



SERVICE KIT NUMBER 15			
TITLE: 675 SHP PT6A-114A Engine Installation			
BY: MAS	AIRCRAFT MAKE/MODEL(S): Cessna 208	FLOAT MODEL(S): 8000 Floats 8750 Floats	NOTE(S): OPTIONAL COMPLIANCE P/N 1002498
APP: SDW			
DATE: 2/3/2022			
REV: C			

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 (1002498-01)

<u>Item</u>	<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	2	AE3663161E0113	Assy, Hose, Aeroquip, 1/2"
2	1	AE3663163E0230	Assy, Hose, Aeroquip, 1/2"
3	2	AE3663163K0600	Assy, Hose, Aeroquip, Size 12, 1"-12 Thread
4	1	AE3663724E0144	Assy, Hose, Aeroquip, 1/2"
5	1	AE3663724G0330	Assy, Hose, Aeroquip, 1/2"
6	1	AE3663726H0520	Assy, Hose, Aeroquip, Size 8, 5/8-18 Thread
7	6	LM600-9	Mount, 1/2" DIA
8	3	LM600-60	Mount, 1/2" DIA
9	1	285K4	Belt, Alternator
10	1	46-4686	V-Belt, Air Conditioning
11	1	2605031-2	Placard, When Takeoff Torque
12	1	2605052-1	Placard, RPM Max Torque
13	2	MS21069L04	Nutplate, Two Lug, Self-Locking, 4-40
14	4	MS20426D2-4	Rivet, Countersunk, 1/16" DIA, 1/4" Length
15	2	MS35214-12	Screw, Pan Head, 4-40, 3/16"
16	1	NAS147-82	Bolt, Internal Wrench, 7/16-20 Thread, Grip 5-1/8"
17	2	NAS147-84	Bolt, Internal Wrench, 7/16-20 Thread, Grip 5-1/4"
18	1	NAS147-97	Bolt, Internal Wrench, 7/16-20 Thread, Grip 6-1/8"
19	3	NAS148A94	Bolt, Internal Wrench, 1/2-20 Thread, Grip 5-7/8"
20	5	MS20002C4	Washer, High Strength, Fit DIA 1/4", Countersunk
21	5	MS20002C5	Washer, High Strength, Fit DIA 5/16", Countersunk
22	5	MS20002C6	Washer, High Strength, Fit DIA 3/8", Countersunk
23	5	MS20002C7	Washer, High Strength, Fit DIA 7/16", Countersunk
24	5	MS20002C8	Washer, High Strength, Fit DIA 1/2", Countersunk
25	5	NAS1149C0863R	Washer, Fit DIA 1/2", Standard Thickness
26	2	M83248/1-016	O Ring
27	1	3014226	O Ring, Packing, 9/16" DIA

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.

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). APT51CC75D (SK208-150) can also be used as an alternate pressure transmitter.
 - 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