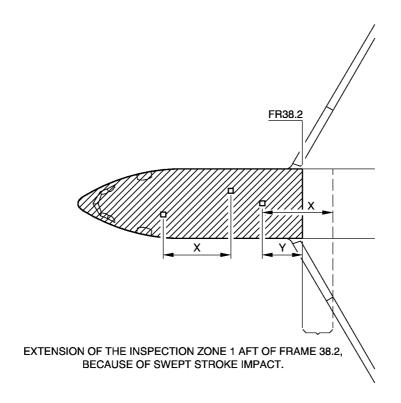
Inspection Zone 1 Figure 001

EFFECTIVITY: ALL

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NOTE: IF X > Y CONTINUE THE INSPECTION BY THE DISTANCE X AFT FROM THE LAST IMPACT.

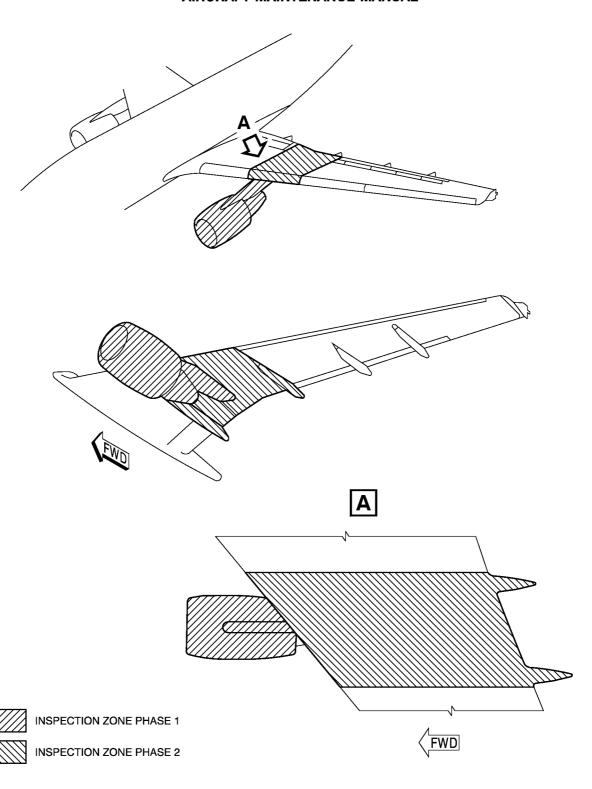


Example of Swept Stroke on Zone 1 Figure 002

EFFECTIVITY: ALL

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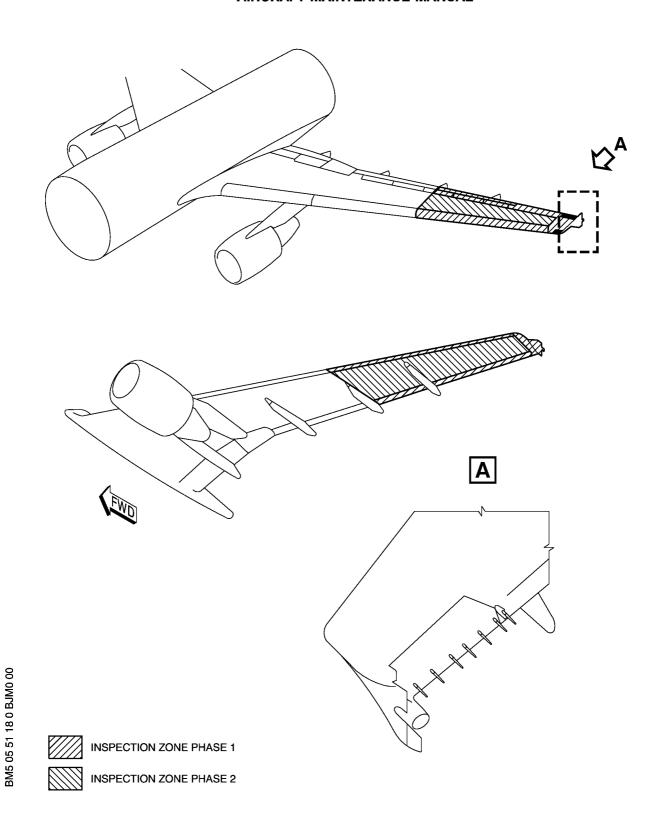


Inspection Zone 2 Figure 003

EFFECTIVITY: ALL

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Inspection Zone 3 Figure 004

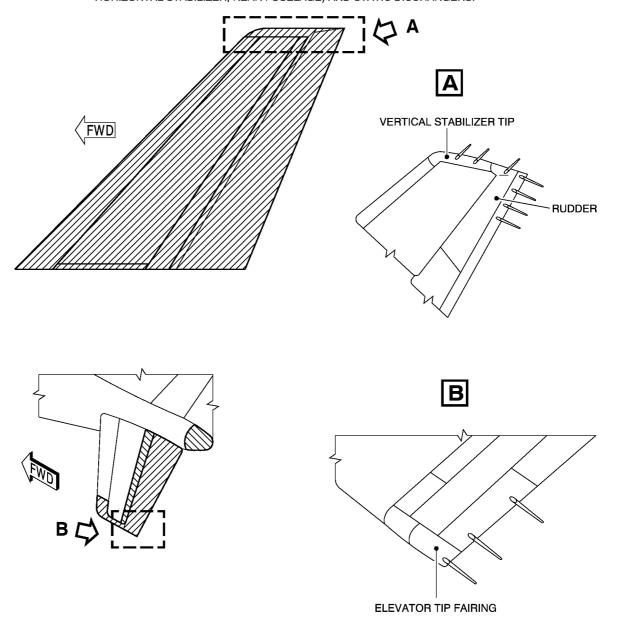
EFFECTIVITY: ALL

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INSPECTION OF THE REAR SECTION OF THE AIRCRAFT (VERTICAL STABILIZER, HORIZONTAL STABILIZER, REAR FUSELAGE) AND STATIC DISCHARGERS.



NOTE: IF YOU FIND DAMAGE IN THE INSPECTION ZONE PHASE 1, INCREASE THE INSPECTION AREA TO THE INSPECTION ZONE PHASE 2.



INSPECTION ZONE PHASE 1



INSPECTION ZONE PHASE 2

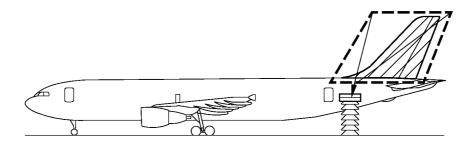
Inspection Zone 4
Figure 005

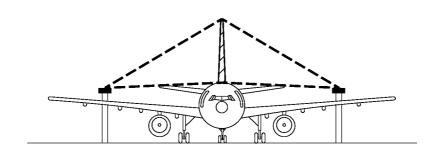
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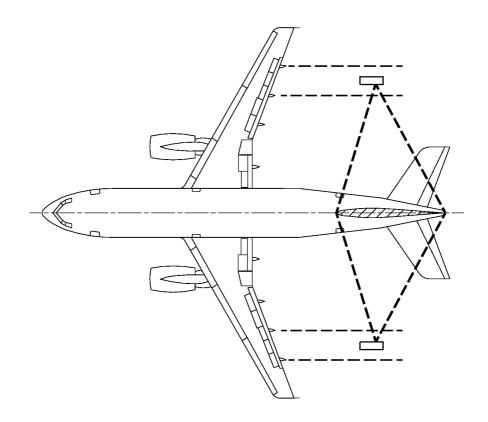
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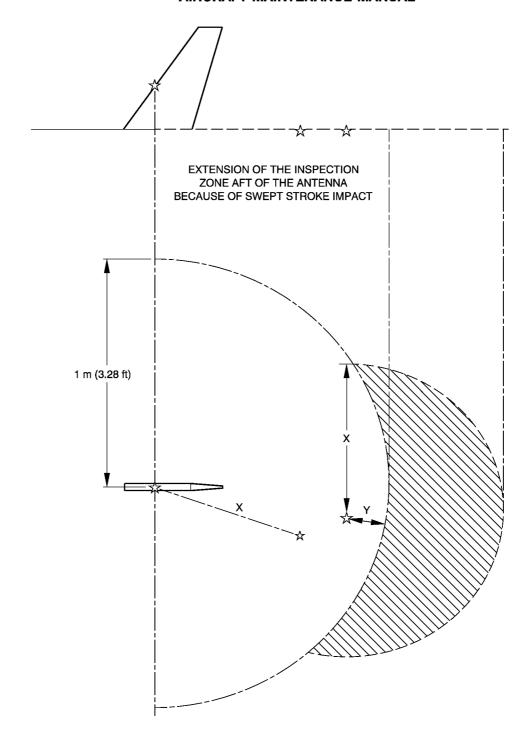


Binocular Examinations Figure 006

EFFECTIVITY: ALL

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NOTE: IF X>Y CONTINUE THE INSPECTION BY THE DISTANCE X RADIUS AFT FROM THE LAST IMPACT.

Example of Swept Stroke Antenna Figure 007

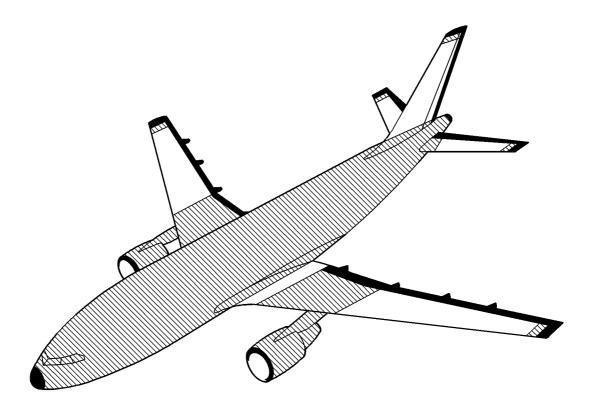
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ZONE 1 : AREAS WHERE DAMAGE MOST PROBABLE

ZONE 2 : AREAS WHERE DAMAGE PROBABLE

ZONE 3 : AREAS WHERE DAMAGE LEAST PROBABLE

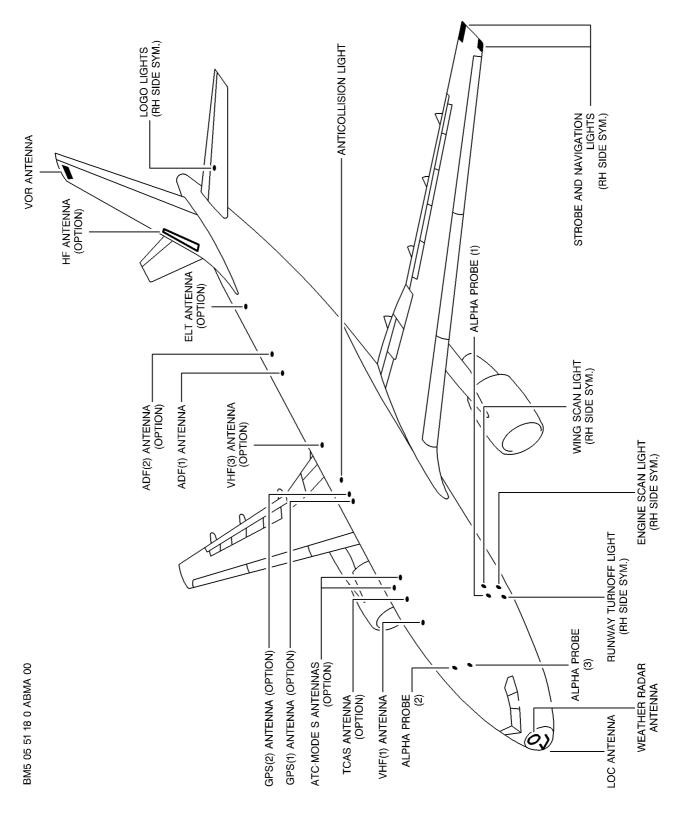
Lightning Strike Inspection Areas Figure 008

EFFECTIVITY: ALL

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Location of the Antennas, Probes and Sensors and Exterior Lights (Sheet 1/2)
Figure 009

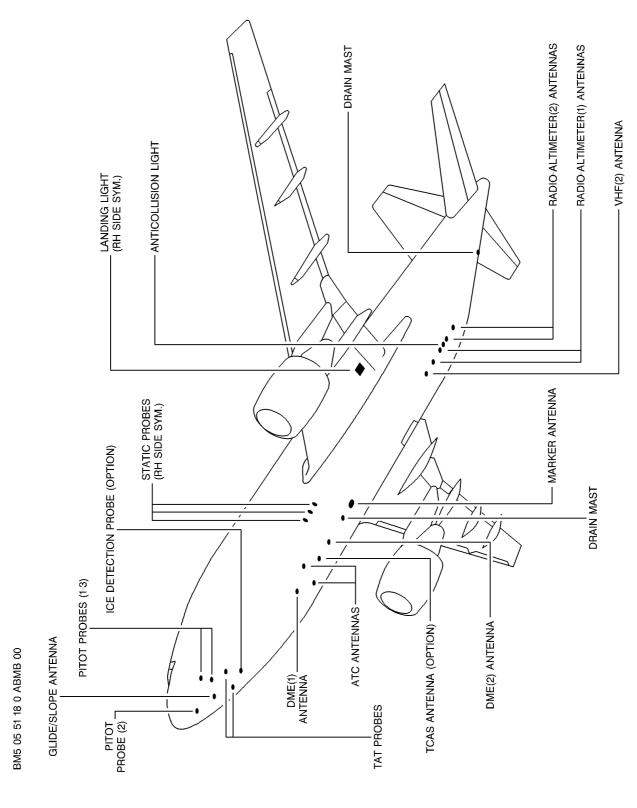
EFFECTIVITY: ALL

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Location of the Antennas, Probes and Sensors and Exterior Lights (Sheet 2/2)
Figure 009

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

INSPECTION AFTER ENGINE BIRD STRIKE OR SLUSH INGESTION

WARNING: THERE IS A POSSIBLE HEALTH RISK TO PERSONNEL WHO DO MAINTENANCE TASKS R AFTER A BIRD STRIKE. THE SAFETY MEASURES THAT FOLLOW ARE RECOMMENDED. - USE DISPOSABLE GLOVES. R - USE A DISPOSABLE COVERALL IF THERE IS A RISK OF BODY CONTACT DURING R R CLEANING. - DO NOT USE PRESSURIZED AIR OR WATER TO CLEAN THE PARTS WHICH WERE R IN CONTACT WITH THE BIRD. R - REMOVE THE BIRD REMAINS AND PUT THEM IN A PLASTIC BAG. R R - DO NOT TOUCH YOUR FACE, EYES, NOSE, ETC. WITH YOUR GLOVES. R - REMOVE THE GLOVES AND THE DISPOSABLE COVERALL AND PUT THEM IN THE R SAME PLASTIC BAG AS THE REMAINS. SEAL THE BAG. R

- DISCARD THE BAG AS YOU DO FOR USUAL GARBAGE.

- CAREFULLY WASH YOUR HANDS WITH SOAP AND WATER.

1. Equipment and Materials

ITEM	DESIGNATION
Α.	Warning Notices
B.	Borescope
Referenced Procedures	
74 47 00 1 704	

- 71-13-00, P. Block 301 Cowl Doors - 72-00-00, P. Block 601 Engine, General

2. Procedure

R

- A. Job Set-Up
 - (1)Position warning notices in flight compartment prohibiting operation of all engine systems.
 - (2) Open engine cowls (Ref. 71-13-00, P. Block 301).
 - (3)Clean out engine :
 - (a)Bird strike case
 - Rinse soiled parts with clean warm water.
 - Dry with hot air.
 - (b)Slush ingestion case
 - Clear out slush with a rubber scraper.
 - Rinse with clean warm water.
 - Dry with hot air.

CAUTION: ENSURE THAT ENGINE IS COMPLETELY CLEARED OF SLUSH AND WATER WHICH COULD FREEZE AND CAUSE INTERNAL DAMAGE AT NEXT START

- (4)Check that engine drain mast ram air intake and drain ports are not blocked.
- B. Leveling and Measurement Not applicable
- C. Inspection (1)Power plant

EFFECTIVITY: ALL

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-		Insp Code	•	1	2	3	Sign	Fig.	
	1	2		•	5	•		•	•
		 			•	 	•	•	•

D. Close-Up

- (1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
- (2)Close engine cowls (Ref. 71-13-00, P. Block 301).
- (3)Remove warning notices from flight compartment.
- (4)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment, all access equipment and miscellaneous items.

EFFECTIVITY: ALL

05-51-19

INSPECTION AFTER TAIL SKID RUNWAY STRIKE

NOTE: This inspection is equally applicable if:

- the skid strikes the runway on take-off.
- the skid strikes the runway on landing.

1. Equipment and Materials

DESIGNATION ______

Α. Access Platform 5 m. (16 ft. 4 in.)

Referenced Procedures

- 32-71-00, P. Block 1 Tail **G**ear

- 32-71-12, P. Block 401 R - 51-23-10, P. Block 1 Tail Gear Skid Shoe Paint Coatings

2. Procedure

A. Job Set-Up

(1)Position access platform and open bulk cargo compartment door 813. (2) Open access door 162AZ.

- B. Leveling and Measurement Not applicable
- C. Inspection

NOTE: All inspections called for are visual unless otherwise specified in

(1)Tail Gear

(Ref. Fig. 001) (Ref. Fig. 002)

Item	Insp Code	•	 Phase 1	 Phase 2			 Ref. Fig.
1	2	3	4	5	6	7	8
 1. 		 Tail skid 	 	 	 	 	 E
A.	ļ	,=::	X		<u> </u>	!	!!
-		cessive wear, cracks and de-					
		formation. 	 	 	 	 	

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

Item 	Insp Code	Accomplished	1	Phase	3	Sign	Fig.
1	2	3	4	5	6	7	8
	 	If damage found :					
	 	(1) Replace skid shoe if the wear (ABRASION) reaches the limit of the orange area (Ref. 32-71-12, P. Block 401 and 32-71-00, P. Block 1)		 X 		 	
	 	(2) Repaint the skid shoe if the wear (ABRASION) does not reach the limit of the orange area (Ref. 51-23-10, P. Block 1)				 	
 2.	 	 Fuselage (external) 		 	 	 	
A. 	 	Inspect skin panels, splicing and riveting for deformation, cracks, pulled or torn faste-		X 		 	
 3.	 	 Fuselage (internal)		 	 	 	
A. A. 	 	 Inspect frames and stringers for deformation, cracks, pul- led or torn fasteners.		X 		 	
B. 	 	 Inspect struts for buckling,		x 		 	
C. 	-	 Inspect strut attach fittings for deformation, cracks, pul- led or torn fasteners.		X 	 	 	
D. 		Inspect the 2 shear panels between FR76 and FR77 for de- formation, cracks, pulled or torn fasteners.		X 		 	
 E. 	 	 Inspect the 18 holes (Dia. 8.2 mm/0.322 in.) connecting abrasion shoe to fuselage between FR76 and FR77 for deformation and		 X 	 	 	

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

	Item	 Insp	Inspection Tasks to be	Phase	 Phase	 Phase	Insp	 R ef.	– I
		Code	:		2				
	1	2	3	4	5	6	7	8	
R		 	 cracks after the removal				 	 	
R	Ì	l	of the tail skid shoe						
R			(Ref. 32-71-12, P. Block 401).			1	I	I	Ι

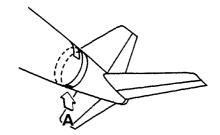
- D. Test Set-Up
 Not applicable
- E. Test Not applicable
- F. Close-Up
 - (1)Close access door 162AZ.
 - (2)Close bulk cargo compartment door 813 and remove access platforms.
 - (3)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment, all access equipment and miscellaneous items.

EFFECTIVITY: ALL

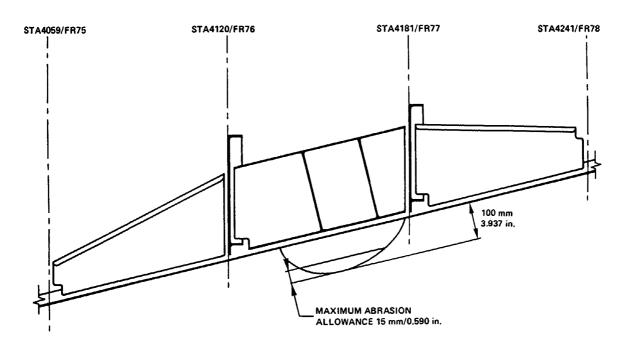
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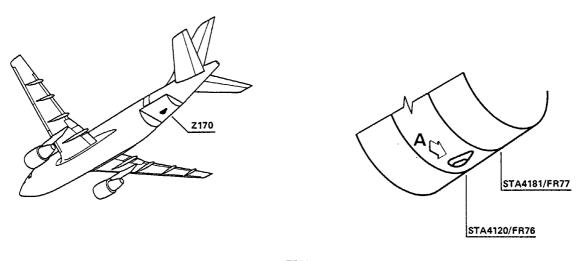


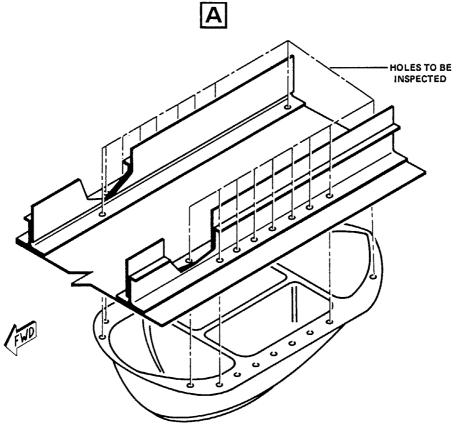
Tail Gear Area Figure 001

EFFECTIVITY: ALL

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Location of Abrasion Shoe 18 Installation Holes Figure 002

EFFECTIVITY: ALL

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INSPECTION AFTER NOSE LANDING GEAR TOWING OVERLOAD OR OVERRUN

1. General

R

This inspection is necessary in cases where, during aircraft pushback or push forward, unknown maneuvering continues after towbar shear pin failure resulting in loadings on the nose gear and its attachment structure, and when you do towbarless towing without NLG steering disconnection. In the case where the towbar separates after shear pin failure, during pull forward or pull backward, and the aircraft subsequently overruns the towbar, the inspection should be limited to the landing gear unit only. During a push-turn maneuver when only the turning shear pin fails and the towbar arm contacts the front of the tow vehicle, the inspection should be limited to the nose landing gear unit only.

It is assumed in all cases that only the correctly rated shear pins are used in the towbar.

If correctly rated shear pins are used, no inspection subsequent to failure is necessary provided that towing is halted immediately.

In the event that too highly rated shear pins are used in a towbar, then the full inspection must be carried out before next flight.

If you do towbarless towing without NLG steering disconnection, a full inspection is necessary before next flight.

2. Equipment and Materials

ITEM	DESIGNATION
A. B.	Access Platform 2.60 m (8 ft. 7 in.) Warning Notices
Referenced Procedures - 05-56-00, P. Block 1 - 32-22-11, P. Block 301 - 32-31-00, P. Block 501	Leveling and Measurement Nose Gear Main Door - (Ground Door(s) Opening) Normal Extension and Retraction

3. Procedure

- A. Job Set-Up
 - (1) Make certain that landing gear ground safety locks are correctly installed.
 - (2)Open nose landing gear doors (Ref. 32-22-11, P. Block 301).
 - (3)Position warning notices prohibiting closure of nose gear doors.
 - (4)Position access platform.
- **B.** Leveling and Measurement
 - (1) If phase 1 damage is found on nose gear attachments or structure, carry out a nose gear measurement and angle to aircraft check (Ref. 05-56-00, P. Block 1).
- C. Inspection

NOTE : All inspections called for are visual unless otherwise specified in text.

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EFFECTIVITY:	ALL	
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AIRCRAFT MAINTENANCE MANUAL

Operators may, at their own discretion or at the direction of their airworthiness authority, use nondestructive techniques in compliance with the Nondestructive Testing Manual (NTM).

EFFECTIVITY: ALL

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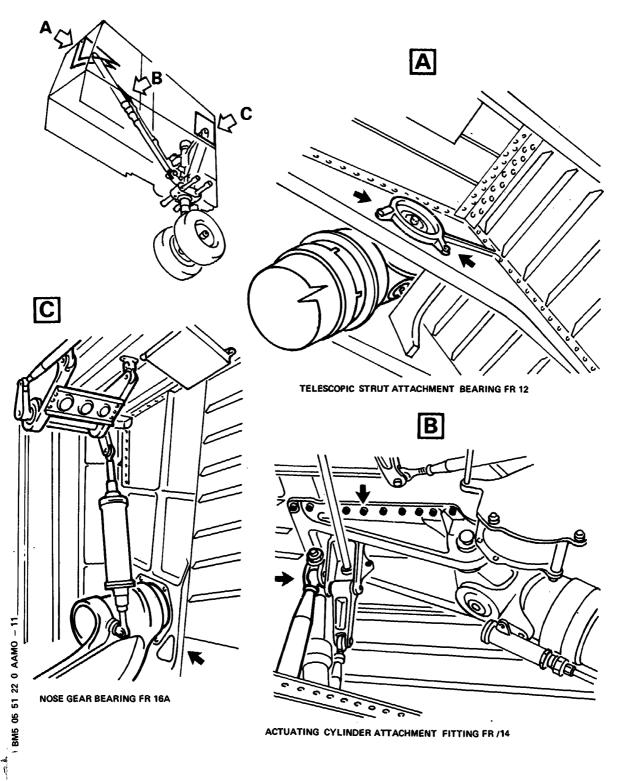
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(1) Fuselage STA1019/FR11 to STA1315/FR17 (Ref. Fig. 001)

	Insp Code		Phase 1	Phase 2		Insp Sign	
1	2	3		5	6	 7	 8
1.	 	NLG Well STA1019/FR11 to STA1315/FR17		 	 	 	 -
Α.	 	Inspect telescopic drag strut fittings and bearings for distortion, cracks and damaged paintwork.	 x 	 	 	 	 A
В.	 	Inspect telescopic drag strut fittings on nose gear shock strut for distor- tion, cracks, pulled or torn fasteners and damaged paintwork. If damage found: (1) Remove telescopic drag strut for strip down inspection in accordance with manufacturers O/H instructions.	 	 x 		 	
C.	 	 Inspect nose gear actuating cylinder attach fittings for distortion, cracks pulled or torn fasteners and damaged paintwork.	 x 	 	 	 	 B
	 	If damage found: (1) Remove actuating cylinder for strip down inspection in accor- dance with manufacturer's O/H instructions.	 	 X 	 	 	
D.	 	Inspect nose gear attach fittings and side plates for distortion, cracks and damaged paintwork.	x 	 	 	 	 C
2.	 	 In Avionics Compartment at STA1315/ FR17:	 	 	 	 	
Α.	 	Inspect gear well roof, roof-to-side- wall joint and floor support strut at- tach fittings for distortion, cracks, pulled or torn fasteners and damaged paintwork.	x 	 	 	 	

EFFECTIVITY: ALL

05-51-22



Nose Gear Attachment Figure 001

EFFECTIVITY: ALL

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(2)Nose landing gear

Item	Insp Code	·	Phase 1	Phase 2			Ref. Fig.
	 2	3	 4	 5	 6	 7	
1.	 	 On Nose Landing Gear:	 	 	 	 	
A.	 	 Inspect lower end of gear shock strut, shock absorber, wheels and tires for	 x 	 	 	 	
 	 	damage caused by contact with towbar. NOTE: Pay particular attention to	 	 	 	 !	
 	 	towing lug.	 			 !	
 		If damage found: (1)Repair or replace in accordance	 	 X		 !	
 	 	with manufacturer's O/H instruc- tions.	[]	 	 	 	

- D. Test Set-Up
 - (1)Remove access platforms.
 - (2) Remove warning notices.
 - (3)Close nose gear doors (Ref. 32-22-11, P. Block 301).

E. Test

Item	Insp Code	·	Phase 1	Phase 2	Phase	Insp Sign	
1	 2	3	4	5	6 6	 7	8
1.	 	Retract/extend NLG 3 times ensuring that movement is smooth and that no fouling or binding between moving parts and fittings or structure occurs (Ref. 32-31-00, P. Block 501). NOTE: This check is only necessary if damage to landing gear attachments or structure adjacent to them was found on inspection	 	X			

F. Close-Up

(1)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment, all access equipment and miscellaneous items.

EFFECTIVITY: ALL	05-5
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INSPECTION AFTER 95° NOSE LANDING GEAR STEERING ANGLE EXCEEDED

1. Reason for the Job Self-explanatory

R NOTE: Do this procedure on an aircraft with the steering-angle protection system, when the steering angle is more than 95 degrees. This can include towbar and towbarless towing operations.

2. Equipment and Materials

	ITEM	DESIGNATION
	A. B.	Circuit Breaker Safety Clips Warning Notices
	Referenced Procedures	
R R	- 05-51-22, P. Block 1	Inspection after Nose Landing Gear Towing Overload Or Overrun
	- 29-10-00, P. Block 301 - 32-00-00, P. Block 501	Main Hydraulic Power Landing Gear - General

- 3. Procedure
 - A. Job Set-Up
 - (1)Depressurise Green hydraulic system (Ref. 29-10-00, P. Block 301) and prohibit is pressurization by displaying warning notices.
 - (2)On Green system ground connectors.
 - (3)In flight compartment:
 - Open, safety and tag circuit breaker associated with steering system (GC).
 - B. Leveling and Measurement(1)Not applicable.
 - C. Inspection

KSSU

(1)Nose Landing Gear FR17

Item I C	nsp ode	Inspection Tasks to be Accomplished	Phase 1	Phase 2			
1 1	2	3	4	5	6	7	8
1.		On Nose Landing Gear		 	 	 	
A.		Remove steering actuating		 		 	
	- 1	cylinders for inspection for					
		internal damage in accordance	X				
	- 1	with manufacturer O/H instructions.					
	-	NOTE : This inspection is only					
	-	necessary if the towbar					
		turning shear pin did					
	- 1	not fail at the 95°					

EFFECTIVITY:	ALL	

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	Insp Code	·	Phase 1 	2	3	Sign	Fig.
1	2	3	:		6	!	!!
	 	steering limit.	 	 	 	 	
В.		Inspect proximity detectors and their electrical harness for impact damage e.g. rupture.	 X		 	 	

(2)Nose Landing Gear (NLG) Well

R								
R R	İ	Insp Code	•		Phase 2			
R R		 2	3		5		 7	
R	1.	 	NLG well	 	 	 	 	
R	A.		Do the inspection of the NLG well.	į	<u> </u>	 -	 	
R R	 	 	To do this, refer to Inspection after NLG Towing Overload or Overrun	X 	 	 	 	
R		l Ì	(Ref. 05-51-22, P. Block 1).			l		l İ

- D. Test Set-Up
 - (1) Remove warning notices.
 - (2) Remove safety clip and tag and close circuit breaker.

E. Test

R

Item	Insp Code	Accomplished	1	2	 e Phase 3 -	Sign	Fig.	
1	2			•	- 6	•		_
				į	 	į	į į	•

F. Close-Up

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Remove all ground handling and maintenance equipment standard and special tools, together with ground power and replenishing equipment, all access equipment and miscellaneous items.

EFFECTIVITY: ALL		
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INSPECTION AFTER LEAVING RUNWAY OR TAXIWAY

1. General

Due to several variable factors which can affect the loads applied to the landing gears and structure after leaving a runway or taxiway it is not possible to lay down hard and fast criteria as to inspection requirements. These factors are:

- aircraft speed
- aircraft weight
- terrain type e.g. soft earth, hard clay, sand
- depth to which the gears penetrate

NOTE: Recovery must obey the ARM requirement.

If recovery is different to the ARM requirement or if no recovery report is available, refer to AIRBUS for special instructions.

This inspection should therefore be applied at all times before further flight after an aircraft has left the runway or taxiway.

In all cases Operators should notify Airbus Industrie of full details of the incident at the earliest possible moment, in order that advice and assistance may be given as necessary to enable prompt and safe return to service of the aircraft.

R

2. Equipment and Materials

ITEM	DESIGNATION
Α.	Access Platforms 2.60 m (8 ft. 7 in.)
	3.40 m (11 ft. 2 in.)
В.	Warning Notices
Referenced Procedures	
- 05-56-00, P. Block 1	Leveling and Measurement After A/C Abnormal
	Operation
- 27-50-00, P. Block 301	Flaps
- 29-10-00, P. Block 301	Main Hydraulic Power - Pressurization/
·	Depressurization
- 32-11-11, P. Block 401	Main Gear Leg
- 32-12-11, P. Block 301	Main Gear Main Door - (Ground Door(s) Opening)
- 32-21-11, P. Block 401	Nose Gear Leg
- 32-21-14, P. Block 401	Nose Gear Shock Absorber
- 32-22-11, P. Block 301	Nose Gear Main Door - (Ground Door(s) Opening)
- 72-00-00, P. Block 601	General

3. Procedure

- A. Job Set-Up
 - (1) Make certain that landing gear ground safety locks are correctly installed.
 - (2)Extend flaps fully (Ref. 27-50-00, P. Block 301).
 - (3)Open nose gear main doors (Ref. 32-22-11, P. Block 301).
 - (4) Open main gear main doors (Ref. 32-12-11, P. Block 301).
 - (5)Depressurize Green, Blue and Yellow hydraulic systems (Ref. 29-10-00, P. Block 301).

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- (6)Position warning notices in flight compartment prohibiting operation of hydraulic, flight controls and landing gear systems.
- (7)Position access platforms.
- B. Leveling and Measurement
 - (1) If phase 1 damage is found to gear attachment structure or adjacent structure, carry out a landing gear measurement and alignment check (Ref. 05-56-00, P. Block 1).
- C. Inspection

R R

R

R

R

R R

R R

R R

R

R

NOTE : All inspections called for are visual unless otherwise specified in the text.

Operators may, at their own discretion or at the direction of their airworthiness authority, use nondestructive techniques in compliance with the Aircraft Nondestructive Testing manual (NTM).

- (1)Do a visual inspection of the different areas (refer to the inspection tasks below).
- (2) For the landing gears, if you find no damage during the inspections, put the gear back into service and send the proforma to Airbus for information only (Ref. Fig. 008).
- (3) If there is a report of damage during the phase 1 inspection, then record the applicable data on the proforma and send it to Airbus for advice before subsequent flight.
 - NOTE: If a landing gear goes into soft ground or traverses over, onto or against an obstacle, there is a risk of damage to the primary structure of the landing gear. Airbus requires that the proforma is completed and sent with the inspection results to Airbus to know what action is necessary.

EFFECTIVITY: ALL

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R (4) Fuselage

(Ref. Fig. 001) (Ref. Fig. 002)

	Insp Code	Inspection Tasks to be Accomplished	Phase 1			Insp Sign	
1		3		5	6	 7	 8
1.	 	 Fuselage underside stringers 29LH and 29RH including cargo doors	 - 	 	 	 	
Α.		Inspect complete fuselage underside Inspect complete fuselage underside for dents, distortions, cracks, pulled or torn fasteners and damaged paint-	 	 	 	 	
	 	 EXTERNAL 	 X	 	! 	 	
		 If damage found : (1)Inspect internally at, and adjacent to damage area, all frames, stringers, points and cleats for damage.		 	 	 	
	 	 (2)Inspect components, pipes, ducts and cables adjacent to damage area for damage and leakage:	 	 X 	 	 	
2.	 	 NLG well STA1019/FR11 to STA1315/FR17	 	 	 	 	
Α.	 	Inspect NLG and components mounted on it for cracks, scoring, tearing, rupture, leakage and damaged paintwork	 x 	 	 	 	
В.	 	 Inspect chrome plated area of shock absorber for blue spots or bronze marks.	 X 	 	 	 	
	 	 If damage found : (1)Remove shock absorber for O/H in accordance with manufacturer's ins- tructions (Ref. 32-21-14, P. Block 401).	 	 x 	 	 	
C.	ĺ	Check of tightening torque of shock absorber to shock strut fasteners (Ref. 32-21-00, P. Block 601). CAUTION: THIS INSPECTION CAN BE PLANNED WITHIN A GRACE PERIOD OF 1 MONTH. HOWEVER, IF A FORMER "LEAVING RUNWAY OR TAXIWAY (Ref AMM 05-51-11)"	-	 	 	 	

EFFECTIVITY: ALL

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	Insp Code		1	2	3	Sign	Fig
1		3		 5 	6	 7	 8
		HAS BEEN EXPERIENCED IN THE LAST 3 MONTHS (WITH INSPECTION NOT YET ACCOMPLISHED), THIS INSPECTION HAS TO BE PERFORMED BEFORE FURTHER FLIGHT.				 	
D.		Inspect telescopic drag strut upper attach fittings and bearings for distortion cracks and damaged paintwork.	X			 	 A
Ε.		Inspect telescopic drag strut fittings on nose gear shock strut for distortion, cracks and damaged paintwork.	X			 	
		If damage found: (1)Remove telescopic drag strut and nose gear for strip down inspection in accordance with the manufacturers O/H instructions.		X		 	
3.		NLG attachments, gear well roof and floor supports STA1305/FR16A to STA1315/FR17.				 	
Α.		Inspect nose gear attach fittings and well side plates for distortion, cracks and damaged paintwork.	X			 	 (
В.		Inspect nose gear actuating cylinder attach fittings for distortion, cracks, pulled or torn fasteners and damaged paintwork.	X			 	 B
		<pre>If damage found : (1)Remove actuating cylinder for strip down inspection in accordance with manufacturers O/H intructions.</pre>		X		 	
C.	 	In avionics compartment inspect gear well roof, roof to sidewall joint and floor support strut attach fittings for distortion, cracks, pulled or torn fasteners and damaged paintwork.	X			 	

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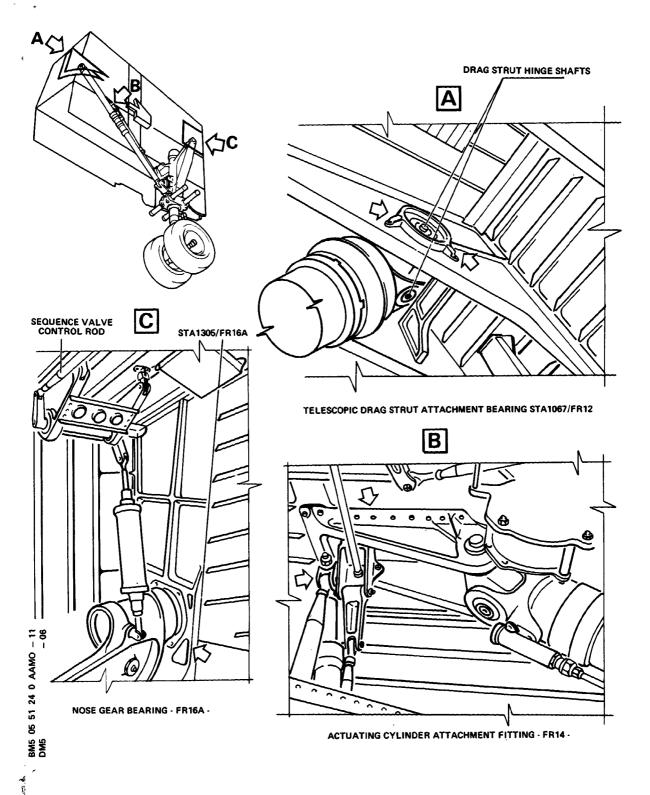
AIRCRAFT MAINTENANCE MANUAL

	Insp Code		1	Phase 2	3	Insp Sign 	Fig.
1	2	3	4	5	6	7	8
	 	If damage found : (1)Remove NLG for strip down ins- pection in accordance with manu- facturers O/H instructions and special requirements (Ref. 32-21-11, P. Block 401).		 	 	 - 	
		(2)Further structural inspection requirements will be advised by Airbus Industrie.	 	x 	 	 	
4.	 	 Intakes	 	 	 	 	
Α.	 	Inspect air conditioning pack and APU intakes for ingestion of debris and impact damage.	x 	 	 	 	
5.	 	 Fuselage STA2983/FR47 to STA3354/FR54.	 	 	 	 	
Α.	 	 Inspect MLG structure and components mounted on it for cracks, scoring, tearing, rupture, leakage and damaged paintwork.	 	 	 	 	
В.	 	 Inspect chrome area on shock absorber for blue spots and bronze marks.	 X	 	 	 	
	 	 If damage found : (1)Remove shock absorber for strip down inspection in accordance with the manufacturer's O/H instructions.	 	 x 	 	 	
C.	İ	Inspect MLG well oblique frame for distortion, cracks, pulled or torn fasteners and damaged paintwork.	 x 	 	 	 	

EFFECTIVITY: ALL

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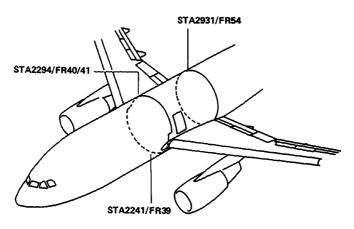
Nose Gear Attachment Figure 001

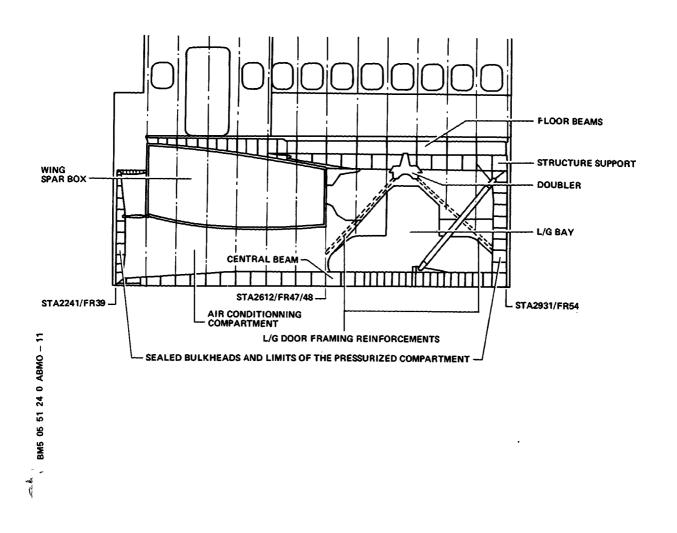
EFFECTIVITY: ALL

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Air Conditioning Compartment Main Gear Well and Hydraulics Compartment Figure 002

EFFECTIVITY: ALL

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R (5)Wings (Ref. Fig. 003, 004)

Code		1 1	Phase 2		Sign	
2	3		5	6	 7	 8
 	Flaps and flap track fairings		 			
		x 	 			
	fairing and falsework structure for distortion, cracks, pulled or torn	 X 	 			
	(1)Inspect flap track carriages and	 	 X	 		
	tortion, cracks, pulled or torn	 	 x 			
	INTERNAL	 	 	 		
	(3)Inspect wing internal structure adjacent to flap beam forward and aft mountings for distortion, cracks and damaged sealants.	 	 X 			
	rear spar ribs 4 and 5A, main gear	 	 X 			
	wing skin cut-out edges and rear	 	 			
	(a)Remove MLG for strip down inspection in accordance with manufacturer's O/H instructions and special require-	 	 	 x 		
	2	Flaps and flap track fairings Inspect flaps and lower flap track fairing for distortion, dents, cracks, pulled or torn fasteners and damaged paintwork. At STA270/RIB5 inspect flap track fairing and falsework structure for distortion, cracks, pulled or torn fasteners and damaged paintwork. If damage is found: (1)Inspect flap track carriages and tracks/beams for distortion and cracks (2)Inspect wing falsework for distortion, cracks, pulled or torn fasteners and damaged paintwork. INTERNAL (3)Inspect wing internal structure adjacent to flap beam forward and aft mountings for distortion, cracks and damaged sealants. (4)Inspect MLG attachments at rear and rear spar ribs 4 and 5A, main gear rib 5 and adjacent structure for distortion, cracking and fuel leaks. (5)Inspect main gear shock strut, wing skin cut-out edges and rear hinge fittings for impact damage from gear shock strut. If further damage found: (a)Remove MLG for strip down inspec-	Flaps and flap track fairings Inspect flaps and lower flap track fairing for distortion, dents, cracks, pulled or torn fasteners and damaged paintwork. At STA270/RIB5 inspect flap track fairing and falsework structure for X distortion, cracks, pulled or torn fasteners and damaged paintwork. If damage is found: (1)Inspect flap track carriages and tracks/beams for distortion and cracks (2)Inspect wing falsework for distortion, cracks, pulled or torn fasteners and damaged paintwork. INTERNAL (3)Inspect wing internal structure adjacent to flap beam forward and aft mountings for distortion, cracks and damaged sealants. (4)Inspect MLG attachments at rear and rear spar ribs 4 and 5A, main gear rib 5 and adjacent structure for distortion, cracking and fuel leaks. (5)Inspect main gear shock strut, wing skin cut-out edges and rear hinge fittings for impact damage from gear shock strut. If further damage found: (a)Remove MLG for strip down inspection in accordance with manufacturer's 0/H instructions and special require-	Flaps and flap track fairings Inspect flaps and lower flap track X fairing for distortion, dents, cracks, pulled or torn fasteners and damaged paintwork.	Flaps and flap track fairings Inspect flaps and lower flap track fairing for distortion, dents, cracks, pulled or torn fasteners and damaged paintwork. At STA270/RIB5 inspect flap track fairing and falsework structure for X distortion, cracks, pulled or torn fasteners and damaged paintwork. If damage is found: (1)Inspect flap track carriages and tracks/beams for distortion and cracks (2)Inspect wing falsework for dis- tortion, cracks, pulled or torn fasteners and damaged paintwork. INTERNAL (3)Inspect wing internal structure adjacent to flap beam forward and aft mountings for distortion, cracks and damaged sealants. (4)Inspect MLG attachments at rear and rear spar ribs 4 and 5A, main gear rib 5 and adjacent structure for distortion, cracking and fuel leaks. (5)Inspect main gear shock strut, wing skin cut-out edges and rear hinge fittings for impact damage from gear shock strut. If further damage found: (a)Remove MLG for strip down inspec- tion in accordance with manufacturer's l0/H instructions and special require-	Flaps and flap track fairings Inspect flaps and lower flap track fairing for distortion, dents, cracks, pulled or torn fasteners and damaged paintwork. At STA270/RIB5 inspect flap track fairing and falsework structure for X distortion, cracks, pulled or torn fasteners and damaged paintwork. If damage is found: (1)Inspect flap track carriages and tracks/beams for distortion and cracks X (2)Inspect wing falsework for distortion, cracks, pulled or torn X fasteners and damaged paintwork. INTERNAL (3)Inspect wing internal structure adjacent to flap beam forward and aft X mountings for distortion, cracks and damaged sealants. (4)Inspect MLG attachments at rear and rear spar ribs 4 and 5A, main gear X rib 5 and adjacent structure for distortion, cracking and fuel leaks. (5)Inspect main gear shock strut, wing skin cut-out edges and rear X hinge fittings for impact damage from gear shock strut. If further damage found: (a)Remove MLG for strip down inspection in accordance with manufacturer's O/H instructions and special require-

EFFECTIVITY: ALL		
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Item 	Insp Code	·	Phase 1	Phase 2			Ref. Fig.
1	2	3	4	5	6	7	8
 	 - 	requirements will be advised by Airbus Industrie.	 	 	 X 	 	
 C. 	 	Inspect MLG actuating cylinder attach- ments for distortion, cracks and damaged paintwork.	 X 	 	 	 	
 D. 	 	Inspect MLG actuating cylinder sliding rod chromed area for signs of abrasion		 	 	 	
 	 	If damage found: (1)Remove actuating cylinder for strip down inspection in accordance with the manufacturer's O/H instructions.		 X 	 	 	

R (6)Engines, nacelles and pylons

(Ref. Fig. 005)

(Ref. Fig. 006)

(Ref. Fig. 007)

[tem	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.
	Code	Accomplished	1	2	3	Sign	Fig.
1	2	3				 7	8
 -	 	Engine	 	 	 	 	
A.		Inspect for signs of foreign object damage.	 X 	 	 	 	
		If damage found:	 	! 	 	! 	
		(1)Carry out a full borescope inspection of engine (Ref. 72-00-00, P.	 	X]
		Block 601).	 	 	 	! !	
 		Nacelle	 	 	 	 	
Α.	 	Inspect nacelle and engine aft section	 X	 	l 	 	

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Item	Insp Code		Phase 1	Phase 2	Phase 3	Insp Sign	
1	2	3	4	5	6 6	7	8
		for dents, distortion, cracks and damaged surface treatment.		 	 		
3.	 	 Pylon		! 	! 	 	
Α.	 	Inspect pylon for dents, distortion, cracks, pulled or torn fasteners and damaged paintwork.		 	 	 	
	 	 EXTERNAL	X	 	 	 	! !
		 If damage found : (1)Inspect pylon internal structure for distortion and cracking.		 X	 	 	
	 	(2)Inspect pylon-to-wing mountings, skin and wing internal structure adjacent to pylon mounts for distor-		 x 	 	 	
	 	 (3)Inspect engine mountings for cracks, distortion and damaged fasteners.		 X 	 	 	
		 If further damage found : (a)Further structural inspection requirements will be advised by Airbus.		 	 X	 	

D. Condition for Aircraft Release

R

R R

R

R

R

R

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R

R

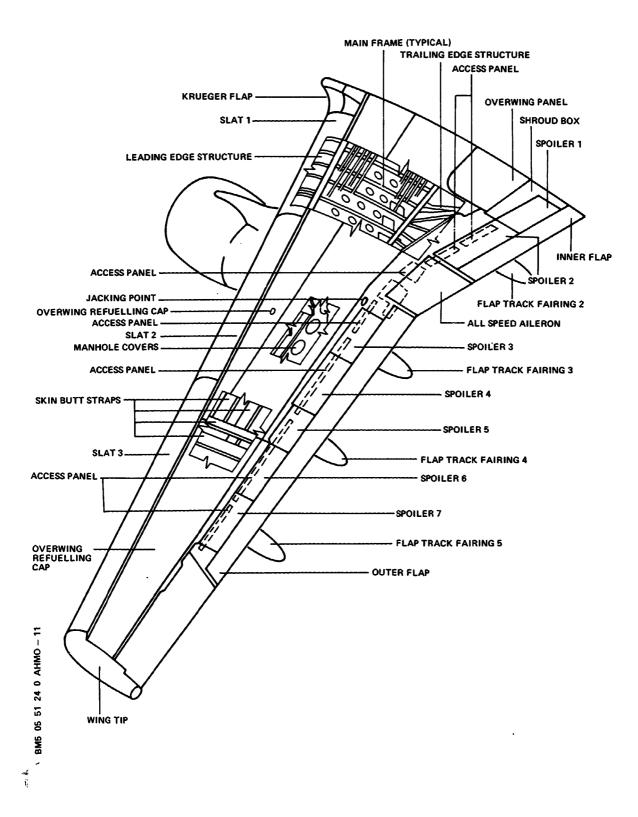
- (1)If you find no damage during the inspections, put the gear back into service and send the proforma to Airbus for information only (Ref. Fig. 008).
- (2) If there is a report of damage during the phase 1 inspection, then record the applicable data on the proforma and send it to Airbus for advice before subsequent flight.

<u>NOTE</u>: If a landing gear goes into soft ground or traverses over, onto or against an obstacle, there is a risk of damage to the primary structure of the landing gear. Airbus requires that the proforma is completed and sent with the inspection results to Airbus to know what action is necessary.

₹	Ε.	Close-Up)						
		Restore	system	and/or	aircraft	to	normal	operating	condition

EFFECTIVITY: ALL	05 ·51·24
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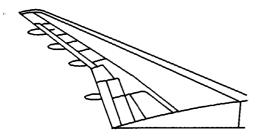
Wing General Arrangement Figure 003

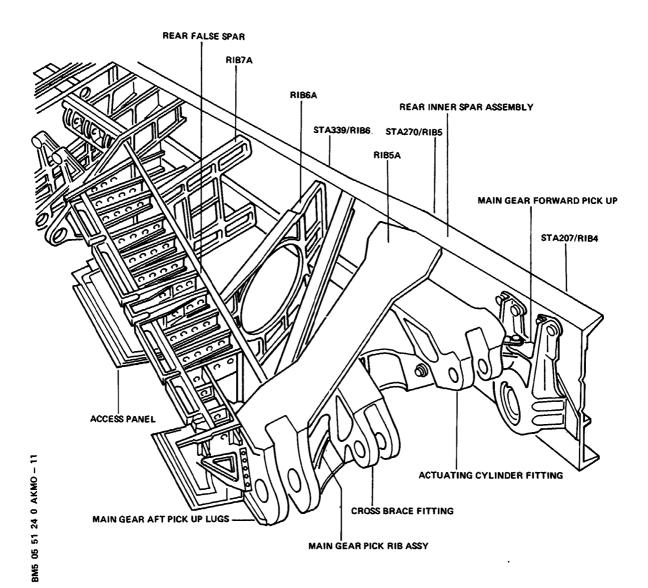
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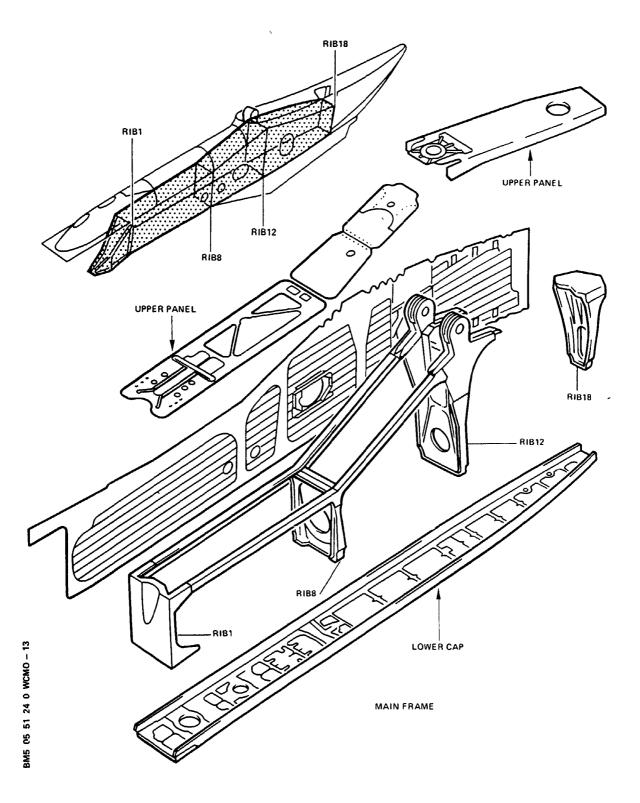
Main Gear Pick Up Fittings and Adjacent Area Figure 004

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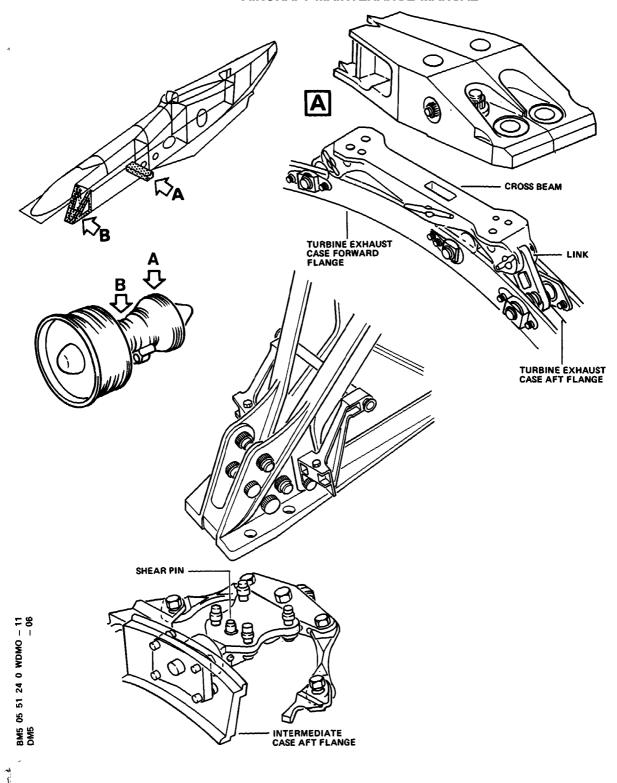
Pylon and Main Frame Figure 005

R EFFECTIVITY: ALL

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Engine-to-Pylon Attachments Figure 006

R EFFECTIVITY: ALL

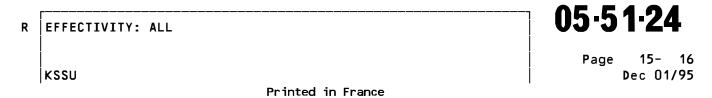
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- SPIGOT FITTING

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Pylon-to-Wing Attachments Figure 007



AIRCRAFT MAINTENANCE MANUAL

EACH 'OFF-RUNWAY' INCIDENT COMPRISES UNIQUE CIRCUMSTANCES REQUIRING INDIVIDUAL ASSESSMENT AND DISPOSITION.

THIS PROFORMA IS DESIGNED TO SUPPORT THIS EVALUATION OF 'OFF-RUNWAY' IN-SERVICE INCIDENTS THEREBY AIDING BEST TECHNICAL JUDGEMENTS TO BE MADE AND QUICKEST DISPOSITION OF ACTIONS NECESSARY FOR RETURN OF AIRCRAFT LANDING GEARS TO SERVICE.

FILL IN ALL SECTIONS AS FULLY AS POSSIBLE AND SUPPLY AS MANY PHOTOGRAPHS AS POSSIBLE TO HELP SHOW THE INCIDENT

AIRLINE

DATE AND (LOCAL) TIME OF INCIDENT

AIRPORT

AIRCRAFT TYPE INCLUSIVE OF DASH NUMBER

AIRCRAFT REGISTRATION

MSN

CONTACT DETAILS OF RESPONDENT

Proforma Figure 008

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SECTION 1

NCIDENT. YOU MUST ALSO SHOW THE PATH OF THE LANDING GEAR. SHOW THE CROSS SECTION OF THE RUNWAY AND THE ADJACENT GROUND THAT THE AIRCRAFT MOVED ACROSS, WITH THE APPROXIMATE DIMENSIONS OF ALL SUPPLY PHOTOGRAPHS TO SHOW THE INCIDENT. THESE MUST INCLUDE VIEWS OF THE TAXIWAY, RUNWAY, AIRPORT, BUILDINGS AND THE POSITIONS OF ALL OBSTACLES THAT THE AIRCRAFT TOUCHED DURING THE STEPS AND GRADIENTS.

GIVE THE APPROXIMATE DISTANCES AND TRAJECTORY OF THE AIRCRAFT DURING THE INCIDENT, WITH THE ATTITUDE OF THE AIRCRAFT AFTER THE INCIDENT.

SUPPLY PHOTOS TO SHOW THE ITEMS BELOW

THE APPLICABLE LANDING GEAR (THE TWO SIDES, FRONT, REAR ELEVATIONS AND ALL AREAS OF DAMAGE)

BEFORE AND AFTER RECOVERY

- THE AIRCRAFT BEFORE RECOVERY IN ITS REST POSITION OFF THE RUNWAY - THE TRACKS MADE BY EACH LANDING GEAR OFF THE RUNWAY AND ALL SKID MARKS ON THE RUNWAY

RECOVERY OF THE AIRCRAFT

Proforma Figure 008

EFFECTIVITY: ALL

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DETAILED WRITTEN DESCRIPTION OF "OFF-RUNWAY" INCIDENT

SECTION 2

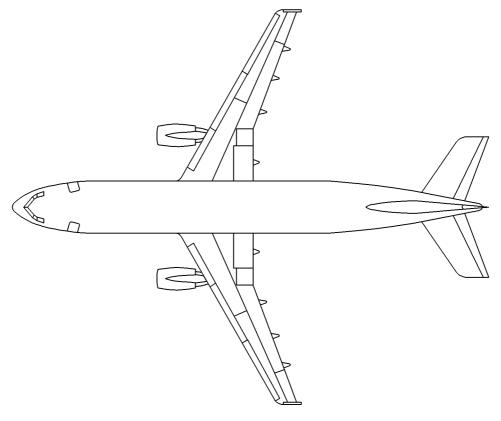
Proforma Figure 008

EFFECTIVITY: ALL

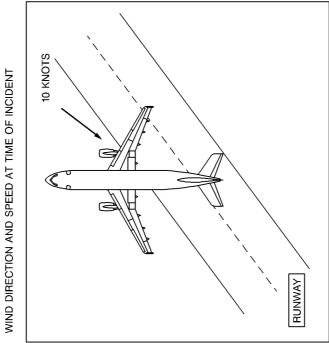
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SECTION 3



Proforma Figure 008

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Proforma Figure 008

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I) Braking Application Were Brakes Applied During Incident	JRING INCIDENT		YES	O _N	
IF YES, AT WHAT POINT IN	IF YES, AT WHAT POINT IN THE EVENT WERE THE BRAKES APPLIED	KES APPLIED	 	 	
A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA TELENICIA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAMA A POPONIAM					
PLEASE SUPPLY PH	PLEASE SUPPLY PHOTOGRAPHS OF SKID MARKS IF APPLICABLE	KS IF APPLICABLE		:	
ON-RUNWAY SKID MARK DISTANCE	AARK DISTANCE	_METRES OR	 	FEET	
OFF-RUNWAY SKID I	SKID MARK DISTANCE	_ METRES OR	1	FEET	
J) WERE THRUST REVERSE	ERSERS DEPLOYED DURING INCIDENT	IDENT	YES	O _N	
K) APPROXIMATE AIRCRAFT VELOCITY IN 3 AXES	r Velocity in 3 axes				
VERTICAL m/s	_ m/s FORWARD	s/w (LATERAL	3AL m/s	S
OR SAME CO	SAME COMMENT AS ABOVE				
VERTICAL	ft/s FORWARD	s/11 (ft/s	LATERAL	3AL ft/s	0
L) NLG STEERING ANGLE (F MAX DEVIATION OF	L) NLG STEERING ANGLE (FUNCTION OF TIME IF POSSIBLE) START MAX DEVIATION OF NWSA RELATIVE TO DIRECTION OF TRAVEL.	START OF TRAVEL.	FINISH DURING OFF F	FINISH ** DURING OFF RUNWAY TRAVERSE	SE AT REST
M) ENGINE THRUST,	AT REST	~ 0	2%	10%	OTHER %
	DURING TRAVERSE	 %0	2%	10%	OTHER %
N) RESTING ATTITUDE OF A	OF AIRCRAFT OFF RUNWAY	ROLL		PORT OR	R STARBOARD
		PITCH °	NOSE	NOSE DOWN OR	R NOSE UP

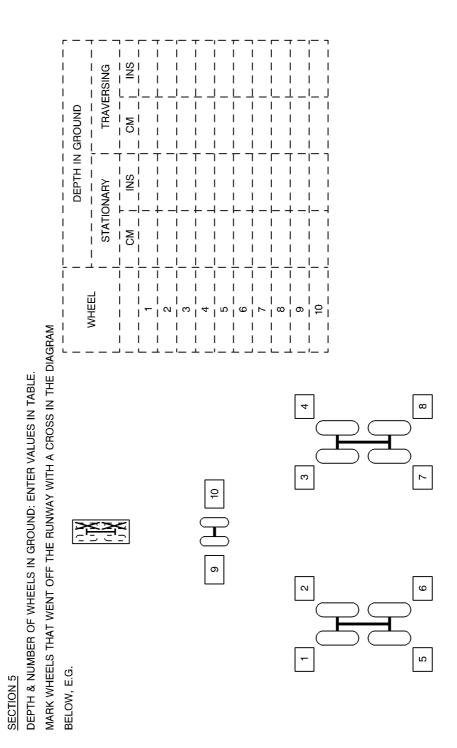
Proforma Figure 008

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Proforma Figure 008

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DESCRIPTION OF THE RECOVERY (SUPPLY PHOTOGRAPHS):

SECTION 6

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AIRCRAFT MAINTENANCE MANUAL

INSPECTION AFTER FLIGHT THROUGH SAND DUST STORM/VOLCANIC ASH OR SEVERE CONDITIONS ON GROUND

1. General

R

Inspection is to be carried out after flight in a severe dust storm; volcanic ash or after dust contamination during A/C stop.

NOTE: Definition of dust storm:

A dust storm is an unusual condition in which strong winds blow large quantities of sand into the air. A dust storm goes over large areas and decreases visibility very much.

NOTE: Definition of volcanic ash:

Volcanic ash is small particles of rock powder that are blown out of a volcano. These particles can go into the atmosphere to the aircraft flight levels. They can move thousands of miles and stay in the atmosphere for long periods.

Many events show that engine, and/or APU, operation in volcanic ash environments can cause significant damage to the engine and/or APU.

 ${\underline{\mathtt{NOTE}}}$: In case of contamination on the ground of an aircraft well

protected by covers and blanks, as described in AMM 10-11-00, P. Block 1, with all doors and access panels closed and with all flying surfaces retracted, it is only recommended to apply general inspection as described in para. 3.C.(1) and structure inspection

as described in para. 3.C.(8).

2. Equipment and Materials

ITEM	DESIGNATION
A.	Access Platform 3.60 to 5.70m (11 ft. 10 in.
	to 18 ft. 8 in.)
В.	Warning Notices
Referenced Procedures	
- 10-11-00, P. Block 1	Parking
- 12-13-79, P. Block 1	Engines (Engine Oil System)
(PW only)	
- 12-15-38, P. Block 1	Potable Water Replenishing
- 12-21-11, P. Block 1	External Cleaning
- 12-21-12, P. Block 1	Internal Cleaning
- 12-22-00, P. Block 1	Lubrication
- 12-24-34, P. Block 1	Air Data System
- 12-24-38, P. Block 1	Potable Water System Drainage
- 12-32-28, P. Block 301	Fuel Sampling for Detection of
	Microbiological Contamination
- 12-32-29, P. Block 1	Hydraulic Fluid
- 20-29-1 3, P. Block 1	Cable Cleaning and Application of Protective
	Finishes on Cables
- 21-31-12, P. Block 301	Cabin Pressure Outflow Valve
- 21-51-16, P. Block 301	Water Separator
- 21-51-32, P. Block 401	Heat Exchanger
- 21-51-32, P. Block 601	Heat Exchanger
- 24-11-00, P. Block 601	IDG System

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	ITEM	DESIGNATION
	- 26-15-12, P. Block 401	Smoke Detectors
R		Smoke Detectors Sniffer Fan
R		Cargo Compartment Smoke Detectors
R	-	Lavatory Smoke Detectors
••	- 28-11-00, P. Block 1	Fuel Tanks
	- 28-11-00, P. Block 601	Tanks
	- 28-12-21, P. Block 401	NACA Intake and Vent Protector
	- 29-00-00, P. Block 301	Hydraulic Power - General
	- 29-10-00, P. Block 301	Main Hydraulic Power - Pressurization/
		Depressurization
	- 29-14-12, P. Block 401	Pressure Reducing Valve
	- 29-14-13, P. Block 401	RSVR Pressurization Filter
	- 29-14-14, P. Block 401	Eng1 Pressurization Line Isolation Check Valve
	- 34-10-00, P. Block 301	Flight Environment Data
	- 36-11-00, P. Block 501	Engine Bleed Air Supply System
	- 36-11-12, P. Block 601	HP Valve
	- 36-11-14, P. Block 601	Bleed Valve
	- 36-11-15, P. Block 401	Bleed Air Precooler
	- 36-11-16, P. Block 601	Fan Air Valve
	- 38-10-00, P. Block 301	Potable
	- 49-51-13, P. Block 201	Surge Air Valve
	- 49-91-12, P. Block 201	Oil Filter
	- 49-91-15, P. Block 401	Oil Cooler
	- 71-00-00, P. Block 501	Power Plant - General
	- 72-00-00, P. Block 601	Engine - General
	- 72-21-02, P. Block 601	First Stage Compressor Rotor
	72 27 07 5 51 1 (2)	(Fan) Blade Assembly
	- 72-23-03, P. Block 601	Fan Exit Rear Case Assembly
	- 73-12-03, P. Block 401	Fuel Filter
	- 79-21-03, P. Block 401	Oil Filter

3. Procedure

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- A. Job Set up
 - (1) Make certain that landing gear ground safety locks are in position.
 - (2)Depressurize Green, Blue and Yellow hydraulic systems (Ref. 29-10-00, P. Block 301).
 - (3)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
 - (4)Display warning notices in flight compartment prohibiting operation of all systems.
 - (5)Position access platforms.

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- B. Leveling and Measurement Not applicable.
- C. Inspection
 (1)General

R (a)Dry dust or volcanic ash

•		Insp. Code	Inspection Tasks to be Accomplished	 Phase 1	Phase 2		Insp. Sign	
	1	2	3	4	5	6	7	 8
		 	Remove loose dust/ash on aircraft exterior:	X 		 	 	
R R R R R R	 		CAUTION: WHEN YOU BLOW SAND OR DUST WITH AN AIR BLOWER, MAKE SURE THAT THE SAND OR DUST DOES NOT CAUSE CONTAMINATION OF THE OTHER COMPONENTS (PROBES, ETC.).	 		 		
	 		NOTE: Care should be taken not to rub the surface when washing the aircraft. Dust/ash is very corrosive, good cleaning is necessary to avoid corrosion.	 	 	 	 	
R R R	 		NOTE: In case of dry dust or volcanic ash, do not use fluids to remove the dust or volcanic ash.	 	 	 	 	
R R R	 		If there is a layer of dust or volcanic ash on the aircraft surfaces, remove	 	 	 	 	
R R R	 	 	the dust or volcanic ash with a vacuum cleaner (or, if you cannot use a vacuum	 	 	 	 	
R R R	 		cleaner, use an air blower, a soft cloth or a hand brush).	 	 	 	 	
R R R	 		Fluids can mix with the dust or volcanic ash and make a paste that can cause	 	 	 	 	
R R R	 		erosion/abrasion. This paste can go into areas that are not easy to clean.	 	 	 	 	
R R R	 		 If there is a layer of dry dust or volcanic ash on the aircraft surfaces, remove the dust or volcanic ash with a vacuum 	x 	 	 	 	

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Item 	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp. Sign	
 1	 2	3	4			 7	
		cleaner, an air blower, a soft cloth or a soft brush.	 	 	 	 	
2 		Perform complete lubrication of points exposed to sand dust/ash contamination (Ref. 12-22-00, P. Block 1).	X 	 	 	 	
 3 	 	Check all control cables for dust/ash contamination.	 X 	 	 	 	
		If control cables are contaminated, clean and reprotect (Ref. 20-29-13, P. Block 1).	 	 X 	 	 	

R		(b)Wet	dust or volcanic ash					
R R R	Item 	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp. Sign	
R	1		3	4	5	6 6	 7	8
R R R R R R R R R R R R R R R R R R R	 1 		If there is a layer of wet dust or volcanic ash on the aircraft surfaces, remove the dust or volcanic ash with a water jet: NOTE: In case of wet dust or volcanic ash, remove the dust or volcanic ash with a water jet with maximum flow and low pressure. Do not direct the water jet toward probes and sensors. Start from the top of the aircraft to the bottom. NOTE: Cleaning from the top to the bottom is recommended to make sure that the contamination is fully removed from the aircraft. Recesses and void spaces (cavities) on the aircraft (e.g. slats, flaps, brakes, landing	 X 		 	 	
R R			gears and landing gear bays) where particles can become lodged	 	 	 	 	

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Item 	Insp. Code 	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp. Sign	
1		3	4	5 5	6 6		
 		need to be carefully cleaned. - After cleaning, recesses, void spaces and outlets positioned on top of the aircraft (e.g. main deck cargo doors) need to be inspected to ensure the inside is not contaminated.	X X 	 			
 2 		Perform complete lubrication of points exposed to dust/ash contamination (Ref. 12-22-00, P. Block 1).	 x 	 	 	 	;
 3 		Check all control cables for dust/ash contamination.	X 	 	 	 	
 4 		If control cables are contaminated, clean and reprotect (Ref. 20-29-13, P. Block 1).	 	 X 	 	 	

- $\underline{\mathbf{1}}$ To prevent damage to the aircraft surface, obey these operating conditions:
 - Maximum impact pressure 0.1 bar (1.5 psi) on radome, rudder and elevators.
 - Maximum impact pressure 0.7 bar (10 psi) on all other surfaces.

Example of spraying equipment settings for an impact pressure 0.1 bar (1.5 psi):

Nozzle Pressure 		Maximum Flow	 	Nozzle/Aircraft Minimum Distance	
For 100 bar (1450 psi) pressure		900 l/h		1000 mm (39 in.)	
For 50 bar (725 psi) pressure	i	900 l/h	<u> </u>	500 mm (20 in.)	<u> </u>

Example of spraying equipment settings for an impact pressure 0.7 bar (10 psi):

Nozzle Pressure 		Maximum Flow	 	Nozzle/Aircraft Minimum Distance	
For 100 bar (1450 psi) pressure	 	900 l/h	 	250 mm (10 in.)	

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R R R	Nozzle Pressure 	 	Maximum Flow		Nozzle/Aircraft Minimum Distance	
R	For 50 bar (725 psi) pressure		900 l/h		50 mm (2 in.)	

 ${\underline{\mathtt{NOTE}}}$: For other settings, Airbus recommends that you get confirmation of the impact pressure values from the equipment manufacturer.

(2)Air Conditioning System

R

R

Item 	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3		Ref. Fig.
1	2	3		5	6	 7	8
 1 	 	Inspect refrigeration unit cooling air inlet duct for contamination	X X	 	 	 	
 2 	 	Perform heat exchanger inspection/ test (Ref. 21- 51-32, P. Block 601)	 x 	 	 	 	
 3 	 	 If contaminated replace heat exchan- gers (Ref. 21-51-32, P. Block 401)	 	 X 	 	 	
 4 	 	 Check water separator coalescer bags for contamination (Ref. 21-51-16, P. Block 301)	 X 	 	 	 	
5		Replace if contaminated		X			
 6	 	 Not Applicable	 	 	 	 	

(3)Anti-Ice and Pneumatic Systems

I 	tem	Insp. Code	Inspection Tasks to be Accomplished		Phase 2		•		
-	 1	 2	 3	 4	 5	 6	 7	 8	
j-				ji				i	İ
	1	 	Inspect precooler air inlet and outlet for contamination	X	 	 	 	 	
i		İ			!	!	! 	! 	i
ĺ	2	İ	If contaminated	j i	ĺ	ĺ	İ	İ	İ
			- Replace Bleed Air precooler (Ref.		X				

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Item	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp.	
1	2	3	4	5	6	7	8
 	 	36-11-15, P. Block 401) - Check for correct condition of Fan Air Valve Filter (Ref. 36-11-16, P. Block 601)	 	X X 	 		
 	 	- Check for correct condition of HP Bleed Valve Filters (Ref. 36-11- 12, P. Block 601)		X 	 		;
 	 	<pre> - Check for correct condition of Pneumatic Pressure Regulator Valve (Bleed Valve) Filter (Ref. 36-11- 14, P. Block 601)</pre>	 	X 	 		
 	 	- Check nose cowl and wing anti-ice air outlets for contamination	[[X 	 		
 	 	- Check wing leading edge air cooling for contamination	 	X 	 		
	 	- Test engine bleed air supply sys- tem (Ref. 36-11-00, P. Block 501)	<u> </u> 	х 	 		

(4)APU

Item	Insp. Code	Inspection Tasks to be Accomplished 	Phase 1	Phase		Insp. Sign		
1	2	3	4	5	6	7	8	
1 1		 Check APU intake and exhaust for contamination 	X 	 	 	 	 	
2	 	If contaminated : - Check for condition of APU Air Valve Filter (Ref. 49-51-13, P. Block 201)	 	 X 			 	
 3 		- Replace oil cooler (Ref. 49-91-15, P. Block 401) If APU Air Valve Filter is contami- nated check oil filter (Ref. 49-91- 12, P. Block 201)	 	X 	 X 	 	 	

(5)Engine

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NOTE : These inspections are only required after flight through volcanic ash or severe conditions on ground.

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It 	em	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase			Ref. Fig.	
	1	2 2	3	4	5	6	7	8	
 	1	 	Visually check fan blades, engine inlet and exhaust areas for evidence of damage or erosion (Ref. 72-21-02, P. Block 601,72-23-03, P. Block 601)	ĺ	 				
 	2		Borescope inspect (Ref. 72-00-00, P. Block 601) high pressure compressor and high pressure turbine for evi- dence of foreign object damage (FOD) or build-up of dust/ash deposit	 				 	
 	3	 	Remove and inspect main oil filter (Ref. 79-21-03, P. Block 401). (only required after flight through volcanic ash)	x 				 	
 	4	 	If damage found, flush oil system (Ref. 12-13-79, P. Block 1-Config 2) (only required after flight through volcanic ash)	 	X 			 	

(6)Communication and Navigation

	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase		Insp. Sign	-
1	2	3	4	5	6	7	8
1		Inspect electronics racks particularly around cooled components, clean with vacuum cleaner if required		 	 	 	
2		Inspect antennas and temperature probes, replace if significant damage (erosion, etching)	 x 	 	 	 	
3		Inspect pitot probes and alpha probes, replace if significant damage	 X 	 	 	 	

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Item 	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase		Insp.		
1	2		4	5	6	7	8	
4 4	 	Open drains of ADS pneumatic system (Ref. 12-24-34, P. Block1) and check for evidence of dust/ash		 	 		 	
5	 	 If dust/ash is evidenced, flush system (Ref. 34-10-00, P. Block 301)	 	X	 		 	

(7)Potable Water

	Insp. Code		1	2	3	Sign	Fig.	ĺ
1	2		 4		:	:	:	:
1	 	Drain potable water system (Ref. 12- 24-38, P. Block 1), flush (Ref. 38- 10-00, P. Block 301) and replenish (Ref. 12-15-38, P. Block 1)	ĺ		 	 	 	

(8)Structure

		Insp. Code		Phase 1 	2	3	Sign	Fig.	
	1	2	3		5	6	7	8	
	1	 	Check airframe generally for erosion paying particular attention to lea- ding edges, all flight controls, radome and landing gear bays	i x	 	 		 	

(9)Electrical Power

	Code		1	2	3	Sign	Fig.
1	 2		 4 	5	6	7	8
1		Inspect A/C generator 1 and 2 drive for contamination (Ref. 24-11-00, P. Block 601)	 	X X	 	 	

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	Insp.		1	2	3	Sign	Fig.
1	2	•	 4 	5	6	7	8

(10) Hydraulic Power

 $\underline{{\tt NOTE}}$: This inspection is required if air conditioning system or antiice and pneumatic systems are contaminated.

Item	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp. Sign		
1	 2	3	4	 5		 7	8	
1	 	Check filter/restrictor 1392			 !	 	 	
2	 	 Check filter/union 1398	 	 X	 -	 -	 	
 3 	 	 Check filter 1376 (Ref. 29-14-13, P. Block 401)	 	 X 	 	 	 	
4		If evidence of contamination : - Check all hydraulic filters (Ref. 29-00-00, P. Block 301) - Perform hydraulic fluid contamina- tion detection (Ref. 12-32-29, P. Block 1)	 	 	 X X X	 	 	
 	 	- Check pressure reducing valve (Ref. 29-14-12, P. Block 401)	 	 	X 	 	 	
 		- Check Eng. Press. line valve (Ref. 29-14-14, P. Block 401)	i I	 	X 	 	 	

(11) Fuel system

tem	Insp. Code	Inspection Tasks to be Accomplished	Phase	Phase 2		Insp. Sign	
1	2	3		5	6	7	8
1	 	Inspect NACA vents for contamination			 	 	
		If contaminated :	 		 	 	!
	 	- remove NACA intake (Ref. 28-12-21, P. Block 401)	 	X	 	 	
		- inspect interior of surge tank.	 	x	 	 	
	 	If contaminated :	 		 	 	
		 inspect the interior of the main 			l x	1	I

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Item	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp. Sign	
1		3	 4		6	 7	 8
	 	tanks (Ref. 28-11-00, P. Block 601).	 - 	 	 	 	
	 	NOTE : Contamination is expected to start/settle at the inboard end.	 	 	 	 	
2	 	Operate water drain valve (Ref. 28-11-00, P. Block 1) and inspect the water obtained.	 x 	 	 	 	
	 	If contaminated - take a sample of fuel for analysis (Ref. 12-32-28, P. Block 301).	 	 X 	 	 	
	 	If found contaminated - check screens on fuel pumps . for inboard pumps . for outboard pumps . for center pump	 	 	 	 	
	 	- check fuel filters (Ref. 73-12-03, P. Block 401).	 	 	x	 	
3	 	 Inspect the refuel/defuel control panel. Clean if contaminated.	 x 	 x	 	 	
4	 	Clean II contaminated. Inspect the over wing refueling cap. Clean if contaminated.	 X	^ X	 	 	

(12)Smoke detection system

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Item	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp. Sign	
1 1	2	3	4	 5	6		 8
1		In the lavatories, examine all the smoke detectors for dust or ash contamination.	X 		 	 	
	 	<pre>If you find contamination: - replace the smoke detectors (Ref. 26-17-11, P. Block 401).</pre>	 	 x 		 	
2		In the avionics compartment:		 	 	 	
	 	Remove avionics smoke detectors (Ref. 26-15-12, P. Block 401).	X 	 		<u> </u>	
i I		Remove avionics sniffer fan (Ref. 26-15-21, P. Block 401).	X 	 	 	 	
		Examine the smoke detector ventilation tube.	x	 	 	 	!
		<pre>If you find contamination: - clean the smoke detector ventilation tube,</pre>	 	 X	 	 	
		- replace the smoke detectors (Ref. 26-15-12, P. Block 401).	 	X 		 	
3 		In cargo compartments, examine all the smoke detectors.	x 	 		 	
i I I		<pre>If you find contamination: - replace the smoke detectors (Ref. 26-16-11, P. Block 401).</pre>	 	 X 	 	 	

R (13)Doors (a)Wet dust or volcanic ash additional inspections

Item 	Insp. Code	Inspection Tasks to be Accomplished	Phase 1			Insp. Sign	
	 2	3		5	 6	 7	 8
1		Check doors generally for erosion, paying particular attention to sealing and recesses. Good cleaning is mandatory to avoid malfunction.	X X 	 	 	 	

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D. Close-up
(1)Restore systems and aircraft to normal operating condition.
R (2)Clean the aircraft interior, if required (Ref. 12-21-12, P. Block 1).
R (3)Clean the aircraft exterior, if required (Ref. 12-21-11, P. Block 1).
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INSPECTION AFTER ENGINE FAILURE

1. General

This inspection must be conducted after an engine failure like:

- heavy engine unbalance, when one or more than one fan blade is lost
- engine seizure

which requires engine removal.

2. Equipment and materials

	ITEM	DESIGNATION				
	A.	Access Platform 1.98 m to 8.03 m (6 ft. 6 in. to 26 ft. 4 in.)				
	В.	Warning Notices				
	Referenced Procedures	•				
	- 24-41-00, P. Block 301	External Power				
	- 29-10-00, P. Block 301	<pre>Main Hydraulic Power - Pressurization/ Depressurization</pre>				
	- 71-00-00, P. Block 401	Power Plant				
R						
	- 71-13-00, P. Block 301	Cowl Doors				

R

3. Procedure

- A. Job Set-Up
 - (1) Make certain that nose and main landing gear ground lock are correctly installed.
 - (2)Depressurize hydraulic systems (Ref. 29-10-00, P. Block 301).
 - (3) Remove power plant (Ref. 71-00-00, P. Block 401).
 - (4)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
 - (5)Install warning notices in flight compartment prohibiting operation of all aircraft systems.
 - (6)Position access platform.

B. Inspection

NOTE : All inspections called for are visual unless otherwise specified in text.

Operators may at their own discretion or at the direction of their Airworthiness Authorities, use non-destructive techniques in compliance with the Non Destructive Testing Manual (NTM). Any work upon a system as a result of the inspection for damage that entails disconnection or removal of components, pipes, ducts, cables electrical connectors and mechanical linkages must be followed by a functional test of the system affected.

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

(1)Pylon

Inspection Tasks to be Accomplished 	Phase 1	2	3	-	
 3	4	5	6	 7	8
 Examine engine pylon		 	 	 	
Examine pylon panels, doors and auxiliary structure for buckling, cracks and pulled or missing fasteners.	X 		 	 	
 Inspect fire protection system.	 X	 	 	 	
Check main frame for distortion, cracks, cracked or flaking paint, loose rivets and evidence of shearing.	X 		 	 	
(1)Remove or open access doors and inspection panels and inspect panels and adjacent structure for distortion, wrinkles, buckles, tearing of plates at	 	x	 		
(2)Inspect - pylon main frame for condition of spars connected to the side panels - attachments between main ribs, the upper and side panels and the lower spar cap. - electrical cables, hydraulic pipes and engine air bleed system components - various components mounted on	 	X 	 		
	Examine engine pylon Examine pylon panels, doors and auxiliary structure for buckling, cracks and pulled or missing fasteners. Inspect fire protection system. Check main frame for distortion, cracks, cracked or flaking paint, loose rivets and evidence of shearing. If damage found (1)Remove or open access doors and inspection panels and inspect panels and adjacent structure for distortion, wrinkles, buckles, tearing of plates at the rivets. (2)Inspect pylon main frame for condition of spars connected to the side panels attachments between main ribs, the upper and side panels and the lower spar cap. electrical cables, hydraulic pipes and engine air bleed system components	Examine engine pylon Examine pylon panels, doors and auxiliary structure for buckling, cracks and pulled or missing fasteners. Inspect fire protection system. Check main frame for distortion, X cracks, cracked or flaking paint, loose rivets and evidence of shearing. If damage found (1) Remove or open access doors and inspection panels and inspect panels and adjacent structure for distortion, wrinkles, buckles, tearing of plates at the rivets. (2) Inspect pylon main frame for condition of spars connected to the side panels attachments between main ribs, the upper and side panels and the lower spar cap. electrical cables, hydraulic pipes and engine air bleed system components	1 2	1 2 3 3 4 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6	1 2 3 Sign

(2)Nacelles

Item Insp.	Inspection Tasks to be Accomplished	Phase	Phase	Phase	Insp.	Ref.	
Code		1 					
1 2	3	4	5	6	7	8	
	:	 X				: :	

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

	1	Code				Accomplished	1	2	3	Sign	Fig.	I
R												I
	l		Ref. 71-13-	-00, P.	. Block	< 301	1	l 		l 		l

R

(3)Engine to pylon and pylon to wing attachments.

<u>NOTE</u>: This inspection will be conducted only if phase 1 check of pylon and nacelle reveals any sign of damage.

Item 	Insp.	Inspection Tasks to be Accomplished	Phase 1	Phase 2	Phase 3	Insp. Sign		
1	2	3	4	5	6 6	7	8 8	
1.	 	Examine engine-to-pylon attach fittings	 	 	 	 		
A.		Carry out detailed inspection of attach fittings under main ribs. (1)Check for evidence of distortion, damage to structure (cracks, rupture) and traces of oxidation or burning.	 	X 	 	 		
2.		Examine pylon-to-wing attach fittings	 	 	 	 		
Α.	 	 Remove fillets.	! 	 X 	 	 		
B. 		Carry out detailed inspection of front and rear engine pylon-to-wing attachment fittings and adjacent structure on front spar between ribs 8 and 10.	 	X 	 	 		

(4)Close-up

Restore system and aircraft to normal operating condition.

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AIRCRAFT MAINTENANCE MANUAL

INSPECTION AFTER IMPACT ON ENGINE COWLS

General

R

This inspection must be conducted after impact on engine cowls.

2. Equipment and Materials

ITEM	DESIGNATION
A. B.	Access Platform 4 m (13 ft-4 in.) Warning Notices
Referenced Procedures	
- 29-10-00, P. Block 301	Main
- 54-51-00, P. Block 601	Main Frame
- 54-51-72, P. Block 601	Forward Attach Fitting
- 54-51-75, P. Block 601	Aft Attach Fitting
- 71-00-00, P. Block 401	Power Plant

3. Procedure

- A. Job Set-Up
 - (1) Make certain that nose and main landing gear ground locks are correctly installed.
 - (2)Install warning notices in the cockpit to tell persons not to operate the systems related to the engines.
 - (3)Position access platform
- **B.** Inspection

NOTE : All inspections called for are visual unless otherwise specified in the text.

								
	Item	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2			Ref. Fig.
	1	 2	3	 4	5	 6	 7	 8
R	1.		Impact applied through the cowls and damage only reported on cowls.	 		 		
	A.	 	Externally examine the fitting rela- ted to the cowl with the adjacent area of the pylon :	X			 	
R	 		(1)pylon panels when damage on thrust reverser or core cowl. (2)cantilever structure when damage on inlet cowl, fan cowl or thrust reverser					
R	 2. 		Impact applied as in para 1 but with subsequent damage to the engine or the equipment/accessories attached to it.	 			 	

EFFECTIVITY: ALL	05·51·2 <i>1</i>
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Item	Insp. Code 	Inspection Tasks to be Accomplished	Phase 1 	Phase 2 		Insp Sign 		
Α.		Examine pylon panels, doors and auxiliary structure for distortion, wrinkles, buckles, tearing of plates at the rivets and stringers attached to panels.	 x 			 	 	
В.		Inspect pylon main frame for distortion cracks, cracked or flaking paint loose rivets and evidence of shearing. If damage found, refer to para C.	 x 			 	 	
C.		Remove or open access doors and inspect panels and adjacent structure for distortion, wrinkles, buckles, tearing of plates at the rivets and stringers attached to panels.		 X 		 	 	
D.		Inspect pylon main frame for distor- tion and condition of spar ribs connected to the side panels. If damage found, refer to para E.	 	 X 		 	 	
Ε.		Depressurize hydraulic systems. (Ref. 29-10-00, P. Block 301) Remove engine. (Ref. 71-00-00, P. Block 401)	 		 X 	 	 	
F.		Inspect forward and aft engine pylon attachments for distortion or cracks. (Ref. 54-51-00, P. Block 601)	 		 X 	 	 	
G.	 	Remove fillets	 		 X	 	 	
н.		Inspect forward and aft pylon-to-wing attachments (Ribs 12 and 18) for distortion or cracks (Ref. 54-51-72, P. Block 601 and Ref. 54-51-75, P. Block 601)	 	 	 X 	 	 	

4. <u>Close-Up</u>
Restore system and aircraft to normal operating condition.

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AIRCRAFT MAINTENANCE MANUAL

INSPECTION AFTER SPILLAGE

1. Reason for the Job Self Explanatory

2. Equipment and Materials

DESIGNATION ______

Referenced Procedures

- 51-78-00, P. Block 701 Cleaning Processes

3. Procedure

- A. Job Set-Up (1)Not Applicable
- B. Inspection

(1)Refer to the applicable procedure(s):

- For aircraft cleaning after a sewage leakage (Ref. 51-78-00, P. Block 701)
- For aircraft cleaning after a hydraulic fluid leakage (Ref. 51-78-00, P. Block 701)
- For aircraft cleaning after leakage from a fish shipment (Ref. 51-78-00, P. Block 701)
- For aircraft cleaning after an acid or alkali leakage (Ref. 51-78-00, P. Block 701)
- For inspection after mercury spillage (Ref. 51-78-00, P. Block 701).

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

INSPECTION AFTER ABNORMAL PAX/CREW DOOR MOVEMENT

1. General

This inspection is to be carried out in case of abnormal pax/crew door movement, like lifting or pushing down by a loader or jet way.

2. Equipment and Materials

	ITEM	DESIGNATION
	A.	Access Platform 4.6 to 5.2 m (15 to 17 ft)
	B. 98A52108008000	Ballast Weight - Passenger/Crew Doors
R	C. 98A52107632000	Pin - Safety Slide
	Referenced Procedures	
	- 25-23-41, P. Block 401	Door Frame Linings
	- 25-61-21, P. Block 401	Dual Escape Slide
	- 25-61-22, P. Block 401	Slide/Raft
	- 52-10-00, P. Block 301	Passenger/Crew Doors
	- 52-10-00, P. Block 501	Passenger/Crew Doors
	- 52-10-13, P. Block 401	FWD, AFT Door Lining and Insulation
	- 52-10-31, P. Block 401	FWD, AFT Door Latch and Stop Fittings
	- 52-11-11, P. Block 401	LH and RH Forward Passenger/Crew Door
	- 52-11-12, P. Block 401	Door Suspension
	- 52-13-11, P. Block 401	AFT Passenger/Crew Door
	- 52-13-12, P. Block 401	Suspension

3. Procedure

- A. Job Set-up
 - (a)Position access platform.

Following procedure is only applicable for phases 2 and 3.

- (b)Safety emergency escape slide, door damper and emergency operation cylinder and door warning system (Ref. 52-10-00, P. Block 301).
- (c)Rémove either container with double escape slide (Ref. 25-61-21, P. Block 401) or container with slide raft (Ref. 25-61-22, P. Block 401).
- (d)Remove door frame linings (Ref. 25-23-41, P. Block 401).
- (e) Remove door lining and insulation (Ref. 52-10-13, P. Block 401).
- (f)Install ballast weight assy P/N 98A52108008000.
- B. Inspection of the passenger/crew door
 (Ref. Fig. 001)

(Ref. Fig. 002)

Item Insp Code	·	Phase 1	2	3	Sign	Det.
 1 2	3	 4		•	•	
 1.	Visual Inspection of the Door		 	 	 	
 A.	Perform visual inspection of the	 X		! 	! 	! !

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	Insp Code	•	1	2	3	Sign	Det.
1		3	 4	 5	 6	 7	
 		door: - skin in upper and lower area for distortions, crack or tearing - door seal retainer - girt bar.	 X X	 	 	 	
В.		Check opening and closing of the door.	X 	 	 	 	
		(1) Check for absence of abnormal noises or hard points.(2) Check for free movement of the guide arms.	X X 	 	 	 	
C.	 	Check clearance between door edge and frame panel.	 X 	 	 	 	
 	 	(1) Clearance identical on the whole door periphery (Ref. 52-10-00, P. Block 501).	x 	 	 	 	
		(2) Check for door outer contour offsets to door frame.	x 	 	 	 	
D.		Check escape slide release mechanism. (1) For absence of abnormal noise or hard point.	 X X	 	 	 	
		(2) Check for free movement of armed/disarmed handle.	x 	 	 	 	
		If damage found:	! 	 	 	 	
2.	 	Detailed Inspection Without Removal	! 	 	 	! 	
A.		Inspect support arm.(1) Check support arm for cracks, distortions or damaged paint.	 	 X X	 	 	
		(2) Check support arm attachment fittings to door frame for distortions or torn apart	 	X 	 	 	F
		<pre>fasteners. (3) Check condition of door side connection links for distortions or damaged paint.</pre>	 	 X 	 	 	 G,H
B.		<pre>Inspect guide arms. (1) Check upper and lower guide arm wrinkling.</pre>	 	 X 	 	 	

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	Insp Code	Inspection Tasks to be Accomplished	Phase 1		3	Sign	
1		3	4	5	 6	 7	8
		attachment fitting for distortions or torn apart fasteners. (3) On door side, check guide arm attach fitting for tearing.	 	 x	 	 	
	 	If damage found:	 	 	 -	 !	
3.	 	Detailed Inspection with Removal	 -	 	 -	 	
Α.		Remove door. (Ref. 52-11-11, P. Block 401; 52-13-11, P. Block 401)	 	 	 	 	
В.		Support Arm Inspection (1) Remove support arm. (Ref. 52-11-12, P. Block 401; 52-13-12, P. Block 401)	 	 	 	 	
		(2) Inspect support arm for distortions, cracks or damaged paint.(3) Remove support arm attachment fittings on frame.	 	 	x 	 	
		(Ref. 52-10-31, P. Block 401) (4) Check the under fitting area on frame, for cracks or distortions and elongated holes in frame web.	 	 	 x 	 	 F
С.		Guide Arm Inspection (1) Remove guide arms. (Ref. 52-11-12, P. Block 401;	 	 	 	 	
	 	52-13-12, P. Block 401) (2) Check guide arms for buckling. (3) Remove the guide arm attachment fittings on frame side.	 	 	 x 	 	
		(Ref. 52-10-31, P. Block 401) (4) Check the under fitting frame area for cracks or distortions, and elongated holes in beam web.	 	 	 x 	 	 C,
D.		Door Inspection Perform a visual inspection of the door inner structure (especially at frame and beam where support arm is attached), the support arm and guide	 	 	 	 	

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	Insp Code	•		Phase	2	3	Sign	Det.
1	2	3		4	 5			
 		arm fittings. Perform visual inspection of th	e	 			 	

C. Close-up

- (1) Remove ballast weight assy P/N 98A52108008000.
- (2)Install door lining and insulation (Ref. 52-10-13, P. Block 401).
- (3)Install door frame lining (Ref. 25-23-41, P. Block 401).
- (c)Install either container with double escape slide (Ref. 25-61-21,
 - P. Block 401) or container with slide raft (Ref. 25-61-22,
 - P. Block 401).

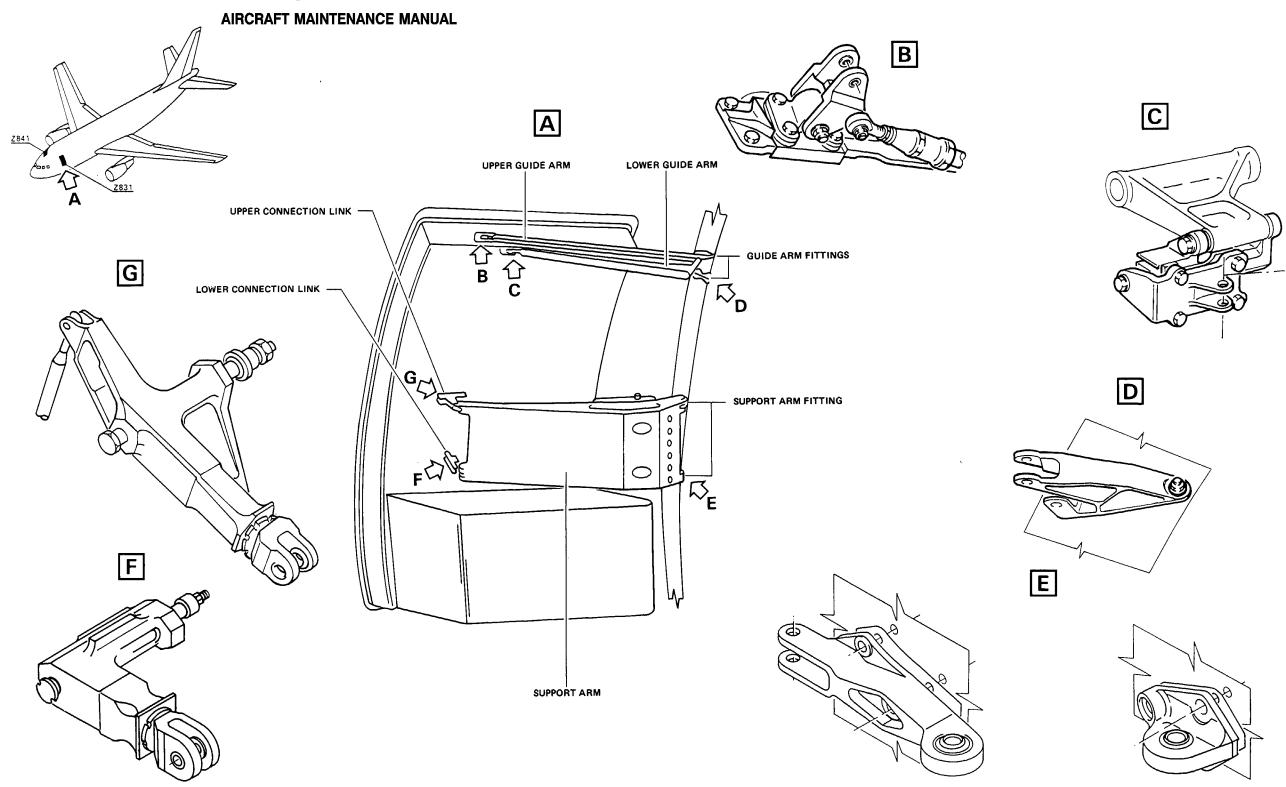
WARNING: SPECIAL PRECAUTIONS MUST BE FOLLOWED.

- (5)Arm door damper and emergency operation cylinder and door warning system (Ref. 52-10-00, P. Block 301).
- (6)Close door.
- (7) Remove access platform.

EFFECTIVITY: ALL

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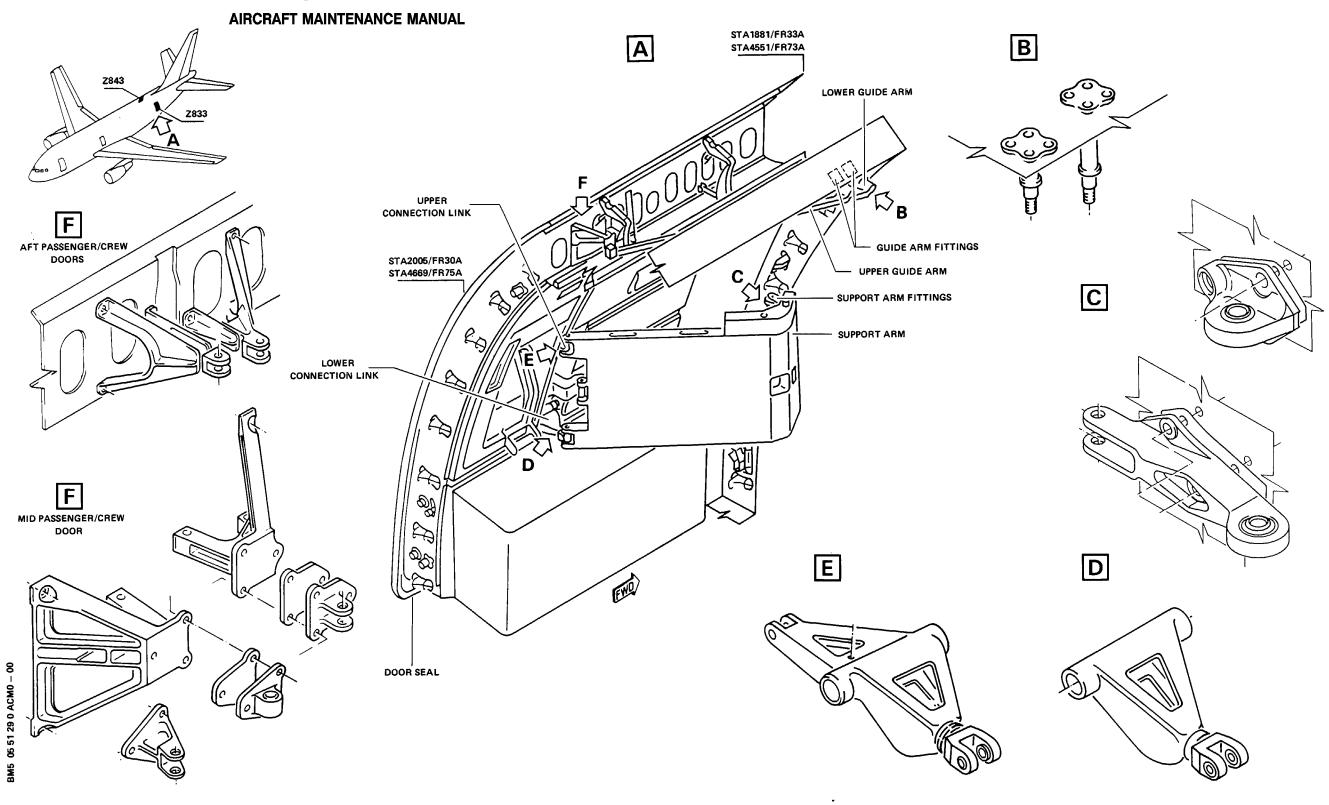
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FWD Passenger/Crew Doors Figure 001



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Aft Passenger/Crew Doors Figure 002

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AIRCRAFT MAINTENANCE MANUAL

INSPECTION AFTER ABNORMAL CARGO DOOR MOVEMENT

General

R This inspection is to be carried out in case of abnormal CARGO door movement like lifting or pushing down by a loader or jet way.

2. Equipment and Materials

ITEM	DESIGNATION
Α.	Access Platform, 2.30 m (7.50 ft.)
Referenced Procedures	
- 52-30-00, P. Block 1	Cargo Compartment Doors
- 52-30-13, P. Block 401	FWD, AFT Cargo Door Lining and Insulation
- 52-31-11, P. Block 401	FWD Cargo Compartment Door
- 52-32-11, P. Block 401	Aft Cargo Compartment Door
- 52-31-11, P. Block 601	FWD Cargo Compartment Door
- 52-32-11, P. Block 601	AFT Cargo Compartment Door

R 3. Procedure

R

- R A. Job Set-Up
 - (1)Position access platform.
- R (2)Open cargo compartment door (Ref. 52-30-00, P. Block 1).
- R (3)Remove door lining and insulation (Ref. 52-30-13, P. Block 401).
- R B. Inspection (Ref. Fig. 001, 002)

R R	Item 	Insp Code		Phase 1	Phase 2	Phase 3	Insp Sign	Ref. Fig.	
	1	2	3 3			6		 8 	
	 1. 	 	 Visual Inspection of the Door	 			 		
	A.	 	 Perform visual inspection of the door :	 X 	 		 		
	: 	; 	- inner and outer skin for distortion, cracks or tearing	x 			 		
	 	 	 - door seal retainer. 	 X	 		 	c	
	 B. 	 	 Check opening and closing of the door	 X 	 		 		
	 	 	(1)Check for absence of abnormal noises or hard	X 			 		
	 	 	points. (2)Check for free movement of the hinge arms.	 X 	 	 	 		

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2 3		5	6	 7 	 8
door edge and frame panel (1)Check gap of skin (Ref. 52-31-11, P. Block 601) (Ref. 52-32-11, P. Block 601) (2)Check for door outer contour offsets to door frame (Ref. 52-31-11, P. Block 601) (Ref. 52-32-11, P. Block 601).	X			 	
(1)Check gap of skin (Ref. 52-31-11, P. Block 601) (Ref. 52-32-11, P. Block 601) (2)Check for door outer contour offsets to door frame (Ref. 52-31-11, P. Block 601) (Ref. 52-32-11, P. Block 601).				 	
contour offsets to door frame (Ref. 52-31-11, P. Block 601) (Ref. 52-32-11, P. Block 601).	x			İ	1
IT damage Tound				 	
1				 	
Detailed Inspection Without Removal.				 	
Inspect hinge arm. (1)Check hinge arm for cracks, distortion or damaged paint.	x			 	
Inspect door hooks (1)Check that the hooks are in line with the door frame (Ref. 52-31-11, P. Block 601) (Ref. 52-32-11, P. Block 601)		X		 	 B
(2)If the hook is not in line with the frame, check, the frame fork (Ref. 52-31-11, P. Block 601) (Ref. 52-32-11, P. Block 601)		X		 	
		X		 	
	line with the frame, check, the frame fork (Ref. 52-31-11, P. Block 601) (Ref. 52-32-11,	line with the frame, check, the frame fork (Ref. 52-31-11, P. Block 601) (Ref. 52-32-11, P. Block 601) Inspect the actuator lattachments. (1)Check the longitudinal bracket in the cabin	line with the frame,	line with the frame,	line with the frame,

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Item	Insp Code	Inspection Tasks to be Pha Accomplished 		Phase 2	Phase 3	Insp Sign	Ref. Fig.
1 1	2	3	4	5	6	7	8
		cracks at the drain holes.		 	 	 	
	 	(2)Check the fittings at the cargo door for cracks, distortion or damage paint. If damage found		X 		 	
 3. 	 	 Detailed Inspection With		 	 	 	
A.		Remove door (Ref. 52-31-11, P. Block 401) (Ref. 52-32-11, P. Block 401). Send to workshop for		 	 X 	 	
 	 	overhaul. Perform a visual inspection of the door inner structure (especially at frame hooks and where the actuator is attached).		 	 X 	 	

4. Close-Up

- A. Install door linings and insulation (Ref. 52-30-13, P. Block 401).
- B. Close cargo compartment door (Ref. 52-30-00, P. Block 1).
- C. Remove access platform.

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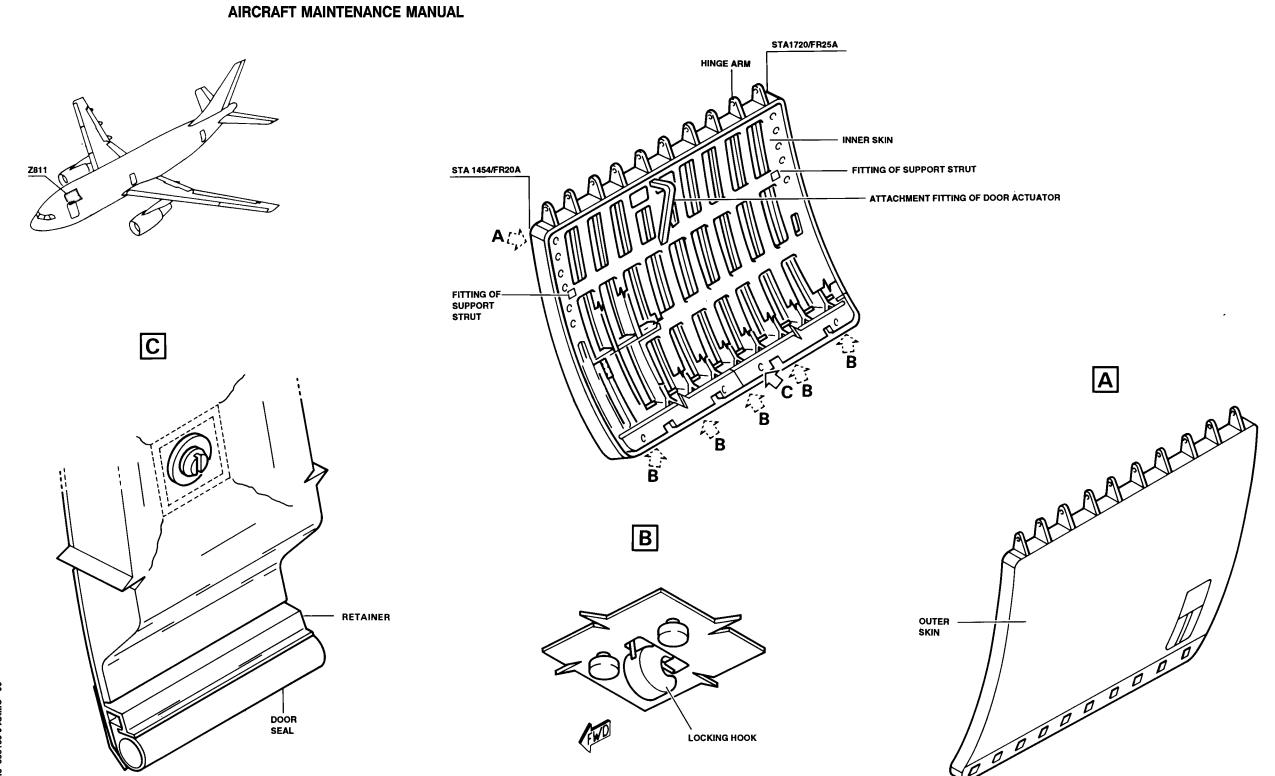
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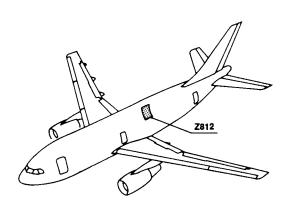
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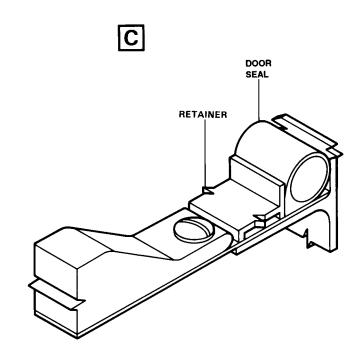
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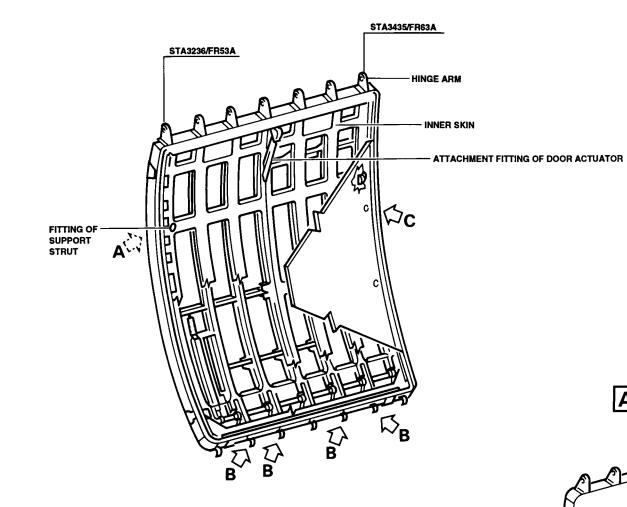


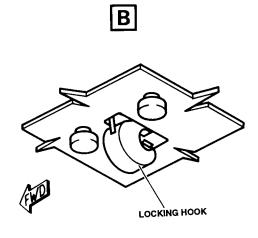
FWD Cargo Compartment Door Figure 001

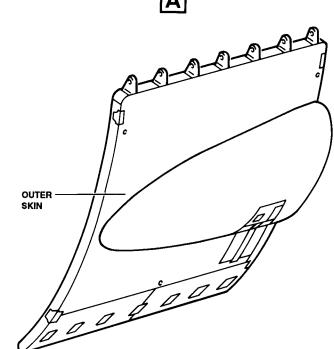












AFT Cargo Compartment Door Figure 002

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AIRCRAFT MAINTENANCE MANUAL

MAIN LANDING GEAR INSPECTION AFTER STEERING ANGLE EXCEEDED AT MAXIMUM PERMISSIBLE WEIGHTS

1. General

The rotation movements during aircraft wheel steering can cause damage to the main landing gear.

These inspections must be performed when the maximum steering angle is exceeded at maximum permissible weights (Ref. MM 09-11-00, P. Block 1).

2. Equipment and Materials

ITEM DESIGNATION

A. Warning Notices

Referenced Procedures
- 07-11-00, P. Block 1 Lifting and Jacking
- 32-11-27, P. Block 401 Torque Links - Main Gear
- 32-11-11, P. Block 401 Leg Main Gear

3. Procedure

A. Job Set-Up

(1) Make certain that landing gear ground safety locks are fitted correctly. (2) Jack-up aircraft (Ref. 07-11-00, P. Block 1).

B. Inspection

 $\underline{\text{NOTE}}$: The more critical part is the torque link upper arm (Ref. Fig. 001).

Item	Insp	•	Phase					
	C ode	Accomplished	1	2 	5 	Sign 	Det. Fig.	
1	 2	3	4	5	6	 7	8	
1.		On MLG		 	 	 	 	
A. 		Remove torque link upper arm for bay overhaul (Ref. 32-11-27, P. Block 401).		 	X 	 	 	
 (1) 		Check that the misalignment of the upper forks is ≤ 0.1 mm (0.0039 in.) NOTE: Remove the bushes to perform this measurement.	 	 	 X 	 	 A1 	
 		If damage is found, remove the landing gear leg for bay overhaul (Ref. 32-11-11, P. Block 401).	 	 	 	 	 	
(2)		Check that the misalignment between the upper hinge shaft and the center		 	 X 	 	 A2 	

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-		Insp Code	· ·		Phase 2 		Sign		
	 1	 2	3	 4	 5	 6	 7	 8	i I
	 		hinge shaft is ≤ 0.01 mm (0.0004 in.).	 	 				
		 	If damage is found, remove the LG leg						
		 	for bay overhaul (Ref. 32-11-11, P. Block 401).	 	 				

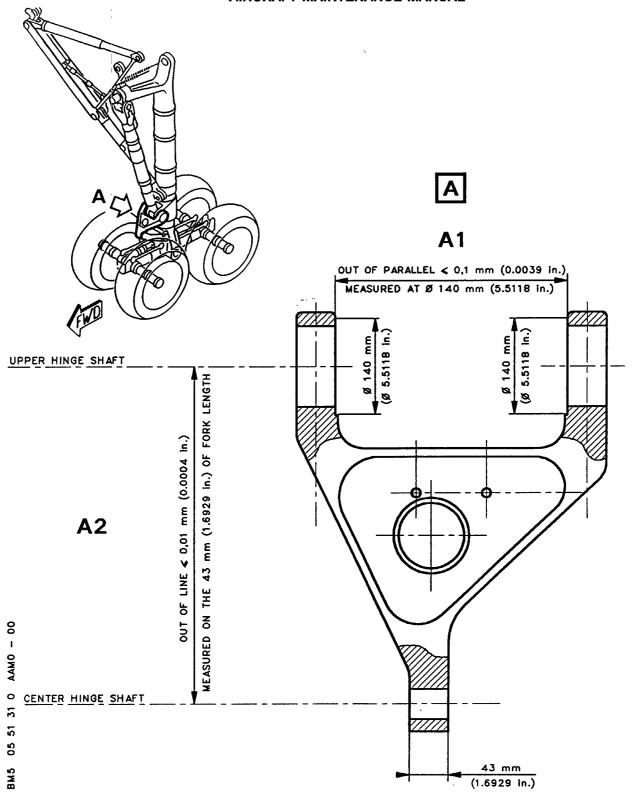
C. Close-Up

- (1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
- (2)Lower aircraft onto its wheels (Ref. 07-11-00, P. Block 1).
- (3)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment, all access equipment and miscellaneous items.

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AIRCRAFT MAINTENANCE MANUAL



Torque Link Upper Arm Figure 001

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AIRCRAFT MAINTENANCE MANUAL

INSPECTION AFTER ENGINE WINDMILLING (AFTER ENGINE IN-FLIGHT SHUT-DOWN)

1		Ρ	ro	се	dυ	ıre
---	--	---	----	----	----	-----

		Materials			
ITEM			DESIGNATION		

Referenced Procedures

- 72-00-00, P. Block 601

Engine - General

B. Inspection

(1)Do the inspection after engine windmilling (Ref. 72-00-00, P. Block 601).

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INSPECTION AFTER OVERWEIGHT TAXIING

1. General

Overweight taxiing is defined as taxiing at a weight that is more than the Maximum design Taxi Weight (MTW).

NOTE: Before flight, you must decrease aircraft weight to that specified in the Aircraft Flight Manual for takeoff.

You must do this inspection if you taxi the aircraft at an overweight of more than 2 % of the Maximum design Taxi Weight (MTW).

You must do this inspection if you taxi an overweight aircraft (regardless of percentage over MTW) and have one of these conditions (or more):

- high speed ground turn or sharp radius turn
- heavy braking
- taxi over rough pavement
- pivot (sharp radius turn with brake on)
- deflated tire.

2. Equipment and Materials

ITEM	DESIGNATION
Referenced Procedures	
- 12-37-32, P. Block 1	Wheel Replacement
- 32-11-13, P. Block 401	Main Gear Shock Absorber
- 32-11-14, P. Block 401	Bogie Beam
- 32-11-16, P. Block 401	Brace Strut
- 32-11-17, P. Block 401	Lock Link Assembly
- 32-11-18, P. Block 401	Cross Brace Assembly
- 32-12-11, P. Block 301	Main Gear Main Door
- 32-21-14, P. Block 401	Nose Gear Shock Absorber
- 32-22-11, P. Block 301	Nose Gear Main Door
- 32-31-22, P. Block 401	Nose Gear Actuating Cylinder
- 32-31-24, P. Block 401	Nose Gear Telescopic Strut Assy
- 32-31-55, P. Block 401	Brace Strut - Actuating Cylinder

3. Procedure

- A. Job Set-Up
 - (1) Make sure that the safety devices are installed on the landing gears.
 - (2)Open and safety the main gears doors (Ref. 32-12-11, P. Block 301).
 - (3)Open and safety the nose gear doors (Ref. 32-22-11, P. Block 301).

B. Inspection

-	-	INSP		PHASE					
		CODE		1 					
	1	2		4					
 	A.	 	Inspection of the NLG	 			 	 	

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ITEM 	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE	:	INSP SIGN	:
1 	 2 	3	4	 5 	 6	 7	 8
 		(1)Do a visual inspection of the wheels for distorsion, cracks and damaged paintwork.	X	 	 	 	
		If you find damage: (a)Remove the wheels		 X	 	 	
 	 	<pre>(Ref. 12-37-32, P. Block 1) (b)Do a visual inspection of the axle and wheels for damage.</pre>	 	 X	 	 	
 		If you find damage: - tell Airbus Industrie about	 	 	 X	! 	
 	 	<pre>the results. (2)Examine :</pre>	 x		 	 	
 		 the nose landing gear and all the components installed on it for cracks, scores, tears, 			 	 	
 	 	<pre>rupture, leakage and damaged paintwork the attachment fittings of the</pre>	 	 	 	 	
 		nose landing gear. If you find damage:	 		 	 	
 	 	(a)Tell Airbus Industrie about the results.	 	X 	 	 	
 	 	<pre>(b)In the avionics compartment, examine : - the frame 17</pre>	 	X 	 	 	
 	 	the gear well roof,the roof-to-sidewall joint,the floor support-strut	 	 	 	 	
 	 	attach-fittings for distortion, cracks, pulled or torn fasteners and damaged	 	 	 	 	
 		paintwork. If you find damage : - tell Airbus Industrie about		 	 	 	
 	 	the results. (3)Examine the shock absorber for	 X	 	X 	! 	
 		external oil leaks. If you find damage :	 	 	 	 	
 	 	remove the shock absorber for overhaul: (Ref. 32-21-14, P. Block 401)	 	X 	 	 	
 		<pre>(refer to the manufacturer's instructions for the overhaul</pre>			i !	i !	
 	 	<pre>procedure). (4)Examine the telescopic strut assy and its attachment fittings for</pre>	 X 	 	 	 	

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ITEM	INSP CODE		PHASE 1	PHASE	:	INSP SIGN	:
1	 2 	3	 4 	 5 	 6 	 7 	 8
	 	<pre>distortion, cracks and damaged paintwork. If you find damage :</pre>	 	 	 	 	
	i i ! !	<pre>(a)Remove the telescopic strut assy for overhaul :</pre>	 -	x	 !	j !	j
	 	(Ref. 32-31-24, P. Block 401) (refer to the manufacturer's instructions for the overhaul	 	 	 	 	
	 	<pre>procedure) (b)On the aircraft, inspect the attachment fittings for</pre>	 	 X	 	 	
		damage. If you find damage :	 	 	 	 	
	 	 tell Airbus Industrie about the results. (5)Examine the NLG actuating cylinder 	 x	 	X 	 	
	 	and its attachment fittings for distortion, cracks, pulled or	^ 	 	 	 	
	 	torn fasteners and damaged paintwork. If you find damage :	 	 	 	 	
		(a)Remove the actuating cylinder for strip-down inspection (Ref. 32-31-22, P. Block 401) (refer to the manufacturer's instructions for the strip-down	 	x 	 	 	
		<pre>inspection). (b)On the aircraft, continue the</pre>	 	 X	 	 	
	 	<pre>inspection of the attachment fittings and the gear well (all the items you can see) for</pre>	 	 	 	 	
	 	distortion, pulled or torn fasteners and damaged paintwork. If you find damage:	 	 	 	 	
	 	 tell Airbus Industrie about the results. (6)If you removed components, install 	 	 	X 	 	
	 	<pre>serviceable components : - for the actuating cylinder</pre>	 	 	 	 	
	 	(Ref. 32-31-22, P. Block 401) - for the telescopic strut assy (Ref. 32-31-24, P. Block 401)	 	 	 	 	
		for the shock absorber(Ref. 32-21-14, P. Block 401)	 	 	 	 	
	 	for the wheels(Ref. 12-37-32, P. Block 1).	 	 	 	 	

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	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2		INSP SIGN	
1 	 2 	3		5 	 6 	 7 	 8
В.	 	Inspection of the MLG			 	 	
	 	(1)Do a visual inspection of the	X			 	
		wheels for distortion, cracks and					
	!!	damaged paintwork.	!			<u> </u>	!
	!!	If you find damage:					!
		(a)Do the inspection of the axle		X			
		and the axle sleeve for damage				 	
	 	and out-of-roundness			<u> </u>] 	
	 	(Ref. 32-11-14, P. Block 601) If you find damage:	I		 	 	
	 	- tell Airbus Industrie about			 X	I 	l
		the results.			^	! 	
	i i	(2)Examine :	i x		<u> </u>	' 	
	i i	- the MLG and all the components	i		İ	İ	
j	İİ	installed on it for cracks,	ĺ				ĺ
		distortion, scores, tears,					
		rupture, leakage and damaged					
		paintwork (specially the drag					
	!!	stay blend area and the torque	!			<u> </u>	!
		links)					
		- the attachment fittings of the			<u> </u>	 	
	 	<pre>MLG. If you find damage :</pre>	I I		 	l I	
	 	(a)Tell Airbus Industrie about the		X	l İ	I 	!
		results.		, 	! 	! 	!
	i i	(b)Examine the MLG well (all the	i	Х	<u> </u>	' 	
	i i	items you can see) for	į i		İ		İ
		distortion, cracks, pulled or					
		torn fasteners and damaged					
	!!	paintwork.	!				!
	!!	If you find damage:	!				!
		- tell Airbus Industrie about			X		
		the results.			 	 	
	 	<pre>(c)Examine the aft face of the wing rear spar, gear rib 5 and top</pre>	1	X	 	 	
	! ! ! !	and bottom skins for distortion,	I] 	! 	l I
		cracks, pulled or torn fasteners			! 	! 	!
	i i	and damaged paintwork.	i i		! 	' 	
	į į	If you find damage:	j i	j	İ		
j	Ιİ	- tell Airbus Industrie about	1				
		the results.			X		
		(3)Examine the shock-absorber	X				
		sliding rod for external oil					[
	ı İ	leaks.					

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	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE	PHASE 3	INSP SIGN	
 1	 2	3	 4		6	 7	 8
۱ ا		If you find damage:					
 	 	<pre>(a)Replace the shock absorber seals :</pre>	[[X 		 	
i	i i	(Ref. 32-11-13, P. Block 401)	j i			İ	
		(4)Examine the brace strut assy and	X			l	
ļ		its attachment fittings for					
ļ		distortion, cracks and damaged	<u> </u>				
ļ		paintwork.	!			ļ	
. !	!!	If you find damage :	!			!	
. !	. !	(a)Remove the brace strut assy for		X		<u> </u>	
ļ		overhaul.					
ļ		(Ref. 32-11-16, P. Block 401)					
		(refer to the manufacturer's				 	
l		instructions for the overhaul				 	
l I		procedure).	 	 v		 	
l I		(b)On the aircraft, continue the	 	X		 	
l I	 	<pre>inspection of the brace strut attachment-fitting.</pre>	I .	l		l I	l I
l I	 	If you find damage:	I] 	<u> </u>	! !	
l I		- tell Airbus Industrie about	I	l I	X	l I	!
ı I		the results.	I	l I	^	l I	
ı İ		(5)Examine the lock links, the brace	x	l I		l I	!
ľ	ii	strut actuating-cylinder, the cross		l I		i i	!
i	i i	brace and their attachment fittings	i	i i		i	!
i	i i	for distortion, cracks, damaged	i			i	!
i	i i	paintwork and hydraulic leakage.	i			İ	
i	i i	If you find damage:	i			İ	
i	i i	(a)Remove the lock links, the brace	i i	X		i i	İ
į	i i	strut actuating-cylinder and the	j i	ĺ		İ	İ
į	i i	cross brace for overhaul	j i	İ		İ	İ
ĺ	ĺĺ	(Ref. 32-11-17, P. Block 401)	İ				
		(Ref. 32-31-55, P. Block 401)					
		(Ref. 32-11-18, P. Block 401)					
		(refer to the manufacturer's					
		instructions for the overhaul					
		procedure).					
		(b)On the aircraft, continue the		X			
ļ		inspection of the attachment					
		fittings for damage.	<u> </u>			ļ	
	!!	If you find damage:					
ļ		- tell Airbus Industrie about			X	ļ	
ļ		the results.					
ļ		(6)If you removed components, install				 	
		serviceable components :		 	 	 	[
ļ	! !	for the cross brace (Ref. 32-11-18, P. Block 401)	1			l	

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ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2	:	INSP SIGN	:
1 	 2 	3		5	 6	 7	
		 for the brace strut actuating-cylinder (Ref. 32-31-55, P. Block 401) for the lock links (Ref. 32-11-17, P. Block 401) for the brace strut assy (Ref. 32-11-16, P. Block 401) 	 			 	
C.	 	Inspection of the fuselage	 		 	 	
		(1)Initial inspection (a)Examine the canted frames at the boundaries of the wheel wells, their junctions, the fittings at	 x 		 	 	
		frame 50A and adjacent areas. (b)Examine the bearing housings of the main gear brace strut attachment at frame 50A	 x 		 	 	
	 	<pre>(2)If you find damage during the inspection of the parts above or the landing gears in phase 1 : (a)Examine the front fuselage :</pre>	 		 	 	
		 examine the upper shell from frame 26 to frame 38 between stringers P13 and P'13 for buckling and look for 	 	X 	 	 	
	 	 permanent deformation. do a check of the gap between the cargo door and the cargo door stop-fittings for change. 	 	X	 	 	
 	 	 examine the rivets around the windows between frame 42 and frame 48. 	 	X	 	 	
		<pre>(b)Examine the rear fuselage : - first examine the lower shell from frame 55 to frame 61, between stringers P47 and P'47 - then examine the lower shell from frame 65 to frame 72</pre>	 	x	 	 	
		between stringers P45 and P'45 - then examine the shells around the cargo door frame for buckling, loose rivets, cracked or flaked paint and look for permanent deformation - do a check of the gap between	 	 X	 	 	

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	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2		INSP SIGN	
1 1	2	3	4	5	6	7	8
 	 	the cargo door and the cargo door stop-fittings for change.	 	 		 	
		- examine the skin rivets from		X			[
		frame 65 to frame 72 between	ļ				!
		stringers P22 and P28, LH and	ļ			<u> </u>	ļ
		and RH, for loose rivets.	ļ				ļ
		(c)If you find damage during the					
		above phase 2 :					
		- examine two roller tracks on			X		
		the right side and two rollers	[
		tracks on the left side of the					
		centerline (only in cargo	[
		compartment II).					
		- examine the struts of the	[X		1
	l İ	frame segments between frame					1
	l İ	54 and frame 60 (cargo	1	l			I
1	l İ	compartment II).	1	l			I

C. Close-Up

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- (1) Make sure that the work area is clean and clear of tool(s) and other items.
- (2) Remove the ground support and maintenance equipment, the special and standard tools and all other items.
- (3)Close the main gears doors (Ref. 32-12-11, P. Block 301).
- (4)Close the nose gear doors (Ref. 32-22-11, P. Block 301).

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INSPECTION AFTER VERY HIGH WINDS ON GROUND - INSPECTION/CHECK

WARNING: WEAR AND ATTACH A SAFETY HARNESS WHEN YOU WORK ON HIGH SECTION.

A FALL CAN KILL OR INJURE YOU.

WARNING: MAKE SURE THAT THE SAFETY DEVICES AND THE WARNING NOTICES ARE IN

POSITION BEFORE YOU START A TASK ON OR NEAR:

- THE FLIGHT CONTROLS

- THE FLIGHT CONTROL SURFACES

- THE LANDING GEAR AND THE RELATED DOORS

- COMPONENTS THAT MOVE.

MOVEMENT OF COMPONENTS CAN KILL OR INJURE PERSONS.

1. General

You must do this inspection if the aircraft was in very high winds on the ground (wind speed of more than 80 knots (150 KM/H)).

NOTE : This procedure is for an aircraft that was in the moored configuration before it was in very high winds.

2. Equipment and Materials

ITEM	DESIGNATION
No specific	Warning Notices
No specific	Adjustable Access Platform 11 m (36 ft. 1 in.)
Referenced Procedures	
- 24-41-00, P. Block 301	AC External Power Control
- 27-24-00, P. Block 501	Hydraulic Actuation (Rudder)
- 27-34-00, P. Block 501	Hydraulic Actuation (ELevator)
- 27-50-00, P. Block 301	Flaps
- 27-54-00, P. Block 501	Hydraulic Actuation and Power Transmission
	(Flaps)
- 27-60-00, P. Block 301	Spoilers and Speedbrakes
- 27-64-00, P. Block 501	Hydraulic Actuation (Spoilers and Speedbrakes)
- 27-80-00, P. Block 301	Lift Augmenting (Slats and Krueger Flaps)
- 27-84-00, P. Block 501	Hydraulic Actuation and Power Transmission
	(Slats)
- 29-00-00, P. Block 301	Hydraulic Power - General
- 32-12-11, P. Block 301	Main Gear Main Door
- 32-22-11, P. Block 301	Nose Gear Main Door
- 55-16-11, P. Block 601	Attach Fittings - Trimmable Horizontal
-	Stabilizer
- 55-26-11, P. Block 601	Attach Fittings - Elevator
- 55-30-00, P. Block 601	Vertical Stabilizer
-	

3. Procedure

A. Job Set-Up

(1) Make sure that the safety devices are installed on the landing gears.

(2)Open and safety the main gear doors (Ref. 32-12-11, P. Block 301).

(3) Open and safety the nose gear doors (Ref. 32-22-11, P. Block 301).

(4) Extend the flaps (Ref. 27-50-00, P. Block 301).

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- (5) Extend the slats (Ref. 27-80-00, P. Block 301).
- (6)Extend the spoilers (Ref. 27-60-00, P. Block 301).
- (7) Make sure that the electrical circuits are de-energized (Ref. 24-41-00, P. Block 301)
- (8) Make sure that the hydraulic systems are depressurized (Ref. 29-00-00, P. Block 301).
- (9) Put warning notices in the cockpit to tell persons not to operate the flight control surfaces.
- (10) Put the adjustable access platform in position near the area you must examine.

B. General External Inspection

· ------

ITEM	INSP	INSPECTION TASKS	PHASE	PHASE	PHASE	INSP	REF.	ı
	CODE		1	2	3	SIGN	FIG.	ı
	·							
1		General External Inspection						ı
								ı
A.		Do a general visual inspection of the	X					ı
		aircraft from the ground for						i
		distortion, damage and fluid leakage						ı

C. Inspection of the Landing Gear

ITEM 	INSP CODE	INSPECTION TASKS	PHASE	PHASE 2	PHASE	-	REF. FIG.	
	 	Inspection of the Landing Gear			 	 		
A.		Nose Landing Gear			 	 		
		<pre>(1)Examine the NLG, its attachment fittings on the structure and all the components installed on the NLG for : - distortion, - leakage, - defective attachment, - other damage. NOTE : Carefully examine the</pre>	X					
 B. 	 	Main Landing Gear			 	 		
 		(1)Examine the MLG, its attachment fittings on structure, the side stay, the forward and aft pintle fittings and all the components installed on the MLG for:	X		 	 		

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ITEM	INSP CODE	INSPECTION TASKS	PHASE 1	PHASE 2	PHASE 3	INSP SIGN		
1 1		Inspection of the Landing Gear	 	 	 	 		
		- distortion,	 		 	 		ĺ
		- leakage,						
		 defective attachment, 	[l
		- other damage.	[
		NOTE: Carefully examine the						
1		hydraulic and electrical	[
		connections.			l			

D. Inspection of the Flight Control Surfaces
 (Ref. 55-16-11, P. Block 601), (Ref. 55-26-11, P. Block 601),
 (Ref. 55-30-00, P. Block 601), (Ref. 27-24-00, P. Block 501),
 (Ref. 27-34-00, P. Block 501), (Ref. 27-54-00, P. Block 501),
 (Ref. 27-64-00, P. Block 501), (Ref. 27-84-00, P. Block 501).

I1	EM INSP CODE		PHASE 1	PHASE	PHASE 3	INSP SIGN		
		Inspection of the Flight Control Surfaces		 	 	 - 	 - 	
4		Rudder		 	 		 	
 		(1)Examine the rudder external surface for distortion and damage	X	 br>	 			
		<pre>(2)Do a detailed visual inspection (Ref. 55-30-00, P. Block 601) of the actuator fittings 1, 2 and 3 at : - the vertical stabilizer center-box, - the rudder front spar. NOTE: Carefully examine the actuator fitting lugs and the areas of the fittings around the fasteners.</pre>	X X		 			
Ė	.	Elevators		 	 	 	 	
		(1)Examine the elevator external surface for distortion and damage (2)Do a detailed visual inspection (Ref. 55-16-11, P. Block 601) (Ref. 55-26-11, P. Block 601) of these parts in the actuator	x x		 		 	

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ITEM	INSP CODE		PHASE 1	PHASE 2	:	INSP SIGN	
 1		<pre>Inspection of the Flight Control Surfaces - the actuator fittings 1 and 2 and their attachments, - the hinge fittings 2, 3 and 4 and their attachments, - the hinge arms 2, 3 and 4 and their attachments, at the horizontal stabilizer rear-spar and at the elevator front spar.</pre>	 	 	 		
C.	 	Flaps		 	 	 	
		(1)Do a general visual inspection of each control surface and its attachments for distortion and damage.	 X 	 	 	 	
		(2)Do a visual inspection of the flap track fairings for distortion and damage.	x 	 	 	 	
		(3)Examine the external surface and the attachments of each control surface for distortion and damage.	x 	 	 	 	
D.	 	Spoiler	 	 	 	 	
	 	(1)Do a detailed visual inspection of the hinge fittings 1 and 2 and their attachments.	X 	 	 	 	
2	 	Operational Test of the Flight Control Surfaces	 	 	 	 	
A.		Make sure that the work area is clean and clear of tool(s) and other items	 X 	 	 	 	
B.		Do an operational test of each control surface and make sure that the related surface(s) move(s) smoothly and freely	X 	 	 	 	
		<pre>(1)For the rudder : (Ref. 27-24-00, P. Block 501) (2)For the elevators :</pre>	 	 	 	 	
	 	(Ref. 27-34-00, P. Block 501) (3)For the flaps :	 -	 	 	 	
 	 	(Ref. 27-54-00, P. Block 501) (4)For the slats : (Ref. 27-84-00, P. Block 501)	 	 	 	 	

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•	: :	INSP CODE		1	2	PHASE 3	SIGN	FIG.	-
			Inspection of the Flight Control			 	 - 		
		l i	Surfaces						١
			(5)For the spoilers :						
			(Ref. 27-64-00, P. Block 501)						

E. Close Access

- (1) Make sure that the work area is clean and clear of tools and other items.
- (2)Close the nose gear doors (Ref. 32-22-11, P. Block 301).
- (3)Close the main gear doors (Ref. 32-12-11, P. Block 301).
- (4)Remove the access platform(s).
- (5) Remove the warning notice(s).

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INSPECTION AFTER FLIGHT WITH HIGH LATERAL LOADS

1. Reason for the Job

To do an inspection of the aircraft for structural damage after a flight during which high lateral loads occurred.

<u>NOTE</u>: Typical examples of conditions that can cause high lateral load factors are:

- loss of control involving yaw and/or roll maneuvers
- severe turbulence with A.P. disconnection or in manual mode
- system failures such as rudder trim runaway with crew take over
- etc.

NOTE: If the lateral acceleration occurred when the aircraft was on the ground (landing, taxiing, etc.), it is not necessary to do this procedure.

Refer to the conditions given below to know if it is necessary to do the inspection.

2. Inspection Requirements

If there is a flight crew report of high lateral acceleration, you must get the data from the **DFDR** or any other device available to know the lateral load factor before the aircraft is released for flight.

NOTE: If excessive turbulence caused the high lateral loads, it is possible that there were also high vertical loads. For high vertical loads, do the inspection after Flight in Excessive Turbulence or in Excess of VMO/MMO (Ref. 05-51-17, P. Block 1).

NOTE: If there is a Flight crew report of high lateral acceleration and if the data from the DFDR or any other device available are unusable to know the lateral load factor, contact Airbus before the next flight for further information.

A. If the value of the lateral load factor is less than 0.3 g on the two sides of the aircraft:

- this inspection is not necessary and the aircraft can return to service.
- B. If the value of the lateral load factor is equal to or more than 0.3 g but less than 0.35 g:
 - do the inspection given in Para. 4. of this procedure.
 - send the DFDR recording (or equivalent) for the section of the flight during which the event occurred to AIRBUS for analysis.

<u>NOTE</u>: Until the results of the AIRBUS analysis are available and on the condition that no damage is found during the visual inspection as per Para. 4., the aircraft can return to service for a maximum period of one month. AIRBUS will tell you if other inspections are necessary and will send you the related instructions.

- C. If the value of the lateral load factor is equal to or more than 0.35 g:
 - the aircraft is not permitted to return to flight.
 - do the inspection given in Para. 4. of this procedure.

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- send the **DFDR** recording (or equivalent) for the section of the flight during which the event occurred to **AIRBUS** for analysis.
- get instructions from AIRBUS for preparation of the aircraft for detailed inspection.
- AIRBUS will tell you what action is necessary.

3. Equipment and Materials

ITEM	DESIGNATION
Referenced Procedures	
- 05-51-17, P. Block 1	Inspection after Flight in Excessive
	Turbulence or in Excess of VMO/MMO
- 53-19-11, P. Block 601	Structure Complete - Inspection/Check
- 55-30-00, P. Block 601	Vertical Stabilizer - Inspection/Check
- 55-36-11, P. Block 601	Vertical Stabilizer Attach Fittings -
	Inspection/Check
- 55-46-11, P. Block 601	Rudder Attach Fittings - Inspection/Check

4. Inspection

- A. Do the inspection after Flight in Excessive Turbulence or in Excess of VMO/MMO (Ref. 05-51-17, P. Block 1), with these additional inspections: (1)Extend the wing inspection to RIB29.
 - (2)Do a detailed visual inspection of fuselage (from inside):
 - Inspection of FR84 to FR87 above stringer 23.
 - Inspection of FR91 at all areas.
- B. Do a detailed visual inspection of fuselage external surface under fin-to-fuselage fairing, fin-to-fuselage attach fittings including side load fittings and lower surface of the vertical stabilizer RIB1 (Ref. 53-19-11, P. Block 601), (Ref. 55-30-00, P. Block 601) and (Ref. 55-36-11, P. Block 601).
- C. On the vertical stabilizer, do a detailed visual inspection of rudder hinge arms and support fittings NΔ. 1 to 7 and actuator support fittings (Ref. 53-19-11, P. Block 601), (Ref. 55-30-00, P. Block 601) and (Ref. 55-36-11, P. Block 601).
- D. On the rudder, do a detailed visual inspection of rudder hinge fittings No. 1 to 7 and actuator support fittings (Ref. 55-46-11, P. Block 601).

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INSPECTION AFTER FLIGHT OR LANDING IN EXCESS OF LATERAL IMBALANCE

1. Reason for the Job

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> To do an inspection of the aircraft for structural damage after a flight or a landing in excess of lateral imbalance.

2. Equipment and Materials

ITEM	DESIGNATION
Α.	Access Platforms 1.98 m to 8.03 m
В.	(6 ft. 6 in. to 26 ft. 4 in.) Warning Notices
Referenced Procedures	warming Notices
- 05-56-00, P. Block 1	Leveling and Measurement After A/C Abnormal Operation
- 24-31-00, P. Block 601	Batteries - DC Generation
- 24-41-00, P. Block 301	AC External Power Control
- 25-52-00, P. Block 501	Semi-Automatic Cargo Loading System
- 27-50-00, P. Block 301	Flaps
- 28-25-00, P. Block 301	Refuel/Defuel System
- 29-10-00, P. Block 301	Main Hydraulic Power - Pressurization/
	Depressurization
- 32-10-00, P. Block 601	Main Gear and Doors
- 32-11-13, P. Block 401	Main Gear Shock Absorber
- 32-11-13, P. Block 601	Main Gear Shock Absorber
- 32-12-11, P. Block 301	<pre>Main Gear Main Door - (Ground Door(s) Opening)</pre>
- 32-21-00, P. Block 601	Nose Gear
- 32-21-14, P. Block 401	Nose Gear Shock Absorber
- 32-21-14, P. Block 601	Nose Gear Shock Absorber
- 32-22-11, P. Block 301	Nose Gear Main Door - (Ground Door(s) Opening)

Job Set-up

A. Procedure to confirm a flight in excess of lateral imbalance

NOTE: It is the responsibility of the flight crew to make a report of a flight in excess of fuel wing imbalance.

NOTE: The flight crew must report an excess of lateral imbalance in flight in the logbook only if the aircraft encounters

significant vertical accelerations.

NOTE: The flight crew should also record the fuel quantity in each tank, when the lateral fuel imbalance is at its maximum.

(1)Definition of a flight in excess of lateral imbalance

A flight in excess of lateral imbalance is a flight where:

(a) The lateral fuel imbalance exceeds the in-flight limitation provided in FCOM section 2.01.40 page 4A and the payload imbalance is less than 0.05 m (2 in.), or

(b) The lateral fuel imbalance exceeds the in-flight limitation provided in section 5 of FCOM bulletin ref. 829-2 and the payload imbalance is above 0.05 m (2 in.) and less than

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0.08 m (3.2 in.).

(2)Confirmation of a flight in excess of lateral imbalance
After a reported flight in excess of lateral imbalance with
significant vertical accelerations, wing tank fuel quantities should be
compared to envelope cases shown in table 001, to obtain the Nz max
value.

If the encountered Nz is above the max value, it is necessary to contact Airbus for event assessment before the next flight.

manoeuvre N: max value		el quantities	Wing tank fu	
max value 	Router	Rinner	Linner	Louter
1.8	Empty	Empty	Full	Full
2.0	Full	Empty	Full	Full
1.8	Empty		Full	Full
1.8	 Empty	- Empty		 Empty

Nz Limit Values for Flight in Excess of Lateral Fuel Imbalance
Table 001

B. Procedure to confirm a landing in excess of lateral imbalance (Ref. Fig. 001)

 ${\hbox{{\tt NOTE}}}$: It is the responsibility of the flight crew to make a report of a landing in excess of fuel wing imbalance.

(1)Definition of a landing in excess of lateral imbalance

A landing in excess of lateral imbalance is a landing where:

- (a) The lateral fuel imbalance exceeds the landing limitation provided in FCOM section 2.01.40 page 4A and the payload imbalance is less than 0.05 m (2 in.).
- (2)Confirmation of a landing in excess of lateral imbalance After a reported landing in excess of lateral imbalance, it is necessary to comply with all the instructions contained within this task before the next flight.

NOTE : This task only applies if the criteria for hard landing defined in AMM 05-51-11 are not reached, otherwise complete AMM 05-51-11 inspection tasks must be carried out.

(a) Fuel imbalance landing events are divided into zone 1 and zone 2:

 $\underline{1}$ Zone 1: GW < MLW and Delta YCG < 0.40 m (1.31ft.) or

GW ≥ MLW and Delta YCG < 0.14 m (0.45ft.) In this case, no action is required.

2 Zone 2: GW < MLW and Delta YCG \geq 0.40 m (1.31ft.)

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or

 $GW \ge MLW$ and Delta YCG ≥ 0.14 m (0.45ft.)

In this case, inspections and reporting are required.

Do this procedure:

- Do the inspection in paragraph 4.C.
- On the condition that there are NIL findings during the inspection task, the aircraft can return to service for a maximum period of 30 days and until AIRBUS instructions are available.
- If there are findings related to phase II, report to Airbus and A/C is AOG.
- Airbus will instruct during this period for other inspections if necessary or will confirm that no further actions are required.
- Immediately contact Airbus and send the complete DFDR rough data file if possible (or QAR, if available), the load and trim sheet or the following parameters for analysis:
 - Quantity of fuel per tank at landing
 - Lateral YCG displacement due to cargo loading
 - Landing weight
 - Vz time history (DFDR data or QAR, if available)
 - Vx at impact
 - Beta at impact
 - Nz time history (DFDR data or QAR, if available)
 - Ny (DFDR data or QAR, if available)
 - Roll and roll rate at impact (DFDR data or QAR, if available)
 - Pitch and pitch rate at impact (DFDR data or QAR, if available). NOTE: Send the complete DFDR rough data file if possible.

4. Procedure

- A. Job Set-Up
 - (1) Make certain that nose and main landing gear ground locks are correctly installed.
 - (2)Extend flaps and slats (Ref. 27-50-00, P. Block 301).
 - (3) Open main gear main doors (Ref. 32-12-11, P. Block 301).
 - (4)Open nose gear main doors (Ref. 32-22-11, P. Block 301).
 - (5)Depressurize hydraulic systems (Ref. 29-10-00, P. Block 301).
 - (6)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
 - (7)Place warning notices in flight compartment prohibiting operation of all aircraft systems.
 - (8)Position access platforms.
- B. Leveling and Measurement See text, C. Inspection.
- C. Inspection after Landing with Excessive Fuel Wing Imbalance

 $\underline{\mathtt{NOTE}}$: All inspections called for are visual unless otherwise specified in the text.

Operators may, at their own discretion or at the direction of their airworthiness authority, use non-destructive techniques in compli-

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ance with the Non-Destructive Testing Manual (NTM).

Any work upon a system as a result of the inspection for damage that entails disconnection or removal of components, pipes, ducts, cables, electrical connectors and mechanical linkages must be followed by a functional test of the system affected.

If there is damage to the aircraft structure, refer to the Structural Repair Manual (SRM). The SRM has the approved damage limits and repair procedures.

If it is necessary to open (remove) access panels and doors, examine them. Make sure that:

- They are aligned correctly,
- They have no distortion or cracks,
- The paint is not damaged,
- All fasteners and safety devices are in the correct position.
- (1)Before starting phase 1 checks, carry out a general external inspection of the aircraft for obvious damage and fluid leakage, paying particular attention to landing gears, wheels, tires and brake units.
- (2)Perform the following inspection tasks (starting with phase one) before the next flight, limited to:

(a)Landing gear

(Ref. Fig. 002)

(Ref. Fig. 003)

Item 	Insp Code 	·	Phase 1 	Phase 2 		Sign	Ref. Det. Fig.
1	2	3	4	5	6	7	8
1.	 	 <u>Main Gear</u> 		 	 		
A	 	 Shock Absorbers and Pitch Dampers (1)Inspect shock absorbers and pitch dampers for leakage.	 X 	 	 	 	
 	 	(2)Check shock absorber and pitch damper charging pressure (Ref. 32-11-13, P. Block 601 and Ref. 32-10-00, P. Block 601).	X 	 	 	 	
İ	 	(3)Inspect main gear (Ref. 32-10-00,	x	 	 	 	i i
 	 	NOTE : In the event of crab landing, check verticality of gear leg by checking the brace strut and cross brace (buckling or elongation).	x 	 	 	 	
 	 	 If damage found: Check right and left gear bogie beams as follows.	[X 	 	 	
 B 	 	 Bogie Beam Inspection (Main Landing Gear, Left and Right)	 	 	 	 	

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Item 	Insp Code 		Phase 1 	Phase 2		Insp Sign		
1	 2 	 3 		5	 6 	 7 	 8 	
	 	Check for twist and buckling. Method of inspection: (Ref. 05-56-00) Viewing, with the aid of a theodolite or any other approved method, of the following points: - Forward wheel axis - Bogie beam hinge point - Rear wheel axis. CAUTION : IF THE FIGURES AND DIMENSIONS OBTAINED ARE NOT WITHIN THE LIMITS QUOTED IN THE MANUAL, A DETAILED INSPECTION OF THE MAIN LANDING GEARS AS DESCRI- BED BELOW SHALL BE CARRIED OUT.		X				

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	Insp Code 		Phase 1 	Phase 2 		Sign	
 1	 2	3	 4	 5	 6	 7	 8
 C 	 	Main Landing Gear Leg NOTE : It is assumed that the aircraft has been placed in a maintenance status.	 br> 				
	 	 (1)Remove shock absorber assembly from main gear leg (Ref. 32-11-13, P. Block 401).	 	 	 X 	 	
	 	(2)Inspect main gear leg. (3)Carry out detailed inspection of shock absorber upper clevis/face.	 	 	X X 	 	
	 	If damage found: (4)Inspect lower face of shock strut shock absorber pick-up (gain access through charging valve seat). Use an endoscope (borescope) to check for twist, distortion, cracks, defor- mation and other damage.			 X 	 	
	 	NOTE : If endoscope (borescope) inspection reveals any evidence of damage or distress, the main landing gear assembly must be removed for overhaul.			 	 	
D	 		 		 X X	 	
	 	(a) signs of impact around pick-up fit- tings at rear of Rib5 (b) signs of impact at the bottom of the gear trunnion housing and ball joint at Rib4/rear spar.			X X 	 	
2.	 	 <u>Nose Gear</u>	 br> 				
Α.	•	 Shock absorber (1)Inspect shock absorber for leakage. (2)Check shock absorber charging pres-	 X X	 	 	 	

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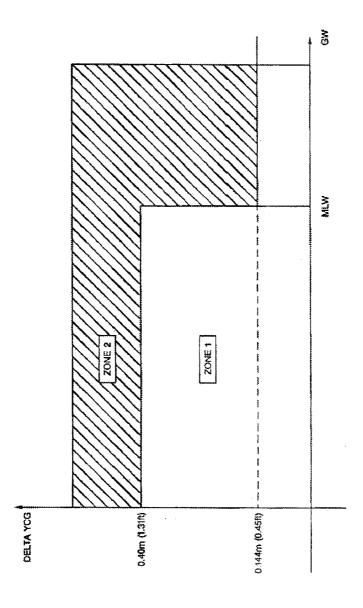
Item Ir Co 	nsp ode 		Phase 1	Phase 2		Insp Sign 	
1	 2	3	4	5	6	 7	 8
 	 	sure (Ref. 32-21-14, P. Block 601). (3)If damage/leakage is found, remove shock absorber for overhaul (Ref. 32-21-14, P. Block 401).		x	 	 	 ·
B. 	- 1	Inspect hydraulic and electric installations on nose gear leg for correct condition.	X			 	
C.		Check nose gear (Ref. 32-20-00, P. Block 601).	X			! 	
	 	(1)Check of tightening torque of shock absorber to shock strut fasteners (Ref. 32-21-00, P. Block 601). CAUTION: THIS INSPECTION CAN BE PLANNED WITHIN A GRACE PERIOD OF 1 MONTH. HOWEVER, IF A FORMER "HARD LANDING EVENT (Ref. AMM 05-51-11)" HAS BEEN EXPERIENCED IN THE LAST 3 MONTHS (WITH INSPECTION NOT YET ACCOMPLISHED), THIS INSPECTION HAS TO BE PERFORMED BEFORE FURTHER FLIGHT.	X				
D.		Inspect wheels and tires for correct condition (Ref. 32-41-00, P. Block 601).	Х			 	
E. 	 	Visually check that the safety pin can be installed easily on the nose gear telescopic strut: - It has completely and easily rotated the fork-type lever of the ground locking system. - Its stop flange abuts against the housing of the telescopic strut locking system (full insertion). If these conditions are not met or if there is some doubt, inspect nose gear (Ref. 32-21-00, P. Block 601).	X	x			

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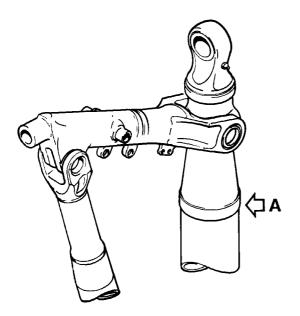
Definition of Landing With Excessive Fuel Wing Imbalance Figure 001

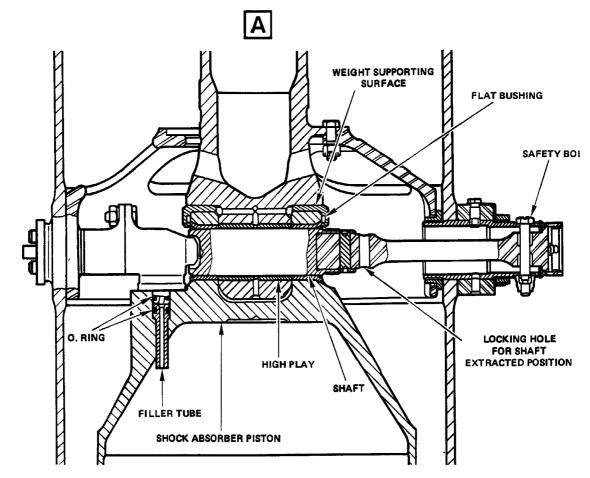
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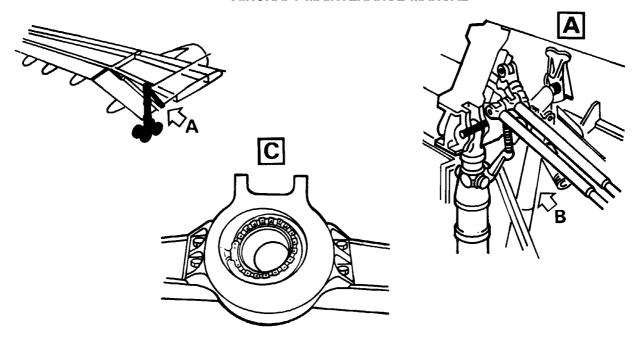
Main Landing Gear Shock Absorber Attachments Figure 002

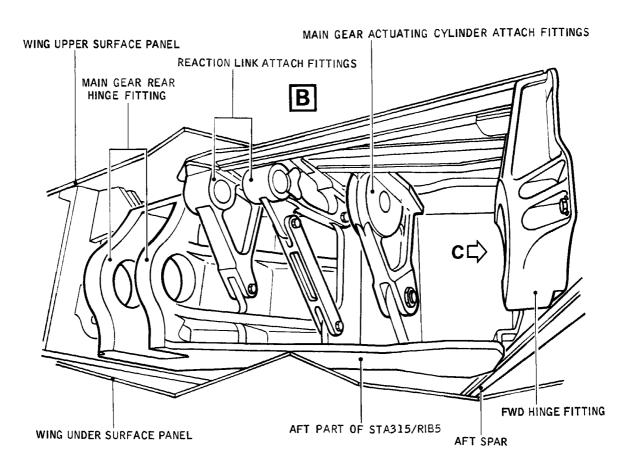
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Main Landing Gear Attachment Fittings Figure 003

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(b)Main gear doors/fairings

1:	Item	Insp Code 	•	Phase 1 	Phase 2 			Ref. Det. Fig.	
	1	2	3	4	5	6	 7	8	ı
	1.	 - 	Main Gear Doors	 			 - 	 	ı
	A	 	 Inspect the doors, the hinges and the adjacent structure.	 X 			 		
	2.	 	Main-Gear Fixed-Fairing] 	l
	A	 	Inspect the fixed fairing and the attachments to the main-gear leg.	 X 			 		
ļ	3.	! 	Main-Gear Hinged Fairing	 			 		1
	A	 	Inspect the hinged fairing and the attachments to the main-gear leg and the wing.	X 			 	 	

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(c)Fuselage Section - Between STA2241/FR39 and STA2931/FR54 - Frames and Stringers (Ref. Fig. 004)

	Insp Code 	· I	1	2	3 	Sign 	
 1		3	4	5		 7	 8
1.	 	Fuselage Section - between STA2241/FR39 and STA2931/FR54			 	 	
A		Check transverse skin splices, external- ly, at FR39 and FR54 between stringers 43LH and 43RH for buckling, loose rivets and cracked or flaking paint.	X			 	
B		Check fuselage skin externally between FR39 and FR47 and stringers 34LH and 34RH for buckling, loose rivets and cracked or flaking paint.	X			 	
C		Check the canted frames at the bounda- ries of the wheel wells, their junc- tions, the fittings at FR50A and the adjacent areas.	X			 	
D		Check the main gear brace strut attach- ment bearing housings at FR50A.	X			 	
E		Check the longitudinal edging spars of the central beam section, STA2453/FR44 to STA2878/FR53.	х		 	 	
		If damage is found: (1) Check the floor of the central beam and the support rod.		x	 	 	
		(2) Check the passenger cabin floor structure and support rods in main gear well.		X		 	
		If damage is found: (a) From FR40 to FR54, inspect upper fuselage splices of stringers 13LH and 13RH.				 	
		Internal check			X	 	
2.	 	 <u>Fuselage_upper_panels</u> - between STA2241/FR39_and	X		 	 	1

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-									-
	Item	Insp	•	Phase		Phase			
		Code 	Accomplished	1	2	3		Det. Fig.	
	1	2	3	4	5	6	7	8	1
									l
ĺ	A	İ	Inspect the fuselage upper panels below	X	İ	ĺ	į	į i	İ
			stringer 22.						
			<pre>If damage is found:</pre>			1			
	В		Inspect the window frames and the rivets		X	1			
			around the windows between FR40 and			1			
			FR48.			ĺ	ĺ	į į	
			If damage is found:			1		[
			- Contact AIRBUS for further			1	[[
			instructions.			1	1	1	1

(d)Wings (Ref. Fig. 005, 006)

Item	Insp Code 	•	Phase 1 	Phase 2 		Insp Sign 	
1	2	3	4	5	6	 -	 8
1.	 	Wing-rib 1 to rib 10 Leading & Trailing Edge Structure	 	 	 	 	
	 	Front, Rear and False rear spars and trailing edge, the Krueger flap, Box section and Slats	 	 	 	 	
A	 	Inspect the front, rear and false rear spars, shroud box, fitted shroud, riblets, stringers and brackets.	x 	 	 	 	
	 	- there are no cracks, - there is no damage, - there are no fluid leaks, - the fasteners and safety devices are in the correct condition.	 	 	 	 	
В	 	 If there are signs of damage: 	 	 	 	 	
	 	 (1)Defuel the wing (Ref. 28-25-00, P. Block 301).	! 	 X 	 	 	
	 	(2)Gain access to the wing adjacent to the damage. Do a full internal inspection of all the rib 1-10 riblets, stringers, brackets and plates, paying particular attention to areas adjacent to MLG, pylon,	 	x 	 	 	

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Item	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	 Ref.
İ	Code	Accomplished	1	2	3	Sign	
	 		 	 	 	 	Fig.
1	2	3	4	5	6	7	8
	! <u> </u>		·-				ļ ļ
!	!!!	flap beam attachments and RIB 9	ļ.		<u> </u>	ļ	!!
		splice.					
		Make sure that:					
		- there are no cracks,					
		- there is no damage,					
		- the paint and the sealant					
		are not damaged,					
		- the fasteners are in the					
		correct condition.					
	1 1					l	

(e)Cargo compartments

	Item	Insp Code 		Phase 1 	Phase 2 			Ref. Det. Fig.		
	1	2	3	4	5	6	7	8		
	1.	 	Cargo Compartments (Zones 130/150)	 	Check compartments as visible, for gene- ral condition and damage. If damage is found: (1) Check loading and unloading of containers/pallets and inspect cargo restraint system. In forward and aft cargo compartments, visually check side guides, pallet locks and rollers (ball units, roller assemblies, drive units, guide latches and tracks) for freedom of movement (Ref. 25-52-00).	X 	 X 			
		 	(2) Check cargo compartment oxygen, fire extinguisher mounting brackets and containers for damage, condition and security of attachment (Ref. 25-52-00).		X 					

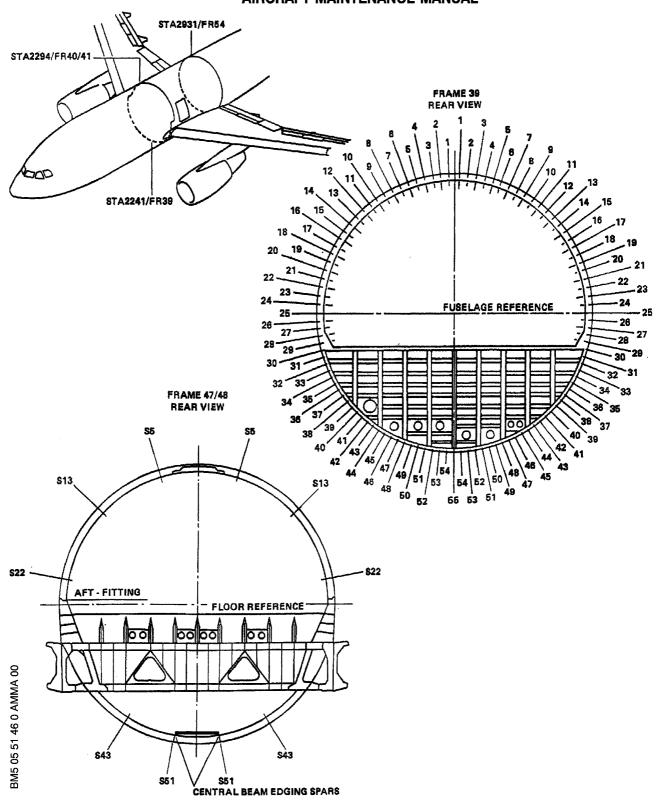
D. Test Set-Up

(1) Make certain that all working areas are clean and clear of tools and miscellaneous items of equipment.

(2) Remove access platforms.

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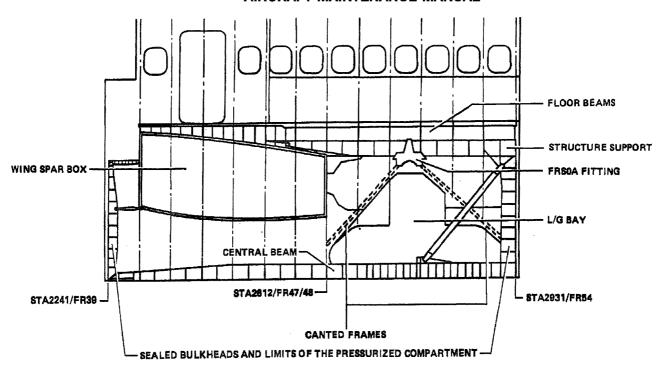


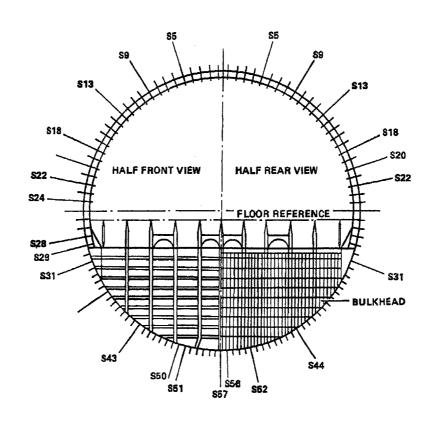
Fuselage Section - Between STA2241/FR39 and STA2931/FR54
Frames and Stringers sheet 1/2
Figure 004

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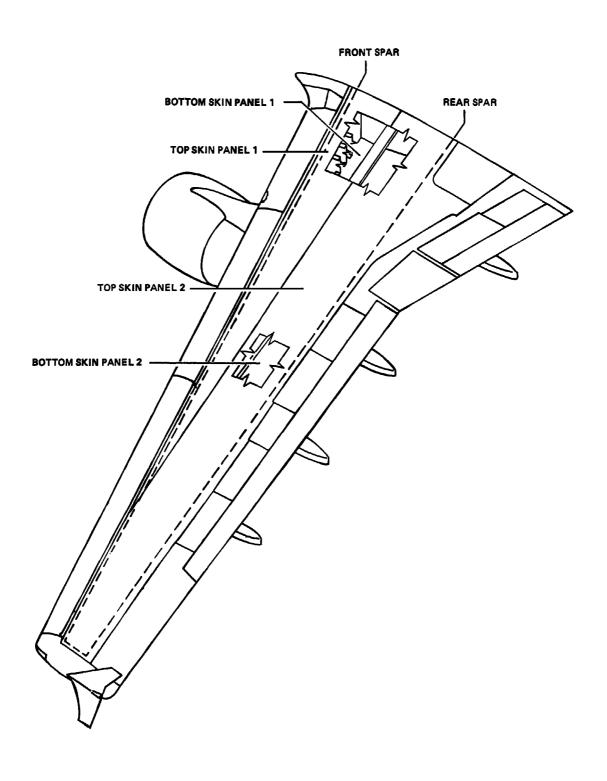
Fuselage Section - Between STA2241/FR39 and STA2931/FR54
Frames and Stringers sheet 2/2
Figure 004

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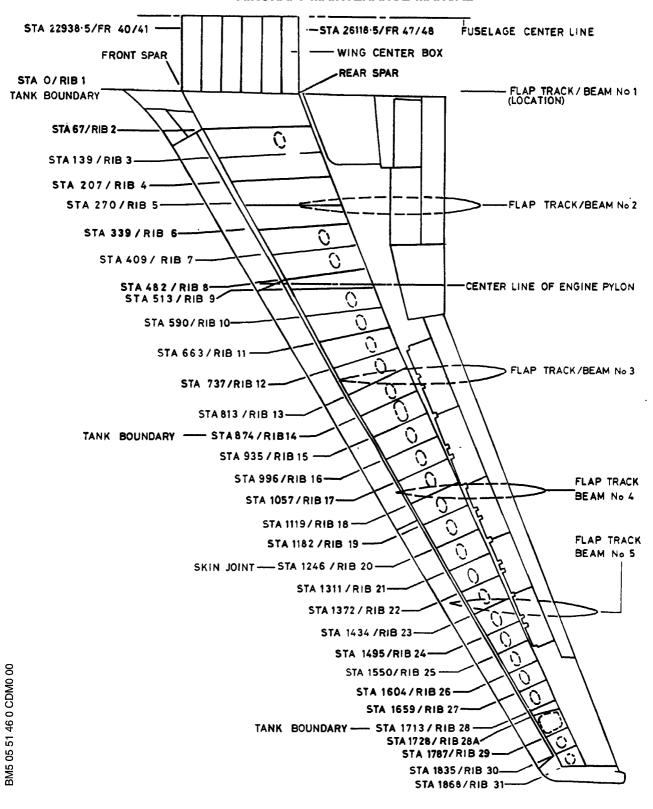
Wing Skin - Identification Figure 005

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Wing - Rib Stations Figure 006

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- (3)Remove warning notices from flight compartment.
- (4)Close main gear main doors (Ref. 32-12-11, P. Block 301).
- (5)Close nose gear main doors (Ref. 32-22-11, P. Block 301).
- (6) Retract flaps and slats (Ref. 27-50-00, P. Block 301).

E. Test

- (1)Carry out an operational test of all systems disturbed during or as a result of the inspection.
- (2) If damage has been found and structural repairs have been made on structure adjacent to flight control surfaces, landing gear and doors, carry out functional tests of the moving parts to ensure that no fouling occurs and that door locking systems engage fully and correctly.

F. Close-Up

(1)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment and miscellaneous items.

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HEAT DAMAGE EVALUATION FOR PYLON STRUCTURE

1. Reason for the Job

This inspection is necessary after a crew report for ENG FIRE warning in flight compartment, or nacelle temperature exceeded.

Overheating can be due to:

- excessive hot air leaks on pneumatic system due to an incorrect duct condition and clamp installation,
- flammable fluid leaks (hydraulic, oil, fuel),
- cracks in the combustor casing, HP compressor casing and turbine,
- blockage in cooling holes in the inner wall of the reverser cowls.

2. Equipment and Materials

ITEM	DESIGNATION
Α.	Access Platform 2 m to 6 m (6 ft. 6 in. to 19 ft. 7 in.)
В.	Brush
C.	Lint-Free Cloth
D. Material No. 11-001C	Cleaning Agents (Ref. 20-31-00)
Referenced Procedures	
- 24-41-00, P. Block 301	AC External Power Control
- 29-10-00, P. Block 301	Main Hydraulic Power
- 51-10-03, P. Block 501	Nondestructive Testing Manual (NTM)
- 51-10-12, P. Block 101	Nondestructive Testing Manual (NTM)
- 51-21-00, P. Block 1	Structural Repair Manual (SRM)
- 51-28-10, P. Block 1	Structural Repair Manual (SRM)
- 51-31-00, P. Block 1	Structural Repair Manual (SRM)
- 51-33-00, P. Block 1	Structural Repair Manual (SRM)
- 54-51-75, P. Block 401	Aft Attach Fitting (RIB18)
- 54-55-00, P. Block 401	Lower Fairing
- 71-13-03, P. Block 401	Fan Thrust Reverser Cowl

3. General

A. Contents

This procedure contains information for examination and checking of the pylon structure after exposure to excessive heat and for evaluation of any damage found, to determine whether or not the structure has been adversely affected.

When the pylon structure has been heat-damaged, e.g. by fire, hot air, or other sources it is necessary to determine the context, to evaluate the extent of the damage and to foresee the consequences.

- Context

Fire detection data, hot air leaks on pneumatic system, engine fire, external visual reports are characteristic data to be reported, in order to determine the location, the extent and the duration of the damage.

- Initial examination

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This shall be visual, after fan thrust reverser cowl removal and lower fairing removal to report the damage location, the environment of the affected area, and the affected elements.

- Accurate evaluation
 - Only destructive testing can carry out an accurate evaluation of the degree of heat damage.
 - However, for the purposes of evaluating heat-damaged parts in situ, nondestructive testing and evaluation methods as detailed hereafter are proposed in the flow chart.
- Consequences

Report any abnormal findings to AIRBUS, in order to determine the consequence on repair, material mechanical properties, fatigue aspect and maintenance tasks.

- B. Inspection Requirements
 - (1)Visual examination of heat damage
 - (a)Determine extent of damage by performing an internal and external visual inspection of the damaged element.

Follow the method given in the flow chart (Ref. Fig. 001) for damage assessment.

- NOTE: Do not assume damage is confined to local area.

 Do not limit the inspection area to the overheat point, secondary heating may arise due to thermal conductivity. The temperature rise of the skin itself is affected by the heat capacity of the stringers and other formers.
- (b) Check for change of coloration of paint, paint flaking, overheat of paint and aluminum spray surface condition.
 - NOTE: The brown colour gives the limit of the affected area.
- (c)Observe any signs of buckling, distortion, cracks, traces of burn, and change of coloration on metallic parts.
- (d)Check all structural junction points and attachment areas for permanent buckling, cracks, traces of burn, change of coloration (titanium).
- (e)Check for cracks in stress concentration areas (hole, fitting, fillet radius, etc.).
 - NOTE : Any evidence of loose or sheared fasteners requires a close inspection of all structures near the damaged area.
 - NOTE : Overheated cadmium plating on steel and titanium can cause embrittlement.
- (f)Check all moving parts for signs of clearance, free rotation of bearing, ball joint.
- (g)Inspect panels and spars junction for burnt sealant and check for bubbling of sealant, change of coloration, change of condition.
- (h)Inspect for traces of burn, overheat, leaks of system installations (seals, clamping plates, wiring harness, etc.) after removal of access panels.
- (j)On composite panels and honeycomb structures, check for traces of burn on paint and resin, check for delamination, etc.
- (2)Detailed evaluation of heat damage

After initial visual examination and consideration of possible forms of damage, more specific methods of inspection may be required.

NOTE: Results obtained with the inspection procedures described below

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must be compared with measurements on similar non-affected parts. (a)Flatness check

- Do a flatness check on the external surface of the affected element for buckling.
- Compare with the same measurements on the non-affected part.
- (b) Hardness test (Ref. SRM 51-28-10, P. Block 1)
 - Hardness tests are used to evaluate the extent of the deterioration. CAUTION: HARDNESS TESTS REQUIRE A VERY FLAT SURFACE.
 - Draw a grid where the test is to be performed and add some points for measurement in a non-affected area.
- (c)Electrical conductivity test (Ref. NTM 51-10-12, P. Block 101)
 - Perform an electrical conductivity test of the same points.

 The results analysed are used to evaluate the status of the heat treatment and modification of the material characteristics.
 - The results analysed are used to evaluate the status of the heat treatment and the change in mechanical specifications.

<u>NOTE</u>: Only applicable on aluminum alloy components.

NOTE: For steel or titanium components it is not possible to evaluate strength loss due to heat damage by using conductivity test.

(d)Tap test (Ref. NTM 51-10-03, P. Block 501)

(e)Pictures

- Take some pictures before cleaning to determine differences in colour or traces of leakage from the damaged areas.

<u>CAUTION</u>: AVOID TAKING PICTURES WITH A FLASH WHICH COULD GIVE METALLIC PARTS WITHOUT PROTECTION A YELLOW COLOUR, THIS COULD GENERATE MISTAKES IN THE INTERPRETATION OF THE PICTURE.

(3)Test according to specific material

NOTE: For identification of the material, refer to the appropriate identification block of the relevant chapter in the SRM (Ref. SRM 51-31-00, P. Block 1) or (Ref. SRM 51-33-00, P. Block 1).

(a)Aluminum alloys

- Identify the alloy: heat treatment, shade, plating, etc.
- Hardness and electrical conductivity tests should be performed at the same points.

<u>CAUTION</u>: HARDNESS TESTS ARE POSSIBLE ON ALUMINUM CLAD SHEET AFTER ELIMINATING CLADDING LOCALLY.

- The electrical conductivity test cannot be used to detect overheating on 2618A T6.

(b)Steel alloys

- Visual inspection: check for change of coloration and brightness, to determine the temperature and the duration of the exposure to overheat.
- Hardness test: strip the paint or remove the aluminum spray locally where the hardness test must be performed. Draw a grid where the test will be performed and add some points for measurement in a non-affected area (on the same part if possible or on an element not affected).
- Restore the protection (Ref. SRM 51-21-00, P. Block 1). (c)Titanium

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 Visual inspection is only appropriate for overheat detection on machined and stripped surfaces. Change of colour is more signifiant; it results from an increase in oxidation thickness (presence of a resistant dull grey layer of scale).

<u>CAUTION</u>: FOR TITANIUM, HARDNESS TESTING IS NOT A SIGNIFICANT TEST.

(d)Cadmium plating

- Heat damage can cause cadmium embrittlement of the steel substrate and is not always found by nondestructive inspection procedures. Look for white oxide material and blistered or melted plating. Remove the components if the plating shows signs of heat damage.

(e)Composite parts

 Do a tap test on the external face of the affected element to make sure that there is no delamination.

(f)Polymer parts

For silicone, elastomer, PTFE, check for condition, change of colour, hardness of the elements.

4. Procedure

- A. Job Set-up
 - (1)Remove fan thrust reverser cowl (Ref. 71-13-03, P. Block 401).
 - (2) Remove lower fairing (Ref. 54-55-00, P. Block 401).
 - (3)Install warning notices in flight compartment prohibiting operation of all aircraft systems.
 - (4)Depressurize hydraulic systems (Ref. 29-10-00, P. Block 301).
 - (5)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
 - (6)Position access platform.
 - (7)Clean suspected area as follows:

WARNING: NON WATERPROOF ELECTRICAL ELEMENTS MUST BE MASKED.

<u>NOTE</u>: Before cleaning, perform a detailed visual inspection of the suspected area.

<u>NOTE</u>: Take care when cleaning to preserve the oxide coating and the burned paint.

- Apply Cleaning Agents (Material No. 11-001C) with the adapted spraying equipment or with a lint-free cloth.
- Let the material work for 5 to 10 minutes according to the quantity of dirt.
- Clean with a soaked wipe or a brush.
- Rinse with water.
- Let it dry.

B. Inspection

(Ref. Fig. 002)

(Ref. Fig. 003)

(Ref. Fig. 004)

(Ref. Fig. 005)

(Ref. Fig. 006)

(Ref. Fig. 007)

(Ref. Fig. 008)

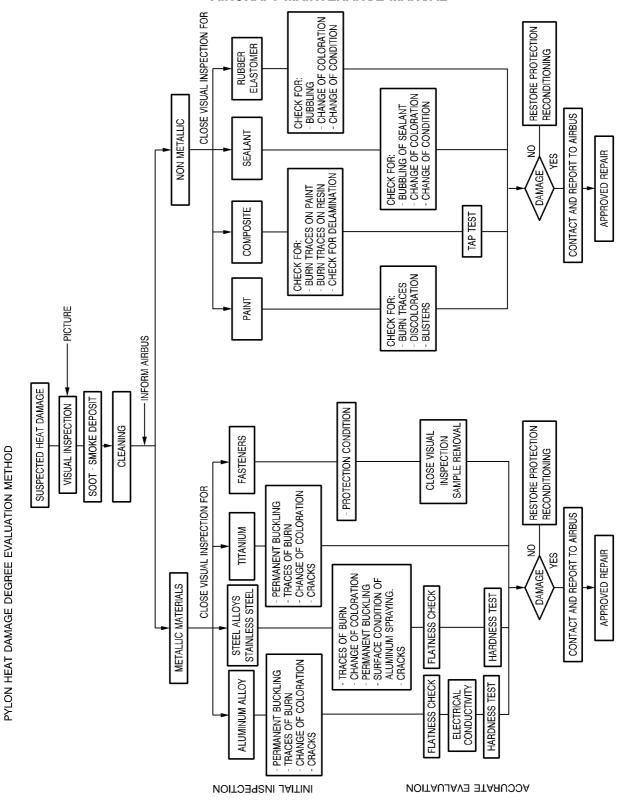
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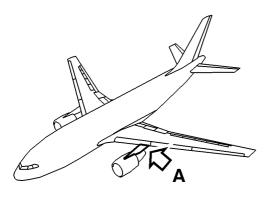


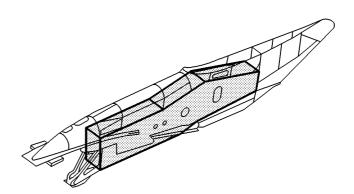
Flow Chart Figure 001

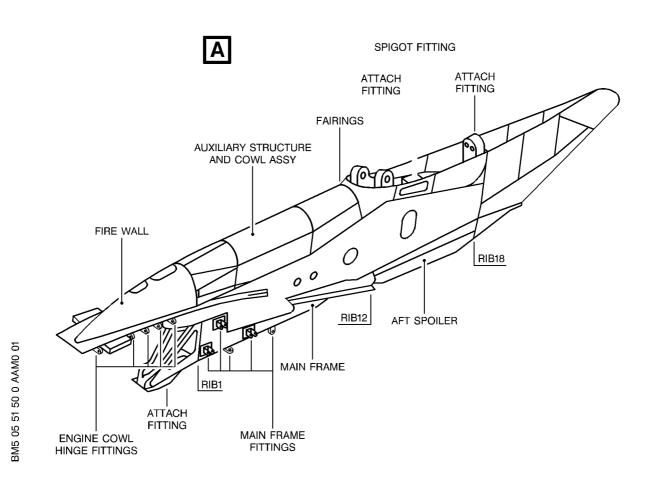
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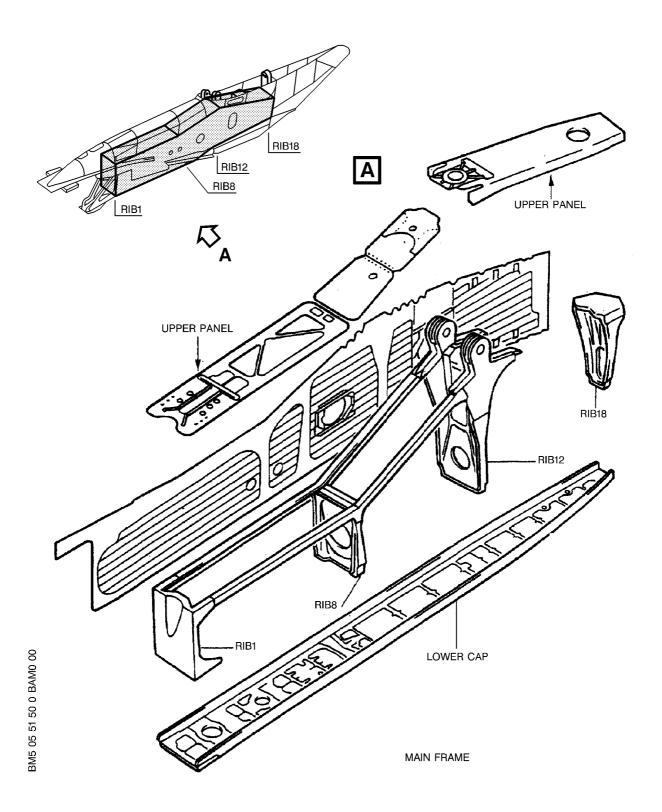
Pylon and Main Frame Figure 002

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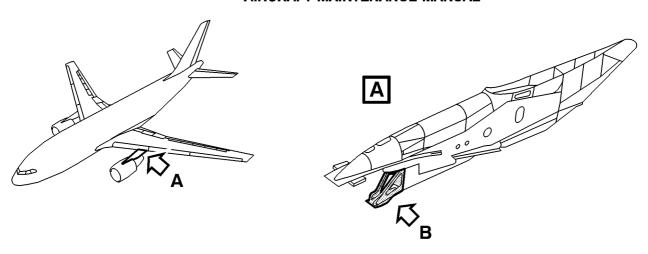
Pylon and Main Frame Figure 003

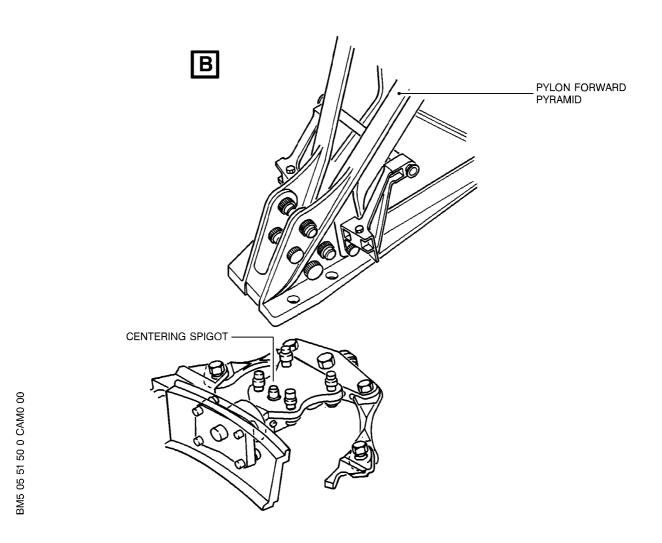
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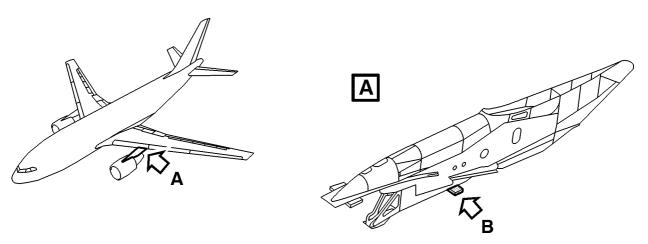
Engine Forward Attach Fitting Figure 004

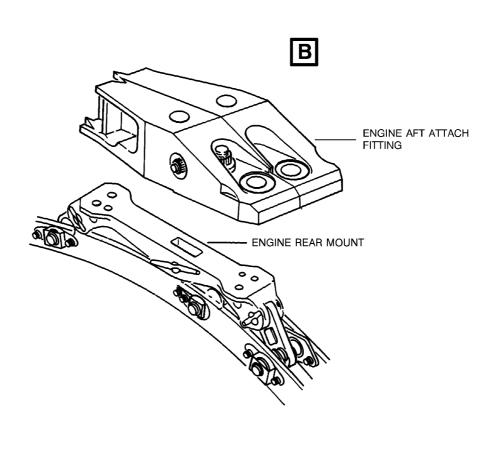
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Engine Aft Attach Fitting Figure 005

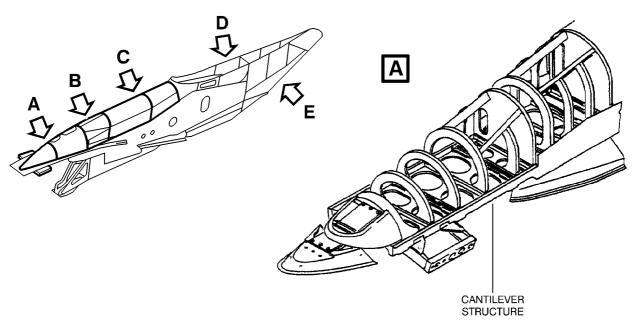
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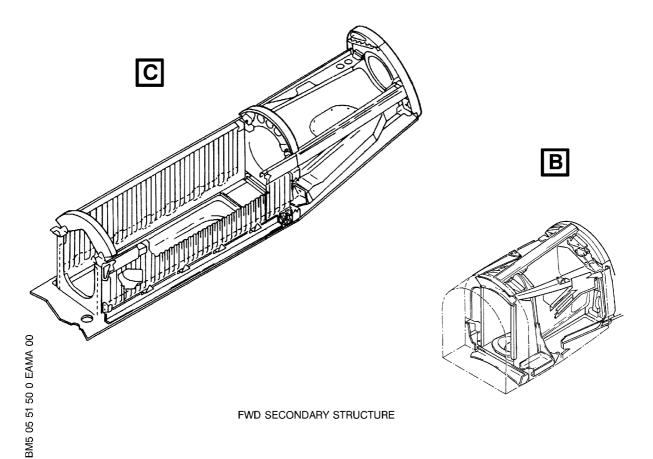
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Auxiliary Structure (Sheet 1/2) Figure 006

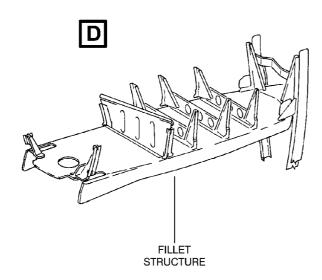
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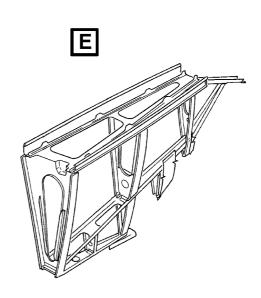
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AFT SECONDARY STRUCTURE

R

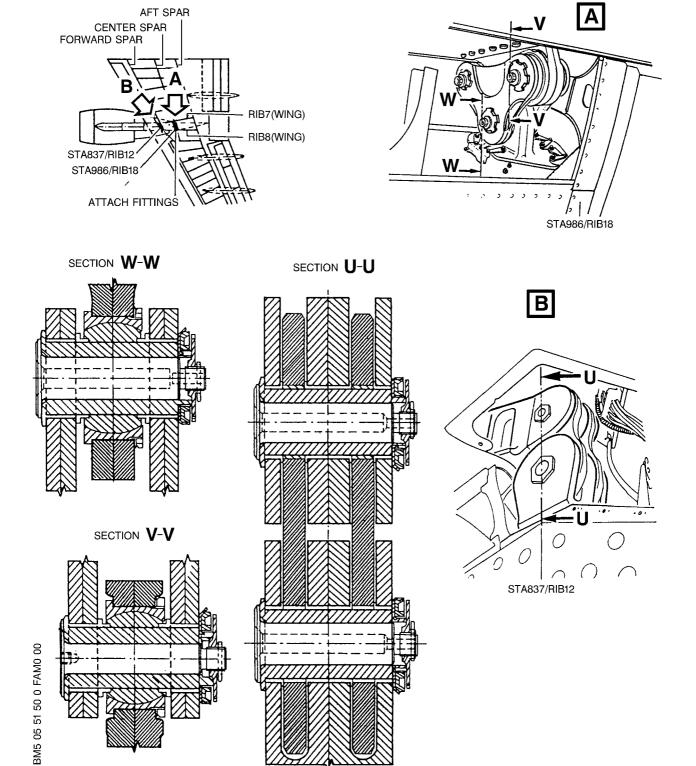
Auxiliary Structure (Sheet 2/2) Figure 006

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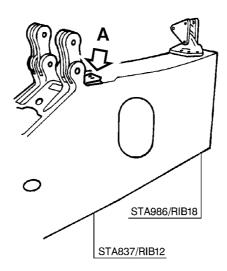
Pylon-to-Wing Attachment Figure 007

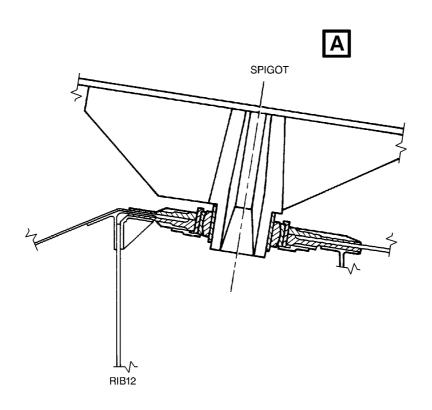
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Wing-to-Pylon Attach Fitting Figure 008

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Item	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp. Sign	
 1 	2	3	 4 	5	 6 	 7 	8
1.		Engine Pylon	 			 	
A -		General Overview Examine the pylon main frame, the doors and the forward and aft auxiliary structure and the pylonto-wing fairings. - Check for change of coloration of paint, paint flaking, overheat of paint and aluminum spray surface condition. - Observe any signs of buckling, distortion, cracks, traces of burn, and change of coloration on metallic parts. - On composite panels and honeycomb structures, check for traces of burn on paint and resin, check for delamination, etc.	X 				
B.		Pylon Primary Structure (1) Examine the pylon primary structure. Make sure that the following parts have no signs of buckling, distortion, cracks, traces of burn and change of coloration on metallic parts: - the lower spar connected to the lateral panels, - the attachments between the ribs, the side panels and lower spar, - the nacelle-to-pylon junction fairing. Check for: paint flaking, change of coloration of paint, and aluminum spray surface condition. Check all structural joining points and attachment areas for permanent buckling, cracks, traces of burn, change of coloration. (2) If you find damage during	 			 	

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	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp. Sign	
1	 2 	3		 5 	 6	 7 	 8
		Remove the access doors and examine the internal side of the panels and the adjacent structure. Make sure that there is no distorsion, wrinkles, buckles, or tearing of plates at the rivets. Check for cracks in stress concentration areas (hole, fitting, fillet radius, etc.). (3) Examine the internal pylon main frame. Make sure that the following parts are in the correct condition: - the fuel and hydraulic pipes and the components of the engine air bleed system, - the fire protection systems and especially the condition of the fire extinguisher bottles, - the drain, and cooling plumbing installation, - the different components mounted on the main frame. Inspect for traces of burn, overheat, leaks of system		 X 	 		
		installations, condition of sealant, seals, clamp, packing, etc. (4) If you find damage during phase 2: On primary structure elements, according to specific material: - do a flatness check on the external surface of the affected element for buckling, - perform a hardness test to locate and confirm the overheated area (Ref. SRM 51-28-10, P. Block 1). On system installations: - for silicone, elastomer, PTFE, check for condition, change of colour, hardness, of the			 x 		

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Item	Insp. Code	Inspection Tasks to be Accomplished 	Phase 1	Phase 2		Insp. Sign	
1	 2 	 3 	 4 	 5 	 6 	 7 	 8
	! 	elements.	 	 	! 	! 	
C.	 	Engine-to-Pylon Attach Fittings (1)Do a detailed inspection of: - the FWD and aft attach fittings below the main ribs, - the fire shield.	 x 		 	 	
	 	Make sure that there is no distorsion, wrinkles, buckles traces of burn, overheat of paint, aluminum spray surface condition, and change of coloration on metallic parts. Check for cracks in stress	 		 	 	 004 005
	 	concentration areas (hole, fitting, fillet radius, etc.). (2)On Engine-to-Pylon attach fitting at RIB1 Make sure that the following	 x 	 	 	 	
	 	parts are in the correct condition: the fuel and hydraulic pipes	 	 	 	 	
	 	<pre>and the components of the engine air bleed system, the fire protection systems, the different components</pre>	 	 	 	 	 004
	 	mounted on the main frame. Inspect for traces of burn, overheat, leaks of system installations, condition of	 	 	 	 	
	 	sealant, seals, clamp, packing, etc.	 	 	 	 	
	: 	(3)If you find damage during phase 1:	 		x	: 	
	 	<pre>On primary structure elements, according to specific material: - do a flatness check on the external surface of the</pre>	 	 	 	 	
	 	affected element for buckling, - perform a hardness test to locate and confirm the	 	 	 	 	
	 	overheated area (Ref. SRM) 51-28-10, P. Block 1). On system installations:	 	 	 	 	
	 	for silicone, elastomer, PTFE,check for condition, change of		 	 	 	

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	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase		Insp. Sign	
1		3	4	5 5	6 6		8 8
	 	colour, hardness, of the elements.	 	 		 	
D.		Examine the Cowl Attach Fittings (1) Examine the fan thrust reverser attach fitting. - Check all moving parts for signs of clearance, free rotation of bearing, ball joint. - Check for cracks in stress concentration areas (hole, fitting, fillet radius, etc.). (2) If you find damage during phase 1: On primary structure elements, according to specific material: - perform a hardness test to locate and confirm the	X 		 		 002
Ε.	 	overheated area (Ref. SRM) 51-28-10, P. Block 1). Pylon Forward Secondary Structure (1)Examine the pylon secondary	 X	 	 	 	
		structure. Make sure that there are no signs of buckling, distortion, cracks, traces of burn, and change of coloration on metallic parts. Make sure that the following parts are in the correct condition: - LH and RH access panels, - upper fixed cowl from leading edge to RIB10A, - pressure relief door, - and pre-cooler door. (2) If you find damage during phase 1: Remove the access doors and examine the internal side of FWD secondary structure, examine: - the cantilever beam,		 			

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Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp. Sign	
1 2	3	 4	 5	 6	 7 	 8
1 2	firewall and RIB10A, panels and ribs including pre-cooler box, Hydraulic/Fuel, and Electrical Junction Boxes Make sure that there is no distortion, wrinkles, buckles, or tearing of plates at the rivets. Check for cracks in stress concentration areas (hole, fitting, fillet radius, etc.). (3)System inspection on the FWD secondary structure after access panel and door removal. Make sure that the following parts are in the correct condition: the fuel and hydraulic pipes, the fire protection systems, the electrical wiring and control throttle flexible cable, the drain, and cooling plumbing installation, the different components mounted on the main frame. Inspect for traces of burn, overheat, leaks of system installations, condition of sealant, seals, clamp, packing, etc. (4)If you find damage during phase 2: On FWD secondary structure elements, according to specific material: do a flatness check on the external surface of the affected element for buckling, perform a hardness test to		5 	6 	7 	8 un 01/02

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Item	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase 2		Insp. Sign	
1	 2 	 3 	 4 	 5 	 6 	 7 	 8
	 	the status of the heat treatment and the change in mechanical specifications (Ref. NTM 51-10-12, P. Block 101). On systems installations: for silicone, elastomer, PTFE, check for condition, change of colour, hardness, of the elements.			 		
F.	 	Pylon Aft Secondary and Lower Fairing Structure (1)Examine the aft pylon secondary structure. Make sure that there are no	 		 	 	
	 	change of coloration of paint, paint flaking, overheat of paint. On composite panels and honeycomb structures, check for traces of burn on paint and resin, check for delamination, etc.			 	 	 006
	 	(2)If you find damage during phase 1: Remove the aft secondary structure and examine: - the internal structure, - the ribs and spar, - the composite or metallic		 X 	 	 	
	 	panels. Make sure that there is no distortion, wrinkles, buckles, or tearing of plates at the rivets, change of coloration on metallic parts. Check for cracks in stress	 		 	 	
	 	concentration areas (hole, fitting, fillet radius, etc.). Check for delamination or traces of burn on resin. (3)System inspection on the aft	 		 	 	
	 	secondary structure after removal. Make sure that the following parts are in the correct condition:	 	 	 	 	

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	Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase		Insp. Sign	
1	 2 	3	 4 	 5 	 6 	 7 	 8
		 the drain installation, the fuel and hydraulic pipes, the different components mounted on the main frame. Inspect for traces of burn, overheat, condition of sealant, seals, clamp, packing, etc. (4) If you find damage during phase 2: On aft secondary structure and lower fairing elements, according to specific material: do a flatness check on the external surface of the affected element for buckling, perform a hardness test to locate and confirm the overheated area (Ref. SRM 51-28-10, P. Block 1). perform an electrical conductivity test to evaluate the status of the heat treatment and the change in mechanical specifications (Ref. NTM 51-10-12, P. Block 101). On system installations: for silicone, elastomer, PTFE, check for condition, change of colour, hardness, of the elements. 			 		
G.		Pylon-to-Wing Attach Fittings If you find damage during Phase 1 on fillet fairing: Remove the fillets (Ref. 54-51-75, P. Block 401). (1) Detailed inspection of the front and rear pylon-to-wing attach fittings of the adjacent structure. - make sure that there is no distortion, wrinkles, buckles, or tearing of plates at the rivets, change of coloration	 	X	 	 	

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[tem Insp. Code	Inspection Tasks to be Accomplished	Phase 1	Phase		Insp. Sign	
1 2 		 4	 5 	 6 	 7 	 8
	- check for cracks in stress concentration areas (hole, fitting, fillet radius, etc.). - check the correct condition of all fasteners and safety devices. (2) Examine the area adjacent to the thrust-spigot attach fitting: - make sure that there is no distortion, wrinkles, buckles, or tearing of plates at the rivets, change of coloration on metallic parts, - check for cracks in stress concentration areas (hole, fitting, fillet radius, etc.). - check the correct condition of all fasteners and safety devices, - the correct condition of sealant, and all fasteners and safety devices. (3) If you find damage during phase 2: On primary and secondary structure elements, according to specific material: - do a flatness check on the external surface of the affected element for buckling, - perform a hardness test to locate and confirm the overheated area (Ref. SRM) 51-28-10, P. Block 1). - perform an electrical conductivity test to evaluate the status of the heat treatment and the change in mechanical specifications (Ref. NTM 51-10-12, P. Block 101). On system installations:			 		

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	Insp. Code		Phase 1 	2	3	Sign	Fig.	
1 1	2		4			<u>'</u>		•
	 	of colour, hardness, of the elements.	 			 		

C. Close-Up

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- (1)Install lower fairing (Ref. 54-55-00, P. Block 401).
- (2)Install fan thrust reverser cowl (Ref. 71-13-03, P. Block 401).
- (3)Remove access platform.
- (4)Remove warning notices.
- (5) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

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INSPECTION AFTER LANDING WITH FUEL IN TRIM TANK

1. General

This inspection is performed after landing with more than 2000 Kgs (4409.24 lbs) in the trim tank.

2. Equipment and Materials

ITEM	DESIGNATION
Α.	Access Platforms 1.98 m to 8.03 m
	(6 ft. 6 in. to 26 ft. 4 in.)
Referenced Procedures	
- 24-41-00, P. Block 301	AC External Power Control
- 27-35-00, P. Block 501	Control Surface Position Indicating (Elevator)
- 28-10-00, P. Block 301	S torage
- 28-11-00, P. Block 601	Tanks
- 28-25-00, P. Block 301	Refuel/Defuel System
- 29-10-00, P. Block 301	Main Hydraulic Power - Pressurization/
	Depressurization
- 49-16-00, P. Block 601	Air Intake System
- 55-10-11, P. Block 501	Trimmable Horizontal Stabilizer
- 55-15-13, P. Block 601	Horizontal Stabilizer Apron
•	Support Fittings
- 55-16-11, P. Block 601	Horizontal Stabilizer Attach Fittings
- 55-16-36, P. Block 601	THS Actuator Arm
- 55-20-00, P. Block 601	Elevators
- 55-26-11, P. Block 601	Elevator Attach Fittings

3. Procedure

- A. Job Set-Up
 - (1)Depressurize hydraulic System (Ref. 29-10-00, P. Block 301).
 - (2)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
 - (3)Place warning notices in flight compartment prohibiting operation of all aircraft systems.
 - (4)Position access platform.
- B. Inspection
 - NOTE : All inspections called for are visual unless otherwise specified in text.

Operators may, at their own discretion or at the direction of their airworthiness authority, use non-destructive techniques in compliance with the Non-Destructive Testing Manual (NTM).

(1)Tail unit

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 ITEM	Insp 	Inspection Tasks to be Accomplished	Phase 	Phase 	Phase 		Ref. Det.
	Code		1	2	3	Sign	Fig.
1	 2 	3	4 	5 5	6 6		
1.		Trimmable Horizontal Stabilizer	! 	 	 	! 	
A- 		Check skin, buckles, cracked or flaking paint, loose rivets and evidence of shearing: - external. If damage found: (1) Defuel Trim tank (Ref.28-25-00, P. Block 301) and ventilate (Ref. 28-10-00, P. Block 301). (2) Inspect internally stringers for evidence of wrinkles, distorted and twisted stringers. (3) Check for possible fuel leakage in trim tank. If a fuel leak is detected:	 	 	 		
 	 	Inspect trim tank(Ref. 28-11-00, P. Block 601).	 	 	X 	 	
 B. 		<pre>Inspect horizontal stabilizer apron support fittings (Ref. 55-15-13, P. Block 601).</pre>	 	 X 	 	 	
C.		Inspect THS actuator arms (Ref. 55-16-36, P. Block 601).	 	X 	 	 	
D.	 	Adjust trimmable horizontal stabilizer (Ref. 55-10-11, P. Block 501).	 	 	 x 	 	
E. 		<pre>Inspect horizontal stabilizer attach fittings (Ref. 55-16-11, P. Block 601).</pre>	 	 	x 	 	
2.	 	Elevator and APU	 	 	 	 	
A. 		Carry out a visual inspection for general condition of the horizontal stabilizer attachment areas and tail cone APU air intake areas. If damage found: (1) Examine for damage and evidence of movement on elevator attach fittings (Ref. 55-26-11, P. Block 601). If damage found:	x 	 x 	 		

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								-
	Insp	Inspection Tasks to be	Phase	Phase	Phase	Insp	Ref.	
ITEN	1	Accomplished					Det.	
	Code		1	2	3	Sign	Fig.	
	-							
1	2	3	4	5	6	7	8	
	-							
		(a)Inspect elevators (Ref.			X			
		55-20-00, P. Block 601).						
		(2)Examine APU air intake system for		X				
		correct condition (Ref. 49-16-00,						1
		P. Block 601).						

(2) Fuselage - Sections 16 to 19

 ITEM 	Insp	Inspection Tasks to be Accomplished	Phase	Phase 2			Ref. Det. Fig.
1	 2	3	4			 7	
1.	 	Fuselage - Sections 18 and 19					
A. 		Check externally skin, buckles, cracked or flaking paint, loose rivets and evidence of shearing. If damage found: (1)Inspect internally stringers for evidence of wrinkles, distorted and twisted stringers. If damage found: (a)Inspect fuselage - sections 16 and 17.	X	 X X			
	 	Fuselage - Sections 16 and 17				 	
A. 		Check externally skin, buckles, cracked or flacking paint, loose rivets and evidence of shearing. If damage found: (1) Inspect internally stringers for evidence of wrinkles, distorted and twisted stringers.		X 	 X	 	

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(1)Carry out operational test of control surface position indicating (elevator) (Ref. 27-35-00, P. Block 501).

D. Close-Up

EFFECTIVITY: ALL	U5·51·55
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(1)Remove	access	n	latforms.

(2)Remove all ground handling and maintenance equipment, standard and special tools, together with ground power and replenishing equipment and miscellaneous items.

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

PRESSURIZATION TEST OF FUSELAGE (LEAKAGE CHECK) AFTER A/C ABNORMAL OPERATION OR REPAIR

1. General

Pressurization tests at 4 psi ΔP and 8 psi ΔP are performed to check for possible cabin leakage after minor repair and major repair respectively; pressurization test at 8 psi ΔP is also performed to check for possible structural leakage.

2. Test at 4 psi ΔP for Leakage at Repaired Zone

WARNING : MAKE SURE THAT:

- ONLY THE PERSONS NECESSARY FOR THE PRESSURIZATION TEST ARE IN THE AIRCRAFT DURING THE TEST
- THE PERSONS IN THE AIRCRAFT ARE IN GOOD PHYSICAL CONDITION. BE CAREFUL WHEN YOU CONTROL THE PRESSURE. SUDDEN CHANGES IN PRESSURE CAN CAUSE PAIN AND INJURY.

<u>WARNING</u>: THERE MUST BE TWO PERSONS IN THE COCKPIT DURING THE PRESSURIZATION TEST.

IF A CHANGE IN PRESSURE HAS AN UNWANTED EFFECT (PAIN, NOISE IN THE EARS, HEADACHE OR OTHER) ON ONE PERSON, THE OTHER PERSON CAN ADJUST THE PRESSURE TO PREVENT INJURY.

<u>WARNING</u>: OPENING A PRESSURE SEALED DOOR WHEN THE AIRCRAFT IS FULLY OR PARTLY PRESSURIZED WILL CAUSE EXPLOSIVE DECOMPRESSION, DEATH OR INJURY TO PERSONNEL AND DAMAGE TO THE AIRCRAFT.

**ON A/C 226-226, 229-249, 401-401,

WARNING : DO NOT OPEN THE DOOR UNTIL THE RESIDUAL PRESSURE IS ELIMINATED.

NOTE : People with a cold, ear ache, sinus problem or other illness are not considered to be in good physical condition and should not be on the aircraft during the pressurization test.

R **ON A/C 404-500,

WARNING: DO NOT OPEN THE DOOR IF THE RED WARNING LIGHT IS FLASHING (REF. 52-70-00, P. BLOCK 1). THE DOOR COULD OPEN SUDDENLY DUE TO RESIDUAL PRESSURE AND CAUSE INJURY AND/OR DAMAGE.

NOTE: People with a cold, ear ache, sinus problem or other illness are not considered to be in good physical condition and should not be on the aircraft during the pressurization test.

**ON A/C ALL

- A. Reason for the Job

 To check for leakage at repaired zone.
- B. Equipment and Materials

EFFECTIVITY: ALL

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ITEM 	DESIGNATION
(1)	HP Ground Air Supply Unit (Press 15.45 PSIG ; temp Ca.100 °C)
(2)	Safety Barriers
(3)	Warning Notices
(4)	Leak Detecting Soap Solution
(5)	Safety Plug - Ref. MS21913-4
(6)	O-ring - Ref. NAS1612-4
(7)	Safety Streamer
Referenced Procedures	
- 23-51-00, P. Block 501	Audio Integrating
- 24-41-00, P. Block 301	AC External Power Control
- 49-00-00, P. Block 501	Airborne Auxiliary Power
**ON A/C ALL	
Post SB 25-2143 For A/	C ALL
- 52-51-00, P. Block 501	Fixed Interior Doors in Passenger Compartment
- 52-70-00, P. Block 1	Door Warning
EO 77 00 D DI 1. EO4	
- 52-75-UU, P. BLOCK 5U1	Residual Pressure Warning System
- 52-73-00, P. Block 501 **ON A/C ALL	Residual Pressure Warning System
**ON A/C ALL C. Procedure (1) Job set-up (a) The following comp they are connected vented to ambient - Standby and metr - Standby airspeed - Air data compute (b) Position safety ba to the work area. (c) Make certain that pressurized to the	onents can remain installed on aircraft provided th to the air data system and that this system is via the pitot and static probes: ic altimeters indicators (CAPT and F/O)
C. Procedure (1) Job set-up (a) The following comp they are connected vented to ambient - Standby and metr - Standby airspeed - Air data compute (b) Position safety ba to the work area. (c) Make certain that pressurized to the (d) Check that oxygen **ON A/C 226-226, 229-249,	onents can remain installed on aircraft provided the to the air data system and that this system is via the pitot and static probes: ic altimeters indicators (CAPT and F/O) rs (ADC 1 and 2). rriers and display warning notices prohibiting accessory oxygen storage compartment is not obstructed and is fuselage external pressure. mask stowage box doors are closed.
C. Procedure (1) Job set-up (a) The following comp they are connected vented to ambient - Standby and metr - Standby airspeed - Air data compute (b) Position safety ba to the work area. (c) Make certain that pressurized to the (d) Check that oxygen	onents can remain installed on aircraft provided the to the air data system and that this system is via the pitot and static probes: ic altimeters indicators (CAPT and F/O) rs (ADC 1 and 2). rriers and display warning notices prohibiting accessory oxygen storage compartment is not obstructed and is fuselage external pressure. mask stowage box doors are closed.

EFFECTIVITY: ALL

(Ref. 52-73-00, P. Block 501).

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R

(d)Do a functional test of residual pressure warning system

AIRCRAFT MAINTENANCE MANUAL

**ON A/C ALL

- (f)On the left side of flight compartment, at frame 10:
 - put a safety plug with its 0-ring on air inlet of pressure switch
 16WR
 - put a safety streamer on safety plug.
- (g) Make certain that center tank vapor seal ventilation outlet drain mast is not obstructed.
- (h)Make certain that water tanks are pressurized to same pressure as cabin. On panel 800VU, open safety and tag WATER COMPRESSOR circuit breaker 19MD.

On external water service panel, pull fill/drain valve handle to release tank pressure. Restore handle and close panel. Remove plug on pressurization line on water tank and leave line open.

(Ref. Fig. 001)

- (j) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (k) Make certain that electronics racks ventilation is correct.
- (l)On COMPT TEMP panel 437VU:
 - check that PACK VALVE 1 and 2 pushbutton switches are released (out),
 OFF legends on (pack flow control valves closed)
 - check that RAM AIR pushbutton switch is released (out) (emergency ram air inlet closed)
 - place the four temperature selectors in AUTO position.

(m)On CABIN PRESS panel 432VU:

- press MAN PRESS pushbutton switch (arrow and ON legend come on)
- open cabin pressure outflow valves by placing V/S CTL switch in UP position (check that pointers on the two cabin pressure outflow valve position indicators move from C to 0).

**ON A/C ALL

Post SB 25-2143 For A/C ALL

(n)On the panel 132VU, open the Cockpit Door Lock System (CDLS) circuit breaker 1MQ.

**ON A/C ALL

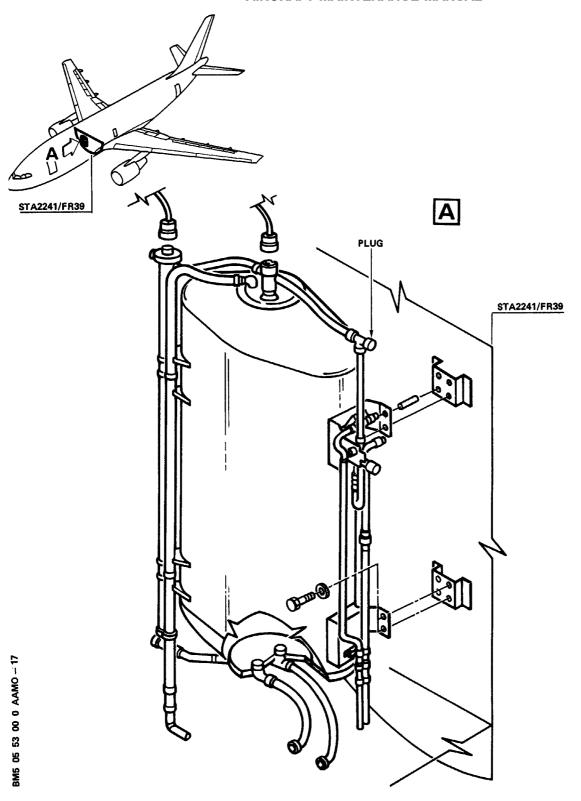
- (n)Not applicable.
- (p)Not applicable.
- (q)On VENT panel 438VU:
 - release OVBD VALVE pushbutton switch (OFF legend comes on) :
 - INBD flowbar comes on (inboard extract valve opens)
 - OVBD flowbar goes off (overboard extract valve closes)
- (r)Close and lock emergency exits and passenger/crew doors.
- (s)Test interphone communication between flight compartment and ground crew outside of protected area (Ref. 23-51-00, P. Block 501).
- (t)Pressurize pneumatic system:

EFFECTIVITY: ALL

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Water Tank Figure 001

EFFECTIVITY: ALL

R

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- Using APU
 - . start up APU (Ref. 49-00-00, P. Block 501); on AIR BLEED section of panel 436VU, APU BLEED switch is in ON position
- Using HP ground air supply unit
 - connect HP ground air supply unit to HP ground connectors
 - . on AIR BLEED section of panel 436VU, release X FEED mode pushbutton switch (MAN legend on) and press X FEED valve position pushbutton switch (flowbar in line).

RESULT.

(2)Test

ACTION

______ (a)On COMPT TEMP panel 437VU

- press PACK VALVE 1 and 2 pushbutton switches
- control cabin temperature as required

(b)On CABIN PRESS panel 432VU

 momentarily place V/S CTL switch in **DN** position to increase cabin pressure (cabin rate of change should not exceed 500 ft/mn) until a 4 psi differential pressure is reached.

WARNING: - AN EXCESSIVE CABIN ALTITUDE VARIATION CAN CAUSE INJURY TO PERSONNEL.

- DO NOT EXCEED A 4 PSI DIFFERENTIAL PRESSURE.

(c)Allow pressure to stabilize at 4 psi ΔP .

(d)Check for leakage by applying leak detecting soap solution.

(e)On CABIN PRESS panel 432VU

- momentarily place V/S CTL switch in UP position to decrease cabin pressure (cabin rate of change should not exceed 500 ft/mn).

(f)When ΔP is below 0.2 psi:

- On VENT panel 438VU :
 - push OVBD VALVE pushbutton switch (the OFF legend goes off).

On panel 437VU

- OFF legends on PACK VALVE pushbutton switches go off (flowbars on PACK VALVE annunciators are on).

On panel 432VU

- cabin vertical speed indicator displays cabin altitude/pressure rate of change
- cabin differential pressure indicator displays an increase in differential pressure (ΔP).

On panel 432VU

- cabin vertical speed indicator displays cabin altitude rate of change
- cabin differential pressure indicator displays a decrease in differential pressure.

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

**ON A/C 226-226, 229-249, 401-401,

WARNING: DO NOT OPEN THE DOOR UNTIL THE RESIDUAL PRESSURE IS ELIMINATED.

R **ON A/C 404-500,

WARNING: DO NOT OPEN THE DOOR IF THE RED WARNING LIGHT IS FLASHING (REF. 52-70-00, P. BLOCK 1). THE DOOR COULD OPEN SUDDENLY DUE TO RESIDUAL PRESSURE AND CAUSE INJURY AND/OR DAMAGE.

**ON A/C ALL

(a)On the left side of flight compartment, at frame 10:

- remove safety streamer from safety plug
- remove safety plug with its **0**-ring from air inlet of pressure switch **16WR**.
- (b) Restore system and aircraft to normal operating condition.
- 3. Test at 8 psi ΔP for Leakage at Repaired Zone

WARNING : MAKE SURE THAT:

- ONLY THE PERSONS NECESSARY FOR THE PRESSURIZATION TEST ARE IN THE AIRCRAFT DURING THE TEST
- THE PERSONS IN THE AIRCRAFT ARE IN GOOD PHYSICAL CONDITION. BE CAREFUL WHEN YOU CONTROL THE PRESSURE. SUDDEN CHANGES IN PRESSURE CAN CAUSE PAIN AND INJURY.
- <u>WARNING</u>: THERE MUST BE TWO PERSONS IN THE COCKPIT DURING THE PRESSURIZATION TEST.

IF A CHANGE IN PRESSURE HAS AN UNWANTED EFFECT (PAIN, NOISE IN THE EARS, HEADACHE, OR OTHER) ON ONE PERSON, THE OTHER PERSON CAN ADJUST THE PRESSURE TO PREVENT INJURY.

WARNING: OPENING A PRESSURE SEALED DOOR WHEN THE AIRCRAFT IS FULLY OR PARTLY PRESSURIZED WILL CAUSE EXPLOSIVE DECOMPRESSION, DEATH OR INJURY TO PERSONNEL AND DAMAGE TO THE AIRCRAFT.

**ON A/C ALL

Post SB 25-2143 For A/C ALL

- (a)On the left side of flight compartment, at frame 10:
 - remove safety streamer from safety plug
 - remove safety plug with its 0-ring from air inlet of pressure switch
 16WR.
- (b)On the panel 132VU, close the CDLS circuit breaker 1MQ and do a CDLS test (Ref. 52-51-00, P. Block 501).
- (c)Restore system and aircraft to normal operating condition.
- 3. Test at 8 psi ΔP for Leakage at Repaired Zone

WARNING : MAKE SURE THAT:

- ONLY THE PERSONS NECESSARY FOR THE PRESSURIZATION TEST ARE IN

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THE AIRCRAFT DURING THE TEST

- THE PERSONS IN THE AIRCRAFT ARE IN GOOD PHYSICAL CONDITION. BE CAREFUL WHEN YOU CONTROL THE PRESSURE. SUDDEN CHANGES IN PRESSURE CAN CAUSE PAIN AND INJURY.

<u>WARNING</u>: THERE MUST BE TWO PERSONS IN THE COCKPIT DURING THE PRESSURIZATION

TEST.

IF A CHANGE IN PRESSURE HAS AN UNWANTED EFFECT (PAIN, NOISE IN THE EARS, HEADACHE, OR OTHER) ON ONE PERSON, THE OTHER PERSON CAN

ADJUST THE PRESSURE TO PREVENT INJURY.

 $\underline{\mathtt{WARNING}}$: OPENING A PRESSURE SEALED DOOR WHEN THE AIRCRAFT IS FULLY OR PARTLY

PRESSURIZED WILL CAUSE EXPLOSIVE DECOMPRESSION, DEATH OR INJURY TO

PERSONNEL AND DAMAGE TO THE AIRCRAFT.

**ON A/C 226-226, 229-249, 401-401,

WARNING: DO NOT OPEN THE DOOR UNTIL THE RESIDUAL PRESSURE IS ELIMINATED.

NOTE: People with a cold, ear ache, sinus problem or other illness are not considered to be in good physical condition and should not be on the aircraft during the pressurization test.

R **ON A/C 404-500,

WARNING : DO NOT OPEN THE DOOR IF THE RED WARNING LIGHT IS FLASHING

(REF. 52-70-00, P. BLOCK 1). THE DOOR COULD OPEN SUDDENLY DUE TO

RESIDUAL PRESSURE AND CAUSE INJURY AND/OR DAMAGE.

NOTE: People with a cold, ear ache, sinus problem or other illness

are not considered to be in good physical condition and should not be

on the aircraft during the pressurization test.

**ON A/C ALL

A. Reason for the Job (1)To check for leakage at repaired zone.

B. Equipment and Materials

ITEM	DESIGNATION
(1)	Electrical Ground Power Unit - 3-Phase, 115/220 V, 400 Hz, 90 KVA
(2)	HP Ground Air Supply Unit (pressure 15-45 psig; temperature 100°C approx.)
(3)	Safety Barriers
(4)	Warning Notices
(5)	Leak Detecting Soap Solution
(6)	Safety Plug - Ref. MS21913-4
(7)	O-ring - Ref. NAS1612-4
(8)	Safety Streamer
Referenced Procedures	•
- 23-51-00, P. Block 501	Audio Integrating

EFFECTIVITY: ALL

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ITE	M	DESIGNATION
	4-41-00, P. Block 301 5-12-51, P. Block 401	AC External Power Control Quick Donning Oxygen Mask - Removal/Installation
	9-00-00, P. Block 501 N A/C 404-500,	Airborne Auxiliary Power
	2-70-00, P. Block 1 2-73-00, P. Block 501	Door Warning Residual Pressure Warning System

C. Procedure

R

(1) Job set-up

- (a) The following components can remain installed on aircraft provided that they are connected to the air data system and that this system is vented to ambient via the pitot and static probes:
 - Standby and metric altimeters
 - Standby airspeed indicators (CAPT and F/O)
 - Air data computers (ADC1 and 2).
- (b)Position safety barriers and display warning notices prohibiting access to the work area.
- (c) Make certain that oxygen storage compartment is not obstructed and is pressurized to the fuselage external pressure.
- (d)Check that oxygen mask stowage box doors are closed.

**ON A/C 226-226, 229-249, 401-401,

(e)Not applicable.

R **ON A/C 404-500,

(e)Do a functional test of residual pressure warning system (Ref. 52-73-00, P. Block 501).

**ON A/C ALL

- (f)On the left side of the cockpit, at frame 10:
 - put the safety plug with its 0-ring on the air inlet of the pressure switch 16WR
 - put a safety streamer on the safety plug.
- (g)We recommend that you remove the crew oxygen masks (Ref. 35-12-51, P. Block 401).

NOTE: This test requires an absolute pressure higher than the cabin pressures you get during usual aircraft operations. The crew masks have an aneroid capsule that is usually resistant to the absolute pressures you can get during

EFFECTIVITY: ALL

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this test.

But, to prevent high stress on the aneroid capsule, we recommend the removal of the oxygen masks.

- (h) Make certain that center tank vapor seal ventilation outlet drain mast is not obstructed.
- (j)Make certain that water tanks are pressurized to same pressure as cabin. On panel 800VU, open, safety and tag WATER COMPRESSOR circuit breaker 19MD.

On external water service panel, pull fill/drain valve handle to release tank pressure. Restore handle and close panel. Remove plug on pressurization line on water tank and leave line open. (Ref. Fig. 001)

**ON A/C ALL

Post SB 25-2143 For A/C ALL

(k) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

(l) Make certain that electronics racks ventilation is correct.

(m)On COMPT TEMP panel 437VU

- check that PACK VALVE 1 and 2 pushbutton switches are released (out),
 OFF legends on (pack flow control valves closed)
- check that RAM AIR pushbutton switch is released (out) (emergency ram air inlet closed)
- place the four temperature selectors in AUTO position.

(n)On CABIN PRESS panel 432VU

- press MAN PRESS pushbutton switch (arrow and ON legend come on)
- open cabin pressure outflow valves by placing V/S CTL switch in UP position (check that pointers on the two cabin pressure outflow valve position indicators move from C to 0).
- (p)On the panel 132VU, open the Cockpit Door Lock System (CDLS) circuit breaker 1MQ.

**ON A/C ALL

(k) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

(l) Make certain that electronics racks ventilation is correct.

(m)On COMPT TEMP panel 437VU

- check that PACK VALVE 1 and 2 pushbutton switches are released (out),
 OFF legends on (pack flow control valves closed)
- check that RAM AIR pushbutton switch is released (out) (emergency ram air inlet closed)
- place the four temperature selectors in AUTO position.

(n)On CABIN PRESS panel 432VU

- press MAN PRESS pushbutton switch (arrow and ON legend come on)
- open cabin pressure outflow valves by placing V/S CTL switch in UP position (check that pointers on the two cabin pressure outflow valve position indicators move from C to 0).
- (p) Not applicable
- (q)Not applicable

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AIRCRAFT MAINTENANCE MANUAL

(r)On VENT panel 438VU:

- release OVBD VALVE pushbutton switch (OFF legend comes on):
 - INBD flowbar comes on (inboard extract valve opens)
 - . OVBD flowbar goes off (overboard extract valve closes).
- (s)Close and lock emergency exits and passenger/crew doors.
- (t)Test interphone communication between flight compartment and ground crew outside of protected area (Ref. 23-51-00, P. Block 501).
- (u)Pressurize pneumatic system:
 - Using APU
 - . start up APU (Ref. 49-00-00, P. Block 501); on AIR BLEED section of panel 436VU, APU BLEED switch is in ON position.
 - Using HP ground air supply unit
 - connect HP ground air supply unit to HP ground connectors
 - . on AIR BLEED section of panel 436VU, release X FEED mode pushbutton switch (MAN legend on) and press X FEED valve position pushbutton switch (flowbar in line).

RESULT.

(2)Test

ACTION

(a)On COMPT TEMP panel 437VU - press PACK VALVE 1 and/or 2 push- - OFF legends on PACK VALVE push-

- button switches - control cabin temperature as required
- (b)On CABIN PRESS panel 432VU
 - momentarily place V/S CTL switch in DN position to increase cabin pressure (cabin rate of change should not exceed 500 ft/mn) until a 8 psi differential pressure is reached.
 - WARNING: AN EXCESSIVE CABIN ALTI-TUDE VARIATION CAN CAUSE INJURY TO PERSONNEL.
 - DO NOT EXCEED A 8 PSI DIFFERENTIAL PRESSURE.
- (c)Allow pressure to stabilize at 8 psi ΔP .
- (d)Check for leakage by applying leak detecting soap solution.
- (e)On CABIN PRESS panel 432VU
 - momentarily place V/S CTL switch in **UP** position to decrease cabin pressure (cabin rate of change should not exceed 500 ft/mn).

On panel 437VU

button switches go off (flowbars on PACK VALVE annunciators are on).

On panel 432VU

- cabin vertical speed indicator displays cabin altitude/pressure rate of change
- cabin differential pressure indicator displays an increase in differential pressure (ΔP).

On panel 432VU

- cabin vertical speed indicator displays cabin altitude rate of change
- cabin differential pressure indicator displays a decrease in differential pressure.

EFFECTIVITY: ALL

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ACTION

RESULT

(f)When ΔP is below 0.2 psi:

- On VENT panel 438VU:
 - push OVBD VALVE pushbutton switch (the OFF legend goes off).

(3)Close-up

**ON A/C 226-226, 229-249, 401-401,

WARNING: DO NOT OPEN THE DOOR UNTIL THE RESIDUAL PRESSURE IS ELIMINATED.

R **ON A/C 404-500,

WARNING : DO NOT OPEN THE DOOR IF THE RED WARNING LIGHT IS FLASHING (REF. 52-70-00, P. BLOCK 1). THE DOOR COULD OPEN SUDDENLY DUE TO RESIDUAL PRESSURE AND CAUSE INJURY AND/OR DAMAGE.

**ON A/C ALL

Post SB 25-2143 For A/C ALL

- (a)On the left side of flight compartment, at frame 10:
 - remove safety streamer from safety plug
 - remove safety plug with its O-ring from air inlet of pressure switch 16WR.
- (b)If you removed the crew oxygen masks, install them (Ref. 35-12-51, P. Block 401).
- (c)On the panel 132VU, close the CDLS circuit breaker 1MQ and do a CDLS test (Ref. 52-51-00, P. Block 501).
- (d)Restore system and aircraft to normal operating condition.
- 4. Test at 8 psi ΔP for Structure Leakage Measurement

WARNING : MAKE SURE THAT:

- ONLY THE PERSONS NECESSARY FOR THE PRESSURIZATION TEST ARE IN THE AIRCRAFT DURING THE TEST
- THE PERSONS IN THE AIRCRAFT ARE IN GOOD PHYSICAL CONDITION. BE CAREFUL WHEN YOU CONTROL THE PRESSURE. SUDDEN CHANGES IN PRESSURE CAN CAUSE PAIN AND INJURY.
- <u>WARNING</u>: THERE MUST BE TWO PERSONS IN THE COCKPIT DURING THE PRESSURIZATION TEST.

IF A CHANGE IN PRESSURE HAS AN UNWANTED EFFECT (PAIN, NOISE IN THE EARS, HEADACHE OR OTHER) ON ONE PERSON, THE OTHER PERSON CAN ADJUST THE PRESSURE TO PREVENT INJURY.

<u>WARNING</u>: OPENING A PRESSURE SEALED DOOR WHEN THE AIRCRAFT IS FULLY OR PARTLY PRESSURIZED WILL CAUSE EXPLOSIVE DECOMPRESSION, DEATH OR INJURY TO PERSONNEL AND DAMAGE TO THE AIRCRAFT.

EFFECTIVITY: ALL

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**ON A/C ALL

- (a)On the left side of flight compartment, at frame 10:
 - remove safety streamer from safety plug
 - remove safety plug with its **O**-ring from air inlet of pressure switch **16WR**.
- (b)If you removed the crew oxygen masks, install them (Ref. 35-12-51, P. Block 401).
- (c)Not applicable.
- (d)Restore system and aircraft to normal operating condition.
- 4. Test at 8 psi ΔP for Structure Leakage Measurement

WARNING : MAKE SURE THAT :

- ONLY THE PERSONS NECESSARY FOR THE PRESSURIZATION TEST ARE IN THE AIRCRAFT DURING THE TEST
- THE PERSONS IN THE AIRCRAFT ARE IN GOOD PHYSICAL CONDITION. BE CAREFUL WHEN YOU CONTROL THE PRESSURE. SUDDEN CHANGES IN PRESSURE CAN CAUSE PAIN AND INJURY.
- <u>WARNING</u>: THERE MUST BE TWO PERSONS IN THE COCKPIT DURING THE PRESSURIZATION TEST.

IF A CHANGE IN PRESSURE HAS AN UNWANTED EFFECT (PAIN, NOISE IN THE EARS, HEADACHE, OR OTHER) ON ONE PERSON, THE OTHER PERSON CAN ADJUST THE PRESSURE TO PREVENT INJURY.

<u>WARNING</u>: OPENING A PRESSURE SEALED DOOR WHEN THE AIRCRAFT IS FULLY OR PARTLY PRESSURIZED WILL CAUSE EXPLOSIVE DECOMPRESSION, DEATH OR INJURY TO PERSONNEL AND DAMAGE TO THE AIRCRAFT.

**ON A/C 226-226, 229-249, 401-401,

WARNING: DO NOT OPEN THE DOOR UNTIL THE RESIDUAL PRESSURE IS ELIMINATED.

NOTE: People with a cold, ear ache, sinus problem or other illness are not considered to be in good physical condition and should not be on the aircraft during the pressurization test.

- R **ON A/C 404-500,
 - WARNING : DO NOT OPEN THE DOOR IF THE RED WARNING LIGHT IS FLASHING (REF. 52-70-00, P. BLOCK 1). THE DOOR COULD OPEN SUDDENLY DUE TO RESIDUAL PRESSURE AND CAUSE INJURY AND/OR DAMAGE.
 - NOTE: People with a cold, ear ache, sinus problem or other illness are not considered to be in good physical condition and should not be on the aircraft during the pressurization test.

**ON A/C ALL

- A. Reason for the Job (1)To check that structural leakage does not exceed the authorized maximum.
- B. Equipment and Materials

EFFECTIVITY: ALL

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ITEM	DESIGNATION
(1)	Electrical Ground Power Unit - 3-Phase, 115/220 V, 400 Hz, 90 KVA
(2)	HP Ground Air Supply Unit (pressure 15-45 psig; temperature 100°C approx.)
(3)	Safety Barriers
(4)	Warning Notices
(5)97A21102506000	Blanking Tool
(6)	Leak Detecting Soap Solution
(8)	Safety Plug - Ref. MS21913-4
(9)	O-ring - Ref. NAS1612-4
(10)	Safety Streamer
Referenced Procedures	
- 23-51-00, P. Block 501	Audio Integrating
- 24-41-00, P. Block 301	AC External Power Control
- 35-12-51, P. Block 401	Quick Donning Oxygen Mask - Removal/Installation
- 35-21-41, P. Block 401	Altitude Switch
- 49-00-00, P. Block 501	Airborne Auxiliary Power
**ON A/C 404-500,	
- 52-70-00, P. Block 1	Door Warning
- 52-73-00, P. Block 501	Residual Pressure Warning System
**ON A/C ALL	

C. Procedure

(1) Job set-up

- (a) The following components can remain installed on aircraft provided that they are connected to the air data system and that this system is vented to ambient via the pitot and static probes.
 - Standby and metric altimeters
 - Standby airspeed indicators (CAPT and F/O)
 - Air data computers (ADC1 and 2).
- (b)Position safety barriers and display warning notices prohibiting access to the work area.
- (c)Make certain that oxygen storage compartment is not obstructed and is pressurized to the fuselage external pressure.
- (d)Check that oxygen mask stowage box doors are closed.

**ON A/C 226-226, 229-249, 401-401,

(e)Not applicable.

R **ON A/C 404-500,

EFFECTIVITY: ALL

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(e)Do a functional test of residual pressure warning system (Ref. 52-73-00, P. Block 501).

**ON A/C ALL

- (f)On the left side of flight compartment, at frame 10:
 - put safety plug with its O-ring on air inlet of pressure switch 16WR
 - put a safety streamer on safety plug.
- (g)We recommend that you remove the crew oxygen masks (Ref. 35-12-51, P. Block 401).
 - NOTE: This test requires an absolute pressure higher than the cabin pressures you get during usual aircraft operations. The crew masks have an aneroid capsule that is usually resistant to the absolute pressures you can get during this test.

But, to prevent high stress on the aneroid capsule, we recommend the removal of the oxygen masks.

- (h)Install blanking tool 97A21102506000 on lavatory and galley ventilation outlets aft of FR78.
- (j)Make certain that center tank vapor seal ventilation outlet drain mast is not obstructed.
- (k) Make certain that water tanks are pressurized to same pressure as cabin.
- (l)On panel 800VU, open, safety and tag WATER COMPRESSOR circuit breaker 19MD.
- (m)On external water service panel, pull fill/drain valve handle to release tank pressure. Restore handle and close panel. Remove plug on pressurization line on water tank and leave line open. (Ref. Fig. 001)

**ON A/C ALL

Post SB 25-2143 For A/C ALL

- (n) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (p)Make certain that electronics racks ventilation is correct.
- (q)On COMPT TEMP panel 437VU
 - check that PACK VALVE 1 and 2 pushbutton switches are released (out),
 OFF legends on (pack flow control valves closed)
 - check that RAM AIR pushbutton switch is released (out) (emergency ram air inlet closed)
 - place the four temperature selectors in AUTO position.
- (r)On CABIN PRESS panel 432VU
 - press MAN PRESS pushbutton switch (arrow and ON legend come on)
 - open cabin pressure outflow valves by placing V/S CTL switch in UP position (check that pointers on the two cabin pressure outflow valve position indicators move from C to 0).
- (s)On the panel 132VU, open the Cockpit Door Lock System (CDLS) circuit breaker 1MQ.

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**ON A/C ALL

(n)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301). (p)Make certain that electronics racks ventilation is correct. (g)On COMPT TEMP panel 437VU

- check that PACK VALVE 1 and 2 pushbutton switches are released (out), OFF legends on (pack flow control valves closed)
- check that RAM AIR pushbutton switch is released (out) (emergency ram air inlet closed)
- place the four temperature selectors in AUTO position.

(r)On CABIN PRESS panel 432VU

- press MAN PRESS pushbutton switch (arrow and ON legend come on)
- open cabin pressure outflow valves by placing V/S CTL switch in UP position (check that pointers on the two cabin pressure outflow valve position indicators move from C to O).

(s)Not applicable.

(t)Not applicable

(u)On VENT panel 438VU:

- release OVBD VALVE pushbutton switch (OFF legend comes on):
 - INBD flowbar comes on (inboard extract valve opens)
 - . OVBD flowbar goes off (overboard extract valve closes)
- (v)Close and lock emergency exits and passenger/crew doors.
- (w)Test interphone communication between flight compartment and ground crew outside of protected area (Ref. 23-51-00, P. Block 501).

(x)Pressurize pneumatic system:

- Using APU
 - . start up APU (Ref. 49-00-00, P. Block 501); on AIR BLEED section of panel 436VU, APU BLEED switch is in ON position
- Using HP ground air supply unit
 - connect HP ground air supply unit to HP ground connectors
 - . on AIR BLEED section of panel 436VU, release X FEED mode pushbutton switch (MAN legend on) and press X FEED valve position pushbutton switch (flowbar in line).

RESULT

(a)On COMPT TEMP panel 437VU

- On COMPT TEMP panel 437VU On panel 437VU press PACK VALVE 1 and/or 2 push- OFF legends on PACK VALVE pushbutton switches
- control cabin temperature as required

(b)On CABIN PRESS panel 432VU

- momentarily place V/S CTL switch in DN position to increase cabin pressure (cabin rate of change should not exceed 500 ft/mn) until a 8 psi differential pressure is reached.

button switches go off (flowbars on PACK VALVE annunciators are on).

On panel 432VU

- cabin vertical speed indicator displays cabin altitude/pressure rate of change
- cabin differential pressure indicator displays an increase in differential pressure (ΔP).

EFFECTIVITY: ALL

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ACTION RESULT

WARNING : - AN EXCESSIVE CABIN ALTI-

TUDE VARIATION CAN CAUSE INJURY TO PERSONNEL.

- DO NOT EXCEED A 8 PSI DIFFERENTIAL PRESSURE.

(c)On COMPT TEMP panel 437VU

 release PACK VALVE 1 and 2 pushbutton switches.

(d)On CABIN PRESS panel 432VU

 place V/S CTL switch in DN position to close the outflow valves.

(e)When the outflow valves are closed:

- start stop watch.

(f)On CABIN PRESS panel 432VU

- momentarily place V/S CTL switch in UP position to decrease cabin pressure (cabin rate of change should not exceed 500 ft/mn).

(g)On COMPT TEMP panel 437VU

 press PACK VALVE 1 and 2 pushbutton switches.

(h)Continue to decrease cabin pressure. When ΔP is below 0.2 psi:

- On VENT panel 438VU:

push OVBD VALVE pushbutton switch (the OFF legend goes off).

(3)Close-up

**ON A/C 226-226, 229-249, 401-401,

WARNING: DO NOT OPEN THE DOOR UNTIL THE RESIDUAL PRESSURE IS ELIMINATED.

R **ON A/C 404-500,

On panel 437VU

 OFF legends on PACK VALVE pushbutton switches come on (flowbars on PACK VALVE annunciators are OFF).

On panel 432VU

 make sure that the outflow valves are closed.

Check that cabin ΔP drop is not exceeding 1 psi in 110 s.

On panel 432VU

- cabin vertical speed indicator displays cabin altitude rate of change
- cabin differential pressure indicator displays a decrease in differential pressure.

On panel 437VU

 OFF legends on PACK VALVE pushbutton switches go off (flowbars on PACK VALVE annunciators are on).

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WARNING: DO NOT OPEN THE DOOR IF THE RED WARNING LIGHT IS FLASHING (REF. 52-70-00, P. BLOCK 1). THE DOOR COULD OPEN SUDDENLY DUE TO RESIDUAL PRESSURE AND CAUSE INJURY AND/OR DAMAGE.

**ON A/C ALL

Post SB 25-2143 For A/C ALL

- (a)On the left side of flight compartment at frame 10:
 - remove safety streamer from safety plug
 - remove safety plug with its O-ring from air inlet of pressure switch 16WR.
- (b)If you removed the crew oxygen masks, install them (Ref. 35-12-51, P. Block 401).
- (c)On the panel 132VU, close the CDLS circuit breaker 1MQ and do a CDLS test (Ref. 52-51-00, P. Block 501).
- (d)Restore system and aircraft to normal operating condition.
- 5. Test at 4 psi ΔP for Structure Leakage Measurement

WARNING : MAKE SURE THAT :

- ONLY THE PERSONS NECESSARY FOR THE PRESSURIZATION TEST ARE IN THE AIRCRAFT DURING THE TEST
- THE PERSONS IN THE AIRCRAFT ARE IN GOOD PHYSICAL CONDITION. BE CAREFUL WHEN YOU CONTROL THE PRESSURE. SUDDEN CHANGES IN PRESSURE CAN CAUSE PAIN AND INJURY.
- <u>WARNING</u>: THERE MUST BE TWO PERSONS IN THE COCKPIT DURING THE PRESSURIZATION TEST.

IF A CHANGE IN PRESSURE HAS AN UNWANTED EFFECT (PAIN, NOISE IN THE EARS, HEADACHE OR OTHER) ON ONE PERSON, THE OTHER PERSON CAN ADJUST THE PRESSURE TO PREVENT INJURY.

WARNING: OPENING A PRESSURE SEALED DOOR WHEN THE AIRCRAFT IS FULLY OR PARTLY PRESSURIZED WILL CAUSE EXPLOSIVE DECOMPRESSION, DEATH OR INJURY TO PERSONNEL AND DAMAGE TO THE AIRCRAFT.

**ON A/C ALL

R

R

- (a)On the left side of flight compartment at frame 10:
 - remove safety streamer from safety plug
 - remove safety plug with its **0**-ring from air inlet of pressure switch
- (b)If you removed the crew oxygen masks, install them (Ref. 35-12-51, P. Block 401).
- (c)Not applicable.
- (d)Restore system and aircraft to normal operating condition.
- 5. Test at 4 psi ΔP for Structure Leakage Measurement

WARNING : MAKE SURE THAT:

- ONLY THE PERSONS NECESSARY FOR THE PRESSURIZATION TEST ARE IN THE AIRCRAFT DURING THE TEST
- THE PERSONS IN THE AIRCRAFT ARE IN GOOD PHYSICAL CONDITION.

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BE CAREFUL WHEN YOU CONTROL THE PRESSURE. SUDDEN CHANGES IN PRESSURE CAN CAUSE PAIN AND INJURY.

WARNING: THERE MUST BE TWO PERSONS IN THE COCKPIT DURING THE PRESSURIZATION

TEST.

IF A CHANGE IN PRESSURE HAS AN UNWANTED EFFECT (PAIN, NOISE IN THE

EARS, HEADACHE OR OTHER) ON ONE PERSON, THE OTHER PERSON CAN

ADJUST THE PRESSURE TO PREVENT INJURY.

WARNING: OPENING A PRESSURE SEALED DOOR WHEN THE AIRCRAFT IS FULLY OR PARTLY

PRESSURIZED WILL CAUSE EXPLOSIVE DECOMPRESSION, DEATH OR INJURY TO

PERSONNEL AND DAMAGE TO THE AIRCRAFT.

**ON A/C 226-226, 229-249, 401-401,

WARNING: DO NOT OPEN THE DOOR UNTIL THE RESIDUAL PRESSURE IS ELIMINATED.

NOTE: People with a cold, ear ache, sinus problem or other illness

are not considered to be in good physical condition and should not be

on the aircraft during the pressurization test.

R **ON A/C 404-500,

WARNING: DO NOT OPEN THE DOOR IF THE RED WARNING LIGHT IS FLASHING

(REF. 52-70-00, P. BLOCK 1). THE DOOR COULD OPEN SUDDENLY DUE TO

RESIDUAL PRESSURE AND CAUSE INJURY AND/OR DAMAGE.

NOTE: People with a cold, ear ache, sinus problem or other illness

are not considered to be in good physical condition and should not be

on the aircraft during the pressurization test.

**ON A/C ALL

A. Reason for the Job
(1)To check that structural leakage does not exceed the authorized maximum.

B. Equipment and Materials

ITEM	DESIGNATION
(1)	HP Ground Air Supply Unit (Press 15.45 PSIG ; temp Ca.100 °C)
(2)	Safety Barriers
(3)	Warning Notices
(4)97A21102506000	Blanking Tool
(5)	Safety Plug - Ref. MS21913-4
(6)	O-ring - Ref. NAS1612-4
(7)	Safety Streamer
Referenced Procedures	
- 23-51-00, P. Block 501	Audio Integrating
- 24-41-00, P. Block 301	AC External Power Control
- 49-00-00, P. Block 501	Airborne Auxiliary Power

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______ DESIGNATION

R **ON A/C 404-500,

- 52-70-00, P. Block 1 Door Warning - 52-73-00, P. Block 501 Residual Pressure Warning System

**ON A/C ALL

C. Procedure

(1) Job set-up

- (a) The following components can remain installed on aircraft provided that they are connected to the air data system and that this system is vented to ambient via the pitot and static probes:
 - Standby and metric altimeters
 - Standby airspeed indicators (CAPT and F/O)
 - Air data computers (ADC 1 and 2).
- (b)Position safety barriers and display warning notices prohibiting access to the work area.
- (c)Make certain that oxygen storage compartment is not obstructed and is pressurized to the fuselage external pressure.
- (d)Check that oxygen mask stowage box doors are closed.

**ON A/C 226-226, 229-249, 401-401,

(e)Not applicable.

R **ON A/C 404-500,

(e)Do a functional test of residual pressure warning system (Ref. 52-73-00, P. Block 501).

**ON A/C ALL

- (f)On the left side of flight compartment, at frame 10:
 - put safety plug with its 0-ring on air inlet of pressure switch 16WR
 - put a safety streamer on safety plug.
- (g)Install blanking tool 97A21102506000 on lavatory and galley ventilation outlets aft of FR78.
- (h)Make certain that center tank vapor seal ventilation outlet drain mast is not obstructed.
- (j) Make certain that water tanks are pressurized to same pressure as cabin.
- (k)On panel 800VU, open, safety and tag WATER COMPRESSOR circuit breaker
- (l)On external water service panel, pull fill/drain valve handle to

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release tank pressure. Restore handle and close panel. Remove plug on pressurization line on water tank and leave line open. (Ref. Fig. 001)

**ON A/C ALL

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(m)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301). (n)Make certain that electronics racks ventilation is correct.

- (p)On COMPT TEMP panel 437VU
 - check that PACK VALVE 1 and 2 pushbutton switches are released (out),
 OFF legends on (pack flow control valves closed)
 - check that RAM AIR pushbutton switch is released (out) (emergency ram air inlet closed)
 - place the four temperature selectors in AUTO position.

(q)On CABIN PRESS panel 432VU

- press MAN PRESS pushbutton switch (arrow and ON legend come on)
- open cabin pressure outflow valves by placing V/S CTL switch in UP position (check that pointers on the two cabin pressure outflow valve position indicators move from C to 0).
- (r)On the panel 132VU, open the Cockpit Door Lock System (CDLS) circuit breaker 1MQ.

**ON A/C ALL

(m)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301). (n)Make certain that electronics racks ventilation is correct. (p)On COMPT TEMP panel 437VU

- check that PACK VALVE 1 and 2 pushbutton switches are released (out),
 OFF legends on (pack flow control valves closed)
- check that RAM AIR pushbutton switch is released (out) (emergency ram air inlet closed)
- place the four temperature selectors in AUTO position.

(q)On CABIN PRESS panel 432VU

- press MAN PRESS pushbutton switch (arrow and ON legend come on)
- open cabin pressure outflow valves by placing V/S CTL switch in UP position (check that pointers on the two cabin pressure outflow valve position indicators move from C to 0).

(r)Not applicable.

(s)Not applicable.

(t)On VENT panel 438VU:

- release OVBD VALVE pushbutton switch (OFF legend comes on):
 - INBD flowbar comes on (inboard extract valve opens)
 - OVBD flowbar goes off (overboard extract valve closes)
- (u)Close and lock emergency exits and passenger/crew doors.
- (v)Test interphone communication between flight compartment and ground crew outside of protected area (Ref. 23-51-00, P. Block 501).
- (w)Pressurize pneumatic system:
 - Using APU

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- . start up APU (Ref. 49-00-00, P. Block 501); on AIR BLEED section of panel 436VU, APU BLEED switch is in ON position
- Using HP ground air supply unit
 - connect HP ground air supply unit to HP ground connectors
 - . on AIR BLEED section of panel 436VU, release X FEED mode pushbutton switch (MAN legend on) and press X FEED valve position pushbutton switch (flowbar in line).

(2)Test

RESULT

- button switches
- control cabin temperature as required

(b)On CABIN PRESS panel 432VU

 momentarily place V/S CTL switch in DN position to increase cabin pressure (cabin rate of change should not exceed 500 ft/mn) until reached.

WARNING: - AN EXCESSIVE CABIN ALTITUDE

VARIATION CAN CAUSE INJURY

TO PERSONNEL.

- DO NOT EXCEED A 4 PSI DIFFERENTIAL PRESSURE.

(c)On COMPT TEMP panel 437VU

- release PACK VALVE 1 and 2 pushbutton switches.

(d)On CABIN PRESS panel 432VU

- place V/S CTL switch in DN position to close the outflow valves.
- (e)When the outflow valves are closed:
 - start the stop watch.

(f)On CABIN PRESS panel 432VU

- momentarily place V/S CTL switch in **UP** position to decrease cabin pressure (cabin rate of change should not exceed 500 ft/mn).

(a)On COMPT TEMP panel 437VU On panel 437VU - press PACK VALVE 1 and 2 push- - OFF legends on PACK VALVE pushbutton switches go off (flowbars on PACK VALVE annunciators are on).

On panel 432VU

- cabin vertical speed indicator displays cabin altitude/pressure rate of change
- cabin differential pressure a 4 psi differential pressure is indicator displays an increase in differential pressure (ΔP).

On panel 437VU

- OFF legends on PACK VALVE pushbutton switches come on (flowbars on PACK VALVE annunciators are OFF).

On panel 432VU

- make sure that the outflow valves are closed.

On panel 432VU

- on cabin vertical speed indicator, check that cabin altitude rate of change does not exceed 590 ft./mn ±50 ft./mn.

On panel 432VU

- cabin vertical speed indicator displays cabin altitude rate of change
- cabin differential pressure indicator displays a decrease in

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ACTION RESULT

differential pressure.

(g)On COMPT TEMP panel 437VU

- press PACK VALVE 1 and 2 pushbutton switches. On panel 437VU

 OFF legends on PACK VALVE pushbutton switches go off (flowbars on PACK VALVE annunciators are on).

(h)Continue to decrease cabin pressure.

When ΔP is below 0.2 psi:

- On VENT panel 438VU:
 - push OVBD VALVE pushbutton switch (the OFF legend goes off).

(3)Close-up

**ON A/C 226-226, 229-249, 401-401,

WARNING : DO NOT OPEN THE DOOR UNTIL THE RESIDUAL PRESSURE IS ELIMINATED.

R **ON A/C 404-500,

WARNING : DO NOT OPEN THE DOOR IF THE RED WARNING LIGHT IS FLASHING (REF. 52-70-00, P. BLOCK 1). THE DOOR COULD OPEN SUDDENLY DUE TO RESIDUAL PRESSURE AND CAUSE INJURY AND/OR DAMAGE.

**ON A/C ALL

Post SB 25-2143 For A/C ALL

(a)On the left side of flight compartment, at frame 10:

- remove safety streamer from safety plug
- remove safety plug with its O-ring from air inlet of pressure switch 16WR.
- (b)On the panel 132VU, close the CDLS circuit breaker 1MQ and do a CDLS test (Ref. 52-51-00, P. Block 501).
- (c) Restore system and aircraft to normal operating condition.

**ON A/C ALL

(a)On the left side of flight compartment, at frame 10:

- remove safety streamer from safety plug
- remove safety plug with its 0-ring from air inlet of pressure switch
 16WR.
- (b)Not applicable
- (c) Restore system and aircraft to normal operating condition.

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DEMAGNETIZATION

- 1. <u>Demagnetization of the External Parts of the Frames of the Windshield and Sliding Windows</u>
 - A. General

The demagnetization procedure is applicable to the external parts of the frames of the windshield and sliding windows.

Use this procedure if you are sure that incorrect deviation of the standby compass occurs after adjustment on the compensation base.

B. Procedure

(1)Equipment and Material

ITEM	DESIGNATION			
(a)DM05275A	Demagnetizer - 110V/60 Hz			
or DM05275B (b)MGM50	Demagnetizer - 220V/50 Hz Gaussmeter			
Referenced Procedures - 34-28-00, P. Block 501 - 34-28-21, P. Block 401	Standby Compass - Compensation Adjustment Standby Compass - Removal/Installation			

- (2) Job set-up
 - (a) Make sure that the aircraft is not energized (batteries, engines or external power supply).
 - (b)Remove the standby compass (Ref. 34-28-21, P. Block 401) from the cockpit and keep it away from magnetic sources.
- (3) Find the Magnetic Zones:
 - (a)Obey the instructions from the manufacturer for the Gaussmeter (MGM50).
 - (b) Make sure that the Gaussmeter operates correctly :
 - the pointer must move when you put the instrument near the shaft of the windshield wiper motors.
 - (c)With the Gaussmeter, find the magnetic zones of the external parts of the frames of the windshield and sliding windows. Record the value for each zone.
 - NOTE : Ignore the magnetization on the shaft of the windshield wiper motors.
- (4)Demagnetize:
 - (a)Obey the instructions from the manufacturer for the demagnetizer (DMO5275A or DMO5275B).
 - (b)Energize the demagnetizer
 - (c)Put the demagnetizer at a very small distance (1 cm approx.) from the part it is necessary to demagnetize. This position gives the reference plane.
 - (d)Push the power supply button (indicator light on) and keep the demagnetizer above the magnetic zone during 2 to 3 seconds. Then move the demagnetizer away slowly at a constant speed and at right angles to the reference plane. You must move the demagnetizer to a minimum distance of 50 cm approx. before you release the button.

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- (e)Do the step (4) again for each zone that you must demagnetize.
- (f)De-energize the demagnetiser.
- (g) For each demagnetized zone, read the value shown on the Gaussmeter.

 Make sure that this value is near zero.
- (h)If you find zones that are not fully demagnetized, do again the step (4) until the value read on the Gaussmeter is near zero.

(5)Close-up

- (a)Install the standby compass (Ref. 34-28-21, P. Block 401).
- (b)Do the compensation adjustment of the standby compass (Ref. 34-28-00, P. Block 501).

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LEVELING AND MEASUREMENT AFTER A/C ABNORMAL OPERATION

1. General

The purpose of this topic is to provide instructions for accomplishment of measuring and alignment checks.

The checks defined in this topic may be required subsequent to hard landings, flights in excessive turbulence or other incidents which may have caused structural deformation.

NOTE 1 : Measuring checks must be performed with aircraft placed in still air and at nearly constant temperature. Record ambient temperature during the checks.

NOTE 2 : Do not carry out checks for at least one hour

- after engine shutdown

- after prolonged exposure of the aircraft to direct sun heat.

Prior to undertaking any of the following checks;

- A. Defuel the aircraft
- B. Place control surfaces in neutral position
- C. Jack up aircraft (Ref. 07-11-00) and level (Ref. 08-22-00)

2. Equipment and Materials

ITEM	DESIGNATION			
A. 98A08001001000	Sighting Rods - Vertical Stabilizer			
B. 98A08003001000	Sighting Rods - Fuselage			
C. 98A08003004000	Sighting Rods - THS			
D. 98A08003005000	Sighting Rods - Wing			
E. 98A08001003000	Tool - Vertical Stabilizer Measurement			
F. 98A08001019000	Plumb Line Tools - Engine Pylon			
G. 98A08001004000	Set - Plumb Bobs			
H. 98A08001005000	Holding Set - Measuring Cord			
J. 98A08001006000	Column - Graduated			
K. 98A08001014000	Adaptor - Plumb Bob Set Wheel Centerline Nose and Main Landing Gear			
L.	Surveyors Tape - 30 m (100 ft.)			
M.	Sight Tubes (2 off)			
	Support for sight tube			
N.	Gunners Quadrant			
0.	Theodolite			
Referenced Procedures				
- 07-11-00, P. Block 1	Jacking for Aircraft Maintenance Operations			
- 08-22-00, P. Block 1	Precise Leveling			

3. Datum

A. Definition of Leveling Axis (Ref. Fig. 001)

- longitudinal axis XX': alignment of points 11 and 16 along the fuselage

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horizontal datum line point 22R. Z = 0

- Vertical axis ZZ': vertical line crossing point 12
- Transverse axis YY': perpendicular to XX' and YY'.
- B. Datum Points

(1) Fuselage datum points

R

(Ref. Fig. 002)

R

C. Measurement Charts
 (1)Table 1

R

(Ref. Fig. 003)

R

(Ref. Fig. 004)

R

- (2)Table 2
 - (Ref. Fig. 005)
 - (Ref. Fig. 006)
- 4. Principles for Z Measurements in Various Aircraft Points-Setting up of Graduated Column
 - Z measurement shall be made using graduated column (Ref. Fig. 001)
 - The column is tripod mounted. It is placed in the alignment of points 11 and 14 and is set in the vertical plane by a level.
 - The column must be placed in front of the nose of the aircraft at a distance of $X = 5 \pm 1$ m (16.5 ft \pm 3.25 ft.).
 - A rack arrangement provides for adjustment of column height to match Z datum of the aircraft.
- 5. Bottom Fuselage Check Point Recording
 - A. Fuselage Center Line Datum (Ref. Fig. 007)
 Set up a theodolite to project to the floor points 11 and 16, and mark accordingly, stretch a cord in alignment of points 11 and 16.
 - B. Y Measurement

Set up a theodolite to project to the floor points 9, 12, 14 and 17. Record L and R variations from cord, see Table 1.

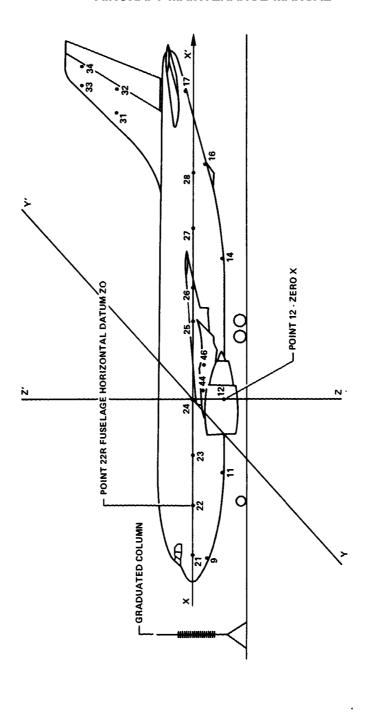
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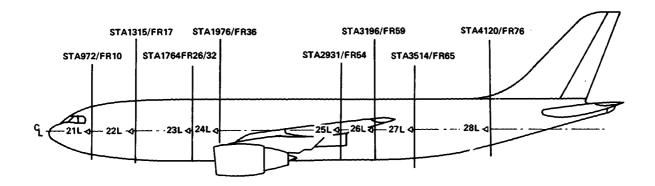
Leveling Axis Figure 001

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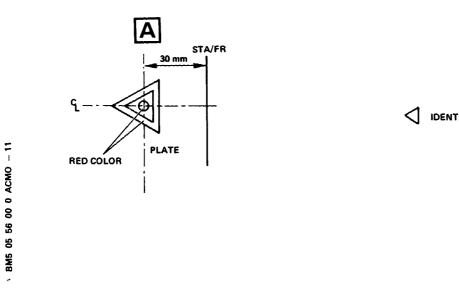
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IDENTICAL WITH

Fuselage Datum Points - Location Figure 002

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TABLE 1 DIMENSIONS IN MM

	POINT	INT X Y	_		VARIATION				
<u> </u>	POINT		Y	Z	ANGLE	×	Υ .	Z	ANGLE
WING	1				/		/		
	2				/	/	/		/
	3		:			/	/		/
	4				/	/	/		/
	5				/	/	/		/
	6					/			/
	9				7	7			
TOM	11					/			/
FUSELAGE BOTTOM	12								
LAG	14				/				
FUSE	16				/				
	17					/			
	21		/		/	/			/
	22		/		/	/			/
FUSELAGE LATERAL	23		/		/	/	/		/ -
E LA1	24						/		/
LAG	25		/ /		/	/	/		/ /
FUSE	26		/		/	/			/
	27		/		/	/	/		
	28		/		/	/	/		/
VERTICAL STABILIZER	31								
	32								
	33								
	34					/			

R

Table 1 (Dimensions in Millimeters)
Figure 003

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TABLE 1 DIMENSIONS IN IN.

	POINT	×	Y	z	ANGLE		VARI	ATION	
	, 0			_	,	х	Υ	z	ANGLE
	1								. /
	2			!	/				/
WING	3				/		/ /		/
₹	4				/				/
] ,	5				/				/
	6						/		/
	9				/				
TOM	11								/
ВОТ	12				/				/
LAGE	14				/	/			/
FUSELAGE BOTTOM	16				/	/ /			/
	17								/
	21					/	/		/
ŀ.,	22				/	/	/ /		/
ERAI	23		/			/	/		/
LAT	24		/		/	/	/		/ /
FUSELAGE LATERAL	25		/		/	/	/		/
FUSE	26		/		/	/ /	/		/
	27					/	/		/
	28		/		/				
~	31								
ICAL	32								
VERTICAL STABILIZER	33								/
	34								/

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Table 1 (Dimensions in Inches) Figure 004

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TABLE 2 DIMENSIONS IN MM

		~	Υ	Z	ANGLE		VARI	ATION	
	POINT	X	¥	2	(deg.)	×	Y	z	ANGLE
THS	35 36 37 38								
ENGINE PYLON	43 44 45 46				1°				
NOSE	A				α N 90° β N 90°				
MAIN	F				α M 91°35′ β M 86°38′	1			

	POINT	DISTANCE	VARIATION
SELAGE	6 TO 11		
WING/FUSELAGE	6 TO 16		
THS/FUEL	16 TO 37		

	WINGS POINTS	ANGLE to 11 (IN GRAD)	VARIATION	WINGS POINTS	ANGLE to 14 (IN GRAD)	VARIATION
	1			1		
AGE	2			2		
SEL.	3			3		
WING/FUSELAGE	4			4		
N X	5			5		
	6			6		
	POINT LH	ANGLE to 14 (IN GRAD)	VARIATION	POINT RH	ANGLE to 16 (IN GRAD)	VARIATION
1	35			35		
FUEL	36			36		
THS	37			37		
F	38			38		

Table 2 (Dimensions in Millimeters)
Figure 005

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TABLE 2 DIMENSIONS IN IN.

	POINT	x	Υ	z	ANGLE (deg.)		VARI	ATION	
	POINT	^		2	(deg.)	х	Y	Z	ANGLE
THS	35 36 37 38								
ENGINE PYLON	43 44 45 46				1°				
NOSE	A				α N 90° β N 90°				
MAIN LG	F				α M 91°35′ β M 86°38′ S			/.	

	POINT	DISTANCE	VARIATION
WING/FUSELAGE	6 TO 11		
L	6 TO 16		
T H S/ FUEL	16 TO 37		

	WINGS POINTS	ANGLE to 11 (IN GRAD)	VARIATION	WINGS POINTS	ANGLE to 14 (IN GRAD)	VARIATION
w w	1			1		
LAG	2			2		
WING/FUSELAGE	3			3		
1/91	4			4		
Ž	5			5		
	6			6		
	POINT LH	ANGLE to 14 (IN GRAD)	VARIATION	POINT	ANGLE to 16 (IN GRAD)	VARIATION
	35			35		P
FUEL	36			36		
THS	37			37		
	38			38		<u> </u>

Table 2 (Dimensions in Inches) Figure 006

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C. Z Measurement

Adjust sight tube at $Z=-4500\,\text{mm}$ (- 177.16 in.) from fuselage horizontal datum. Record variations between readings on rods at points 9, 11, 12, 14, 16, 17 and sight tube scanning plane. Refer to Table 1.

D. X Measurement

Record X position of bottom fuselage points with respect to point 12. Refer to Table 1.

6. Twist Check (Ref. Fig. 008)

Record height of the points of fuselage horizontal datum using the two sight tubes placed on either side of the fuselage. Z variations of the fuselage horizontal datum points indicate fuselage twist. Refer to Table 1.

7. Wing Point Recording

A. Z Recordings

Set up sighting rods at points 1, 2, 3, 4, 5, 6 L and R : set up 1 sight tube as shown on relevant figure (Ref. Fig. 007)

Adjust sight tube to Z = -4500 mm (- 177.16 in.) from fuselage horizontal datum.

Record variations between readings on sighting rods at points 1 to 6 L and R, and sight tube scanning plane. Refer to Table 1.

B. Measurement of distance between points 6L/6R and points 11/16 (Ref. Fig. 009)

Project to the floor points 11 and 16, 6L and 6R. Measure distance between points 6L/6R and points 11/16. Refer to Table 2.

C. Angle Recording (Ref. Fig. 010)

Project to the floor points 11 and 14 and set up theodolites on these points.

Record angles of points 1 to 6 with respect to aircraft centerline :

- from point 14 for right wing.
- from point 11 for left wing.

Refer to Table 1.

8. Horizontal Stabilizer Point Recording

A. Z Recordings

Set up sighting rods at points 35, 36, 37, 38 L and R. Adjust sight tube to a plane passing through Z = -4500 mm (-177.16 in) from fuselage horizontal datum, as shown in figure (Ref. Fig. 007). Record variation between datum readings on rods and sight tube scanning plane. Refer to Table 2. NOTE: Make certain that stabilizer is in neutral position.

B. Distance Measurement between Points 16 and 37 L,37 R (Ref. Fig. 009) Project to the floor points 16 and 37, L and R sides. Measure distance between points 16 and 37, L side, and points 16 and 37 R side. Refer to Table 2.

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C. Angle Recording (Ref. Fig. 010)

Project to the floor points 14 and 16 and set up theodolites on these points. Record angles of points 35, 36, 37, 38 with respect to aircraft centerline :

- from point 16 for right stabilizer
- 9. Vertical Stabilizer Check (Ref. Fig. 011)
 - A. Verticality Check

Set up sighting rods at points 31, 32, 33 and 34, R side. Set up a theodolite at 564 mm (22.31 in.) from aircraft centerline, R side. Record variation of sighting rod datum mark from theodolite scanning angle.

Refer to Table 1.

B. X Position Recording of Point 33 L Install vertical stabilizer measurement tool at points 33 L and 34 L and level it using adjusting screw. Suspend a plumb bob line at the tool extremity. Measure distance between plumb bob point projected on to X axis and point 12. Substract tool length (3115.87 mm) from this value.

The X actual value of point 33 L is thus obtained. Refer to Table 1.

10.Recording Engine Pylon Alignment (Ref. Fig. 012)

Install engine pylon plumb line tool No.98A08001019. This tool is used for symmetrical transfer of point 44T aft of point 46 T (point 44TS). Tool points 46T and 44TS are projected to the floor by means of plumb bob lines.

A. X Position of Pylon Points 44 and 46

Record X dimensions of tool points 46T and 44TS with respect to point 12. X dimensions of pylon points 44 and 46 are obtained by substracting the tool values, hence:

X 46 = X 46T - 25.48

X 44 = X 44TS - 4116

Refer to Table 2.

B. Y Position of Pylon Points 44 and 46

Record Y dimensions of tool points 46T and 44TS with respect to the cord stretched on the ground and symbolizing the aircraft longitudinal axis.

Y 44T (tool) is obtained with the relation

Y 44T = Y 46T - (Y 44TS - Y 46T) = 2 Y 46T - Y 44TS

Y dimensions of pylon points 44 and 46 are obtained by substracting tool values from values Y 44T and Y 46T, hence :

Y 44 = Y 44T - 200 and Y 46 = Y 46T - 264.6

Refer to Table 2.

C. Calculation of Pylon Angle

Pylon angle is obtained by the formula:

tg alpha =
$$\frac{Ya - Yb}{(X \ 46 - X \ 44)}$$
 with

Y A = Y 44 - y A ; Y B = Y 46 - y B

y A and y B are the theoretical distances of points 44 and 46 to the pylon

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centerline. They have the following values: y A = 203.2 mm (7.99 in.) y B = 102.6 mm (4.04 in.)Refer to Table 2.

D. Z Recording of Pylon Points 44 and 46 (Ref. Fig. 008) Using sight tube set at Z = -1540 mm (- 60.63 in.) from fuselage horizontal datum, record height of points 44 and 46 and refer to Table 2.

11.Landing Gear Alignment (Ref. Fig. 013, 014)

A. Nose Landing Gear

Project nose wheel jacking point on the floor.

(1)X alignment

- Record X position of jacking point with respect to point 12 (let X p be this distance).
- Calculate the position of landing gear wheel axis with the formula : X A = X p - 95. Refer to Table 2.

(2)Y alignment

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- Measure Y position of landing gear jacking point with respect to aircraft centerline (alignment of points 11 and 16 on the floor).
- The deviation sign will be positive if jacking point is offset right and negative if offset left. Refet to Table 2.
- (3) Verticality of shock strut axis

Record angle Alpha (L side) in a plane perpendicular to aircraft longitudinal axis, also record angle Beta in a vertical plane passing through the aircraft longitudinal axis using a gunners quadrant. Refer to Table 2.

B. Main Landing Gears

For each landing gear, project gear wheel jacking points on the floor (points D'1 and D'2).

(1)X position of shock strut axis

Record X positions of jacking points with respect to point 12. X position of shock strut axis is given by the formula:

X F = (X D'1 + X D'2)/2. Refer to Table 2.

(2)Y position of shock strut axis

Record Y positions of jacking points with respect to aircraft centerline (alignment of points 11 and 16 on the floor). Y position of shock strut axis is given by the formula:

Y F = (Y D'1 + Y D'2)/2. Refer to Table 2.

(3)Landing gear shock strut angle

Record angle Alpha (in a plane perpendicular to aircraft longitudinal axis), also record angle Beta (in a vertical plane passing through aircraft longitudinal axis) using a gunners quadrant.

12. Measurement Utilization

The values in tables 1 and 2 are measurements recorded on the first three aircraft at zero flight hours. They can be used as a guide in appraising the structural and aerodynamic condition of an aircraft after major repairs or after an aircraft has been subjected to maneuvers requiring an alignment

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check.

Deviations from given values do not automatically mean that the aircraft is not serviceable. These deviations must be appraised from the structural and aerodynamic points of view in order to determine their effects on flight safety.

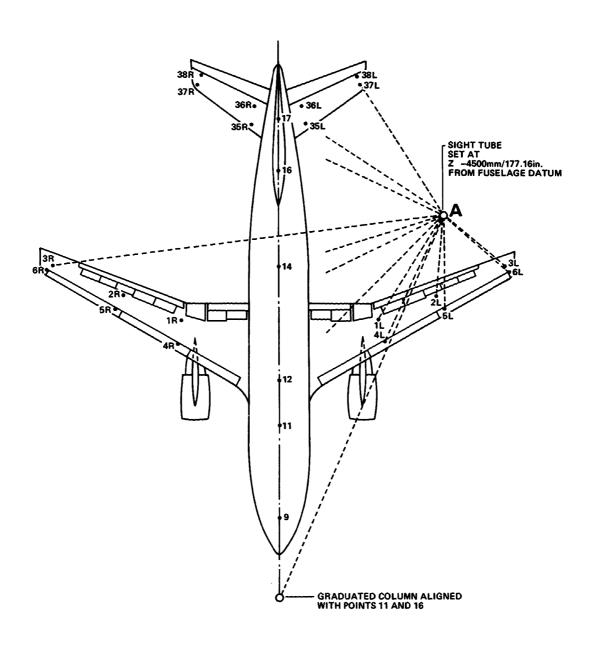
In the event of important deviations, visually check for presence of the following failures:

- A. Localized Structural Failures such as :
 - buckled or cracked skins, stiffeners, machined parts. Peeled off paint.
 - tore or torn fasteners.
- B. Structural Failures Resulting in :
 - fuel leaks in tank areas
 - air leaks in pressurized areas
 - interference of moving parts of a mechanism
 - leaks in air conditionning, hydraulic or fuel systems
 - short circuits
 - refusal to closure of doors and access panels due to surrounding structure distortion
 - required excessive control surface trim limiting control range.

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Z Check of THS, Fuselage and Wing Points Figure 007

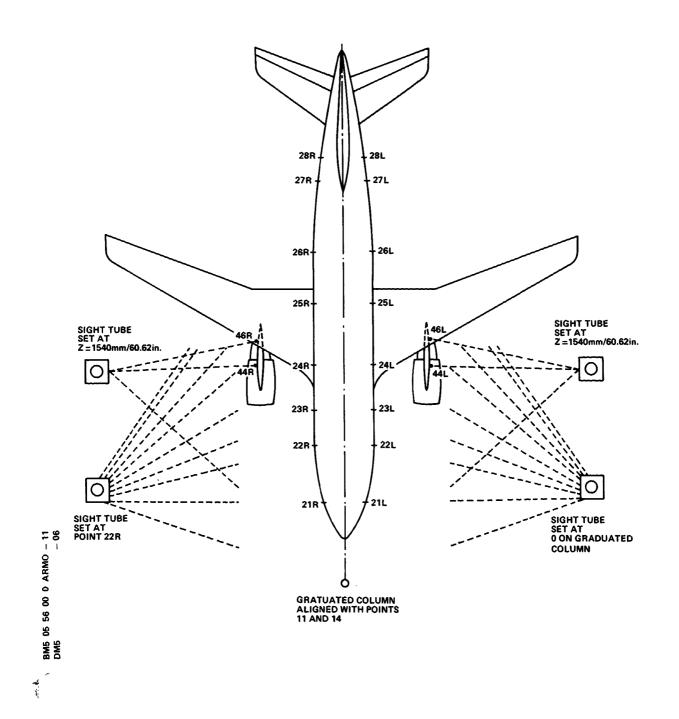
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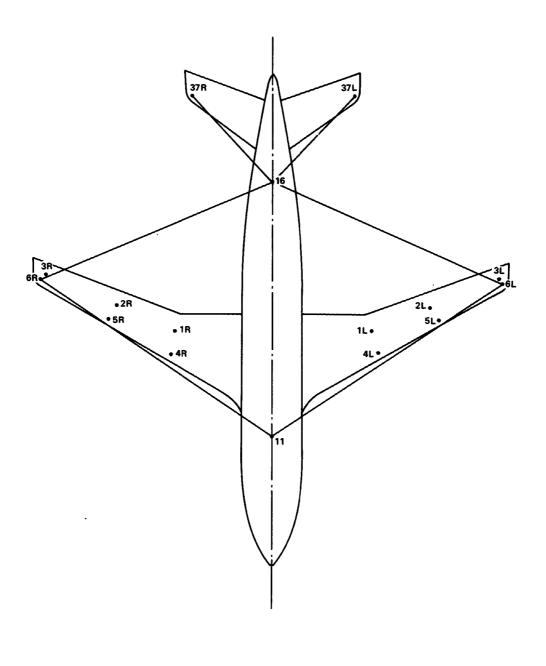
Z Recording of Fuselage Horizontal Datum Points and Engine Pylon
Points
Figure 008

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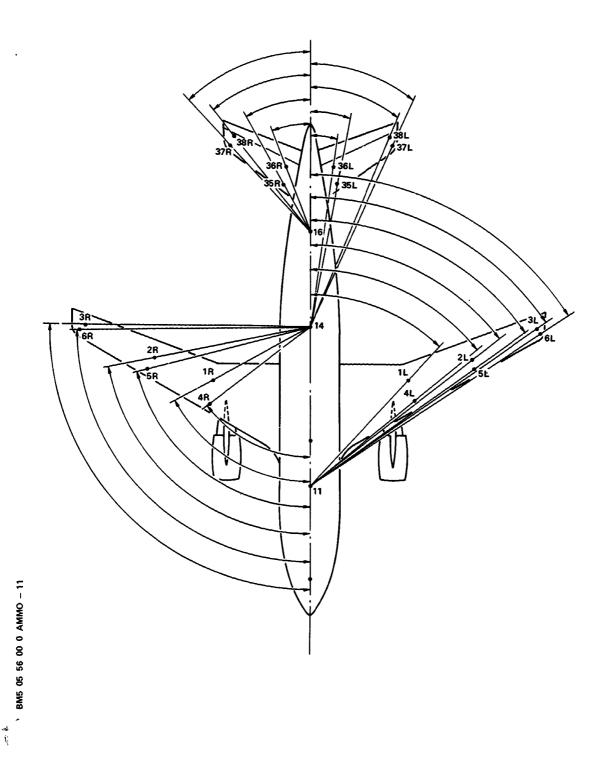
Triangulation of Wing Points 6L/6R and THS Points 37L/37R Figure 009

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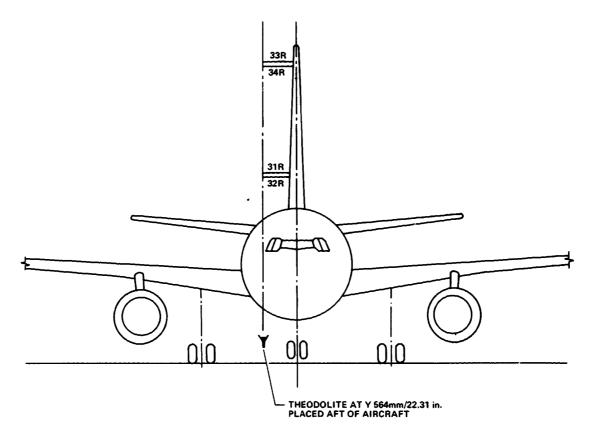
Angle Recording of Wing and THS Points Figure 010

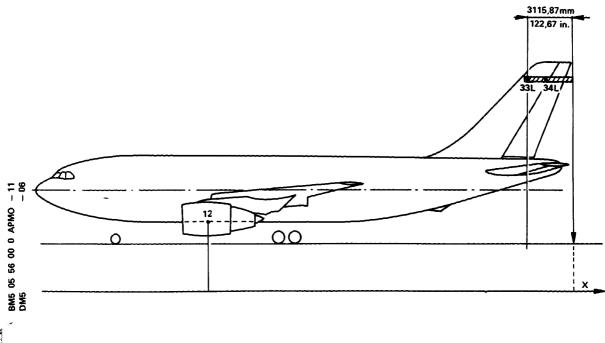
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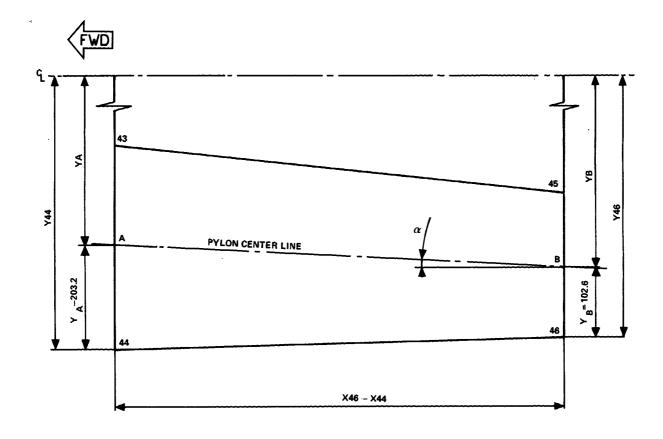
Vertical Stabilizer Check Figure 011

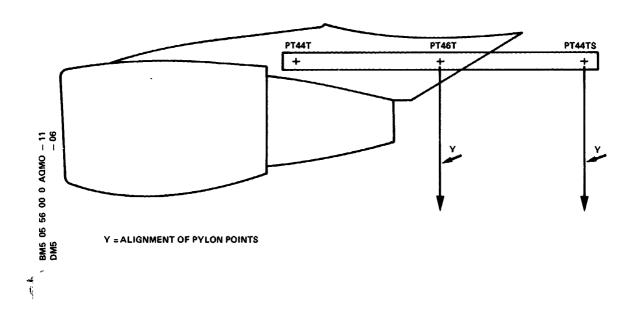
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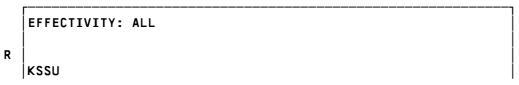
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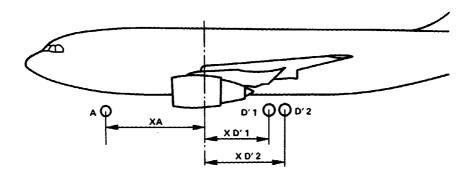
Recording of Engine Pylon Alignment Figure 012

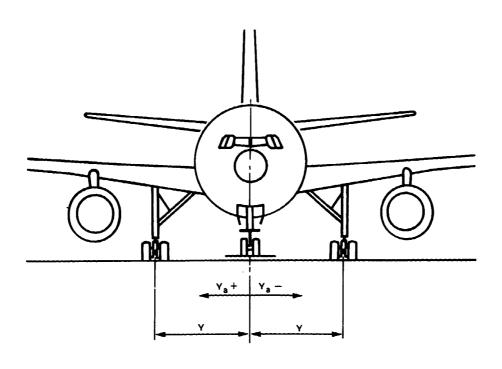


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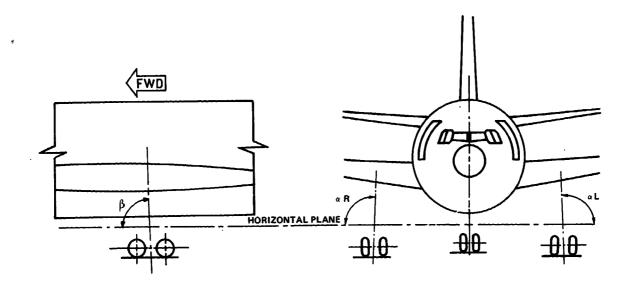
Landing Gear Alignment Figure 013

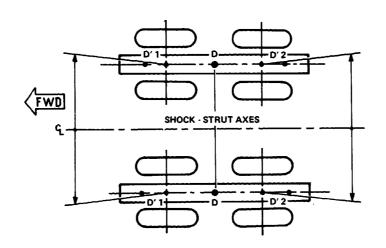
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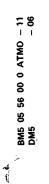
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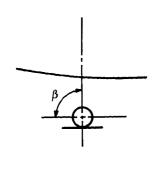
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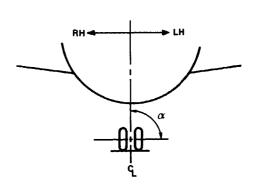
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Landing Gear Alignment Figure 014

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LEVELING AND MEASUREMENT AFTER AIRCRAFT ABNORMAL OPERATION INSPECTION/CHECK

1. Reason for the Job

To prepare the aircraft for measurement with the photogrammetry method,

laser theodolite method or other methods.

NOTE: Please contact AIRBUS for analysis of the measurement values.

2. Equipment and Materials

ITEM	DESIGNATION			
Α.	Safety Barriers			
В.	Warning Notices			
C.	Wheel Chocks			
D.	Adjustable Access Platform			
E. 98F05003000002	TARGET - MEASUREMENT			
Referenced Procedures				
- 08-12-00, P. Block 1	Weighing			
- 28-25-00, P. Block 301	Refuel/Defuel System			
- 32-12-11, P. Block 301	Main Gear Main Door			
- 32-22-11, P. Block 301	Nose Gear Main Door			

3. Job Set-up

- A. Towing of the Aircraft to the Work Area
 - (1)Tow the aircraft to a place where there is no air movement and a constant temperature, or into a hangar.

NOTE: Tow the aircraft in a straight line over 10 meters to prevent any lateral stress on the landing gears.

- **B.** Safety Precautions
 - (1)Put safety barriers in position around the aircraft.
 - (2) Install the safety devices on the landing gears.
 - (3) Put an adjustable access platform in position near the aircraft.
 - (4) Put wheel chocks in position at the main landing gear.
- C. Aircraft Maintenance Configuration

 - (1)Close the MLG doors (Ref. 32-12-11, P. Block 301). (2)Close the NLG doors (Ref. 32-22-11, P. Block 301).
 - (3) Fully defuel the aircraft (Ref. 28-25-00, P. Block 301).
 - (4) Make sure that:
 - flight control surfaces are in the neutral position,
 - all doors and panels are closed.
 - (5) Weigh the aircraft, if necessary (Ref. 08-12-00, P. Block 1).
- D. Safety Precautions
 - (1) Make sure that the area around the aircraft is clear.
 - (2) Put warning notices on the passenger/crew doors to prevent access into the aircraft while you measure the aircraft.

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R 4. Procedure

- R A. Installation of the Targets on the Aircraft
 - (1)Use TARGET MEASUREMENT (98F05003000002) to install the targets.
 - (2)Installation of the targets on the wing.

(Ref. Fig. 601)

- (a)Install 6 targets on the lower surface of each wing. Put them on indexed tools installed in the measurement receptacles (points 1R to 6R and 1L to 6L).
- (3)Installation of the targets on the fuselage.

(Ref. Fig. 602)

- (a)Install 8 targets on each side of the fuselage at the leveling points (red triangles) (points 21R to 28R and 21L to 28L).
- (b)Install 6 targets below the fuselage on the centerline. Put them on indexed tools installed in the measurement receptacles (points 9, 11, 12, 14, 16 and 17) (point 17 is the safety point).
- (4)Installation of the targets on the THS and on the vertical stabilizer. (Ref. Fig. 603)
 - (a)Install 4 targets on the lower surface on each side of the THS. Put them on indexed tools installed in the measurement receptacles (remove cover cap) (points 35L to 38L and 35R to 38R).
 - (b)Install 4 targets on the left side of the vertical stabilizer (points 31L to 34L).
- (5)Installation of the targets on the pylons and engines. (Ref. Fig. 604)
 - (a)Install 2 targets on each side of the pylons (points 43L to 46L and 43R to 46R).

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5. Close-up

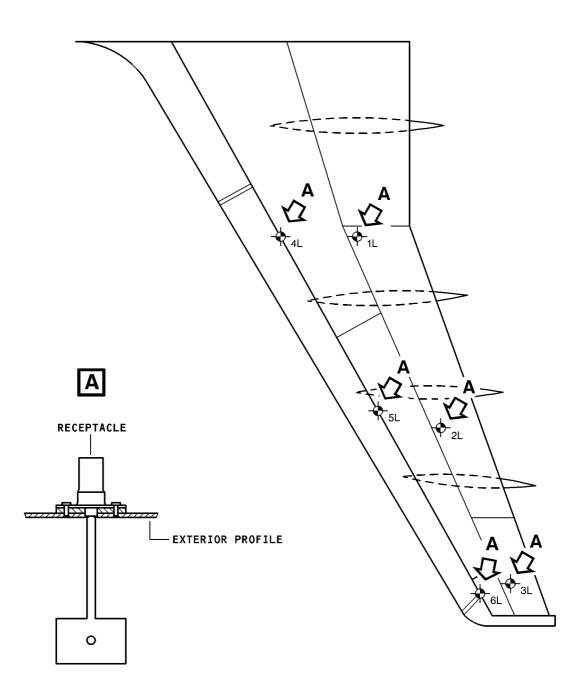
- A. Removal of the Targets
 - (1)Remove all the targets and indexed tools that you have installed.
- B. Put the Aircraft back to its Initial Configuration
 - (1) Remove the safety devices installed on the landing gears.
 - (2) Remove the access platform(s).
 - (3) Remove the wheel chocks from the main landing gear.
 - (4) Remove the ground support and maintenance equipment, the special and standard tools and all other items.

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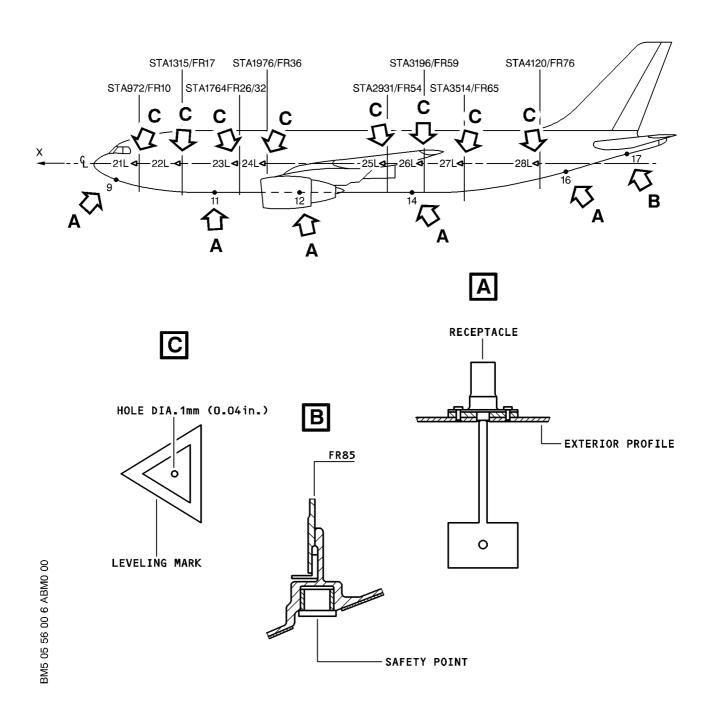
Location of the Measurement Points on the Wing Figure 601

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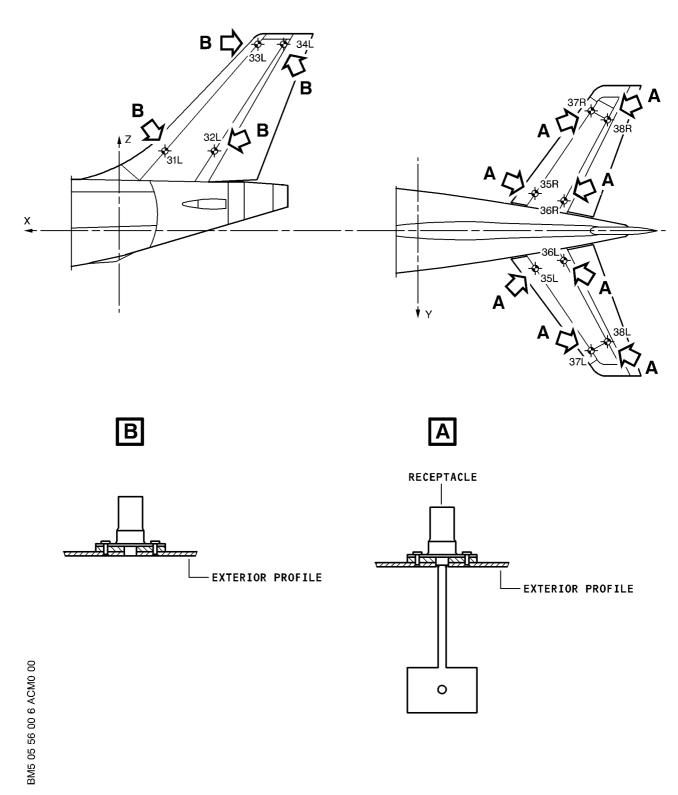
Location of the Measurement Points on the Fuselage Figure 602

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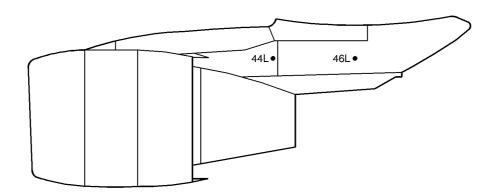
Location of the Measurement Points on the Vertical Stabilizer and THS
Figure 603

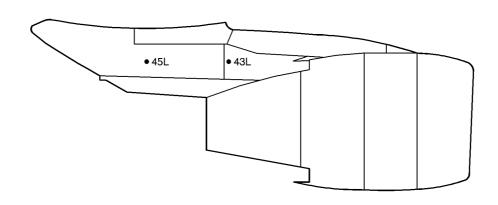
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Location of the Measurement Points on the Engine Pylons Figure 604

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AIRCRAFT STABILITY

1. General

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The method described below enables the stability of the aircraft to be checked graphically and the ballast required to ensure stability under unfavorable conditions to be determined; for the following configurations:

- A/C equipped with 2 engines
- 1 or both engines removed
- engine re-installation

NOTE : The stability graphs for aircraft on wheels (on dry or wet ground) given in this procedure are applicable to a parked or towed aircraft.

CAUTION: MAKE SURE THAT:

- THE FLAPS, THE SLATS, THE SPOILERS, THE SPEED BRAKES AND THE THRUST REVERSERS ARE RETRACTED,
- THE THS IS SET TO NEUTRAL,

IF AIRCRAFT IS NOT IN A CLOSED HANGAR.

CAUTION: MAKE CERTAIN THAT TRIM TANK IS EMPTY BEFORE REMOVAL OF ENGINE 1 OR 2.

If required, ballast weight will be installed:

- at cabin door No. 1
- at forward cargo compartment.
- at fuselage FR17/STA1315

It will also be possible in a certain limit to restore balance by transferring fuel from outer tanks to the center tank.

- NOTE 1 : Before installing ballast weight, check that following limitations are respected :
 - maximum weight at cabin door No. 1 is 900 kg (1984 lbs) evenly distributed over the whole breadth of the aircraft per meter width. This weight to be applied to the seat rails and not via the floor panels.
 - maximum weight at pallet 11P is 4626 kg (10200 lbs). This weight must be applied to the structure through the normal pallet attachments.
 - the maximum load that can be admitted by the aircraft structure at each fitting at FR17 is 5.5 tonnes (12125.45 lbs).

 $\underline{\text{NOTE 2}}$: - Load on nose gear must not be less than 2 tonnes (4409.24 lbs). This method is applicable to three configuration cases, using corresponding diagram for each case :

- A. Diagram for aircraft on wheels, on dry ground. (Ref. Fig. 001)
- B. Diagram for aircraft on wheels, on wet ground
 (Ref. Fig. 002)

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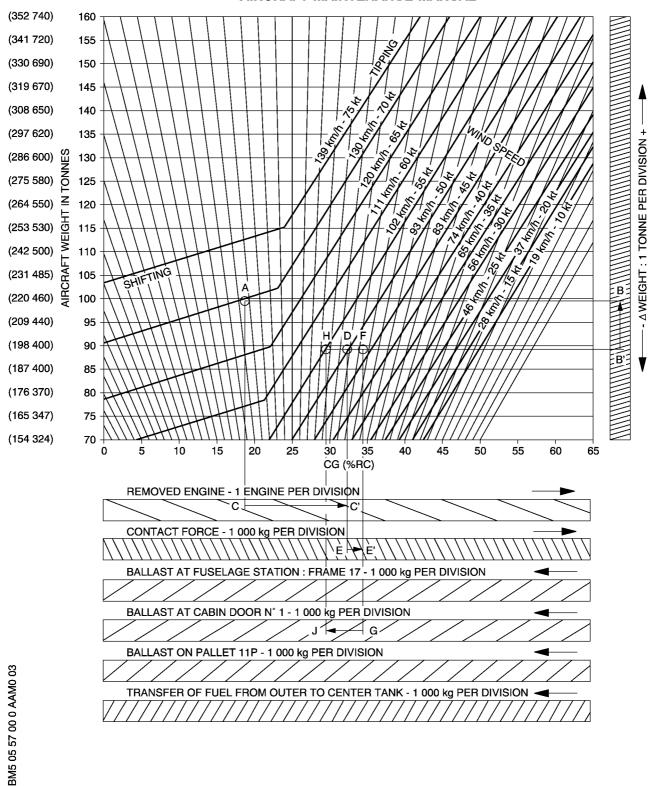
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Aircraft on Wheels, on Dry Ground (Applicable to a Parked or Towed Aircraft)
Figure 001

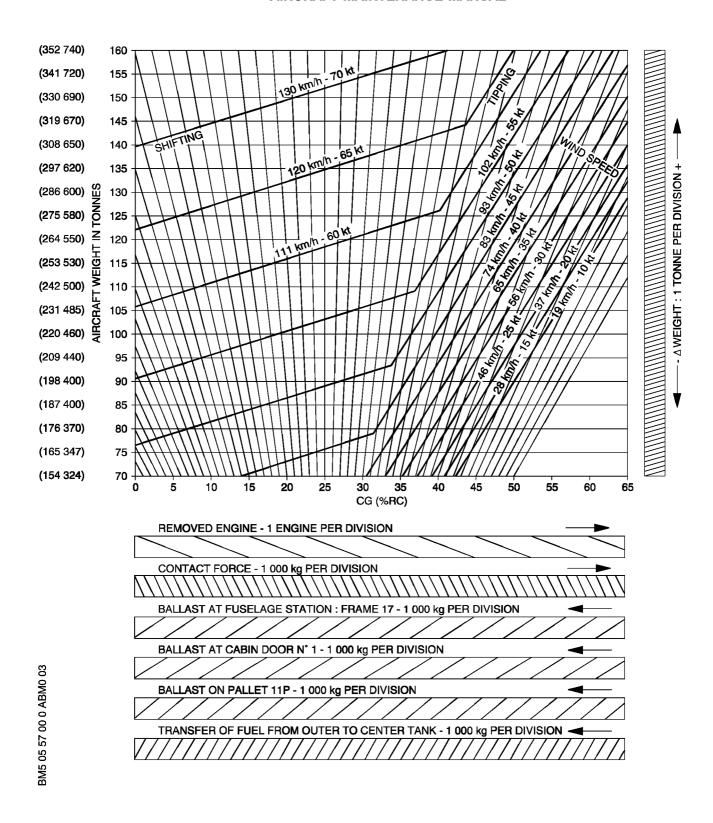
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Aircraft on Wheels, on Wet Ground (Applicable to a Parked or Towed Aircraft) Figure 002

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- C. Diagram for aircraft on jacks (Ref. Fig. 003)
- D. Diagram for Aircraft on Forward Jack or on Nose Wheel Jack (Ref. Fig. 004)
- E. Diagram for Aircraft on One Main Gear Wheel Jack (Ref. Fig. 005)
- F. Diagram for Aircraft Jacked at Main and Nose Gears for Wheel Change (Ref. Fig. 006)
- 2. Installation of Fittings (Ref. Fig. 007) NOTE: These fittings are installed if a ballast weight is required at FR17.
- A. Equipment and Materials

______ DESIGNATION

ITEM

(1)98A07003903001

FR17 Lifting/Mooring Fitting

- B. Procedure
 - (1) Remove blanking screws (1).
 - (2)Install fittings (2) 98A07003903001 (98A07003903100-LH and 98A07003903101-RH) on Frame 17 with bolts (3).
- 3. Example of Utilization

As the use of diagrams to determine aircraft stability is based on the same procedure, the diagram related to aircraft on wheels on dry ground is taken as an example and not as a recommendation. (Ref. Fig. 001)

A. Check of stability: aircraft with two engines.

Aircraft configuration:

- without crew
- without galley
- without pallets and containers
- 5.8 tonnes (12786.80 lbs) fuel in outer tanks
 - (a) For instance, for a weight of 99.5 tonnes (219358 lbs) and a 21 % CG, plot this pair of values to point A on the chart.

NOTE: It should be noted that under these conditions, the aircraft will safely withstand a 65 kts (120 km/h) wind.

- B. Check of aircraft stability after removal of both engines.
 - (1)From point A, plot a horizontal line to intersect the Δ weight so as to obtain point B.
 - (2) From this point, plot the weight of the two removed engines, 11.5 tonnes (25353 lbs) approx., in the direction of arrow, to obtain point B'.
 - (3) From point A, plot a vertical line to intersect with one division of the "removed engine" scale, and obtain point C.
 - (4)Plot a line along two divisions on this scale (1 division per engine)

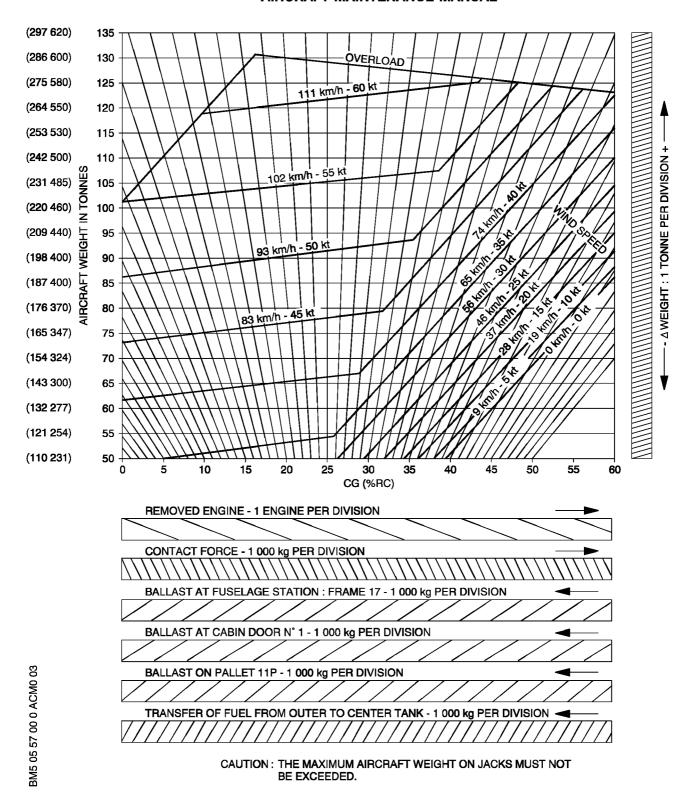
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Aircraft on Jacks Figure 003

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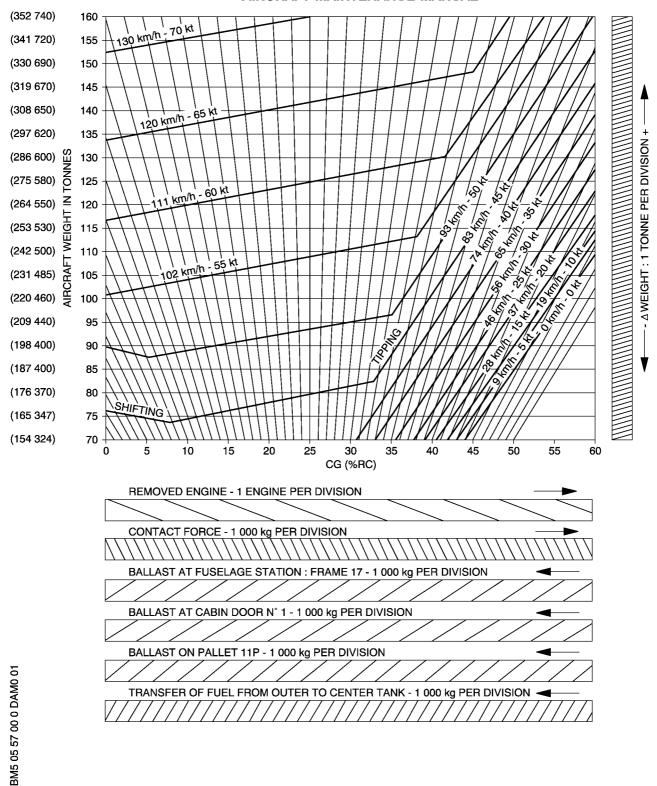
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Aircraft on Forward Jack or on Nose Wheel Jack Figure 004

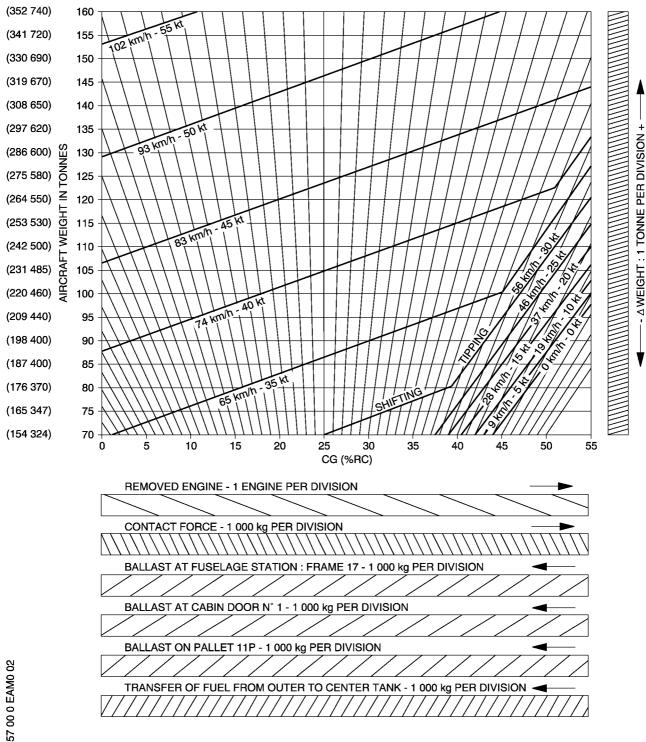
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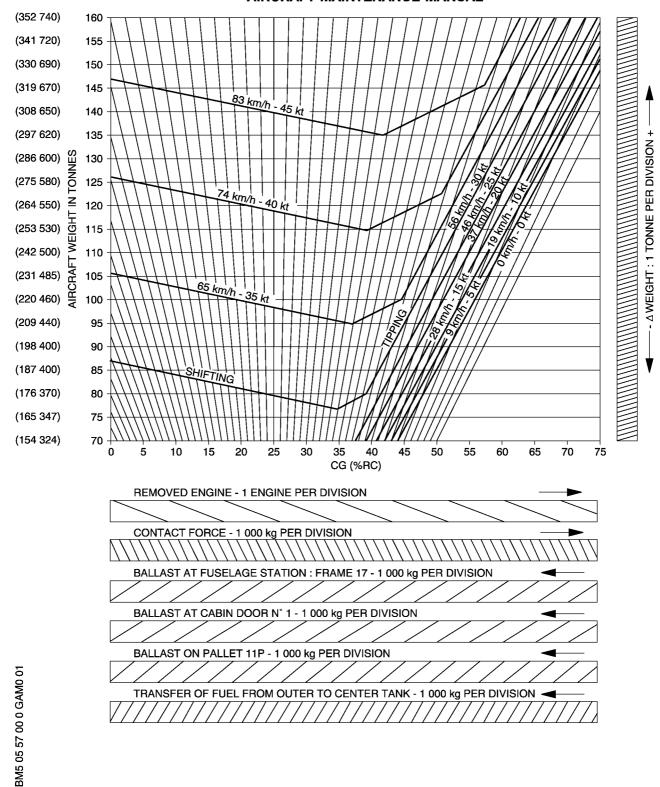
Aircraft on One Main Gear Wheel Jack Figure 005

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Aircraft Jacked at Main and Nose Gears for Wheel Change Figure 006

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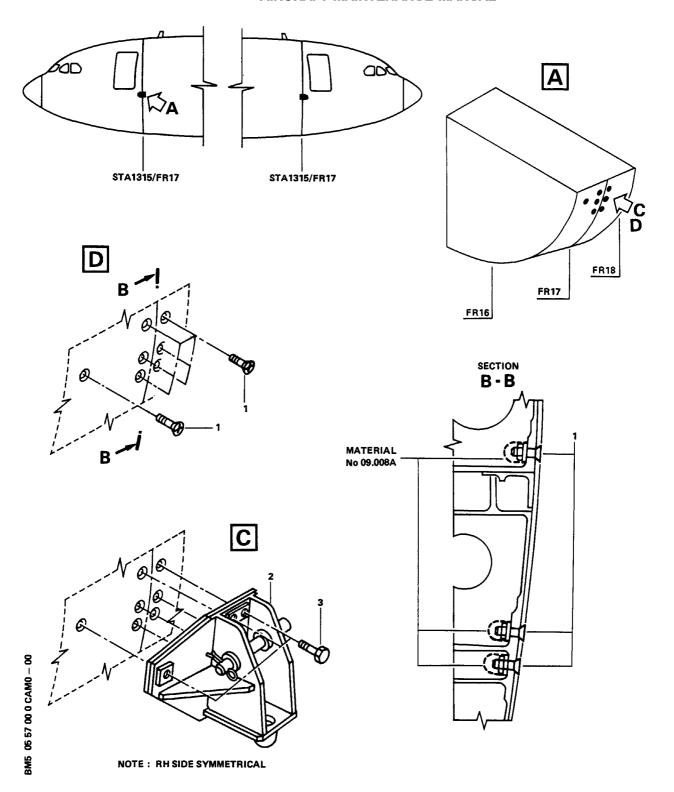
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Lifting/Mooring Fitting - Installation Figure 007

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to obtain point C'.

(5) From point C', plot a vertical line and from point B' plot a horizontal line, to obtain point D.

By reading the diagram, we obtain

- 88 tonnes (194005 lbs) aircraft weight
- 30.1 % CG
- 50 kts (93 km/h) permissible wind.
- C. Check of aircraft stability during installation of engine with hydraulic lift.

By way of example, it is considered that a contact force of 1 tonne (1764 lbs) is imparted to the pylon by the hydraulic lift.

- (1)Continue vertical line DC' until it intersects the "contact force" scale, to obtain point E.
- (2) From this point, plot a line along two divisions (1 tonne per division) to obtain point E'.
- (3) From this point, plot a vertical line to intersect horizontal line DB' to obtain point F. Check of diagram shows that under these conditions engine installation can take place in the open air until wind speed peak is ≤ 45 kts (83 km/h).
- D. Calculation to determine amount of ballast required for engine installation.

It is considered that engine installation takes place in the open air, with peak windspeed of 55 kts (102 km/h), eventual ballast shall be installed in the forward cargo compartment at position 11P.

- (1)Continue line B'F up to average windspeed of 55 kts (102 km/h) at point H.
- (2)Continue vertical line FE' until it intersects "ballast on section 11P" scale at point G.
- (3) From point G, horizontally plot a line which intersects vertical line from H at point J.
- (4)Count the number of divisions on the scale between point G and J i.e 1.8 divisions.

Therefore 1.8 tonnes (3968 lbs) of ballast will be necessary. In the same way, the amount of ballast required at cabin door No. 1 would be 1.3 tonnes (2866 lbs).

Based on this assumption, (with 5.8 tonnes (12786 lbs) of fuel in wing outer tanks), it would be sufficient to transfer 4 tonnes (8818.49 lbs) of fuel into the fuselage center tank.

NOTE: For simplification and in view of the fact that it would involve a slight increase in the amount of ballast, the effect of ballast weight on aircraft has not been taken into account.

4. Close-Up

A. Equipment and Materials

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ITEM DESIGNATION

 (1)Material No. 05-002
 Special Materials (Ref. 20-31-00)

 (2)Material No. 09-008A
 Sealants (Ref. 20-31-00)

- B. Removal of Fittings (Ref. Fig. 007)
 (1)Remove bolts (3), remove fittings (2) 98A07003903001 (98A07003903100-LH
 and 98A07003903101-RH).
 - (2) Swear threads of blanking screws (1) with material No. 05-002 and install blanking screws (1) on frame 17.
 - (3) Swear again threads of blanking plugs (1) on the inner side of the aircraft with material No. 09-008A.

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AIRCRAFT STABILITY WITH FUEL IN TRIM TANK

1. General

The method described below permits:

- to graphically check, for a given weight and CG, the aircraft stability in view of a maintenance operation requiring total or partial filling of trim tank
- to determine the ballast required when stability is no longer ensured. CAUTION: MAKE SURE THAT:
 - THE FLAPS, THE SLATS, THE SPOILERS, THE SPEED BRAKES AND THE THRUST REVERSERS ARE RETRACTED.
 - THE THS IS SET TO NEUTRAL,

IF AIRCRAFT IS NOT IN A CLOSED HANGAR.

If required, ballast weight will be installed:

- at cabin door No. 1
- at forward cargo compartment
- at fuselage FR17/STA1315.

It will also be possible in a certain limit to restore balance by transferring fuel from outer tanks to the center tank.

- NOTE 1 : Before installing ballast weight, check that following limitations are respected :
 - maximum weight at cabin door No. 1 is 900 kg (1984 lbs) evenly distributed over the whole breadth of the aircraft per meter width. This weight to be applied to the seat rails and not via the floor panels.
 - maximum weight at pallet 11P is 4626 kg (10200 lbs). This weight must be applied to the structure through the normal pallet attachments.
 - the maximum load that can be admitted by the aircraft structure at each fitting at FR17 is 5.5 tonnes (12125.45 lbs).

 $\underline{\text{NOTE 2}}$: Load on nose gear must not be less than 2 tonnes (4409.24 lbs) This method is applicable to three configuration cases, using corresponding diagram for each case :

- The present weight and CG has to be obtained from the airlines operation department
 - A. Diagram for Aircraft on Wheels, on Dry Ground (Ref. Fig. 001)
 - B. Diagram for Aircraft on Wheels, on Wet Ground (Ref. Fig. 002)
 - C. Diagram For Aircraft on Jacks
 (Ref. Fig. 003)

R 2. Example of Utilization

As the use of diagrams to determine aircraft stability is based on the same procedure, the diagram related to aircraft on wheels on dry ground is taken as an example and not as a recommendation.

(Ref. Fig. 001)

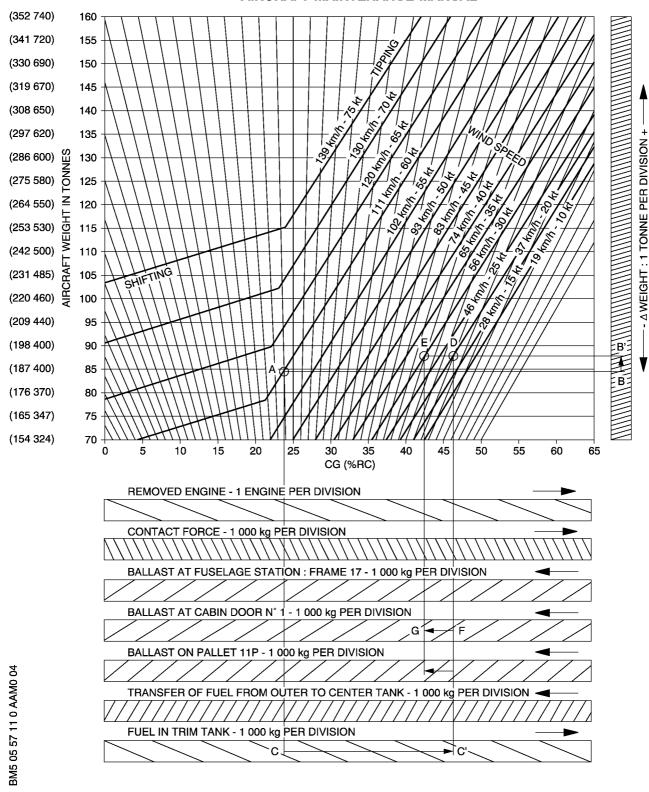
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Aircraft on Wheels, on Dry Ground Figure 001

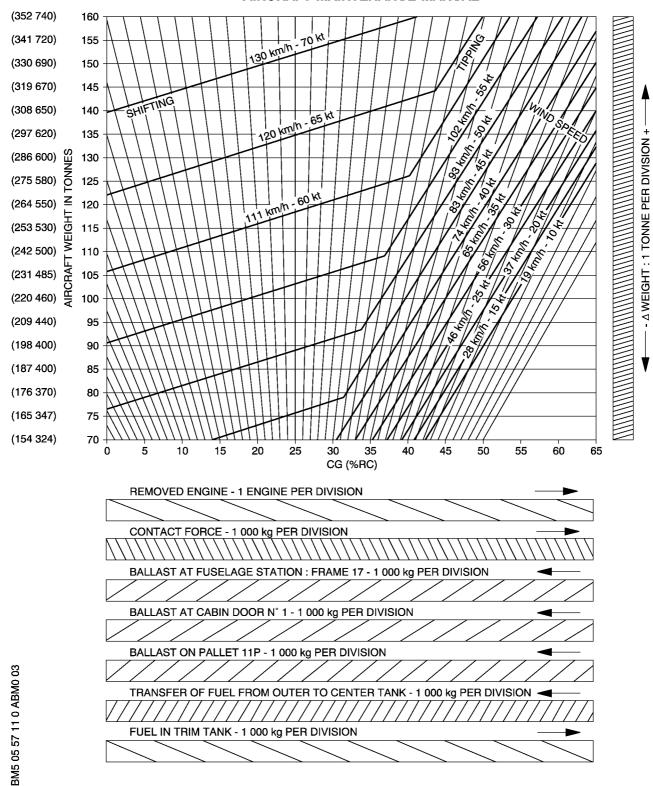
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Aircraft on Wheels, on Wet Ground Figure 002

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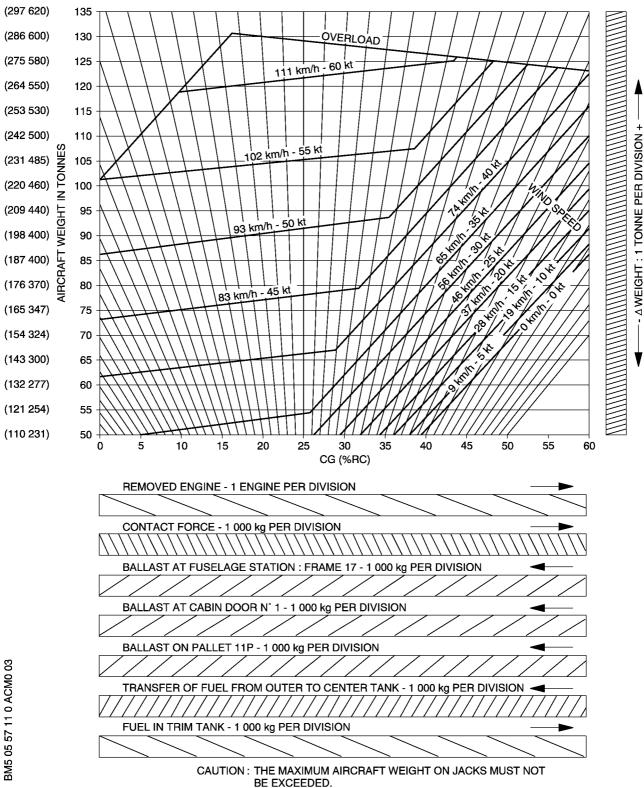
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Aircraft on Jacks Figure 003

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A. Check of Aircraft Stability with two engines R (1) For instance, for a weight of 84 tonnes (185186.4 lbs) and 24%CG, plot this pair of values on chart to obtain point A. R NOTE: It should be noted that under these conditions, the aircraft will safely withstand a 55 Kts (102 km/h) wind. B. Check of Aircraft Stability with 4 Tonnes of Fuel in Trim Tank (1) From point A, plot a horizontal line to intersect the delta weight so as to obtain point B. (2) From this point, plot the weight of fuel in trim tank, 4 tonnes (8818 lbs) approx, in the direction of arrow, to obtain point B'. (3) From point A, plot a vertical line to intersect with one division of the "fuel in trim tank" scale, and obtain point C. (4)On this scale, and in the direction of arrow, plot the weight of fuel in trim tank (1 tonne per division) to obtain point C'. (5) From point C' plot a vertical line and from point B' plot a horizontal line to obtain point D. By reading the diagram, we obtain: - 40.7 % CG - 20 kts (37 km/h) permissible wind. C. Calculation to Determine Amount of Ballast The aircraft is in the open air, with peak windspeed of 35 kts (65 km/h).(1)Continue line B'D up to average windspeed of 35 kts (65 km/h) at point (2)Continue vertical line DC' until it intersects "ballast at cabin door No. 1" scale at point F. (3) From point F, horizontally plot at line which intersects vertical line from E at point G. (4)Count the number of divisions on the scale between point F and G. (5) Therefore 1.3 tonnes (2866 lbs) of ballast will be necessary. In the same way, the amount of ballast required on pallet 11P would be 1.7 tonnes (3748 lbs). NOTE: For simplification and in view of the fact that it would involve a slight increase in the amount of ballast, the effect of ballast weight on aircraft has not been taken into account. R 3. Installation of Fittings (Ref. Fig. 004) NOTE: These fittings are installed if a ballast weight is required at FR17. R A. Equipment and Materials R R R ITEM DESIGNATION ______ R (1)98A07003903001 FR17 Lifting/Mooring Fitting B. Procedure R R (1) Remove blanking screws (1). (2)Install fittings (2) 98A07003903001 (98A07003903100-LH and R 98A07003903101-RH) on Frame 17 with bolts (3). R

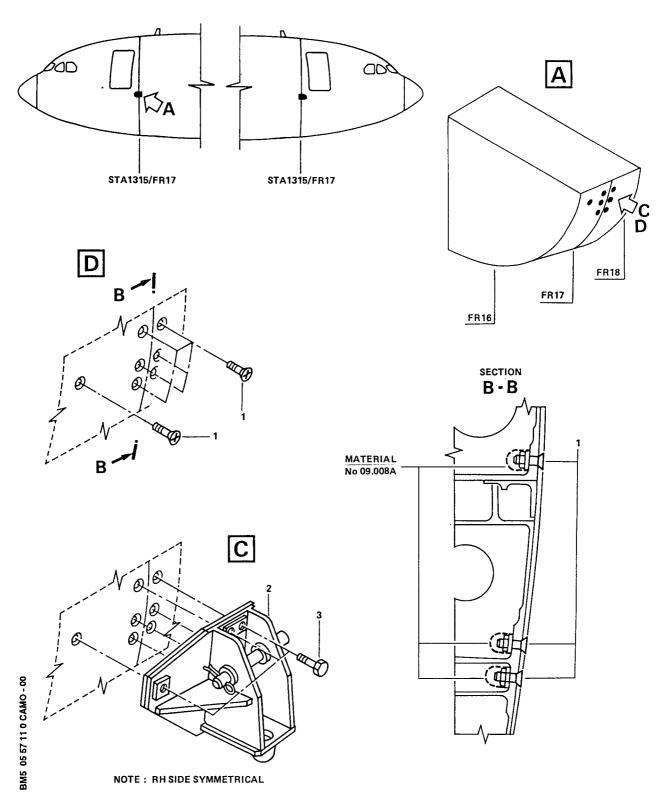
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Lifting/Mooring Fitting - Installation Figure 004

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4. Close-Up

A. Equipment and Materials

ITEM DESIGNATION

(1) Material No. 05-002 Special Materials (Ref. 20-31-00)

(2) Material No. 09-008A Sealants (Ref. 20-31-00)

- B. Removal of Fittings (Ref. Fig. 004)
 - (1)Remove bolts (3), remove fittings (2) 98A07003903001 (98A07003903100-LH and 98A07003903101-RH).
 - (2) Smear threads of blanking screws (1) with Material No. 05-002 and install blanking screws (1) on frame 17.
 - (3) Smear again threads of blanking plugs (1) on the inner side of the aircraft with Material No. 09-008A.

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AIRCRAFT MAINTENANCE MANUAL

NON REVENUE FLIGHT REQUIREMENTS FOLLOWING MAINTENANCE ACTIONS

1. General

Non-revenue flights following maintenance actions are not required by AIRBUS except for actions involving items that cannot be properly ground tested to verify that the aircraft operational characteristics have not been adversely affected. Service experience has shown that a non-revenue flight is good practice following actions or repairs which could affect the aircraft inherent aerodynamic characteristics.

NOTE: Operator regulatory authorities may require non-revenue

flights following certain maintenance actions.

R NOTE: Contact Airbus for a proposed check flight.

2. Engine Replacement

Replacement or reinstallation of both engines does not require a non-revenue flight providing the engines have been successfully shop tested prior to installation, properly installed and successfully ground tested in accordance with all applicable maintenance instructions. However, owing to the number of different interfaces concerned, AIRBUS recommends that a non-revenue flight be carried out after changing or installing both engines to check that no double maintenance induced faults have been introduced.

R NOTE: Contact Airbus for a proposed check flight.

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