



<b>SERVICE KIT NUMBER 15</b>			
<b>TITLE: 675 SHP PT6A-114A Engine Installation</b>			
BY: J. SORTOR	AIRCRAFT MAKE/MODEL(S):	FLOAT MODEL(S):	NOTE(S):
APP: D.GARRETT	Cessna 208	8000 Floats	OPTIONAL COMPLIANCE
DATE: 7/24/12		8750 Floats	S/L P/N 1002498
REV: B			ECO--22797

**FAA APPROVAL HAS BEEN OBTAINED FOR TECHNICAL DATA IN THIS PUBLICATION THAT AFFECTS STC OR TSO DESIGN COMPLIANCE**

**EFFECTIVITY:**

CESSNA CARAVAN 208 S/N 20800001 AND UP

**BACKGROUND:**

PT6A-114 (600 S.H.P.) engine may be replaced with PT6A-114A (675 S.H.P.) engine per Wipaire Service Kit 15

**COMPLIANCE METHOD:**

Optional, may be accomplished if desired

**APPROX. SHOP HOURS:**

AS REQUIRED

**WARRANTY INFORMATION:**

Not applicable.



TECHNICAL DATA:

MODEL: Cessna 208 Caravan

**Items required but not included in Service Kit 15**

<u>Item</u>	<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	1	PT6A-114A	Engine
2	1	3GFR34C703/106GA-0	Propeller (McCauley)
	1	E6383	Ass'y-Spinner (McCauley)
3	1	SK208-40	Large Oil Cooler Inst.(Cessna) (req'd S/N 208 S/N 20800001 thru S/N 20800145)
4	1	STC SA149CH	STC, Wipaire "Caravan 675" Engine Conversion
5	1	POH Supplement	SEE 6B1-2020 Applicable POHS
6	1	W-208/PT6A-114A	Aircraft Modification

**Items included in Service Kit 15**

<u>Item</u>	<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	1	AE3663161E0113	Assy, Hose
2	2	AE3663163E0230	Assy, Hose
3	1	AE3663163K0600	Assy, Hose
4	2	AE3663724E0144	Assy, Hose
5	1	AE3663724G0330	Assy, Hose
6	1	AE3663726H0520	Assy, Hose
7	6	LM600-9	Mount
8	3	LM600-60	Mount
9	1	S2616-285K4	Belt, Alternator
10	1	46-4686	Belt, Air Conditioning
11	1	Va Manuv. Placard	Ref: 6B1-2020 Drawing
12	1	2605031-2	Placard(Take Off Torque Setting Air Cond.) (Cessna)
13	1	2605052-1	Placard (Rpm - Max Torque) (Cessna)
14	2	MS21069LO4	Nutplate
15	4	MS20426D2-4	Rivet
16	2	MS35214-12	Screw
17	1	NAS147-82	Bolt, Internal Wrench
18	2	NAS147-84	Bolt, Internal Wrench
19	1	NAS147-97	Bolt, Internal Wrench
20	3	NAS148A94	Bolt, Internal Wrench
21	5	MS20002C4	Washer
22	5	MS20002C5	Washer
23	5	MS20002C6	Washer
24	5	MS20002C7	Washer
25	5	MS20002C8	Washer
26	5	NAS1149C0863R	Washer
27	2	M83248/1-016	O Ring
28	1	3014226	Packing

Instructions:

Note: This approval also covers the installation of the McCauley propeller and spinner (Ref 3. above) on the 600 HP PT6A-114 engine installation. Installation procedure and propeller rigging is identical to the 675 HP installation.

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AIRCRAFT MODIFICATION INSTRUCTIONS  
MOD NO. W-208/PT6A-114A

INSTALLATION INSTRUCTIONS - SERVICE Kit #15:

1. 675 SHP PT6A-114A engine and McCauley propeller and spinner installation.
  - A. Remove existing 600 SHP PT6A-114 engine per chapter 71 of the Cessna 208 maintenance Manual No. D2077-2-13AF.
  - B. Install 675 SHP PT6A-114A engine and McCauley propeller per chapter 71 and 61A-00 of the 208 Maintenance Manual No. D2077-2-13AF.
  - C. Remove existing torque indicator located in the upper LH portion of the instrument panel and send to an instrument shop, such as Mid-Continent Instruments for remarking in accordance with Wipaire drawing 1005805.
    - C.1. Optionally, rather than remarking, the torque indicator may be replaced with a different model. See below for model applicability.

If aircraft previously had a mechanical torque gauge:  
Replace with 2606011-3 or 2606011-3RX.

If aircraft previously had an electric torque gauge:  
Replace with 10263N01W00 (alternate SE-OC2H). If the electric torque gauge is replaced, the torque pressure transmitter must also be replaced with 10298T01W00 (alternate PTD102J).

- D. Locate the new RPM-TORQUE placard over the existing silkscreen on the panel. Using the new placard as a template, mark and drill holes. Place the nutplates over the holes and using them as templates, mark, drill and countersink holes as shown. Be careful not to damage existing silkscreen placard since it may be used if the airplane is converted back to PT6A-114 engine. Install and secure nutplates with rivets. Install placard and secure with screws.
- E. If airplane is equipped with air conditioning, remove existing 2605031-1 placard and replace it with placard 2605031-2.
- F. If airplane is not equipped with a large oil cooler installation, install SK208-40 Large Oil Cooler Installation Kit.



G. Reference 6B1-2020 for applicable PILOTS OPERATING HANDBOOK SUPPLEMENT and required installation data.

2. Make an entry in the airplane logbook stating this Service Kit #15 has been installed.

WEIGHT AND BALANCE CHANGE:

Weight Increase - 1.0  
Arm                    59.

### END ###