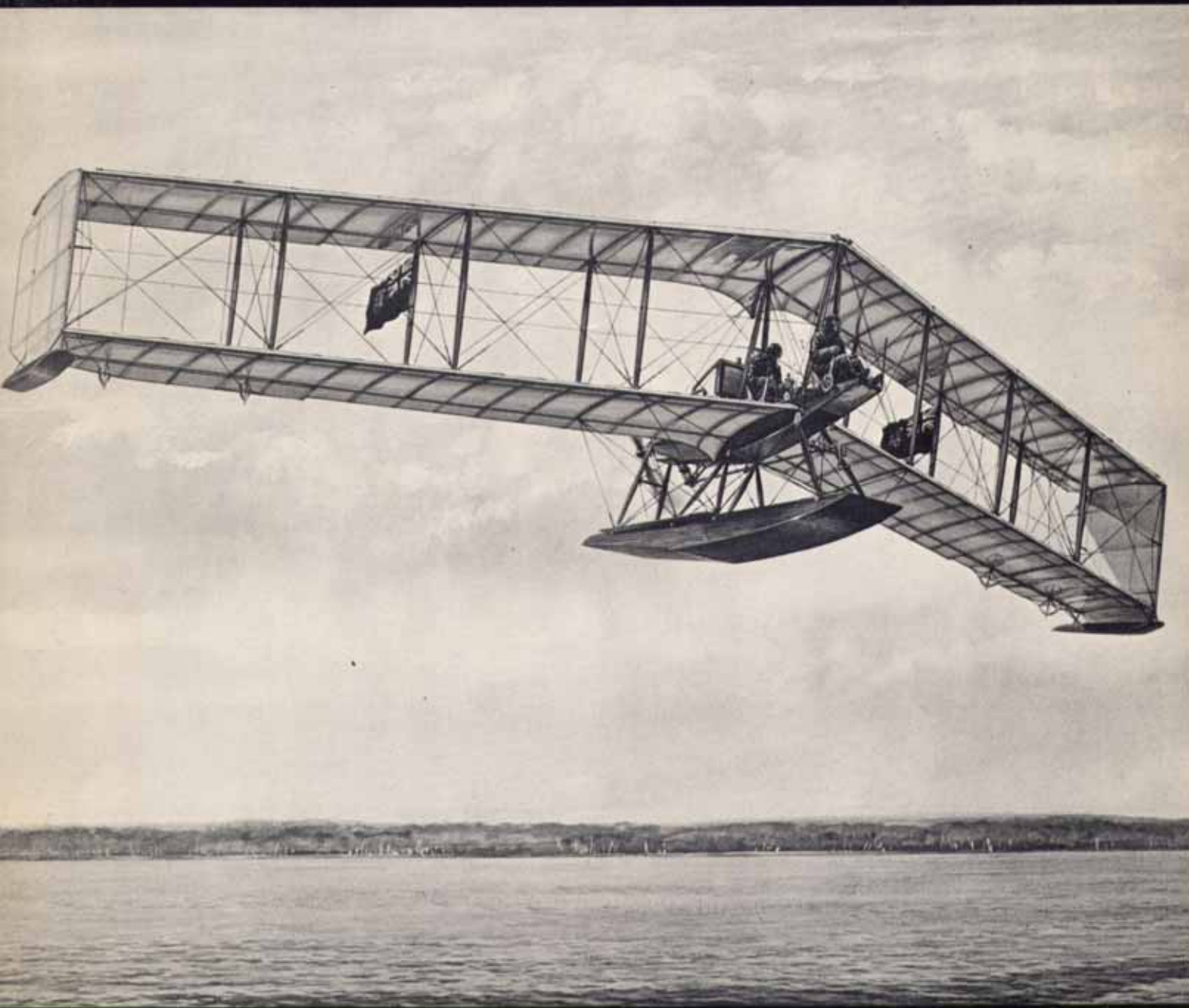


The *CAHS* Journal



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VOL.12 NO.2 SUMMER 74



BURGESS-DUNNE

Painting by R.W. BRADFORD

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This JOURNAL is the official publication of the Canadian Aviation Historical Society. All articles published with authors' names are the opinions of the authors and do not necessarily reflect the policy of the CAHS. All work on this publication is voluntary and no payment can be made for published material.

Members wishing to submit or undertake articles are requested to contact the Editor at his address given left. All manuscripts for JOURNAL publication should be typed (if possible), double-spaced, using one side of each sheet only. All material will be returned to owners immediately upon its appearance in the JOURNAL.

Membership in the CAHS is for one full calendar year commencing 1st January. A member joining at any time in the year up to 31st December will receive all quarterly JOURNALS for the calendar year in which he joins. Annual membership fees of \$7.00 will be due for renewal on 1st January of each year.

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- 1 Radome
- 2 Radar antenna
- 3 Dual control column
- 4 Forward spherical pressure-dome
- 5 Electrically anti-iced laminated windscreen
- 6 Anti-dazzle shroud
- 7 Engine control pedestal
- 8 Co-pilot's seat
- 9 Pilot's seat
- 10 Pilot's and co-pilot's instrument panel
- 11 Systems operator's position
- 12 Radio operator/Navigator's position
- 13 Ditching hatch (26" x 19") hinged inward
- 14 Periscopic sextant
- 15 Junction box
- 16 Two 5-man dinghies and coat stowage
- 17 Forward cargo door (75" high x 93" wide)
- 18 Forward cargo door seal
- 19 Crew's forward entrance door
- 20 V.H.F., V. O.R. antenna
- 21 Main forward distribution air-conditioning ducts
- 22 Forward individual cold air system
- 23 Jet pipe doors
- 24 Four emergency ground exits (19" x 26")
- 25 No. 6 auxiliary cell-type fuel tank (1,640 Imp. gal. usable fuel)
- 26 Flap actuator
- 27 Water tank
- 28 Replaceable plywood paneled floor
- 29 Cargo tie down fittings for net installation
- 30 Cargo tie down rails
- 31 Swinging tail hinge
- 32 Aft pressure bulkhead
- 33 Leading edge anti-icing duct from combustion heater
- 34 Elevator control tab variable ratio screw-jack
- 35 Thermal anti-iced leading edge
- 36 Elevator servo tab mechanism
- 37 Rudder control tab variable ratio screw-jack
- 38 Rudder servo tab mechanism
- 39 Dielectric section
- 40 Anti-icing and combustion air intake
- 41 Combustion heater
- 42 Vertical stabilizer attachment points
- 43 Aft entrance door
- 44 Swinging tail hydraulically operated actuator
- 45 Tail joint mechanical locks
- 46 Rear baggage stowage compartment

LEADING DIMENSIONS

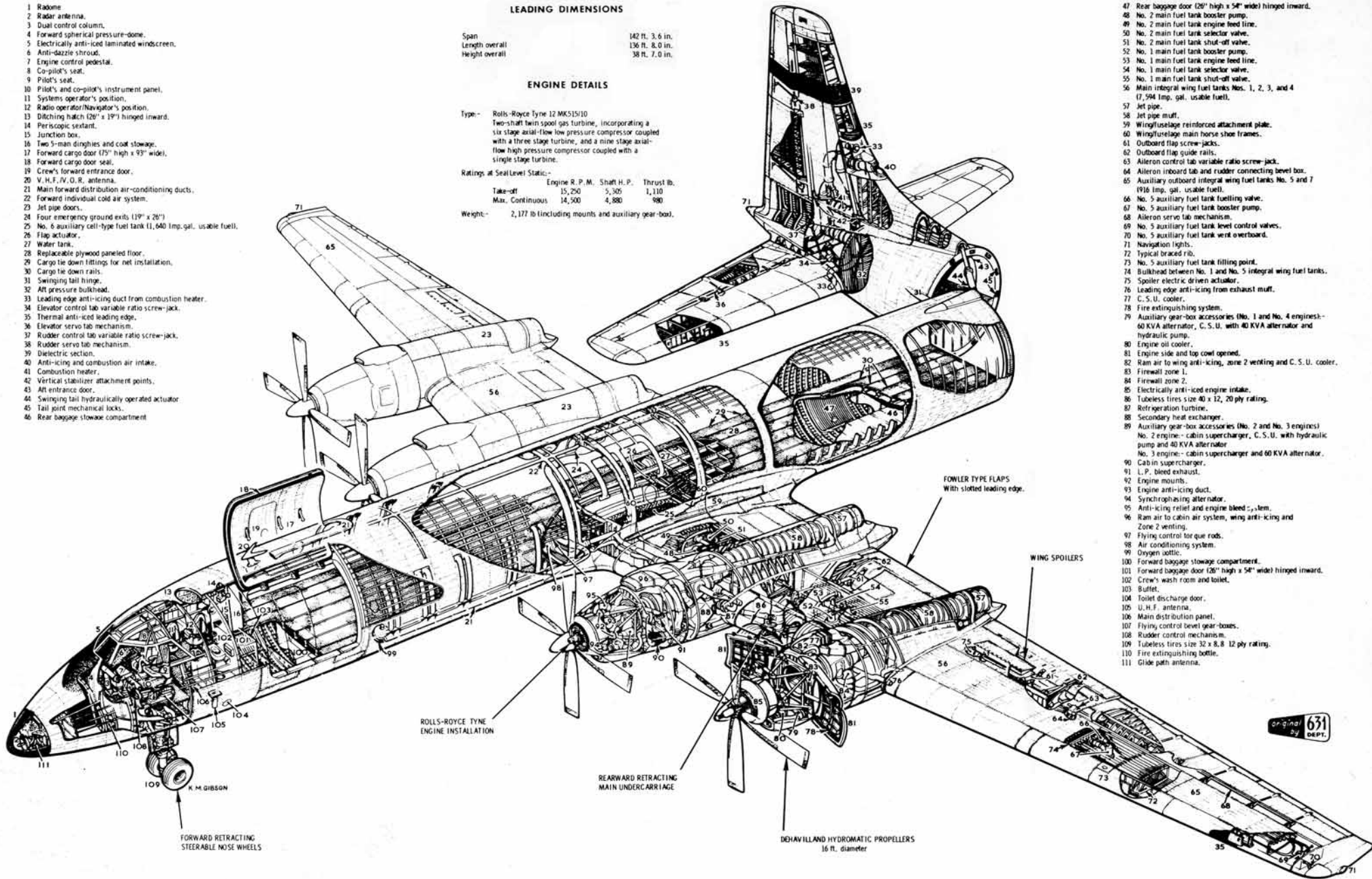
| | |
|----------------|-----------------|
| Span | 142 ft. 3.6 in. |
| Length overall | 136 ft. 8.0 in. |
| Height overall | 38 ft. 7.0 in. |

ENGINE DETAILS

Type:-- Rolls-Royce Tyne 12 MK51510
Two-shaft twin spool gas turbine, incorporating a six stage axial-flow low pressure compressor coupled with a three stage turbine, and a nine stage axial-flow high pressure compressor coupled with a single stage turbine.

| Ratings at Seal Level Static: | Engine R. P. M. | Shaft H. P. | Thrust lb. |
|-------------------------------|-----------------|-------------|------------|
| Take-off | 15,250 | 5,305 | 1,110 |
| Max. Continuous | 14,500 | 4,880 | 980 |

Weight:-- 2,177 lb (including mounts and auxiliary gear-box).



- 47 Rear baggage door (26" high x 54" wide) hinged inward.
- 48 No. 2 main fuel tank booster pump.
- 49 No. 2 main fuel tank engine feed line.
- 50 No. 2 main fuel tank selector valve.
- 51 No. 2 main fuel tank shut-off valve.
- 52 No. 1 main fuel tank booster pump.
- 53 No. 1 main fuel tank engine feed line.
- 54 No. 1 main fuel tank selector valve.
- 55 No. 1 main fuel tank shut-off valve.
- 56 Main integral wing fuel tanks Nos. 1, 2, 3, and 4
17,594 Imp. gal. usable fuel.
- 57 Jet pipe
- 58 Jet pipe muff.
- 59 Wing/fuselage reinforced attachment plate.
- 60 Wing/fuselage main horse shoe frames.
- 61 Outboard flap screw-jacks.
- 62 Outboard flap guide rails.
- 63 Aileron control tab variable ratio screw-jack.
- 64 Aileron inboard tab and rudder connecting box.
- 65 Auxiliary outboard integral wing fuel tanks No. 5 and 7
(916 Imp. gal. usable fuel).
- 66 No. 5 auxiliary fuel tank fuelling valve.
- 67 No. 5 auxiliary fuel tank booster pump.
- 68 Aileron servo tab mechanism.
- 69 No. 5 auxiliary fuel tank level control valves.
- 70 No. 5 auxiliary fuel tank vent outboard.
- 71 Navigation lights.
- 72 Typical braced rib.
- 73 No. 5 auxiliary fuel tank filling point.
- 74 Bulkhead between No. 1 and No. 5 integral wing fuel tanks.
- 75 Spoiler electric driven actuator.
- 76 Leading edge anti-icing from exhaust muff.
- 77 C. S. U. cooler.
- 78 Fire extinguishing system.
- 79 Auxiliary gear-box accessories (No. 1 and No. 4 engines)-
60 KVA alternator, C. S. U. with 40 KVA alternator and hydraulic pump.
- 80 Engine oil cooler.
- 81 Engine side and top cow opening.
- 82 Ram air for wing anti-icing, zone 2 venting and C. S. U. cooler.
- 83 Firewall zone 1.
- 84 Firewall zone 2.
- 85 Electrically anti-iced engine intake.
- 86 Tubeless tires size 40 x 12, 20 ply rating.
- 87 Refrigeration turbine.
- 88 Secondary heat exchanger.
- 89 Auxiliary gear-box accessories (No. 2 and No. 3 engines)
No. 2 engine: cabin supercharger, C. S. U. with hydraulic pump and 40 KVA alternator
No. 3 engine: cabin supercharger and 60 KVA alternator.
- 90 Cabin supercharger.
- 91 L. P. bleed exhaust.
- 92 Engine mounts.
- 93 Engine anti-icing duct.
- 94 Synchrophasing alternator.
- 95 Anti-icing relief and engine bleed system.
- 96 Ram air to cabin air system, wing anti-icing and Zone 2 venting.
- 97 Flying control torque rods.
- 98 Air conditioning system.
- 99 Oxygen jettie.
- 100 Forward baggage stowage compartment.
- 101 Forward baggage door (26" high x 54" wide) hinged inward.
- 102 Crew's wash room and toilet.
- 103 Buffet.
- 104 Toilet discharge door.
- 105 U. H. F. antenna.
- 106 Main distribution panel.
- 107 Flying control beam gear-boxes.
- 108 Rudder control mechanism.
- 109 Tubeless tires size 32 x 8.8 12 ply rating.
- 110 Fire extinguishing bottle.
- 111 Glide path antenna.

original by 631 DEPT.

CANADAIR CL-44D4 DRAWN BY K.M. GIBSON for CANADAIR
Submitted by D.W. Godfrey