

(Unofficial Translation)

Date: 09/27/18 No: KOKU-KAN-SANJI-614

Date: 08/23/19 No: KOKU-KAN-SANJI-504

Date: 09/18/20 No: KOKU-KAN-SANJI-449

Date: 08/17/21 No: KOKU-KAN-SANJI-276

Date: 03/18/22 No: KOKU-KAN-SANJI-764

Date: 03/29/22 No: KOKU-KAN-SANJI-826

Director of Air Transport Safety Unit  
Aviation Safety and Security Department  
Civil Aviation Bureau of Japan  
Ministry of Land, Infrastructure, Transport and Tourism

Subject: The Detailed Regulations of the Technical Standard to Prevent Objects Falling off  
Airplanes

1. Purpose.

Based on the provisions of the Technical Standard to Prevent Objects Falling off Airplanes (hereinafter referred to as “the Standard”) and in order to bring it into effect, the Detailed Regulations of the Technical Standard to Prevent Objects Falling off Airplanes (hereinafter referred to as “the Detailed Regulations”) is established as follows.

2. Applicability.

The applicability of the Detailed Regulations is the same as the Standard.

3. Application for Licenses or Authorization.

The application under the provisions of the Standard shall meet the following requirements. However, the operation manual or the maintenance manual of domestic air carriers may contain the following matters in lieu of the application matters.

3-1 Engineering management.

3-1-1 The operators must have a system to collect the information of falling objects, analyze and assess from the engineering aspect, and based on these results, develop countermeasures (inspection, maintenance and others) and implement

them under 3-1 of the Standard.

3-1-2 The operators must nominate a person who is to be the supervisor of the system as referred to in the preceding paragraph, and take corrective actions properly under the supervision of the person.

3-1-3 The operators shall specify matters to provide instructions to contractors, if applicable, to have the contractors take corrective actions under 3-1-1.

### 3-2 Corrective actions.

3-2-1 Accomplishing technical documents effective to prevent falling objects.

3-2-1-1 The operators must accomplish technical documents under 3-2-1 of the Standard (Corresponding to the latest version of the Service Bulletins in Appendix A-1 through A-6) issued by aircraft and component manufacturers that are considered effective to prevent falling objects; provided, however, it is acceptable that this shall not apply on the case of implementing equivalent measures acknowledged by these manufacturers.

3-2-1-2 In addition to the documents in the preceding paragraph, the operators themselves shall conduct engineering assessments and proactively accomplish ones that are considered effective as a means to prevent falling objects.

3-2-1-3 In addition to the documents in paragraph 3-2-1-1, the operators shall endeavor to accomplish technical documents (e.g., Service Bulletins) regarding engine failures, because uncontained release of debris due to damage of engine such a case where fragments penetrated the casing of subject engine or a major damage occurred inside the engine could endanger the safe of persons or object on land or on water.

### 3-2-2 Other measures.

3-2-2-1 In addition to the measures in 3-2-1, the operators must implement effective measures in Appendix B; provided, however, it is acceptable that this shall not apply on the case of implementing equivalent measures acknowledged by the Director of Air Transport Safety Unit.

In addition to the measures in the preceding paragraph, in regard to the actions in preventing falling objects, the operators shall examine and assess area where Parts Departing from Aircraft (hereinafter referred to as “PDA”) occurred and the area prone to cause ice accumulation by the operator itself, and based on these results, the operators should develop countermeasures (inspection,

maintenance and others) and implement them, and shall endeavor to provide JCAB with the information about the countermeasures considered effective to prevent falling objects for other operators.

3-2-2-2 In case a PDA occurs, if it is classified in the Category I or Category II, the operators must examine and assess each individual case. If a PDA is classified in the Category III, the operators may develop measures considering the statistical analysis of how it occurred, such as weight, frequencies and others.

Table: Category of PDA

Category	Description
I	Parts of 1000cm <sup>2</sup> or larger in size (area) or 1kg or more in weight (any material)
II	Non-metallic parts from 100 cm <sup>2</sup> to 1000 cm <sup>2</sup> in size (area) or those from 0.2kg to 1kg in weight, or; Metallic parts from 100 cm <sup>2</sup> to 1000 cm <sup>2</sup> in size (area) or from 0.1 kg to 1kg in weight; The following parts are classified in the category II regardless of weight, material, or size. <ul style="list-style-type: none"><li>- Rubber seals of 100 cm or more in length:</li><li>- Total loss of exterior light</li></ul>
III	Any parts other than the above

### 3-3 Education and Training.

The following matters necessary for the educational training regarding measures to prevent falling objects to the persons specified in 3-3 of the Standard shall be prescribed:

3-3-1 Education and training subjects in accordance with the content of measures to prevent falling objects (including other measures), the content of duties and experience, and etc.

3-3-2 The provisions of the preceding paragraph apply in the case where education and training is entrusted.

### Supplementary Provisions (September 27, 2018)

1. This standard affects persons described in paragraph 1, 1-1 and 1-2 applying for a new license for air transport services and aerial work services after January 15, 2019.
2. This standard affects persons described in paragraph 1, 1-3 applying for a new license for international air transport services by foreign nationals after March 15, 2019.
3. This standard affects domestic operators described in paragraph 1, 1-4 and 1-5

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applying for an approval for alteration of the operation plan after January 15, 2019.

4. This standard affects foreign international operators described in paragraph 1, 1-6 applying for an approval for alteration of the operation plan after March 15, 2019.

Supplementary Provisions (August 23, 2019)

1. This standard shall be applicable on October 12, 2019.
2. With regard to the application of the revised standard to the person who has been granted approval of air transport services, aerial work services and international air transport services at the time of the enforcement of this standard, the provisions then in force shall remain applicable until October 26, 2019.

Supplementary Provisions (September 18, 2020)

1. This standard shall be applicable on October 10, 2020.
2. With regard to the application of the revised standard to the person who has been granted approval of air transport services, aerial work services and international air transport services at the time of the enforcement of this standard, the provisions then in force shall remain applicable until October 24, 2020.

Supplementary Provisions (August 17, 2021)

1. This standard shall be applicable on October 17, 2021.
2. With regard to the application of the revised standard to the person who has been granted approval of air transport services, aerial work services and international air transport services at the time of the enforcement of this standard, the provisions then in force shall remain applicable until October 31, 2021.

Supplementary Provisions (March 18, 2022)

1. This standard shall be applicable on March 18, 2022.
2. With regard to the application of the revised standard to the person who has been granted approval of air transport services, aerial work services and international air transport services at the time of the enforcement of this standard, the provisions then in force shall remain applicable until March 27, 2022.

Supplementary Provisions (March 29, 2022)

This standard shall be applicable on April 1, 2022.

Direct your questions or comments to Transport Standards Staff, Air Transport Safety Unit, Civil Aviation Bureau of Japan, Ministry of Land, Infrastructure, Transport and

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(Appendix A-1)

Boeing Service Bulletin

Service Bulletin	Title
SB 707-2982	INBOARD LEADING EDGE SLAT HINGE FITTING INSPECTION/ REPLACEMENT
SB 727-27-0129	MODIFICATION OF OUTBOARD LEADING EDGE SLAT ACTUATOR
SB 737-38-1043	WATER/WASTE - Potable Water System - Passenger Water System - Inflight Potable Water Drainage Change
SB 737-52A1124	DOORS - FORWARD GALLEY SERVICE DOOR - LOWER GATE HINGE INSPECTION AND REPLACEMENT
SB 737-52A1167	DOORS - Landing Gear Doors - Inboard Main Landing Gear Door Hinge Fitting - Inspection and Replacement
SB 737-52-1169	DOORS - Landing Gear Doors - Inboard Main Landing Gear Doors - Inspection and Repair
SB 737-52-1170	DOORS - Landing Gear Center Door Assembly Attachments - inspection, Repair and Modification
SB 737-53-1280	FUSELAGE - Fillet Fairings - Aft Outboard Wing to Body Fairing Modification
SB 737-53-1307	FUSELAGE - Fillet Fairings - Aft Wing to Body Fairing - Panel 194E and Aft Center Wheel Well Panel 193D - Inspection and Rework
SB 737-55A1070	STABILIZERS - Elevator - Tab Assembly - Inspection of Elevator Tab Hinge and Elevator Tab Control Mechanism
SB 737-55A1072	STABILIZERS - Elevator - Tab Assembly - Inspection of Elevator Tab Hinge and Elevator Tab Control Mechanism
SB 737-57-1053	INBOARD GROUND SPOILER UPPER SKIN PANEL INSPECTION AND REWORK
SB 737-57-1057	INBOARD MID FLAP SEAL PLATE AFT ATTACHMENT MODIFICATION
SB 737-57-1169	WINGS - INBOARD FLAP OUTBOARD TRACK FAIRING - BUBBLE FAIRING ATTACHMENT INSPECTION, MODIFICATION AND REPLACEMENT
SB 737-57-1216	WINGS - Main Landing Gear Support Beam Retaining Pin - Bolt and Self-Locking Nut Replacement
SB 737-57A1260	WINGS - Main Landing Gear Beam - Fitting Inspection and Replacement
SB 737-57-1264	WINGS - Trailing Edge and Trailing Devices, Carriage Bushing Replacement
SB 737-57-1284	Wings - Trailing Edge and Trailing Edge Devices - Inspection, Repair/ Modification - Wing Buttock Line 147 to Wing Buttock Line 201
SB 737-57-1331	Wings - Trailing Edge Flaps - Inboard Main Flap Seal Faster Change
SB 737-57A1327	WINGS - Leading Edge And Leading Edge Devices - Krueger Flap Inspection

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SB 737-57-1341	WINGS - Trailing Edge Flaps - Outboard Aft Flap Assembly Replacement
SB 737-71-1069	ENGINE AFT MOUNT SECONDARY SUPPORT LINK INSTALLATION
SB 737-77-1013	ENGINE INDICATING - EXHAUST GAS TEMPERATURE INDICATING SYSTEM - WIRING MODIFICATION
SB 737-77-1019	THRUST REVERSER DEFLECTOR DOOR FAIRING MOUNTING STUD INSPECTION AND REPLACEMENT
SB 737-78-1071	EXHAUST - Thrust Reverser - Replace Fasteners for Track Fairing Seals
Honeywell SB 2215240-21-2806	AIR CONDITIONING - LEFT HAND (LH) PRIMARY HEAT EXCHANGER UNIT
Honeywell SB 2215280-21-2808	AIR CONDITIONING - RIGHT HAND (RH) PRIMARY HEAT EXCHANGER UNIT
SB 747-21-2052	AIR CONDITIONING PACK RAM AIR HEADER AND HEAT EXCHANGER MODIFICATION
SB 747-23-2055	HF PROBE ANTENNA MOUNT REINFORCEMENT
SB 747-23-2080	CRASH POSITION INDICATOR BASE ASSEMBLY MODIFICATION
SB 747-27-2070	INBOARD FOREFLAP ATTACH FITTING BEARING MIGRATION INSPECTION AND RETAINER INSTALLATION
SB 747-28-2347	FUEL DISTRIBUTION - Pressure Fueling System - Refuel Receptacle Manual Shut-off Valve Handle Change and Fueling Adaptor Cap Removal
SB 747-32-2334	LANDING GEAR-MAIN GEAR AND DOORS-WING GEAR DRAG BRACE-INBOARD DOOR ATTACH FITTING ASSEMBLY INSPECTION AND REPLACEMENT
SB 747-32-2466	LANDING GEAR - BODY GEAR DOORS - BODY GEAR SHOCK STRUT OUTBOARD DOOR - INSPECTION AND CORROSION PROTECTION MODIFICATION
SB 747-36-2025	AIR DRIVEN HYDRAULIC PUMP TURBINE DRIVE PROTECTIVE SCREEN INSTALLATION
SB 747-52-2120	CENTER ELECTRONIC BAY EXTERNAL ACCESS DOOR STOP FITTING INSPECTION
SB 747-52-2238	DOORS - EXTERIOR SERVICE DOORS - INSPECTION OF FUELING CONTROL PANEL ACCESS DOOR
SB 747-52-2269	DOORS - Exterior Service Doors - Latch Modification on the Fueling Control Panel and Fueling Receptacle Access Doors
SB 747-53-2460	FUSELAGE - Number 3 Main Entry Door - Lower Forward Corner Reveal - Inspection and Replacement

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SB 747-53-2871	FUSELAGE - Wing-to-Body Fairings - Air Conditioning Access Panel and Pressure Relief Door Inspection, Repair and Modification
SB 747-53-2892	FUSELAGE - Air Conditioning Access Doors - Inspection of Latches and Application of Warning Stencils
SB 747-53-2893	FUSELAGE - Wheel Wells - Nose Landing Gear Forward Door Operator Rod Bolt Replacement
SB 747-53-2894	FUSELAGE - Wheel Wells - Nose Landing Gear Forward Door Operator Rod Bolt Replacement
SB 747-53-2897	FUSELAGE - Wing to Body Fairings - Inspection and Repair of Wing to Body Fairing Panels
SB 747-54-2249	NACELLES/PYLONS - Nacelle Strut Access Panels - Number (No.) 2 Strut, Aft Fairing, Pressure Relief Door Hinge Change
SB 747-56A2012	WINDOWS - Flight Compartment - Flight Compartment Windows - Inspection of Glass No. 2 and No. 3 Windows for Cracks in the Fail-Safe Interlayer
SB 747-57-2005	WING TIP HF ANTENNA COUPLER ACCESS DOOR LATCH REPLACEMENT
SB 747-57-2122	MOVEABLE FAIRING RETENTION CABLE INSTALLATION - FLAP TRACK NUMBER 1, 4, 5, AND 8
SB 747-57-2261	WINGS - AUXILIARY STRUCTURE - FIXED TRAILING EDGE UPPER PANEL - INSPECTION AND RIGGING
SB 747-57-2276	WINGS - LEADING EDGE KRUEGER FLAPS - INBOARD AND OUTBOARD RIB AND BRACKET ASSEMBLY INSPECTION AND REWORK
SB 747-71A2216	POWER PLANT - ENGINE MOUNTS - FORWARD MOUNT NUT INSPECTION
SB 747-71-2139	SPARE ENGINE CARRIAGE KIT WEB REVISION
SB 747-71-2285	POWER PLANT - (CF6-80C2) COWLING CORE COWL PANEL FRAME CHANGE
SB 747-76-2067	ENGINE CONTROLS - Engine Control - System - Thrust Control Cables - Strut Idler Pulley Inspection
SB 747-78-2070	THRUST REVERSER FOLLOW-UP SYSTEM INSPECTION AND REWORK - CF6-50E ENGINES
SB 747-78-2075	FAN THRUST REVERSER FOLLOW-UP SYSTEM MODIFICATION - CF6 POWERED AIRPLANES
SB 747-78A2164	EXHAUST (PW4000 ENGINES) - Thrust Reverser - Auxiliary Track Beam Assembly Inspection/Replacement
747-FTD-57-14002	Inboard Aileron - Damaged or Missing Aerodynamic Seals
SB 757-25-0200	EQUIPMENT/FURNISHINGS - Emergency - Off-Wing Escape System - Bumper Assembly and Placard Installation



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SB 757-25-0219	EQUIPMENT/FURNISHINGS - Emergency - Off-Wing Escape System - Bumper Assembly and Placard Installation
SB 757-30-0005	ICE AND RAIN PROTECTION - PITOT PROBE ANTI-ICING MODIFICATION - RB211-535 E4 ENGINES
SB 757-32-0004	LANDING GEAR - EXTENSION AND RETRACTION - MAIN LANDING GEAR DOOR ACTUATOR REPLACEMENT
SB 757-32-0036	LANDING GEAR - STEERING - NOSE GEAR STRUT - CABLE GUARD ADDITION
SB 757-32-0073	LANDING GEAR - NOSE LANDING GEAR - NOSE GEAR DOOR LOCK RELEASE QUADRANT REWORK
SB 757-52-0061	LANDING GEAR - MAIN LANDING GEAR DOOR TANG ASSEMBLY DROP LINK AND CLEVIS INSPECTION AND CHANGE
SB 757-57-0027	WINGS - Wing Trailing Edge Fixed Upper Panel Support Beam Clip Inspection and Replacement
SB 757-57-0036	WINGS - INBOARD TRAILING EDGE - FIXED UPPER PANEL - INSPECTION AND REPAIR
SB 757-57A0072	WINGS - Trailing Edge and Trailing Edge Devices - Inspection and Repair of the Upper Panel Assy - WBL 130.5 to 221.5, Left and Right
SB 767-25-0274	EQUIPMENT/FURNISHINGS - EMERGENCY - OFF-WING SLIDE INFLATION CYLINDER - SLIDE INFLATION SYSTEM PULL FORCE INCREASE MECHANISM INSPECTION
SB 767-27-0083	FLIGHT CONTROLS - FLAPS - OUTBOARD FLAP FAIRING INSPECTION
SB 767-27-0184	FLIGHT CONTROLS - FLAPS - OUTBOARD FLAP - Deflection Control Track - Inspection/Replacement
SB 767-32A0036	LANDING GEAR - EXTENSION AND RETRACTION - MAIN GEAR RETRACT ACTUATOR RETAINER ASSEMBLY MODIFICATION
SB 767-32-0101	MAIN LANDING GEAR AND DOORS - Main Gear Shock Strut Door and Linkage - Lower Attach Fitting Replacement
SB 767-32-0146	LANDING GEAR - Main Landing Gear and Doors - Main Gear Shock Strut Door and Linkage - Mid Attach Fitting Replacement
SB 767-32-0194	LANDING GEAR - Main Landing Gear and Doors - Main Gear Shock Strut Door and Linkage - Mid and Lower Attach Fitting Hardware Replacement
SB 767-32A0199	LANDING GEAR - Main Landing Gear Bogie Beam Pivot Joint Pin Replacement
SB 767-49-0016	AIRBORNE AUXILARY POWER - APU AIR INTAKE DOOR SEAL - SEAL MODIFICATION

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SB 767-57-0086	WINGS - Wing Fixed Trailing Edge - Lower Trailing Edge Panel Support - Tie Rod and Seal Replacement
SB 767-57A0131	WINGS - Trailing Edge and Trailing Edge Devices - Outboard Flap Support Rib Nut Fracture Inspection
SB 767-57-0136	WINGS - Wing Trailing Edge - Fixed Trailing Edge Upper Chord at Wing Station 943, 1054 and 1098 - Change
SB 767-78-0014	EXHAUST (JT9D-7R4 ENGINES) - FAN THRUST REVERSER CASCADE SEGMENTS - INSPECTION
SB 767-78-0020	EXHAUST (JT9D-7R4 ENGINES) - THRUST REVERSER - FAN THRUST REVERSER CASCADE SEGMENTS - REPLACEMENT
SB 767-78-0024	EXHAUST (CF6-80A ENGINES) - THRUST REVERSER - THRUST REVERSER CASCADE SEGMENTS - REPLACEMENT
SB 767-78-0039	EXHAUST (CF6-80A ENGINES) - THRUST REVERSER - AUXILIARY SLIDER INSPECTION / REPLACEMENT
SB 767-78A0079	EXHAUST (PW4000 ENGINES) - Thrust Reverser - Auxiliary Track Beam Assembly Inspection/Replacement
SL 767-SL-52-046	MAIN LANDING GEAR DOOR BULB SEALS RETENTION
SL 767-SL-54-018-B	STRUT AFT FAIRING ACCESS DOOR ASSEMBLIES – EXTERIOR PLY DELAMINATION
ZODIAC AEROSPACE S.B. 767 106-25-13	Installation of Orifice Fitting Assembly in Enclosure Ball Lock System
SB 777-27-0022	AILERONS AND FLAPERONS - AILERON LEADING EDGE RIB ADDITION AND FIXED TRAILING EDGE SEAL REPLACEMENT
SB 777-27A0056	FLIGHT CONTROLS - Ailerons and Flaperons - Flaperon Power Control Unit (PCU) Yoke Assembly - Attach Bolt Inspection and Replacement
SB 777-32-0070	LANDING GEAR - Main Landing Gear Extension and Retraction System - Side Brace and Drag Brace Lock Spring Replacement
SB 777-32-0074	LANDING GEAR - Main Landing Gear Doors - Drag Strut Door Hinges Replacement
SB 777-32-0075	LANDING GEAR - Main Landing Gear Steering Crank - Main Landing Gear Steering Crank Assembly Bushing Inspection and Steering Crank Pivot Pin Change/Replacement
SB 777-32-0079	LANDING GEAR - Main Landing Gear Extension and Retraction System - Main Landing Gear Uplock Springs Replacement
SB 777-32-0081	LANDING GEAR - Main Landing Gear Extension and Retraction System - Side Brace and Drag Brace Lock Spring Replacement
SB 777-32-0105	LANDING GEAR - Main Landing Gear Extension and Retraction System - Main Landing Gear Door Uplock Springs Replacement

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SB 777-53-0049	FUSELAGE - Aerodynamic Fairings - Aft Wing-to-Body Fairing Panel Captive Fastener Inspection and Replacement
SB 777-53-0050	FUSELAGE - Section 44 - Aerodynamic Fairings - Underwing Fairing Access Doors - Rigging and Latch Replacement
SB 777-53-0056	FUSELAGE - Aerodynamic Fairings - Right Upper Aft Fairing Panel Assembly Misfair Inspection/Replacement
SB 777-53-0058	FUSELAGE - Aerodynamic Fairing - Wing-to-Body Fairing - Change Overwing Fairing Panel Fasteners
SB 777-53-0088	FUSELAGE - Aft wing to body Fairing Panel - Bracket Assembly - Replacement
SB 777-54-0030	NACELLES/PYLONS - Aft Fairing - Strut Aft Fairing Lower Spar Heat Shield Insulation Blankets Replacement
SB 777-54-0037	NACELLES/PYLONS - Aft Fairing - Aft Fairing Closeout Casting and Panel Modification
SB 777-57-0005	WINGS - TRAILING EDGE AND TRAIL EDGE DEVICES - INBOARD FLAP - NUMBER 3 AND 6 FLAP SUPPORT FAIRING INSPECTION AND REWORK
SB 777-57-0032	WING - Leading Edge and Leading Edge Devices - Inboard Leading Edge - Flexible Slat Skirt Extension Door Replacement
SB 777-57A0034	WINGS - Leading Edge Slats - Outboard Slats - Slat Number 1 through 6 and 9 through 14 - Inspection and Modification
SB 777-57-0055	WINGS - Outer Wing - Outboard Auxiliary Support Fairing and Outboard Flap Modification
SB 777-57-0085	WINGS - Ailerons and Flaperons - Flaperon Seal Replacement
SB 777-57-0093	WINGS - Wing Trailing Edge - Inboard Fixed Trailing Edge Support Beam Replacement
SB 777-57-0094	WINGS - Trailing Edge Flaps - Inboard Trailing Edge Flap, Outboard Aft Flap Track Forward Attach Fitting - Inspection, Change and Replacement
SB 777-57-0099	WINGS - Outer Wing - Inboard Flaps - No.3 and No.6 Aft Fairing Stiffener Installation
SB 777-57A0123	WINGS - Outer Wing - Number 1, Number 2, Number 7 and Number 8 Outboard Flap Support at the Wing Rear Spar Nut and Shim - Inspection and Change
SB 777-71-0070	POWER PLANT - Engine Cowling - GE90-100 Series Engines Fan Cowl Inspection, Repair, and Change
SB 777-78-0022	POWER PLANT (PW4000)-EXHAUST - THRUST REVERSER - UPPER BIFURCATION EROSION SHIELD - ADDITION
SB 777-78-0067	EXHAUST (RR Trent Engines) - Turbine Exhaust System - Primary Exhaust Nozzle Assembly Replacement
SB 777-78-0077	EXHAUST (GE90-100 Series Engines) - Thrust Reverser - Thrust Reverser Latch Access Doors - Latch Replacement

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SB 777-78-0082	EXHAUST (Trent 800 Engines) - Thrust Reverser System - Thrust Reverser Aft Cowl Modification and Thermal Protection System Change
SB 777-78A0094	EXHAUST (Trent 800 Engines) - Thrust Reverser System - Thrust Reverser Inner Wall Replacement
SB 777-78-0098	EXHAUST (GE90-90/-100 Series Engine) - Thrust Reverser System - Blocker Door Drag Link Replacement
Honeywell SB 2611202-32-003 or Honeywell SB 2611202-32-004 or Honeywell SB 2611202-32-005 or Honeywell SB 2611202-32-006	LANDING GEAR - MAIN BRAKE ASSEMBLY - New Heat Sink Configuration with Improved Anti-Oxidant(AO) System for the Main Brake Assembly, PN 2611202-2, Used on Model 777 Aircraft  LANDING GEAR – MAIN BRAKE ASSEMBLY–New Heat Sink Configuration with Alternate Carbon Fiber Supplier for the Main Brake Assembly, PNs 2611202-2, 2611202-2A, and 2611202-2B, Used on Model 777 Aircraft  LANDING GEAR - MAIN BRAKE ASSEMBLY - New RX Two-Piece Heat Sink Configuration with Improved P-39 AO System for the Main Brake Assembly, PNs 2611202-2, 2611202-2A, and 2611202-2B, Used on Model 777 Aircraft  LANDING GEAR - MAIN BRAKE ASSEMBLY - New Heat Sink Configuration with Carbon Discs Manufactured with an Optimized Process for the Main Brake Assembly, PN 2611202-2, PN 2611202-2A, and PN 2611202-2B, used on Model 777 Aircraft
SB 787-52-0021	DOORS - Service and Miscellaneous Doors - Replacement of Hinges on Potable Water Service Access Door
SB 787-53-0022	FUSELAGE - Main Landing Gear Wheel Well Structure - Section 45 - Aft Wheel Well Bulkhead Heat Shield Click Bond Revision
SB B787-81205-SB520029-00	DOORS - Service and Miscellaneous Doors - PotableWater Service Door Replacement
SB B787-81205-SB780043-00	EXHAUST - Thrust Reverser System - Thrust Reverser Translating Sleeve Secondary Slider - Inspection and Repair
Collins Aerospace AOL PUB0003517	ENGINE - Trent 1000 - 41 Translating Sleeve Acoustic Fairing PDA
CF6-80C2 SB 72-1283 or CF6-80C2 SB 72-1457	ENGINE - HIGH PRESSURE TURBINE ROTOR (72-53-00) - NEW STAGE 2 BLADES  ENGINE - HIGH PRESSURE TURBINE ROTOR (72-53-00) - NEW STAGE 2 HPTR BLADE

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or CF6-80C2 SB 72-1519	ENGINE - HIGH PRESSURE TURBINE ROTOR ASSEMBLY (72-53-00) - INTRODUCTION OF NEW STAGE 2 HPTR BLADE
SB PW4ENG 72-488	ENGINE — DUCT SEGMENT, THIRD STAGE LPT ASSEMBLY — INCORPORATION OF DUCT SEGMENTS WITH INTEGRAL SEAL PLATES; AND REVISED REPAIR DETAILS
SB PW4ENG 72-804	ENGINE — VANE CLUSTER ASSEMBLY, 4TH STAGE LOW PRESSURE TURBINE (LPT) — INSPECTION FOR SUSPECT VANE CLUSTERS
Special Instruction No. 50F-21	PW4000-94" HPT2 Blade Outer Air Seal Borescope Inspection
GE90-100 SB 72-0637	ENGINE - GENERAL (72-00-00) - SPARE PARTS RELEASE FOR GE90-100 ENGINES
GE90-100 SB 72-0652	FAN STATOR ASSEMBLY (72-24-00) - INTRODUCTION OF OGV FAIRINGS WITH WIDER CLEARANCES
GE90-100 SB 72-0786	ENGINE - LPT ROTOR/STATOR ASSEMBLY (72-56-00) - INSPECTION OF LPT STAGE 5 AND STAGE 6 NOZZLES AT SHOP VISIT
GE90-100 SB 72-0821	ENGINE - LPT ROTOR STATOR ASSEMBLY (72-56-00) - LPT STAGE 5 AND LPT STAGE 6 NOZZLE INNER BAND REWORK

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(Appendix A-2)

Airbus Service Bulletin

Single Aisle Family (A318 - A319 - A320 – A321 Family)

Service Bulletin	Title
SB 32-1400	LANDING GEAR - NOSE GEAR - MODIFY NLG TORQUE-LINK APEX PIN
SB 32-1494	LANDING GEAR - MAIN GEAR - INTRODUCE TWO CHAMFERS TO THE CURRENT HYDRAULIC TRANSFER BLOCK
SB 32-1495	LANDING GEAR - MAIN GEAR - INTRODUCE TWO CHAMFERS TO THE CURRENT HYDRAULIC TRANSFER BLOCK FOR NEO AIRCRAFT
SB 32-1500	LANDING GEAR - GENERAL - INSPECTION OF NLG TORQUE LINK APEX PIN POST MOD NO 153020J3396 FOR CEO AIRCRAFT
SB 32-1501	LANDING GEAR - GENERAL - INSPECTION OF NLG TORQUE LINK APEX PIN POST MOD NO 153020J3396 FOR NEO AIRCRAFT
SB 52-1160	DOORS - CARGO COMPT DOOR HYD SYSTEM - IMPROVE LOCKING AND INTERFACE TOLERANCE OF MANUAL SELECTOR VALVE (MSV) LEVER
(SB 52-1177)	(DOORS - CARGO COMPT DOOR HYDRAULIC SYSTEM - IMPROVE MSV LEVER DEFFINITION AND INSTALLATION)
SB 53-1164	MODIFY FUEL PANEL ACCESS DOOR OPENING DIRECTION
SB 53-1189	SIMPLIFY THE INSTALLATION OF FUEL PANEL ACCESS DOOR 192MB "WIND DIRECTION OPENING"
SB 53-1195	FUSELAGE - CENTER FUSELAGE - INSPECT MLG DOOR ACTUATOR FITTING ON KEEL BEAM
SB 53-1196	FUSELAGE - CENTER FUSELAGE - INSPECT MLG DOOR HINGE FITTING ON KEEL BEAM
SB 53-1267	FUSELAGE -REAR FUSELAGE -APPLY COLD WORKING AND REPLACE RIVETS IN THE WASTE WATER SERVICE PANEL AREA AT S18
SB 53-1272	POTABLE WATER AND WASTE WATER SERVICE PANEL - REPLACEMENT
SB 53-1323	FUSELAGE - REAR FUSELAGE - REDESIGN THE CONNECTION OF THE SERVICE DOOR FOR 197FB
SB 53-1325	FUSELAGE - CENTER FUSELAGE - INSPECT MLG DOOR ACTUATOR FITTING ON KEEL BEAM
SB 53-1326	FUSELAGE - CENTER FUSELAGE - INSPECT MLG DOOR HINGE FITTING ON KEEL BEAM
SB 54-1028	NACELLE & PYLON - AFT MOVABLE FAIRING - RIB 5 REDESIGN

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SB 54-1042	NACELLES / PYLONS - PRESSURE RELIEF DOOR - HOOK REPLACEMENT PROCEDURE FOR NEO AIRCRAFT
SB 55-1034	STABILIZERS - ELEVATORS - A320 FAM ELEVATOR WEIGHT CHECK
SB 55-1041	STABILIZERS - RUDDER SIDE SHELL SANDWICH REPAIR INSPECTION
SB 55-1046	STABILIZERS - ELEVATOR - INSPECTION OF ELEVATOR UPPER AND LOWER SKIN PANELS FOR LIQUID INGRESS
SB 56-1022	WINDOWS - FIXED WINDOWS - INSPECTION OF SAINT-GOBAIN SULLY FRONT WINDSHIELD ON CEO AIRCRAFT
SB 56-1023	WINDOWS - FIXED WINDOWS - INSPECTION OF SAINT-GOBAIN SULLY FRONT WINDSHIELD ON NEO AIRCRAFT
SB 71-1061	POWER PLANT - FAN COWL DOORS - INTRODUCE AN IMPROVED OIL FILLER DOOR LATCH DESIGN ON IAE ENGINE
SB 71-1068	POWER PLANT - FAN COWL DOORS - INTRODUCE NEW FAN COWL DOOR LATCH WITH KEY & FLAG ON CFM56-5A/5B ENGINE
SB 71-1069	POWER PLANT - FAN COWL DOORS - INTRODUCE NEW FAN COWL DOOR LATCH WITH KEY & FLAG ON IAE V2500 ENGINE
SB 80-1004	STARTING - ENGINE STARTING SYSTEM - INTRODUCE IMPROVED PACKAGE FOR STARTER IAE V2500 ENGINE
GOODRICH SB GRAA320NEO- A-78-30-0024- 00001-930A-D	EXHAUST - THRUST REVERSER - BLOCKER DOOR FAIRING INSPECTION

(Unofficial Translation)

Long Range Family (A330- A340 Family) & Extra Large Body (A350)

Service Bulletin	Title
SB 32-P001	LANDING GEAR - NOSE LANDING GEAR (NLG) - REMOVE FLEX UNLOCK ACTUATOR HOSES GUIDES AND L-BRACKETS IN NLG BAY
SB 32-3167 SB 32-4206	LANDING GEAR-WHEELS-INTRODUCE POSITIVE RETENTION FEATURE FOR GOODRICH-MESSIER MLG BASIC WHEEL TIE-BOLTS
SB 52-3076 SB 52-4087 SB 52-5010	IMPROVE SERVICE PANEL ACCESS DOORS IN SECTION 16/17/18
SB 52-3086 SB 52-4094 SB 52-5019	MODIFICATION OF LATCHING MECHANISM OF POTABLE WATER SERVICE PANEL
SB 52-3108 SB 52-4111 SB 52-5032	IMPROVE SERVICE PANEL ACCESS DOORS IN SECTION 16 AND 18 (SUPERSEDE A330-52-3076/A340-52-4087/A340-52-5010 RESPECTIVELY)
SB 53-3097	FUSELAGE - REAR FUSELAGE - REINFORCE THE FUSELAGE SKIN BETWEEN FR54 AND FR55 IN THE AREA OF THE VHF2 ANTENNA
SB 53-3112	FUSELAGE - REAR FUSELAGE - RELOCATE VHF 2 ANTENNA
SB 54-3036	NACELLES PYLONS -PYLONS- MODIFY TORQUE VALUE
SB 57-P042	WINGS - DROOP NOSE - INSPECTION OF DROOP NOSE INBOARD SEAL ATTACHMENT
SB 57-4130 SB 57-3123	WINGS - LEADING EDGE AND LEADING EDGE DEVICES - INSPECT SLAT TRACK AT FRONT STOP ATTACHMENT
SB 71-P010	POWER PLANT - FAN COWL - INTRODUCE FASTENER AND NUTPLATE LOCKING MECHANISM FOR MINI-LAP 1
SB PW4ENG 72-251	ENGINE — VANE CLUSTER ASSEMBLY, 4TH STAGE LOW PRESSURE TURBINE (LPT) — INSPECTION FOR SUSPECT VANE CLUSTERS

Double Deck (A380)

Service Bulletin	Title
SB 52-8017	MODIFY WASTE SERVICE PANEL 171AL DOOR TO IMPROVE HANDLING
SB 57-8031	WINGS - TRAILING EDGE AND TRAILING EDGE DEVICES - INSPECTION OF THE PIVOT BRACKETS AT MOVABLE FLAP-TRACK FAIRING 3
SB 57-8032	INSPECT POST-MOD 68729 MOVABLE FLAP TRACK FAIRING No.6, AFT KINEMATIC U-FRAME
SB 57-8041	WINGS - MOVEABLE SURFACE - INSPECTION OF THE PIVOT BRACKETS



	MOVABLE FLAP-TRACK FAIRING 4
SB 57-8045	WINGS - TRAILING EDGE AND TRAILING EDGE DEVICES - INSPECTION OF CONNECTION BETWEEN MID FLAP AND MOVABLE FLAP TRACK FAIRING 3 & 4 - H-BRACKET
SB 57-8059	WINGS - TRAILING EDGE AND TRAILING EDGE DEVICES - FLAP TRACKS No. 3 AND No. 4 REDESIGNED FAIRING BRACKET INSPECTION
SB 57-8071	WINGS - LEADING EDGE - REVISE GOOSE-NECK BRACKETS AND INTERCOSTALS AT DROOP NOSE LOWER PANEL
SB 57-8090	WINGS - TRAILING EDGE AND TRAILING EDGE DEVICES - INSPECTION OF FLAP TRACK FAIRING 3 PIVOT BRACKET SUPPORT RING
SB 57-8091	WINGS - TRAILING EDGE AND TRAILING EDGE DEVICES - REINFORCE FLAP TRACK 6 INTERFACE AGAINST AERODYNAMIC LOADS
SB 57-8092	WING - TE/TE DEVICES - INTRODUCE OPTIMIZED FWD FITTING, AFT ATTACHMENT BRACKET AND STRUCTURE AT WING INTERFERENCE WITH FLAP TRACK 6
SB 57-8093	WINGS - FAIRINGS - REDESIGN FLAP TRACK FAIRING 6 BASED ON NEW AERODYNAMIC SHAPE
SB 57-8094	WINGS - TRAILING EDGE AND TRAILING EDGE DEVICES - OPTIMIZE FAIRING BRACKET AT FLAP TRACK 6
SB 57-8096	WINGS - INSPECTION OF POST-MOD MOVABLE FLAP TRACK FAIRING #6, AFT KINEMATIC ELEMENTS AND INTERFACES OF TRACK BEAM AND FLAP
SB 57-8099	WINGS - FAIRINGS - INSPECTION OF MOVABLE FLAP TRACK FAIRINGS 3 AND 4 AFT KINEMATICS
SB 57-8106	WINGS – MOVABLE FLAP TRACK FAIRING – INSPECTION OF MOVABLE FTF NO. 3 & 4, MID FAIRING AND TAIL CONE U-FRAME
SB 57-8121	WINGS - TRAILING EDGE AND TRAILING EDGE DEVICES - OPTIMIZE SIDE LOAD STAY AND FAIRING BRACKETS AT FLAP TRACK STATION 3 AND TRACK STATION 4
SB 57-8122	WINGS - TRAILING EDGE AND TRAILING EDGE DEVICES - ADAPT COMPRESSION PADS ON TRACK STATION 3
SB 57-8123	WINGS - TRAILING EDGE AND TRAILING EDGE DEVICES - ADAPT COMPRESSION PADS ON TRACK STATION 4
SB 57-8124	WINGS - FAIRINGS - REINFORCE FLAP TRACK FAIRING 3 AGAINST AERODYNAMIC LOADS
SB 57-8129	WINGS - FAIRINGS - REINFORCE FLAP TRACK FAIRING 4 AGAINST AERODYNAMIC LOADS

(Unofficial Translation)

(Unofficial Translation)

Wide Body Family (A300- A310 Family)

Service Bulletin	Title
ISB 25-6188	EQUIPMENT/FURNISHINGS - INSPECTION - MLG BAY FR47 ACCESS PANELS.
SB 29-0027	SECTION 15 - MARKING AND IDENTIFICATION OF FILLING PIPES OF HYDRAULIC GREEN-BLUE-YELLOW TANKS
SB 53-0396	FUSELAGE - NOSE FUSELAGE - CHANGE OF THE MANUFACTURING PROCESS FOR THE AFT NLG DOOR BOLT
SB 53-2142	FUSELAGE - NOSE FUSELAGE - CHANGE OF THE MANUFACTURING PROCESS FOR THE AFT NLG DOOR BOLT
SB 53-6182	FUSELAGE - NOSE FUSELAGE - CHANGE OF THE MANUFACTURING PROCESS FOR THE AFT NLG DOOR BOLT
CF6-80C2 SB 72-1283 or	ENGINE - HIGH PRESSURE TURBINE ROTOR (72-53-00) - NEW STAGE 2 BLADES
CF6-80C2 SB 72-1457 or	ENGINE - HIGH PRESSURE TURBINE ROTOR (72-53-00) - NEW STAGE 2 HPTR BLADE
CF6-80C2 SB 72-1519	ENGINE - HIGH PRESSURE TURBINE ROTOR ASSEMBLY (72-53-00) - INTRODUCTION OF NEW STAGE 2 HPTR BLADE
SB PW4ENG 72-488	ENGINE — DUCT SEGMENT, THIRD STAGE LPT ASSEMBLY — INCORPORATION OF DUCT SEGMENTS WITH INTEGRAL SEAL PLATES; AND REVISED REPAIR DETAILS
SB PW4ENG 72-804	ENGINE — VANE CLUSTER ASSEMBLY, 4TH STAGE LOW PRESSURE TURBINE (LPT) — INSPECTION FOR SUSPECT VANE CLUSTERS
Special Instruction No. 50F-21	PW4000-94" HPT2 Blade Outer Air Seal Borescope Inspection

(Unofficial Translation)

(Appendix A-3)

Bombardier Service Bulletin

Service Bulletin	Title
SB 84-11-46	DHC-CA-54-29 - Nacelle Forward Cowl Door Loss on Takeoff – DHC-8 Series 400
SB 84-27-74	Flight Controls - Rudder Actuator Bracket Nuts - Inspection and Rectification - ModSum 4-114009
SB 84-32-65	DHC-CA-32-65, DHC-CA-32-86, DHC-CA-32-126 - Landing Gear - NLG - Loss of Pivot Pin Retaining Bolt – DHC-8 Series 400
SB 84-32-110	
SB 84-32-145	
SB 84-32-161	Landing Gear - NLG Pivot Pin Retention Bolt - Introduction of NAS6204-14D Bolt Replacing 47205-3 Bolt to Create Assembly 47100-25/47200-33 - ModSum 4-114020
SB 670BA-32-016	RJX-CA-32-19, Loss of MLG Door Lower Panel (FAA SR 08.031, 032)
SB 670BA-32-017	
SB 670BA-32-038	RJX-CA-32-37, CRJ 1000 MLG Door Brush Damaged/ Missing (CRJ1000 only)
SB 670BA-32-042	RJX-CA-32-46, CRJ 700 MLG Door FWD Member Cracking
SB 670BA-32-043	
SB 670BA-32-057	RJX-CA-32-31, NLG Aft door failure
SB 670BA-49-013	RJX-CA-78-3, APU Exhaust Acoustic Liner Separation
SB 670BA-54-007	RJX-CA-54-8, Upper Engine Pylon - Missing Hardware
SB 670BA-78-008	RJX-CA-54-4, Nacelle Transcowl - Inner/Outer Joint Extrusion Cracking
SB 670SH-78-039	Nacelle - Thrust Reverser - Installation of an Omega Seal Retainer Cleat on the Transcowl Assembly
SB 670SH-78-040	Nacelle - Thrust Reverser - Modification Plate Relocation on the Transcowl Assembly
SB 601R-78-021	RJ-CA-78-3, Engine Exhaust Nozzle Departures In-Flight (FAA SR 05.335)
SB 601R-71-030	CAW RJ-CA-71-6: Engine Fan Cowl Departures In-Flight
SB 601R-71-031	
SB 601R-71-034	

(Unofficial Translation)

(Appendix A-4)

Embraer Service Bulletin

Service Bulletin	Title
SB 170-36-0028	PNEUMATIC - PRECOOLER INLET DUCT REPLACEMENT
SB 170-53-0074	FUSELAGE - INSPECTION OF APU OIL COOLER SCOOP FOR DAMAGE AND PROPER RETENTION
SB 170-53-0146	REPLACEMENT OF THE RAM-AIR INLET-DOOR ASSEMBLY WITH FIXED RAM-AIR INLETS
SB 170-54-0016	NACELLES/PYLONS - PYLON DRAIN TUBE REPLACEMENT
SB 170-55-0010	STABILIZERS - INSTALLATION OF DIMPLED WASHERS IN VERTICAL STABILIZER AERODYNAMIC SEALS ATTACHING PARTS
SB 170-57-0074	WINGS - POLYURETHANE TAPE INSTALLATION ON THE GLASS TRANSPARENCY OF THE INTEGRATED ANTI-COLLISION AND POSITION LIGHTS
SB 170-21-0068	AIR CONDITIONING - RAM AIR INLET DOOR - MISSING HARDWARE INSPECTION
SB 190-53-0036	FUSELAGE - INSPECTION OF APU OIL COOLER SCOOP FOR DAMAGE AND PROPER RETENTION
SB 190-21-0061	AIR CONDITIONING - RAM AIR INLET DOOR - MISSING HARDWARE INSPECTION
SB 190-57-0058	WINGS - POLYURETHANE TAPE INSTALLATION ON THE GLASS TRANSPARENCY OF THE INTEGRATED ANTI-COLLISION AND POSITION LIGHTS

(Unofficial Translation)

(Appendix A-5)

SAAB Service Bulletin

Service Bulletin	Title
SB340-11-012	PLACARDS AND MARKINGS - PLACARD FOR PROPER LOCKING OF ENGINE HINGE COWLING
SB340-29-023	HYDRAULIC POWER - MAIN HYDRAULIC SYSTEM - REPLACEMENT OF THE HYDRAULIC ACCUMULATORS
SB340-29-024	HYDRAULIC POWER - MAIN HYDRAULIC SYSTEM - INTRODUCTION OF NEW HYDRAULIC ACCUMULATORS
SB340-30-075	ICE & RAIN PROTECTION - WINDSHIELD WIPERS - INSPECTION OF THE WIPER ARM ASSEMBLY
SB340-32-067	LANDING GEAR - MAIN LANDING GEAR - NEW WHEEL AXLE NUTS
SB340-32-076	LANDING GEAR - BRAKE ASSEMBLY WITH ATTACHED AXLE SPACER
SB340-32-124	LANDING GEAR - INSTALLATION OF NEW RETRACT ACTUATOR BRACKET ATTACHMENT BOLT (RABAB)
SB340-32-133	LANDING GEAR - SHOCK STRUT - INSPECT AXLE ADAPTOR DOWEL HOLES
SB340-55-030	STABILIZERS - RUDDER - REPLACEMENT OF THE RUDDER STOP
SB340-71-035	POWERPLANT - INSPECTION OF AVIBANK LATCH ON NACELLE FWD COWLING DOORS 7271110-501/601 AND INSTALLATION OF NEW LATCH TRIGGER
SB340-71-060	POWERPLANT - FORWARD ENGINE COWL DOOR - INSPECTION OF FRAMES AND ANGLES ON THE FORWARD ENGINE COWL DOORS
SB2000-11-002	PLACARDS AND MARKINGS - PLACARD FOR PROPER LOCKING OF ENGINE HINGED COWLING
SB2000-29-024	HYDRAULIC POWER - MAIN HYDRAULIC SYSTEM - INTRODUCTION OF NEW HYDRAULIC ACCUMULATORS
SB2000-32-015	LANDING GEAR - MLG DOOR - PREVENT LOOSEING OF BOLTS
SB2000-32-025	LANDING GEAR - MLG DOOR - PREVENT LOOSEING OF BOLTS
SB2000-32-028	LANDING GEAR - REAR MLG DOOR - MODIFY HINGE FITTING
SB2000-55-010	STABILIZERS - INSTALLATION OF REINFORCEMENT ON THE RUDDER FAIRING STRUCTURE
SB2000-56-002	WINDOWS - REPLACEMENT OF THE WINDSHIELD WIPER SPOILER
SB2000-56-003	WINDOWS - INSPECTION OF WINDSHIELD WIPER SPOILER

(Unofficial Translation)

(Appendix A-6)

ATR Service Bulletin

Service Bulletin	Title
ATR42-11-0025	Placards and Markings - Main landing gear doors - Install "NO STEP" markings
ATR42-11-0028	Placards and Markings - Nacelles - Installation of exterior placards on lateral cowls
ATR42-32-0048	Landing Gear - NLG - Axle replacement
ATR42-53-0082	FUSELAGE - WING-TO-FUSELAGE FAIRING PANELS AND UPPER COWLS - ADD CUP WASHERS UNDER THE FASTENERS AND CHANGE PLIER ATTACH MATERIAL.
ATR42-53-0123	FUSELAGE - KARMAN PANEL 291BL INSPECTION.
ATR42-53-0125	WING/FUSELAGE - KARMANS – REPLACE KARMAN PANEL 191BL.
ATR42-54-0030	Nacelles/Pylons - Oil cooler - Replacement of rear flaps
ATR42-54-0031	Nacelles/Pylons - Oil cooler - Replacement of rear flaps
ATR72-11-1023	Placards and Markings - Main landing gear doors - Install "NO STEP" markings
ATR72-11-1026	Placards and Markings - Nacelles - Installation of exterior placards on lateral cowls
ATR72-32-1047	LANDING GEAR - NLG - AXLE REPLACEMENT.
ATR72-52-1074	Doors - MLG folding door - Improvement of attachment device
ATR72-52-1083	Doors - MLG doors hinges - Install axle locking device
ATR72-53-1044	FUSELAGE - WING-TO-FUSELAGE FAIRING PANELS AND UPPER COWLS - ADD CUP WASHERS UNDER THE FASTENERS AND CHANGE PLIER ATTACH MATERIAL.
ATR72-57-1005	WINGS - INNER SLAT AND LOWER SURFACE REAR PARTS - MODIFY HINGE PIN STOP.
ATR72-57-1044	Wings - LH and RH flap support arms at rib 13 - Replace fairing omega supports

(Unofficial Translation)

(Appendix B)

Other Measures

Item	Measures
1	<p>(Completely discharge excess fluids in the potable water and lavatory waste service pipes)</p> <p>Call the attention of the maintenance staff and service contractors to completely discharge excess fluids in the potable water and lavatory waste service pipes after servicing. In addition, confirm that the panels of the potable water and lavatory waste service doors are properly closed.</p>
2	<p>(Inspection of the potable water service and drain system)</p> <p>Inspect for possible leakage as well as the function of the potable water service and drain system on a regular basis. In particular, conduct regular cleaning of the drain valves on the fuselage, which are prone to cause ice accumulation.</p>
3	<p>(Removal of rain water, snow and others during cargo loading)</p> <p>During cargo loading, remove rainwater pool or snow pile on top of the cargo. In addition, ensure that there is no pool formed by water and others around cargo loading doors and cargo compartments.</p>