

Installation Eligibility

Issues, Myths and Methods

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Overview

- ❑ **Part Marking Requirements (14 CFR 45.15)**
- ❑ **8110.42C**
- ❑ **TCDS**
- ❑ **PMA and TSOA**
- ❑ **License Agreement PMAs**
- ❑ **PMA via STC**
- ❑ **Adding Eligibility & Fixing Errors**

14 CFR § 45.15

➤ Amdt.45-14 (4/28/82)

Replacement and modification parts.

(a) Except as provided in paragraph (b) of this section, each person who produces a replacement or modification part under a Parts Manufacturer Approval issued under Sec. 21.303 of this chapter shall permanently and legibly mark the part with--

- (1) The letters "FAA-PMA";
- (2) The name, trademark, or symbol of the holder of the Parts Manufacturer Approval;
- (3) The part number; and
- (4) *The name and model designation of each type certificated product on which the part is eligible for installation.*

(b) *If the Administrator finds that a part is too small or that it is otherwise impractical to mark a part with any of the information required by paragraph (a) of this section, a tag attached to the part or its container must include the information that could not be marked on the part. If the marking required by paragraph (a)(4) of this section is so extensive that to mark it on a tag is impractical, the tag attached to the part or the container may refer to a specific readily available manual or catalog for part eligibility information.*

14 CFR § 45.15

➤ Amdt.45-26 (4/16/11)

Marking requirements for PMA articles, TSO articles, and Critical parts.

(a) PMA articles. The manufacturer of a PMA article must permanently and legibly mark--

(1) Each PMA article, with the PMA holder's name, trademark, symbol, or other FAA approved identification and part number; and

(2) The letters ``FAA-PMA".

(b) TSO articles.



Order 8110.42C

Installation Eligibility

- If the part is simple, non-critical, and not based on an STC, then an illustrated parts catalog (IPC) alone may suffice to show eligibility. Otherwise, the applicant must:
 - Identify at least one product for possible installation of the part. Identify the product by make and model, series, and serial numbers if necessary. [The applicant uses the model information found in the title box on the product's TCDS.](#)
 - Show where the part goes through a combination of an IPC, other supplements, service bulletins, and PAH repair manual data.

Order 8110.42C

Verification of Installation Eligibility

- A manufacturer's IPC offers information about installation eligibility.
- Consider using the IPC with other data like purchase orders from the PAH, service bulletins, maintenance manuals, a technical publications index, or a master drawing list.
- Other acceptable documentation is a combination of the following:
 - FAA airworthiness approval tag (FAA Form 8130-3),
 - Other PMA supplements, and
 - *"Weight of evidence"* evaluations using enough information from various sources to show eligibility.

- Accept use of the IPC alone as a means for verifying installation eligibility on non-critical parts.

- If the application lacks documentation from the TC or TSO authorization holder (or other FAA-approved data), then the ACO may consider other evidence from the applicant. To verify installation eligibility, check other documents including the type design's master drawing list.

Type Certificate Data Sheets

A16WE
Revision 52
BOEING
737-100 Series
737-200 Series
737-200C Series
737-300 Series
737-400 Series
737-500 Series
737-700 Series
737-800 Series
737-600 Series
737-700C Series
737-900 Series
737-900ER Series
Date December 4, 2013,

3A13
Revision 70
CESSNA
182
182A
182B
182C
182D
182E
182F
182G
182H
182J
182S
182T
182K
182L
182M
182N
182P
182Q
182R
R182
T182
TR182
T182T
December 20, 2011

Type Certificate Data Sheets

A28NM Revision 14	
Airbus	
<u>A318 Series</u>	<u>A320 Series</u>
A318 Model -111	A320 Model -111
A318 Model -112	A320 Model -211
A318 Model -121	A320 Model -212
A318 Model -122	A320 Model -214
	A320 Model -231
<u>A319 Series</u>	A320 Model -232
A319 Model -111	A320 Model -233
A319 Model -112	
A319 Model -113	<u>A321 Series</u>
A319 Model -114	A321 Model -111
A319 Model -115	A321 Model -112
A319 Model -131	A321 Model -131
A319 Model -132	A321 Model -211
A319 Model -133	A321 Model -231
	A321 Model -212
	A321 Model -213
	A321 Model -232
September 27, 2013	

A35EU Revision 26 Airbus	
<u>A300</u>	A300, Model B2-1A
	A300, Model B2-1C
	A300, Model B4-2C
	A300, Model B2K-3C
	A300, Model B4-103
	A300, Model B2-203
	A300, Model B4-203
<u>A310</u>	A310, Model 204
	A310, Model 221
	A310, Model 222
	A310, Model 203
	A310, Model 322
	A310, Model 324
	A310, Model 304
	A310, Model 325
<u>A300-600</u>	A300, Model B4-601
	A300, Model B4-603
	A300, Model B4-620
	A300, Model B4-605R
	A300, Model B4-622R
	A300, Model F4-605R
	A300, Model F4-622R
	A300, Model C4-605R Variant F
	A300, Model B4-622
May 8, 2012	

Type Certificate Data Sheets

TCDS NUMBER E38NE				TCDS NUMBER E00056EN		
REVISION: 12*				REVISION: 9*		
DATE: April 13, 2012				DATE: July 27, 2011		
CFM INTERNATIONAL, S.A.				CFM INTERNATIONAL, S.A.		
MODELS:				MODELS:		
CFM56-5B1	CFM56-5B1/P	CFM56-5B1/2P	CFM56-5B2	CFM56-7B20	CFM56-7B20/2	CFM56-7B20/3
CFM56-5B1/3	CFM56-5B2/3	CFM56-5B3/3	CFM56-5B3/3B1	CFM56-7B20E	CFM56-7B22	CFM56-7B22/2
CFM56-5B2/P	CFM56-5B2/2P	CFM56-5B3/P	CFM56-5B3/P1	CFM56-7B22/B1	CFM56-7B22/3	CFM56-7B22/3B1
CFM56-5B4/3	CFM56-5B4/3B1	CFM56-5B5/3	CFM56-5B6/3	CFM56-7B22E	CFM56-7B22E/B1	CFM56-7B24
CFM56-5B3/2P	CFM56-5B3/2P1	CFM56-5B4	CFM56-5B4/P	CFM56-7B24/2	CFM56-7B24/B1	CFM56-7B24/3
CFM56-5B4/P1	CFM56-5B4/2P	CFM56-5B4/2P1	CFM56-5B5	CFM56-7B24/3B1	CFM56-7B24E	CFM56-7B24E/B1
CFM56-5B5/P	CFM56-5B6	CFM56-5B6/P	CFM56-5B6/2P	CFM56-7B26/3	CFM56-7B26	CFM56-7B26/2
CFM56-5B7	CFM56-5B7/P	CFM56-5B8/P	CFM56-5B9/P	CFM56-7B26/B1	CFM56-7B26/3B1	CFM56-7B26/3B2F
CFM56-5B7/3	CFM56-5B8/3	CFM56-5B9/3	CFM56-5B9/2P	CFM56-7B26/3F	CFM56-7B26/B2	CFM56-7B26E
CFM56-5C2	CFM56-5C2/4	CFM56-5C2/F	CFM56-5C2/F4	CFM56-7B26E/B1	CFM56-7B26E/B2	CFM56-7B26E/B2F
CFM56-5C2/G	CFM56-5C2/G4	CFM56-5C2/P	CFM56-5C3/F	CFM56-7B26E/F	CFM56-7B27	CFM56-7B27A
CFM56-5C3/F4	CFM56-5C3/G	CFM56-5C3/G4	CFM56-5C3/P	CFM56-7B27AE	CFM56-7B27/3	CFM56-7B27/3F
CFM56-5C4	CFM56-5C4/P	CFM56-5C4/1	CFM56-5C4/1P	CFM56-7B26/3B2	CFM56-7B27/B1	CFM56-7B27/B3
				CFM56-7B27/2	CFM56-7B27/3B1	CFM56-7B27/3B3
				CFM56-7B27A/3	CFM56-7B27E/B1	CFM56-7B27/3B1F
				CFM56-7B27E/B3	CFM56-7B27E	CFM56-7B27E/F
				CFM56-7B27E/B1F		

PMA and TSOAs

PMA for TSOA Articles – Eligibility Listing

Installation eligibility for PMA parts (as listed on the PMA supplement) is for the product that the TSOA article is installed on – not the TSOA article itself.

Eligibility should be listed on the PMA supplement the same as the model information is found in the title box on the product's TCDS.

Do not list the TSO identification info (i.e. TSO-C77b)

Make Eligibility	Model Eligibility
Bombardier	CL-600-2B19 When Allied Signal (Garrett) GTCP36-150(RJ) APU is installed

PMA and TSOAs

Make Eligibility	Model Eligibility
Empresa Brasileira de Aeronautica S.A	Each aircraft when equipped with Goodrich Main Brake Assemblies 3-1550, 3-1550-1: EMB-145 EMB-145ER EMB-145MR EMB-145LR EMB-135ER EMB-135LR EMB-135KE EMB-135KL EMB-135BJ EMB-145XR EMB-145MP EMB-145EP

Eligibility (Make)	Eligibility (Model)
Lockheed Martin Corporation	The following aircraft with an Aircraft Braking System Corp. Brake Assembly 9560685 installed: 382, 382B, 382E, 382F, 382G
Lockheed Martin Corporation	The following aircraft with an Aircraft Braking System Corp. Brake Assembly 9560685-1 installed: 382J

PMA and TSOAs

PMA for TSOA Articles – Eligibility Substantiation

Substantiating data linking the PMA part to the TCed product (via the TSOA article) can often be difficult to obtain.



Capturing all potential product eligibility requires a thorough understanding of the TSOA article applications (especially for interior articles installed via STC).

Identicality by License Agreement

Eligibility Substantiation – Identicality by License Agreement

If a PMA applicant obtains a PMA Assist Letter from a TSOA holder, the information provided may not adequately link the PMA P/N to the product.

Example from PMA Assist Letter

Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
TSO-C127a Date: 5/8/2003 B/E Envel. Dwg. 36224 Rev. F Date: 7/31/2007 Or later FAA approved revisions	Boeing	777

Identicality by License Agreement

Identicality by License Agreement

The “PMA assist letter” must include the following (Per 8120.2G)

- Product model, name, and TC/STC number.
- Information on the article’s eligibility for installation (product make, series, model, and if appropriate, the serial number per the type certificate data sheet).
- Etc.

Articles Installed Via STC

8110.42C

- If the PMA is for parts from an STC, the installation eligibility follows eligibility requirements in the STC.

AC 21-40A

- **AML:** Special case of multiple STC using an *approved model list* to control installation eligibility, so adding new make and model products does not require amending the STC.

Adding Eligibility & Fixing Errors

8120.22 (Production Approval Procedures) 2/25/2013

Revising/Amending the PMA Supplement

- PMA supplements are amended to accommodate installation eligibility and/or removal of part number changes.
- As applicable, the MIDO or ACO revises the original PMA supplement to correct typographical errors in data.

Thank You

Questions?

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