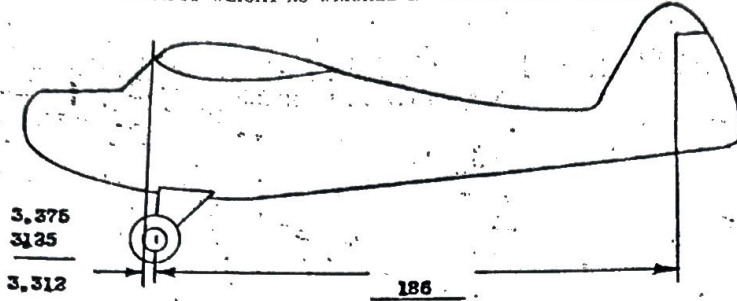


MODEL: LP-66
 SERIAL: 888
 NO. NO: 33438

PORTERFIELD AIRCRAFT CORPORATION
 KANSAS CITY, MISSOURI

SECTION I - AIRCRAFT EMPTY WEIGHT

A. EMPTY WEIGHT AS WEIGHED IN LEVEL FLYING POSITION



	SCALE	TARE	NET
RIGHT WHEEL	329		329
LEFT WHEEL	332		333
TAIL	55	-4	51
TOTAL			712

C. G. AFT C. L. AXLE - 186(51) --- 13.32
 712
 C. G. AXLE AFT L. E. WING ---
 -3.31
 C. G. AS WEIGHED IS AFT L. E. WING ---
 -16.63

B. EMPTY WEIGHT AS WEIGHED INCLUDES THE FOLLOWING

1. Standard Equipment:

ITEM	WEIGHT
PROPELLER AND HUB Fahlin D-588 TC 681 SER. 4742	10
FIRE EXTINGUISHER	.75
AIR SPEED	.50
ALTIMETER	1.00
OIL PRESSURE AND TEMPERATURE GAUGE	1.75
TACHOMETER	.25
IGNITION SWITCH	.25
WHEELS AND TIRES Shinn 602HB TC 63 Firestones 600-6 (PLY) 2	23
TAIL SKID AND SPRING	5
SAFETY BELTS (2)	1.50
SEAT BOTTOM CUSHIONS (2 LEATHERETTE)	.50
FIRST AID KIT	.20
AIRCRAFT AND ENGINE LOG BOOKS	.20

2. Items for which approval as optional equipment is desired:

ITEM	WEIGHT	ARM	MOMENT
Steerable tail wheel	5.	195	975
Brakes	6.8	3	.20
Compass	1	-4	-4

MODEL: 17-65
 SERIAL: 868
 NO.: NC 52438

PORTERFIELD AIRCRAFT CORPORATION
 KANSAS CITY, MISSOURI

SECTION II—MOST FORWARD C. G. LOADING CONDITION

ITEM	WEIGHT	ARM	MOMENT
WEIGHT EMPTY	712	16.63	11840
OIL (1 GAL.)	7.5	-37	-277
FUEL (13.5 GAL.)	81.	-16	-1396
PILOT AND CHUTE	190.	8	1520
<hr/>			
C. G. AFT L. E. M.A.C.	11.90 - .24 = 11.66	990.5	11.90 11787
C. G. PERCENT M.A.C.	$\frac{-11.66}{59.04} \times 100 = 19.75\%$		

SECTION III—MOST REARWARD C. G. LOADING CONDITION

ITEM	WEIGHT	ARM	MOMENT
WEIGHT EMPTY	712.	16.63	11840
OIL (1 GAL.)	7.5	-37	-277
FUEL (MIN. FOR BALANCE)	32.6	-16	-520
PILOT AND CHUTE (REAR SEAT)	190.	35.8	6802
BAGGAGE	10	52	520
<hr/>			
C. G. AFT L. E. M.A.C.	19.29 - .24 = 19.05	952	19.29 18365
C. G. PERCENT M.A.C.	$\frac{-19.05}{59.04} \times 100 = 32.27\%$		

SECTION IV—NORMAL FULL GROSS

ITEM	WEIGHT	ARM	MOMENT
WEIGHT EMPTY	712.	16.63	11840
OIL (1 GAL.)	7.5	-37	-277
FUEL (MIN. FOR HORSEPOWER)	60.	-16	-960
PILOT	170	8	1360
PASSENGER	170	35.8	6086
BAGGAGE	40	52.	2080
<hr/>			
	1159.5	17.36	20129

C. G. AFT L. E. M.A.C. 17.36 - .24 = 17.12
 C. G. PERCENT M.A.C. $\frac{-17.12}{59.04} \times 100 = 28.99\%$
 C. G. LIMITS ARE IN ACCORDANCE WITH SPEC. NO. 720
 (10.5 IN. AFT L. E. OF WING) 19.3 IN.)

PLACARD

- MAXIMUM CAPACITY OF BAGGAGE COMPARTMENT — 40
- SOLO REAR SEAT — 10
- PAY LOAD (10 GAL. OF FUEL) — 210
- PAY LOAD (13.5 GAL. OF FUEL) — 189

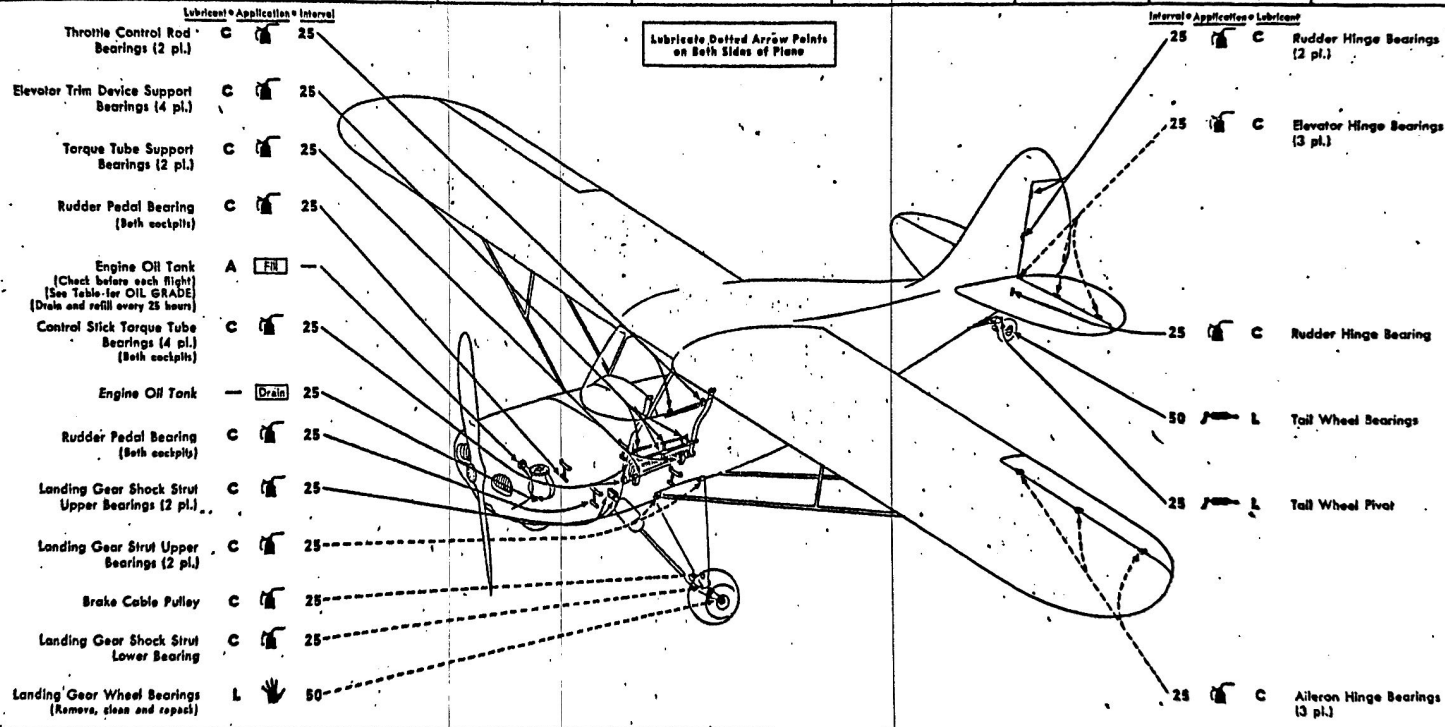


PORTERFIELD COLLEGIATE



Page

SHELL FUEL AND OIL RECOMMENDATIONS						TANK CAPACITIES	TIRES	INTERVAL	APPLICATION	AeroShell LUBRICA	
PLANE MODEL	ENGINE		SHELL FUEL GRADE	AeroShell OIL D GRADE							
	MAKE	MODEL		Ground Temperature							
			Above 70°F.	70°F. to 20°F.	Below 20°F.						
CP-65	Continental	A-65-8-9	80	80D (SAE 40)	65D (SAE 30)	55D (SAE 20)	Engine Oil—4 qt.	Main Landing Gear 6.00-6 18 lb.	25 = 25 Hours	☞ = Grease Gun ☞ = Oil Can ☞ = Hand	A = AeroShell Oil D C = AeroShell Fluid C L = AeroShell Greas
LP-65	Lycoming	O-145-B1	80	80D (SAE 40)	80D (SAE 40)	65D (SAE 30)	Fuel—13 1/2 gal.	Tail Wheel 6-2.00 Solid	50 = 50 Hours		
FP-65	Franklin	4AC-176-B2	80	55D (SAE 20)	55D (SAE 20)	55D (SAE 20)					



NOTES

1. MISCELLANEOUS — Every 25 hours, lubricate Throttle Lever Connecting Linkage, Throttle Cable End and Carburetor Heat Control Linkage with C.
2. DO NOT LUBRICATE — Control Cables or Pulleys.