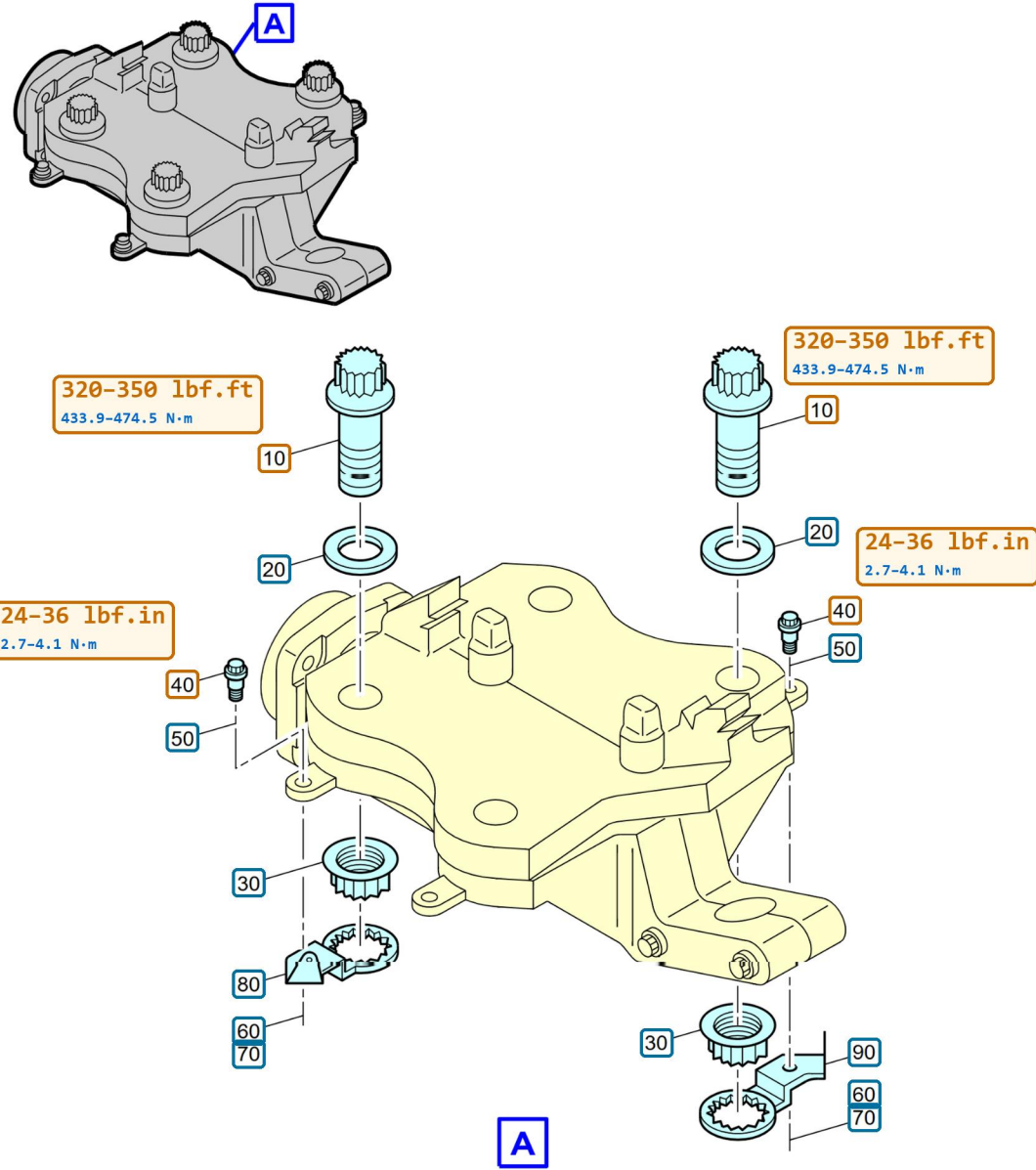


CFM56-5B · FORWARD ENGINE MOUNT · Pylon attach hardware

IPC 71-21-11-04 (figure and part numbers) · AMM 71-00-00-400-042-A03 (torques) · A320 VLG



ITEM	DESCRIPTION	PART NUMBER	ALTERNATES / NOTES
10	Bolt	83769H14-17	Hold nut (30) while torquing. 2 per side.
20	Washer	VN936NP14C	AS4987NP14C · NS202139C14 · RA82088-14
30	Nut	VN401B144	
40	Bolt, retainer plate	77458-3-5	PBF1340-3-5 · AIC457-3-5
50	Washer	VN936NP3C	AS4987NP3C · NS202139C3 · RA82088-3
60	Washer	VN936NP3	AS4987NP3 · NS202139-3 · RA82089-3
70	Nut	NAS1805-3P	
80	Retainer plate LH	238-0226-507	
90	Retainer plate RH	238-0226-508	

TORQUE SUMMARY

Bolts 10 **320-350 lbf.ft**
433.9-474.5 N.m

Bolts 40 **24-36 lbf.in**
2.7-4.1 N.m

Bolt 10 with adapter 98D71203002206: at 22.5° set the wrench to 301-329 lbf.ft (408.1-446.1 N-m); at 67.5° set it to 307-336 lbf.ft (416.2-455.5 N-m).

After torquing, make sure the mount touches the pylon.

Before installation, the rotation torque of bolt 10 must be between 70 lbf.in and 50 lbf.ft (if lower, replace the nut and repeat).

N·m = m.daN × 10 (the AMM gives m.daN).

POWER PLANT DATA

N_PC_712111_04_0_01_00

IPC 71-22-10-01A (figure and part numbers) · AMM 71-00-00-400-042-A03 (torques) · A320 VLG

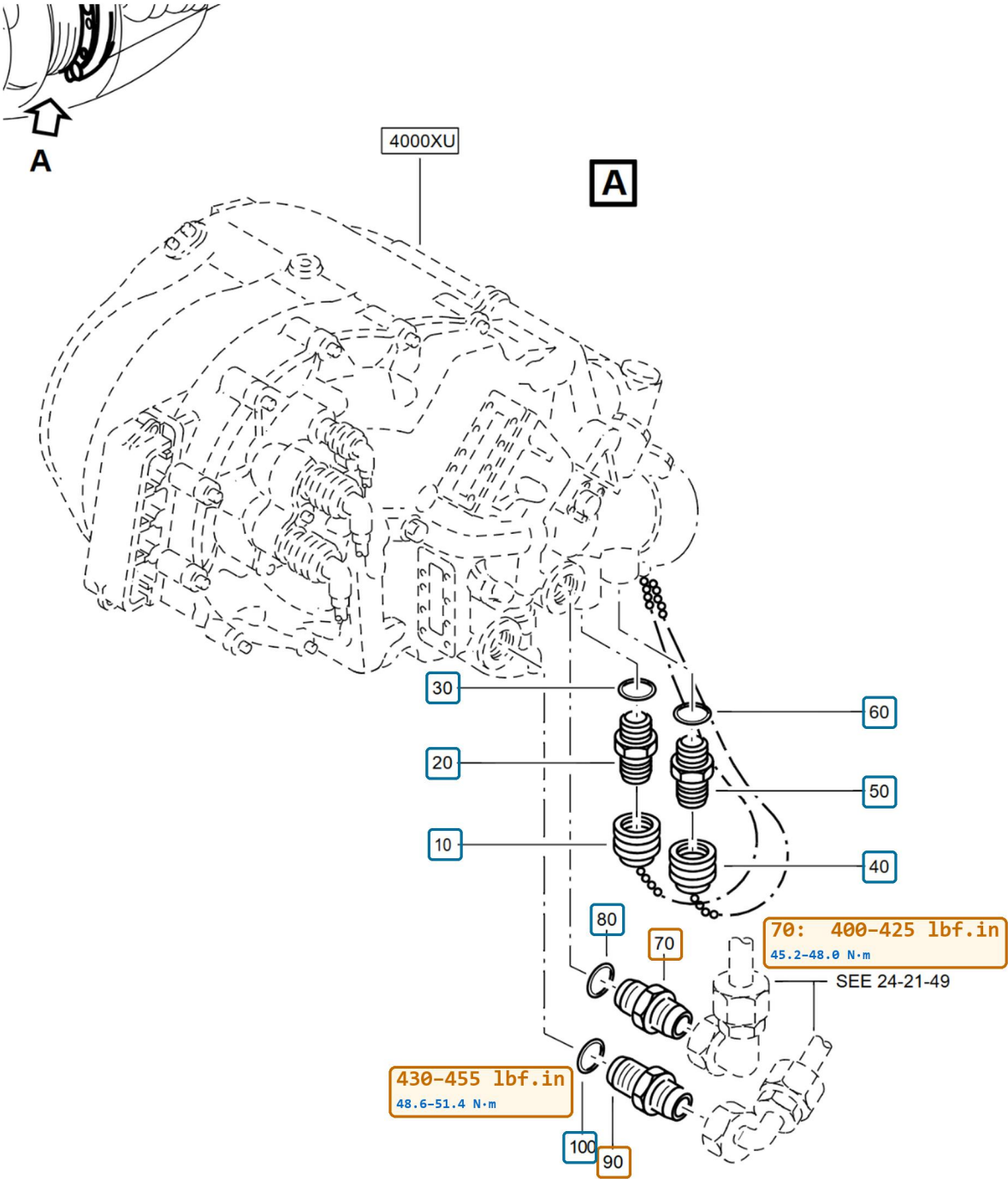


480-580 lbf.ft
650.8-786.4 N·m

$N \cdot m = m \cdot daN \times 10$ (the AMM gives $m \cdot daN$: 65.08–78.64).

CFM56-5B · IDG · Oil-in / oil-out unions and lines

IPC 24-21-51-05 and 24-21-51-01A (figures and part numbers) · AMM 24-21-51-400-040-E (torques) · A320 VLG



ITEM	DESCRIPTION	PART NUMBER	ALTERNATES / NOTES
10	Dust cap	ØMP2505-6	
20	Coupling half	ØMP2505-2	
30	Packing, preformed	M83248-1-908	AS3208-08 · M83485-1-908
40	Dust cap	ØMP2506-6	
50	Coupling	ØMP2506-2	
60	Packing, preformed	M83248-1-906	AS3208-06 · M83485-1-906
70	Union	AN815-10J	
80	Packing, preformed	M83248-1-910	AS3208-10 · M83485-1-910
90	Union	AN815-12J	
100	Packing, preformed	M83248-1-912	AS3208-12 · M83485-1-912
110A	IDG (fig 24-21-51-01A)	1706903	1708897 · 772181A

TORQUE SUMMARY

Union 70

400-425 lbf.in

45.2-48.0 N·m

Union 90

430-455 lbf.in

48.6-51.4 N·m

Oil-in line nut

725-850 lbf.in

81.9-96.1 N·m

Oil-out line nut

700-730 lbf.in

79.1-82.5 N·m

QAD tension bolt

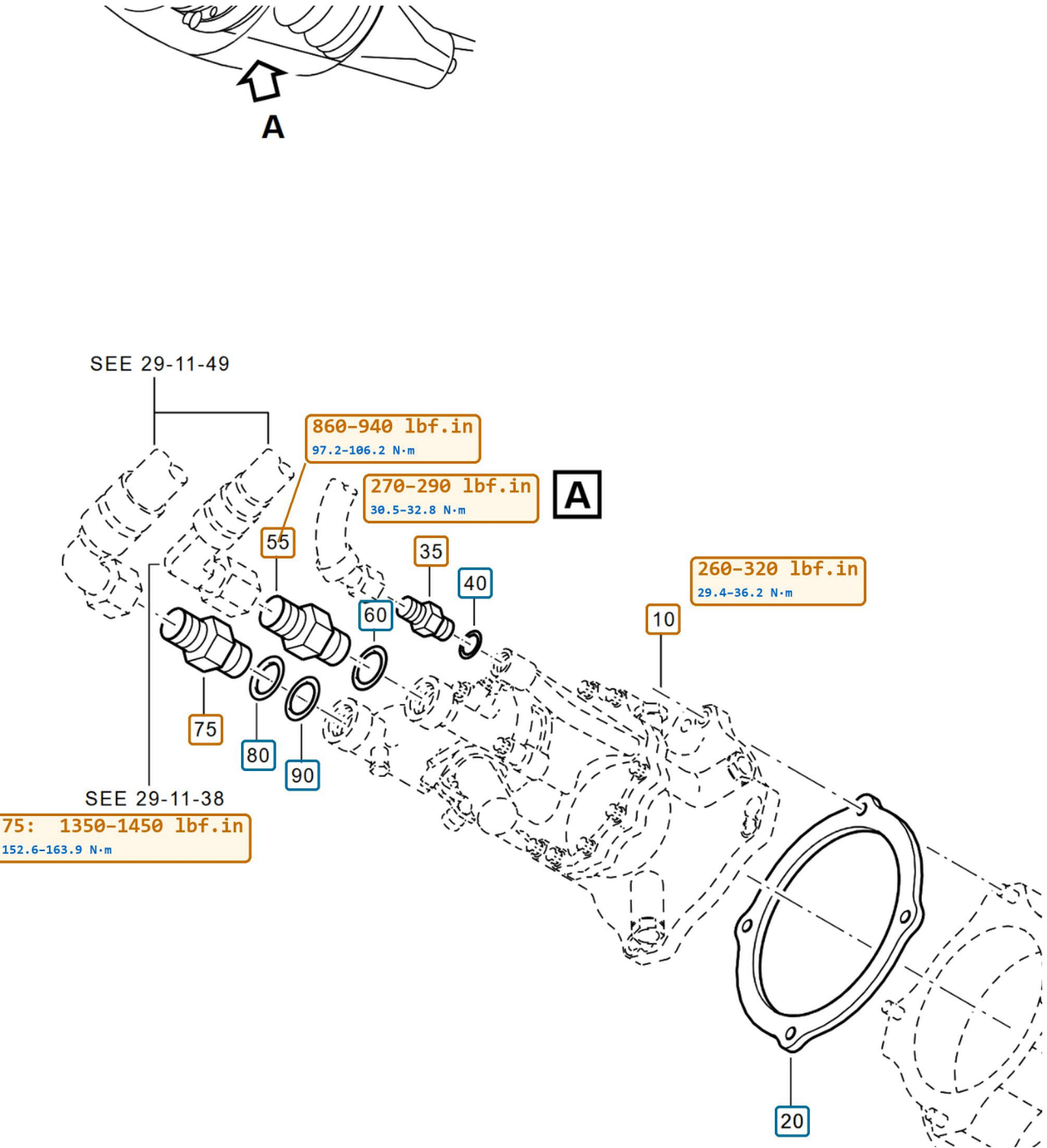
265-305 lbf.in

29.9-34.5 N·m

Use TWO wrenches on the oil-in / oil-out lines: one holds the fitting, the other torques the nut (otherwise you damage the IDG bosses).
Fit new packings: lubricate with turbine engine oil (03ABA1 or 03ABB1) before installing.
QAD tension bolt: drawing and re-check procedure are on the sheets 'IDG QAD tension bolt' and 'IDG QAD adapter'.
N·m = m.daN × 10 (the AMM gives m.daN). Unions: 70 = AMM union (14), 90 = AMM union (16).

CFM56-5B · GREEN HYDRAULIC PUMP (EDP, engine 1) · Mount nuts, unions and hoses

IPC 29-11-51-02A and 29-11-51-01A (figures and part numbers) · AMM 29-11-51-400-041-A (torques) · A320 VLG



ITEM	DESCRIPTION	PART NUMBER	ALTERNATES / NOTES
10	Nut (4 per pump)	52Z2278-064	Use NEW nuts
20	Gasket	S700M0986	
35	Reducer assy (case drain)	AFP292J6-8A	35A MS21916J8-6 (post SPIB CFM98120MW)
40	Packing	NAS1612-8	
55	Union (suction)	AFP290J20A	55A MS21902J20 (post SPIB CFM98120MW)
60	Packing	NAS1612-20	
75	Reducer (pressure)	RS4932413J12-16	
80	Back-up ring	MS28774-123	
90	Packing	NAS1612-16	90A A991600AA954 (O-ring)
010D	PUMP (fig 29-11-51-01A)	4205401	3031863-001 · 3031863-002 · 4205400 · 623977 · 887673

TORQUE SUMMARY

Mount nuts 10	260-320 lbf.in 29.4-36.2 N·m
Case drain 35	270-290 lbf.in 30.5-32.8 N·m
Suction 55	860-940 lbf.in 97.2-106.2 N·m
Pressure 75	1350-1450 lbf.in 152.6-163.9 N·m
Hose nut, case drain	215-245 lbf.in 24.3-27.7 N·m
Hose nut, suction (x2)	800-900 lbf.in 90.4-101.7 N·m
Hose nut, pressure	900-1000 lbf.in 101.7-113.0 N·m

Pump is full of fluid: do not let hydraulic fluid run out when you connect parts. Same torques for the Eaton (Vickers) and Parker (Abex) pump.

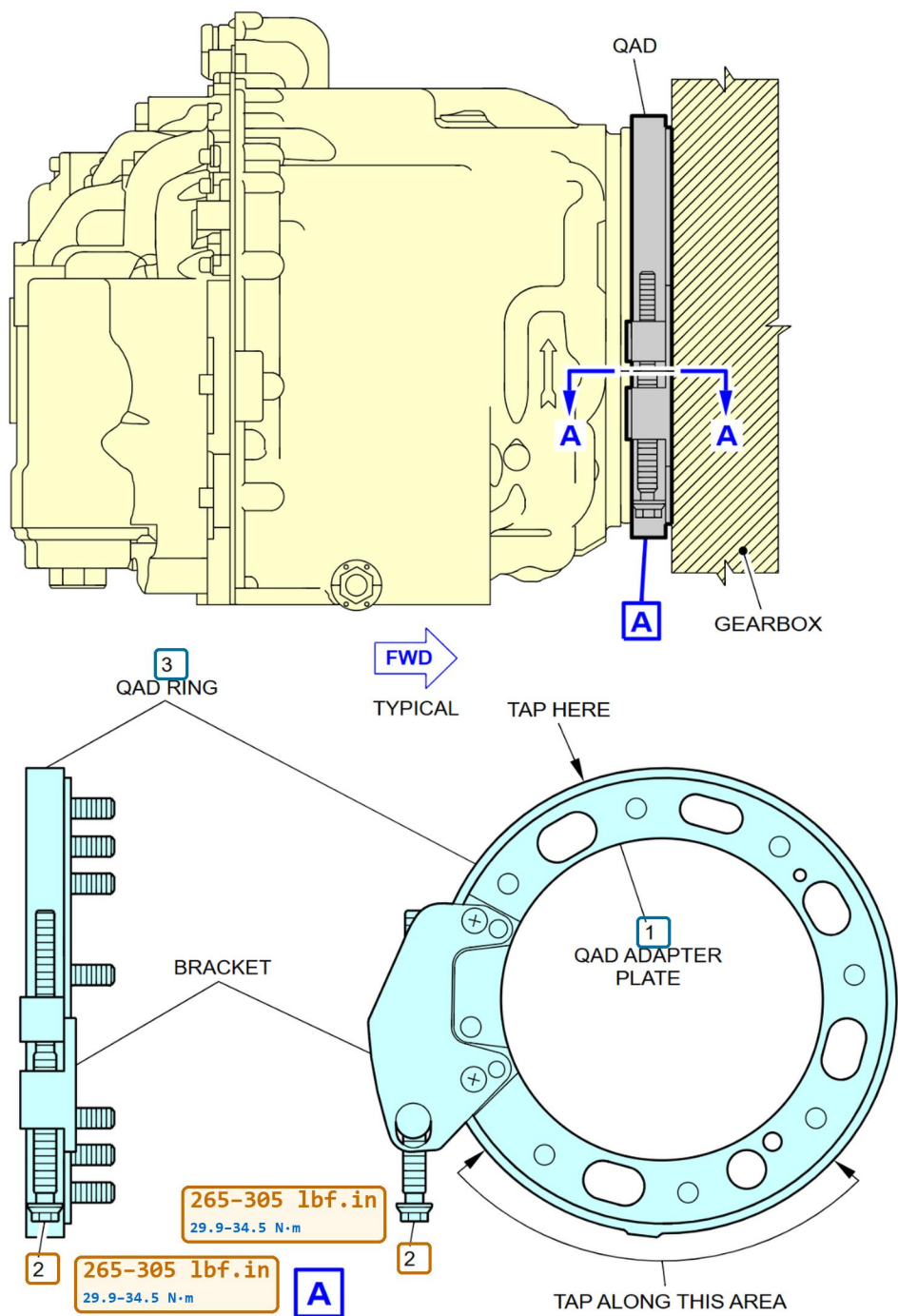
Mount nuts: first a running torque check (min 9.5 lbf.in / 1.1 N-m); if you can turn a nut by hand with no resistance, discard it.

Hose nuts: hold the union with a second wrench while you torque the coupling nut.

N·m = m.daN × 10 (the AMM gives m.daN). Unions: 35 = AMM union (25) case drain; 55 = AMM union (15) suction; 75 = AMM union/reducer (65) pressure.

CFM56-5B · IDG QAD · Tension bolt

AMM 24-21-00-210-043-A and 24-21-51-400-040-E (drawing and torques) · IPC 24-21-41-01A (part number) · A320 VLG



ITEM	DESCRIPTION	PART NUMBER	ALTERNATES / NOTES
1	QAD adapter plate (on engine gearbox)	772896	IPC 24-21-41-01A item 010B (QAD adapter, new EPGS)
2	TENSION BOLT (on QAD ring)	part of QAD	not listed separately in the IPC
3	QAD ring	part of QAD	not listed separately in the IPC

TORQUE SUMMARY

QAD tension bolt (2)

265-305 lbf.in
29.9-34.5 N.m

Allowed drop on re-check

2 lbf.ft max
2.7 N.m

Check on the aircraft: torque the tension bolt (2) to 265-305 lbf.in, lightly tap the QAD ring (3) with a soft-face mallet (tap along the marked area), measure the torque again.

If the torque drops more than 2 lbf.ft (0.27 m.daN) from the first value, torque and tap again.

Installing the IDG: turn the bolt to open the ring, align the ring mark with the adapter plate mark, engage the IDG lugs, torque the bolt, tap with the mallet, check torque again, then lockwire the bolt (0.8 mm, CP8002).

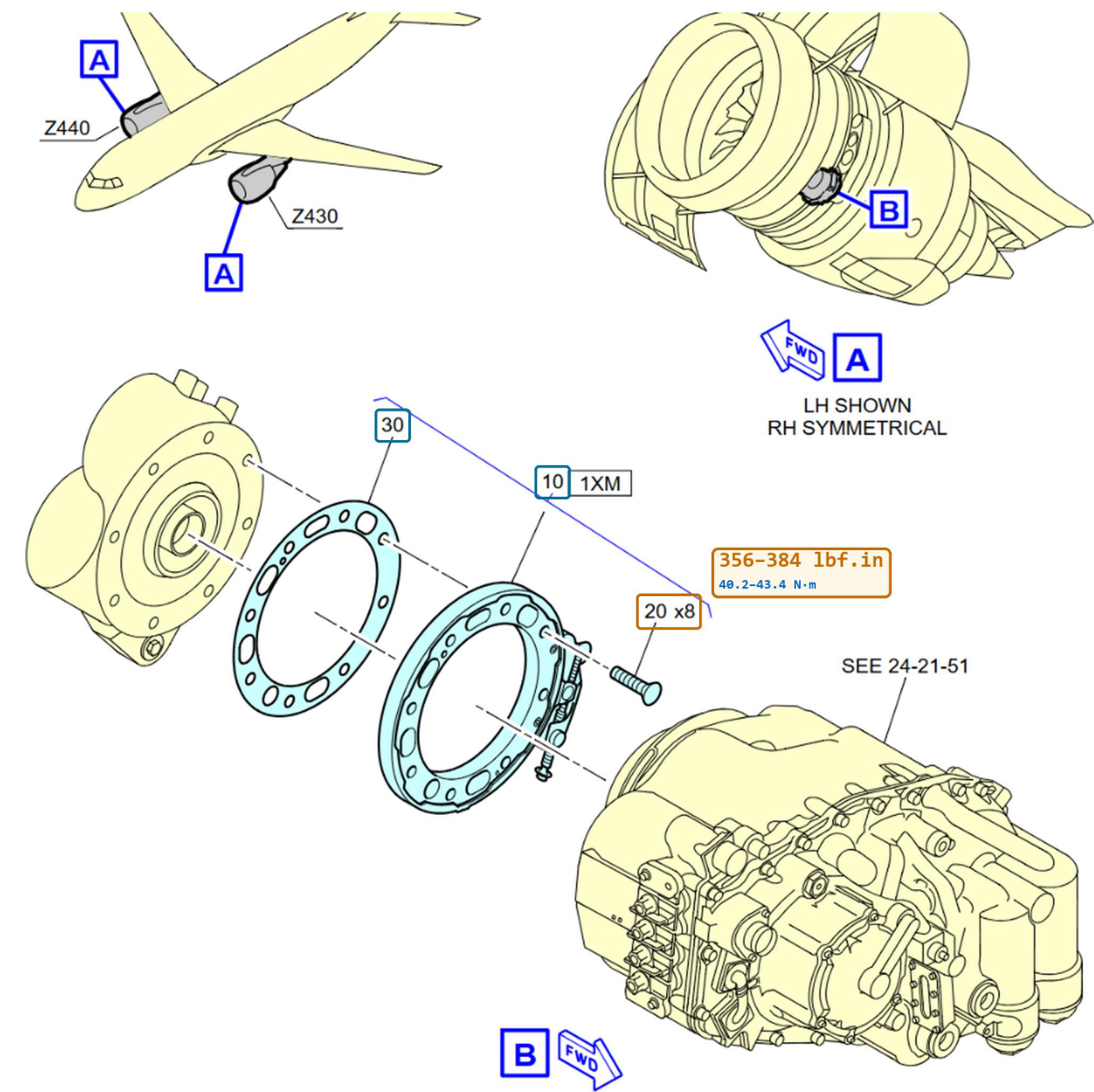
With IDG new EPGS the QAD must be P/N 772896 (replaces 740123). N.m = m.daN × 10.

Figure 24-21-00-991-90700-00-B (SHEET 1/2) - IDG System - QAD Adapter. The IPC lists the QAD as one unit (772896); ring, plate and bolt are shown in the AMM only.

Source: AMM/IPC A320 VLG, rev 85 (01-Aug-2026). Study aid only: it does not replace the current official AMM. Check effectivity (MSN/FSN, service bulletins).

CFM56-5B · IDG QAD ADAPTER · Screws on the gearbox

IPC 24-21-41-01A (figure and part numbers) · AMM 24-21-41-400-043-A (torque) · A320 VLG



ITEM	DESCRIPTION	PART NUMBER	ALTERNATES / NOTES
10B	QAD adapter (2 per aircraft)	772896	for IDG new EPGS (replaces 740123)
20	Screw (8 per adapter)	0646C624-20	anti-seize on head and threads
30A	Gasket (new each time)	1700182	
110A	IDG (fig 24-21-51-01A)	1706903	1708897 · 772181A

TORQUE SUMMARY

Screws 20 (8 per adapter) **356-384 lbf.in**
40.2-43.4 N·m

Clean the adapter face. Remove the protective backing from the NEW gasket, check it for tears, and align its 8 holes with the 8 holes of the adapter.

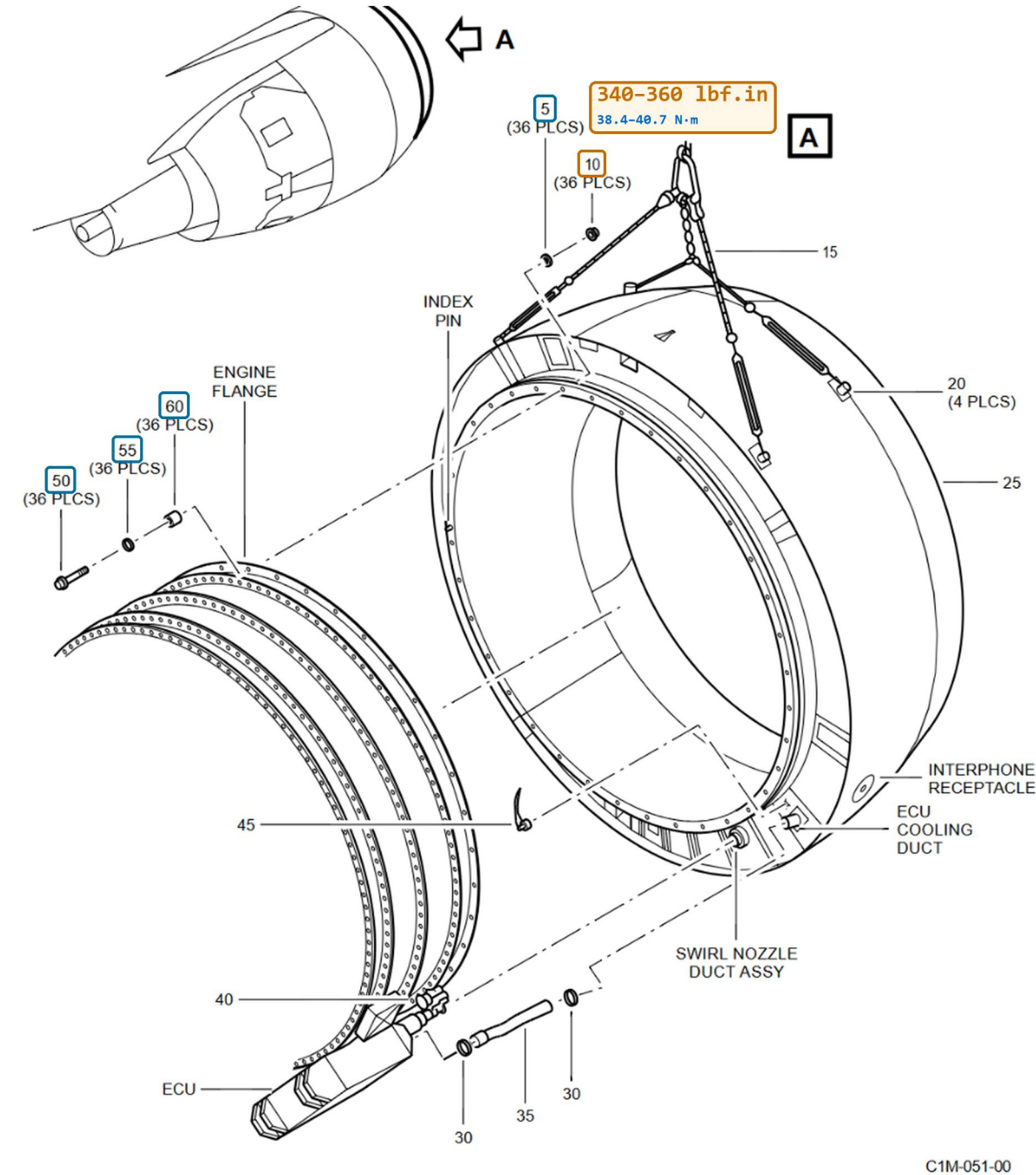
Put the adapter on the gearbox with 'TOP CFM' at the 12 o'clock position.

Apply a thin layer of anti-seize nickel and graphite (03PBD1) to the conical heads and threads of the 8 screws, then torque them.

After this, install the IDG (AMM 24-21-51-400-040).
N·m = m.daN × 10.

CFM56-5B · AIR INTAKE COWL (INLET) · Attach hardware to the fan case

IPC 71-11-11-01A (figure and part numbers) · AMM 71-11-00-400-041-A (torques) · A320 VLG



ITEM	DESCRIPTION	PART NUMBER	ALTERNATES / NOTES
10	NUT (36) · IPC 60	80562C624W	torque these
50	Bolt (36) · IPC 30	77711-6-17	PBF1489-6-17 · AIC577-6-17 · head faces AFT
55	Washer (36) · IPC 50	NAS1587-6	countersunk side against bolt head
5	Washer (36) · IPC 40	NAS1587-6C	
60	Spacer (36) · IPC 70	642-1028-501	
25	Air inlet cowl (310 lb / 140.6 kg)	642-1000-501	642-1000-505 (post SB RA32071-126)
15/20	Sling and attach pads (4)	tooling	remove after bolting

TORQUE SUMMARY

Nuts 10 (x36)

340-360 lbf.in
38.4-40.7 N.m

Hoist insert bolts

60-70 lbf.in
6.8-7.9 N.m

36 places. Cowl weighs 140.6 kg: use the sling. Engage the INDEX PIN with the engine flange first.

Bolts go through the engine flange, head facing AFT. Torque nuts starting at 9 and 3 o'clock, then follow the torque sequence chart (AMM fig 71-11-00-991-30100), and torque again in the same sequence.

Hoist insert bolts: 60-70 lbf.in (6.8-7.9 N-m).

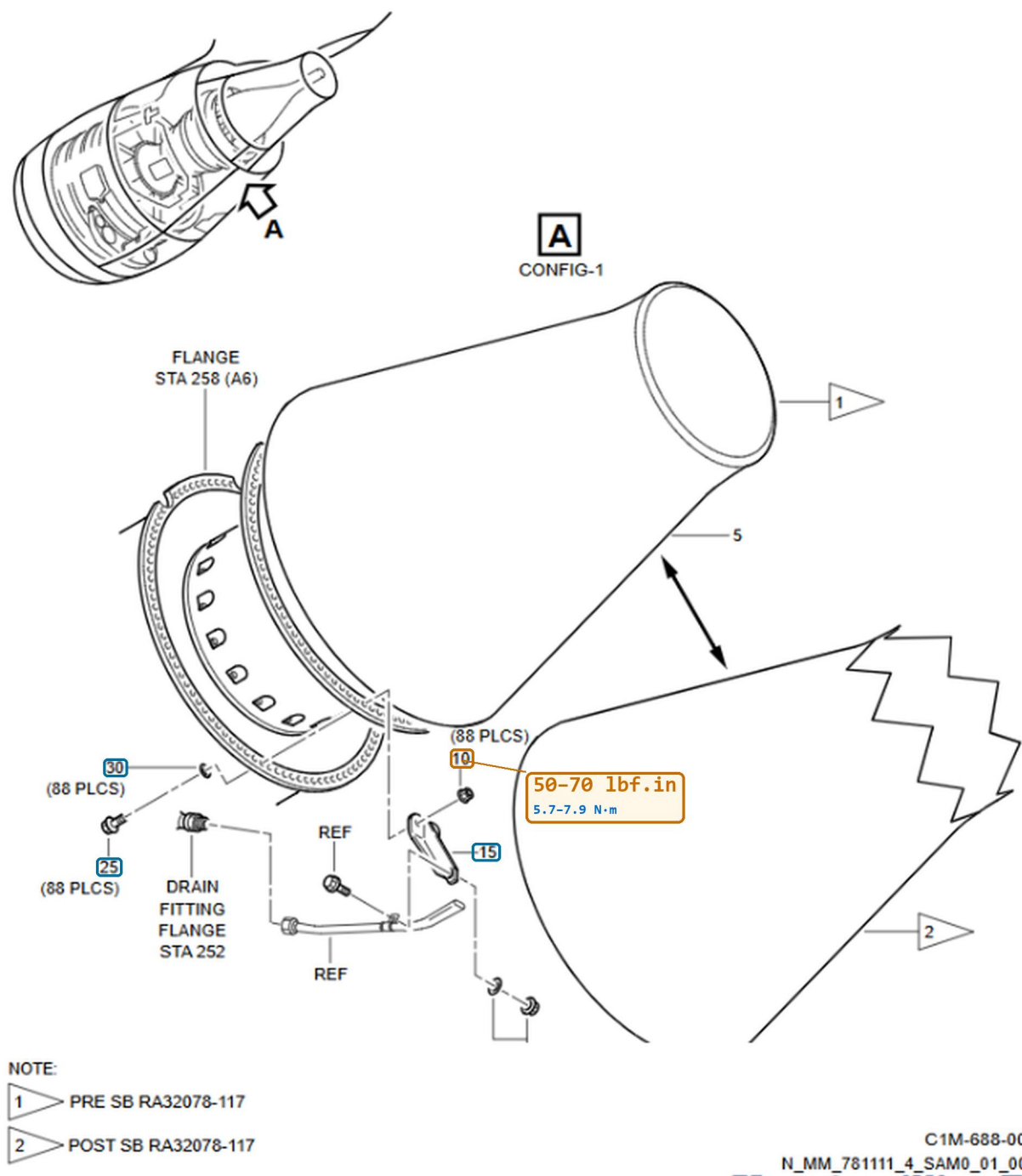
New cowl: adjust the fan cowl doors, or they can open in flight. N·m = m.daN × 10.

Figure 71-11-00-991-30000-06-A (SHEET 1) - Air Intake Cowl (AMM 71-11-00-400-041-A). Numbers are AMM item numbers; IPC numbers in the table. Torque sequence chart: AMM fig 71-11-00-991-30100.

Source: AMM/IPC A320 VLG, rev 85 (01-Aug-2026). Study aid only: it does not replace the current official AMM. Check effectivity (MSN/FSN, service bulletins).

CFM56-5B · CORE NOZZLE (exhaust) · Flange bolts and nuts

AMM 78-11-11-400-041-A, Config 1 (-5BX/P and -5BX/3) · IPC 78-11-11-01B (part numbers) · A320 VLG



ITEM	DESCRIPTION	PART NUMBER	ALTERNATES / NOTES
5	Core nozzle assembly (73.5 kg)	see IPC 100/100A/100B	238-0401-501 · 642-4001-501 · 642-4612-501 chevron (post SB RA32078-117)
25	Bolt (88 places)	77458-4-4	77710-4-4 · VCC0204-4-4 · 275B0204-6 (IPC 110/120, depends on SPIB)
30	Washer (88 places)	S700W0501	IPC 130/140/150
10	NUT (88 places)	check IPC 78-11-11-01B	torque these; bracket nuts: VN324B048 (IPC 10)
15	Bracket (flange holes 44 and 45, bottom)	see IPC	2 bolts, 2 washers, 2 nuts

TORQUE SUMMARY

Nuts 10 (x88)

50-70 lbf.in
5.7-7.9 N.m

Core nozzle weighs about 73.5 kg: support it safely and keep it away from other engine parts.

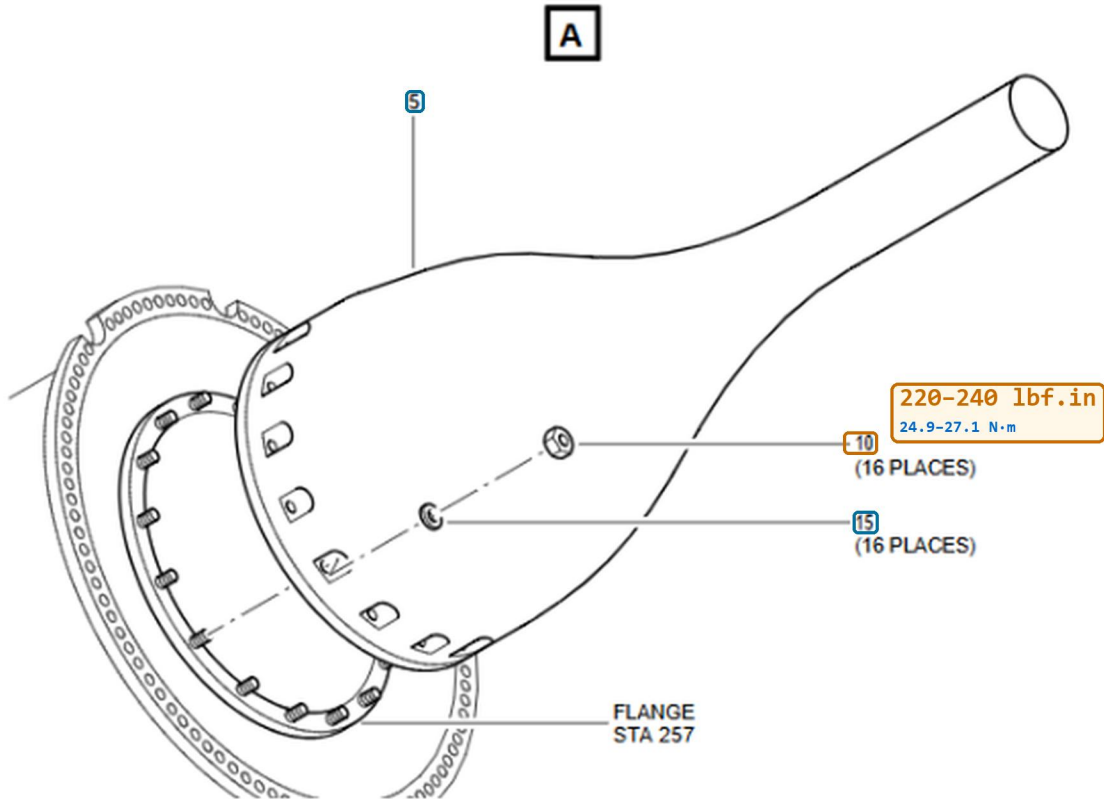
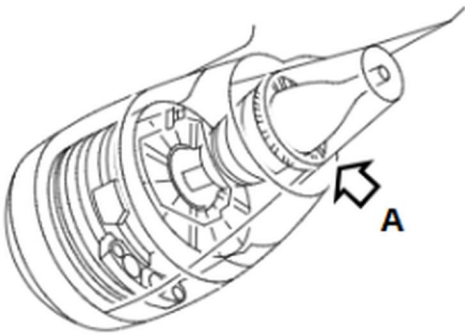
Install all bolts, washers and nuts finger tight (bracket 15 at holes 44 and 45 included), then fit the TRF drain tube and adjust the nozzle position for the best exhaust gas flow path.

Then torque the nuts 50-70 lbf.in. Start at 3 and 9 o'clock, then go on opposite sides of the engine.

Part numbers of bolts and nuts change with SPIB/SB: check the IPC variant before ordering. N.m = m.daN × 10.

CFM56-5B · CENTERBODY (exhaust plug) · Nuts on the engine flange

AMM 78-11-12-400-041-A (torque) · IPC 78-11-12-01A (part numbers) · A320 VLG



ITEM	DESCRIPTION	PART NUMBER	ALTERNATES / NOTES
10	NUT (16 per centerbody) · IPC 010	VN405W064	BH00184-6 · H19083-6 · always NEW nuts
15	Washer (16) · IPC 020	VN936NP6	AS4987NP6 · NS202139-6 · RA82089-6
5	Centerbody assy · IPC 030	238-0451-511	-513 post SB RA32178-4 · -523 post SPIB CFM02188MW1 (more variants in IPC)

TORQUE SUMMARY

Nuts 10 (x16) **220-240 lbf.in**
24.9-27.1 N·m

Check that the centerbody has TWO rows of drain holes. If not, see SB RA32178-4.

Put the centerbody on the studs of the engine flange (STA 257). Put Never-Seez pure nickel (CP2619) on the stud threads.

Fit NEW nuts and washers (16). Never reuse nuts. Torque the nuts 220-240 lbf.in. N·m = m.daN × 10.