

## LEADING PARTICULARS

NAME ... HUNTER GA MK. 11/HUNTER PR MK. 11  
TYPE ... SINGLE-SEAT, SINGLE-ENGINE, MID-WING  
LAND-BASED MONOPLANE  
DUTY ... GROUND ATTACK/PHOTOGRAPHIC 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 ... 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/in<sup>2</sup>

#### 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

[illegible]

### 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

|                      |     |     |     |     |     |     |                          |
|----------------------|-----|-----|-----|-----|-----|-----|--------------------------|
| <b>Gearbox ...</b>   | ... | ... | ... | ... | ... | ... | <b>Rotal Type T.G5/8</b> |
| <b>Drive (front)</b> | ... | ... | ... | ... | ... | ... | <b>Type GD9/44</b>       |

### FUEL DATA

| <i>UK Joint Service<br/>designation</i> | <i>NATO<br/>Code No.</i> | <i>D Eng RD<br/>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> | <i>2494</i> | <i>See column 'A'</i> |
| <i>Avcat</i> | <i>F-44</i> | <i>2498</i> | <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'<br>(8 lb. per gal.) | 'B'<br>(7.7 lb per gal.) |
|------------------------------------|------------|-------------------------|--------------------------|
| <b>Fuel tank capacities</b>        | <b>GAL</b> | <b>LB.</b>              | <b>LB.</b>               |
| <i>(with no drop tanks fitted)</i> |            |                         |                          |
| <i>Front tanks</i>                 | <i>202</i> | <i>1616</i>             | <i>1555.4</i>            |
| <i>Centre tanks</i>                | <i>72</i>  | <i>576</i>              | <i>554.4</i>             |
| <i>Wing tanks</i>                  | <i>140</i> | <i>1120</i>             | <i>1078.</i>             |
| <b>Total internal capacity</b>     | <b>414</b> | <b>3312</b>             | <b>3187.8</b>            |

**'A'** (8 lb. per gal.)      **'B'** (7.7 lb. per gal.)

| Fuel tank capacities<br>(with 2 inboard drop tanks fitted) | GAL. | LB.  | LB.    |
|------------------------------------------------------------|------|------|--------|
| Front tanks                                                | 202  | 1616 | 1555.4 |
| Centre tanks                                               | 72   | 576  | 554.4  |
| Wing tanks                                                 | 146  | 1168 | 1124.2 |
| Total internal capacity                                    | 420  | 3360 | 3234.0 |

|                                   |            |             |               |
|-----------------------------------|------------|-------------|---------------|
| <b>Fuel tank capacities</b>       |            |             |               |
| <i>(with 4 drop tanks fitted)</i> |            |             |               |
| <i>Front tanks</i>                | <i>202</i> | <i>1616</i> | <i>1555.4</i> |
| <i>Centre tanks</i>               | <i>72</i>  | <i>576</i>  | <i>554.4</i>  |
| <i>Wing tanks</i>                 | <i>150</i> | <i>1200</i> | <i>1155.0</i> |
| <b>Total internal capacity</b>    | <b>424</b> | <b>3392</b> | <b>3264.8</b> |

|                             |     |     |       |
|-----------------------------|-----|-----|-------|
| <b>Drop tank capacities</b> |     |     |       |
| 100 gal. on inboard pylon   | 100 | 800 | 770   |
| 100 gal. on outboard pylon  | 99  | 792 | 762.3 |

### Fuel filter de-icing

|               |     |     |     |     |     |     |             |
|---------------|-----|-----|-----|-----|-----|-----|-------------|
| Pump          | ... | ... | ... | ... | ... | ... | F.P. 3 Mk.9 |
| Tank capacity | ... | ... | ... | ... | ... | ... | 1 gallon    |
| Fluid         | ... | ... | ... | ... | ... | ... | AL-8        |

## Oil

### Engine

|                                   |        |                  |
|-----------------------------------|--------|------------------|
| Specification                     | ... .. | OX-38            |
| Quantity (carried in engine sump) | ... .. | 17 pints approx. |

**Accessories gearbox**

[illegible]

**Cold air unit**

|                      |     |     |     |     |     |     |       |
|----------------------|-----|-----|-----|-----|-----|-----|-------|
| <b>Specification</b> | ... | ... | ... | ... | ... | ... | OX-38 |
|----------------------|-----|-----|-----|-----|-----|-----|-------|

## HYDRAULIC SYSTEM

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Type ... ..                            | High pressure, live-line                                                               |
| Components ... ..                      | Dowty                                                                                  |
| Services operated ... ..               | Alighting gear, wheel brakes, landing flaps,<br>air brakes and power-assisted controls |
| Pump ... ..                            | Dowty                                                                                  |
| Fluid ... ..                           | OM-15                                                                                  |
| <b>Accumulator inflation pressures</b> |                                                                                        |

|                                       |     |     |     |     |     |                 |                          |
|---------------------------------------|-----|-----|-----|-----|-----|-----------------|--------------------------|
| <i>Aileron</i>                        | ... | ... | ... | ... | ... | (Pre Mod. 690)  | 1575 lbf/in <sup>2</sup> |
|                                       |     |     |     |     |     | (Post Mod. 690) | 900 lbf/in <sup>2</sup>  |
| <i>Elevator</i>                       | ... | ... | ... | ... | ... |                 | 1575 lbf/in <sup>2</sup> |
| <i>Wheel brakes</i>                   | ... | ... | ... | ... | ... |                 | 750 lbf/in <sup>2</sup>  |
| <i>Emergency air bottle pressures</i> |     |     |     |     |     |                 |                          |
| <i>Alighting gear and flaps</i>       | ... | ... | ... | ... | ... |                 | 2000 lbf/in <sup>2</sup> |

## LEADING PARTICULARS - Contd.

### Relief valve blow-off pressures

|                                                      |     |     |     |     |     |                               |                     |                     |
|------------------------------------------------------|-----|-----|-----|-----|-----|-------------------------------|---------------------|---------------------|
| Hand pump                                            | ... | ... | ... | ... | ... | 2800                          | +100<br>-0          | lbf/in <sup>2</sup> |
| Flaps                                                | ... | ... | ... | ... | ... | 3000                          | +50<br>-0           | lbf/in <sup>2</sup> |
| Air brake                                            | ... | ... | ... | ... | ... | 3400                          | +50<br>-0           | lbf/in <sup>2</sup> |
| Thermal relief valves                                | ... | ... | ... | ... | ... | 4000 to 4150 and 3100 to 3250 | lbf/in <sup>2</sup> |                     |
| Pressure regulator valves (flaps, u/c and air brake) | ... | ... | ... | ... | ... | 1100                          | lbf/in <sup>2</sup> |                     |
| Arrester hook                                        | ... | ... | ... | ... | ... | ...                           | ...                 |                     |
| Damper charging pressure (hook extended)             | ... | ... | ... | ... | ... | 1000                          | lbf/in <sup>2</sup> |                     |

### ELECTRICAL SYSTEM

|                        |     |     |     |     |     |                            |               |
|------------------------|-----|-----|-----|-----|-----|----------------------------|---------------|
| Voltage                | ... | ... | ... | ... | ... | 24                         | volts nominal |
| Generators (2)         | ... | ... | ... | ... | ... | Type 515A                  |               |
| Voltage regulators (2) | ... | ... | ... | ... | ... | Type 94                    |               |
| Cut-out units (2)      | ... | ... | ... | ... | ... | Differential Type A, Mk. 2 |               |
| Batteries (2)          | ... | ... | ... | ... | ... | Type J, 24 volt, 25 amp.   |               |

### 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)                            |

### RADAR

|                                |     |     |     |     |     |                        |
|--------------------------------|-----|-----|-----|-----|-----|------------------------|
| Tacan (Post-mod. 1009)         | ... | ... | ... | ... | ... | (A.R.I.18107)          |
| I.F.F. Mk. 10 (Pre-mod. 1319)  | ... | ... | ... | ... | ... | Type 4585 (A.R.I.5848) |
| I.F.F./S.S.R. (Post-mod. 1319) | ... | ... | ... | ... | ... | (A.R.I.23134/3)        |

### ANTI-'G' SYSTEM

|                             |     |     |     |     |     |                           |
|-----------------------------|-----|-----|-----|-----|-----|---------------------------|
| Air bottles (2)             | ... | ... | ... | ... | ... | 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 <sup>2</sup> |

### OXYGEN SYSTEM

|                             |     |     |     |     |     |                           |
|-----------------------------|-----|-----|-----|-----|-----|---------------------------|
| Cylinders (2)               | ... | ... | ... | ... | ... | Mk. 5D                    |
| Capacity                    | ... | ... | ... | ... | ... | 750 litres each           |
| Pressure reducing valve     | ... | ... | ... | ... | ... | Mk. 1                     |
| Regulator                   | ... | ... | ... | ... | ... | Mk. 17E or Mk. 17F        |
| Charging pressure (in situ) | ... | ... | ... | ... | ... | 1 800 lbf/in <sup>2</sup> |

### AIR CONDITIONING SYSTEM

|               |     |     |     |     |     |                            |
|---------------|-----|-----|-----|-----|-----|----------------------------|
| Cold air unit | ... | ... | ... | ... | ... | A.C.R.E.9 Mk. 6W           |
| Pre-cooler    | ... | ... | ... | ... | ... | Marston-Excelsior D-119-4A |
| Inter-cooler  | ... | ... | ... | ... | ... | Marston-Excelsior D-119-3A |

### FIRE PROTECTION SYSTEM

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

### SEAT

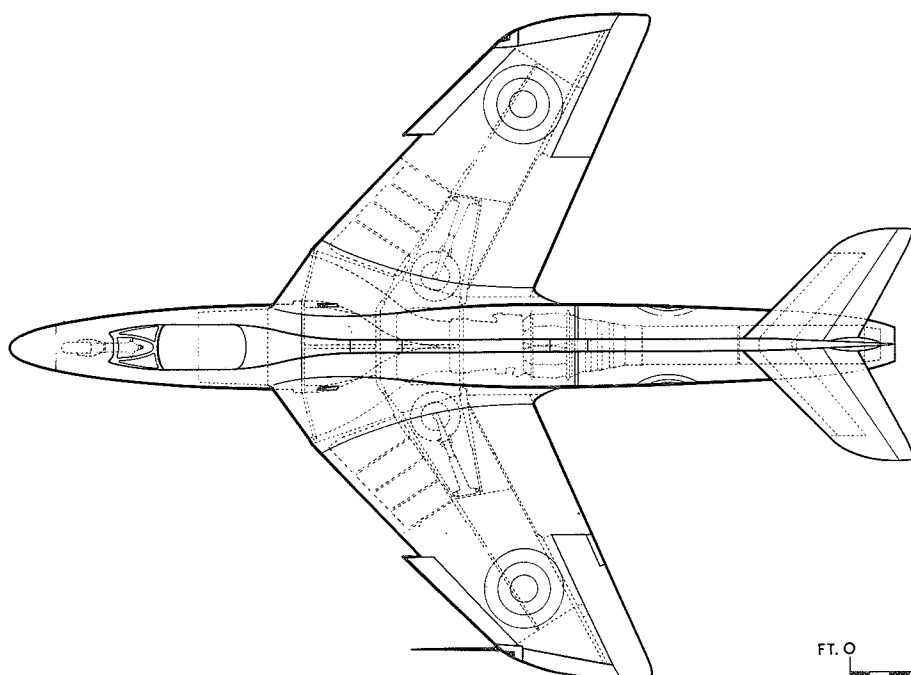
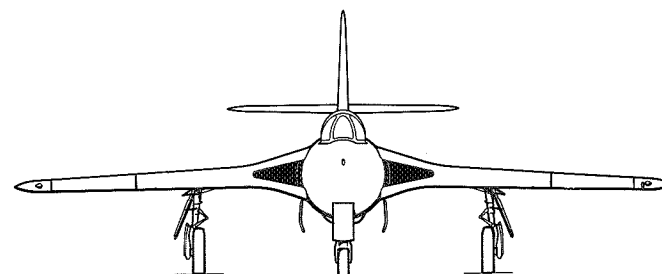
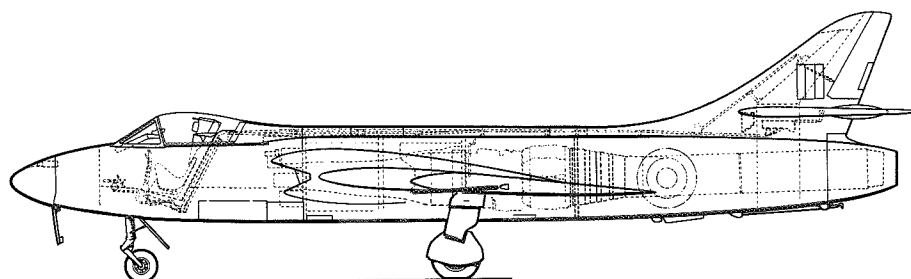
|               |     |     |     |     |     |                         |
|---------------|-----|-----|-----|-----|-----|-------------------------|
| Ejection type | ... | ... | ... | ... | ... | Martin Baker Mk. 2HA(N) |
|---------------|-----|-----|-----|-----|-----|-------------------------|

### ARMAMENT

|        |     |     |     |     |     |                        |
|--------|-----|-----|-----|-----|-----|------------------------|
| Pylons | ... | ... | ... | ... | ... | Two under each wing    |
| Number | ... | ... | ... | ... | ... | (See Sect. 7, Chap. 2) |
| R.P.   | ... | ... | ... | ... | ... | (See Sect. 7, Chap. 2) |
| Bombs  | ... | ... | ... | ... | ... |                        |

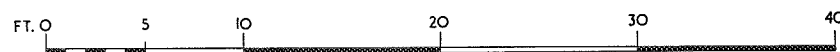
### PHOTOGRAPHIC RECONNAISSANCE SYSTEM (P.R. MK. 11 ONLY)

|                |     |     |     |     |     |                  |
|----------------|-----|-----|-----|-----|-----|------------------|
| Camera F95 (2) | ... | ... | ... | ... | ... | with 4 in. lens  |
| Camera F95 (1) | ... | ... | ... | ... | ... | with 12 in. lens |
| Intervalometer | ... | ... | ... | ... | ... | Type 95 Mk. 2    |



|                 |                 |
|-----------------|-----------------|
| OVERALL LENGTH  | 45 FT. 10-5 IN. |
| OVERALL HEIGHT  | 13 FT. 4 IN.    |
| WING SPAN       | 33 FT. 8 IN.    |
| TAIL PLANE SPAN | 11 FT. 10 IN.   |

**HAWKER HUNTER G A MK.11 & PR MK.11**  
**ROLLS ROYCE ENGINE**



General arrangement

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