





UNSCHEDULED

Operator: <b>BOSCO AVIATION</b>	Model: <b>737-8AWBJ REVISION 20</b>	Work Card No.: <b>170530-1-1</b>
Serial No: <b>32806 (YD405)</b>	Date Logged: <b>30-MAY-2017</b>	Workorder No.: <b>WO 170530CBB</b>
RegNo. <b>VP-CBB</b>		

DATE(DD/MMM/YYYY)	HOURS	CYCLES				
Due At						
Accomplished	5/30/17	10 916.4	4823			

Task No	Task Description
170530-1-1	PERFORM TEST 5 - POWER ASSURANCE CHECK AS PER B737 AMM TASK 71-00-00-700-813-F00. COMPLETE THE ATTACHED FORM ENGINE DATA AND RECORD SHEET FIGURE 501/71-00-00-990-803-F00 (SHEET 1 OF 2) AND RECORD IN THE ADDITIONAL DATA REQUIREMENTS SECTION, THE BAROMETRIC VALUE AT THE TIME OF RUN.

P/N: \_\_\_\_\_ S/N: \_\_\_\_\_ LABOR HRS: \_\_\_\_\_ COST: \_\_\_\_\_  
 REPAIR STATION: \_\_\_\_\_

CORRECTIVE ACTION: PERFORMED TEST 5 - POWER ASSURANCE CHECK PER B737  
AMM TASK 71-00-00-700-813-F00.

TECHNICIAN SIGNATURE: [Signature] 5/30/17  
 KIND OF CERTIFICATE & NO.: 166-CAY-AMO-2014

INSPECTED BY: [Signature] 30 MAY 2017  
 KIND OF CERTIFICATE & NO.: 166-CAY-AMO-2014

Operator: <b>BOSCO AVIATION</b>	Model: <b>737-8AWBJ REVISION 20</b>	Work Card No.: <b>170530-2-2</b>
Serial No: <b>32806 (YD405)</b>	Date Logged: <b>30-MAY-2017</b>	Workorder No.: <b>WO 170530CBB</b>
RegNo. <b>VP-CBB</b>		

DATE(DD/MMM/YYYY)	HOURS	CYCLES				
5/30/17	10916.18	4823				

Task No	Task Description
170530-2-2	PERFORM ACCELERATION CHECK PER AMM TASK 71-00-00-700-824-F00 (TEST 8)

P/N: \_\_\_\_\_ S/N: \_\_\_\_\_ LABOR HRS: \_\_\_\_\_ COST: \_\_\_\_\_  
 REPAIR STATION: \_\_\_\_\_

CORRECTIVE ACTION: Performed Acceleration check Per Amm task  
71-00-00-700-824-F00 TEST 8 Boeing 737 Amm.

TECHNICIAN SIGNATURE: [Signature] KIND OF CERTIFICATE & NO.: 166-CAY-AMO-2014  
 INSPECTED BY: [Signature] KIND OF CERTIFICATE & NO.: 166-CAY-AMO-2014

Operator: <b>BOSCO AVIATION</b>	Model: <b>737-8AWBJ REVISION 20</b>	Work Card No.: <b>170530-3-3</b>
Serial No: <b>32806 (YD405)</b>	Date Logged: <b>30-MAY-2017</b>	Workorder No.: <b>WO 170530CBB</b>
RegNo: <b>VP-CBB</b>		

	DATE(DD/MMM/YYYY)	HOURS	CYCLES			
Due At						
Accomplished	5/30/17	10916.18	4823			

Task No	Task Description
170530-3-3	POWER ASSURANCE CHECK AT ALL THREE SPEEDS (65, 70 AND 75% N1)

P/N: \_\_\_\_\_ S/N: \_\_\_\_\_ LABOR HRS: \_\_\_\_\_ COST: \_\_\_\_\_  
 REPAIR STATION: \_\_\_\_\_

CORRECTIVE ACTION: PERFORMED POWER ASSURANCE CHECKS PER B737 AMM  
TASK 71-00-00-700-813-F00

TECHNICIAN SIGNATURE: [Signature] 5/30/17  
 KIND OF CERTIFICATE & NO.: 166-CAY-AMO-2014

INSPECTED BY: [Signature] 30 MAY 2017  
 KIND OF CERTIFICATE & NO.: 166-CAY-AMO-2014



# Work Order Tally Sheet Report

SERIAL : 32806 (YD405)  
DATE IN : UTC:5/30/2017

REGNO : VP-CBB  
DATE OUT : UTC:5/30/2017 11:00:00 PM

MODEL NAME : BBJ 737-700IGW/-800/-900ER  
ICAO : KIND

WORK ORDER #: WO 170530CBB  
SERVICE CENTER : COMLUX MALTA LTD.

ITEM NO	DESCRIPTION	TECHNICIAN	INSPECTOR
170530-1-1	ENGINE, PERFORM TEST 5 - POWER ASSURANCE CHECK AS PER B737 AMM TASK 71-00-00-700-813-F00. COMPLETE THE ATTACHED FORM ENGINE DATA AND RECORD SHEET FIGURE 501/71-00-00-990-803-F00 (SHEET 1 OF 2) AND RECORD IN THE ADDITIONAL DATA REQUIREMENTS SECTION, THE BAROMETRIC VALUE AT THE TIME OF RUN.	TECH: <u>JK000016</u> 5/30/17	INSP: <u>ORUKS</u> 5/30/17 <i>A</i>
170530-2-2	ENGINE, PERFORM ACCELERATION CHECK PER AMM TASK 71-00-00-700-824-F00 (TEST 8)	TECH: <u>JK000016</u> 5/30/17	INSP: <u>ORUKS</u> 5/30/17 <i>A</i>
170530-3-3	ENGINE, POWER ASSURANCE CHECK AT ALL THREE SPEEDS (65, 70 AND 75% N1)	TECH: <u>JK000016</u> 5/30/17	INSP: <u>ORUKS</u> 5/30/17 <i>A</i>



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30 MAY 2017

AIRPLANE DATA		ENGINE DATA				
AIRPLANE NO.	FUEL TYPE	ENG POS	ENGINE MODEL	ENGINE S/N	HMU P/N	EEC P/N
VP-CBB	JET-A	1	7B27/B3	889485	06248-4/H24	---
TANK	FUEL QUANTITY	2	7B27/B3	889487	06248-4/H24	---
NO. 1	7040	REMARKS BARO PRESS: 30.02				
NO. 2	7400	EEC Pos 1 P/N: 0748250CN1853M33P06				
CTR	8720	EEC Pos 2 P/N: 0748250CN1853M33P06				
TOTAL	23160					

ENG POS	START LEVER ADV.		INITIAL FF	LIGHTUP TIME (SEC)	STARTER CUTOUT (XN2)	MAX. EGT (°C)	MAX. FF	TIME TO IDLE (SEC)	OIL			VIBRATION (UNITS)
	XN2	MOTORING TIME (SEC)							QTY	TEMP	PRESS	
1			.78		56.3	530	.68		15	68	34	.1
2			.79		56	518	.69		17	77	30	.1

HYDRAULICS			ADDITIONAL DATA REQUIREMENTS										
HYD SYS	HYD QTY	HYD SYS PRESS	ENG POS										
		EMDP	EDP										
A			1										
B			2										

TEST NO. 5 - POWER ASSURANCE CHECK									
ENG POS	DAT OF	TARGET (XN1)	RECORDED VALUES						
			XN1		XN2		EGT		
65%	1	75	66.1	66.1	89.1	586			
	2	75	66.1	66.1	89.4	583			
70%	1	75	71.1	71.1	90.9	617			
	2	75	71.1	71.1	91.0	616			
75%	1	75	76.1	76.1	92.4	657			
	2	75	76.1	76.1	92.2	655			

G41468 S0006581760\_V1

Engine Data and Record Sheet  
Figure 501/71-00-00-990-803-F00 (Sheet 1 of 2)

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# Work Order Contents Report

SERIAL : 32806 (YD405)      REGNO : VP-CBB      WORK ORDER #: WO 170530CBB  
 DATE IN : UTC:30-May-2017 12:00 AM      DATE OUT : UTC:30-May-2017 11:00 PM      ICAO : KIND      SERVICE CENTER : COMLUX MALTA LTD.

SORT	ITEM NO	WORKCARD DESCRIPTION	COMPLIANCE	NEXT DUE	TIME REMAINING	STATUS
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1.0	170530-1-1	ENGINE, PERFORM TEST 5 - POWER ASSURANCE CHECK AS PER 8737 AMM TASK 71-00-00-700-813-F00. COMPLETE THE ATTACHED FORM ENGINE DATA AND RECORD SHEET FIGURE 501/71-00-00-990-803-F00 (SHEET 1 OF 2) AND RECORD IN THE ADDITIONAL DATA REQUIREMENTS SECTION, THE BAROMETRIC VALUE AT THE TIME OF RUN.				OPEN
2.0	170530-2-2	ENGINE, PERFORM ACCELERATION CHECK PER AMM TASK 71-00-00-700-824-F00 (TEST 8)				OPEN
3.0	170530-3-3	ENGINE, POWER ASSURANCE CHECK AT ALL THREE SPEEDS (65, 70 AND 75% N1)				OPEN

Prepared By:	S. Burkhart	Date:	30 May 2017
Approved By:	<i>Sandro Burkhart</i>	Date:	

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- (b) Look at the inside surfaces of the fan cowl panels or thrust reverser as applicable for new fuel, oil or hydraulic stains.
- (c) Do the leak check again after you replace or repair the tubes, tube flanges, fittings or components.

**F. Put the Airplane Back to Its Usual Condition**

SUBTASK 71-00-00-410-013-F00

**WARNING:** OBEY THE INSTRUCTIONS IN THE PROCEDURE TO CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) If they were opened, do this task: Close the Thrust Reverser (Selection), TASK 78-31-00-010-804-F00.

SUBTASK 71-00-00-410-014-F00

- (2) Do this task: Close the Fan Cowl Panels, TASK 71-11-02-410-801-F00.

————— END OF TASK —————

**TASK 71-00-00-700-813-F00**

**7. Test 5 - Power Assurance Check**

(Figure 503, Figure 504, and Figure 505)

**A. General**

- (1) The Power Assurance Check is not a good test for performance analysis of the engine. Do not use only the Power Assurance Check to accept or reject an engine. The power assurance run is usually not sufficiently stable to accurately calculate the engine's health. You can get a more reliable performance analysis by doing a test cell operation or on-wing performance trend monitoring.
- (2) Do this test to make sure the engine will get takeoff power without the EGT or N2 at redline limits.
- (3) For a specific %N1, this check will calculate the maximum EGT and the %N2 target values.
- (4) This check can be done at one of three different N1 speeds; 65%, 70% or 75%. It is recommended that the initial check be done at 65% N1. If that test fails, or, if it is operator policy, then do a subsequent test at the higher N1 speeds.
- (5) This procedure will also give the steps to adjust the EGT limit (make an altitude correction of the maximum EGT) when you operate the airplane at an airport above sea level. The actual EGT margin is based on the airplane route structure.

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
71-00-00-700-819-F00	Stop the Engine Procedure (Usual Engine Stop) (P/B 201)
71-00-00-800-807-F00	Start the Engine Procedure (Selection) (P/B 201)
73-21-00-700-808-F00	IDENT/CONFIG (P/B 501)
73-21-00-740-803-F00	EEC BITE TEST - RECENT FAULTS (P/B 501)

**C. Tools/Equipment**

Reference	Description
STD-1122	Thermometer - Alcohol/Mercury (or equivalent meter meets task requirements)

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**D. Power Assurance Check**

SUBTASK 71-00-00-870-005-F00

**CAUTION:** DO NOT USE THE TOTAL TEMPERATURE INDICATION FROM THE AIRPLANE FOR THE AMBIENT AIR TEMPERATURE. THIS WILL PREVENT AN INCORRECT TRIM TARGET SELECTION.

**CAUTION:** DO NOT PUT A MERCURY THERMOMETER ON THE AIRPLANE. MERCURY (FROM A BROKEN THERMOMETER) CAN CAUSE DAMAGE TO THE AIRPLANE COMPONENTS.

- (1) Use a thermometer, STD-1122 to get the ambient air temperature (OAT) in the shade of the nose wheel well.
  - (a) Record the OAT on the data sheet.

SUBTASK 71-00-00-870-005-F00

- (2) Use the OAT to get the %N1 Target speed, the Max EGT and Max %N2 for the applicable engine model and thrust rating (Figure 503, Figure 504, and Figure 505).

**NOTE:** The 7B26 and 7B26/B1 engine models are equivalent in thrust rating. The 7B27 and 7B27/B3 engine models are equivalent in thrust rating.

- (a) Record the %N1 Target, Max EGT and Max %N2 on the data sheet.
- (b) To do a check of the thrust rating, refer to the Ident/Config page, do this task: IDENT/CONFIG, TASK 73-21-00-700-808-F00
  - 1) Record the trim level for the N1 Modifier Adjustment used in the Test Results.

SUBTASK 71-00-00-860-008-F00

- (3) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 71-00-00-860-009-F00

**WARNING:** MAKE SURE YOU OBEY ALL THE INSTRUCTIONS AND PRECAUTIONS WHEN YOU OPERATE AN ENGINE AT HIGH POWER. REFER TO THE ENGINE GROUND SAFETY PRECAUTIONS TASK. IF YOU DO NOT OBEY THE INSTRUCTIONS AND PRECAUTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (4) Do this task: Start the Engine Procedure (Selection), TASK 71-00-00-800-807-F00.
  - (a) Make sure the BLEED 1 and BLEED 2 switches are in the OFF position.
  - (b) Set the applicable GEN switch to the OFF position and release.
 

**NOTE:** This will remove the load from the IDG, if it is not already removed.

    - 1) Make sure the applicable GEN OFF BUS light comes on.
  - (c) Let the engine become stable at the idle-power position for five minutes.

SUBTASK 71-00-00-860-010-F00

- (5) Make sure that the applicable switches on the overhead panel, P5, are in the OFF position:
  - (a) WING ANTI-ICE
  - (b) ENG ANTI-ICE 1 or 2.

SUBTASK 71-00-00-860-176-F00

- (6) Make sure the PROBE HEAT "A" or "B" switch on the overhead panel, P5, is in the ON position.

**NOTE:** For engine operation at high power, the EEC can go into Alternate Mode operation if neither pitot probe is heated.

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SUBTASK 71-00-00-860-011-F00

- (7) Monitor all engine parameters.
- (a) Carefully monitor the EGT and N2 indications.

SUBTASK 71-00-00-860-165-F00

- (8) Slowly move the applicable forward thrust lever to the N1 target speed that you got for the applicable MPA power level: 65%, 70% or 75%.
- (a) It is recommended that the initial check be done at 65% N1. If that test fails, or if it is operator policy, then do a subsequent test at the higher N1 speeds.
- (b) If this is a subsequent check at a higher speed, make sure the engine runs at the idle-power position for a minimum of 10 minutes before you increase the engine speed again.

SUBTASK 71-00-00-970-034-F00

- (9) Let the engine become stable at this power assurance target for a minimum of three minutes.

SUBTASK 71-00-00-970-035-F00

- (10) Record the %N1, %N2, and EGT parameters from the power assurance target on the data sheet.

SUBTASK 71-00-00-860-166-F00

- (11) Slowly move the applicable forward thrust lever to the idle-power position.

SUBTASK 71-00-00-970-036-F00

- (12) When this check is complete, make a decision if an additional check is necessary as follows:
- (a) If the test was satisfactory, you can do one of these steps:
- 1) Do the above check again at the higher N1 speed; or,
  - 2) Continue to the steps to stop the engine.

BBJ 001-004, 006, 008-018, 020, 021, 023-026, 028-037, 039, 040, 042, 043, 061, 064, 068, 070-072, 075, 076, 078, 079, 082, 083, 086, 087, 091-095, 097-099, 111-114, 116-119, 121, 122, 124, 125, 401, 404, 405, 407, 409, 410, 415-417, 901-905 PRE SB 737-30A1063

- a) Put the Probe Heat "A" and "B" switches on the overhead panel, P5, to the OFF position.

BBJ 005, 007, 019, 022, 027, 038, 041, 062, 063, 066, 073, 077, 080, 085, 096, 120, 123, 126-399, 402, 403, 406, 408, 412-414, 418-422, 906-999; BBJ 001-004, 006, 008-018, 020, 021, 023-026, 028-037, 039, 040, 042, 043, 061, 064, 068, 070-072, 075, 076, 078, 079, 082, 083, 086, 087, 091-095, 097-099, 111-114, 116-119, 121, 122, 124, 125, 401, 404, 405, 407, 409, 410, 415-417, 901-905 POST SB 737-30A1063

- b) Put the Probe Heat "A" and "B" switches on the overhead panel, P5, to the AUTO position.

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- c) Do this task: Stop the Engine Procedure (Usual Engine Stop), TASK 71-00-00-700-819-F00.

- (b) If the test is not satisfactory, do the above check again at the higher N1 speed.

**E. Test Results**

SUBTASK 71-00-00-860-012-F00

- (1) If there is a difference between the N1 target and the N1 record, do these steps to adjust the N2 and EGT indications.

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- (a) Use these steps to find if there is a positive or negative difference between the N1 target and the N1 record:
- 1) If the N1 target is more than the N1 record, there is a positive difference.
  - 2) If the N1 target is less than the N1 record, there is a negative difference.
- (b) For each 0.1% of positive difference in N1, 0.8 degrees C must be added to the EGT, and 0.03% must be added to the N2 value that you recorded during the test.
- (c) For each 0.1% of negative difference in N1, 0.8 degrees C must be subtracted from the EGT, and 0.03% must be subtracted from the N2 value that you recorded during the test.

**Table 503/71-00-00-993-925-F00 Adjustments for Difference between N1 Target and N1 Record**

Parameter	Correction Value/0.1 %N1
EGT	0.8 Degrees C
N2	0.03%

- (d) If the engine has been configured with 7BUI or higher version of the EEC software, use the data for the applicable rating in the table below to adjust the N2 margin (Table 504).

**NOTE:** For higher thrust ratings not in the table, there is no N2 margin adjustment.

**Table 504/71-00-00-993-932-F00**

Rating	N2 Margin Adjustment <sup>[1]</sup> <sup>[2]</sup>
7B24 or 7B24/3	1.2%
7B22/B1 or 7B22/3B1	1.3%
7B22 or 7B22/3	1.5%
7B20 or 7B20/3	1.7%

\*[1] The adjustment is applicable to SAC and DAC engines.

\*[2] N2 Margin (Adjusted) = Calculated N2 Margin - N2 Margin Adjustment

- (e) This is an Example Calculation for the MPA Test Table - 70% N1 of the 7B20 engine for an OAT of 10 degrees C (Figure 504):

**BBJ ALL; AIRPLANES WITH SINGLE ANNULAR COMBUSTOR (SAC) ENGINES**

**Table 505/71-00-00-993-908-F00**

FROM MPA TEST TABLE - 70% N1, OAT OF 10 DEG C
N1 TARGET = 69.4%, EGT MAX = 726 DEG C, N2 MAX = 91.8%
TEST DATA RECORDS, N1 RECORD = 69.7%, EGT RECORD = 695 DEG C
N2 RECORD = 81%
N1 TARGET < N1 RECORD, A NEGATIVE DIFFERENCE
N1 DIFF = N1 RECORD - N1 TARGET = 69.7 - 69.4 = 0.3
EGT ADJ = EGT RECORD - (0.8/0.1)(N1 DIFF) = 695 - (0.8/0.1)(0.3) = 692.6 DEG C
N2 ADJ = N2 RECORD - (0.03/0.1)(N1 DIFF) = 81% - (0.03/0.1)(0.3) = 80.9%
FIND EGT AND N2 MARGINS WITH THE VALUES OF EGT ADJ AND N2 ADJ
EGT MARGIN = EGT MAX - EGT ADJ = 726 - 692.6 = 33.4 DEG C
N2 MARGIN = N2 MAX - N2 ADJ = 91.8 - 80.9 = 10.9%

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**BBJ ALL; AIRPLANES WITH SINGLE ANNULAR COMBUSTOR (SAC) ENGINES (Continued)**

**Table 505/71-00-00-993-908-F00 (Continued)**

N2 Margin (Adjusted) =

10.9% (Calculated N2 Margin) - 1.7% (N2 Margin Adjustment) = 9.2%. <sup>[1][2]</sup>

\*[1] Get the N2 margin adjustment from Table 504

\*[2] Adjust the N2 margin for engines configured with 7BUI or higher software.

**BBJ ALL**

SUBTASK 71-00-00-970-037-F00

(2) To adjust the EGT margin for altitude, do these steps:

- (a) Find the Altitude Correction Adjustment for the applicable engine and altitude in the table.
  - 1) Use the highest altitude on the airplane's route structure.
  - 2) The EGT corrections shown are for takeoff worst case flight condition and includes ambient temperature and altitude effects.
  - 3) Linear interpolation is necessary for altitudes between the table values.
- (b) Subtract the altitude adjustment value from the calculated EGT margin.

**Table 506/71-00-00-993-911-F00 Altitude Adjustment Factors**

ALTITUDE FEET	ENGINE MODEL <sup>[1]</sup>								
	7B20	7B22	7B22/B1	7B24	7B24/B1	7B26 7B26/B1	7B26/B2	7B27 7B27/B3	7B27/B1
<0	24	0	0	0	5	7	0	0	0
0	24	0	0	0	5	7	0	0	0
1000	24	0	0	0	6	7	0	2	0
2000	24	0	0	0	7	8	0	3	0
3000	24	0	0	0	7	8	0	5	0
4000	24	0	0	0	8	6	0	5	0
5000	24	0	0	0	5	4	0	0	0
6000	18	0	0	0	3	0	0	0	0
7000	12	0	0	0	0	0	0	0	0
8000	6	0	0	0	0	0	0	0	0
9000	0	0	0	0	0	0	0	0	0
>9000	0	0	0	0	0	0	0	0	0

\*[1] APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

- (c) To continue the same Example Calculation for altitude adjustment, assume the highest airport is at 4000 feet.

**BBJ ALL; AIRPLANES WITH SINGLE ANNULAR COMBUSTOR (SAC) ENGINES**

**Table 507/71-00-00-993-912-F00**

FOR A 7B20, 4000 FT ALTITUDE, ALTITUDE ADJUSTMENT FACTOR = 24

EGT MARGIN ALT = EGT MARGIN - ALTITUDE ADJUSTMENT FACTOR

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BBJ ALL; AIRPLANES WITH SINGLE ANNULAR COMBUSTOR (SAC) ENGINES (Continued)

Table 507/71-00-00-993-912-F00 (Continued)

$$= 33.4 - 24$$

$$= 9.4 \text{ DEG C}$$

**BBJ ALL**

SUBTASK 71-00-00-970-055-F00

- (3) To adjust the EGT margin for N1 modifiers, do these steps:
- Find the N1 Modifier Adjustment for the applicable engine model and trim level.
    - To find the trim level, do this task: IDENT/CONFIG, TASK 73-21-00-700-808-F00.
  - Add the adjustment to the calculated EGT margin.

Table 508/71-00-00-993-909-F00 N1 Modifier Adjustments

TRIM LEVEL	ENGINE MODEL <sup>(1)</sup>							
	7B20	7B22	7B22/B1	7B24	7B24/B1	7B26 7B26/B1 7B26/B2	7B27 7B27/B3	7B27/B1
0	0	0	0	0	0	0	0	0
1	2	2	2	1	1	6	3	3
2	3	3	3	3	3	8	6	5
3	4	5	5	5	5	10	9	8
4	6	6	7	7	7	12	12	11
5	7	8	8	8	8	14	14	15
6	8	9	10	10	10	15	17	18
7	10	11	11	11	12	17	19	20

<sup>(1)</sup> APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

- (c) To continue the same Example Calculation for N1 Modifier, assume the trim level is 4.

**BBJ ALL; AIRPLANES WITH SINGLE ANNULAR COMBUSTOR (SAC) ENGINES**

Table 509/71-00-00-993-910-F00

FOR A 7B20 WITH TRIM LEVEL OF 4, N1 MODIFIER ADJUSTMENT = 6

EGT MARGIN MODIFIED = EGT MARGIN ALT + N1 MODIFIER ADJUSTMENT

$$= 9.4 + 6$$

$$= 15.4 \text{ DEG C}$$

**BBJ ALL**

SUBTASK 71-00-00-970-058-F00

- (4) If the 65% N1 power assurance check is not satisfactory, do the test again at 70% N1.
- If the 70% N1 power assurance check is not satisfactory, do the test again at 75% N1.
    - If the 75% N1 power assurance check is not satisfactory, do this task: EEC BITE TEST - RECENT FAULTS, TASK 73-21-00-740-803-F00.

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- a) If you find and correct the cause, do the test again at the first power level that failed.
- b) If you do not find the cause, use your airline policy to make the decision if the engine must be replaced.

———— **END OF TASK** ————

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## SUBTASK 71-00-00-970-088-F00

- (11) If the test is to get vibration data for an on-board fan trim balance, view the flight history data (TASK 71-00-00-750-802-F00 or TASK 71-00-00-750-806-F00 or TASK 71-00-00-750-805-F00 or TASK 71-00-00-750-804-F00 or TASK 71-00-00-750-803-F00).

## SUBTASK 71-00-00-810-001-F00

- (12) If the vibration indications for the fan and low pressure turbine rotor (N1) is more than 4.0 units or is less than 4.0 units with engine noise or rumble, do the fault isolation procedure for high engine vibration FIM 71-05 TASK 808.

## SUBTASK 71-00-00-810-002-F00

- (13) If the vibration indications for the high pressure compressor and turbine (N2) is more than 3.0 units, do the fault isolation procedure for high engine vibration FIM 71-05 TASK 808.

### I. Put the Airplane Back to Its Usual Condition

## SUBTASK 71-00-00-080-006-F00

- (1) If you installed the portable engine balancing system, COM-3932, remove the analyzer.

## SUBTASK 71-00-00-010-022-F00

- (2) If you installed the analyzer, COM-1562, do these steps to remove the analyzer:
- (a) Disconnect the analyzer, COM-1562 from the test box, SPL-2415.
  - (b) Do this step:  
open this access panel:  

<u>Number</u>	<u>Name/Location</u>
117A	Electronic Equipment Access Door
  - (c) Remove the test box, SPL-2415 from the flight compartment window and close the window.
  - (d) Disconnect the test box, SPL-2415 from the front panel of the airborne vibration monitor (AVM) signal conditioner.
  - (e) Remove the analyzer, COM-1562 from the flight compartment.
  - (f) Do this step:  
Close this access panel:  

<u>Number</u>	<u>Name/Location</u>
117A	Electronic Equipment Access Door

————— END OF TASK —————

## TASK 71-00-00-700-824-F00

### 9. Test 8 - Acceleration Check

#### A. General

- (1) The acceleration check is a good test for transient performance analysis of the engine.
  - (a) Do not use the test by itself to accept or reject an engine.
- (2) Do this test to make sure the engine has usual acceleration performance.

#### B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
71-00-00-700-819-F00	Stop the Engine Procedure (Usual Engine Stop) (P/B 201)

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Reference	Title
71-00-00-800-805-F00	Engine Ground Safety Precautions (P/B 201)
71-00-00-800-807-F00	Start the Engine Procedure (Selection) (P/B 201)
73-21-00-740-803-F00	EEC BITE TEST - RECENT FAULTS (P/B 501)
FIM 73-05 TASK 814	Engine is Slow to Accelerate - Fault Isolation

**C. Tools/Equipment**

Reference	Description
STD-1122	Thermometer - Alcohol/Mercury (or equivalent meter meets task requirements)
STD-1139	Timer - Stop Watch, Accurate to 1 Second

**D. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
411	Engine 1 - Engine
421	Engine 2 - Engine

**E. Acceleration Check**

SUBTASK 71-00-00-970-056-F00

**CAUTION:** DO NOT USE THE TOTAL TEMPERATURE INDICATION FROM THE AIRPLANE FOR THE AMBIENT AIR TEMPERATURE. THIS WILL PREVENT AN INCORRECT TRIM TARGET SELECTION.

**CAUTION:** DO NOT PUT A MERCURY THERMOMETER ON THE AIRPLANE. MERCURY (FROM A BROKEN THERMOMETER) CAN CAUSE DAMAGE TO THE AIRPLANE COMPONENTS.

- (1) Use a thermometer, STD-1122 to get the ambient air temperature (OAT) in the shade of the nose wheel well.
  - (a) Record the OAT on the data sheet.

SUBTASK 71-00-00-970-057-F00

- (2) Use the OAT to get the N1 target speed and the N2 starting point:
  - (a) For N1, use the MPA Test Table - 70% N1 Corrected Fan Speed (Figure 504).
  - (b) For N2, use the (Table 510).
  - (c) Record the N1 and N2 speeds for the OAT on the data sheet.

SUBTASK 71-00-00-860-182-F00

- (3) If not already done, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 71-00-00-860-183-F00

**WARNING:** MAKE SURE THAT YOU OBEY ALL THE INSTRUCTIONS AND PRECAUTIONS WHEN YOU OPERATE AN ENGINE AT HIGH POWER. REFER TO THIS TASK: ENGINE GROUND SAFETY PRECAUTIONS ENGINE GROUND SAFETY PRECAUTIONS, TASK 71-00-00-800-805-F00. IF YOU DO NOT OBEY THE INSTRUCTIONS AND PRECAUTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (4) Do this task: Start the Engine Procedure (Selection), TASK 71-00-00-800-807-F00.

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- (a) Make sure the BLEED 1 and BLEED 2 switches are in the OFF position.
- (b) Set the applicable GEN switch to the OFF position and release.

**NOTE:** This will remove the load from the IDG, if it is not already removed.

- 1) Make sure the applicable GEN OFF BUS light comes on.
- (c) Let the engine become stable at the idle-power position for five minutes.

## SUBTASK 71-00-00-860-184-F00

- (5) Make sure that the applicable switches on the overhead panel, P5, are in the OFF position:

- (a) WING ANTI-ICE
- (b) ENG ANTI-ICE 1 or 2.

## SUBTASK 71-00-00-860-185-F00

- (6) Make sure the PROBE HEAT "A" or "B" switch on the overhead panel, P5, is in the ON position.

**NOTE:** For engine operation at high power, the EEC can go into Alternate Mode operation if neither pitot probe is heated.

## SUBTASK 71-00-00-860-186-F00

- (7) Monitor all engine parameters.
  - (a) Carefully monitor the EGT and N2 indications.

## SUBTASK 71-00-00-700-001-F00

- (8) To do the acceleration check with the N1 and N2 speeds, use a stopwatch, STD-1139 and do these thrust lever movements:
  - (a) Slowly move the applicable forward thrust lever to 5% N1 speed more than the N1 target speed that you got from the MPA Test Table (70% N1) (Figure 504).
  - (b) Mark the thrust lever position (control stand) with a piece of tape or pencil.
    - 1) Minimize the amount of time spent at more than idle.
  - (c) To decelerate, slowly move the applicable forward thrust lever back to the N2 starting point +/-0.3% (Table 510).
  - (d) When the engine parameters are stable, quickly move the thrust lever to the marked position.
  - (e) Start the stopwatch at the initial thrust lever movement.
  - (f) Stop the stopwatch when N1 is at the N1 MPA target speed (not target + 5%).
  - (g) Slowly move the applicable thrust lever back to the idle position.
  - (h) Record the acceleration time on the data sheet.
  - (i) If the test is performed above sea level, subtract 0.25 seconds for each 1000 feet altitude from the recorded acceleration time.
    - 1) Record the adjusted acceleration time on the data sheet.
  - (j) Make sure the adjusted acceleration time is less than 6.3 seconds.
  - (k) If the adjusted acceleration time is not in the limits, do this task: Engine is Slow to Accelerate - Fault Isolation, FIM 73-05 TASK 814.

## SUBTASK 71-00-00-860-187-F00

- (9) When the acceleration check is complete, do these tasks:

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BBJ 001-004, 006, 008-018, 020, 021, 023-026, 028-037, 039, 040, 042, 043, 061, 064, 068, 070-072, 075, 076, 078, 079, 082, 083, 086, 087, 091-095, 097-099, 111-114, 116-119, 121, 122, 124, 125, 401, 404, 405, 407, 409, 410, 415-417, 901-905 PRE SB 737-30A1063

(a) Put the Probe Heat "A" and "B" switches on the overhead panel, P5, to the OFF position.

BBJ 005, 007, 019, 022, 027, 038, 041, 062, 063, 066, 073, 077, 080, 085, 096, 120, 123, 126-399, 402, 403, 406, 408, 412-414, 418-422, 906-999; BBJ 001-004, 006, 008-018, 020, 021, 023-026, 028-037, 039, 040, 042, 043, 061, 064, 068, 070-072, 075, 076, 078, 079, 082, 083, 086, 087, 091-095, 097-099, 111-114, 116-119, 121, 122, 124, 125, 401, 404, 405, 407, 409, 410, 415-417, 901-905 POST SB 737-30A1063

(b) Put the Probe Heat "A" and "B" switches on the overhead panel, P5, to the AUTO position.

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(c) Stop the Engine Procedure (Usual Engine Stop), TASK 71-00-00-700-819-F00

SUBTASK 71-00-00-860-189-F00

(10) Do this task: EEC BITE TEST - RECENT FAULTS, TASK 73-21-00-740-803-F00.

SUBTASK 71-00-00-860-189-F00

(11) The table below shows the N2/OAT Acceleration Test data (Table 510):

**Table 510/71-00-00-993-882-F00**

OAT Deg F (C)	%N2						
-40 (-40)	65.0	1 (-17)	68.1	43 (6)	71.1	84 (29)	74.0
-38 (-39)	65.1	3 (-16)	68.3	45 (7)	71.3	86 (30)	74.2
-36 (-38)	65.3	5 (-15)	68.4	46 (8)	71.4	88 (31)	74.3
-35 (-37)	65.4	7 (-14)	68.6	48 (9)	71.5	90 (32)	74.4
-33 (-36)	65.5	9 (-13)	68.7	50 (10)	71.7	91 (33)	74.5
-31 (-35)	65.7	10 (-12)	68.8	52 (11)	71.8	93 (34)	74.6
-29 (-34)	65.8	12 (-11)	69.0	54 (12)	71.9	95 (35)	74.8
-27 (-33)	66.0	14 (-10)	69.1	55 (13)	72.0	97 (36)	74.9
-26 (-32)	66.1	16 (-9)	69.2	57 (14)	72.2	99 (37)	75.0
-24 (-31)	66.2	18 (-8)	69.4	59 (15)	72.3	100 (38)	75.1
-22 (-30)	66.4	19 (-7)	69.5	61 (16)	72.4	102 (39)	75.3
-20 (-29)	66.5	21 (-6)	69.6	63 (17)	72.6	104 (40)	75.4
-18 (-28)	66.7	23 (-5)	69.7	64 (18)	72.7	106 (41)	75.5
-17 (-27)	66.8	25 (-4)	69.9	66 (19)	72.8	108 (42)	75.6
-15 (-26)	66.9	27 (-3)	70.0	68 (20)	72.9	109 (43)	75.7
-13 (-25)	67.1	28 (-2)	70.1	70 (21)	73.0	111 (44)	75.9
-11 (-24)	67.2	30 (-1)	70.3	72 (22)	73.2	113 (45)	76.0
-9 (-23)	67.4	32 (0)	70.4	73 (23)	73.3	115 (46)	76.1
-8 (-22)	67.5	34 (1)	70.5	75 (24)	73.4	117 (47)	76.2
-6 (-21)	67.6	36 (2)	70.6	77 (25)	73.5	118 (48)	76.3
-4 (-20)	67.8	37 (3)	70.8	79 (26)	73.7	120 (49)	76.5

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Table 510/71-00-00-993-882-F00 (Continued)

OAT Deg F (C)	%N2						
-2 (-19)	67.9	39 (4)	70.9	81 (27)	73.8	122 (50)	76.6
0 (-18)	68.0	41 (5)	71.0	82 (28)	73.9		

————— END OF TASK —————

**TASK 71-00-00-700-816-F00****10. Test 9 - Replacement Engine Test (Pretested)****A. General**

- (1) This test does the checks that are necessary when a new pretested engine is installed on an airplane.
- (2) A pretested engine is a complete engine, with or without the Boeing quick-engine-change (QEC) parts, that was operated satisfactorily in an approved test cell or if engine was previously removed for convenience or time staggering.
- (3) If the replacement engine was not pretested, do this procedure: Test 10 - Replacement Engine Test (Untested) to do a check of the engine installation and operation.
- (4) This procedure will do all the necessary checks for the Boeing QEC components on the engine.

**B. References**

Reference	Title
24-11-00-700-802	Operational Test For Number 1 IDG (P/B 501)
24-11-00-700-803	Operational Test For Number 2 IDG (P/B 501)
26-11-00-710-801	Engine Fire Detection - Operational Test (P/B 501)
29-11-00-860-804	Hydraulic System A or B Pressurization with an Engine-Driven Pump (EDP) (P/B 201)
30-21-00-710-801	Engine Cowl Anti-Icing - Operational Test (P/B 501)
36-00-00-860-801	Supply Pressure to the Pneumatic System (Selection) (P/B 201)
36-11-04-400-801	PRSOV Installation (P/B 401)
71-00-03-600-803-F00	Depreservation of an Engine On-Wing (Task Selection) (P/B 201)
71-71-00-200-801-F00	Engine Vents and Drains Inspection (P/B 601)
73-21-00-700-804-F00	EEC TEST (P/B 501)
73-21-00-700-808-F00	IDENT/CONFIG (P/B 501)
73-21-00-700-809-F00	EEC Discretes Test (P/B 501)
73-21-00-740-803-F00	EEC BITE TEST - RECENT FAULTS (P/B 501)
73-21-00-800-801-F00	Erase All EEC Faults (P/B 501)
79-00-00-710-806-F00	DMS Operational Check (P/B 601)

**C. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
411	Engine 1 - Engine
421	Engine 2 - Engine

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65%

OAT		XN1 TARGET	MAX EGT - °C							
			ENGINE MODEL 1							
°F	°C	±0.5%	7B27/B1	7B27	7B26	7B24/B1	7B24	7B22/B1	7B22	7B20
				7B27/B3	7B26/B1 7B26/B2					
-40	-40	58.6	443	442	461	465	501	503	524	553
-38	-39	58.7	446	445	464	468	504	506	527	556
-36	-38	58.8	450	449	468	472	508	510	531	560
-35	-37	58.9	453	452	471	475	511	513	534	563
-33	-36	59.1	456	455	474	478	514	516	537	566
-31	-35	59.2	460	459	478	482	518	520	541	570
-29	-34	59.3	463	462	481	485	521	523	544	573
-27	-33	59.4	466	465	484	488	524	526	547	576
-26	-32	59.5	470	469	488	492	528	530	551	580
-24	-31	59.7	473	472	491	495	531	533	554	583
-22	-30	59.8	476	475	494	498	534	536	557	586
-20	-29	59.9	480	479	498	502	538	540	561	590
-18	-28	60.0	483	482	501	505	541	543	564	593
-17	-27	60.2	486	485	504	508	544	546	567	596
-15	-26	60.3	490	489	508	512	548	550	571	600
-13	-25	60.4	493	492	511	515	551	553	574	603
-11	-24	60.5	496	495	514	518	554	556	577	606
-9	-23	60.6	498	497	516	520	556	558	579	608
-8	-22	60.7	501	500	519	523	559	561	582	611
-6	-21	60.9	503	502	521	525	561	563	584	613
-4	-20	61.0	506	505	524	528	564	566	587	616
-2	-19	61.1	508	507	526	530	566	568	589	618
0	-18	61.2	511	510	529	533	569	571	592	621
1	-17	61.3	513	512	531	535	571	573	594	623
3	-16	61.5	516	515	534	538	574	576	597	626
5	-15	61.6	518	517	536	540	576	578	599	628
7	-14	61.7	521	520	539	543	579	581	602	631
9	-13	61.8	524	523	542	546	582	584	605	634
10	-12	61.9	526	525	544	548	584	586	607	636
12	-11	62.0	528	527	546	550	586	588	609	638
14	-10	62.2	531	530	549	553	589	591	612	641
16	-9	62.3	533	532	551	555	591	593	614	643
18	-8	62.4	536	535	554	558	594	596	617	646
19	-7	62.5	538	537	556	560	596	598	619	648
21	-6	62.6	541	540	559	563	599	601	622	651
23	-5	62.7	543	542	561	565	601	603	624	653
25	-4	62.9	546	545	564	568	604	606	627	656

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156640-00-A (MOD)

G84819 S0006581785\_V4

MPA Test Table (65 Percent N1 Corrected Fan Speed)  
Figure 503/71-00-00-990-820-F00 (Sheet 1 of 6)

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OAT		XN1 TARGET	MAX EGT - °C							
			ENGINE MODEL 1							
°F	°C	±0.5%	7B27/B1	7B27	7B26	7B24/B1	7B24	7B22/B1	7B22	7B20
				7B27/B3	7B26/B1 7B26/B2					
27	-3	63.0	548	547	566	570	606	608	629	658
28	-2	63.1	550	549	568	572	608	610	631	660
30	-1	63.2	552	551	570	574	610	612	633	662
32	0	63.3	555	554	573	577	613	615	636	665
34	1	63.4	557	556	575	579	615	617	638	667
36	2	63.5	559	558	577	581	617	619	640	669
37	3	63.7	561	560	579	583	619	621	642	671
39	4	63.8	563	562	581	585	621	623	644	673
41	5	63.9	565	564	583	587	623	625	646	675
43	6	64.0	567	566	585	589	625	627	648	677
45	7	64.1	570	569	588	592	628	630	651	680
46	8	64.2	572	571	590	594	630	632	653	682
48	9	64.3	574	573	592	596	632	634	655	684
50	10	64.4	576	575	594	598	634	636	657	686
52	11	64.6	578	577	596	600	636	638	659	688
54	12	64.7	579	578	597	601	637	639	660	689
55	13	64.8	581	580	599	603	639	641	662	691
57	14	64.9	583	582	601	605	641	643	664	693
59	15	65.0	585	584	603	607	643	645	666	695
61	16	65.1	586	585	604	608	644	646	667	696
63	17	65.2	588	587	606	610	646	648	669	698
64	18	65.3	590	589	608	612	648	650	671	700
66	19	65.4	592	591	610	614	650	652	673	702
68	20	65.6	594	593	612	616	652	654	675	704
70	21	65.7	596	595	614	618	654	656	677	706
72	22	65.8	598	597	616	620	656	658	679	708
73	23	65.9	600	599	618	622	658	660	681	710
75	24	66.0	602	601	620	624	660	662	683	712
77	25	66.1	604	603	622	626	662	664	685	714
79	26	66.2	606	605	624	628	664	666	687	716
81	27	66.3	608	607	626	630	666	668	689	718
82	28	66.4	611	610	629	633	669	671	692	721
84	29	66.5	613	612	631	635	671	673	694	723
86	30	66.6	615	614	633	637	673	675	696	725
88	31	66.8	617	616	635	639	675	677	698	727
90	32	66.9	619	618	637	641	677	679	700	729
91	33	67.0	621	620	639	643	679	681	702	731

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156641-00-A (MOD)

G84837 S0006581786\_V4

MPA Test Table (65 Percent N1 Corrected Fan Speed)  
Figure 503/71-00-00-990-820-F00 (Sheet 2 of 6)

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OAT		XN1 TARGET	MAX EGT - °C							
°F	°C		±0.5%	ENGINE MODEL <sup>1</sup>						
		7B27/B1		7B27 7B27/B3	7B26 7B26/B1 7B26/B2	7B24/B1	7B24	7B22/B1	7B22	7B20
93	34	67.1	623	622	641	645	681	683	704	733
95	35	67.2	625	624	643	647	683	685	706	735
97	36	67.3	628	627	646	650	686	688	709	738
99	37	67.4	630	629	648	652	688	690	711	740
100	38	67.5	632	631	650	654	690	692	713	742
102	39	67.6	634	633	652	656	692	694	715	744
104	40	67.7	637	636	655	659	695	697	718	747
106	41	67.8	639	638	657	661	697	699	720	749
108	42	67.9	641	640	659	663	699	701	722	751
109	43	68.0	643	642	661	665	701	703	724	753
111	44	68.1	645	644	663	667	703	705	726	755
113	45	68.2	647	646	665	669	705	707	728	757
115	46	68.4	649	648	667	671	707	709	730	759
117	47	68.5	651	650	669	673	709	711	732	761
118	48	68.6	653	652	671	675	711	713	734	763
120	49	68.7	655	654	673	677	713	715	736	765
122	50	68.8	657	656	675	679	715	717	738	767

<sup>1</sup> APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156641-00-A

G86614 S0006581787\_V4

MPA Test Table (65 Percent N1 Corrected Fan Speed)  
Figure 503/71-00-00-990-820-F00 (Sheet 3 of 6)

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OAT		%N1 TARGET	MAX %N2							
			ENGINE MODEL <span style="border: 1px solid black; padding: 0 2px;">1</span>							
'F	'C	±0.5%	7B27/B1	7B27	7B26	7B24/B1	7B24	7B22/B1	7B22	7B20
				7B27/B3	7B26/B1 7B26/B2					
-40	-40	58.6	79.8	79.8	79.7	80.3	80.9	81.5	81.6	81.9
-38	-39	58.7	80.0	80.0	79.9	80.5	81.1	81.7	81.8	82.1
-36	-38	58.8	80.1	80.1	80.0	80.6	81.2	81.8	81.9	82.2
-35	-37	58.9	80.3	80.3	80.2	80.8	81.4	82.0	82.1	82.4
-33	-36	59.1	80.5	80.5	80.4	81.0	81.6	82.2	82.3	82.6
-31	-35	59.2	80.6	80.6	80.5	81.1	81.7	82.3	82.4	82.7
-29	-34	59.3	80.8	80.8	80.7	81.3	81.9	82.5	82.6	82.9
-27	-33	59.4	80.9	80.9	80.8	81.4	82.0	82.6	82.7	83.0
-26	-32	59.5	81.1	81.1	81.0	81.6	82.2	82.8	82.9	83.2
-24	-31	59.7	81.3	81.3	81.2	81.8	82.4	83.0	83.1	83.4
-22	-30	59.8	81.4	81.4	81.3	81.9	82.5	83.1	83.2	83.5
-20	-29	59.9	81.6	81.6	81.5	82.1	82.7	83.3	83.4	83.7
-18	-28	60.0	81.7	81.7	81.6	82.2	82.8	83.4	83.5	83.8
-17	-27	60.2	81.9	81.9	81.8	82.4	83.0	83.6	83.7	84.0
-15	-26	60.3	82.0	82.0	81.9	82.5	83.1	83.7	83.8	84.1
-13	-25	60.4	82.2	82.2	82.1	82.7	83.3	83.9	84.0	84.3
-11	-24	60.5	82.4	82.4	82.3	82.9	83.5	84.1	84.2	84.5
-9	-23	60.6	82.5	82.5	82.4	83.0	83.6	84.2	84.3	84.6
-8	-22	60.7	82.7	82.7	82.6	83.2	83.8	84.4	84.5	84.8
-6	-21	60.9	82.8	82.8	82.7	83.3	83.9	84.5	84.6	84.9
-4	-20	61.0	83.0	83.0	82.9	83.5	84.1	84.7	84.8	85.1
-2	-19	61.1	83.2	83.2	83.1	83.7	84.3	84.9	85.0	85.3
0	-18	61.2	83.3	83.3	83.2	83.8	84.4	85.0	85.1	85.4
1	-17	61.3	83.5	83.5	83.4	84.0	84.6	85.2	85.3	85.6
3	-16	61.5	83.7	83.7	83.6	84.2	84.8	85.4	85.5	85.8
5	-15	61.6	83.8	83.8	83.7	84.3	84.9	85.5	85.6	85.9
7	-14	61.7	84.0	84.0	83.9	84.5	85.1	85.7	85.8	86.1
9	-13	61.8	84.2	84.2	84.1	84.7	85.3	85.9	86.0	86.3
10	-12	61.9	84.3	84.3	84.2	84.8	85.4	86.0	86.1	86.4
12	-11	62.0	84.5	84.5	84.4	85.0	85.6	86.2	86.3	86.6
14	-10	62.2	84.6	84.6	84.5	85.1	85.7	86.3	86.4	86.7
16	-9	62.3	84.8	84.8	84.7	85.3	85.9	86.5	86.6	86.9
18	-8	62.4	85.0	85.0	84.9	85.5	86.1	86.7	86.8	87.1
19	-7	62.5	85.1	85.1	85.0	85.6	86.2	86.8	86.9	87.2
21	-6	62.6	85.3	85.3	85.2	85.8	86.4	87.0	87.1	87.4
23	-5	62.7	85.5	85.5	85.4	86.0	86.6	87.2	87.3	87.6
25	-4	62.9	85.6	85.6	85.5	86.1	86.7	87.3	87.4	87.7

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156642-00-A (MOD)

H48528 S0006581788\_V4

MPA Test Table (65 Percent N1 Corrected Fan Speed)  
Figure 503/71-00-00-990-820-F00 (Sheet 4 of 6)

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OAT		XN1 TARGET	MAX XN2							
'F	'C		±0.5%	ENGINE MODEL 1						
		7B27/B1		7B27/B3	7B26/B1 7B26/B2	7B24/B1	7B24	7B22/B1	7B22	7B20
27	-3	63.0	85.8	85.8	85.7	86.3	86.9	87.5	87.6	87.9
28	-2	63.1	86.0	86.0	85.9	86.5	87.1	87.7	87.8	88.1
30	-1	63.2	86.1	86.1	86.0	86.6	87.2	87.8	87.9	88.2
32	0	63.3	86.3	86.3	86.2	86.8	87.4	88.0	88.1	88.4
34	1	63.4	86.5	86.5	86.4	87.0	87.6	88.2	88.3	88.6
36	2	63.5	86.6	86.6	86.5	87.1	87.7	88.3	88.4	88.7
37	3	63.7	86.8	86.8	86.7	87.3	87.9	88.5	88.6	88.9
39	4	63.8	87.0	87.0	86.9	87.5	88.1	88.7	88.8	89.1
41	5	63.9	87.1	87.1	87.0	87.6	88.2	88.8	88.9	89.2
43	6	64.0	87.3	87.3	87.2	87.8	88.4	89.0	89.1	89.4
45	7	64.1	87.4	87.4	87.3	87.9	88.5	89.1	89.2	89.5
46	8	64.2	87.6	87.6	87.5	88.1	88.7	89.3	89.4	89.7
48	9	64.3	87.8	87.8	87.7	88.3	88.9	89.5	89.6	89.9
50	10	64.4	87.9	87.9	87.8	88.4	89.0	89.6	89.7	90.0
52	11	64.6	88.1	88.1	88.0	88.6	89.2	89.8	89.9	90.2
54	12	64.7	88.3	88.3	88.2	88.8	89.4	90.0	90.1	90.4
55	13	64.8	88.4	88.4	88.3	88.9	89.5	90.1	90.2	90.5
57	14	64.9	88.6	88.6	88.5	89.1	89.7	90.3	90.4	90.7
59	15	65.0	88.8	88.8	88.7	89.3	89.9	90.5	90.6	90.9
61	16	65.1	88.9	88.9	88.8	89.4	90.0	90.6	90.7	91.0
63	17	65.2	89.1	89.1	89.0	89.6	90.2	90.8	90.9	91.2
64	18	65.3	89.2	89.2	89.1	89.7	90.3	90.9	91.0	91.3
66	19	65.4	89.4	89.4	89.3	89.9	90.5	91.1	91.2	91.5
68	20	65.6	89.6	89.6	89.5	90.1	90.7	91.3	91.4	91.7
70	21	65.7	89.7	89.7	89.6	90.2	90.8	91.4	91.5	91.8
72	22	65.8	89.9	89.9	89.8	90.4	91.0	91.6	91.7	92.0
73	23	65.9	90.0	90.0	89.9	90.5	91.1	91.7	91.8	92.1
75	24	66.0	90.2	90.2	90.1	90.7	91.3	91.9	92.0	92.3
77	25	66.1	90.3	90.3	90.2	90.8	91.4	92.0	92.1	92.4
79	26	66.2	90.5	90.5	90.4	91.0	91.6	92.2	92.3	92.6
81	27	66.3	90.6	90.6	90.5	91.1	91.7	92.3	92.4	92.7
82	28	66.4	90.8	90.8	90.7	91.3	91.9	92.5	92.6	92.9
84	29	66.5	90.9	90.9	90.8	91.4	92.0	92.6	92.7	93.0
86	30	66.6	91.1	91.1	91.0	91.6	92.2	92.8	92.9	93.2
88	31	66.8	91.3	91.3	91.2	91.8	92.4	93.0	93.1	93.4
90	32	66.9	91.4	91.4	91.3	91.9	92.5	93.1	93.2	93.5
91	33	67.0	91.6	91.6	91.5	92.1	92.7	93.3	93.4	93.7

1 APPLICABLE TO ALL /3, /3F AND -7BE RATINGS

GMM-1156642-00-A (MOD)  
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MPA Test Table (65 Percent N1 Corrected Fan Speed)  
Figure 503/71-00-00-990-820-F00 (Sheet 5 of 6)

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OAT		%N1 TARGET	MAX %N2							
°F	°C		±0.5%	ENGINE MODEL 1						
		7B27/B1		7B27/B3	7B26/B1 7B26/B2	7B24/B1	7B24	7B22/B1	7B22	7B20
93	34	67.1	91.7	91.7	91.6	92.2	92.8	93.4	93.5	93.8
95	35	67.2	91.9	91.9	91.8	92.4	93.0	93.6	93.7	94.0
97	36	67.3	92.0	92.0	91.9	92.5	93.1	93.7	93.8	94.1
99	37	67.4	92.2	92.2	92.1	92.7	93.3	93.9	94.0	94.3
100	38	67.5	92.3	92.3	92.2	92.8	93.4	94.0	94.1	94.4
102	39	67.6	92.5	92.5	92.4	93.0	93.6	94.2	94.3	94.6
104	40	67.7	92.6	92.6	92.5	93.1	93.7	94.3	94.4	94.7
106	41	67.8	92.8	92.8	92.7	93.3	93.9	94.5	94.6	94.9
108	42	67.9	92.9	92.9	92.8	93.4	94.0	94.6	94.7	95.0
109	43	68.0	93.1	93.1	93.0	93.6	94.2	94.8	94.9	95.2
111	44	68.1	93.2	93.2	93.1	93.7	94.3	94.9	95.0	95.3
113	45	68.2	93.4	93.4	93.3	93.9	94.5	95.1	95.2	95.5
115	46	68.4	93.5	93.5	93.4	94.0	94.6	95.2	95.3	95.6
117	47	68.5	93.7	93.7	93.6	94.2	94.8	95.4	95.5	95.8
118	48	68.6	93.8	93.8	93.7	94.3	94.9	95.5	95.6	95.9
120	49	68.7	94.0	94.0	93.9	94.5	95.1	95.7	95.8	96.1
122	50	68.8	94.1	94.1	94.0	94.6	95.2	95.8	95.9	96.2

1 APPLICABLE TO ALL /3, /3F AND -7BE RATINGS

GMM-1156644-00-A (MOD)

H48587 S0006581790\_V4

MPA Test Table (65 Percent N1 Corrected Fan Speed)  
Figure 503/71-00-00-990-820-F00 (Sheet 6 of 6)

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70%

OAT		XN1 TARGET	MAX EGT - °C							
°F	°C		±0.5%	ENGINE MODEL 1						
		7B27/B1		7B27/B3	7B26/B1	7B24/B1	7B24	7B22/B1	7B22	7B20
-40	-40	63.1	485	484	503	507	543	545	566	595
-38	-39	63.2	489	488	507	511	547	549	570	599
-36	-38	63.4	493	492	511	515	551	553	574	603
-35	-37	63.5	496	495	514	518	554	556	577	606
-33	-36	63.6	500	499	518	522	558	560	581	610
-31	-35	63.7	503	502	521	525	561	563	584	613
-29	-34	63.9	506	505	524	528	564	566	587	616
-27	-33	64.0	509	508	527	531	567	569	590	619
-26	-32	64.1	511	510	529	533	569	571	592	621
-24	-31	64.3	514	513	532	536	572	574	595	624
-22	-30	64.4	517	516	535	539	575	577	598	627
-20	-29	64.5	519	518	537	541	577	579	600	629
-18	-28	64.7	522	521	540	544	580	582	603	632
-17	-27	64.8	525	524	543	547	583	585	606	635
-15	-26	64.9	528	527	546	550	586	588	609	638
-13	-25	65.0	530	529	548	552	588	590	611	640
-11	-24	65.2	533	532	551	555	591	593	614	643
-9	-23	65.3	536	535	554	558	594	596	617	646
-8	-22	65.4	538	537	556	560	596	598	619	648
-6	-21	65.6	541	540	559	563	599	601	622	651
-4	-20	65.7	543	542	561	565	601	603	624	653
-2	-19	65.8	546	545	564	568	604	606	627	656
0	-18	65.9	549	548	567	571	607	609	630	659
1	-17	66.1	551	550	569	573	609	611	632	661
3	-16	66.2	554	553	572	576	612	614	635	664
5	-15	66.3	557	556	575	579	615	617	638	667
7	-14	66.4	559	558	577	581	617	619	640	669
9	-13	66.6	561	560	579	583	619	621	642	671
10	-12	66.7	564	563	582	586	622	624	645	674
12	-11	66.8	566	565	584	588	624	626	647	676
14	-10	66.9	569	568	587	591	627	629	650	679
16	-9	67.1	571	570	589	593	629	631	652	681
18	-8	67.2	574	573	592	596	632	634	655	684
19	-7	67.3	576	575	594	598	634	636	657	686
21	-6	67.4	579	578	597	601	637	639	660	689
23	-5	67.6	581	580	599	603	639	641	662	691
25	-4	67.7	584	583	602	606	642	644	665	694

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156645-00-A (MOD)  
G85094 S0006581791\_V4

MPA Test Table (70 Percent N1 Corrected Fan Speed)  
Figure 504/71-00-00-990-821-F00 (Sheet 1 of 6)

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AIRCRAFT MAINTENANCE MANUAL

OAT		%N1 TARGET	MAX EGT - °C							
'F	'C		±0.5%	ENGINE MODEL <sup>1</sup>						
		7B27/B1		7B27/B3	7B26/B1	7B24/B1	7B24	7B22/B1	7B22	7B20
27	-3	67.8	586	585	604	608	644	646	667	696
28	-2	67.9	588	587	606	610	646	648	669	698
30	-1	68.1	591	590	609	613	649	651	672	701
32	0	68.2	593	592	611	615	651	653	674	703
34	1	68.3	595	594	613	617	653	655	676	705
36	2	68.4	598	597	616	620	656	658	679	708
37	3	68.6	600	599	618	622	658	660	681	710
39	4	68.7	602	601	620	624	660	662	683	712
41	5	68.8	605	604	623	627	663	665	686	715
43	6	68.9	607	606	625	629	665	667	688	717
45	7	69.0	609	608	627	631	667	669	690	719
46	8	69.2	611	610	629	633	669	671	692	721
48	9	69.3	613	612	631	635	671	673	694	723
50	10	69.4	616	615	634	638	674	676	697	726
52	11	69.5	618	617	636	640	676	678	699	728
54	12	69.6	621	620	639	643	679	681	702	731
55	13	69.8	623	622	641	645	681	683	704	733
57	14	69.9	625	624	643	647	683	685	706	735
59	15	70.0	627	626	645	649	685	687	708	737
61	16	70.1	630	629	648	652	688	690	711	740
63	17	70.2	632	631	650	654	690	692	713	742
64	18	70.4	634	633	652	656	692	694	715	744
66	19	70.5	637	636	655	659	695	697	718	747
68	20	70.6	639	638	657	661	697	699	720	749
70	21	70.7	641	640	659	663	699	701	722	751
72	22	70.8	644	643	662	666	702	704	725	754
73	23	70.9	646	645	664	668	704	706	727	756
75	24	71.1	648	647	666	670	706	708	729	758
77	25	71.2	651	650	669	673	709	711	732	761
79	26	71.3	653	652	671	675	711	713	734	763
81	27	71.4	655	654	673	677	713	715	736	765
82	28	71.5	657	656	675	679	715	717	738	767
84	29	71.7	660	659	678	682	718	720	741	770
86	30	71.8	662	661	680	684	720	722	743	772
88	31	71.9	664	663	682	686	722	724	745	774
90	32	72.0	666	665	684	688	724	726	747	776
91	33	72.1	668	667	686	690	726	728	749	778

<sup>1</sup> APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156645-00-A (MOD)

G85123 S0006581792\_V4

MPA Test Table (70 Percent N1 Corrected Fan Speed)  
Figure 504/71-00-00-990-821-F00 (Sheet 2 of 6)

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OAT		%N1 TARGET	MAX EGT - °C							
			ENGINE MODEL <span style="border: 1px solid black; padding: 0 2px;">1</span>							
°F	°C	±0.5%	7B27/B1	7B27	7B26	7B24/B1	7B24	7B22/B1	7B22	7B20
				7B27/B3	7B26/B1 7B26/B2					
93	34	72.2	670	669	688	692	728	730	751	780
95	35	72.3	673	672	691	695	731	733	754	783
97	36	72.5	675	674	693	697	733	735	756	785
99	37	72.6	677	676	695	699	735	737	758	787
100	38	72.7	679	678	697	701	737	739	760	789
102	39	72.8	681	680	699	703	739	741	762	791
104	40	72.9	684	683	702	706	742	744	765	794
106	41	73.0	686	685	704	708	744	746	767	796
108	42	73.1	688	687	706	710	746	748	769	798
109	43	73.3	690	689	708	712	748	750	771	800
111	44	73.4	692	691	710	714	750	752	773	802
113	45	73.5	695	694	713	717	753	755	776	805
115	46	73.6	697	696	715	719	755	757	778	807
117	47	73.7	699	698	717	721	757	759	780	809
118	48	73.8	701	700	719	723	759	761	782	811
120	49	73.9	703	702	721	725	761	763	784	813
122	50	74.1	705	704	723	727	763	765	786	815

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

 GMM-1156646-00-A (MOD)  
 G86652 S0006581793\_V4

 MPA Test Table (70 Percent N1 Corrected Fan Speed)  
 Figure 504/71-00-00-990-821-F00 (Sheet 3 of 6)

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OAT		N1 TARGET	MAX N2							
			ENGINE MODEL 1							
'F	'C	±0.5X	7B27/B1	7B27	7B26	7B24/B1	7B24	7B22/B1	7B22	7B20
				7B27/B3	7B26/B1					
-40	-40	63.1	81.3	81.3	81.2	81.8	82.4	83.0	83.1	83.4
-38	-39	63.2	81.5	81.5	81.4	82.0	82.6	83.2	83.3	83.6
-36	-38	63.4	81.7	81.7	81.6	82.2	82.8	83.4	83.5	83.8
-35	-37	63.5	81.8	81.8	81.7	82.3	82.9	83.5	83.6	83.9
-33	-36	63.6	82.0	82.0	81.9	82.5	83.1	83.7	83.8	84.1
-31	-35	63.7	82.1	82.1	82.0	82.6	83.2	83.8	83.9	84.2
-29	-34	63.9	82.3	82.3	82.2	82.8	83.4	84.0	84.1	84.4
-27	-33	64.0	82.5	82.5	82.4	83.0	83.6	84.2	84.3	84.6
-26	-32	64.1	82.7	82.7	82.6	83.2	83.8	84.4	84.5	84.8
-24	-31	64.3	82.8	82.8	82.7	83.3	83.9	84.5	84.6	84.9
-22	-30	64.4	83.0	83.0	82.9	83.5	84.1	84.7	84.8	85.1
-20	-29	64.5	83.2	83.2	83.1	83.7	84.3	84.9	85.0	85.3
-18	-28	64.7	83.3	83.3	83.2	83.8	84.4	85.0	85.1	85.4
-17	-27	64.8	83.5	83.5	83.4	84.0	84.6	85.2	85.3	85.6
-15	-26	64.9	83.7	83.7	83.6	84.2	84.8	85.4	85.5	85.8
-13	-25	65.0	83.8	83.8	83.7	84.3	84.9	85.5	85.6	85.9
-11	-24	65.2	84.0	84.0	83.9	84.5	85.1	85.7	85.8	86.1
-9	-23	65.3	84.2	84.2	84.1	84.7	85.3	85.9	86.0	86.3
-8	-22	65.4	84.3	84.3	84.2	84.8	85.4	86.0	86.1	86.4
-6	-21	65.6	84.5	84.5	84.4	85.0	85.6	86.2	86.3	86.6
-4	-20	65.7	84.7	84.7	84.6	85.2	85.8	86.4	86.5	86.8
-2	-19	65.8	84.8	84.8	84.7	85.3	85.9	86.5	86.6	86.9
0	-18	65.9	85.0	85.0	84.9	85.5	86.1	86.7	86.8	87.1
1	-17	66.1	85.2	85.2	85.1	85.7	86.3	86.9	87.0	87.3
3	-16	66.2	85.3	85.3	85.2	85.8	86.4	87.0	87.1	87.4
5	-15	66.3	85.5	85.5	85.4	86.0	86.6	87.2	87.3	87.6
7	-14	66.4	85.7	85.7	85.6	86.2	84.8	87.4	87.5	87.8
9	-13	66.6	85.9	85.9	85.8	86.4	87.0	87.6	87.7	88.0
10	-12	66.7	86.0	86.0	85.9	86.5	87.1	87.7	87.8	88.1
12	-11	66.8	86.2	86.2	86.1	86.7	87.3	87.9	88.0	88.3
14	-10	66.9	86.4	86.4	86.3	86.9	87.5	88.1	88.2	88.5
16	-9	67.1	86.5	86.5	86.4	87.0	87.6	88.2	88.3	88.6
18	-8	67.2	86.7	86.7	86.6	87.2	87.8	88.4	88.5	88.8
19	-7	67.3	86.9	86.9	86.8	87.4	88.0	88.6	88.7	89.0
21	-6	67.4	87.0	87.0	86.9	87.5	88.1	88.7	88.8	89.1
23	-5	67.6	87.2	87.2	87.1	87.7	88.3	88.9	89.0	89.3
25	-4	67.7	87.4	87.4	87.3	87.9	88.5	89.1	89.2	89.5

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156645-00-A (MOD)  
H49572 S0006581794\_V4

MPA Test Table (70 Percent N1 Corrected Fan Speed)  
Figure 504/71-00-00-990-821-F00 (Sheet 4 of 6)

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AIRCRAFT MAINTENANCE MANUAL

OAT		XN1 TARGET	MAX XN2							
'F	'C		±0.5%	ENGINE MODEL <sup>1</sup>						
		7B27/B1		7B27/B3	7B26/B1 7B26/B2	7B24/B1	7B24	7B22/B1	7B22	7B20
27	-3	67.8	87.5	87.5	87.4	88.0	88.6	89.2	89.3	89.6
28	-2	67.9	87.7	87.7	87.6	88.2	88.8	89.4	89.5	89.8
30	-1	68.1	87.9	87.9	87.8	88.4	89.0	89.6	89.7	90.0
32	0	68.2	88.0	88.0	87.9	88.5	89.1	89.7	89.8	90.1
34	1	68.3	88.2	88.2	88.1	88.7	89.3	89.9	90.0	90.3
36	2	68.4	88.4	88.4	88.3	88.9	89.5	90.1	90.2	90.5
37	3	68.6	88.5	88.5	88.4	89.0	89.6	90.2	90.3	90.6
39	4	68.7	88.7	88.7	88.6	89.2	89.8	90.4	90.5	90.8
41	5	68.8	88.9	88.9	88.8	89.4	90.0	90.6	90.7	91.0
43	6	68.9	89.1	89.1	89.0	89.6	90.2	90.8	90.9	91.2
45	7	69.0	89.2	89.2	89.1	89.7	90.3	90.9	91.0	91.3
46	8	69.2	89.4	89.4	89.3	89.9	90.5	91.1	91.2	91.5
48	9	69.3	89.6	89.6	89.5	90.1	90.7	91.3	91.4	91.7
50	10	69.4	89.7	89.7	89.6	90.2	90.8	91.4	91.5	91.8
52	11	69.5	89.9	89.9	89.8	90.4	91.0	91.6	91.7	92.0
54	12	69.6	90.1	90.1	90.0	90.6	91.2	91.8	91.9	92.2
55	13	69.8	90.2	90.2	90.1	90.7	91.3	91.9	92.0	92.3
57	14	69.9	90.4	90.4	90.3	90.9	91.5	92.1	92.2	92.5
59	15	70.0	90.5	90.5	90.4	91.0	91.6	92.2	92.3	92.6
61	16	70.1	90.7	90.7	90.6	91.2	91.8	92.4	92.5	92.8
63	17	70.2	90.9	90.9	90.8	91.4	92.0	92.6	92.7	93.0
64	18	70.4	91.0	91.0	90.9	91.5	92.1	92.7	92.8	93.1
66	19	70.5	91.2	91.2	91.1	91.7	92.3	92.9	93.0	93.3
68	20	70.6	91.4	91.4	91.3	91.9	92.5	93.1	93.2	93.5
70	21	70.7	91.5	91.5	91.4	92.0	92.6	93.2	93.3	93.6
72	22	70.8	91.7	91.7	91.6	92.2	92.8	93.4	93.5	93.8
73	23	70.9	91.8	91.8	91.7	92.3	92.9	93.5	93.6	93.9
75	24	71.1	92.0	92.0	91.9	92.5	93.1	93.7	93.8	94.1
77	25	71.2	92.2	92.2	92.1	92.7	93.3	93.9	94.0	94.3
79	26	71.3	92.3	92.3	92.2	92.8	93.4	94.0	94.1	94.4
81	27	71.4	92.5	92.5	92.4	93.0	93.6	94.2	94.3	94.6
82	28	71.5	92.6	92.6	92.5	93.1	93.7	94.3	94.4	94.7
84	29	71.7	92.8	92.8	92.7	93.3	93.9	94.5	94.6	94.9
86	30	71.8	92.9	92.9	92.8	93.4	94.0	94.6	94.7	95.0
88	31	71.9	93.1	93.1	93.0	93.6	94.2	94.8	94.9	95.2
90	32	72.0	93.3	93.3	93.2	93.8	94.4	95.0	95.1	95.4
91	33	72.1	93.4	93.4	93.3	93.9	94.5	95.1	95.2	95.5

<sup>1</sup> APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156648-00-A (MOD)

H49591 S0006581795\_V4

MPA Test Table (70 Percent N1 Corrected Fan Speed)  
Figure 504/71-00-00-990-821-F00 (Sheet 5 of 6)

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AIRCRAFT MAINTENANCE MANUAL

OAT		%N1 TARGET	MAX %N2							
°F	°C		ENGINE MODEL <sup>1</sup>							
		±0.5%	7B27/B1	7B27 7B27/B3	7B26 7B26/B1 7B26/B2	7B24/B1	7B24	7B22/B1	7B22	7B20
93	34	72.2	93.6	93.6	93.5	94.1	94.7	95.3	95.4	95.7
95	35	72.3	93.7	93.7	93.6	94.2	94.8	95.4	95.5	95.8
97	36	72.5	93.9	93.9	93.8	94.4	95.0	95.6	95.7	96.0
99	37	72.6	94.0	94.0	93.9	94.5	95.1	95.7	95.8	96.1
100	38	72.7	94.2	94.2	94.1	94.7	95.3	95.9	96.0	96.3
102	39	72.8	94.4	94.4	94.3	94.9	95.5	96.1	96.2	96.5
104	40	72.9	94.5	94.5	94.4	95.0	95.6	96.2	96.3	96.6
106	41	73.0	94.7	94.7	94.6	95.2	95.8	96.4	96.5	96.8
108	42	73.1	94.8	94.8	94.7	95.3	95.9	96.5	96.6	96.9
109	43	73.3	95.0	95.0	94.9	95.5	96.1	96.7	96.8	97.1
111	44	73.4	95.1	95.1	95.0	95.6	96.2	96.8	96.9	97.2
113	45	73.5	95.3	95.3	95.2	95.8	96.4	97.0	97.1	97.4
115	46	73.6	95.4	95.4	95.3	95.9	96.5	97.1	97.2	97.5
117	47	73.7	95.6	95.6	95.5	96.1	96.7	97.3	97.4	97.7
118	48	73.8	95.8	95.8	95.7	96.3	96.9	97.5	97.6	97.9
120	49	73.9	95.9	95.9	95.8	96.4	97.0	97.6	97.7	98.0
122	50	74.1	96.1	96.1	96.0	96.6	97.2	97.8	97.9	98.2

<sup>1</sup> APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156648-00-A (MOD)

H49601 S0006581736\_V4

MPA Test Table (70 Percent N1 Corrected Fan Speed)  
Figure 504/71-00-00-990-821-F00 (Sheet 6 of 6)

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75%

737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL

OAT		XN1 TARGET	MAX EGT - °C							
'F	'C		±0.5%	ENGINE MODEL 1						
		7B27/B1		7B27/B3	7B26/B1	7B24/B1	7B24	7B22/B1	7B22	7B20
-40	-40	67.6	516	515	534	538	574	576	597	626
-38	-39	67.8	519	518	537	541	577	579	600	629
-36	-38	67.9	522	521	540	544	580	582	603	632
-35	-37	68.0	525	524	543	547	583	585	606	635
-33	-36	68.2	527	526	545	549	585	587	608	637
-31	-35	68.3	530	529	548	552	588	590	611	640
-29	-34	68.5	533	532	551	555	591	593	614	643
-27	-33	68.6	536	535	554	558	594	596	617	646
-26	-32	68.7	538	537	556	560	596	598	619	648
-24	-31	68.9	541	540	559	563	599	601	622	651
-22	-30	69.0	544	543	562	566	602	604	625	654
-20	-29	69.2	547	546	565	569	605	607	628	657
-18	-28	69.3	549	548	567	571	607	609	630	659
-17	-27	69.4	552	551	570	574	610	612	633	662
-15	-26	69.6	555	554	573	577	613	615	636	665
-13	-25	69.7	558	557	576	580	616	618	639	668
-11	-24	69.8	560	559	578	582	618	620	641	670
-9	-23	70.0	563	562	581	585	621	623	644	673
-8	-22	70.1	565	564	583	587	623	625	646	675
-6	-21	70.3	568	567	586	590	626	628	649	678
-4	-20	70.4	570	569	588	592	628	630	651	680
-2	-19	70.5	573	572	591	595	631	633	654	683
0	-18	70.7	575	574	593	597	633	635	656	685
1	-17	70.8	578	577	596	600	636	638	659	688
3	-16	70.9	580	579	598	602	638	640	661	690
5	-15	71.1	583	582	601	605	641	643	664	693
7	-14	71.2	585	584	603	607	643	645	666	695
9	-13	71.3	588	587	606	610	646	648	669	698
10	-12	71.5	590	589	608	612	648	650	671	700
12	-11	71.6	593	592	611	615	651	653	674	703
14	-10	71.7	595	594	613	617	653	655	676	705
16	-9	71.9	598	597	616	620	656	658	679	708
18	-8	72.0	600	599	618	622	658	660	681	710
19	-7	72.1	603	602	621	625	661	663	684	713
21	-6	72.3	605	604	623	627	663	665	686	715
23	-5	72.4	608	607	626	630	666	668	689	718
25	-4	72.5	610	609	628	632	668	670	691	720

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156649-00-A (MOD)

G85150 S0006581797\_V4

MPA Test Table (75 Percent N1 Corrected Fan Speed)  
Figure 505/71-00-00-990-822-F00 (Sheet 1 of 6)

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AIRCRAFT MAINTENANCE MANUAL

OAT		%N1 TARGET	MAX EGT - °C							
°F	°C		ENGINE MODEL 1							
		±0.5%	7B27/B1	7B27/B3	7B26/B1 7B26/B2	7B24/B1	7B24	7B22/B1	7B22	7B20
27	-3	72.7	613	612	631	635	671	673	694	723
28	-2	72.8	615	614	633	637	673	675	696	725
30	-1	72.9	617	616	635	639	675	677	698	727
32	0	73.1	620	619	638	642	678	680	701	730
34	1	73.2	622	621	640	644	680	682	703	732
36	2	73.3	625	624	643	647	683	685	706	735
37	3	73.5	628	627	646	650	686	688	709	738
39	4	73.6	630	629	648	652	688	690	711	740
41	5	73.7	633	632	651	655	691	693	714	743
43	6	73.8	635	634	653	657	693	695	716	745
45	7	74.0	638	637	656	660	696	698	719	748
46	8	74.1	640	639	658	662	698	700	721	750
48	9	74.2	643	642	661	665	701	703	724	753
50	10	74.4	645	644	663	667	703	705	726	755
52	11	74.5	648	647	666	670	706	708	729	758
54	12	74.6	650	649	668	672	708	710	731	760
55	13	74.7	653	652	671	675	711	713	734	763
57	14	74.9	655	654	673	677	713	715	736	765
59	15	75.0	658	657	676	680	716	718	739	768
61	16	75.1	660	659	678	682	718	720	741	770
63	17	75.3	662	661	680	684	720	722	743	772
64	18	75.4	665	664	683	687	723	725	746	775
66	19	75.5	667	666	685	689	725	727	748	777
68	20	75.6	670	669	688	692	728	730	751	780
70	21	75.8	672	671	690	694	730	732	753	782
72	22	75.9	675	674	693	697	733	735	756	785
73	23	76.0	677	676	695	699	735	737	758	787
75	24	76.1	680	679	698	702	738	740	761	790
77	25	76.3	682	681	700	704	740	742	763	792
79	26	76.4	685	684	703	707	743	745	766	795
81	27	76.5	687	686	705	709	745	747	768	797
82	28	76.6	689	688	707	711	747	749	770	799
84	29	76.8	692	691	710	714	750	752	773	802
86	30	76.9	694	693	712	716	752	754	775	804
88	31	77.0	696	695	714	718	754	756	777	806
90	32	77.1	699	698	717	721	757	759	780	809

GMM-1156649-00-A (MOD)  
GMM-1156650-00-A (MOD)

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

G85186 S0006581798\_V4

MPA Test Table (75 Percent N1 Corrected Fan Speed)  
Figure 505/71-00-00-990-822-F00 (Sheet 2 of 6)

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737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL

OAT		%N1 TARGET	MAX EGT - °C							
°F	°C		ENGINE MODEL 1							
		±0.5%	7B27/B1	7B27 7B27/B3	7B26 7B26/B1 7B26/B2	7B24/B1	7B24	7B22/B1	7B22	7B20
91	33	77.3	701	700	719	723	759	761	782	811
93	34	77.4	703	702	721	725	761	763	784	813
95	35	77.5	706	705	724	728	764	766	787	816
97	36	77.6	708	707	726	730	766	768	789	818
99	37	77.8	710	709	728	732	768	770	791	820
100	38	77.9	712	711	730	734	770	772	793	822
102	39	78.0	715	714	733	737	773	775	796	825
104	40	78.1	717	716	735	739	775	777	798	827
106	41	78.2	720	719	738	742	778	780	801	830
108	42	78.4	722	721	740	744	780	782	803	832
109	43	78.5	724	723	742	746	782	784	805	834
111	44	78.6	726	725	744	748	784	786	807	836
113	45	78.7	729	728	747	751	787	789	810	839
115	46	78.8	731	730	749	753	789	791	812	841
117	47	79.0	733	732	751	755	791	793	814	843
118	48	79.1	735	734	753	757	793	795	816	845
120	49	79.2	737	736	755	759	795	797	818	847
122	50	79.3	739	738	757	761	797	799	820	849

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156650-00-A (MOD)

G66703 S0006581799\_V4

MPA Test Table (75 Percent N1 Corrected Fan Speed)  
Figure 505/71-00-00-990-822-F00 (Sheet 3 of 6)

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737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL

OAT		%N1 TARGET	MAX %N2							
			ENGINE MODEL 1							
'F	'C	±0.5%	7B27/B1	7B27	7B26	7B24/B1	7B24	7B22/B1	7B22	7B20
				7B27/B3	7B26/B1					
-40	-40	67.6	82.7	82.7	82.6	83.2	83.8	84.4	84.5	84.8
-38	-39	67.8	82.9	82.9	82.8	83.4	84.0	84.6	84.7	85.0
-36	-38	67.9	83.1	83.1	83.0	83.6	84.2	84.8	84.9	85.2
-35	-37	68.0	83.2	83.2	83.1	83.7	84.3	84.9	85.0	85.3
-33	-36	68.2	83.4	83.4	83.3	83.9	84.5	85.1	85.2	85.5
-31	-35	68.3	83.6	83.6	83.5	84.1	84.7	85.3	85.4	85.7
-29	-34	68.5	83.7	83.7	83.6	84.2	84.8	85.4	85.5	85.8
-27	-33	68.6	83.9	83.9	83.8	84.4	85.0	85.6	85.7	86.0
-26	-32	68.7	84.1	84.1	84.0	84.6	85.2	85.8	85.9	86.2
-24	-31	68.9	84.3	84.3	84.2	84.8	85.4	86.0	86.1	86.4
-22	-30	69.0	84.4	84.4	84.3	84.9	85.5	86.1	86.2	86.5
-20	-29	69.2	84.6	84.6	84.5	85.1	85.7	86.3	86.4	86.7
-18	-28	69.3	84.8	84.8	84.7	85.3	85.9	86.5	86.6	86.9
-17	-27	69.4	85.0	85.0	84.9	85.5	86.1	86.7	86.8	87.1
-15	-26	69.6	85.1	85.1	85.0	85.6	86.2	86.8	86.9	87.2
-13	-25	69.7	85.3	85.3	85.2	85.8	86.4	87.0	87.1	87.4
-11	-24	69.8	85.5	85.5	85.4	86.0	86.6	87.2	87.3	87.6
-9	-23	70.0	85.7	85.7	85.6	86.2	86.8	87.4	87.5	87.8
-8	-22	70.1	85.8	85.8	85.7	86.3	86.9	87.5	87.6	87.9
-6	-21	70.3	86.0	86.0	85.9	86.5	87.1	87.7	87.8	88.1
-4	-20	70.4	86.2	86.2	86.1	86.7	87.3	87.9	88.0	88.3
-2	-19	70.5	86.3	86.3	86.2	86.8	87.4	88.0	88.1	88.4
0	-18	70.7	86.5	86.5	86.4	87.0	87.6	88.2	88.3	88.6
1	-17	70.8	83.7	86.7	86.6	87.2	87.8	88.4	88.5	88.8
3	-16	70.9	86.9	86.9	86.8	87.4	88.0	88.6	88.7	89.0
5	-15	71.1	87.0	87.0	86.9	87.5	88.1	88.7	88.8	89.1
7	-14	71.2	87.2	87.2	87.1	87.7	88.3	88.9	89.0	89.3
9	-13	71.3	87.4	87.4	87.3	87.9	88.5	89.1	89.2	89.5
10	-12	71.5	87.5	87.5	87.4	88.0	88.6	89.2	89.3	89.6
12	-11	71.6	87.7	87.7	87.6	88.2	88.8	89.4	89.5	89.8
14	-10	71.7	87.9	87.9	87.8	88.4	89.0	89.6	89.7	90.0
16	-9	71.9	88.1	88.1	88.0	88.6	89.2	89.8	89.9	90.2
18	-8	72.0	88.2	88.2	88.1	88.7	89.3	89.9	90.0	90.3
19	-7	72.1	88.4	88.4	88.3	88.9	89.5	90.1	90.2	90.5
21	-6	72.3	88.6	88.6	88.5	89.1	89.7	90.3	90.4	90.7
23	-5	72.4	88.7	88.7	88.6	89.2	89.8	90.4	90.5	90.8
25	-4	72.5	88.9	88.9	88.8	89.4	90.0	90.6	90.7	91.0

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156651-00-A (MOD)

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MPA Test Table (75 Percent N1 Corrected Fan Speed)  
Figure 505/71-00-00-990-822-F00 (Sheet 4 of 6)

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AIRCRAFT MAINTENANCE MANUAL

OAT		%N1 TARGET	MAX %N2							
			ENGINE MODEL <sup>1</sup>							
'F	'C	±0.5%	7B27/B1	7B27	7B26	7B24/B1	7B24	7B22/B1	7B22	7B20
				7B27/B3	7B26/B1					
27	-3	72.7	89.1	89.1	89.0	89.6	90.2	90.8	90.9	91.2
28	-2	72.8	89.3	89.3	89.2	89.8	90.4	91.0	91.1	91.4
30	-1	72.9	89.4	89.4	89.3	89.9	90.5	91.1	91.2	91.5
32	0	73.1	89.6	89.6	89.5	90.1	90.7	91.3	91.4	91.7
34	1	73.2	89.8	89.8	89.7	90.3	90.9	91.5	91.6	91.9
36	2	73.3	89.9	89.9	89.9	90.4	91.0	91.6	91.7	92.0
37	3	73.5	90.1	90.1	90.0	90.6	91.2	91.8	91.9	92.2
39	4	73.6	90.3	90.3	90.2	90.8	91.4	92.0	92.1	92.4
41	5	73.7	90.4	90.4	90.3	90.9	91.5	92.1	92.2	92.5
43	6	73.8	90.6	90.6	90.5	91.1	91.7	92.3	92.4	92.7
45	7	74.0	90.8	90.8	90.7	91.3	91.9	92.5	92.6	92.9
46	8	74.1	90.9	90.9	90.8	91.4	92.0	92.6	92.7	93.0
48	9	74.2	91.1	91.1	91.0	91.6	92.2	92.8	92.9	93.2
50	10	74.4	91.3	91.3	91.2	91.8	92.4	93.0	93.1	93.4
52	11	74.5	91.4	91.4	91.3	91.9	92.5	93.1	93.2	93.5
54	12	74.6	91.6	91.6	91.5	92.1	92.7	93.3	93.4	93.7
55	13	74.7	91.8	91.8	91.7	92.3	92.9	93.5	93.6	93.9
57	14	74.9	91.9	91.9	91.8	92.4	93.0	93.6	93.7	94.0
59	15	75.0	92.1	92.1	92.0	92.6	93.2	93.8	93.9	94.2
61	16	75.1	92.3	92.3	92.2	92.8	93.4	94.0	94.1	94.4
63	17	75.3	92.4	92.4	92.3	92.9	93.5	94.1	94.2	94.5
64	18	75.4	92.6	92.6	92.5	93.1	93.7	94.3	94.4	94.7
66	19	75.5	92.8	92.8	92.7	93.3	93.9	94.5	94.6	94.9
68	20	75.6	92.9	92.9	92.8	93.4	94.0	94.6	94.7	95.0
70	21	75.8	93.1	93.1	93.0	93.6	94.2	94.8	94.9	95.2
72	22	75.9	93.2	93.2	93.1	93.7	94.3	94.9	95.0	95.3
73	23	76.0	93.4	93.4	93.3	93.9	94.5	95.1	95.2	95.5
75	24	76.1	93.6	93.6	93.5	94.1	94.7	95.3	95.4	95.7
77	25	76.3	93.7	93.7	93.6	94.2	94.8	95.4	95.5	95.8
79	26	76.4	93.9	93.9	93.8	94.4	95.0	95.6	95.7	96.0
81	27	76.5	94.1	94.1	94.0	94.6	95.2	95.8	95.9	96.2
82	28	76.6	94.2	94.2	94.1	94.7	95.3	95.9	96.0	96.3
84	29	76.8	94.4	94.4	94.3	94.9	95.5	96.1	96.2	96.5
86	30	76.9	94.5	94.5	94.4	95.0	95.6	96.2	96.3	96.6
88	31	77.0	94.7	94.7	94.6	95.2	95.8	96.4	96.5	96.8
90	32	77.1	94.9	94.9	94.8	95.4	96.0	96.6	96.7	97.0

<sup>1</sup> APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156651-00-A (MOD)

GMM-1156652-00-A (MOD)

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MPA Test Table (75 Percent N1 Corrected Fan Speed)  
Figure 505/71-00-00-990-822-F00 (Sheet 5 of 6)

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737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL

OAT		%N1 TARGET	MAX %N2							
			ENGINE MODEL <span style="border: 1px solid black; padding: 0 2px;">1</span>							
°F	°C	±0.5%	7B27/B1	7B27	7B26	7B24/B1	7B24	7B22/B1	7B22	7B20
				7B27/B2	7B26/B1 7B26/B2					
91	33	77.3	95.0	95.0	94.9	95.5	96.1	96.7	96.8	97.1
93	34	77.4	95.2	95.2	95.1	95.7	96.3	96.9	97.0	97.3
95	35	77.5	95.3	95.3	95.2	95.8	96.4	97.0	97.1	97.4
97	36	77.6	95.5	95.5	95.4	96.0	96.6	97.2	97.3	97.6
99	37	77.8	95.7	95.7	95.6	96.2	96.8	97.4	97.5	97.8
100	38	77.9	95.8	95.8	95.7	96.3	96.9	97.5	97.6	97.9
102	39	78.0	96.0	96.0	95.9	96.5	97.1	97.7	97.8	98.1
104	40	78.1	96.1	96.1	96.0	96.6	97.2	97.8	97.9	98.2
106	41	78.2	96.3	96.3	96.2	96.8	97.4	98.0	98.1	98.4
108	42	78.4	96.4	96.4	96.3	96.9	97.5	98.1	98.2	98.5
109	43	78.5	96.6	96.6	96.5	97.1	97.7	98.3	98.4	98.7
111	44	78.6	96.7	96.7	96.6	97.2	97.8	98.4	98.5	98.8
113	45	78.7	96.9	96.9	96.8	97.4	98.0	98.6	98.7	99.0
115	46	78.8	97.1	97.1	97.0	97.6	98.2	98.8	98.9	99.2
117	47	79.0	97.2	97.2	97.1	97.7	98.3	98.9	99.0	99.3
118	48	79.1	97.4	97.4	97.3	97.9	98.5	99.1	99.2	99.5
120	49	79.2	97.6	97.6	97.5	98.1	98.7	99.3	99.4	99.7
122	50	79.3	97.7	97.7	97.6	98.2	98.8	99.4	99.5	99.8

1 APPLICABLE TO ALL /3, /3F, AND -7BE RATINGS

GMM-1156652-00-A (MOD)

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MPA Test Table (75 Percent N1 Corrected Fan Speed)  
Figure 505/71-00-00-990-822-F00 (Sheet 6 of 6)

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