

LEADING PARTICULARS

NAME ... HUNTER FR MK. 10
 TYPE ... SINGLE-SEAT, SINGLE-ENGINE, MID-WING
 LAND-BASED MONOPLANE
 DUTY ... FIGHTER RECONNAISSANCE

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 ... 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.

Shock-absorber struts
 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

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 (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

Wheel
 Type ... Dunlop A.H.9336

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LEADING PARTICULARS—Contd.

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. 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.	LB.
(with no external tanks fitted)				
Front tanks	200	1 580	1 540	1 640
Rear tanks	52	410.8	400.4	426.4
Wing tanks	140	1 106	1 078	1 148
Total internal capacity	392	3 096.8	3 018.4	3 214.4
Fuel tank capacities				
(with 2 inboard external tanks fitted)				
Front tanks	202	1 595.8	1 555.4	1 656.4
Rear tanks	52	410.8	400.4	426.4
Wing tanks	146	1 153.4	1 124.2	1 197.2
Total internal capacity	400	3 160	3 080	3 280

Fuel tank capacities

(with 4 external tanks fitted)

Front tanks	202	1 595.8	1 555.4	1 656.4
Rear tanks	52	410.8	400.4	426.4
Wing tanks	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	790	770	820
100 gal. on outboard pylon	99	782.1	762.3	811.8
230 gal. (without outboard external tanks)	233	1 840.7	1 794.1	1 910.6
230 gal. (with outboard external tanks)	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	OX-38 (Ref. No. 34A/9100591)
Specification	...
Quantity (carried in engine sump)	9½ pints approx
Accessories gearbox	OX-38 (Ref. No. 34A/9100591)
Specification	...
Capacity	2.5 pints
Turret (vertical drive arm)	OX-38 (Ref. No. 34A/9100591)
Specification	...
Capacity	¼ pint

Cold air unit

Specification (4 oz. tube)	OX-38 (Ref. No. 34A/9100591)
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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	{ (Pre Mod. 690) 1 575 lb/in ² (Post Mod. 690) 900 lb/in ²
Aileron	1 575 lb/in ²
Elevator	750 lb/in ²
Wheel brakes	...
Emergency air bottle pressures	2 000 lb/in ²
Alighting gear and flaps	...

LEADING PARTICULARS—Contd.

Relief valve blow-off pressures

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

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)		
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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 ²			

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 Mk. 17F	(Ref. No. 6D/2671)	
Charging pressure (in situ)	...	...	...	1 800 lb/in ²			

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)			
(Post Mod.960)	...	...	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)			
(Post Mod.960)	...	...	Graviner Part No. D.2370/60	(Ref. No. 5CZ 5836)			
Firewire 5 ft. element (1)	...	...	Mk. 1	(Ref. No. 27N/93)			
(Post Mod.960)					
Inertia switches (2)					

SEAT

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

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

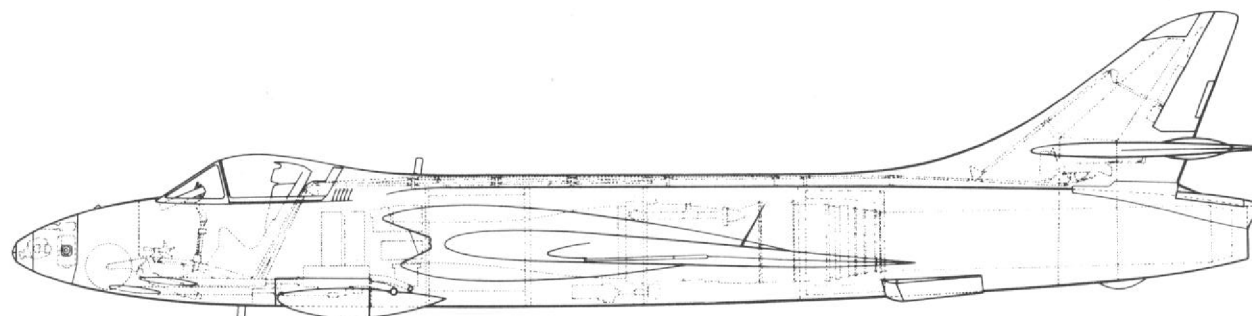
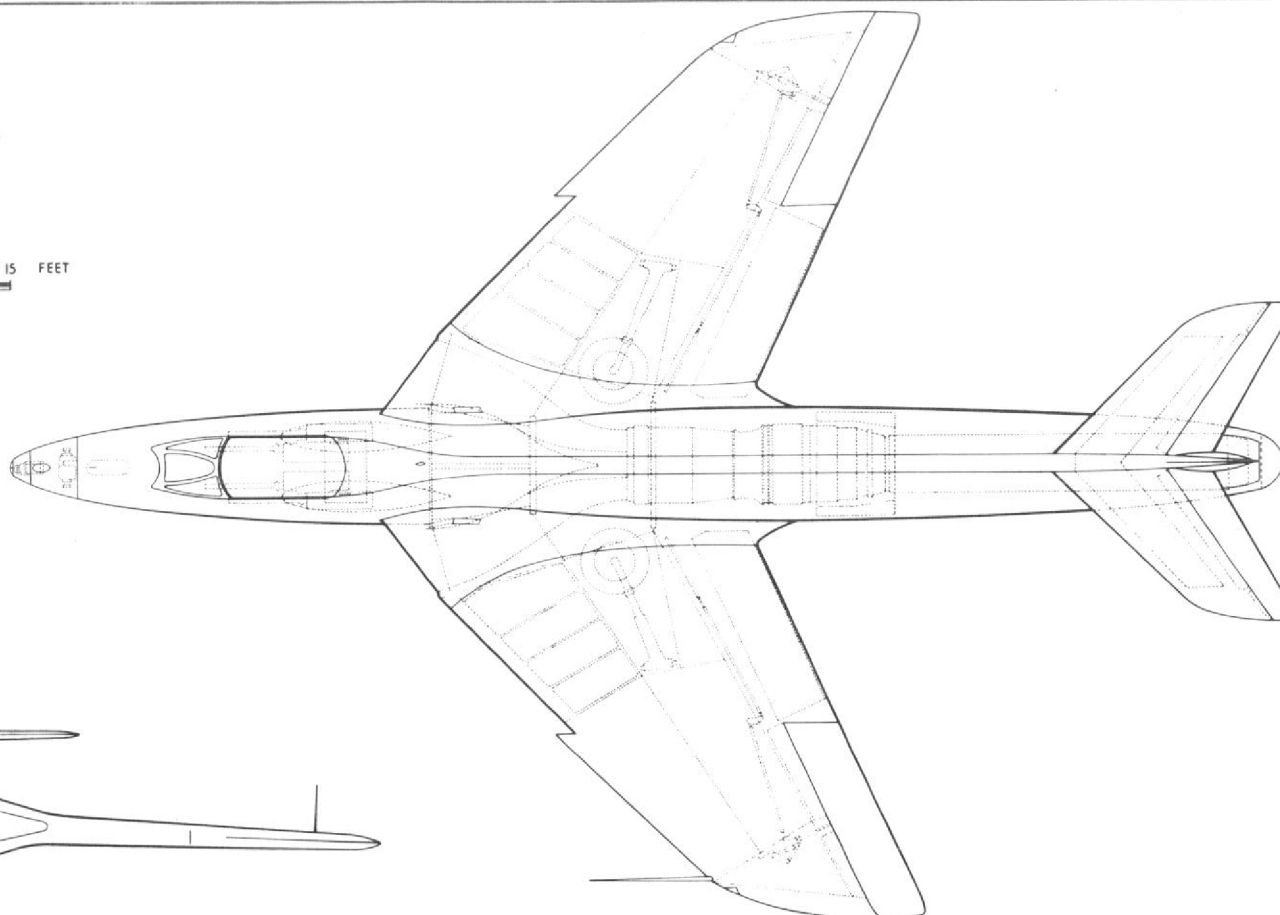
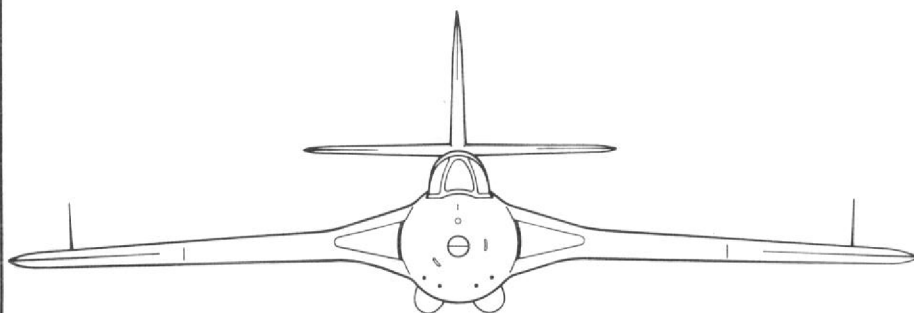
PHOTOGRAPHIC RECONNAISSANCE SYSTEM

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.IO

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

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