

Service Time Coding of Propulsion Engine Items

RATIONALE

This document has been reaffirmed to comply with the SAE 5-year Review policy.

1. PURPOSE AND SCOPE:

To establish a standard for service time code markings on items in propulsion engines where such marking may be required for determining accumulated service time and remaining life expectancy.

2. GENERAL REQUIREMENTS:

- 2.1 Items as used herein refers to an individual part or to an assembly of parts which is identified by a single identification number.
- 2.2 Time, or service time, as used herein refers to operating time, not installed time.

3. DETAIL REQUIREMENTS:

- 3.1 A service time code shall be applied to items removed from service for overhaul or other reasons.
- 3.2 Only those items which are removed will be time coded at a given engine teardown. An item shall not be removed from an engine solely for the purpose of marking the service time code.
- 3.3 The following code shall be applied to supplement but not replace any life history maintained more precisely by other means.

- R Item installed at repair
- U Undeterminable service time
- N New item installed at overhaul
- Y Used item replaced at overhaul

- C Cycles (instead of hours) of service
- M Minutes (instead of hours) of service

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3.3 (Continued):

Number of hours, cycles, or minutes are represented either by the letter A or a Code number. To find the number of hours or cycles multiply the code number by 100 and add a tolerance of -49 to +50 hours or cycles. To find the number of minutes, multiply the code number by 3 and add a tolerance of ± 1 minute. For purposes of totalling service time, Code A is considered to mean 25 hours or cycles.

<u>MARKING</u>	<u>HOURS</u>	<u>MARKING</u>	<u>CYCLES</u>	<u>MARKING</u>	<u>MINUTES</u>
A	1-50	CA	1-50	MA	0-1
1	51-150	C1	51-150	M1	2-4
2	151-250	C2	151-250	M2	5-7
3	251-350	C3	251-350	M3	8-10
4	351-450	C4	351-450	M4	11-13
5	451-550	C5	451-550	M5	14-16
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
99	9851-9950	C99	9851-9950	M99	296-298

3.3.1 Rules for Applying Time Code:

- An item which has never been used in an engine shall be marked "N".
- An item for which a previous time history is not available shall be marked "U".
- All items for which a previous time history is available shall be marked with the appropriate code.
- Items shall be marked in such a manner that the accumulated time can be added to obtain the total time in service.
- The determination of total time on items previously used, and not coded, shall be based on the best available records. Subsequent updating of the code marking shall be based on applicable log book and records.

3.3.2 Interpretation of Code:

Examples –

- Item marked N/A/5/10
A new item installed at overhaul and has a total of $25 + 500 + 1000 = 1525$ service hours since installation.
- Item marked U/7/9/8
A used item which had an undetermined number of hours at first coding and has $700 + 900 + 800 = 2400$ service hours of known time.