

MODELS: Fleet 80, 2 PCLM-SM

SPEC. NUMBER: 788 (Approved 1/29/47)

Engine	Continental C-55-12J
Fuel	73 minimum octane aviation gasoline
Engine limits	For all operations, 2575 rpm (85 hp)
Airspeed limits	Level flight or climb - 112 mph Glide or dive - 150 mph
C.G. range	Landplane: (+66.6) (14.85 percent MAC) to (+77.55) (32.2 percent MAC) Seaplane: (+67.4) (16.11 percent MAC) to (+75) (28.17 percent MAC)
Datum	34 in. forward of firewall (58.25 in. forward of b axle main L.G.)
MAC	63 in. L.E. MAC 57.25 in.
Leveling means	Firewall perpendicular
Maximum weight	Landplane 1425 lbs. Seaplane 1525 lbs.
No. of seats	2 (adjustable from +76 to +80)
Baggage	105 lbs. maximum (+116)
Fuel capacity	19 gallons (+41)
Oil capacity	(4.5 quarts) (+19)
Control surface movements	Elevator: 30 degrees up, 20 degrees down, \pm 2 degrees Aileron: 23 degrees up, 14 degrees down, \pm 2 degrees Rudder: 30 degrees left, 30 degrees right, \pm 2 degrees Elevator trim tab: 20 degrees up, 20 degrees down, \pm 5 degrees
Cert. basis	Canadian Certificate of Airworthiness for Export
Serial Nos. eligible	002 and up in accordance with the provisions of NOTE A (See also NOTE 1)
Required equipment:	Landplane: 1(a), 101, 201, 202, 203, 204, 205 and 601 Seaplane: 1(b), 101, 204, 206, 301, 302, 303, 304 and 601

EQUIPMENT:

(Items included under "Required equipment" may not be removed unless replaced by approved equivalent items. The effect upon balance of all equipment changes must be computed and the aircraft operation record revised accordingly.)

Propeller and Propeller Accessories

1. Propeller - fixed pitch wood
 - (a) Sensenich 74FC-48 for -12J engine,
or 74FK-48 for -12JF engine,
including weight of propeller
hub (Landplane only). Propeller

	limits: Static rpm at full throttle - not more than 2150, not less than 2000.	14 lbs.	(0)
(b)	Sensenich 76RC-40 for -12J engine, or 76RK-40 for -12JF engine, including weight of propeller hub. Propeller limits: Static rpm at full throttle - not more than 2260, not less than 2180.	14 lbs.	(0)
2.	Propeller - plastic ground adjustable		
(a)	Hartzell HA-12UO with blade 7214 for -12J engine. Propeller limits: Static rpm at full throttle; (Landplane) - Not more than 2400, not less than 2000, minimum blade angle pitch setting 13 degrees; (Seaplane) - Not more than 2400, not less than 2300; approved blade setting 13 degrees.		
3.	Propeller spinner	Neglect weight	
Engine and Engine Accessories			
101.	Air Maze- Air Filter		
102.	Engine		
(a)	Continental C-75-12J (Landplane only) Engine limits - all operations 2275 rpm (75 hp)		
(b)	Continental C-85-12FJ Engine limits - all operations 2575 rpm (85 hp)	-4 lbs.	(0)
103.	Long range fuel tank installation (25 gallons) (See NOTE 4)	+3 lbs.	(+31)
Landing Gear and Floats			
201.	6.00-6 single disk wheels and brakes (Goodyear Drawing PD127 #1) with tires		
202.	Scott tail wheel - Type No. 3-24E		
203.	Scott 5/8" diameter brake master cylinder		
204.	Brake pedals Fleet Drawing No. 80-2121-120		
205.	Parking brake installation, Fleet Drawing No. 80-2124-000		
206.	Float installation to Fleet Drawing 80-7000	+127.5	(+60)
	or 80-7001	+117.5	(+60)
	using Fleet floats to Fleet Drawing No. 80-7110 or 80-7111		
207.	(a) Ski installation to F.M.A.L. Drawing No. 80-6300 Rev. A using Northwest main ski to Nw. Drawing No. 17-03001 Issue E and Northwest tail ski to Nw. Drawing No. 17-03002 Issue D.		
	(d) Ski installation to F.M.A.L. Drawing No. 90-6400 using F.M.A.L. main ski to Drawing No. 80-6410 and F.M.A.L. tail ski to Drawing No. 80-6420.		
Electrical Equipment			
301.	Battery installation - Reading Type 24L	+26 lbs.	(+31)
302.	Starter installation - Continental Drawing No. 50309	+17 lbs.	(+23.5)
303.	External starting plug installation F.M.A.L. Drawing No. 80-2052-000	+0.5 lbs.	(+31.5)
304.	Generator installation, voltage regulator and ammeter (Continental Drawing No. 40435 and 40483)	+12 lbs.	(+39)
Miscellaneous (not listed above)			
601.	Elevator trim tab control		

NOTE A. The Canadian Certificate of Airworthiness for Export must be submitted for each individual aircraft for which application for certification is made and each aircraft shall be inspected by a CAA inspector.

NOTE 1.

(a) All aircraft serial numbers 142 and up as well as a number of

aircraft prior to serial number 142 are factory equipped with attachments for skis (Item 207(b)). Other aircraft may be made eligible for Item 207(a) or 207(b) by welding on suitable fittings.

- (b) Aircraft serial numbers 016, 025 and up are factory equipped with seaplane fittings. Aircraft serial numbers 142 and up are factory fitted with seaplane cowling and baffles. All aircraft are eligible when suitable fittings are welded on and when seaplane baffles are installed according to Fleet Modification No. 80-27.

NOTE 2. The following placard must be appropriately displayed:
"Intentional Spins Prohibited if Baggage Carried."

- NOTE 3. Aircraft should be checked for conformity with the following:
- (a) The words "fuel 19 gals." and "73 octane" should be marked adjacent to the fuel tank filler opening.
 - (b) The words "oil 4.5 quarts" should be marked adjacent to the oil filler opening.
 - (c) Cockpit instruments should be marked to indicate the proper airspeed and engine limitations.