

MODELS: Beechcraft E17B (Army UC-43D), SE17B, E17L

T.C. NUMBER: 641

I - Model E17B (UC-43D), 5 PCLB, (Approved 5/22/37)

(Same as F17D, T.C. 689, except engine installation)

Engine	Jacobs L-5, L-5M or L-5MB
Fuel	73 min. octane aviation gasoline
Engine limits	For all operations, 2000 rpm (265 hp)
Airspeed limits	Level flight or climb - 183 mph True Ind. Glide or dive - 222 mph True Ind. Flaps extended - 115 mph True Ind.
Propeller limits	Maximum permissible diameter 107 in. (for clearance)
C.G. range	(+17.4) (8.4 percent MAC) to (+27.4) 26 percent MAC)

Maximum weight	3390 lbs.
No. seats	5 (2 at (+18), 3 at (+62))
Maximum baggage	125 lbs. (+88) (See Item 216)
Fuel capacity	77 gallons (3 tanks, 1 fuselage 29 gallons (+32), 2 lower wing 24 gallon each (+24)) (See NOTES 2 and 3 and Item 314)
Oil capacity	5 gallons (-16)
Control surface movements	Not available
Serial Nos. eligible	138 and up and all AAF Nos.
Required equipment	Items 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113 and 114

II - Model SE17B, 5 PCSB (Approved 8/9/37)

Engine	Jacobs L-5, L-6M or L-5MB
Fuel	73 min. octane aviation gasoline
Engine limits	For all operations, 2000 rpm (285 hp)
Airspeed limits	Level flight or climb - 167 mph True Ind. Glide or dive - 202 mph True Ind. Flaps extended - 115 mph True Ind.
Propeller limits	Maximum permissible diameter 104 inches (for clearance)
C.G. range	(+20.0) (12.9 percent MAC) to (+28.7) (28.2 percent MAC)
Maximum weight	3740 lbs.
No. seats	5 (2 at (+18), 3 at (+62))
Maximum baggage	125 lbs. maximum (+88) (See Item 216)
Fuel capacity	77 gallons (3 tanks, 1 fuselage 29 gallons (+32), 2 lower wing 24 gallons each (+24)) (See NOTES 2 and 3 and Item 314)
Oil capacity	5 gallons (-16)
Control surface movements	Not available
Serial Nos. eligible	138 and up
Required equipment	Items 101, 102, 103, 104, 105, 108, 109, 110, 111, 113, 114, 151, 152, and 153

III - Model E17L, 5 PCLB (Approved 10/18/37)

(Same as E17B except engine installation)

Engine	Jacobs L-4, L-4M, or L-4MB
Fuel	73 min. octane aviation gasoline
Engine limits	For all operations, 2000 rpm (225 hp)
Airspeed limits	Level flight or climb - 193 mph True Ind. Glide or dive - 222 mph True Ind. Flaps extended - 115 mph True Ind.
Propeller limits	Maximum permissible diameter 107 in. (for clearance)
C.G. range	(+17.4) (8.4 percent MAC) to (+27.4) (26 percent MAC)
Maximum weight	3390 lbs.
No. seats	5 (2 at (+18), 3 at (+62))
Maximum baggage	125 lbs. maximum (+88) (See Item 216)
Fuel capacity	77 gallons (3 tanks, 1 fuselage 29 gallons (+32), 2 lower wing 24 gallons each (+24)). (The E17L standard capacity is 53 gallons (2 tanks) elimi- nating 1 lower wing tank.) (See NOTES 2 and 3 and Item 314)
Oil capacity	5 gallons (-15)
Control surface movements	Not available
Serial Nos. eligible	138 and up
Required equipment	Items 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, and 114

Specifications Pertinent to All Models:

Datum	Leading edge of lower wing
MAC	57.2 in. (L.E. MAC (+12.6))
Leveling means	Airplane level when stagger (horizontal distance between wing trailing edges near fuselage) is 25.6 inches.
Certification basis	Type Certificate No. 641 (Aero Bulletin 7A)
Production basis	None (See NOTE A)
Export eligibility	Eligible for export as follows subject to provisions of MOP 2-4: (a) Canada - Landplane - eligible - Skiplane - not eligible However, structure complies with Canadian

requirements for ski gear when Item 310 installed. Maximum pedestal height 17 inches. Tread is same as landplane.  
 - Seaplane - maximum weight 3700 lbs.  
 (b) All other countries except New Zealand

EQUIPMENT: A plus (+) or minus (-) sign preceding the weight of an optional item indicates the net weight change between that item and the equivalent required item.

Propeller and Propeller Accessories

114.	Propeller - fixed pitch metal (Curtiss 55501)	56 lbs.	(-59)
218.	Constant speed governor (Hamilton Standard type A4)	5 lbs.	(-22)
223.	Propeller - Hamilton Standard hub 2B20, blades 6135A-9 or 6135A-10. Diameter 8' 3-1/8" maximum, 8' 7/8" minimum (for E17B and SE17B only)	104 lbs.	(-59)

Engine and Engine Accessories - Fuel and Oil System

101.	Engine ring cowling (NACA type)	30 lbs.	(-44)
102.	Carburetor air heater (muff type)	2 lbs.	(-44)
103.	Starter (Eclipse E80)	20 lbs.	(-26)
109.	Oil radiator (Drawing E179850 or Harrison 3074410)	8 lbs.	(-34)
110.	Wobble pump (type D-2)	4 lbs.	(+12)
111.	Engine driven fuel pump (Pesco 400 series or Romec RD-3080) (See NOTE 2)	5 lbs.	(-28)
204.	Oil tanks - 6.5 or 8 gallons	5 lbs.	(-16)
205.	Auxiliary fuel tanks		
	(a) One 23 or 24 gallon tank, upper right wing	20 lbs.	(+47)
	(b) One 23 or 24 gallon tank, upper left wing	20 lbs.	(+47)
	(May replace lower wing tanks)		
207.	Ignition shielding		
	(a) Breeze or Titeflex	15 lbs.	(-45)
	(b) Packard	10 lbs.	(-45)
219.	Special oil drain and oil radiator by-pass valve	2.5 lbs.	(-28)
220.	Exhaust gas analyzer (Breeze or Cambridge)	5 lbs.	(-8)
222.	Auxiliary engine drive units		
	(a) Jacobs No. 669C (3 drives)	7 lbs.	(-26)
	(b) Jacobs No. 768 or 776 (2 drives)	4 lbs.	(-26)
314.	Two 23 gallon fuel tanks - 1 in each lower wing (replacing 24 gallon tanks)	No weight change	

Landing Gear and Floats

106.	7.50-10 wheels (Goodyear 10HBM) with 7.50-10 4-ply tires	75 lbs.	(+5)
107.	10x3 tail wheel	5 lbs.	(+205)
151.	Edo 39-4000 floats with water rudders		
305.	Dual brakes (copilot)	+2 lbs.	(-8)
306.	Hand operated parking brake	2 lbs.	(-4)
307.	Emergency wood landing skids (Drawing E170140)	16 lbs.	(+22)
308.	Puncture proof tubes	+8 lbs.	(+5)
310.	Skiplane landing gear (Drawing E17820 and E17840)	+3 lbs.	(+20)
311.	10-in. smooth contour tail wheel assembly with 6-ply tire	+1 lb.	(+205)

Electrical Equipment

104.	Generator (Eclipse LV-180) (15 amp)	15 lbs.	(-28)
105.	Battery (Exide 6TS-13-1) (in engine compartment)	36 lbs.	(-21)
112.	Landing gear motor (Dumore D5, 40 amp fuse required)	9 lbs.	(+7)
113.	Flap motor (Dumore KL, 30 amp fuse required)	8 lbs.	(+45)
201.	Generator		
	(a) 15 amp (Eclipse G)	15 lbs.	(-28)
	(b) 25 amp (Eclipse D)	20 lbs.	(-28)
	(c) 50 amp (Eclipse E)	25 lbs.	(-28)
217.	Landing lights		
	(a) 1 or 2 (Hall A-6)	4 lbs. each	(+35)
	(b) 1 or 2 (Grimes ST-250)	4 lbs. each	(+21) or (+4)
	(c) 1 or 2 (Grimes ST-1000 or ST-1220)	4 lbs. each	(+21)
312.	Flap motor (Dumore K special 4253)		

	flexible drive) (30 amp fuse required)	5 lbs.	(+45)
313.	Cannon plug (for electric starter)	3 lbs.	(-2) or (-1)
Interior Equipment			
108.	Swing-over control column (See Item 301)	11 lbs.	(+6)
202.	Cabin heater (muff type)	3 lbs.	(-30)
203.	Fire extinguisher (pressure type)		
	(a) Lux - 2 lbs.	12 lbs.	(-3)
	(b) Lux - 5 lbs.	17 lbs.	(-13)
	(c) Pyrene No. 5C	12 lbs.	(-10)
	(d) Ace	10 lbs.	(-10)
	(e) Lux - 5 lbs. (Drawing I-170555)	21 lbs.	(+60)
206.	Parachute flares		
	(a) 3 or 4 1-1/2 minute (International MK-1)	6 lbs. ea.	(+80) or (+108)
	(b) 1 or 2 3-minute (Wiley A-8)	18 lbs. each	(+105)
209.	Parachutes or parachute type chairs or parachute hammock in rear seat back		
211.	Vacuum equipment		
	(a) Pump (Pesco 194, Romec RD-2112, or Eclipse 3166B-1) (See Item 222 under Engine Accessories)	5 lbs. each	(-20) or (-26)
	(b) Venturi tubes	1 lb.	(-4)
301.	Control column "T" type (See Item 108)	11 lbs.	(+6)
309.	Folding back seat (may replace standard front seats)	16 lbs.	(+21)
Miscellaneous (not listed above)			
152.	Auxiliary seaplane fin (Drawing D17635)	5 lbs.	(+220)
153.	Water rudder control system	4 lbs.	(+110)
208.	Golf compartment (Drawing I-17006) (maximum capacity 70 lbs. included in baggage allowance)	9 lbs.	(+100)
212.	Extra cabin door on right side	+5 lbs.	(+42)
213.	Fuselage alterations for special- purpose equipment		
	(a) Photographic version (Item 214) includes front and rear floor windows, camera and viewfinder wells, and change in location of rudder cables (Drawings D17015 and D170160)	+13 lbs.	(+33)
	(b) Ambulance version (Item 215) includes rear seat center support and litter floor attachments (Drawings I-17073 and I-17077)	+2 lbs.	(+53)
	(c) Mailplane version (Item 216) includes rear seat center support and metal lined baggage compartment and right rear of cabin (Drawing I-170812 and I-170813)	+15 lbs.	(+73)
214.	Photographic version (See Item 213(a))		
	(a) Camera and viewfinder	110 lbs. maximum	(+51)
	(b) Photographic stool (These items (a and b) may be installed after fuselage alterations (Item 213(a)) have been made, and standard rear seat, 31 lbs. (+67), camera and viewfinder cover plates, 3 lbs. (+51), have been removed)	4 lbs.	(+65)
215.	Ambulance version (See Item 213(b))		
	(a) Special right or left rear seat (Drawing I-17073) (may replace standard rear seat, 31 lbs. (+67) if fuselage alterations (Item 213(b)) have been made)	17 lbs. each	(+67)
	(b) First aid box installation	7 lbs.	(+48)
	(c) Ambulance litter and two safety belts (may be installed after fuselage alteration (Item 213(b)) and removal of right half rear seat (a), and copilots seat 16 lbs. (+21))	14 lbs.	(+42)
Miscellaneous			
216.	Mail plane version (See Item 213(c))		
	(a) Same as 215(a) except Drawing I-170812		
	(b) Removable front and inner sides of forward mail compartment (See (c))	10 lbs.	(+62)
	(c) Mail compartment and capacities:		

	1. Front	200 lbs. maximum (+54)
	2. Rear	160 lbs. maximum (+88)
221.	Ballast at tailpost (Drawing I-17007) maximum	25 lbs. (+224)
302.	Metal cover for lower wing fuel tank	3 lbs. (+24)
304.	Quick door release	1 lb. (+25)

NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system).

NOTE 2. Airplanes up to and including serial number 145 were originally certificated with gravity fuel systems and did not require Item 111. The standard E17B gravity fuel system consisted of 77 gallons (three tanks, one fuselage 29 gallon (auxiliary), 2 upper wing 24 gallons each). The standard E17 gravity system consisted of 48 gallons in two upper wing tanks (24 gallons each). All auxiliary tanks pumped into right upper wing tank.

NOTE 3. Airplanes bearing serial numbers above 145 have pressure fuel systems and the fuel restriction placard must state, "Use fuselage tank for take-off and landing. Fill fuselage tank before filling wing tanks. Use wing tanks before using fuselage tank." When upper wing fuel tanks are also installed, add, "Fill lower wing tanks before filling upper wing tanks. Use upper wing tanks before using lower wing tanks."

NOTE A. Prior to original certification, each aircraft manufactured subsequent to August 7, 1945, must satisfactorily pass:

- (a) An inspection for workmanship, materials and conformity before covering metal priming or final finish is applied.
- (b) A final inspection of the completed aircraft.
- (c) A check of the flight characteristics.