

# HIGH PRESSURE TURBINE ROTOR

## *LIFE LIMITS*

### Applicability

Engine type(s): LEAP-1B  
 Engine model(s): ALL

### Reason for update(s)

[TECHNICAL] Added PNs 2547M01G03 and 2600M25P03 to the life limits tables.

### Table of contents

1. REFERENCES . . . . .	2
2. REQUIRED CONDITIONS . . . . .	2
3. SUPPORT EQUIPMENT . . . . .	2
4. CONSUMABLES, MATERIALS AND EXPENDABLES. . . . .	2
5. SPARES . . . . .	2
6. PROCEDURE . . . . .	2
A.General . . . . .	2
B.Life limits of the <i>HPT</i> rotor parts . . . . .	2
7. REQUIREMENTS AFTER JOB COMPLETION . . . . .	9

### List of tables

Table: References . . . . .	2
Table 1: LEAP-1B Engine models and life cycles . . . . .	2
Table 2: LEAP-1B Engine models and life cycles . . . . .	5
Table 3: LEAP-1B Engine models and life cycles . . . . .	7

### List of figures

Figure 1: <i>HPT</i> rotor parts - Life limits . . . . .	8
--	---

## 1. REFERENCES

Table: References

---

### Technical Publication

---

LEAP-1B-05-11-00-01A-040A-C

---

## 2. REQUIRED CONDITIONS

*No Required conditions*

## 3. SUPPORT EQUIPMENT

*No support equipment*

## 4. CONSUMABLES, MATERIALS AND EXPENDABLES

*No supplies*

## 5. SPARES

*No Spares*

### **Safety conditions**

*No safety conditions*

## 6. PROCEDURE

### A. General

This section contains **Federal Aviation Administration (FAA)** and **European Aviation Safety Agency (EASA)** approved life limits for the **High Pressure Turbine (HPT)** rotor parts. Part life is identified by flight cycles. Refer to: [LEAP-1B-05-11-00-01A-040A-C](#). The operator must make sure that the cycles on the parts are not more than the life limits. [Figure 1](#).

### B. Life limits of the HPT rotor parts

[Table 1](#) and [Table 2](#) for the life limits of the **HPT** rotor life-limited parts for the LEAP-1B engine for commercial application.

Table 1: LEAP-1B Engine models and life cycles

Part Name	Part Number	1B21	1B23	1B25	1B27	1B28
Forward Outer Seal	2596M44P01	14,500 Cycles	14,500 Cycles	14,500 Cycles	14,500 Cycles	10,000 Cycles
	2596M44P02	14,500 Cycles	14,500 Cycles	14,500 Cycles	14,500 Cycles	10,000 Cycles

to be continued ...

Part Name	Part Number	1B21	1B23	1B25	1B27	1B28
<b>HPT Rotor Stage 1 Disk</b>	2600M21G02	11,200 Cycles	11,200 Cycles	11,200 Cycles	11,200 Cycles	10,000 Cycles
<b>HPT Rotor Mid Seal</b>	2600M25P01	12,400 Cycles	12,400 Cycles	12,400 Cycles	12,400 Cycles	10,000 Cycles
	2600M25P02 For part serial numbers NOT listed in SB 72-0342, issue 2 or later	8,400 Cycles	8,400 Cycles	8,400 Cycles	8,400 Cycles	8,000 Cycles
	2600M25P02 For part serial numbers listed in Table 1 of SB 72-0342, issue 2 or later	4,700 Cycles	4,700 Cycles	4,700 Cycles	4,700 Cycles	4,500 Cycles
	2600M25P03	8,400 Cycles	8,400 Cycles	8,400 Cycles	8,400 Cycles	8,000 Cycles

to be continued ...

Part Name	Part Number	1B21	1B23	1B25	1B27	1B28
<b>HPT</b> Rotor Stage 2 Disk	2547M01G01	7,200 Cycles	7,200 Cycles	7,200 Cycles	7,200 Cycles	7,200 Cycles
	2547M01G02 For part serial numbers NOT listed in SB 72-0342, issue 2 or later	7,900 Cycles	7,900 Cycles	7,900 Cycles	7,900 Cycles	7,200 Cycles
	2547M01G02 For part serial numbers listed in Table 2 of SB 72-0342, issue 2 or later	4,400 Cycles	4,400 Cycles	4,400 Cycles	4,400 Cycles	4,200 Cycles
	2547M01G02 For part serial numbers listed in Table 3 of SB 72-0342, issue 2 or later	5,100 Cycles	5,100 Cycles	5,100 Cycles	5,100 Cycles	4,900 Cycles
	2547M01G02 For part serial numbers listed in Table 4 of SB 72-0342, issue 2 or later	7,000 Cycles	7,000 Cycles	7,000 Cycles	7,000 Cycles	6,200 Cycles
	2547M01G02 For part serial numbers listed in Table 5 of SB 72-0342, issue 2 or later	4,400 Cycles	4,400 Cycles	4,400 Cycles	4,400 Cycles	4,000 Cycles
	2547M01G03	7,900 Cycles	7,900 Cycles	7,900 Cycles	7,900 Cycles	7,200 Cycles
<b>HPT</b> Aft Rotating Seal	2547M40P01	13,300 Cycles	13,300 Cycles	13,300 Cycles	13,300 Cycles	10,000 Cycles
	2547M40P02	13,300 Cycles	13,300 Cycles	13,300 Cycles	13,300 Cycles	10,000 Cycles

Table 2: LEAP-1B Engine models and life cycles

Part Name	Part Number	1B28B1	1B28B2	1B28B2C	1B28B3
Forward Outer Seal	2596M44P01	10,000 Cycles	10,000 Cycles	10,000 Cycles	10,000 Cycles
	2596M44P02	10,000 Cycles	10,000 Cycles	10,000 Cycles	10,000 Cycles
HPT Rotor Stage 1 Disk	2600M21G02	10,000 Cycles	10,000 Cycles	10,000 Cycles	8,700 Cycles
HPT Rotor Mid Seal	2600M25P01	10,000 Cycles	10,000 Cycles	10,000 Cycles	8,100 Cycles
	2600M25P02 For part serial numbers NOT listed in SB 72-0342, issue 2 or later	8,000 Cycles	8,000 Cycles	8,000 Cycles	7,200 Cycles
	2600M25P02 For part serial numbers listed in Table 1 of SB 72-0342, issue 2 or later	4,500 Cycles	4,500 Cycles	4,500 Cycles	4,200 Cycles
	2600M25P03	8,000 Cycles	8,000 Cycles	8,000 Cycles	7,200 Cycles

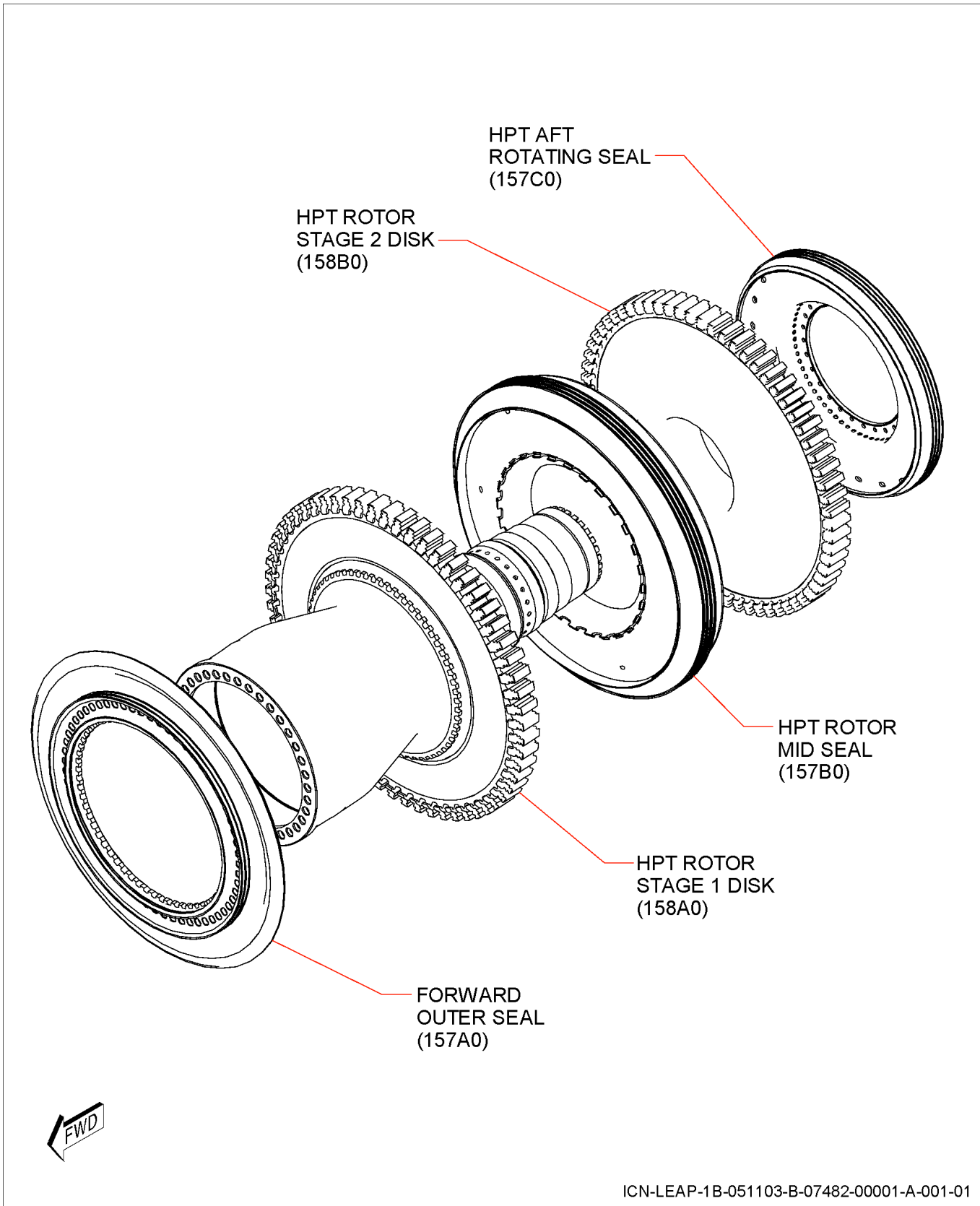
to be continued ...

Part Name	Part Number	1B28B1	1B28B2	1B28B2C	1B28B3
<b>HPT Rotor Stage 2 Disk</b>	2547M01G01	7,200 Cycles	7,200 Cycles	7,200 Cycles	4,900 Cycles
	2547M01G02 For part serial numbers NOT listed in SB 72-0342, issue 2 or later	7,200 Cycles	7,200 Cycles	7,200 Cycles	6,700 Cycles
	2547M01G02 For part serial numbers listed in Table 2 of SB 72-0342, issue 2 or later	4,200 Cycles	4,200 Cycles	4,200 Cycles	3,900 Cycles
	2547M01G02 For part serial numbers listed in Table 3 of SB 72-0342, issue 2 or later	4,900 Cycles	4,900 Cycles	4,900 Cycles	4,500 Cycles
	2547M01G02 For part serial numbers listed in Table 4 of SB 72-0342, issue 2 or later	6,200 Cycles	6,200 Cycles	6,200 Cycles	5,700 Cycles
	2547M01G02 For part serial numbers listed in Table 5 of SB 72-0342, issue 2 or later	4,000 Cycles	4,000 Cycles	4,000 Cycles	3,700 Cycles
	2547M01G03	7,200 Cycles	7,200 Cycles	7,200 Cycles	6,700 Cycles
<b>HPT Aft Rotating Seal</b>	2547M40P01	10,000 Cycles	10,000 Cycles	10,000 Cycles	10,000 Cycles
	2547M40P02	10,000 Cycles	10,000 Cycles	10,000 Cycles	10,000 Cycles

**Table 3** for the life limits of the **HPT** rotor life-limited parts for the LEAP-1B engine for business jet application.

Table 3: LEAP-1B Engine models and life cycles

Part Name	Part Number	1B28BBJ1	1B28BBJ2
Forward Outer Seal	2596M44P01	3,000 Cycles	3,000 Cycles
	2596M44P02	5,000 Cycles	5,000 Cycles
<b>HPT</b> Rotor Stage 1 Disk	2600M21G02	5,000 Cycles	5,000 Cycles
<b>HPT</b> Rotor Mid Seal	2600M25P01	3,000 Cycles	3,000 Cycles
	2600M25P02 For part serial numbers NOT listed in SB 72-0342, issue 2 or later	5,000 Cycles	5,000 Cycles
	2600M25P02 For part serial numbers listed in Table 1 of SB 72-0342, issue 2 or later	4,400 Cycles	4,400 Cycles
	2600M25P03	5,000 Cycles	5,000 Cycles
<b>HPT</b> Rotor Stage 2 Disk	2547M01G01	3,000 Cycles	3,000 Cycles
	2547M01G02 For part serial numbers NOT listed in SB 72-0342, issue 2 or later	5,000 Cycles	5,000 Cycles
	2547M01G02 For part serial numbers listed in Table 2 of SB 72-0342, issue 2 or later	4,100 Cycles	4,100 Cycles
	2547M01G02 For part serial numbers listed in Table 3 of SB 72-0342, issue 2 or later	4,800 Cycles	4,800 Cycles
	2547M01G02 For part serial numbers listed in Table 4 of SB 72-0342, issue 2 or later	5,000 Cycles	5,000 Cycles
	2547M01G02 For part serial numbers listed in Table 5 of SB 72-0342, issue 2 or later	3,900 Cycles	3,900 Cycles
	2547M01G03	5,000 Cycles	5,000 Cycles
	<b>HPT</b> Aft Rotating Seal	2547M40P01	5,000 Cycles
	2547M40P02	5,000 Cycles	5,000 Cycles



HPT rotor parts - Life limits  
Figure 1





The Power of Flight

## 7. REQUIREMENTS AFTER JOB COMPLETION

*No Required conditions after job completion*