

LEADING PARTICULARS

NAME ... HUNTER T MK. 8, 8B & 8C
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 0.085 t/c at 37.5% of chord
Mean chord ... 10.2 ft.
Aspect ratio ... 3.33
Incidence ... +1 deg. 30 min.
Dihedral ... -1 deg.
Angle of sweepback at 25% of chord ... 39.9 deg.

TAIL PLANE

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

MAIN UNDERCARRIAGE

Type ... Two cantilever units, retracting inward
Track ... 14.75 ft.

Shock-absorber struts

Type ... Dowty liquid-spring
Fluid used ... OM-15
Pressure ... Refer to A.P.104 series

Wheels

Type ... Dunlop A.H.50701, A.H.51338 or A.H.50207
Tyres ... Dunlop 29 in x 6.25 in x 16 in, Code D.T.1821
Tubes ... Dunlop (Ref. No. 27A/3921)
Inflation pressure ... Refer to Servicing Schedule

Brakes

Type ... Dunlop hydraulic A.H.50247 and 8
Working pressure ... 1 500 lb/in²

NOSE UNDERCARRIAGE

Type ... One cantilever unit, retracting forward

Shock-absorber unit

Type ... Dowty liquid-spring
Fluid used ... OM-15
Pressure ... Refer to A.P.104 series

Wheel

Type ... Dunlop A.H.9336

LEADING PARTICULARS – Contd.

Tyre	Dunlop 19in x 6.25in x 9in, 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. 2
Cartridges		Cordite 720 gramme Type No. 10 Mk. 3
Safety device		Relief valve to each breech
Accessories gearbox and drives		
Gearbox ...		Rotal Type TG5/8
Drive (front)		Type GD9/44

FUEL DATA

<i>UK Joint Service designation</i>	<i>NATO Code No.</i>	<i>D Eng RD Spec.</i>	
APPROVED FUELS			
<i>Avtur/FSII</i>	<i>F-34</i>	<i>2453</i>	<i>See column 'A'</i>
<i>Avtag/FSII</i>	<i>F-40</i>	<i>2454</i>	<i>See column 'B'</i>

NOTE...

- (1) When obtained from RAF sources both fuels contain AL-38 [99% FSII (AL-31) and 1% Hitec E515 (lubricity agent)].
- (2) When obtained from non-RAF sources both fuels contain FSII but not Hitec E515.

<i>Avtur</i>	<i>F-35</i>	2494	<i>See column 'A'</i>
<i>Avcat</i>	<i>F-44</i>	2498	<i>See column 'A'</i>

Neither of these fuels contain FSII or Hitec E515.

F-42

French equivalent to F-44. Contains FSII but not Hitec E515.

		'A' (8 lb. per gal.)	'B' (7.7 lb per gal.)
Fuel tank capacities <i>(with no drop tanks fitted)</i>	GAL.	LB.	LB.
<i>Front tanks</i>	202	1616	1555.4
<i>Centre tanks</i>	72	576	554.4
<i>Wing tanks</i>	140	1120	1078
Total internal capacity	414	3312	3187.8
Fuel tank capacities <i>(with 2 inboard drop tanks fitted)</i>			
<i>Front tanks</i>	202	1616	1555.4
<i>Centre Tanks</i>	72	576	554.4
<i>Wing tanks</i>	146	1168	1124.2
Total internal capacity	420	3360	3234.0

		'A' (8 lb. per gal.)	'B' (7.7 lb. per gal.)
Fuel tank capacities	GAL.	LB.	LB.
<i>(with 4 drop tanks fitted)</i>			
<i>Front tanks</i>	202	1616	1555.4
<i>Centre tanks</i>	72	576	554.4
<i>Wing tanks</i>	150	1200	1155.0
<i>Total internal capacity</i>	424	3392	3264.8
Drop tank capacities			
<i>100 gal. on inboard pylon</i>	100	800	770
<i>100 gal. on outboard pylon</i>	99	792	762.3

Fuel filter de-icing

<i>Pump</i>	...	...	...	...	...	...	...	F.P.3 Mk. 9
<i>Tank capacity</i>	...	...	...	...	...	...	...	1 gallon
<i>Fluid</i>	...	...	...	...	...	...	...	AL-8
<i>Oil</i>								
<i>Engine</i>								
<i>Specification</i>	...	...	...	...	...	...	...	OX-38
<i>Quantity (carried in engine sump)</i>	...	...	...	...	...	...	...	17 pints approx.
<i>Accessories gearbox</i>								
<i>Specification</i>	...	...	...	...	...	...	...	OX-38
<i>Capacity</i>	...	...	...	...	...	...	...	2.5 pints
<i>Cold air unit</i>								
<i>Specification</i>	...	...	...	...	...	...	...	OX-38

HYDRAULIC SYSTEM

Type ...	...	...	...	...	...	...	High pressure, live-line
Components	...	...	...	...	...	...	Dowty
Services operated	...	Alighting gear, wheel-brakes, landing flaps, cabin hood, air brakes, power-assisted controls and windscreen wipers					
Pump ...	...	...	...	...	...	...	Dowty
Fluid ...	...	...	...	...	...	...	OM-15
Accumulator inflation pressures							
Aileron	...	...	...	...	...	(Pre Mod. 690)	1575 lbf/in ²
						(Post Mod. 690)	900 lbf/in ²
Elevator	...	...	...	...	...	...	1575 lbf/in ²
Wheel brakes	...	...	...	...	...	...	750 lbf/in ²
Hood	...	...	...	...	...	...	1575 lbf/in ²
Emergency air bottle pressures							
Alighting gear and flaps							2000 lbf/in ²
Relief valve blow-off pressures							
Hand pump	...	...	...	...	...	2800	+ 100 - 0 lbf/in ²
Flaps	...	...	...	...	...	3000	+ 50 - 0 lbf/in ²
Air brake	...	...	...	...	...	3400	+ 50 - 0 lbf/in ²
Thermal relief valves	...	...	...	...	...	4000 to 4150 and 3100	to 3250 lbf/in ²
Pressure regulator valves (flaps, u/c and air brake)	...	...	...	...	...	...	1100 lbf/in ²
Arrester hook							
Damper charging pressure (hook extended)	...	...	...	...	...	...	1000 lbf/in ²

LEADING PARTICULARS — Contd.

ELECTRICAL SYSTEM

Voltage	...	...	...	...	...	...	...	24 volts nominal
Generators (2)	...	...	...	...	...	...	...	Type 515A
Voltage regulators (2)	...	...	...	...	...	...	...	Type 94
Out-out units (2)	...	...	...	...	...	...	...	Differential, Type A, Mk. 2
Batteries (Mk. 8 aircraft)	...	...	...	...	...	...	...	Type J, 24 volt, 25 amp.
Batteries (Mk. 8B & 8C aircraft)	...	...	...	...	...	...	...	Type 24, 15/35ED 24 volt, 27 amp. (1 hr. rate)

RADIO

(Mk. 8 aircraft)								
UHF (main) TR.5/ARC 52	...	...	...	...	...	...	...	(ARI 18124/1)
UHF (standby) type M.4 or M.6	...	...	...	...	...	...	...	(ARI 23057)
Tele-briefing	...	...	...	...	...	...	...	(ARI 18012)
Intercommunication amplifier	...	...	...	...	...	...	...	(A 1961)
ZBX	...	...	...	...	...	...	...	(ARI 5307)
(Mk. 8B aircraft)								
UHF (main) TR.5/ARC 52 (Pre-Mod 1484)	...	...	...	...	...	...	...	(ARI 18124/1)
V/UHF (main) PTR1751 (Mod 1484)	...	...	...	...	...	...	...	(ARI 23300/80)
UHF (standby) type M.4 or M.6	...	...	...	...	...	...	...	(ARI 23057)
Tele-briefing	...	...	...	...	...	...	...	(ARI 18012)
Intercommunication amplifier	...	...	...	...	...	...	...	(A 1961)
(Mk. 8C aircraft)								
VHF, AD 120 (Mod 1430)	...	...	...	...	...	...	...	(ARI 23288)
UHF (main) TR.5/ARC 52 (Pre-Mod 1481)	...	...	...	...	...	...	...	(ARI 18124/1)
V/UHF (main) PTR1751 (Mod 1481)	...	...	...	...	...	...	...	(ARI 23300/80)
UHF (standby) type M.4 or M.6	...	...	...	...	...	...	...	(ARI 23057)
Tele-briefing	...	...	...	...	...	...	...	(ARI 18012)
Intercommunication amplifier	...	...	...	...	...	...	...	(A 1961)

RADAR

(Mk. 8 aircraft)								
Radar ranging	...	...	...	...	...	...	...	(A.R.I.5840)
(Mk. 8B & 8C aircraft)								
Tacan	...	...	...	...	...	...	...	(A.R.I.18107/2 or 10)
(Mk. 8C aircraft)								
Radar altimeter (Mod 1467)	...	...	...	...	...	...	...	(A.R.I. 23232/17)

ANTI-'G' SYSTEM

Air bottles (4)	...	...	...	...	...	...	...	Dunlop ACM/16782
Capacity	...	...	...	...	...	...	...	110 cu. in. each
Anti-'G' valve	...	...	...	...	...	...	...	Hymatic Type AG.2
Pressure reducing valve	...	...	...	...	...	...	...	Palmer Type C.58
Selector valve	...	...	...	...	...	...	...	Hymatic Type SV.9
Charging pressure (in situ)	...	...	...	...	...	...	...	2 000 lbf/in ²

OXYGEN SYSTEM

Cylinders (4)	...	...	...	...	...	...	...	Mk. 5D with Mk. 7 five-way piece
Capacity	...	...	...	...	...	...	...	750 litres each
Pressure reducing valve	...	...	...	...	...	...	...	Mk. 1
Regulator	...	...	...	...	...	...	...	Mk. 17E or Mk. 17F
Charging pressure (in situ)	...	...	...	...	...	...	...	1 800 lbf/in ²

AIR CONDITIONING SYSTEM

Cold air unit	...	...	...	...	...	...	...	A.C.R.E. 9 Mk. 8W
Pre-cooler	...	...	...	...	...	...	...	Marston-Excelsior D-119-7A or D1137-3A
Inter-cooler	...	...	...	...	...	...	...	Marston-Excelsior D-119-7A or D1137-3A

FIRE PROTECTION SYSTEM

Extinguisher bottle	...	...	...	...	...	...	...	Mk. 13A or Type 5AX
Flame switches (12)	...	...	...	...	...	...	...	Mk. 4 No. HS/RS/300
Inertia switches (2)	...	...	...	...	...	...	...	Mk. 1

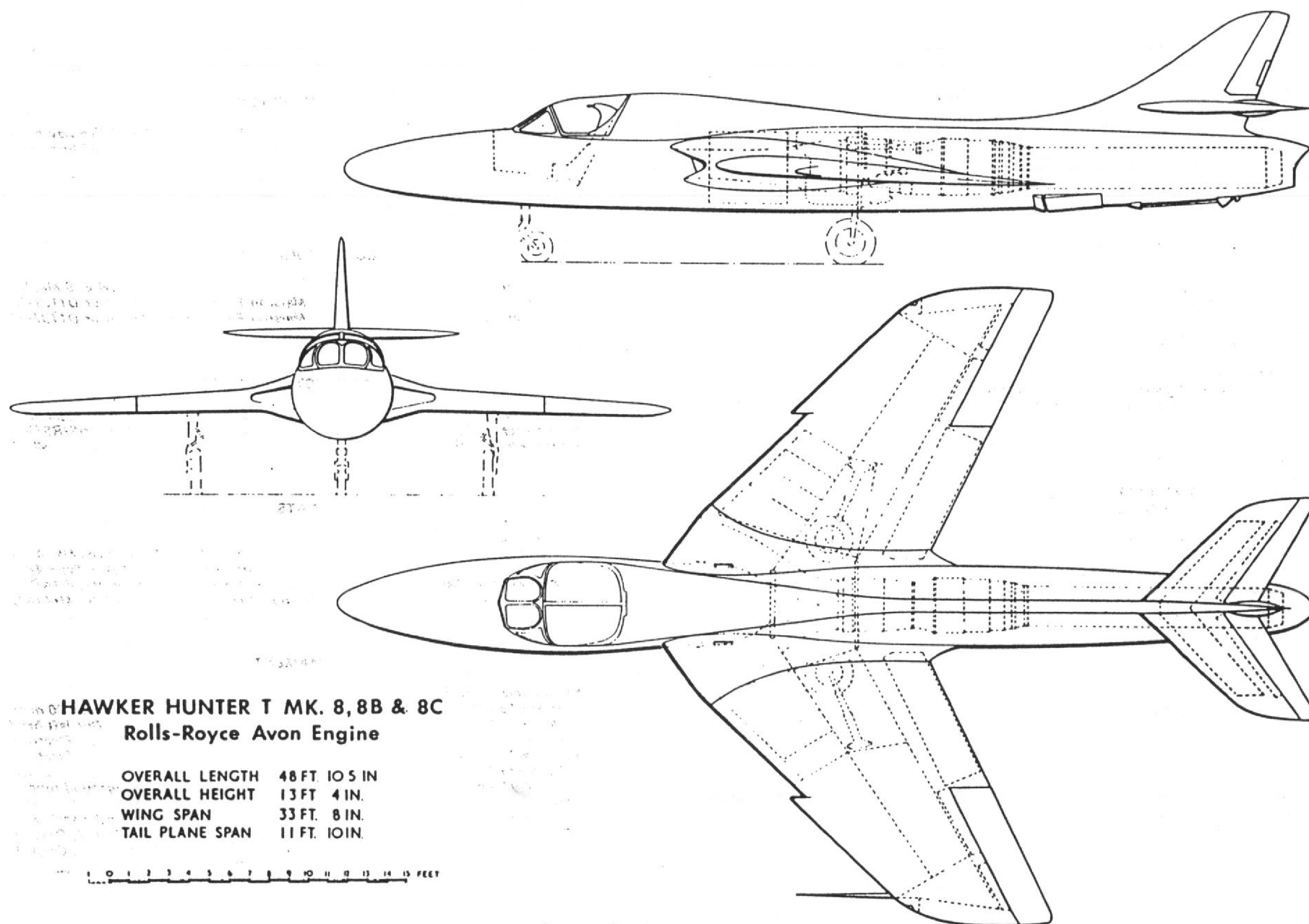
SEATS

Ejection type								
(Pre Mod. 1178)	...	...	...	...	...	...	...	Port Martin Baker Type Mk. 4H/1 Starboard Martin Baker Type 4H/2
(Post Mod. 1178)	...	...	...	...	...	...	...	Port Martin Baker Type Mk. 4HA(N)1 Starboard Martin Baker Type Mk. 4HA(N)2

ARMAMENT

(Mk. 8 aircraft only)								
Type of gun	...	...	...	...	...	...	...	Aden 30 m.m.
Number of guns	...	...	...	...	...	...	...	One left-hand
Control	...	...	...	...	...	...	...	Electrical
Firing mechanisms	...	...	...	...	...	...	...	Electrical
Number of rounds	...	...	...	...	...	...	...	150
Gun cocking	...	...	...	...	...	...	...	Pneumatic (ground supply)
Pylons								
Number	...	...	...	...	...	...	...	Two under each wing (See Sect. 7, Chap. 2)
R.P.	...	...	...	...	...	...	...	
Bombs	...	...	...	...	...	...	...	(See Sect. 7, Chap. 4)

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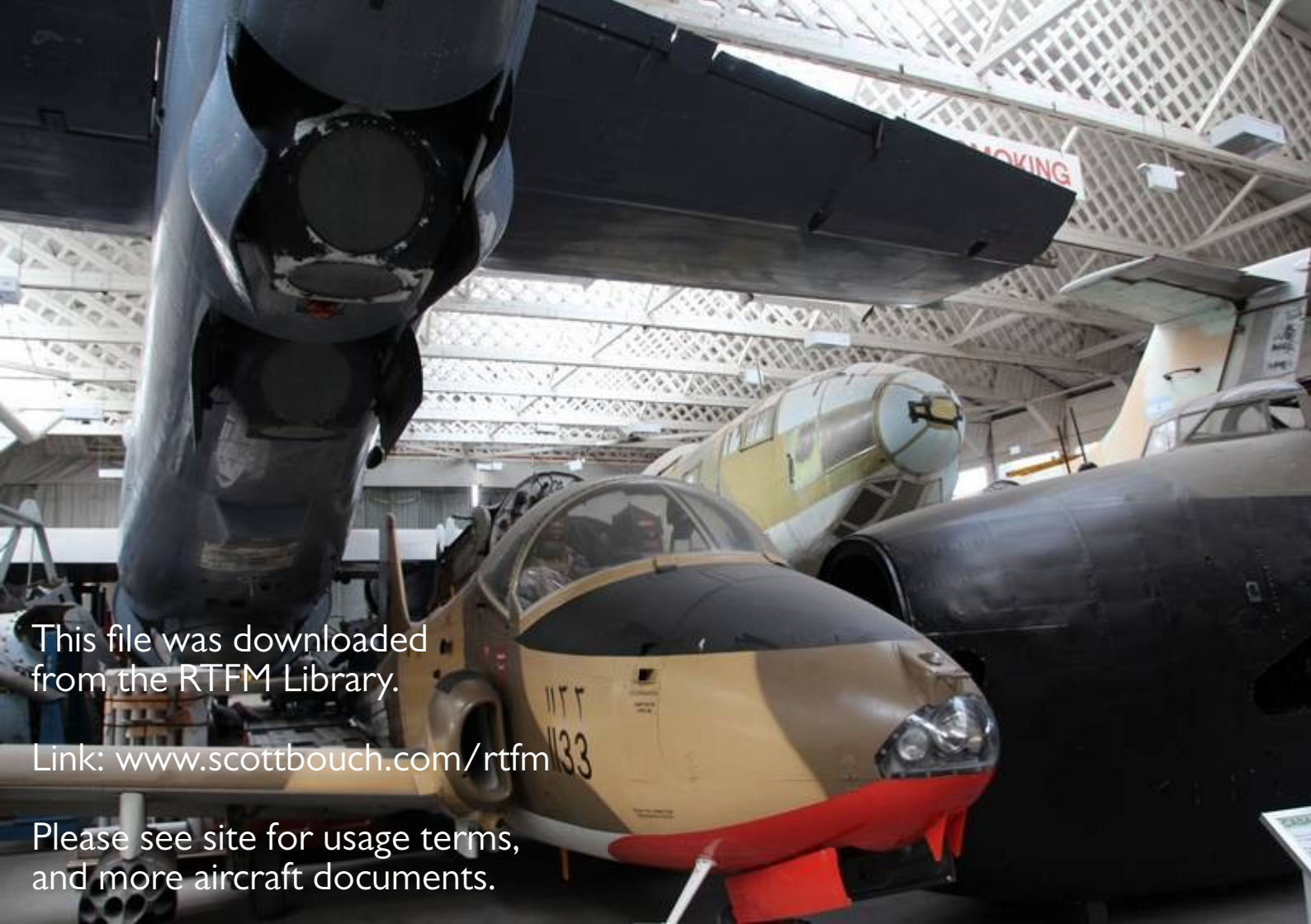
HAWKER HUNTER T MK. 8, 8B & 8C

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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