

RESTRICTED

A.P. 101B-1308-1  
A.L. 141, Oct. 71

## LEADING PARTICULARS

## 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	...	...	...					
Aspect ratio	...	...	...					
Incidence	...	...	...					
Dihedral	...	...	+1 deg. 30 min.					
Angle of sweepback at 25% of chord	...	...	-1 deg.					

## TAIL PLANE

Aerofoil section	...	...	Hawker symmetrical	0.08 t/c at 34% of chord
Mean chord	...	...	...	...
Incidence	...	...	...	...
Dihedral	...	...	...	...
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	...	...	...	...	29.63 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.
<b>Shock-absorber struts</b>					
Type	...	...	Dowty liquid-spring (2.00046.001/.002 or .003/.004)		
Fluid used	...	...	...	OM-15 (Ref. No. 34B/9100572)	
Pressure	...	...	...	Refer to A.P.1803E, Vol. 1, Sect. 2, Chap. 6	

## Wheels

Type ... ... ... Dunlop A.H.50701, A.H.51338 or A.H.50207  
 Tyres ... ... ... Dunlop (Ref. No. 27A/4657)  
 Tubes ... ... ... Dunlop (Ref. No. 27A/3921)  
 Inflation pressure ... ... ... Refer to Servicing Schedule

Brasil

Type ... ... ... ... ... ... Dunlop hydraulic A.H.50247 and 8  
 Working pressure ... ... ... ... ... ... 1 500 lb/in<sup>2</sup>

## NOSE UNDERCARRIAGE

Type ... ... ... ... ... One cantilever unit, retracting forward

### Shock-absorber unit

Type ... Dowty liquid-spring (Part No. A.7878Y, Mk. B or 2.00108.001)  
Fluid used ... ... ... OM-15 (Ref. No. 34B/9100572)  
Pressure ... ... ... Refer to A.P.1803E, Vol. 1, Sect. 6, Chap. 6

Whe

Type ... ... ... ... ... ... ... Dunlop A.H.9336

## RESTRICTED

## LEADING PARTICULARS—Contd.

Tyre ... ... ... Dunlop (19 in.  $\times$  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. 207  
 Type ... ... ... ... Straight flow, turbo-jet  
 Starter  
 Type ... ... ... ... Plessey I.P.N. Liquid Fuel  
 Fuel (starter) ... ... ... AVPIN—N.A.T.O. Code No. S-746  
 (Ref. No. 34A/9423147)  
 Tank capacity ... ... ... ... 2 gallons  
 Accessories gearbox and drives  
 Gearbox ... ... ... ... Rotol Type TG5/5 (Ref. No. 37L/196)  
 Turret (vertical drive arm) ... ... ... Type GA7/2 (Ref. No. 37L/322)  
 Drive (front) ... ... ... Type GD9/37 (Ref. No. 37L/369)  
 Drive (rear) ... ... ... Type GD9/100 (Ref. No. 37L/325)

## APPROVED FUELS

Avtur F.34 (Ref. No. 34A/2201036) 7.9 lb. per gal. See column 'A'  
 Avtag F.40 (Ref. No. 34A/2201037) weight approx.  
 7.7 lb. per gal. See column 'B'

## EMERGENCY SUBSTITUTE FUELS

\*Avtur F.35 (Ref. No. 34A/9431771) weight approx.  
 7.9 lb. per gal. See column 'A'  
 \*Avcat F.44 (Ref. No. 0722/2202148) weight approx.  
 8.2 lb. per gal. See column 'C'

\*These fuels may be used provided that Fuel system icing inhibitor (Spec. D. Eng. R.D.2451) is added in the proportion of 0.10 to 0.15 per cent by volume.

	'A'	'B'	'C'
Fuel tank capacities	GAL	LB.	LB.
(with no external tanks fitted)			
Front tanks	200	1 580	1 540
Rear tanks	52	410.8	400.4
Wing tanks	140	1 106	1 078
Total internal capacity	392	3 096.8	3 018.4
Fuel tank capacities			
(with 2 inboard external tanks fitted)			
Front tanks	202	1 595.8	1 555.4
Rear tanks	52	410.8	400.4
Wing tanks	146	1 153.4	1 124.2
Total internal capacity	400	3 160	3 080

Fuel tank capacities (with 4 external tanks fitted)	Front tanks	Rear tanks	Wing tanks	Total internal capacity
	202	1 595.8	1 555.4	1 656.4
	52	410.8	400.4	426.4
	150	1 185	1 155.0	1 230.0

Total internal capacity 404 3 191.6 3 110.8 3 312.8

External tank capacities	100 gal. on inboard pylon	100 gal. on outboard pylon	230 gal. (without outboard external tanks)	230 gal. (with outboard external tanks)
	100	790	770	820
	99	782.1	762.3	811.8
	233	1 840.7	1 794.1	1 910.6
	239	1 888.1	1 840.3	1 959.8

Note ...

The capacities of the front and rear compartments of 230 gal. tanks post Mod. 1242 are:—

	Front Compartment	Rear Compartment
Without outboard external tanks	178 gal	55 gal.
Without outboard external tanks	182.5 gal.	56.5 gal.

The fuel in the rear compartment is consumed first.

Fuel filter de-icing	Pump	F.P.3 Mk. 9 (Ref. No. 5UE/6294)
	Tank capacity	1 gallon
	Fluid	AL-8 (Ref. No. 34B/9100475)

Oil	
Engine	
Specification	OX-38 (Ref. No. 34A/9100591)
Quantity (carried in engine sump)	... ... 9½ pints approx
Accessories gearbox	
Specification	OX-38 (Ref. No. 34A/9100591)
Capacity	... ... 2.5 pints
Turret (vertical drive arm)	
Specification	OX-38 (Ref. No. 34A/9100591)
Capacity	... ... ¼ pint
Cold air unit	
Specification (4 oz. tube)	OX-38 (Ref. No. 34A/9100591)

## HYDRAULIC SYSTEM

Type	High pressure, live-line
Components	Dowty
Services operated	Alighting gear, wheel brakes, landing flaps, air brakes and power-assisted controls
Pump	Dowty Part No. A.8003Y/RH/3000 (Ref. No. 37J/8000)
Fluid	OM-15 (Ref. No. 34B/9100572)

Accumulator inflation pressures	High pressure, live-line
Aileron	{ (Pre Mod. 690) 1 575 lb/in <sup>2</sup> (Post Mod. 690) 900 lb/in <sup>2</sup>
Elevator	1 575 lb/in <sup>2</sup>
Wheel brakes	750 lb/in <sup>2</sup>

Emergency air bottle pressures	High pressure, live-line
Alighting gear and flaps	2 000 lb/in <sup>2</sup>

21021 — 21824

## LEADING PARTICULARS—Contd.

## Relief valve blow-off pressures

Hand pump	...	...	...	...	...	2 800	+100 -0	lb/in <sup>2</sup>
Flaps	...	...	...	...	...	3 000	+50 -0	lb/in <sup>2</sup>
Air brake	...	...	...	...	...	3 400	+50 -0	lb/in <sup>2</sup>
Thermal relief valves	...	...	...	...	...	4 000 to 4 150 and 3 100 to 3 250	lb/in <sup>2</sup>	
Pressure regulator valves (flaps, u/c and air brake)	...	...	...	...	...	1 100	lb/in <sup>2</sup>	

## ELECTRICAL SYSTEM

Voltage	...	...	...	...	...	28 volts nominal		
Generators (2)	...	...	...	...	...	Type 517 (Ref. No. 5UA/6088)		
Voltage regulators (2)	...	...	...	...	...	Type 94 (Ref. No. 5UC/5937)		
Cut-out units (2)	...	...	Differential, Type A, Mk. 2 (Ref. No. 5C/4211)					
Batteries (2)	...	...	Type J, 24 volt, 25 amp. (Ref. No. 5J/3336)					

## RADIO

U.H.F. (Main)	...	...	A.R.C.52 (Post Mod. 968) (A.R.I.18124/1)					
U.H.F. (Standby)	...	...	...	TR.10056 (A.R.I.23057)				
Telebriefing	...	...	...	...	(A.R.I.18012)			
Voice recorder	...	...	Type 16606, incorporating R.M.C. Mod. 5352					
Radio compass	...	...	...	Marconi sub-miniature (A.R.I.5877)				

## RADAR

I.F.F.	...	...	...	...	Type 4585 (A.R.I.5848)			
--------	-----	-----	-----	-----	------------------------	--	--	--

## ANTI-'G' SYSTEM

Air bottles (2)	...	...	...	...	Dunlop ACM/16782			
Capacity	...	...	...	...	110 cu. in. each			
Anti-'G' valve	...	...	...	...	Hymatic Type AG.2 (Ref. No. 27VB/3254)			
Pressure reducing valve	...	...	...	...	Palmer Type C.58 (Ref. No. 27VC/27)			
Selector valve	...	...	...	...	Hymatic Type SV.9 (Ref. No. 27VB/3441)			
Charging pressure (in situ)	...	...	...	...	2 000 lb/in <sup>2</sup>			

## OXYGEN SYSTEM

Cylinders (3)	...	...	...	Mk. 5D (Ref. No. 6D/9429894)				
Capacity	...	...	...	750 litres each				
Pressure reducing valve	...	...	...	Mk. 1 (Ref. No. 6D/1616)				
Regulator	...	...	...	Mk. 17E (Ref. No. 6D/2294) or				
Charging pressure (in situ)	...	...	...	Mk. 17F (Ref. No. 6D/2671)	1 800 lb/in <sup>2</sup>			

## AIR CONDITIONING SYSTEM

Cold air unit	...	...	...	...	...	...	...	Part No. 120277
Pre-cooler	...	...	...	...	...	...	...	Marston-Excelsior D-119-5A (Modified to A.203406)
Inter-cooler	...	...	...	...	...	...	...	Marston-Excelsior D-119-6A (Modified to A.203407)

## FIRE PROTECTION SYSTEM

Extinguisher bottle (2)	...	...	...	...	Mk. 12A (Ref. No. 27N/100)			
					or Mk. 4AX (Ref. No. 27N/152)			
					Mk. 13A (Ref. No. 27N/99)			
					or Mk. 5AX (Ref. No. 27N/153)			
Flame switches (12) (Pre Mod.960)	...	...	...	...	Mk. 4 No. HS/RS/300			
					(Ref. No. 27N/91)			
Firewire D.C. control unit (1)	...	...	...	...	Graviner Type D3000 (Ref. No. 5CZ/6245)			
					or D3600 (Ref. No. 5CZ/7491)			
					or 165 D(2) (Ref. No. 5CZ/7659)			
Firewire 10 ft. element (8)	...	...	...	...	Graviner Part No. D.2370/120 (Ref. No. 5CZ/5837)			
					Firewire 5 ft. element (1)	...	...	
					(Post Mod.960) ... Graviner Part No. D.2370/60 (Ref. No. 5CZ 5836)			
					Inertia switches (2) ... Mk. 1 (Ref. No. 27N/93)			

## SEAT

Ejection type	...	...	...	...	Martin Baker Mk. 2H or 3H			
---------------	-----	-----	-----	-----	---------------------------	--	--	--

## ARMAMENT

Pre-armed gun package								
Type of guns	...	...	...	...	...	...	...	Aden 30 m.m.
Number of guns	...	...	...	...	...	...	...	Four (two right-hand, two left-hand)
Control	...	...	...	...	...	...	...	Electrical
Firing mechanisms	...	...	...	...	...	...	...	Electrical
Number of rounds per gun	...	...	...	...	...	...	...	150
Total number of rounds	...	...	...	...	...	...	...	600
Gun cocking	...	...	...	...	...	...	...	Pneumatic (ground supply)
Pylons								
Number	...	...	...	...	...	...	...	Two under each wing

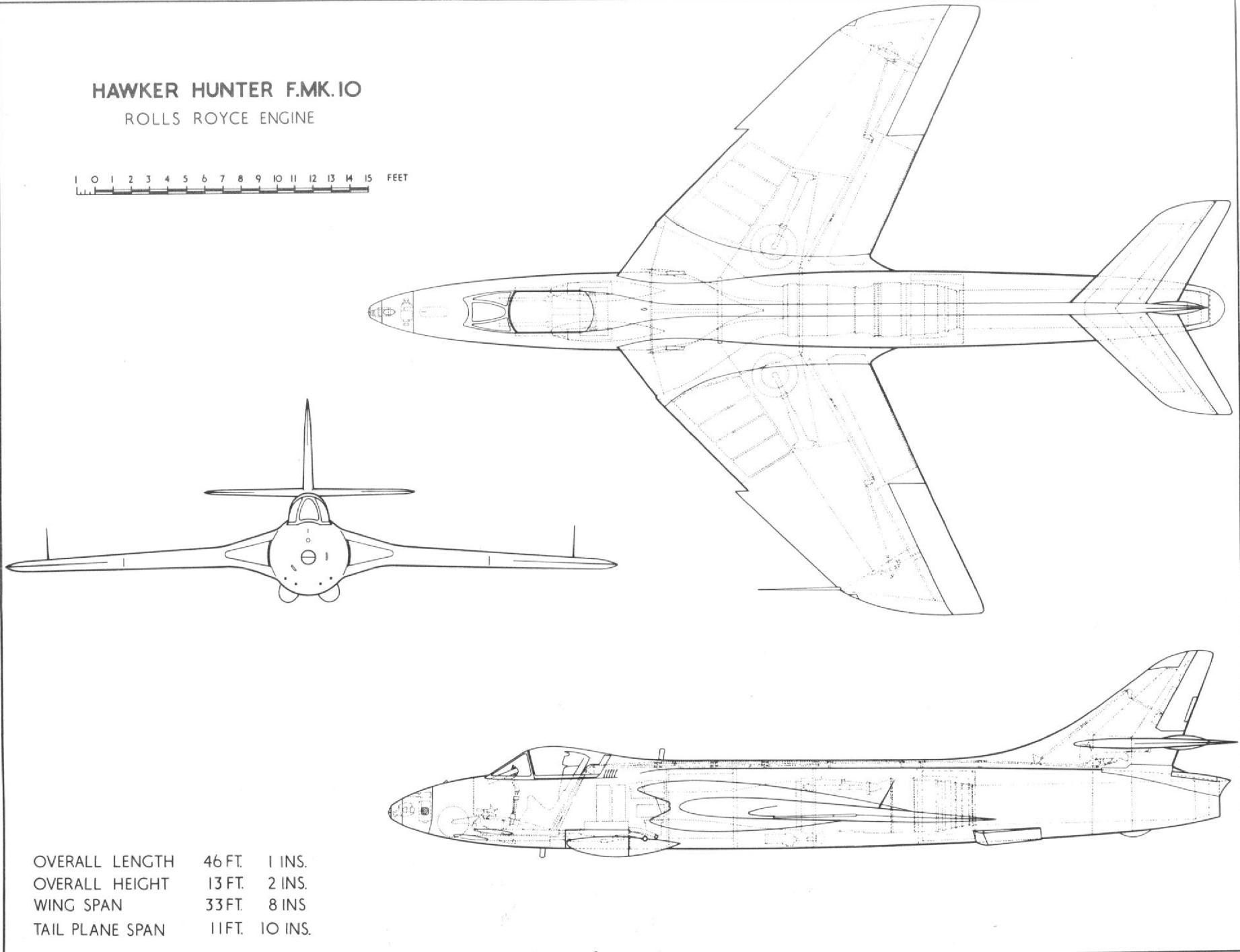
## PHOTOGRAPHIC RECONNAISSANCE SYSTEM

Forward oblique F95 (1) camera	...	...	(Ref. No. 14A/5116 or 14A/4988)
Sideways oblique F95 (2) camera	...	...	(Ref. No. 14A/5116)

# HAWKER HUNTER F.MK.10

ROLLS ROYCE ENGINE

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



OVERALL LENGTH 46 FT. 1 INS.  
OVERALL HEIGHT 13 FT. 2 INS.  
WING SPAN 33 FT. 8 INS  
TAIL PLANE SPAN 11 FT. 10 INS.

General arrangement

RESTRICTED

This file was downloaded  
from the RTFM Library.

Link: [www.scottbouch.com/rtfm](http://www.scottbouch.com/rtfm)

Please see site for usage terms,  
and more aircraft documents.

