SERVICE BULLETIN
REVISION TRANSMITTAL SHEET

SERVICE BULLETIN 601R–54–006

SUBJECT: Nacelle/Pylons – Spars and Firewall – Inspection of Pylons Structure at Fuselage Station 654.50 and 672.20

This page transmits:
Revision A of Service Bulletin 601R–54–006, dated May 24/2023.

The changes in this revision have no effect on aircraft that have had this service bulletin incorporated.

Reason:

Revised Planning Information, paragraph 1., to:

Add in the Description section that the damage report form needs to be filled and sent only if damage is found.

Change the revision level of one document in the References section.

Revised Accomplishment Instructions, paragraph 2., to:

Add information to clarify that a damage report form is to be completed only if damage is found.

Remove a note that is no longer applicable.

This revision also includes small editorial changes that do not have an effect on the technical content.

Instructions:

Discard the copy of Service Bulletin 601R–54–006, dated Sep 13/2022. Replace with the copy attached.

Service Bulletin History:

Initial issue, dated Sep 13/2022

SERVICE BULLETIN

Technical Publications

THIS SERVICE BULLETIN IS SENT TO EACH OPERATOR. IF THE OPERATOR HAS LEASED AIRCRAFT, SEND THIS SERVICE BULLETIN TO THE LESSEE. IF THE OPERATOR HAS SOLD AIRCRAFT OR TRANSFERRED SPARES IN THE LAST SIX MONTHS, SEND THIS SERVICE BULLETIN TO THE NEW OWNER, UNLESS CONFIRMATION WAS RECEIVED THAT MHIRJ HAS INCLUDED THE NEW OPERATOR ON THE DISTRIBUTION LIST.

ATA SYSTEM: 54—50 NUMBER: 601R—54—006

SUBJECT: Nacelle/Pylons — Spars and Firewall — Inspection of Pylons Structure at Fuselage Station 654.50 and 672.20

1. PLANNING INFORMATION

A. Effectivity

Service Bulletin: CL—600—2B19 CRJ Series aircraft with serial numbers 7031, 7045, 7069, 7078, 7089, 7102, 7110, 7168, 7188, 7203, 7212, 7217,7229, 7231, 7236, 7243, 7257, 7258, 7269, 7271, 7276, 7284, 7290, 7302, 7304, 7306, 7310, 7328, 7339, 7342, 7355, 7358, 7360, 7401, 7404, 7437, 7441, 7448, 7458, 7474, 7476, 7479, 7495, 7502, 7503, 7517, 7527, 7530, 7532, 7548, 7551, 7574, 7575, 7579, 7582, 7586, 7588, 7599, 7600, 7606, 7609, 7623, 7632, 7648, 7657, 7658, 7664, 7667, 7674, 7681 thru 7683, 7687, 7715, 7727, 7743, 7748 thru 7750, 7758, 7760, 7769, 7780, 7810, 7817, 7818, 7821, 7822, 7857, 7859, 7871, 7873, 7889, 7892, 7895, 7909, 7912, 7913, 7920, 7922, 7923, 7926, 7929, 7932, 7935, 7937, 7954, 7961, 7964 and 8011.

Production: There is no production effectivity.

NOTE: The instructions in this service bulletin are only applicable to the systems and parts installed at the time of delivery of the aircraft or as changed by MHIRJ service bulletins. Before you do this service bulletin, examine all Supplemental Type Certificates (STCs), and Supplemental Type Approvals (STAs) or equivalent action changes to make sure you can complete this service bulletin.

B. Reason

(1) Condition

Bleed air duct from anti–ice system found with missing part of the insulation/heat shield in the pylon area. This condition results into a direct heat radiation from the bare duct skin to the pylon area. Exposure to elevated temperatures on the structure has an influence on the behavior and stress level encountered in the area concerned.

(2) Evidence

Missing parts of the insulation/heat shield on the bleed duct from the wing anti–ice system in the pylon area.

(3) Objective/Benefit

This service bulletin gives the procedure to do a one time inspection to examine the spars and firewall for signs of corrosion, cracks, abnormal waviness and other type of damage.

C. Description

The left and right pylon access panels are removed. A visual inspection is done on spars at FS654.50, FS672.20 and on the firewall. If damage is found, a damage report form is filled and sent to MHIRJ Technical Help Desk (THD). The pylon access panels are installed.

D. Compliance

MHIRJ recommends that this service bulletin be done at no more than 6600 flight hours or no later than 48 months from the release date on this service bulletin, whichever comes first, unless otherwise directed by the airworthiness authority of the operator.

NOTE: If it is not possible to complete all the instructions in this service bulletin because of the configuration of the aircraft, speak with a representative of MHIRJ in the CRC at 450–990–7CRC (450–990–7272) direct, 1–833–990–7CRC (1–833–990–7272) toll free for North America or +1–450–990–7CRC (+1–450–990–7272) for international callers or e-mail at thd.crj@MHIRJ.com for analysis and to get an approved disposition to complete this service bulletin.

This service bulletin does not affect Airworthiness Limitations (AWLs) or Damage Tolerance Inspections (DTIs).

E. Approval

The technical content of this service bulletin has been approved under the authority of the TCCA Design Approval Organization No: DAO #20–Q–01.

F. Manpower

The man-hours given below are estimates for direct labor done by an experienced crew on an aircraft prepared for maintenance.

These estimates do not include the time necessary for:

—Administrative functions such as planning, liaising, familiarization, and report writing.

—Non-productive elapsed time such as rest time, having meals, and crew shift changes.

—Elapsed time such as for paint to dry, sealant to cure, and fuel tank venting.

—Preparation for modification (unless specified in the Accomplishment Instructions) such as cleaning and getting parts, tools, consumables, and ground equipment.

—Quality assurance inspections, troubleshooting and/or correction of discrepancies found when a task is done.

—All other activities that are not considered by MHIRJ as directly related to the accomplishment of this procedure.

NOTE: For on-site labor assistance, please speak with a Fleet Services representative for an estimate. Call the Fleet Services Team through the CRC at 450—990—7CRC (450—990—7272) direct, 1—833—990—7CRC (1—833—990—7272) toll free for North America or +1—450—990—7CRC (+1—450—990—7272) for international callers or e-mail at thd.crj@MHIRJ.com.

It will take an estimated 6.0 man-hours to complete this service bulletin. The man-hours are divided in the table that follows (elapsed cure time is not included in the man-hour summary given above):

TASK	MAN-HOURS
(1) Job Set-Up	2.0
(2) Procedure	2.0
(3) Test	N/A
(4) Job Close-Out	2.0

NOTE: The man-hours for the procedure do not include the hours to replace damaged parts.

G. Material — Price and Availability

There are no kits for this service bulletin.

H. Tooling — Price and Availability

There are no tool kits for this service bulletin. Refer to paragraph 3.C. for a list of special tools and equipment for this service bulletin.

I. Weight and Balance

Not changed.

J. Electrical Load Data

Not changed.

K. References

Refer to the SB Introduction document for definition or explanation of service bulletin content.

For MHIRJ reference only: Restriction and/or Special Instruction (RSI) C—A314, Revision A.

For MHIRJ reference only: 7464.

L. Other Publications Affected

None.

M. Relationship Chart

Not applicable.

2. ACCOMPLISHMENT INSTRUCTIONS

Reference Information

REFERENCE	DESIGNATION
AMM 54–60–01–000–802	Removal of the Forward Mount Lower–Access–Panels
AMM 54–60–01–000–803	Removal of the Forward Mount Upper–Access–Panels
AMM 54–60–01–000–804	Removal of the Lines Disconnect Inboard–Access–Panels
AMM 54–60–01–000–805	Removal of the Lines Disconnect Upper–Access–Panels
AMM 54–60–01–000–806	Removal of the Rear Mount Inboard–Access–Panels
AMM 54–60–01–000–808	Removal of the Lines Disconnect Outboard–Access–Panels
AMM 54–60–01–000–809	Removal of the Rear Mount Center–Access–Panels
AMM 54–60–01–400–802	Installation of the Forward Mount Lower–Access–Panels
AMM 54–60–01–400–803	Installation of the Forward Mount Upper–Access–Panels
AMM 54–60–01–400–804	Installation of the Lines Disconnect Inboard–Access–Panels
AMM 54–60–01–400–805	Installation of the Lines Disconnect Upper–Access–Panels
AMM 54–60–01–400–806	Installation of the Rear Mount Inboard–Access–Panels
AMM 54–60–01–400–808	Installation of the Lines Disconnect Outboard–Access–Panels

REFERENCE	DESIGNATION
AMM 54–60–01–400–809	Installation of the Rear Mount Center–Access–Panels
SRM 51–13–01	Defect and Damage Repair Request–Report Procedure
SRM 51–26–00	Cleaning

A. Job Set-Up

NOTE: The steps in the Job Set-Up section of this service bulletin are recommended steps. The steps give a recommendation to get access to the work area. This recommendation is to give a safe work area and to minimize possible damage to surrounding aircraft parts. Alternative steps can be used at the operator discretion.

For Aircraft 7031, 7045, 7069, 7188, 7212, 7217, 7243, 7258, 7269, 7271, 7276, 7284, 7290, 7302, 7310, 7328, 7339, 7342, 7355, 7358, 7401, 7437, 7441, 7448, 7458, 7476, 7479, 7495, 7517, 7530, 7532, 7548, 7579, 7582, 7586, 7588, 7599, 7606, 7609, 7623, 7648, 7657, 7667, 7681, 7687, 7715, 7727, 7743, 7748, 7750, 7758, 7780, 7818, 7821, 7822, 7892, 7895, 7909, 7913, 7920, 7922, 7923, 7926, 7932, 7937 and 7964

(1) Remove the left pylon access panels that follow:

PANEL	NAME	REFERENCE
412AB	Forward Mount Lower–Access–Panel	54–60–01–000–802
412BB	Lines Disconnect Inboard–Access Panel	54–60–01–000–804
412CB	Rear Mount Inboard–Access–Panel	54–60–01–000–806
412DB	Lines Disconnect Outboard–Access–Panel	54–60–01–000–808
412EB	Rear Mount Center–Access–Panel	54–60–01–000–809

NOTE: If required, the pylon access panels 412AT and 412BT can be removed to have a view from the top of the pylon (refer to AMM 54–60–01–000–803 and 54–60–01–000–805).

For Aircraft 7045, 7078, 7089, 7102, 7110, 7168, 7203, 7212, 7217, 7229, 7231, 7236, 7257, 7258, 7269, 7271, 7276, 7290, 7302, 7304, 7306, 7310, 7328, 7342, 7355, 7358, 7360, 7401, 7404, 7441, 7474, 7502, 7503, 7527, 7548, 7551, 7574, 7575, 7579, 7582, 7586, 7599, 7600, 7632, 7658, 7664, 7674, 7682, 7683, 7715, 7748, 7749, 7758, 7760, 7769, 7810, 7817, 7818, 7821, 7822, 7857, 7859, 7871, 7873, 7889, 7892, 7912, 7929, 7935, 7954, 7961 and 8011

(2) Remove the right pylon access panels that follow:

PANEL	NAME	REFERENCE
422AB	Forward Mount Lower–Access–Panel	54–60–01–000–802
422BB	Lines Disconnect Inboard–Access Panel	54–60–01–000–804
422CB	Rear Mount Inboard–Access–Panel	54–60–01–000–806
422DB	Lines Disconnect Outboard–Access–Panel	54–60–01–000–808
422EB	Rear Mount Center–Access–Panel	54–60–01–000–809

NOTE: If required,the pylon access panels 422AT and 422BT can be removed to have a view from the top of the pylon (refer to AMM 54–60–01–000–803 and 54–60–01–000–805).

For all aircraft

B. Procedure

(1) If it is not possible to complete all the instructions in this service bulletin because of the configuration of the aircraft, speak with a representative of MHIRJ in the CRC at 450–990–7CRC (450–990–7272) direct, 1–833–990–7CRC (1–833–990–7272) toll free for North America or +1–450–990–7CRC (+1–450–990–7272) for international callers or e-mail at thd.crj@MHIRJ.com for analysis and to get an approved disposition to complete this service bulletin.

For Aircraft 7031, 7045, 7069, 7188, 7212, 7217, 7243, 7258, 7269, 7271, 7276, 7284, 7290, 7302, 7310, 7328, 7339, 7342, 7355, 7358, 7401, 7437, 7441, 7448, 7458, 7476, 7479, 7495, 7517, 7530, 7532, 7548, 7579, 7582, 7586, 7588, 7599, 7606, 7609, 7623, 7648, 7657, 7667, 7681, 7687, 7715, 7727, 7743, 7748, 7750, 7758, 7780, 7818, 7821, 7822, 7892, 7895, 7909, 7913, 7920, 7922, 7923, 7926, 7932, 7937 and 7964

NOTE: The steps that follow are applicable for the spars and firewall on the left pylon.

Refer to Figure 1.

(2) Clean the forward and aft surfaces of the left pylon spar FS654.50 (1) (refer to SRM 51–26–00).

(3) If the inspection surfaces are painted, do as follows:

(a) Look at the paint condition for signs of cracks and corrosion in the component material.

(b) Remove the paint and/or primer only if there is deterioration or local damage (refer to SRM 51–26–00).

(4) Clean the forward and aft surfaces of the left pylon spar FS672.20 (2) (refer to SRM 51–26–00).

(5) If the inspection surfaces are painted, do as follows:

(a) Look at the paint condition for signs of cracks and corrosion in the component material.

(b) Remove the paint and/or primer only if there is deterioration or local damage (refer to SRM 51–26–00).

(6) Clean the inboard and outboard surfaces of the left pylon firewall assembly (3) (refer to SRM 51–26–00).

(7) If the inspection surfaces are painted, do as follows:

(a) Look at the paint condition for signs of cracks and corrosion in the component material.

(b) Remove the paint and/or primer only if there is deterioration or local damage (refer to SRM 51–26–00).

(8) Do a detailed visual inspection on the structure assembly of the forward and aft sides of the left pylon spar FS654.50 (1) as follows:

(a) Visually inspect for all signs of corrosion or cracks.

(b) Visually inspect for all signs of damaged fasteners.

(c) Visually inspect for all signs of web waviness or flatness.

(9) Do a detailed visual inspection on the structure assembly of the forward and aft sides of the left pylon spar FS672.20 (2) as follows:

(a) Visually inspect for all signs of corrosion or cracks.

(b) Visually inspect for all signs of damaged fasteners.

(c) Visually inspect for all signs of web waviness or flatness.

(10) Do a detailed visual inspection on the structure assembly of the left pylon firewall (3) as follows:

(a) Visually inspect for all signs of corrosion or cracks.

(b) Visually inspect for all signs of damaged fasteners.

(c) Visually inspect for all signs of web waviness or flatness.

For Aircraft 7045, 7078, 7089, 7102, 7110, 7168, 7203, 7212, 7217, 7229, 7231, 7236, 7257, 7258, 7269, 7271, 7276, 7290, 7302, 7304, 7306, 7310, 7328, 7342, 7355, 7358, 7360, 7401, 7404, 7441, 7474, 7502, 7503, 7527, 7548, 7551, 7574, 7575, 7579, 7582, 7586, 7599, 7600, 7632, 7658, 7664, 7674, 7682, 7683, 7715, 7748, 7749, 7758, 7760, 7769, 7810, 7817, 7818, 7821, 7822, 7857, 7859, 7871, 7873, 7889, 7892, 7912, 7929, 7935, 7954, 7961 and 8011

NOTE: The steps that follow are applicable for the spars and firewall on the right pylon.

Refer to Figure 1.

(11) Clean the forward and aft surfaces of the right pylon spar FS654.50 (1) (refer to SRM 51–26–00).

(12) If the inspection surfaces are painted, do as follows:

(a) Look at the paint condition for signs of cracks and corrosion in the component material.

(b) Remove the paint and/or primer only if there is deterioration or local damage (refer to SRM 51–26–00).

(13) Clean the forward and aft surfaces of the right pylon spar FS672.20 (2) (refer to SRM 51–26–00).

(14) If the inspection surfaces are painted, do as follows:

(a) Look at the paint condition for signs of cracks and corrosion in the component material.

(b) Remove the paint and/or primer only if there is deterioration or local damage (refer to SRM 51–26–00).

(15) Clean the inboard and outboard surfaces of the right pylon firewall assembly (3) (refer to SRM 51–26–00).

(16) If the inspection surfaces are painted, do as follows:

(a) Look at the paint condition for signs of cracks and corrosion in the component material.

(b) Remove the paint and/or primer only if there is deterioration or local damage (refer to SRM 51–26–00).

(17) Do a detailed visual inspection on the structure assembly of the forward and aft sides of the right pylon spar FS654.50 (1) as follows:

(a) Visually inspect for all signs of corrosion or cracks.

(b) Visually inspect for all signs of damaged fasteners.

(c) Visually inspect for all signs of web waviness or flatness.

(18) Do a detailed visual inspection on the structure assembly of the forward and aft sides of the right pylon spar FS672.20 (2) as follows:

(a) Visually inspect for all signs of corrosion or cracks.

(b) Visually inspect for all signs of damaged fasteners.

(c) Visually inspect for all signs of web waviness or flatness.

(19) Do a detailed visual inspection on the structure assembly of the right pylon firewall (3) as follows:

(a) Visually inspect for all signs of corrosion or cracks.

(b) Visually inspect for all signs of damaged fasteners.

(c) Visually inspect for all signs of web waviness or flatness.

For all aircraft

(20) If damage is found, fill the damage report form for Fuselage Skin damage (refer to SRM 51–13–01).

NOTE: All the damages found during the visual inspection must be reported in the damage report.

(21) If damage is found, send a copy of the damage report form to the Customer Response Center (CRC) at the following e–mail address: thd.crj@MHIRJ.com.

NOTE: MHIRJ will inform if additional action is recommended.

(22) If damage is found outside the scope of this service bulletin, speak with a CRC representative at 450–990–7CRC (450–990–7272) direct, 1–833–990–7CRC (1–833–990–7272) toll free for North America or +1–450–990–7CRC (+1–450–990–7272) for international callers or send an e-mail at thd.crj@MHIRJ.com for a disposition.

C. Job Close-Out

NOTE: The steps in the Job Close-Out section of this service bulletin, except for the return-to-service tests, are recommended steps. The steps give a recommendation to install components removed during the Job Set-Up. This recommendation is to make sure that the aircraft is safe and ready to return to service. Alternative steps can be used at the operator discretion.

(1) Remove all tools, equipment, and unwanted materials from the work area.

For Aircraft 7031, 7045, 7069, 7188, 7212, 7217, 7243, 7258, 7269, 7271, 7276, 7284, 7290, 7302, 7310, 7328, 7339, 7342, 7355, 7358, 7401, 7437, 7441, 7448, 7458, 7476, 7479, 7495, 7517, 7530, 7532, 7548, 7579, 7582, 7586, 7588, 7599, 7606, 7609, 7623, 7648, 7657, 7667, 7681, 7687, 7715, 7727, 7743, 7748, 7750, 7758, 7780, 7818, 7821, 7822, 7892, 7895, 7909, 7913, 7920, 7922, 7923, 7926, 7932, 7937 and 7964

(2) Install the access panels that follow:

PANEL	NAME	REFERENCE
412AB	Forward Mount Lower–Access–Panel	54–60–01–400–802
412BB	Lines Disconnect Inboard–Access Panel	54–60–01–400–804
412CB	Rear Mount Inboard–Access–Panel	54–60–01–400–806
412DB	Lines Disconnect Outboard–Access–Panel	54–60–01–400–808
412EB	Rear Mount Center–Access–Panel	54–60–01–400–809

NOTE: If the pylon access panels 412AT and 412BT have been removed, they need to be installed (refer to AMM 54–60–01–400–803 and 54–60–01–400–805).

For Aircraft 7045, 7078, 7089, 7102, 7110, 7168, 7203, 7212, 7217, 7229, 7231, 7236, 7257, 7258, 7269, 7271, 7276, 7290, 7302, 7304, 7306, 7310, 7328, 7342, 7355, 7358, 7360, 7401, 7404, 7441, 7474, 7502, 7503, 7527, 7548, 7551, 7574, 7575, 7579, 7582, 7586, 7599, 7600, 7632, 7658, 7664, 7674, 7682, 7683, 7715, 7748, 7749, 7758, 7760, 7769, 7810, 7817, 7818, 7821, 7822, 7857, 7859, 7871, 7873, 7889, 7892, 7912, 7929, 7935, 7954, 7961 and 8011

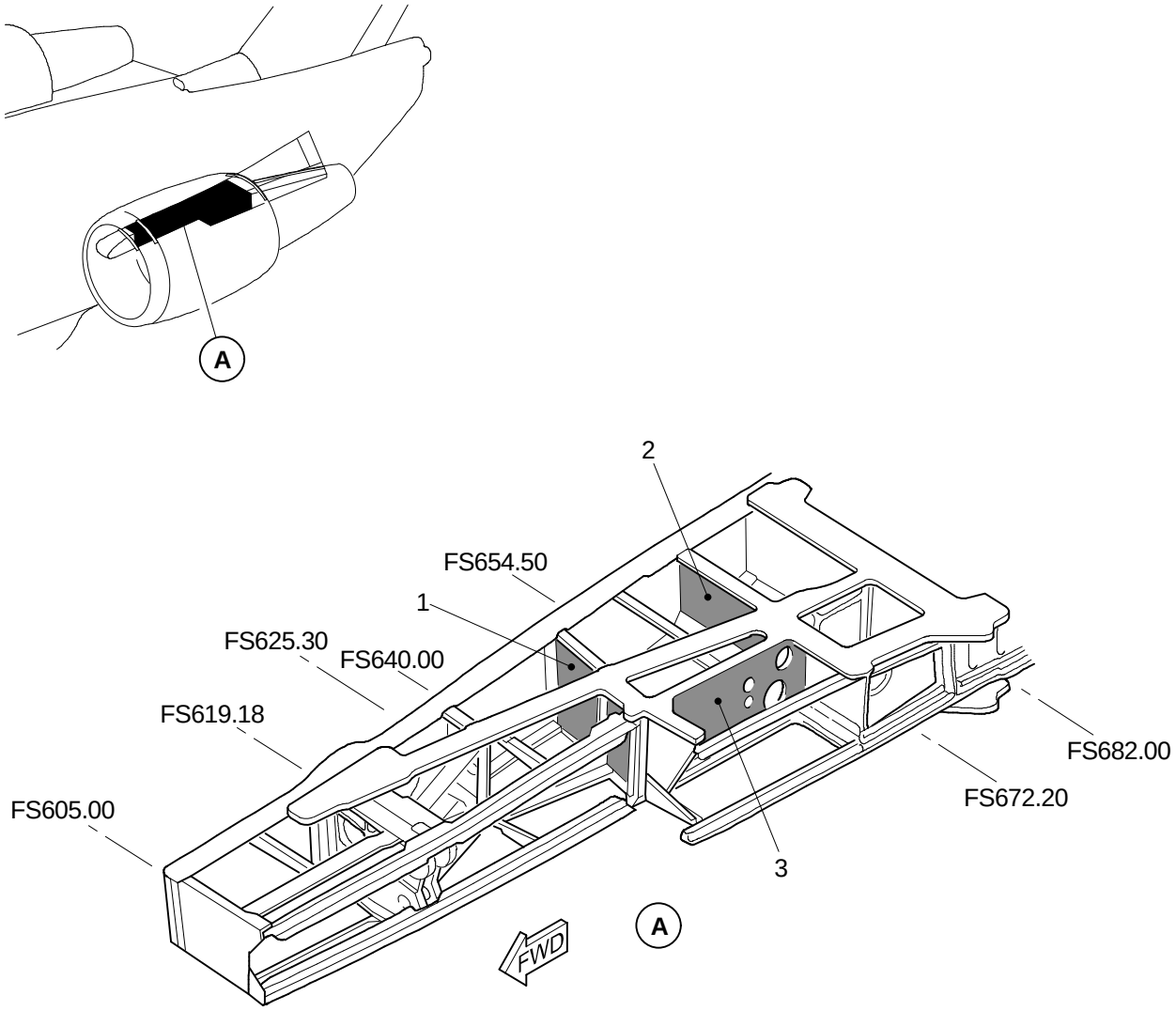
(3) Install the access panels that follow:

PANEL	NAME	REFERENCE
422AB	Forward Mount Lower–Access–Panel	54–60–01–400–802
422BB	Lines Disconnect Inboard–Access Panel	54–60–01–400–804
422CB	Rear Mount Inboard–Access–Panel	54–60–01–400–806
422DB	Lines Disconnect Outboard–Access–Panel	54–60–01–400–808
422EB	Rear Mount Center–Access–Panel	54–60–01–400–809

NOTE: If the pylon access panels 422AT and 422BT have been removed, they need to be installed (refer to AMM 54–60–01–400–803 and 54–60–01–400–805).

For All Aircraft

(4) When this service bulletin is completed, make this entry in the applicable logbooks: “Service Bulletin 601R–54–006, Revision A, Nacelle/Pylons–Spars and Firewall–Inspection of Pylons Structure at the Fuselage Station 654.50 and 672.20, incorporated.”



LEGEND

1. Spar FS654.50.
2. Spar FS672.20.
3. Firewall.

NOTE

Left side shown,
right side opposite.

rsb601r54006_001.cgm. gd. jun27/2022

Pylon—Inspection Area—Spars and Firewall
Figure 1

3. MATERIAL INFORMATION

A. Kit Information

None.

B. Consumable Information

For a list of consumables, refer to the different tasks that are given as references in this service bulletin.

C. Special Tools and Equipment

For a list of special tools and equipment, refer to the different tasks that are given as references in this service bulletin.

D. Disposition of Parts

Not applicable.