

LEADING PARTICULARS

NAME HUNTER T MK.8 B
 TYPE TWO-SEAT, SINGLE ENGINE, MID-WING
 LAND-BASED MONOPLANE
 DUTY TRAINER

MAIN DIMENSIONS

Refer to the general arrangement illustration

MAIN PLANES

Aerofoil section. Hawker High Speed 8½% thick at 37.5% of chord
Mean chord 10.2 ft.
Aspect ratio 3.25
Incidence + 1 deg. 30 min.
Dihedral - 1 deg.
Angle of sweepback at 25% chord 39.9 deg.

TAIL PLANE

Aerofoil section Hawker symmetrical t/c 0.08
 (max. thickness at 34% of chord)
Mean chord 4.55 ft.
Incidence Variable
Dihedral Nil
Angle of sweepback at 25% chord 41.9 deg.

AREAS

Wings, with ailerons and flaps - gross 349 sq.ft.
Ailerons, net total 26.52 sq.ft.
Flaps, landing, gross 31.2 sq.ft.
Tail plane, with elevators, gross 53.9 sq.ft.
Elevators, gross 16.3 sq.ft.
Fin, with rudder and tab - gross 35.0 sq.ft.
Rudder with tab 6.1 sq.ft.
Rudder, tab 0.4 sq.ft.

RANGE OF MOVEMENT AND SETTING OF CONTROL SURFACES

Refer to Sect.3, Chap.4

ALIGHTING GEAR

MAIN UNDERCARRIAGE

Type Two cantilever units, retracting inward
Track 14.75 ft.

Shock-absorber struts

Type Dowty liquid-spring (Part No.E.7950
 P. & S. Mk.E.)

Fluid used OM-15

◀ *Pressure* Refer to Servicing Schedule ▶

Wheels

Type Dunlop A.H.50701

Tyres Dunlop (29 in. x 6.25 in. - 16 in. Ref.No.27A/3913)

Inflation Pressure Refer to Servicing Schedule

Brakes

Types Dunlop hydraulic A.H.50247 and 8

Working pressure 1500 lb. per sq.in.

NOSE UNDERCARRIAGE

Type One cantilever unit, retracting forward

Shock-absorber unit

Type Dowty liquid-spring (Part No. A.7878Y)

Fluid used OM-15

◀ *Pressure* Refer to Servicing Schedule ▶

Wheel

Type Dunlop A.H.9336
Type Dunlop (19 in. x 6.25 in. - 9 in.)
Code D.R.2266
Tube Dunlop Code D.T.2200
Inflation pressure Refer to Servicing Schedule

ENGINE

Name Avon Mk.122
Type Straight-flow, turbo-jet
Starter
Type B.T.H. T.B.S. 720 Mk.1
Cartridges Cordite, 720 Gramme Type No.10 Mk.1
(Ref.No.12D/1204)

Safety device Relief valve to each breech

Accessories gear box and drive

Type Roto1 A.D.E.171

Fuel

Specification Avtur 100 (Stores Ref.34A/100449)

Fuel tank capacities

Front tanks

Port 101 gal

Starboard 101 gal

Centre tanks

Port 37 gal

Starboard 35 gal

Wing tanks

Port (4 tanks) 70 gal

Starboard (4 tanks) 70 gal

Total internal fuel capacity 414 gal

Drop tanks (two) each 100 gal

Oil

Engine

Specification OX-38

Quantity (carried in engine sump) 17 pints approx.

Accessories gear box

Specification OX-38

Capacity 2.5 pints approx.

HYDRAULIC SYSTEM

Type High pressure
Components Dowty
Services operated Alighting gear, wheel brakes,
landing flaps, cabin hood, air
brake and power-operated
controls.

Pump Dowty Part No. A.8003Y/RH/3000
(Ref.No.37J/8000)

Fluid OM-15

Accumulator inflation pressures

Aileron 900 lb. per sq.in.

Elevator 1575 lb. per sq.in.

Cabin hood 1575 lb. per sq.in.

Wheel brakes 750 lb. per sq.in.

Emergency air bottle pressures

Alighting gear and flaps 2000 lb. per sq.in.

Relief valve blow-off pressures

Hand pump 2800 + 100 lb. per sq.in.
- 0

Flap synchronizing circuit 2350 ± 50 lb. per sq.in.

Flaps 3050 ± 50 lb. per sq.in.

Airbrake 3400 ± 50 lb. per sq.in.

Thermal relief valves 4000 to 4150 lb. per sq.in.

Damper charging pressure

Arresting hook damper 1000 lb. per sq.in.

ELECTRICAL SYSTEM

Voltage 28 volts nominal

Generators (2) Type 515A (Ref.No.5UA/5273)

Voltage regulators (2) Type 94 (Ref.No.5UC/5937)

Cut-out units (2) Differential Type A Mk.2,
(Ref.No.5CY/4211)

Batteries (2) Type J, 24 volt, 25 amp. (Ref.No.5J/3336)

RESTRICTED

► ◀
WIRELESS

U.H.F. (Main) T.R.5/A.R.C.52	...	...	...	...	A.R.I.18124/1
U.H.F. (Standby) Type M.4 or M.6	...	...	...	...	A.R.I.23057
Telebriefing	...	...	...	...	A.R.I.18012
Intercommunication amplifier	...	...	...	...	A.1961

► ◀
RADAR (MK.8B aircraft)

◀ TACAN	...	...	...	...	...	A.R.I.18107/2
						or /10
I.F.F./S.S.R. (post Mod.1371)	...	...	...	...	...	A.R.I.23134/3 ▶

ANTI-'G' SYSTEM

Air bottles (4)	...	...	...	...	Dunlop ACM/16782
Capacity	...	...	...	...	106 or 110 cu.in. each
Anti-'G' valves	...	...	...	...	Hymatic Type A.G.2 (Ref.No.27VB/3254)
Pressure reducing valves	...	...	...	...	Palmer Type C.58 & 58B (Ref.No.6D/1602 & 6D/)
Selector valve	...	...	...	...	Hymatic Type SV.9 (Ref.No.27VB/3441)
Charging pressure (in situ)	...	...	...	...	2000 lb. per sq.in.

OXYGEN SYSTEM

Cylinders (4)	...	...	...	...	Mk.5D with Mk.7 five-way piece (Ref.No.6D/9429896)
Capacity	...	...	...	...	750 litres each
Pressure reducing valve	...	...	...	...	Mk.1 (Ref.No.6D/1616)
Regulators (2)	...	...	...	...	Mk.17E (Ref.No.6D/2294)
Charging pressure (in situ)	...	...	...	...	1800 lb. per sq.in.

AIR CONDITIONING SYSTEM

Cold air unit	...	...	...	A.C.R.E.9 Mk.8W (Ref.No.27UA/380)
Oil...	...	...	...	OX-38
Pre-cooler	...	...	...	Marston-Excelsior D.11 9-7A or D.1137/3A
Inter-cooler	...	...	...	Marston-Excelsior D.119-7A or D.1137/3A

FIRE PROTECTION SYSTEM

◀ Extinguisher bottle	...	...	Mk.13A (Ref.No.27N/99) or Type 5AX
Flame switches	...	...	Mk.4 No.HS/RS.300 (Ref.No.27N/91) or 150D/01/300 (Ref.No.27B/340) ▶

SEATS

Ejection type			
Port	...	...	Martin Baker Mk.4H/1 (Ref.No.27L/50065)
Starboard	...	...	Martin Baker Mk.4H/2 (Ref.No.27L/50066)

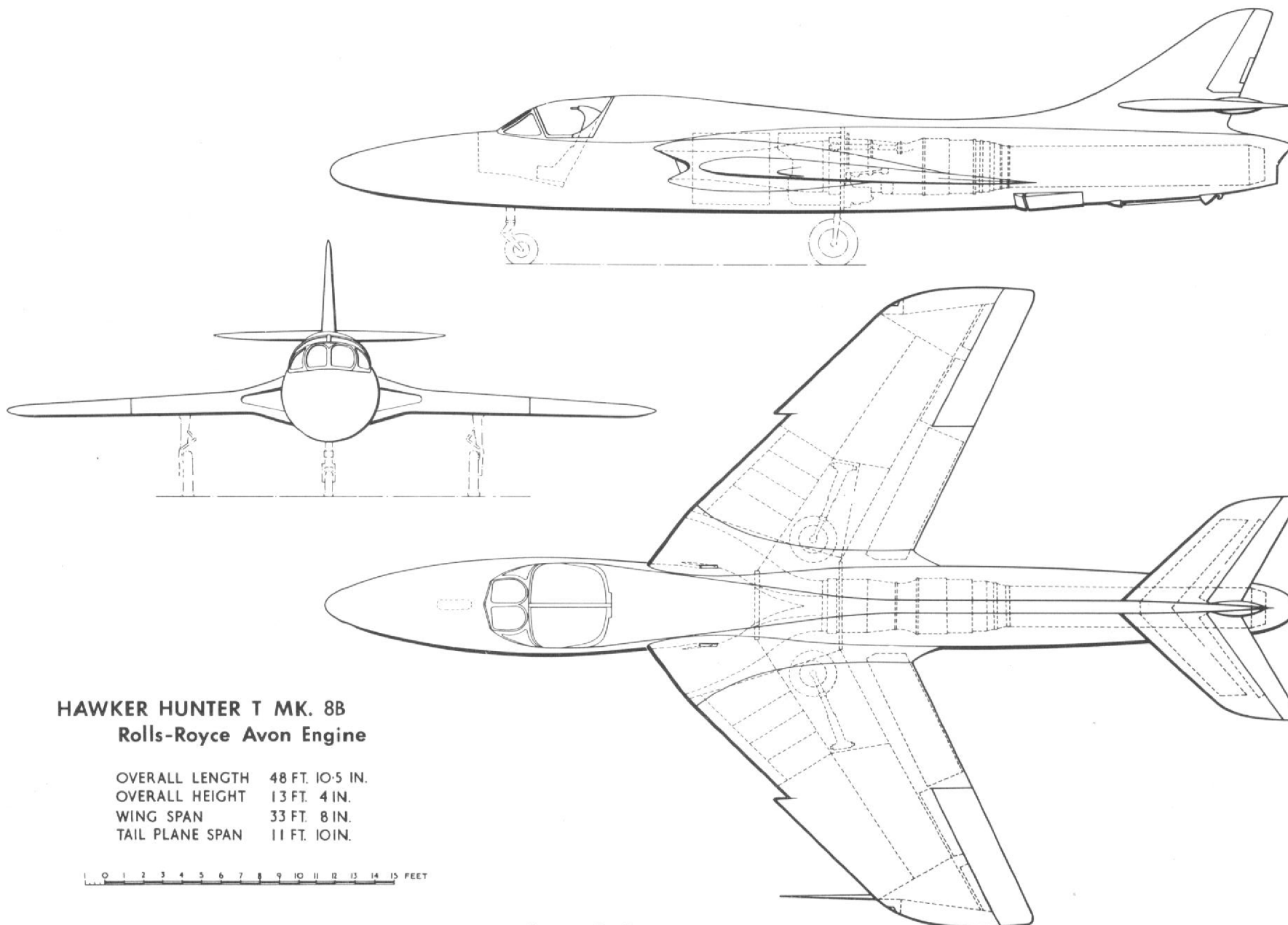
ARMAMENT

◀ Guns

(Not applicable) ▶

Inboard pylon				
Number	...	...	...	One under each wing
Outboard pylon				
Number	...	...	...	One under each wing

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HAWKER HUNTER T MK. 8B
Rolls-Royce Avon Engine

OVERALL LENGTH 48 FT. 10.5 IN.
OVERALL HEIGHT 13 FT. 4 IN.
WING SPAN 33 FT. 8 IN.
TAIL PLANE SPAN 11 FT. 10 IN.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 FEET

General Arrangement

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T.P. (E) 22842

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