

Aircraft Interior Inspection Manual

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Applicability: All Aircraft Types (Specific Aircraft Type Variants May Have Additional Requirements - Refer to Aircraft Maintenance Manual (AMM) Chapter 25)

Purpose: This manual provides guidelines for conducting routine interior inspections of commercial aircraft to ensure passenger safety, comfort, and adherence to airline standards. Inspectors should use this manual in conjunction with the Aircraft Maintenance Manual (AMM) and relevant regulatory requirements (e.g., FAA, EASA). When discrepancies are found, a specific **Form ID** (referenced below) must be completed and submitted to the appropriate department for tracking, maintenance, and closure of reported items.

Form ID Key:

- * **Form-SIG:** Seat Inspection Guidelines Form
- * **Form-OBS:** Overhead Bin and Storage Check Form
- * **Form-CCH:** Cabin Cleanliness and Hygiene Form
- * **Form-EEA:** Emergency Equipment Accessibility Form
- * **Form-IFS:** In-Flight Entertainment Systems Form
- * **Form-LAC:** Lighting and Ambient Conditions Form
- * **Form-LVM:** Lavatory Maintenance Form

Section 1: Seat Inspection Guidelines

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Objective: To identify and rectify any defects in passenger and crew seats that may compromise safety or passenger comfort.

Frequency: Pre-flight checks, daily checks, and scheduled maintenance checks (A, B, C, D checks).

Tools Required: Flashlight, measuring tape, work order form, protective gloves.

Procedure:

1. Visual Inspection (All Seats):

* 1.1. **Upholstery:** Check for tears, rips, stains, excessive wear, loose seams, and burns. Report any damage exceeding 1 inch in any dimension (per Airline Standard 25-10). *If damage found: Complete

Form-SIG*

* 1.2. **Cushioning:** Inspect for proper cushioning. Squeeze seat cushion to ensure adequate support. Report any significant compression or loss of form. *If damage found: Complete **Form-SIG***

* 1.3. **Armrests:** Verify armrests are securely attached and functional. Check for damage, including cracks, loose hinges, and worn padding. Inspect armrest release mechanisms (if applicable) for proper operation. (Airline Standard 25-20 for hinge integrity). *If damage found: Complete **Form-SIG***

* 1.4. **Seat Belts:** Examine seat belts for fraying, cuts, excessive wear, and proper operation of buckles. Ensure belt length is adequate for all passengers. Check for retraction functionality. Replace any belt showing signs of significant damage. Refer to AMM 25-50 for seat belt replacement procedures. *If damage found: Complete **Form-SIG***

* 1.5. **Seat Back Tables:** Inspect for proper latching and locking mechanisms. Ensure tables are clean, undamaged (no cracks or chips), and can support a reasonable weight (Airline Standard 25-30: minimum weight capacity 10 lbs). Check for smooth and complete deployment and stowing. *If damage found:

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Complete **Form-SIG***

* 1.6. **Seat Pockets:** Inspect for cleanliness, tears, and proper attachment. Ensure the pocket is free of debris. (Airline Standard 25-40). *If damage found: Complete **Form-SIG***

* 1.7. **Life Vest Pouch:** Verify the life vest pouch is present and securely attached. Do not open the pouch unless specifically instructed to during maintenance checks. Report any missing or damaged pouches immediately. *If damage found: Complete **Form-SIG***

2. Functionality Checks:

* 2.1. **Reclining Mechanism:** Operate the reclining mechanism (if applicable) to ensure smooth and complete reclining and return. Check for any unusual noises or resistance. *If damage found: Complete **Form-SIG***

* 2.2. **Seat Movement:** Verify the seat moves smoothly forward and backward (if applicable). Check the locking mechanism for proper engagement. *If damage found: Complete **Form-SIG***

* 2.3. **Leg Rests/Footrests:** Inspect leg rests/footrests (if applicable) for proper deployment, retraction, and secure locking. *If damage found: Complete **Form-SIG***

3. Structural Integrity:

* 3.1. **Seat Frame:** Visually inspect the visible portions of the seat frame for corrosion, cracks, or other damage. Refer to AMM 25-10 for detailed frame inspection procedures. *If damage found: Complete **Form-SIG***

* 3.2. **Seat Tracks:** Ensure the seat tracks are clean and free of obstructions. Check for secure attachment to the floor. Report any loose bolts or signs of damage. *If damage found: Complete **Form-SIG***

4. Reporting and Corrective Action:

* 4.1. Document all findings on the work order form, including the seat number, location of defect, and a

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detailed description of the problem. Attach the completed **Form-SIG** to the work order.

- * 4.2. Prioritize defects based on severity (Safety Critical, Major, Minor).
- * 4.3. Report Safety Critical defects immediately to the Maintenance Control Center (MCC) per Airline SOP (Standard Operating Procedure). Examples of Safety Critical defects include broken seat frames, non-functional seat belts, or malfunctioning emergency equipment.
- * 4.4. Minor defects should be scheduled for repair during the next scheduled maintenance check.

Section 2: Overhead Bin and Storage Check

Objective: To ensure the safe and secure storage of passenger luggage and equipment in overhead bins and other storage compartments.

Frequency: Pre-flight checks, daily checks, and scheduled maintenance checks.

Tools Required: Flashlight, safety goggles, gloves.

Procedure:

1. Bin Doors:

- * 1.1. **Latching Mechanism:** Check that each bin door latches securely and opens/closes smoothly. Ensure the latching mechanism is free from obstructions. (Airline Standard 25-50: Latching force requirements). *If damage found: Complete **Form-OBS***

- * 1.2. **Hinges:** Inspect hinges for damage, excessive wear, and proper lubrication. *If damage found: Complete **Form-OBS***

- * 1.3. **Struts/Dampers:** Verify that the gas struts or dampers (if applicable) operate smoothly and prevent

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the bin door from slamming open or closed. Replace struts with diminished performance. *If damage found:

Complete **Form-OBS***

* 1.4. **Door Alignment:** Ensure the bin door aligns properly with the frame when closed. Check for gaps that could allow items to fall out during flight. *If damage found: Complete **Form-OBS***

* 1.5. **Handles:** Verify handles are securely attached and in good condition. *If damage found: Complete **Form-OBS***

2. Bin Interior:

* 2.1. **Cleanliness:** Inspect for cleanliness. Remove any debris, spills, or foreign objects.

* 2.2. **Linings:** Check for tears, rips, or loose linings. Repair or replace damaged linings to prevent damage to passenger belongings. *If damage found: Complete **Form-OBS***

* 2.3. **Lighting:** Verify the functionality of any interior bin lights (if applicable). Replace any burned-out bulbs. *If damage found: Complete **Form-OBS***

3. Bin Structure:

* 3.1. **Cracks/Damage:** Inspect the bin structure for any signs of cracks, dents, or other damage. Pay close attention to areas around hinges and latches. *If damage found: Complete **Form-OBS***

* 3.2. **Security:** Ensure the bin is securely attached to the aircraft structure. Check for loose fasteners or signs of corrosion. *If damage found: Complete **Form-OBS***

4. Storage Compartments (e.g., Crew Oxygen, First Aid Kits):

* 4.1. **Security:** Verify compartments are securely locked or sealed. Ensure access is limited to authorized personnel.

* 4.2. **Inventory:** Confirm the presence of the required equipment (oxygen masks, first aid kits, etc.). Do not open sealed compartments unless specifically instructed to do so.

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- * 4.3. **Accessibility:** Verify the compartment is easily accessible in case of an emergency.

5. Reporting and Corrective Action:

- * 5.1. Document all findings on the work order form. Attach the completed **Form-OBS** to the work order.
- * 5.2. Prioritize defects based on severity.
- * 5.3. Report any unsafe conditions immediately.

Section 3: Cabin Cleanliness and Hygiene

Objective: To maintain a clean and hygienic cabin environment for passengers and crew.

Frequency: Pre-flight checks, turnaround cleaning, and scheduled deep cleaning.

Tools Required: Cleaning supplies (approved by the airline), vacuum cleaner, disinfectant wipes, personal protective equipment (PPE).

Procedure:

1. Floors and Carpets:

- * 1.1. **Vacuuming:** Thoroughly vacuum all carpets and floors. Remove any visible dirt, debris, and spills.

*If cleaning required that exceeds standard turnaround, Complete **Form-CCH***

- * 1.2. **Stain Removal:** Remove any stains from carpets and floors using approved cleaning solutions. *If stain removal cannot be completed, Complete **Form-CCH***

- * 1.3. **Loose Items:** Collect and dispose of any loose items (e.g., newspapers, wrappers, etc.).

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2. Seats:

* 2.1. **Wiping:** Wipe down all seat surfaces (armrests, tables, seat backs) with disinfectant wipes. *If excessive cleaning required, Complete **Form-CCH***

* 2.2. **Seat Pockets:** Clean out seat pockets and remove any debris. *If excessive cleaning required, Complete **Form-CCH***

3. Overhead Bins:

* 3.1. **Wiping:** Wipe down the interior surfaces of overhead bins with disinfectant wipes. *If excessive cleaning required, Complete **Form-CCH***

* 3.2. **Removal of Debris:** Remove any remaining trash or personal items left behind.

4. Window Areas:

* 4.1. **Wiping:** Wipe down window shades and window frames with disinfectant wipes. *If excessive cleaning required, Complete **Form-CCH***

* 4.2. **Cleaning Windows:** Clean windows to remove smudges and dirt. *If excessive cleaning required, Complete **Form-CCH***

5. Galleys:

* 5.1. **Surface Cleaning:** Clean all galley surfaces (countertops, sinks, appliances) with appropriate cleaning solutions.

* 5.2. **Waste Disposal:** Empty all waste bins and dispose of waste properly according to airline procedures.

* 5.3. **Equipment Cleaning:** Clean ovens, coffee makers, and other galley equipment according to manufacturer's instructions.

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6. Lavatories (See Section 7 for detailed Lavatory Maintenance):

- * 6.1. **Thorough Cleaning:** Thoroughly clean and disinfect all lavatory surfaces (toilets, sinks, countertops, mirrors).
- * 6.2. **Restocking:** Restock supplies such as toilet paper, paper towels, and soap.

7. Cabin Air Quality:

- * 7.1. **Odor Control:** Address any unpleasant odors using approved odor control products. *If odor control ineffective, Complete **Form-CCH***
- * 7.2. **Air Vents:** Check that air vents are clean and unobstructed.

8. Reporting and Corrective Action:

- * 8.1. Report any spills or messes that require specialized cleaning. Attach the completed **Form-CCH** to the work order.
- * 8.2. Document any areas that require further attention.

Section 4: Emergency Equipment Accessibility

Objective: To ensure that all emergency equipment is readily accessible and functional in case of an emergency.

Frequency: Pre-flight checks, daily checks, and scheduled maintenance checks.

Tools Required: Flashlight, inventory list.

Procedure:

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1. Fire Extinguishers:

- * 1.1. **Location:** Verify that fire extinguishers are in their designated locations.
- * 1.2. **Security:** Ensure the extinguishers are securely mounted and not obstructed. *If obstructed,

Complete **Form-EEA***

- * 1.3. **Pressure Gauge:** Check the pressure gauge to ensure the extinguisher is fully charged (green zone). *If pressure is low, Complete **Form-EEA***

- * 1.4. **Safety Seal:** Verify that the safety seal is intact. *If safety seal broken, Complete **Form-EEA***

- * 1.5. **Inspection Tag:** Ensure the extinguisher has a valid inspection tag. *If inspection tag invalid, Complete **Form-EEA***

2. Oxygen Masks:

- * 2.1. **Passenger Service Units (PSUs):** Check that the oxygen masks are properly stowed in the PSUs and are accessible. Verify PSU door integrity. *If masks not accessible or PSU door damaged, Complete **Form-EEA***

- * 2.2. **Crew Oxygen Masks:** Verify the location and proper functioning of crew oxygen masks in the cockpit and galley areas. *If masks missing or damaged, Complete **Form-EEA***

3. Life Vests:

- * 3.1. **Location:** Verify that life vests are present under each passenger seat or in designated overhead compartments. *If vests missing, Complete **Form-EEA***

- * 3.2. **Pouch Integrity:** Inspect the life vest pouches for damage or tampering. Do NOT open the pouch unless specifically instructed to do so. *If pouch damaged, Complete **Form-EEA***

4. Emergency Exits:

- * 4.1. **Accessibility:** Ensure that emergency exits are unobstructed and easily accessible. *If obstructed,

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Complete **Form-EEA***

* 4.2. **Signage:** Verify that emergency exit signage is clear, visible, and illuminated. *If signage unclear or not illuminated, Complete **Form-EEA***

* 4.3. **Operation:** (During maintenance checks) Test the operation of emergency exit doors and slides (where applicable) according to AMM procedures.

5. Emergency Lighting:

* 5.1. **Operation:** Verify that emergency lighting systems are functional, including aisle path lighting, exit signs, and overhead lights. *If lighting non-functional, Complete **Form-EEA***

6. First Aid Kits:

- * 6.1. **Location:** Verify the location of first aid kits and emergency medical kits (EMKs).
- * 6.2. **Security:** Ensure the kits are sealed and tamper-evident. Do NOT open the kits unless specifically instructed to do so. *If seal broken, Complete **Form-EEA***
- * 6.3. **Inventory List:** Compare the kit inventory against the provided inventory list.

7. Emergency Locator Transmitter (ELT):

* 7.1. **Security:** Verify that the ELT is securely mounted in its designated location. Do not activate unless in an emergency. (Refer to AMM for testing procedures during scheduled maintenance).

8. Reporting and Corrective Action:

- * 8.1. Immediately report any missing, damaged, or non-functional emergency equipment. Attach the completed **Form-EEA** to the work order.
- * 8.2. Replace or repair defective equipment as soon as possible.

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Section 5: In-Flight Entertainment Systems

Objective: To ensure the functionality and safety of in-flight entertainment (IFE) systems.

Frequency: Pre-flight checks and scheduled maintenance checks.

Tools Required: Testing devices specific to the IFE system, flashlight.

Procedure:

1. Individual Screens:

- * 1.1. **Functionality:** Verify that each individual screen powers on, displays images correctly, and responds to touch or remote control input (if applicable). *If screen malfunctioning, Complete **Form-IFS***
- * 1.2. **Image Quality:** Check for image quality issues such as flickering, distortion, or dead pixels. *If image quality poor, Complete **Form-IFS***
- * 1.3. **Mounting:** Ensure screens are securely mounted and free from damage. *If mounting insecure or screen damaged, Complete **Form-IFS***

2. Headphone Jacks:

- * 2.1. **Functionality:** Test headphone jacks to ensure proper audio output. *If headphone jack malfunctioning, Complete **Form-IFS***

3. Remote Controls:

- * 3.1. **Functionality:** Verify that remote controls (if applicable) are functional and responsive. *If remote malfunctioning, Complete **Form-IFS***

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- * 3.2. **Battery Status:** Check the battery status of remote controls.

4. Main IFE System (Central Server):

- * 4.1. **System Status:** Check the overall status of the IFE system through the diagnostic interface.
- * 4.2. **Content Library:** Verify the content library is up-to-date.

5. Power Outlets/USB Ports:

- * 5.1. **Functionality:** Test power outlets and USB ports for proper operation. *If power outlet/USB port malfunctioning, Complete **Form-IFS***

6. Cables and Wiring:

- * 6.1. **Security:** Inspect visible cables and wiring for damage, loose connections, and proper routing. Ensure cables are not creating tripping hazards. *If cables/wiring damaged or a hazard, Complete **Form-IFS***

7. Reporting and Corrective Action:

- * 7.1. Document any IFE system malfunctions on the work order form. Attach the completed **Form-IFS** to the work order.
- * 7.2. Report system-wide failures immediately to the IT department or designated IFE maintenance personnel.

Section 6: Lighting and Ambient Conditions

Objective: To ensure adequate and comfortable lighting and ambient conditions throughout the cabin.

Frequency: Pre-flight checks, daily checks, and scheduled maintenance checks.

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Tools Required: Light meter (optional).

Procedure:

1. Cabin Lighting:

- * 1.1. **Functionality:** Verify that all cabin lights (overhead lights, reading lights, mood lighting) are functional. *If lighting non-functional, Complete **Form-LAC***
- * 1.2. **Intensity:** Ensure that the light intensity is appropriate for different phases of flight (boarding, taxi, take-off, cruise, landing).
- * 1.3. **Color Temperature:** Check for consistent color temperature of the lighting.
- * 1.4. **Dimming Control:** Test the dimming control of the cabin lighting system. *If dimming control malfunctioning, Complete **Form-LAC***

2. Reading Lights:

- * 2.1. **Functionality:** Verify that each individual reading light is functional and properly positioned. *If light malfunctioning, Complete **Form-LAC***
- * 2.2. **Adjustability:** Ensure the reading lights are adjustable for passenger comfort.

3. Emergency Lighting:

- * 3.1. (Refer to Section 4: Emergency Equipment Accessibility)

4. Window Shades:

- * 4.1. **Operation:** Verify that window shades operate smoothly and lock in the open and closed positions. *If shade malfunctioning, Complete **Form-LAC***
- * 4.2. **Condition:** Check for damage or tears in the window shades. *If shade damaged, Complete

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Form-LAC*

5. Temperature Control:

- * 5.1. **Functionality:** Verify that the cabin temperature control system is functioning properly.
- * 5.2. **Ventilation:** Ensure that air vents are open and unobstructed.

6. Noise Levels:

- * 6.1. **Excessive Noise:** Report any excessive or unusual noise levels in the cabin.

7. Reporting and Corrective Action:

- * 7.1. Document any lighting or ambient condition issues on the work order form. Attach the completed

Form-LAC to the work order.

Section 7: Lavatory Maintenance

Objective: To maintain clean, hygienic, and functional lavatories for passengers and crew.

Frequency: Pre-flight checks, turnaround cleaning, and scheduled deep cleaning.

Tools Required: Cleaning supplies (approved by the airline), disinfectant wipes, gloves, toilet plunger, work order form.

Procedure:

1. Cleanliness and Sanitation:

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- * 1.1. **Toilet Bowl:** Clean and disinfect the toilet bowl thoroughly.
- * 1.2. **Sink and Countertop:** Clean and disinfect the sink, countertop, and mirror.
- * 1.3. **Floor:** Clean and disinfect the floor.
- * 1.4. **Waste Receptacle:** Empty the waste receptacle and replace the liner.
- * 1.5. **Odor Control:** Ensure proper odor control.

2. Supplies:

- * 2.1. **Toilet Paper:** Restock toilet paper.
- * 2.2. **Paper Towels/Hand Dryer:** Ensure an adequate supply of paper towels or verify functionality of the hand dryer. *If Hand Dryer inoperative, Complete **Form-LVM***
- * 2.3. **Soap:** Refill the soap dispenser.
- * 2.4. **Sanitizer (If Equipped):** Refill hand sanitizer dispenser, if equipped.

3. Toilet Functionality:

- * 3.1. **Flushing:** Verify that the toilet flushes properly. *If toilet not flushing, Complete **Form-LVM***
- * 3.2. **Water Flow:** Check the water flow from the faucet. *If faucet not working, Complete **Form-LVM***

4. Waste Disposal System:

- * 4.1. **Leaks:** Inspect for any leaks around the toilet or waste disposal system. *If leaks detected, Complete **Form-LVM***
- * 4.2. **Vacuum System:** (If applicable) Verify the proper operation of the vacuum waste disposal system (listen for unusual noises).

5. Lighting:

- * 5.1. **Functionality:** Verify that the lavatory light is functional. *If lighting inoperative, Complete

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Form-LVM*

6. Smoke Detector:

* 6.1. **Presence:** Verify the presence of a smoke detector (do not test unless specifically instructed to do so during maintenance checks).

7. Accessibility:

* 7.1. **Door Operation:** Verify that the lavatory door opens and closes smoothly and locks securely. *If door malfunctioning, Complete **Form-LVM***

* 7.2. **Assist Handles:** Inspect assist handles for secure attachment. *If handles loose, Complete **Form-LVM***

8. Reporting and Corrective Action:

* 8.1. Report any clogged toilets, leaks, or other malfunctions immediately. Attach the completed **Form-LVM** to the work order.

* 8.2. Document all findings on the work order form.

END OF MANUAL

Note: This manual is a general guideline. Refer to the Aircraft Maintenance Manual (AMM) and Airline Standard Operating Procedures (SOPs) for specific instructions and requirements related to your aircraft type and airline. Always prioritize safety and report any discrepancies immediately. This manual is subject to change without notice. Consult your supervisor or the maintenance department for the latest revisions. All maintenance personnel should be properly trained on the use and application of this manual, the Aircraft Maintenance Manual, and any other relevant documentation as required by the airline. Hard copies of all

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forms (**Form-SIG**, **Form-OBS**, **Form-CCH**, **Form-EEA**, **Form-IFS**, **Form-LAC**, and **Form-LVM**) should be readily available for inspectors. These forms can also be accessed digitally on the company intranet.