

**RYAN AERONAUTICAL COMPANY**

**MODELS:** Ryan SCW-145, 3 PCLM

**T.C. NUMBER:** 658

Engine	Warner Super Scarab Series 50 or 50A
Placard limits	For all operations, 2050 rpm (145 hp)
Propeller	Maximum permissible diameter 84 inches
Placard speeds	Level flight or climb - 147 mph True Ind. Glide or dive - 198 mph True Ind. Flaps extended - 108 mph True Ind.
Fuel capacity	37 gallons (one tank in fuselage) 25 lbs. (-25)
Oil capacity	3 gallons (one tank in engine compartment) 7 lbs. (-36)
No. passengers	2 (+4, +31) (crew at +4)
Baggage	190 lbs. (single compartment in rear of cabin) (+31) (See NOTE 2)
Maximum weight	2150 lbs.
C.G. limits	(-4.7) and (+2.1) Level for weighing on longitudinals at bottom of cabin door.
Specification basis	Type Certificate No. 658 (Aero Bulletin 7A requirements)
Serial numbers	201 and up eligible per NOTE A

**EQUIPMENT:** (Datum is centerline of the wing spar) (\* Means net increase)

**Class I:**

101. Engine cowl	21 lbs.	(-45)
102. Manifold and preheater	18 lbs.	(-52)
103. Propeller - wood	30 lbs.	(-67)
104. Starter (Eclipse Y-150)	20 lbs.	(-40)
105. Battery (Reading 6ARL9)	29 lbs.	(-38)
107. Cabin heater-ventilator		
108. Wheel streamlines	10 lbs.	(-11)
109. (a) 18x8-3 wheels (Goodyear 3LMBA or 3LMBM)	14 lbs.	(-15)
(b) 18x8-3 tires (Goodyear 4-ply HD) (wheels must be placarded for these tires)	21 lbs.	(-15)
(c) Shock struts (Aerol AO-2)	20 lbs.	(-9)
110. 8 inch streamline tail wheel	3 lbs.	(+189)
111. Left elevator trailing edge tab, manually operated		
112. Center section flap, manually operated (Drawing No. C-2090)		

**Class II:**

201. Generator		
(a) Hodges H-12-V	8 lbs.	(-24)
(b) Bosch LE70/12R5	11 lbs.	(-45)
202. Parachute (rear passenger)	20 lbs.	(+31)
204. Landing lights (Grimes ST-250)	8 lbs.	(+15)
205. Flares (Inter. MEII Model 1-3)	13 lbs.	(+35)

**Class III:**

301. Parachutes (pilot and front passenger)	40 lbs.	(+4)
302. Center section flap, manually operated (Drawing No. C-2090A)	20 lbs.*	(+1)
303. Battery (Exide 6TS-7-1) with box	29 lbs.	(-36)

**NOTE A.** Each aircraft manufactured after 11/20/40 must, prior to original certification, satisfactorily pass:

- An inspection for workmanship, materials and conformity before any covering, metal priming or final finish is applied. All woodwork may be varnished.
- A final inspection of the completed aircraft.
- A check of the flight characteristics.

**NOTE 1.** Eligible for export as follows subject to inspection for equipment specified in Chapter XII of Inspection Handbook:

- Canada
  - Landplane - eligible
  - Skiplane - not eligible.
- All other countries except Great Britain, Australia and New Zealand.

**NOTE 2.** Baggage in compartment rear of cabin must be limited to zero when passenger occupies rear seat and it must be so placarded. Maximum baggage must be determined by C.G. check, not to exceed 190 lbs. in any case.