

JIC: A320-29-11-01 / 00

Title: CFM56-5B INSPECTION OF HYDRAULIC HOSE/TUBE AND CLAMPS

Area:

ATA: 29-11

Special Codes: EN

A/C: BIV

Job Instruction Card for - / -

**ITEM ONE - INSPECTION OF HYDRAULIC HOSE/TUBE**

**Panels:** none  
**Zones:** none  
**References:** VSB: 5AB\_RA32029-011\_R04\_15Jun10.pdf

**PERF. JIC A320-29-11-01, Rev. 00 HEADER - APPROVAL DATA**

	MECH	INSP
Prepared by: 11905; 21.11.2016 Approved by: 9709; 21.11.2016		

**STEP 2 - GENERAL INFORMATION**

	MECH	INSP
<p>WARNING: OBEY ALL HYDRAULIC SAFETY PROCEDURES</p> <p>WARNING: MAKE SURE THE ENGINE SHUTDOWN OCCURRED NOT LESS THAN FIVE (5) MINUTES BEFORE YOU CARRY OUT THIS PROCEDURE.</p> <p>WARNING: DO NOT TOUCH THE HYDRAULIC SYSTEM COMPONENTS OR ENGINE COMPONENTS IMMEDIATELY AFTER THE ENGINE IS SHUT DOWN. THE ENGINE COMPONENTS CAN STAY HOT FOR UP TO ONE HOUR AND CAN CAUSE INJURY.</p> <p>WARNING: WEAR GOGGLES, INSULATED GLOVES AND OTHER PROTECTIVE CLOTHES. HOT OIL CAN BURN YOUR EYES AND SKIN. SEEK MEDICAL AID IF OIL TOUCHES YOUR EYES OR SKIN.</p> <p>WARNING: DO NOT GET ENGINE OIL ON YOUR SKIN FOR A LONG PERIOD OF TIME. FLUSH THE OIL FROM YOUR SKIN WITH WATER. THE OIL IS POISONOUS AND CAN GO THROUGH THE SKIN AND INTO THE BODY.</p> <p>CAUTION: DO NOT LET HYDRAULIC FLUID, ENGINE FUEL OR ENGINE OIL FALL ON THE ENGINE. UNWANTED HYDRAULIC FLUID, ENGINE FUEL, OR ENGINE OIL MUST BE REMOVED IMMEDIATELY WITH A CLEAN LINT FREE CLOTH. THE FLUIDS CAN CAUSE DAMAGE TO THE SURFACE PROTECTION AND TO SOME PARTS.</p>		

**STEP 3 - ENGINE DATA**

	MECH	INSP		
<p>FILL IN THE TABLE BELOW:</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">ENGINE P/N:</td> <td style="width: 50%;">ESN:</td> </tr> </table>	ENGINE P/N:	ESN:		
ENGINE P/N:	ESN:			

**STEP 4 - PREPARATION**

	MECH	INSP
<p>(1) OPEN THE LEFT FAN COWL DOOR REFER TO AMM TASK 71-13-00-010-040</p> <p>(2) DEPRESSURIZE THE RELEVANT HYDRAULIC SYSTEM AND RESERVOIR. INSTALL SAFETY PRECAUTIONS. REFER TO AMM CHAPTER 29-10-00 PB 201, 29-14-00 PB 201 AND 29-11-49 PB 601.</p>		

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**STEP 5 - AE707418-1 HYDRAULIC SUCTION HOSE/TUBE**

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NOTE: FOR THE HOSE/TUBE THAT HAS NO ALLOWABLE DAMAGE CRITERIA OF THE METALLIC SECTION, REPLACE WORN PART AND REPORT THE DAMAGE DESCRIPTION TO ENGINE GROUP OF ROSSIYA ENGINEERING DEPARTMENT ENGINE@ROSSIYA-AIRLINES.COM

LOCATE AE707418-1 HYDRAULIC SUCTION HOSE/TUBE ON LEFT SIDE OF THE ENGINE FAN CASE (SEE FIGURE 3, SHEET 1)

NOTE: DURING CLAMP INSTALLATION ENSURE THAT HOSE/TUBE ASSEMBLY IS PROPERLY ALIGNED TO PREVENT PRELOAD BY TIGHTENING THE BOLTS LIGHTLY DURING THE INITIAL INSTALLATION. AFTER ENSURING THAT THERE IS NO PRELOAD, TORQUE THE BOLTS TO THEIR PROPER VALUE

IN THIS SEQUENCE (3, 4, 2) SEE FIGURE 3 SHEET 1.

A) REMOVE MS9556-08 BOLT, NAS1149C0332R WASHER AND C10GT3-20 CLAMP ASSEMBLIES THAT ATTACH AE707418-1 HYDRAULIC SUCTION HOSE/TUBE AT THE UPPER MID BRACKET. DISCARD THE C10GT3-20 CLAMP ASSEMBLIES.

B) REMOVE MS9556-07 BOLT, THE NAS1805-3P NUT, TWONAS1149C0332R AND NAS1149C0363R WASHERS AND C10GT3-20 CLAMP ASSEMBLY THAT ATTACH AE707418-1 HYDRAULIC SUCTION HOSE/TUBE TO THE LOWER MID BRACKET. DISCARD THE C10GT3-20 CLAMP ASSEMBLIES.

C) REMOVE MS9556-07 BOLT, NAS1149C0332R WASHER, AND C10GT3-20 CLAMP ASSEMBLY THAT ATTACH AE707418-1 HYDRAULIC SUCTION HOSE/TUBE TO THE LOWER BRACKET. DISCARD THE C10GT3-20 CLAMP ASSEMBLIES. (SEE FIGURE 2 FOR CLAMP ASSY ARRANGEMENT)

D) INSPECT THE HYDRAULIC SUCTION HOSE/TUBE ASSEMBLY AT THE CLAMP POSITIONS FOR CHAFING OR DAMAGE. REFER TO TABLE # 1 FOR DAMAGE WEAR LIMITS (THE MAXIMUM ALLOWED DAMAGE DEPTH IS 10% OF THE WALL THICKNESS). PLEASE PUT APPROPRIATE MARK BELOW:

NO FINDINGS \_\_\_\_\_ FINDINGS \_\_\_\_\_

E) FOR DAMAGE ASSESSMENT OF HOSE SECTION AREA REFER TO AMM CHAPTER 29-11-49 INSPECTION/CHECK.

F) IF THE DAMAGE IS MORE THAN THE ALLOWABLE LIMITS, REPLACE THE HYDRAULIC PRESSURE HOSE/TUBE ASSEMBLY PER AMM CHAPTER 29-11-49 AND DO NOT PERFORM ITEMS (G), (H) AND (I).

G) INSTALL NEW C10GT3-20 CLAMP ASSEMBLY, MS9556-08 BOLT AND NAS1149C0332R WASHER THAT ATTACH AE707418-1 HYDRAULIC SUCTION HOSE/TUBE ASSEMBLY TO THE UPPER MID BRACKET. TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 - 3.9 N.M)

H) INSTALL NEW C10GT3-20 CLAMP ASSEMBLY, MS9556-07 BOLT, AND TWO NAS1149C0332R AND NAS1149C0363R WASHERS THAT ATTACH AE707418-1 HYDRAULIC SUCTION HOSE/TUBE TO THE LOWER MID BRACKET. TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 - 3.9 N.M).

NOTE: CHECK THAT THE CORRECT (THIN) WASHER NAS1149C0363R IS INSTALLED AT THIS LOCATION. (LOWER MID BRACKET – SUCTION HOSE TUBE).

I) INSTALL NEW C10GT3-20 CLAMP ASSEMBLY, MS9556-07 BOLT AND NAS1149C0332R WASHER THAT ATTACH AE707418-1 HYDRAULIC SUCTION HOSE/TUBE TO THE LOWER BRACKET. TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 – 3.9 N.M)

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**STEP 6 - 642-5658-505 HYDRAULIC PRESSURE SWITCH TUBE**

**MECH**

**INSP**

LOCATE THE 642-5658-505 HYDRAULIC PRESSURE SWITCH TUBE ON LEFT SIDE OF THE ENGINE FAN CASE

(SEE FIGURE 3, SHEET 2 FOR PRE SB RA32029-13 CONDITION).

NOTE: DURING CLAMP INSTALLATION ENSURE THAT HOSE/TUBE ASSEMBLY IS PROPERLY ALIGNED TO PREVENT PRELOAD BY TIGHTENING THE BOLTS LIGHTLY DURING THE INITIAL INSTALLATION. AFTER ENSURING THAT THERE IS NO PRELOAD, TORQUE THE BOLTS TO THEIR PROPER VALUE.

A) REMOVE THE MS9556-08 BOLT, THE AN960C10L WASHER AND THE TA0230061 CLAMP THAT ATTACH THE 642-5658-505 HYDRAULIC PRESSURE SWITCH TUBE TO THE TOP CASE DRAIN HOSE/TUBE AE709459-3 AT UPPER MID BRACKET. DISCARD THE TA0230061 CLAMP.

B) REMOVE THE MS9556-07 BOLT, THE AN960C10L WASHER AND THE TA0230061 CLAMP THAT ATTACH THE 642-5658-505 HYDRAULIC PRESSURE SWITCH TUBE TO THE UPPER MID SUPPORT BRACKET. DISCARD THE TA0230061 CLAMP (SEE FIGURE 2 FOR CLAMP ASSY ARRANGEMENT).

C) INSPECT THE HYDRAULIC TUBE AT THE CLAMP LOCATIONS FOR CHAFING OR WEAR. NO WEAR OR DAMAGE IS ALLOWED.

PLEASE PUT APPROPRIATE MARK BELOW:

NO FINDINGS \_\_\_\_\_ FINDINGS \_\_\_\_\_

D) FOR DAMAGE ASSESSMENT OF HOSE SECTION AREA REFER TO AMM CHAPTER 29-11-49 INSPECTION/CHECK.

E) IF THE DAMAGE IS MORE THAN THE ALLOWABLE LIMITS, REPLACE THE HYDRAULIC PRESSURE HOSE/TUBE ASSEMBLY PER AMM CHAPTER 29-11-49 AND DO NOT PERFORM ITEMS (F) AND (G)

F) INSTALL NEW TA0230061 CLAMP, THE AN960C10L WASHER AND THE MS9556-08 BOLT THAT ATTACH THE 642-5658-505 HYDRAULIC PRESSURE SWITCH TUBE TO THE TOP CASE DRAIN HOSE/TUBE AE709459-3 AT UPPER MID BRACKET. TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 - 3.9 N.M)

G) INSTALL NEW TA0230061 CLAMP, THE AN960C10L WASHER AND THE MS9556-07 BOLT THAT ATTACH THE 642-5658-505 HYDRAULIC PRESSURE SWITCH TUBE TO THE UPPER MID SUPPORT BRACKET. TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 - 3.9 N.M)

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**STEP 7 - 112441-507 HYDRAULIC PRESSURE SWITCH HOSE/TUBE**

**MECH**

**INSP**

LOCATE THE 112441-507 HYDRAULIC PRESSURE SWITCH HOSE/TUBE ASSEMBLY ON LEFT SIDE OF THE ENGINE FAN CASE  
(SEE FIGURE 3, SHEET 1 FOR POST SB RA32029-13 CONDITION)

NOTE: DURING CLAMP INSTALLATION ENSURE THAT HOSE/TUBE ASSEMBLY IS PROPERLY ALIGNED TO PREVENT PRELOAD BY TIGHTENING THE BOLTS LIGHTLY DURING THE INITIAL INSTALLATION. AFTER ENSURING THAT THERE IS NO PRELOAD, TORQUE THE BOLTS TO THEIR PROPER VALUE IN THE FOLLOWING SEQUENCE: VERTICAL CLIPPING POINT THEN HORIZONTAL CLIPPING POINTS.

A) REMOVE THE MS9556-08 BOLT, THE AN960C10L WASHER AND THE TA0230061 CLAMP THAT ATTACH THE 112441-507 HYDRAULIC PRESSURE SWITCH HOSE/TUBE TO THE UPPER MID BRACKET ON VERTICAL SIDE.  
DISCARD THE TA0230061 CLAMP

B) REMOVE THE NAS1805-3P NUT, THE AN960C10 WASHER (FAR SIDE), THE MS9556-08 BOLT, THE AN960C10L WASHER AND TA0230061 CLAMP ASSEMBLY (2 LOCATIONS) THAT ATTACH THE 112441-507 HYDRAULIC PRESSURE SWITCH HOSE/TUBE TO THE UPPER MID BRACKET ON HORIZONTAL SIDE. (SEE FIGURE 2 FOR CLAMP ASSY ARRANGEMENT)  
DISCARD TA0230061 CLAMP ASSEMBLY (2 LOCATIONS)

C) INSPECT THE HYDRAULIC HOSE/TUBE AT THE CLAMP LOCATIONS FOR CHAFING OR WEAR. NO WEAR OR DAMAGE IS ALLOWED.

PLEASE PUT APPROPRIATE MARK BELOW:

NO FINDINGS \_\_\_\_\_ FINDINGS \_\_\_\_\_

D) FOR DAMAGE ASSESSMENT OF HOSE SECTION AREA REFER TO AMM CHAPTER 29-11-49 INSPECTION/CHECK.

E) IF THE DAMAGE IS MORE THAN THE ALLOWABLE LIMITS, REPLACE THE HYDRAULIC PRESSURE SWITCH HOSE/TUBE ASSEMBLY PER AMM CHAPTER 29-11-49 AND DO NOT PERFORM ITEMS (F) AND (G).

F) INSTALL NEW TA0230061 CLAMP, THE MS9556-08 BOLT, AND THE AN960C10L WASHER THAT ATTACH THE 112441-507 HYDRAULIC PRESSURE SWITCH HOSE/TUBE TO THE UPPER MID BRACKET ON VERTICAL SIDE.  
TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 - 3.9 N.M)

G) INSTALL NEW TA0230061 CLAMP ASSEMBLY (2 LOCATIONS) THE MS9556-08 BOLT, THE AN960C10L WASHER, THE AN960C10 WASHER (FAR SIDE) AND THE NAS1805-3P NUT THAT ATTACH THE 112441-507 HYDRAULIC PRESSURE SWITCH HOSE/TUBE TO THE UPPER MID BRACKET ON HORIZONTAL SIDE.  
TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 - 3.9 N.M)

**STEP 8 - AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE**

**MECH**

**INSP**

LOCATE AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE ASSEMBLY ON LEFT SIDE OF THE ENGINE FAN CASE (SEE FIGURE 3 SHEET 1).

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NOTE: DURING CLAMP INSTALLATION ENSURE THAT HOSE/TUBE ASSEMBLY IS PROPERLY ALIGNED TO PREVENT PRELOAD BY TIGHTENING THE BOLTS LIGHTLY DURING THE INITIAL INSTALLATION.

AFTER ENSURING THAT THERE IS NO PRELOAD, TORQUE THE BOLTS TO THEIR PROPER VALUE IN THIS SEQUENCE (1, 2, 3, 4, 5) SEE FIGURE 3 SHEET 1.

A) REMOVE MS9556-07 BOLT, NAS1149C0332R WASHER AND C10GT3-12 CLAMP ASSEMBLIES THAT ATTACH AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE TO THE UPPER BRACKET. DISCARD THE C10GT3-12 CLAMP ASSEMBLIES.

B) FOR POST SB RA32029-13 - REMOVE MS9556-08 BOLT, NAS1149C0332R WASHER AND NAS1716C12K CLAMP ASSEMBLIES (2 LOCATIONS) THAT ATTACH AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE TO THE UPPER MID BRACKET AND ENGINE FAN CASE BRACKET. DISCARD THE NAS1716C12K CLAMP ASSEMBLIES (2 LOCATIONS).

C) FOR PRE SB RA32029-13 - REMOVE MS9556-07 BOLT, AN960C10L WASHER AND C10GT3-12 CLAMP ASSEMBLIES THAT ATTACH THE PRESSURE HOSE/TUBE TO THE UPPER MID BRACKET. (SEE FIGURE 2 FOR CLAMP ASSY ARRANGEMENT) DISCARD C10GT3-12 CLAMP ASSEMBLIES.

D) FOR PRE SB RA32029-14 - REMOVE MS9556-07 BOLT, NAS1149C0332R WASHER AND C10GT3-12 CLAMP ASSEMBLIES (2 LOCATIONS) THAT ATTACH THE AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE TO THE LOWER MIDDLE AND LOWER BRACKETS. REFER TO FIGURE 4 SHEET 2. DISCARD THE C10GT3-12 CLAMP ASSEMBLIES (2 LOCATIONS)

E) FOR POST SB RA32029-14 - REMOVE NAS1716C12K SADDLE CLAMP, MS9556-07 BOLTS (2), AND NAS1149C0332R WASHERS (2) THAT ATTACH AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE TO THE LOWER MIDDLE BRACKET. REFER TO FIGURE 4 SHEET 3. DISCARD THE NAS1716C12K SADDLE CLAMP. REMOVE MS9556-07 BOLT, NAS1149C0332R WASHER AND C10GT3-12 CLAMP ASSEMBLY THAT ATTACH THE AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE TO THE LOWER BRACKET. DISCARD THE C10GT3-12 CLAMP ASSEMBLY.

F) INSPECT THE HYDRAULIC HOSE/TUBE AT THE CLAMP LOCATIONS FOR CHAFING OR WEAR. REFER TO TABLE #1 FOR DAMAGE WEAR LIMITS (THE MAXIMUM ALLOWED DAMAGE DEPTH IS 10% OF THE WALL THICKNESS).

PLEASE PUT APPROPRIATE MARK BELOW:

NO FINDINGS \_\_\_\_\_ FINDINGS \_\_\_\_\_

G) FOR DAMAGE ASSESSMENT OF HOSE SECTION AREA REFER TO AMM CHAPTER 29-11-49 INSPECTION/CHECK.

H) IF THE DAMAGE IS MORE THAN THE ALLOWABLE LIMITS, REPLACE THE HYDRAULIC PRESSURE HOSE/TUBE ASSEMBLY PER AMM CHAPTER 29-11-49 AND DO NOT PERFORM ITEMS (I) THRU (M).

I) INSTALL NEW C10GT3-12 CLAMP ASSEMBLIES, MS9556-07 BOLT AND NAS1149C0332R WASHER THAT ATTACH AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE AT THE UPPER

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BRACKET. TIGHTEN THE BOLT TO A TORQUE OF 20-25 LB-IN. (2.3 - 2.8 N.M)

J) FOR POST SB RA32029-13 - INSTALL NEW NAS1716C12K CLAMP ASSEMBLIES, MS9556-08 BOLT AND NAS1149C0332R WASHER (2 LOCATIONS) THAT ATTACH AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE TO THE UPPER MID BRACKET AND ENGINE FAN CASE BRACKET.

TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 - 3.9 N.M)

K) FOR PRE SB RA32029-13 - INSTALL NEW C10GT3-12 CLAMP ASSEMBLIES, AN960C10L WASHER AND MS9556-07 BOLT THAT ATTACH THE PRESSURE HOSE/TUBE TO THE UPPER MID BRACKET.

TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 - 3.9 N.M)

L) FOR PRE SB RA32029-14 - INSTALL NEW C10GT3-12 CLAMP ASSEMBLIES, MS9556-07 BOLT AND NAS1149C0332R WASHER THAT ATTACH AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE AT THE LOWER MID AND LOWER BRACKET. TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 - 3.9 N.M).

REFER TO FIGURE 4 SHEET 2.

M) FOR POST SB RA32029-14 - INSTALL NEW NAS1716C12K SADDLE CLAMP, MS9556-07 BOLTS (2), AND NAS1149C0332R WASHERS (2) THAT ATTACH AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE AT THE LOWER MIDDLE BRACKET. TORQUE THE BOLTS TO 20-25 LB-IN. (2.3 - 2.8 N.M).

REFER TO FIGURE 4 SHEET 3

INSTALL NEW C10GT3-12 CLAMP ASSEMBLY, MS9556-07 BOLT, AND NAS1149C0332R WASHER THAT ATTACH AE707419-3 HYDRAULIC PRESSURE HOSE/TUBE AT THE LOWER BRACKET.

TORQUE THE BOLT TO 30-35 LB-IN. (3.4 - 3.9 N.M)

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**STEP 9 - AE709459-3 HYDRAULIC TOP CASE DRAIN HOSE/TUBE**

**MECH**

**INSP**

LOCATE THE AE709459-3 HYDRAULIC TOP CASE DRAIN HOSE/TUBE ASSEMBLY ON LEFT SIDE OF THE ENGINE FAN CASE (SEE FIGURE 3, SHEET 1).

NOTE: DURING CLAMP INSTALLATION ENSURE THAT HOSE/TUBE ASSEMBLY IS PROPERLY ALIGNED TO PREVENT PRELOAD BY TIGHTENING THE BOLTS LIGHTLY DURING THE INITIAL INSTALLATION. AFTER ENSURING THAT THERE IS NO PRELOAD, TORQUE THE BOLTS TO THEIR PROPER VALUE IN THIS SEQUENCE (3, 2, 5) SEE FIGURE 3 SHEET 1.

A) REMOVE THE MS9556-07 BOLT, THE NAS1149C0332R WASHER AND THE C10GT3-06 CLAMP ASSEMBLIES (3 LOCATIONS) THAT ATTACH THE AE709459-3 HYDRAULIC TOP CASE DRAIN HOSE/TUBE.

DISCARD THE C10GT3-06 CLAMP ASSEMBLIES (3 LOCATIONS)

B) INSPECT THE HYDRAULIC HOSE/TUBE AT THE CLAMP LOCATIONS FOR CHAFING OR WEAR. REFER TO TABLE # 1 FOR DAMAGE WEAR LIMITS (THE MAXIMUM ALLOWED DAMAGE DEPTH IS 10% OF THE WALL THICKNESS).

PLEASE PUT APPROPRIATE MARK BELOW:

NO FINDINGS \_\_\_\_\_ FINDINGS \_\_\_\_\_

C) FOR DAMAGE ASSESSMENT OF HOSE SECTION AREA REFER TO AMM CHAPTER 29-11-49 INSPECTION/CHECK

D) IF THE DAMAGE IS MORE THAN THE ALLOWABLE LIMITS, REPLACE THE HYDRAULIC TOP CASE DRAIN HOSE/TUBE ASSEMBLY PER AMM CHAPTER 29-11-49 AND DO NOT PERFORM ITEM (E).

E) INSTALL NEW C10GT3-06 CLAMP ASSEMBLIES, THE NAS1149C0332R WASHER AND THE MS9556-07 BOLT (3 LOCATIONS) THAT ATTACH THE AE709459-3 HYDRAULIC TOP CASE DRAIN HOSE/TUBE. TIGHTEN THE BOLT TO A TORQUE OF 30-35 LB-IN. (3.4 - 3.9 N.M).

F) INSPECT THE TA0330014 TRIANGULAR CLAMP THAT ATTACHES HOSES TOGETHER AT LOWER LOCATION FOR CORRECT INSTALLATION. ADJUST IF NECESSARY ITS POSITION TO AVOID CHAFING BETWEEN HOSES AND SURROUNDING HARDWARE. REFER TO FIGURE 3 SHEET 1 FOR PROPER DIMENSION

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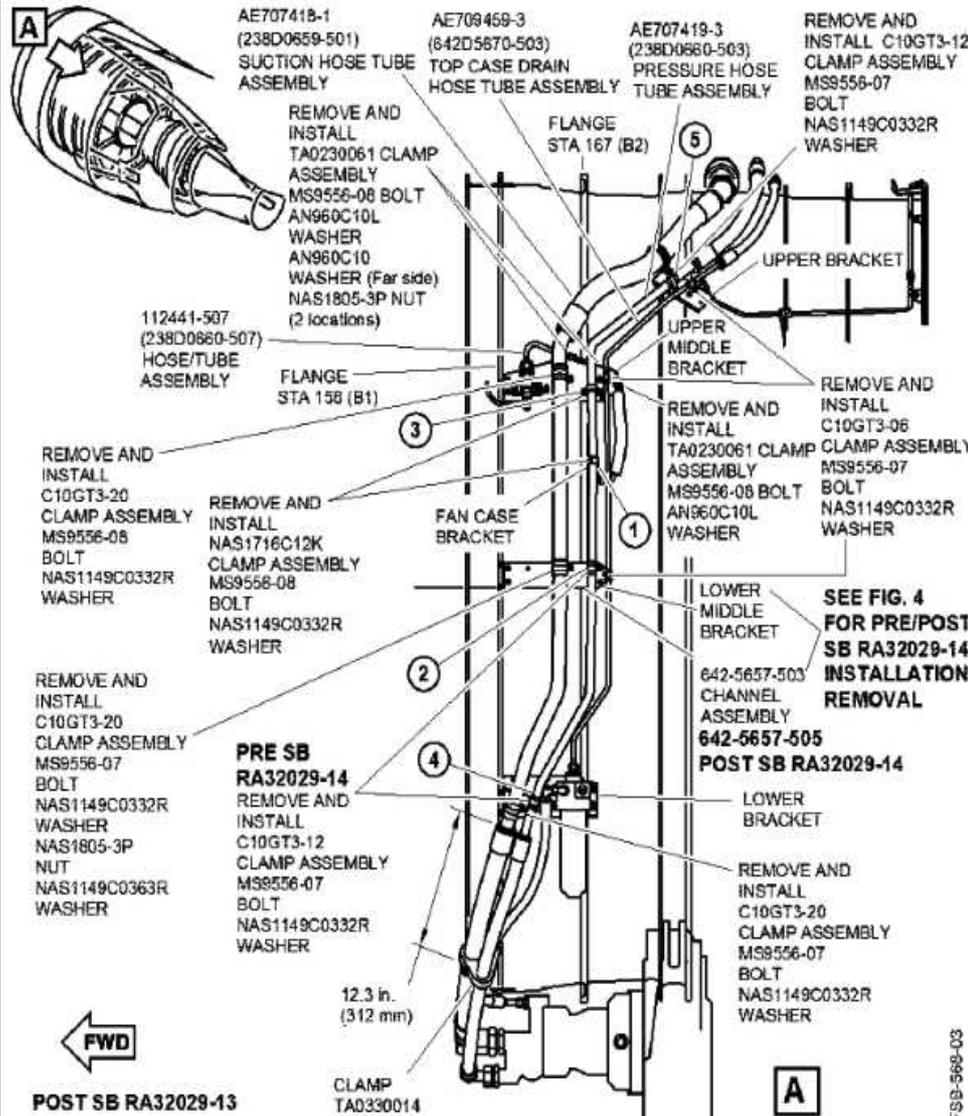
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**STEP 10 - FIGURE 1**

CFM56-5B HYDRAULIC HOSE/TUBE ASSEMBLY AND CLAMPING INSPECTION

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CFM56-5B Hydraulic Hose and Clamping Inspection  
Figure 3 Sheet 1 (Post SB RA32029-13)

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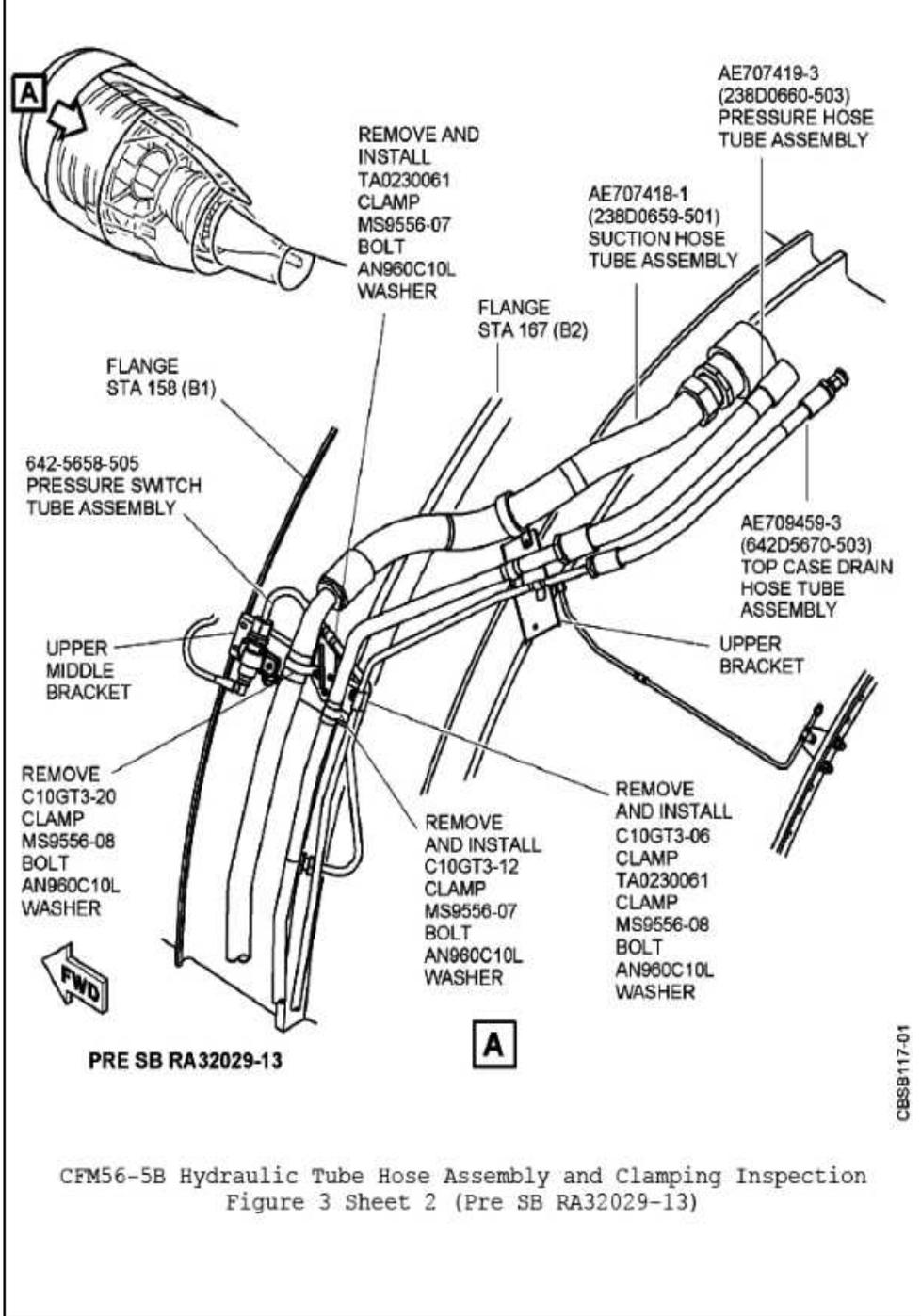
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**STEP 11 - FIGURE 3 SHEET 2**

CFM56-5B HYDRAULIC TUBE HOSE ASSEMBLY AND CLAMPING INSPECTION

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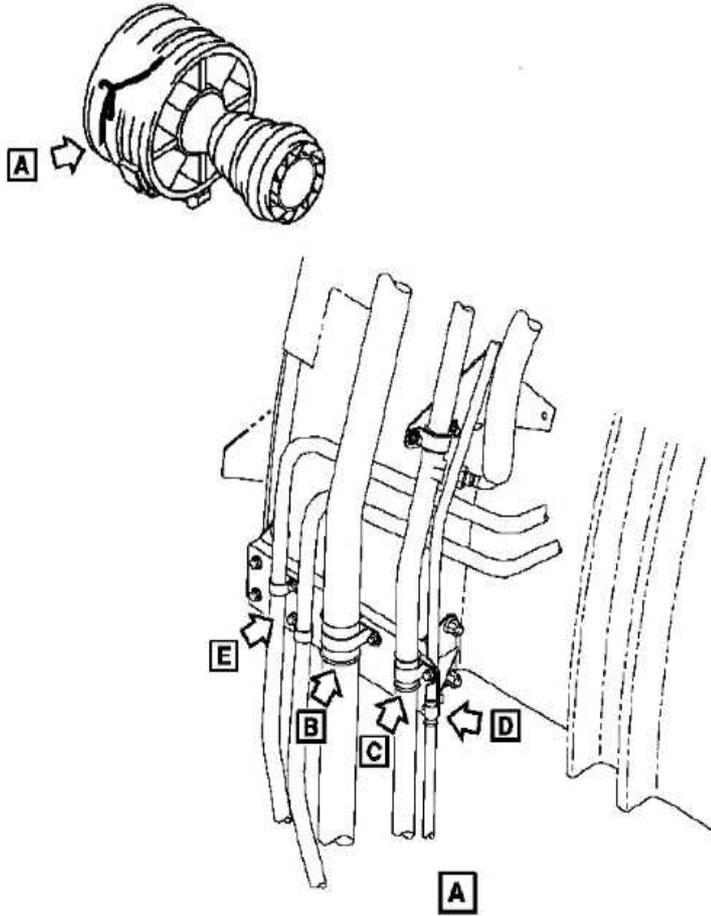
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**STEP 12 - FIGURE 4 SHEET 1**

MECH

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C/5B-183-00

CFM56-5B 9 O'CLOCK (LOWER MIDDLE) BRACKET ASSEMBLY  
Figure 4 Sheet 1

CFM56-5B

9 O'CLOCK (LOWER MIDDLE) BRACKET ASSEMBLY

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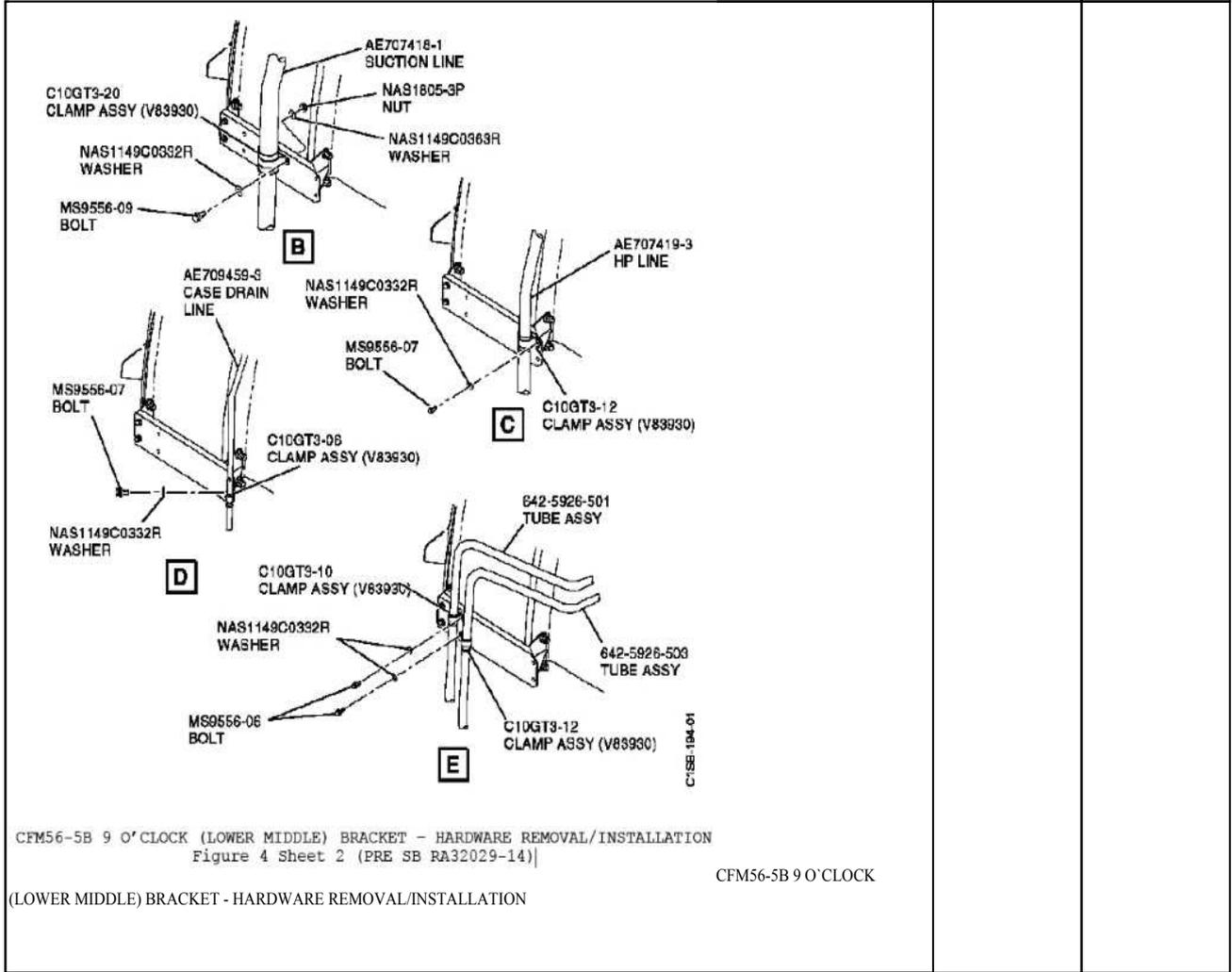
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**STEP 13 - FIGURE 4 SHEET 2 (PRE SB RA32029-14)**

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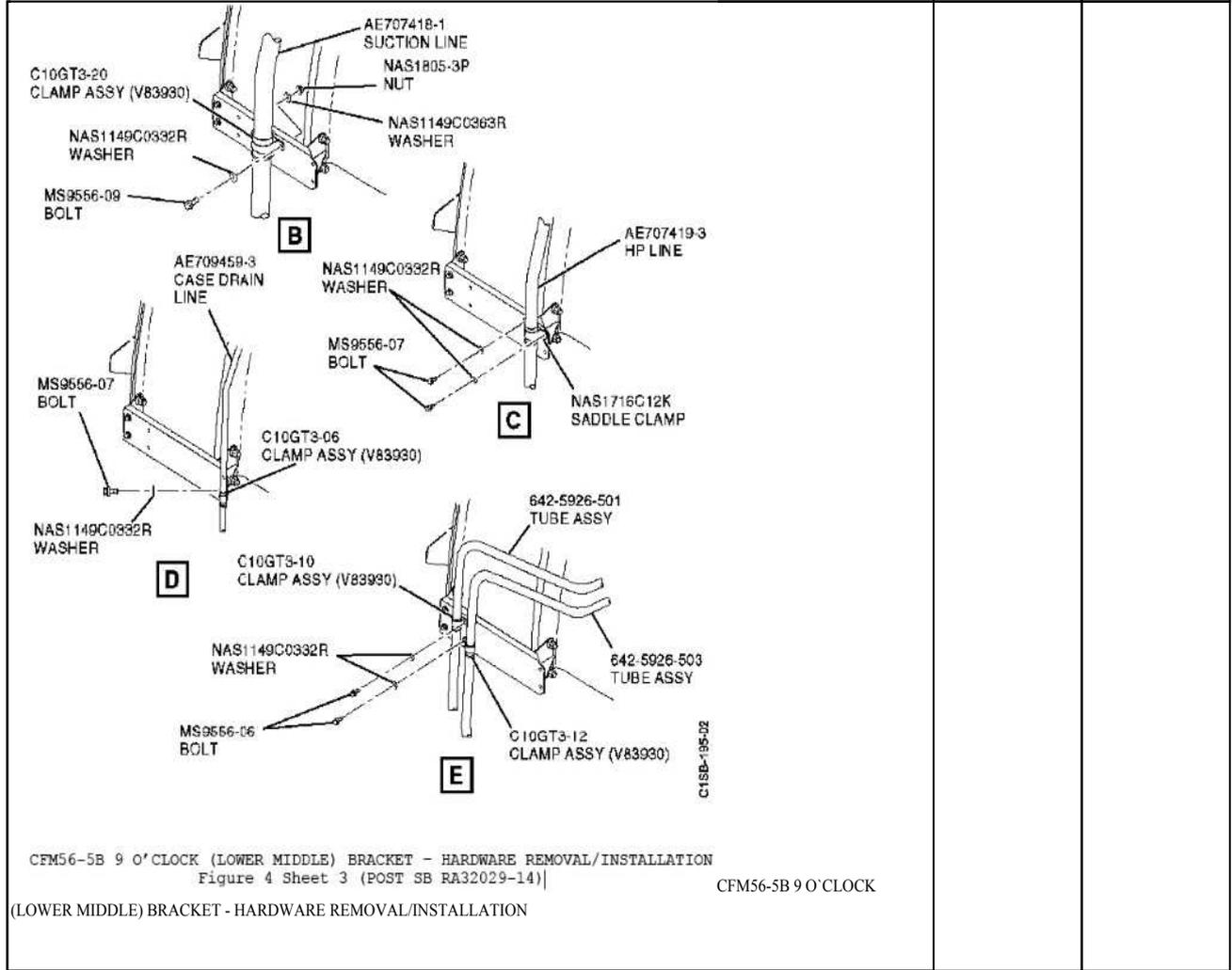
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**STEP 14 - FIGURE 4 SHEET 3 (POST SB RA32029-14)**

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**STEP 15 - TABLE 1**

ALLOWABLE WEAR LIMITS ON HOSE/TUBE METALLIC SECTION

PART NUMBER	SUPPLIER PART NUMBER	NOMENCLATURE	MAX DEPTH WEAR LIMITS	ENGINE TYPE	REMARKS
238D0659-501	AE707418-1	Suction hose/tube assy	0.0065 (0,165)	CFM56-5A & CFM56-5B	
238D0660-501	AE707419-1	Pressure hose/tube assy	0.0095 (0,241)	CFM56-5B & CFM56-5A	Pre SP1B CFM93238MW1
238D0660-503	AE707419-3	Pressure hose/tube assy	0.0095 (0,241)	CFM56-5B & CFM56-5A	Post SP1B CFM93238MW1
238D0661-501	AE707420-1	Top case drain hose/tube assy	0.0035 (0,089)	CFM56-5A	Pre SB 32019-4
238D0661-503	AE707420-2	Top case drain hose/tube assy	0.0035 (0,089)	CFM56-5A	Post SB 32019-4 Pre SP1B CFM96235MW1 Post SP1B CFM00167MW1
238D0661-505	AE707420-3	Top case drain hose/tube assy	0.0035 (0,089)	CFM56-5A	Post SP1B CFM96235MW1 Pre SP1B CFM00167MW1
642D5670-503	AE709459-3	top case drain hose/tube assy	0.0028 (0,071)	CFM56-5B	

TABLE 1

Allowable Wear Limits On Hose/Tube Metallic Section

NOTE: All dimensions are in inches with millimeters in ( )

MECH

INSP

**STEP 16 - CLOSE-UP**

- 1) PRESSURIZE THE RELEVANT HYDRAULIC SYSTEM AND RESERVOIR. REFER TO AMM CHAPTER 29-10-00.
- 2) PERFORM A VISUAL INSPECTION FOR OIL LEAKS, AS WELL AS FOR HYDRAULIC FLUID LEAKS FROM THE TUBES/HOSES. LEAKS ARE NOT PERMITTED.
- 3) CLOSE THE LEFT FAN COWL DOOR. REFER TO AMM CHAPTER 71-13-00.
- 4) REMOVE SAFETY PRECAUTIONS. REFER TO AMM CHAPTER 29-11-49 PG 601

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