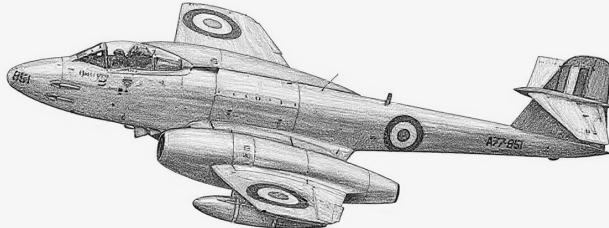


# Gloster Meteor



The Gloster Meteor was the first British jet fighter and the only Allied jet to see combat in WW2. It entered service as a day fighter with the RAF in 1944 and continued to serve in various roles after the war. It was powered by two wing-mounted centrifugal-flow jet engines, had unswept wings, and was armed with four 20 mm guns.

## Versions

### Meteor F.8

The F.8 was a post-WW2 development of the late-WW2 F.4. It had more powerful Rolls-Royce Derwent 8 engines, a lengthened fuselage, a new tail to solve center-of-gravity problems, improved visibility from the cockpit, and provided the capability to carry air-to-ground weapons.

In common with many early jet fighters, it had short endurance and range compared to contemporary propeller-engined aircraft, and this was partially addressed by equipping it with a jettisonable, conformal ventral fuel tank.

The unsophisticated aerodynamics of the Meteor led it to be outclassed by newer swept-wing fighters like the MiG-15 and F-86, and so the F.8 was the last fighter version produced. Subsequent versions were reconnaissance and night fighters.

It was introduced into RAF service in 1949 and served until it was replaced by the Canadair Sabre 4 and Hawker Hunter in the 1950s. It was also used by No. 77 Squadron RAAF in the Korean War, replacing their F-51Ds in April 1951 and serving until replaced by the CAC Sabre. Also, it served in the air forces of Belgium, Brazil, Denmark, Ecuador, and the Netherlands.

### Meteor FR.9

The FR.9 was a photoreconnaissance version of the F.8. It had an extended nose for a single camera that could be

configured on the ground to be either overhead or oblique and retained the full combat capability of the F.8.

It served in the RAF from 1950, the Ecuadorian Air Force, the Israeli IAF, and the Syrian Air Force.

## Armament and Stores

The internal armament of the Meteor was four 20 mm Hispano V cannons.

A typical air-to-air load was the ventral 175-gallon fuel tank, perhaps with two 100-gallon fuel tanks under the wings to increase patrol time.

A typical air-to-ground load was two 1000 lb bombs or eight or sixteen RP-3 rockets in addition to the ventral tank.

## Combat

The F.8 saw combat with the RAAF in the Korean War, mainly in the ground-attack role. In the Suez Crisis, the F.8 was used by the Egyptian, Syrian, and Israeli air forces, and the FR.9 by the RAF.

## ADCs

ADCs are provided for:

- Meteor F.8
- Meteor FR.9

## Photo Credit

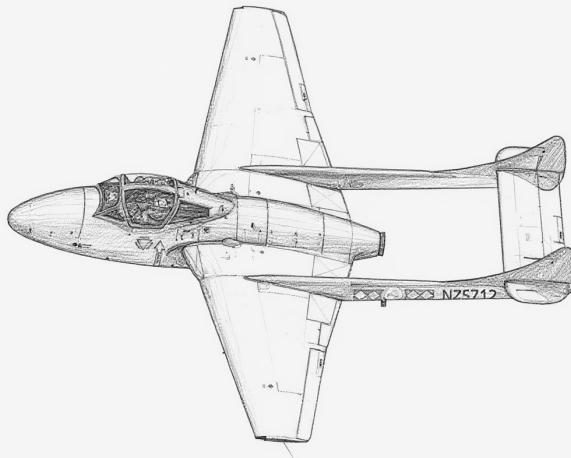
- Gloster Meteor: Chris Phutully (CC BY 2.0)

<b>Meteor F.8</b>					Crew: Pilot								
					<b>Maneuver DPs:</b>								
<b>Power APs/DPs:</b> ○○					LR/DR	2.0							
CL 1/2 DT Fuel					VR	1.0							
AB	—	—	—	—	<b>Turn DPs:</b>								
M	1.0	1.0	1.0	1.0	CL	1/2	DT						
N	0.0	0.0	0.0	0.5	TT	0.5	0.5	0.5					
I	1.0	1.0	1.0	0.0	HT	0.5	1.0	1.0					
SPBR	1.0	1.0	1.0	—	BT	1.0	1.0	1.0					
Cruise Spd. CL: 4.0 Restr. Arcs: —					ET	—	—	—					
Climb Spd.: 2.5 Blind Arcs: 30—													
Visibility: 5 Internal Fuel: 164													
Size: +0 AtA Refuel: No													
Vulnerability: +0 Ejection Seat: Early													
<b>Speeds and Ceilings</b>													
Alt. Band	Conf. Ceil.	CL 44	1/2 42	DT 40	Dive Speed	CL AB	1/2 Oth	DT AB	DT Oth				
EH+	46+	—	—	—	—	—	—	—	—	EH+			
VH	36–45	2.5 – 5.0	2.5 – 4.5	2.5 – 4.5	5.5	—	0.50	—	0.50	— 0.25			
HI	26–35	2.0 – 5.5	2.5 – 5.0	2.5 – 4.5	5.5	—	0.50	—	0.50	— 0.25			
MH	17–25	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.0	—	0.50	—	0.50	— 0.50			
ML	8–16	1.0 – 5.5	1.5 – 5.5	1.5 – 5.0	6.0	—	1.00	—	1.00	— 0.50			
LO	0–7	1.0 – 5.5	1.0 – 5.5	1.5 – 5.0	6.0	—	1.00	—	1.00	— 0.50			
<b>Radar:</b> —					<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>							
ECCM:	—	RWR:	—		DDS:	—							
Arcs:	—	DJM:	—		AJM:	—							
Search:	—	BJM:	—										
Track:	—												
Lock-On:	—												
<b>Guns:</b> Four 20 mm Hispano V	<b>Technology:</b> None			<b>Load Point Limits:</b> CL : < 3 1/2: < 6									
To Hit: 6/4/3				<b>Weight Limit:</b> 3,600	DT : ≥ 6								
Ammunition: 7.0				<b>Station</b>	<b>Limit Allowed Loads</b>								
Gunsight: TT+0/HT+1/BT+2				1 and 3	1,000 BB FT								
Ranging: —				2	1,600 FT								
AtA/AtG: 5/6*				4–7 and 8–11	200 RK								
<b>Bomb System:</b> Manual	<b>Load Notes:</b>												
<b>Notes:</b>	<ol style="list-style-type: none"> <li>The Gloster Meteor F.8 is a fighter and fighter-bomber. It is a development of the WW2 F.4, with more powerful Rolls-Royce Derwent 8 engines, a lengthened fuselage and a new tail to solve center-of-gravity problems, improved visibility from the cockpit, an ejector seat, and the capability to carry air-to-ground weapons.</li> <li>High transonic drag (HTD). Low roll rate (LRR).</li> </ol>												
<b>VPs:</b> 6/4/2/1								v3.0000000 0000-00-00T00:00:00					

<b>Meteor FR.9</b>									<b>Crew:</b> Pilot	
									<b>Maneuver DPs:</b>	
									LR/DR	2.0
									VR	1.0
<b>Power APs/DPs:</b>									<b>Turn DPs:</b>	
○○									CL	1/2
CL      1/2      DT      Fuel									DT	
AB	—	—	—	—					TT	0.5
M	1.0	1.0	1.0	1.0					HT	0.5
N	0.0	0.0	0.0	0.5					BT	1.0
I	1.0	1.0	1.0	0.0					ET	—
SPBR	1.0	1.0	1.0	—						—

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive	CL	1/2	DT			
Band	Ceil.	44	42	40	Speed	AB	AB	AB	Oth	Oth	
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.0	2.5 – 4.5	2.5 – 4.5	5.5	—	0.50	—	0.50	—	0.25
HI	26–35	2.0 – 5.5	2.5 – 5.0	2.5 – 4.5	5.5	—	0.50	—	0.50	—	0.25
MH	17–25	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.0	—	0.50	—	0.50	—	0.50
ML	8–16	1.0 – 5.5	1.5 – 5.5	1.5 – 5.0	6.0	—	1.00	—	1.00	—	0.50
LO	0–7	1.0 – 5.5	1.0 – 5.5	1.5 – 5.0	6.0	—	1.00	—	1.00	—	0.50

# de Havilland Vampire



The de Havilland Vampire was a first-generation British jet day fighter, fighter-bomber, night fighter, and trainer. It first flew in 1943 but did not enter service until after the end of WW2. It had a single engine, straight wings, and an innovative twin-boom tail. The wings, rear fuselage, and tail were aluminum for strength, but the forward fuselage was fabricated from molded plywood, spruce, and balsa, building on de Havilland's extensive experience with this technique, most notably in the Mosquito. Initially, the pilot was not provided with an ejector seat, although one was refitted to some export versions.

Its armament was four Hispano 20 mm cannons, the standard for British fighters at that time, mounted under the nose.

The Vampire entered service with the RAF in 1946. Its contemporary, the twin-engined Meteor, was more complex, expensive, and had less endurance on internal fuel. However, the Meteor crucially had a higher rate of climb, and this led to it being selected for the interceptor role, and the Vampire served mainly as a day fighter, fighter-bomber, and trainer.

Nevertheless, the Vampire had considerable success on the export market, perhaps because of its lower price and simplicity compared to the Meteor, and for many air forces, it was their first jet aircraft.

## Versions

### **Vampire F.1**

The initial F.1 version was a day fighter. The initial batch of F.1 aircraft had the less powerful Goblin 1 engine and lacked cockpit pressurization, but later F.1 aircraft had the more powerful Goblin 2 engine and pressurization. It could carry 100 imperial gallon (450L) fuel tanks under the outer

wings, but had no provision for air-to-ground weapons other than their guns.

It served in the RAF, French AA, Swedish Flygvapnet, and the Dominican AMD/FARD.

### **Vampire F.3**

The F.3 was similar to the F.1, but had significantly more internal fuel and a much improved pressurization system. Like the F.1, it could carry 100 imperial gallon (450L) fuel tanks, but had no provision for air-to-ground stores.

It served in the RAF, RCAF, and Mexican FAM.

### **Vampire FB.5**

The FB.5 was the first fighter-bomber version. It was developed from the F.3 and featured clipped wings for better performance at low level, armor to protect the engine, provision for bombs in place of the fuel tanks, and rails under the inner wings for up to eight RP-3 or T-10 rockets.

It served in the RAF, the French AA, the Italian AMI, the Lebanese LAF, the RNZAF, and the SAAF. The aircraft for the French AA were license-built by SNCASE.

### **Vampire FB.6**

The FB.6 was derived from the FB.5 but had the more powerful Goblin 3 engine. The "Late" version reflects the 1960 upgrade to install an ejection seat.

It was manufactured by both de Havilland and Eidgenössische Konstruktionswerkstätte (F+W).

It served in the Swiss Flugwaffe from 1950 to 1990 (alongside de Havilland Vampire FB.6s), although from 1968 only as a trainer.

### **Vampire FB.9**

The FB.9 was also derived from the FB.5 and had air conditioning for use in tropical zones. Most FB.9s retained the Goblin 2 engine of the FB.5, but Rhodesian FB.9s were fitted with the Goblin 3 for better performance.

It served in the RAF, RAAF, Jordanian RJAF, Lebanese LAF, RNZAF, SRAF/RRAF, and SAAF.

### **Vampire NF.10**

The Vampire NF.10 was a night fighter version, derived from the FB.5 but with a new forward fuselage for the AI Mk X (SCR-720B) radar, side-by-side seating for the pilot and radar operator, and the Goblin 3 engine to compensate for the weight of the radar equipment. It was developed initially for export, but was taken up by the RAF to bridge the

gap between the Mosquito NF.36 and the Meteor NF.11.

It served in the RAF.

### **Vampire T.11**

The Vampire T.11 was a trainer version, derived from the FB.5 but with a new forward fuselage similar to that of the NF.11, with side-by-side seating for the instructor and pupil and dual controls. It retained full combat capability. RAF aircraft were refitted with ejection seats between 1954 and 1957.

It served in the RAF, Austrian Luftstreitkräfte, Chilean FACH, Indian IAF, Jordanian RJAF, Mexican FAM, and Swiss Air Force.

### **Vampire F.20**

The Sea Vampire F.20 was an adaptation of the FB.5 for RN carrier operations. It had strengthened undercarriage, an arrestor hook, and more effective speed brakes, but no capacity to fold its wings.

It served in the RN FAA, but for trials and familiarization and not as a front-line fighter.

### **Vampire T.22**

The Sea Vampire T.22 trainer was essentially a T.11 adapted to RN standards, but was not carrier-capable. It was flown exclusively from terrestrial air stations. RN aircraft were refitted with ejection seats in 1956 and 1957.

It served in the FAA as an advanced trainer.

### **Vampire F.30**

The Vampire F.30 was derived from the Vampire F.2, which had trialed the Nene engine in the F.1 airframe. It was equipped with a Nene-2VH engine with 5,000 lb of thrust, significantly more than the Goblin 3 with 3,500 lb. This greater thrust required greater airflow than could be provided by the standard wing-root intakes, so the F.30 was delivered with additional intakes on the upper side of the fuselage behind the cockpit. To improve handling close to the critical Mach number, these were later moved to the lower side of the fuselage. The F.30 was license-built by de Havilland (Australia).

The F.30 served in the RAAF from 1949 until 1960, when it was replaced by the CAC Sabre.

### **Vampire FB.31**

The Vampire FB.31 was derived from the F.30 with the air-to-ground improvements of the FB.5. It was license-built by de Havilland (Australia).

The FB.31 served in the RAAF from 1952 until 1960, when it was replaced by the CAC Sabre.

### **Vampire T.33 and T.33A**

The Vampire T.33 and was a trainer largely similar to the Vampire T.11 (and notably using the Goblin 35 engine rather than the Nene). The ejection seats and canopy of the T.35 were refitted to the T.33 to give the T.33A. It was license-built by de Havilland (Australia).

The T.33 served in the RAAF from 1952 until 1970, when it was replaced by the Aermacchi MB-326H (CAC CA-30). The T.33A conversions took place some time after 1957.

### **Vampire T.34 and T.34A**

The Vampire T.34 and T.34A were similar to the T.33 and T.33A, but for the RAN rather than the RAAF. It was license-built by de Havilland (Australia).

The T.34 served in the RAN from 1954 until 1970, when it was replaced by the Aermacchi MB-326H (CAC CA-30). The T.34A conversions took place some time after 1957.

### **Vampire T.35**

The Vampire T.35 was a development of the T.33 and added ejection seats, a new canopy, and increased fuel capacity. The ejection seats and canopy were refitted to the T.33 and T.34 to give the T.33A and T.34A versions. It was license-built by de Havilland (Australia).

The T.35 served in the RAAF from 1957 until 1970, when it was replaced by the Aermacchi MB-326H (CAC CA-30).

### **Vampire FB.50 and FB.52**

The Vampire FB.50 and FB.52 were licensed or export versions of the FB.6.

The FB.50 and FB.52 were built by de Havilland and HAL license-built the FB.52 for the Indian IAF.

The FB.50 served in the Swedish Flygvapnet and the Dominican AMD/FARD. The FB.52 served in the Egyptian EAF, Finnish Ilmavoimat, Indian IAF (from 1952 to at least 1971), Iraqi Air Force, Jordanian RJAF, Lebanese LAF, RN-ZAF, Norwegian Luftforsvaret, SRAF/RRAF, Saudi Arabian Air Force, SAAF, Syrian Air Force, and Venezuelan FAV.

### **Vampire FB.52A**

The Vampire FB.52A was a version of the FB.52 for the Italian AMI. Unusually, the FB.52A had the Goblin 2 engine rather than the more powerful Goblin 3 engine used by many of the other fighter-bomber Vampires.

It was built by de Havilland and also under-license by FIAT and Macchi.

It served in the Italian AMI, the Egyptian EAF, and the Syrian Air Force.

### **Vampire NF.54**

The Vampire NF.54 was the export version of the NF.10.

It served in the Italian AMI and the Indian IAF.

### **Vampire T.55**

The Vampire T.55 was the export version of the T.11, and again later variants were fitted with ejection seats.

It was built by de Havilland and also license-built by HAL for the Indian IAF and F+W for the Swiss Flugwaffe.

A few IAF aircraft were adapted in 1959 for photo-reconnaissance and designated PR.55.

It served in the Austrian Luftstreitkräfte, Burmese Air Force, Chilean FACH, Egyptian EAF, Finnish Ilmavoimat, Indian IAF and INAS (from 1952 to 1989), Indonesian Air Force, Iraqi Air Force, Irish IAC, RNZAF, Norwegian Luftforsvaret, Portuguese Air Force, SAAF, Swedish Flygvapnet, Swiss Flugwaffe (late version from 1955 to 1990), and Venezuelan FAV.

### **Vampire T.55A**

The Vampire T.55A was a conversion of the FB.50 with a forward fuselage like that of the T.55.

It served in the Swedish Flygvapnet.

### **Armament and Stores**

The gun armament of all versions was four Hispano 20 mm cannons with 150 rounds per gun.

A typical air-to-air load was two 100 gal (450L) fuel tanks to increase endurance.

A typical air-to-ground load was eight RP-3 or T-10 rockets and then either two 500 lb bombs or fuel tanks, depending on the mission radius. On short-range missions, two 1,000-lb bombs could be carried but without rockets.

### **ADCs**

- Vampire F.3
- Vampire FB.5
- Vampire FB.6
- Vampire FB.6 (Late)
- Vampire FB.9
- Vampire FB.9 (Goblin 3)
- Vampire NF.10
- Vampire T.11
- Vampire T.11 (Late)
- Sea Vampire F.20
- Sea Vampire T.22

- Sea Vampire T.22 (Late)
- Vampire F.30
- Vampire FB.31
- Vampire T.33
- Vampire T.33A
- Vampire T.34
- Vampire T.34A
- Vampire T.35
- Vampire FB.50
- Vampire FB.52
- Vampire FB.52A
- Vampire NF.54
- Vampire T.55
- Vampire T.55 (Late)
- Vampire T.55A

### **See Also**

- SNCASE Mistral

### **Photo Credit**

- de Havilland Vampire: Pseudopanax (Public domain)

<b>Vampire F.1</b>					<b>Crew:</b> Pilot <b>Maneuver DPs:</b> LR/DR 1.5 VR 1.0																																																									
<b>Power APs/DPs:</b> ○ <table border="1"> <thead> <tr> <th></th><th>CL</th><th>1/2</th><th>DT</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>AB</td><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr> <td>M</td><td>1.0</td><td>0.5</td><td>0.5</td><td>1.0</td></tr> <tr> <td>N</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.5</td></tr> <tr> <td>I</td><td>1.0</td><td>1.0</td><td>1.0</td><td>0.0</td></tr> <tr> <td>SPBR</td><td>1.0</td><td>1.0</td><td>1.0</td><td>—</td></tr> </tbody> </table>						CL	1/2	DT	Fuel	AB	—	—	—	—	M	1.0	0.5	0.5	1.0	N	0.0	0.0	0.0	0.5	I	1.0	1.0	1.0	0.0	SPBR	1.0	1.0	1.0	—	<b>Turn DPs:</b> <table border="1"> <thead> <tr> <th></th><th>CL</th><th>1/2</th><th>DT</th></tr> </thead> <tbody> <tr> <td>TT</td><td>0.5</td><td>0.5</td><td>0.5</td></tr> <tr> <td>HT</td><td>1.0</td><td>1.0</td><td>1.0</td></tr> <tr> <td>BT</td><td>1.0</td><td>1.0</td><td>1.0</td></tr> <tr> <td>ET</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>									CL	1/2	DT	TT	0.5	0.5	0.5	HT	1.0	1.0	1.0	BT	1.0	1.0	1.0	ET	—	—	—
	CL	1/2	DT	Fuel																																																										
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BT	1.0	1.0	1.0																																																											
ET	—	—	—																																																											
					Cruise Spd. CL: 3.5 Restr. Arcs: — Climb Spd.: 3.0 Blind Arcs: 30– Visibility: 4 Internal Fuel: 122 Size: +1 AtA Refuel: No Vulnerability: +0 Ejection Seat: None																																																									
<b>Speeds and Ceilings</b>							<b>Climb Capabilities</b>																																																							
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT																																																						
Band	Ceil.	44	40	38		AB	Oth	AB	Oth	AB	Oth																																																			
EH+	46+	—	—	—	—	—	—	—	—	—	—	EH+																																																		
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5	VH																																																		
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5	HI																																																		
MH	17–25	1.5 – 4.5	2.0 – 4.0	2.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5	MH																																																		
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<b>Radar:</b> — ECCM: — Arcs: — Search: — Track: — Lock-On: —				<b>ECM:</b> RWR: — DDS: — DJM: — AJM: — BJM: —				<b>Weapon Stations Diagram:</b>																																																						
<b>Guns:</b> Four 20 mm Hispano Mk V To Hit: 7/4/3 Ammunition: 5.0 Gunsight: TT+0/HT+1/BT+2 Ranging: — AtA/AtG: 5/6*				<b>Technology:</b> None				<b>Load Point Limits:</b> CL : < 3 1/2: < 5 <b>Weight Limit:</b> 2,000 DT : ≥ 5																																																						
<b>Bomb System:</b> Manual								<b>Station</b> Limit Allowed Loads 1 and 2 1,000 FT																																																						
<b>Notes:</b> <ol style="list-style-type: none"> <li>The de Havilland Vampire F.1 is a day fighter. It has no provision for air-to-ground ordnance and unclipped wings. This ADC represents the full-specification variant, with cockpit pressurization and the Goblin 2 engine. It was designated J28A in service with the Swedish Flygvapnet.</li> <li>High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.</li> </ol>																																																														
<b>VPs:</b> 5/3/2/1										v3.0000000 0000-00-00T00:00:00																																																				

<b>Vampire F.3</b>					<b>Crew:</b> Pilot							
					<b>Maneuver DPs:</b>							
<b>Power APs/DPs:</b> ○					LR/DR 1.5 VR 1.0							
CL 1/2 DT Fuel												
AB	—	—	—	—								
M	1.0	0.5	0.5	1.0								
N	0.0	0.0	0.0	0.5								
I	1.0	1.0	1.0	0.0								
SPBR	1.0	1.0	1.0	—								
					Cruise Spd. CL: 3.5 Restr. Arcs: — Climb Spd.: 3.0 Blind Arcs: 30– Visibility: 4 Internal Fuel: 200 Size: +1 AtA Refuel: No Vulnerability: +0 Ejection Seat: None							
					<b>Turn DPs:</b> CL 1/2 DT TT 0.5 0.5 0.5 HT 1.0 1.0 1.0 BT 1.0 1.0 1.0 ET — — —							

<b>Vampire FB.5</b>									<b>Crew:</b> Pilot	
									<b>Maneuver DPs:</b>	
									LR/DR	1.5
									VR	1.0
<b>Power APs/DPs:</b> ○									<b>Turn DPs:</b>	
CL      1/2      DT      Fuel									CL	1/2
AB	—	—	—	—					TT	0.5
M	1.0	0.5	0.5	1.0					HT	1.0
N	0.0	0.0	0.0	0.5					BT	1.0
I	1.0	1.0	1.0	0.0					ET	—
SPBR	1.0	1.0	1.0	—	Cruise Spd. CL: 3.5 Restr. Arcs: —					
					Climb Spd.: 3.0 Blind Arcs: 30-					
					Visibility: 4 Internal Fuel: 200					
					Size: +1 AtA Refuel: No					
					Vulnerability: +0 Ejection Seat: None					

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive	CL	1/2	DT			
Band	Ceil.	44	40	38	Speed	AB	AB	AB			
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5
MH	17–25	1.5 – 4.5	2.0 – 4.0	2.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5
ML	8–16	1.5 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5
LO	0–7	1.0 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5

<b>Vampire FB.6</b>									<b>Crew:</b> Pilot	
<b>Power APs/DPs:</b>									<b>Maneuver DPs:</b>	
CL      1/2      DT      Fuel									LR/DR                    1.5	
AB      —      —      —      —									VR                        1.0	
M      1.0      0.5      0.5      1.0									<b>Turn DPs:</b>	
N      0.0      0.0      0.0      0.5									CL      1/2      DT	
I      1.0      1.0      1.0      0.0									TT      0.5      0.5      0.5	
SPBR    1.0      1.0      1.0      —									HT      1.0      1.0      1.0	
Cruise Spd. CL: 3.5 Restr. Arcs: —									BT      1.0      1.0      1.0	
Climb Spd.: 3.0 Blind Arcs: 30-									ET      —      —      —	
Visibility: 4 Internal Fuel: 200										
Size: +1 AtA Refuel: No										
Vulnerability: +0 Ejection Seat: None										

Speeds and Ceilings					Climb Capabilities						
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth
Band	Ceil.	44	40	38							
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5
MH	17–25	1.5 – 5.0	2.0 – 4.5	2.0 – 4.5	6.0	—	0.5	—	0.5	—	0.5
ML	8–16	1.5 – 5.0	1.5 – 4.5	1.5 – 4.5	6.0	—	0.5	—	0.5	—	0.5
LO	0–7	1.0 – 5.0	1.5 – 4.5	1.5 – 4.5	6.0	—	1.0	—	1.0	—	0.5
											LO

<b>Radar:</b> —	<b>ECM:</b>	<b>Weapon Stations Diagram:</b>																			
ECCM: —	RWR: —																				
Arcs: —	DDS: —																				
Search: —	DJM: —																				
Track: —	AJM: —																				
Lock-On: —	BJM: —																				
<b>Guns:</b> Four 20 mm Hispano Mk V	<b>Technology:</b>	<b>Load Point Limits:</b>						CL : < 3													
To Hit: 7/4/3	None							1/2: < 5													
Ammunition: 5.0		<b>Weight Limit:</b> 2,000						DT : ≥ 5													
Gunsight: TT+0/HT+1/BT+2		<b>Station</b>						<b>Limit Allowed Loads</b>													
Ranging: —		1 and 6	1,000 BB FT		2–3 and 4–5	200 RK															
AtA/AtG: 5/6*			<b>Load Notes:</b>						1. Stations 2 to 5 may each carry one or two RP-3 RKS. 2. May use 450L FTs.												
<b>Bomb System:</b> Manual																					
<b>Notes:</b>																					
1. The de Havilland Vampire FB.6 is a day fighter and fighter-bomber. The FB.6 version has provision for air-to-ground ordnance, the Goblin 3 engine, and clipped wings. 2. High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.																					

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL AB	1/2 AB	DT AB			
Band	Ceil.	44	40	38		Oth	Oth	Oth			
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5
MH	17–25	1.5 – 5.0	2.0 – 4.5	2.0 – 4.5	6.0	—	0.5	—	0.5	—	0.5
ML	8–16	1.5 – 5.0	1.5 – 4.5	1.5 – 4.5	6.0	—	0.5	—	0.5	—	0.5
LO	0–7	1.0 – 5.0	1.5 – 4.5	1.5 – 4.5	6.0	—	1.0	—	1.0	—	0.5

Radar:	—	ECM:		<b>Weapon Stations Diagram:</b>
ECCM:	—	RWR:	—	
Arcs:	—	DDS:	—	
Search:	—	DJM:	—	
Track:	—	AJM:	—	
Lock-On:	—	BJM:	—	
<b>Guns:</b>	Four 20 mm Hispano Mk V	<b>Technology:</b>		<b>Load Point Limits:</b>
To Hit:	7/4/3	None		CL : < 3
Ammunition:	5.0			1/2: < 5
Gunsight:	TT+0/HT+1/BT+2			DT : ≥ 5
Ranging:	—			
AtA/AtG:	5/6*			
<b>Bomb System:</b>	Manual			<b>Weight Limit:</b> 2,000
<b>Notes:</b>				<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>
1.	The Vampire FB.6 is a day fighter and fighter-bomber. The “Late” variant described is the 1960 upgrade with an ejection seat.			1 and 6      1,000 BB FT
2.	High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.			2–3 and 4–5      200 RK
				<b>Load Notes:</b>
				1. Stations 2 to 5 may each carry one or two RP-3 RKS. 2. May use 450L FTs.
				<b>VPs:</b> 5/3/2/1
				v3 0000000 0000-00-00T00:00:00

<b>Vampire FB.9</b>					<b>Crew:</b> Pilot
<b>Power APs/DPs:</b>					<b>Maneuver DPs:</b>
CL    1/2    DT    Fuel					LR/DR                          1.5 VR                                1.0
AB    —    —    —    —					<b>Turn DPs:</b>
M    1.0    0.5    0.5    1.0					CL    1/2    DT
N    0.0    0.0    0.0    0.5					TT    0.5    0.5    0.5
I    1.0    1.0    1.0    0.0					HT    1.0    1.0    1.0
SPBR    1.0    1.0    1.0    —					BT    1.0    1.0    1.0
Cruise Spd. CL: 3.5 Restr. Arcs: —					ET    —    —    —
Climb Spd.: 3.0 Blind Arcs: 30—					
Visibility: 4 Internal Fuel: 200					
Size: +1 AtA Refuel: No					
Vulnerability: +0 Ejection Seat: None					

Speeds and Ceilings				Climb Capabilities							
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL AB	1/2 AB	DT AB	CL Oth	1/2 Oth	DT Oth
Band	Ceil.	44	40	38							
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	— 0.5	— 0.5	— 0.5	— 0.5	— 0.5	VH
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	— 0.5	— 0.5	— 0.5	— 0.5	— 0.5	HI
MH	17–25	1.5 – 4.5	2.0 – 4.0	2.0 – 4.0	6.0	— 0.5	— 0.5	— 0.5	— 0.5	— 0.5	MH
ML	8–16	1.5 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	— 0.5	— 0.5	— 0.5	— 0.5	— 0.5	ML
LO	0–7	1.0 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	— 0.5	— 0.5	— 0.5	— 0.5	— 0.5	LO

<b>Radar:</b> —	<b>ECM:</b> —	<b>Weapon Stations Diagram:</b>
ECCM: —	RWR: —	
Arcts: —	DDS: —	
Search: —	DJM: —	
Track: —	AJM: —	
Lock-On: —	BJM: —	
<b>Guns:</b> Four 20 mm Hispano Mk V	<b>Technology:</b> None	<b>Load Point Limits:</b> CL : < 3 1/2: < 5
To Hit: 7/4/3		<b>Weight Limit:</b> 2,000 DT : ≥ 5
Ammunition: 5.0		<b>Station</b> Limit Allowed Loads
Gunsight: TT+0/HT+1/BT+2		1 and 6 1,000 BB FT
Ranging: —		2–3 and 4–5 200 RK
AtA/AtG: 5/6*		<b>Load Notes:</b>
<b>Bomb System:</b> Manual		1. Stations 2 to 5 may each carry one or two RP-3 Rks. 2. May use 450L FTs.
<b>Notes:</b>		
1. The de Havilland Vampire FB.9 is a day fighter and fighter-bomber. The FB.9 version has provision for air-to-ground ordnance, the Goblin 2 engine, clipped wings, and an air-conditioned cockpit for use in tropical climates. 2. High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.		
		<b>VPs:</b> 5/3/2/1
		v3.0000000 0000-00T00:00:00

<b>Vampire FB.9 (Goblin 3)</b>					<b>Crew:</b> Pilot																																																																																																																												
					<b>Maneuver DPs:</b>																																																																																																																												
<b>Power APs/DPs:</b>					LR/DR 1.5 VR 1.0																																																																																																																												
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<b>Guns:</b> Four 20 mm Hispano Mk V To Hit: 7/4/3 Ammunition: 5.0 Gunsight: TT+0/HT+1/BT+2 Ranging: — AtA/AtG: 5/6*				<b>Technology:</b> None				<b>Load Point Limits:</b> CL : < 3 1/2: < 5 <b>Weight Limit:</b> 2,000 DT : ≥ 5																																																																																																																									
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<b>Notes:</b> 1. The de Havilland Vampire FB.9 is a day fighter and fighter-bomber. This “Goblin 3” version is a derivative of the base version, but is equipped with the more powerful Goblin 3 engine. 2. High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.																																																																																																																																	
<b>VPs:</b> 5/3/2/1											v3.0000000 0000-00T00:00:00																																																																																																																						

<b>Vampire NF.10</b>					<b>Crew:</b> Pilot and Radar Operator																																																																																																																												
					<b>Maneuver DPs:</b>																																																																																																																												
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<b>Vampire T.11 (Late)</b>					<b>Crew:</b> Pilot and Observer							
					<b>Maneuver DPs:</b>							
<b>Power APs/DPs:</b> ○					LR/DR 1.5 VR 1.0							
CL 1/2 DT Fuel												
AB	—	—	—	—								
M	1.0	0.5	0.5	1.0								
N	0.0	0.0	0.0	0.5								
I	1.0	1.0	1.0	0.0								
SPBR	1.0	1.0	1.0	—								
					Cruise Spd. CL: 3.5 Restr. Arcs: — Climb Spd.: 3.0 Blind Arcs: 30– Visibility: 4 Internal Fuel: 200 Size: +1 AtA Refuel: No Vulnerability: +0 Ejection Seat: Early							
					<b>Turn DPs:</b> CL 1/2 DT TT 0.5 0.5 0.5 HT 1.0 1.0 1.0 BT 1.0 1.0 1.0 ET — — —							

<b>Sea Vampire F.20</b>					Crew: Pilot																																																																																					
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Size:	+1	AtA Refuel:	No																																																																																							
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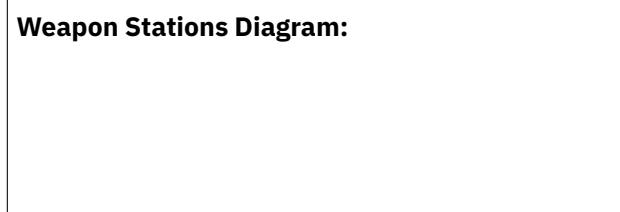
<b>Sea Vampire T.22</b>					Crew: Pilot and Observer																																																																																					
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<b>Sea Vampire T.22</b> <i>(Late)</i>									<b>Crew:</b> Pilot and Observer			
									<b>Maneuver DPs:</b>			
									LR/DR	1.5		
									VR	1.0		
<b>Power APs/DPs:</b>									<b>Turn DPs:</b>			
									CL	1/2	DT	
AB	—	—	—	—					TT	0.5	0.5	0.5
M	1.0	0.5	0.5	1.0					HT	1.0	1.0	1.0
N	0.0	0.0	0.0	0.5					BT	1.0	1.0	1.0
I	1.0	1.0	1.0	0.0	Cruise Spd. CL: 3.5 Restr. Arcs: —				ET	—	—	—
SPBR	1.0	1.0	1.0	—	Climb Spd.: 3.0 Blind Arcs: 30–							
					Visibility: 4 Internal Fuel: 200							
					Size: +1 AtA Refuel: No							
					Vulnerability: +0 Ejection Seat: Early							

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT			
Band	Ceil.	44	40	38		AB	AB	AB	Oth	Oth	
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5
MH	17–25	1.5 – 4.5	2.0 – 4.0	2.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5
ML	8–16	1.5 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5
LO	0–7	1.0 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5

<b>Vampire F.30</b>					<b>Crew:</b> Pilot							
					<b>Maneuver DPs:</b>							
<b>Power APs/DPs:</b> ○					LR/DR 1.5 VR 1.0							
CL 1/2 DT Fuel												
AB	—	—	—	—								
M	1.0	1.0	1.0	1.5								
N	0.0	0.0	0.0	0.5								
I	1.0	1.0	1.0	0.0								
SPBR	1.0	1.0	1.0	—								
					Cruise Spd. CL: 3.5 Restr. Arcs: — Climb Spd.: 3.0 Blind Arcs: 30– Visibility: 4 Internal Fuel: 200 Size: +1 AtA Refuel: No Vulnerability: +0 Ejection Seat: None							
<b>Speeds and Ceilings</b>												
Alt.	Conf.	CL	1/2	DT	Dive	CL	1/2	DT				
Band	Ceil.	48	44	40	Speed	AB Oth	AB Oth	AB Oth				
EH+	46+	—	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.5	3.0 – 5.0	3.0 – 4.5	6.0	— 0.5	— 0.5	— 0.5	—	0.5	—	VH
HI	26–35	2.0 – 5.5	2.5 – 5.0	2.5 – 4.5	6.5	— 0.5	— 0.5	— 0.5	—	0.5	—	HI
MH	17–25	1.5 – 5.5	2.0 – 5.0	2.0 – 5.0	6.5	— 0.5	— 0.5	— 0.5	—	0.5	—	MH
ML	8–16	1.5 – 5.5	1.5 – 5.0	1.5 – 5.0	6.5	— 1.0	— 1.0	— 1.0	—	1.0	—	ML
LO	0–7	1.0 – 5.5	1.5 – 5.0	1.5 – 5.0	6.0	— 1.5	— 1.0	— 1.0	—	1.0	—	LO
<b>Radar:</b> — ECCM: — Arcs: — Search: — Track: — Lock-On: —					<b>ECM:</b> RWR: — DDS: — DJM: — AJM: — BJM: —							
<b>Guns:</b> Four 20 mm Hispano Mk V To Hit: 7/4/3 Ammunition: 5.0 Gunsight: TT+0/HT+1/BT+2 Ranging: — AtA/AtG: 5/6*					<b>Technology:</b> None							
					<b>Load Point Limits:</b> CL : < 3 1/2: < 5 <b>Weight Limit:</b> 2,000 DT : ≥ 5							
					<b>Station</b> Limit Allowed Loads 1 and 2 1,000 FT							
					<b>Load Notes:</b> 1. May use 450L FTs.							
<b>Bomb System:</b> Manual												
<b>Notes:</b> 1. The Vampire F.30 is a day fighter. It is a derivative of the de Havilland Vampire F.3 but with a more powerful Nene engine. 2. High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.												
<b>VPs:</b> 6/4/2/1										v3.0000000 0000-00-00T00:00:00		

<b>Vampire FB.31</b>					Crew: Pilot																																																																																																																												
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<b>Guns:</b> Four 20 mm Hispano Mk V To Hit: 7/4/3 Ammunition: 5.0 Gunsight: TT+0/HT+1/BT+2 Ranging: — AtA/AtG: 5/6*				<b>Technology:</b> None				<b>Load Point Limits:</b> CL : < 3 1/2: < 5 <b>Weight Limit:</b> 2,000 DT : ≥ 5																																																																																																																									
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<b>Notes:</b> 1. The Vampire T.34 is a trainer with a secondary light attack capability. It is a development of the T.33 for RAN use. 2. High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.																																																																																																																																	
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<b>Guns:</b> Four 20 mm Hispano Mk V To Hit: 7/4/3 Ammunition: 5.0 Gunsight: TT+0/HT+1/BT+2 Ranging: — AtA/AtG: 5/6*				<b>Technology:</b> None				<b>Load Point Limits:</b> CL : < 3 1/2: < 5 <b>Weight Limit:</b> 2,000 DT : ≥ 5																																																																																																																									
<b>Bomb System:</b> Manual				<table border="1"> <thead> <tr><th>Station</th><th>Limit</th><th>Allowed Loads</th></tr> </thead> <tbody> <tr><td>1 and 6</td><td>1,000</td><td>BB FT</td></tr> <tr><td>2–3 and 4–5</td><td>200</td><td>RK</td></tr> </tbody> </table> <b>Load Notes:</b> 1. Stations 2 to 5 may each carry one or two RP-3 RKS. 2. May use 450L FTs.										Station	Limit	Allowed Loads	1 and 6	1,000	BB FT	2–3 and 4–5	200	RK																																																																																																											
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<b>Notes:</b> 1. The Vampire T.35 is a trainer with a secondary light attack capability. It is a development of the T.33 with a new canopy, ejection seats, and additional fuel. 2. High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.																																																																																																																																	
<b>VPs:</b> 5/3/2/1										v3.0000000 0000-00T00:00:00																																																																																																																							

<b>Vampire FB.50</b>									<b>Crew:</b> Pilot	
									<b>Maneuver DPs:</b>	
									LR/DR	1.5
									VR	1.0
<b>Power APs/DPs:</b> ○									<b>Turn DPs:</b>	
AB CL 1/2 DT Fuel									CL	1/2
AB	—	—	—	—					TT	0.5
M	1.0	0.5	0.5	1.0					HT	1.0
N	0.0	0.0	0.0	0.5					BT	1.0
I	1.0	1.0	1.0	0.0	Cruise Spd. CL: 3.5 Restr. Arcs: —				ET	—
SPBR	1.0	1.0	1.0	—	Climb Spd.: 3.0 Blind Arcs: 30–					
					Visibility: 4 Internal Fuel: 200					
					Size: +1 AtA Refuel: No					
					Vulnerability: +0 Ejection Seat: None					

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT			
Band	Ceil.	44	40	38		AB	AB	AB			
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5
MH	17–25	1.5 – 5.0	2.0 – 4.5	2.0 – 4.5	6.0	—	0.5	—	0.5	—	0.5
ML	8–16	1.5 – 5.0	1.5 – 4.5	1.5 – 4.5	6.0	—	0.5	—	0.5	—	0.5
LO	0–7	1.0 – 5.0	1.5 – 4.5	1.5 – 4.5	6.0	—	1.0	—	1.0	—	0.5

<b>Vampire FB.52</b>										<b>Crew:</b> Pilot	
<b>Power APs/DPs:</b>										<b>Maneuver DPs:</b>	
CL      1/2      DT      Fuel										LR/DR                    1.5	
AB      —      —      —      —										VR                        1.0	
M      1.0      0.5      0.5      1.0										<b>Turn DPs:</b>	
N      0.0      0.0      0.0      0.5										CL      1/2      DT	
I      1.0      1.0      1.0      0.0										TT      0.5      0.5      0.5	
SPBR    1.0      1.0      1.0      —					Cruise Spd. CL: 3.5 Restr. Arcs: —					HT      1.0      1.0      1.0	
					Climb Spd.: 3.0 Blind Arcs: 30-					BT      1.0      1.0      1.0	
					Visibility: 4 Internal Fuel: 200					ET      —      —      —	
					Size: +1 AtA Refuel: No						
					Vulnerability: +0 Ejection Seat: None						

<b>Speeds and Ceilings</b>					<b>Climb Capabilities</b>						
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth
Band	Ceil.	44	40	38							
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5
MH	17–25	1.5 – 5.0	2.0 – 4.5	2.0 – 4.5	6.0	—	0.5	—	0.5	—	0.5
ML	8–16	1.5 – 5.0	1.5 – 4.5	1.5 – 4.5	6.0	—	0.5	—	0.5	—	0.5
LO	0–7	1.0 – 5.0	1.5 – 4.5	1.5 – 4.5	6.0	—	1.0	—	1.0	—	0.5
											LO

<b>Radar:</b> —	<b>ECM:</b> —	<b>Weapon Stations Diagram:</b>									
ECCM: —	RWR: —										
Arcs: —	DDS: —										
Search: —	DJM: —										
Track: —	AJM: —										
Lock-On: —	BJM: —										
<b>Guns:</b> Four 20 mm Hispano Mk V	<b>Technology:</b> None	<b>Load Point Limits:</b>									CL : < 3
To Hit: 7/4/3		1/2: < 5									
Ammunition: 5.0		<b>Weight Limit:</b> 2,000									DT : ≥ 5
Gunsight: TT+0/HT+1/BT+2		<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>									
Ranging: —		1 and 6      1,000 BB FT									
AtA/AtG: 5/6*		2–3 and 4–5      200 RK									
<b>Bomb System:</b> Manual		<b>Load Notes:</b>									
<b>Notes:</b>		1. Stations 2 to 5 may each carry one or two RP-3 RKS. 2. May use 450L FTs.									
1. The de Havilland Vampire FB.52 is a day fighter and fighter-bomber. The FB.52 version is an export version of the FB.6, with provision for air-to-ground ordnance, the Goblin 3 engine, and clipped wings.											
2. High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.											
<b>VPs:</b> 5/3/2/1											v3.0000000 0000-00-00T00:00:00

<b>Vampire FB.52A</b>					<b>Crew:</b> Pilot
<b>Power APs/DPs:</b>					<b>Maneuver DPs:</b>
CL    1/2    DT    Fuel					LR/DR                          1.5 VR                                1.0
AB    —    —    —    —					<b>Turn DPs:</b>
M    1.0    0.5    0.5    1.0					CL    1/2    DT
N    0.0    0.0    0.0    0.5					TT    0.5    0.5    0.5
I    1.0    1.0    1.0    0.0					HT    1.0    1.0    1.0
SPBR    1.0    1.0    1.0    —					BT    1.0    1.0    1.0
Cruise Spd. CL: 3.5 Restr. Arcs: —					ET    —    —    —
Climb Spd.: 3.0 Blind Arcs: 30—					
Visibility: 4 Internal Fuel: 200					
Size: +1 AtA Refuel: No					
Vulnerability: +0 Ejection Seat: None					

Speeds and Ceilings				Climb Capabilities							
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL AB	1/2 AB	DT AB	CL Oth	1/2 Oth	DT Oth
Band	Ceil.	44	40	38							
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	— 0.5	— 0.5	— 0.5	—	0.5	VH
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	— 0.5	— 0.5	— 0.5	—	0.5	HI
MH	17–25	1.5 – 4.5	2.0 – 4.0	2.0 – 4.0	6.0	— 0.5	— 0.5	— 0.5	—	0.5	MH
ML	8–16	1.5 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	— 0.5	— 0.5	— 0.5	—	0.5	ML
LO	0–7	1.0 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	— 0.5	— 0.5	— 0.5	—	0.5	LO

<b>Radar:</b> —	<b>ECM:</b> —	<b>Weapon Stations Diagram:</b>
ECCM: —	RWR: —	
Arcs: —	DDS: —	
Search: —	DJM: —	
Track: —	AJM: —	
Lock-On: —	BJM: —	
<b>Guns:</b> Four 20 mm Hispano Mk V	<b>Technology:</b> None	<b>Load Point Limits:</b> CL : < 3 1/2: < 5
To Hit: 7/4/3		<b>Weight Limit:</b> 2,000 DT : ≥ 5
Ammunition: 5.0		<b>Station</b> Limit Allowed Loads
Gunsight: TT+0/HT+1/BT+2		1 and 6 1,000 BB FT
Ranging: —		2–3 and 4–5 200 RK
AtA/AtG: 5/6*		<b>Load Notes:</b>
<b>Bomb System:</b> Manual		1. Stations 2 to 5 may each carry one or two RP-3 Rks. 2. May use 450L FTs.
<b>Notes:</b>		
1. The de Havilland Vampire FB.52A is a day fighter and fighter-bomber. The FB.52A version is an export version of the FB.6, with provision for air-to-ground ordnance, the Goblin 2 engine, and clipped wings. 2. High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.		
		<b>VPs:</b> 5/3/2/1
		v3.0000000 0000-00T00:00:00

<b>Vampire NF.54</b>					<b>Crew:</b> Pilot and Radar Operator							
					<b>Maneuver DPs:</b>							
<b>Power APs/DPs:</b> ○					LR/DR 1.5 VR 1.0							
AB CL 1/2 DT Fuel												
AB	—	—	—	—								
M	1.0	0.5	0.5	1.0								
N	0.0	0.0	0.0	0.5								
I	1.0	1.0	1.0	0.0								
SPBR	1.0	1.0	1.0	—								
					Cruise Spd. CL: 3.5 Restr. Arcs: — Climb Spd.: 3.0 Blind Arcs: 30– Visibility: 4 Internal Fuel: 200 Size: +1 AtA Refuel: No Vulnerability: +0 Ejection Seat: None							
					<b>Turn DPs:</b> CL 1/2 DT TT 0.5 0.5 0.5 HT 1.0 1.0 1.0 BT 1.0 1.0 1.0 ET — — —							

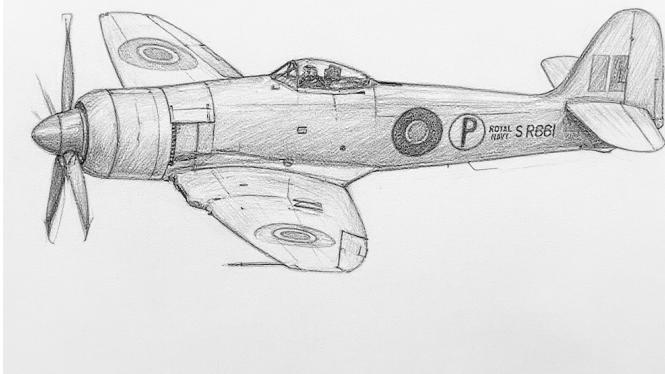
<b>Vampire T.55</b>					<b>Crew:</b> Pilot and Observer																																																									
					<b>Maneuver DPs:</b>																																																									
<b>Power APs/DPs:</b> ○					LR/DR 1.5 VR 1.0																																																									
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<b>Speeds and Ceilings</b>																																																														
Alt. Band	Conf. Ceil.	CL 44	1/2 40	DT 38	Dive Speed	CL AB	1/2 Oth	CL AB	1/2 Oth	DT AB	DT Oth																																																			
EH+	46+	—	—	—	—	—	—	—	—	—	—	EH+																																																		
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5	VH																																																		
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5	HI																																																		
MH	17–25	1.5 – 4.5	2.0 – 4.0	2.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5	MH																																																		
ML	8–16	1.5 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5	ML																																																		
LO	0–7	1.0 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5	LO																																																		
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<b>Notes:</b>																																																														
1. The de Havilland Vampire T.55 is a trainer with a secondary light attack capability. The T.55 is an export version of the T.11. It was designated J28C/Sk28C/Sk28C-1 in service with the Swedish Flygvapnet. 2. High transonic drag (HTD). Rapid acceleration (RA) if speed ≤ 4.0.																																																														
<b>VPs:</b> 5/3/2/1										v3.0000000 0000-00T00:00:00																																																				

<b>Vampire T.55</b> <i>(Late)</i>									<b>Crew:</b> Pilot and Observer			
									<b>Maneuver DPs:</b>			
									LR/DR	1.5		
									VR	1.0		
<b>Power APs/DPs:</b>									<b>Turn DPs:</b>			
									CL	1/2	DT	
AB	—	—	—	—					TT	0.5	0.5	0.5
M	1.0	0.5	0.5	1.0					HT	1.0	1.0	1.0
N	0.0	0.0	0.0	0.5					BT	1.0	1.0	1.0
I	1.0	1.0	1.0	0.0	Cruise Spd. CL: 3.5 Restr. Arcs: —				ET	—	—	—
SPBR	1.0	1.0	1.0	—	Climb Spd.: 3.0 Blind Arcs: 30–							
					Visibility: 4 Internal Fuel: 200							
					Size: +1 AtA Refuel: No							
					Vulnerability: +0 Ejection Seat: Early							

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT			
Band	Ceil.	44	40	38		AB	AB	AB	Oth	Oth	
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.0	3.0 – 4.5	3.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5
HI	26–35	2.0 – 5.0	2.5 – 4.5	2.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5
MH	17–25	1.5 – 4.5	2.0 – 4.0	2.0 – 4.0	6.0	—	0.5	—	0.5	—	0.5
ML	8–16	1.5 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5
LO	0–7	1.0 – 4.5	1.5 – 4.0	1.5 – 4.0	6.0	—	0.5	—	0.5	—	0.5

<b>Vampire T.55A</b>					Crew: Pilot and Observer																																																																																					
					<b>Maneuver DPs:</b>																																																																																					
<b>Power APs/DPs:</b>					LR/DR 1.5 VR 1.0																																																																																					
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	CL	1/2	DT	Fuel																																																																																						
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Cruise Spd. CL:	3.5	Restr. Arcs:	—																																																																																							
Climb Spd.:	3.0	Blind Arcs:	30–																																																																																							
Visibility:	4	Internal Fuel:	200																																																																																							
Size:	+1	AtA Refuel:	No																																																																																							
Vulnerability:	+0	Ejection Seat:	Early																																																																																							
					<b>Turn DPs:</b>																																																																																					
					<table border="1"> <thead> <tr><th></th><th>CL</th><th>1/2</th><th>DT</th><th></th><th></th><th></th><th></th></tr> </thead> <tbody> <tr><td>TT</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td><td></td><td></td><td></td></tr> <tr><td>HT</td><td>1.0</td><td>1.0</td><td>1.0</td><td></td><td></td><td></td><td></td></tr> <tr><td>BT</td><td>1.0</td><td>1.0</td><td>1.0</td><td></td><td></td><td></td><td></td></tr> <tr><td>ET</td><td>—</td><td>—</td><td>—</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>									CL	1/2	DT					TT	0.5	0.5	0.5					HT	1.0	1.0	1.0					BT	1.0	1.0	1.0					ET	—	—	—																																										
	CL	1/2	DT																																																																																							
TT	0.5	0.5	0.5																																																																																							
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BT	1.0	1.0	1.0																																																																																							
ET	—	—	—																																																																																							

# Hawker Sea Fury and Fury



The Hawker Sea Fury was a post-WW2 propeller-driven fighter bomber.

The Sea Fury was a descendant of the WW2 Hawker Tempest fighter bomber, which was designed to be a long-range fighter for use by the RAF in the war against Japan. After WW2 ended, the RAF no longer had an interest, but the RN acquired a version adapted for carrier operations as a replacement for its Seafires, which were not well suited to carrier operations, and Corsairs, which had to be returned to the US as the Lend-Lease program ended.

The Sea Fury was powered by a Centaur radial engine, armed with four 20 mm guns, and had a bubble canopy with an excellent view except under the nose.

## Versions

### **Sea Fury F.10**

The initial version of the Sea Fury was the F.10 day fighter.

It entered service in the RN in 1947, but seems to have been quickly replaced by the FB.11 version.

### **Sea Fury F.11**

The FB.11 was derived from the F.10 and had added armor and weapon stations to perform better as a fighter-bomber.

It served in the RN from 1948 to 1956, RAN from 1948 to 1959, and RCN from 1948 to 1956. It was replaced in the RN by the Sea Hawk and Attacker starting in 1953, in the RAN by the Sea Venom in 1956, and in the RCN by the F2H Banshees starting in 1956. New and ex-RN FB.11s also served in the Burmese Air Force from 1958 to 1968, the Cuban Air Force from 1957, the Egyptian Air Force, and the Pakistan Air Force.

### **Sea Fury T.20**

The T.20 was a two-seater trainer. To compensate for the weight of the additional cockpit, the armament was reduced to two 20 mm cannons.

It served with the RN. Some ex-RN aircraft were later used by the Burmese Air Force from 1958 to 1968 and by the Cuban Air Force from 1957.

### **Sea Fury F.50 and FB.50**

The F.50 and FB.50 were export versions of the F.10 and FB.11 with minor changes. Some were license-built by Fokker.

The F.50 and FB.50 were used by the Royal Netherlands Navy from 1947 and were eventually replaced by Sea Hawks.

### **Fury and Fury FB.60**

The Fury (with no version designation but sometimes referred to as the “Baghdad Fury”) and the FB.60 were export versions of the FB.11 with carrier-specific equipment removed.

The Fury was used by the Iraqi Air Force from 1946 until 1969, being replaced by the Su-7 starting in 1967. The FB.60 was used by the Pakistan Air Force from 1950 until 1960, being replaced by Sabres starting in 1955.

### **Fury Trainer and Fury T.61**

The Fury Trainer (with no version designation) and the T.61 were export versions of the T.20 with carrier-specific equipment removed.

The Fury Trainer was used by the Iraqi Air Force. The T.61 was used by the Pakistan Air Force.

## Armament and Stores

A typical air-to-ground load was two 500-lb or 1000-lb bombs or twelve RP-3 rockets. It could also carry two 90-gallon fuel tanks to extend its range.

## Combat

The RN and RAN used the Sea Fury as a fighter-bomber in the Korean War. They also saw combat with the Netherlands Royal Navy in the Dutch East Indies, with the Cuban Air Force against Fidel Castro's revolutionaries, and with the Cuban Revolutionary Air Force during the Bay of Pigs invasion.

## **ADCs**

- Sea Fury F.10
- Sea Fury FB.11
- Sea Fury T.20
- Sea Fury F.50
- Sea Fury FB.50
- Sea Fury FB.60
- Sea Fury T.61
- Fury
- Fury Trainer

## **Photo Credit**

- Hawker Sea Fury: Alan Wilson (CC BY-SA 2.0)

<b>Sea Fury F.10</b>									<b>Crew:</b> Pilot	
									<b>Maneuver DPs:</b>	
									LR/DR	1.5
									VR	1.5
<b>Power APs/DPs:</b>									<b>Turn DPs:</b>	
CL      1/2      DT      Fuel									CL	1/2
FT	2.0	1.5	1.0	0.5					TT	0.25
HT	0.5	0.5	0.5	0.2					HT	0.25
N	0.0	0.0	0.0	0.1					BT	0.75
I	1.0	1.0	1.0	0.0	Cruise Spd. CL: 3.0 Restr. Arcs: 180L				ET	1.25
SPBR	—	—	—	—	Climb Spd.: 1.5 Blind Arcs: 30–				—	—
If speed ≥ 3.5, reduce power by 0.5. If speed ≥ 4.5, reduce power by 1.0.					Visibility: 6 Internal Fuel: 70					
					Size: +0 AtA Refuel: No					
					Vulnerability: +0 Ejection Seat: None					

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive	CL	1/2	DT			
Band	Ceil.	36	29	21	Speed	AB	AB	AB	Oth	Oth	
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.0 – 4.0	—	—	5.5	—	0.5	—	—	—	VH
HI	26–35	1.5 – 4.0	2.0 – 3.5	—	6.0	—	0.5	—	0.5	—	HI
MH	17–25	1.5 – 4.5	1.5 – 4.0	1.5 – 3.5	6.0	—	0.5	—	0.5	—	MH
ML	8–16	1.0 – 4.5	1.5 – 3.5	1.5 – 3.0	6.0	—	1.0	—	0.5	—	ML
LO	0–7	1.0 – 4.0	1.0 – 3.5	1.5 – 3.0	5.5	—	1.0	—	1.0	—	LO

<b>Sea Fury FB.11</b>					Crew: Pilot								
					<b>Maneuver DPs:</b>								
<b>Power APs/DPs:</b>					LR/DR	1.5							
					VR	1.5							
					<b>Turn DPs:</b>								
					CL	1/2	DT						
					TT	0.25	0.25	0.25					
					HT	0.25	0.75	0.75					
					BT	0.75	0.75	0.75					
					ET	1.25	—	—					
If speed $\geq$ 3.5, reduce power by 0.5. If speed $\geq$ 4.5, reduce power by 1.0.					Cruise Spd. CL: 3.0 Restr. Arcs: 180L								
					Climb Spd.: 1.5 Blind Arcs: 30–								
					Visibility: 6 Internal Fuel: 70								
					Size: +0 AtA Refuel: No								
					Vulnerability: +1 Ejection Seat: None								
<b>Speeds and Ceilings</b>					<b>Climb Capabilities</b>								
Alt. Band	Conf. Ceil.	CL 36	1/2 29	DT 21	Dive Speed	CL AB	1/2 Oth	DT AB	DT Oth				
EH+	46+	—	—	—	—	—	—	—	—	EH+			
VH	36–45	2.0 – 4.0	—	—	5.5	—	0.5	—	—	VH			
HI	26–35	1.5 – 4.0	2.0 – 3.5	—	6.0	—	0.5	—	0.5	HI			
MH	17–25	1.5 – 4.5	1.5 – 4.0	1.5 – 3.5	6.0	—	0.5	—	0.5	MH			
ML	8–16	1.0 – 4.5	1.5 – 3.5	1.5 – 3.0	6.0	—	1.0	—	0.5	ML			
LO	0–7	1.0 – 4.0	1.0 – 3.5	1.5 – 3.0	5.5	—	1.0	—	1.0	LO			
<b>Radar:</b> ECCM: Arcs: Search: Track: Lock-On:		—	<b>ECM:</b> RWR: DDS: DJM: AJM: BJM:	<b>Weapon Stations Diagram:</b>									
<b>Guns:</b> Four 20 mm Hispano V To Hit: 6/4/3 Ammunition: 5.5 Gunsight: TT+0/HT+1/BT+2 Ranging: — AtA/AtG: 5/6*		<b>Technology:</b> None		<b>Load Point Limits:</b> CL : < 3 1/2: < 5 <b>Weight Limit:</b> 3,400 DT : $\geq$ 5									
<b>Bomb System:</b> Manual				<b>Station</b> <b>Limit Allowed Loads</b> 1 and 4      1,000 BB 2 and 3      700 FT 5–7 and 8–10      200 RK									
<b>Notes:</b> 1. The Hawker Sea Fury FB.11 is a carrier-capable day fighter and fighter-bomber. The FB.11 is a development of the original F.10 fighter with additional armor and underwing weapon stations to better carry out air-to-ground missions. 2. High transonic drag (HTD). Low bleed rate (LBR).										<b>Load Notes:</b> 1. Either stations 1 and 4 or stations 5 to 10 can be used. 2. Stations 2 and 3 can each carry a 90 gal (400L) FT. 3. Stations 5 to 10 can each carry two RP-3 RKS.			
<b>VPs:</b> 7/5/2/1								v3.0000000 0000-00T00:00:00					

<b>Sea Fury T.20</b>					Crew: Pilot and Observer															
					<b>Maneuver DPs:</b>															
<b>Power APs/DPs:</b> ⊙					LR/DR 1.5 VR 1.5															
FT	2.0	1.5	1.0	0.5																
HT	0.5	0.5	0.5	0.2																
N	0.0	0.0	0.0	0.1																
I	1.0	1.0	1.0	0.0																
SPBR	—	—	—	—																
If speed ≥ 3.5, reduce power by 0.5. If speed ≥ 4.5, reduce power by 1.0.					Cruise Spd. CL: 3.0 Restr. Arcs: 180L Climb Spd.: 1.5 Blind Arcs: 30– Visibility: 6 Internal Fuel: 70 Size: +0 AtA Refuel: No Vulnerability: +0 Ejection Seat: None															
<b>Speeds and Ceilings</b>																				
Alt. Band	Conf. Ceil.	CL 36	1/2 29	DT 21	Dive Speed	CL AB	1/2 Oth	CL AB	1/2 Oth	DT AB	DT Oth									
EH+	46+	—	—	—	—	—	—	—	—	—	—	EH+								
VH	36–45	2.0 – 4.0	—	—	5.5	—	0.5	—	—	—	—	VH								
HI	26–35	1.5 – 4.0	2.0 – 3.5	—	6.0	—	0.5	—	0.5	—	—	HI								
MH	17–25	1.5 – 4.5	1.5 – 4.0	1.5 – 3.5	6.0	—	0.5	—	0.5	—	0.5	MH								
ML	8–16	1.0 – 4.5	1.5 – 3.5	1.5 – 3.0	6.0	—	1.0	—	0.5	—	0.5	ML								
LO	0–7	1.0 – 4.0	1.0 – 3.5	1.5 – 3.0	5.5	—	1.0	—	1.0	—	1.0	LO								
<b>Radar:</b> —				<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>															
ECCM:	—			RWR: —																
Arcs:	—			DDS: —																
Search:	—			DJM: —																
Track:	—			AJM: —																
Lock-On:	—			BJM: —																
<b>Guns:</b> Two 20 mm Hispano V				<b>Technology:</b> None	<b>Load Point Limits:</b> CL : < 3 1/2: < 5 <b>Weight Limit:</b> 3,400 DT : ≥ 5															
To Hit:	6/4/3			<b>Station</b> Limit Allowed Loads																
Ammunition:	5.5			1 and 4	1,000 BB															
Gunsight:	TT+0/HT+1/BT+2			2 and 3	700 FT															
Ranging:	—			5–7 and 8–10	200 RK															
AtA/AtG:	4/5*			<b>Load Notes:</b>																
<b>Bomb System:</b> Manual	1. Either stations 1 and 4 or stations 5 to 10 can be used. 2. Stations 2 and 3 can each carry a 90 gal (400L) FT. 3. Stations 5 to 10 can each carry two RP-3 RKS.																			
<b>Notes:</b>	1. The Hawker Sea Fury T.20 is a carrier-capable trainer. 2. High transonic drag (HTD). Low bleed rate (LBR).																			
<b>VPs:</b> 6/4/2/1										v3.0000000 0000-00T00:00:00										

<b>Sea Fury F.50</b>					<b>Crew:</b> Pilot <b>Maneuver DPs:</b> LR/DR 1.5 VR 1.5																																														
<b>Power APs/DPs:</b> ⊙ <table> <tr><td>CL</td><td>1/2</td><td>DT</td><td>Fuel</td></tr> <tr><td>FT</td><td>2.0</td><td>1.5</td><td>1.0</td></tr> <tr><td>HT</td><td>0.5</td><td>0.5</td><td>0.5</td></tr> <tr><td>N</td><td>0.0</td><td>0.0</td><td>0.0</td></tr> <tr><td>I</td><td>1.0</td><td>1.0</td><td>1.0</td></tr> <tr><td>SPBR</td><td>—</td><td>—</td><td>—</td></tr> </table>					CL	1/2	DT	Fuel	FT	2.0	1.5	1.0	HT	0.5	0.5	0.5	N	0.0	0.0	0.0	I	1.0	1.0	1.0	SPBR	—	—	—	<b>Turn DPs:</b> <table> <tr><td>CL</td><td>1/2</td><td>DT</td></tr> <tr><td>TT</td><td>0.25</td><td>0.25</td></tr> <tr><td>HT</td><td>0.25</td><td>0.75</td></tr> <tr><td>BT</td><td>0.75</td><td>0.75</td></tr> <tr><td>ET</td><td>1.25</td><td>—</td></tr> </table>								CL	1/2	DT	TT	0.25	0.25	HT	0.25	0.75	BT	0.75	0.75	ET	1.25	—
CL	1/2	DT	Fuel																																																
FT	2.0	1.5	1.0																																																
HT	0.5	0.5	0.5																																																
N	0.0	0.0	0.0																																																
I	1.0	1.0	1.0																																																
SPBR	—	—	—																																																
CL	1/2	DT																																																	
TT	0.25	0.25																																																	
HT	0.25	0.75																																																	
BT	0.75	0.75																																																	
ET	1.25	—																																																	
If speed ≥ 3.5, reduce power by 0.5. If speed ≥ 4.5, reduce power by 1.0.					Cruise Spd. CL: 3.0 Restr. Arcs: 180L Climb Spd.: 1.5 Blind Arcs: 30– Visibility: 6 Internal Fuel: 70 Size: +0 AtA Refuel: No Vulnerability: +0 Ejection Seat: None																																														
<b>Speeds and Ceilings</b> <b>Climb Capabilities</b>																																																			
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth																																								
Band	Ceil.	36	29	21																																															
EH+	46+	—	—	—	—	—	—	—	—	—	—	EH+																																							
VH	36–45	2.0 – 4.0	—	—	5.5	—	0.5	—	—	—	—	VH																																							
HI	26–35	1.5 – 4.0	2.0 – 3.5	—	6.0	—	0.5	—	0.5	—	—	HI																																							
MH	17–25	1.5 – 4.5	1.5 – 4.0	1.5 – 3.5	6.0	—	0.5	—	0.5	—	0.5	MH																																							
ML	8–16	1.0 – 4.5	1.5 – 3.5	1.5 – 3.0	6.0	—	1.0	—	0.5	—	0.5	ML																																							
LO	0–7	1.0 – 4.0	1.0 – 3.5	1.5 – 3.0	5.5	—	1.0	—	1.0	—	1.0	LO																																							
<b>Radar:</b> — ECCM: — Arcs: — Search: — Track: — Lock-On: —				<b>ECM:</b> IFF RWR: — DDS: — DJM: — AJM: — BJM: —	<b>Weapon Stations Diagram:</b>																																														
<b>Guns:</b> Four 20 mm Hispano V To Hit: 6/4/3 Ammunition: 5.5 Gunsight: TT+0/HT+1/BT+2 Ranging: — AtA/AtG: 5/6*				<b>Technology:</b> None	<b>Load Point Limits:</b> CL : < 3 1/2: < 5 <b>Weight Limit:</b> 3,400 DT : ≥ 5																																														
<b>Bomb System:</b> Manual					<b>Station</b> <b>Limit</b> <b>Allowed Loads</b> 1 and 2      700 FT																																														
<b>Notes:</b> 1. The Hawker Sea Fury F.50 is a carrier-capable day fighter. It is an export version of the F.10. 2. High transonic drag (HTD). Low bleed rate (LBR).																																																			
<b>VPs:</b> 6/4/2/1										v3.0000000	0000-00-00T00:00:00																																								

<b>Sea Fury FB.50</b>									<b>Crew:</b> Pilot
<b>Power APs/DPs:</b> ⊙									<b>Maneuver DPs:</b>
CL 1/2 DT Fuel									LR/DR 1.5
FT 2.0 1.5 1.0 0.5									VR 1.5
HT 0.5 0.5 0.5 0.2									
N 0.0 0.0 0.0 0.1									
I 1.0 1.0 1.0 0.0									
SPBR — — — —									
If speed ≥ 3.5, reduce power by 0.5. If speed ≥ 4.5, reduce power by 1.0.									
</									

<b>Sea Fury FB.60</b>									<b>Crew:</b> Pilot
<b>Power APs/DPs:</b> ⊙									<b>Maneuver DPs:</b>
CL 1/2 DT Fuel									LR/DR 1.5
FT 2.0 1.5 1.0 0.5									VR 1.5
HT 0.5 0.5 0.5 0.2									
N 0.0 0.0 0.0 0.1									
I 1.0 1.0 1.0 0.0									
SPBR — — — —									
Cruise Spd. CL: 3.0 Restr. Arcs: 180L									
Climb Spd.: 1.5 Blind Arcs: 30–									
Visibility: 6 Internal Fuel: 70									
Size: +0 AtA Refuel: No									
Vulnerability: +1 Ejection Seat: None									

<b>Speeds and Ceilings</b>					<b>Climb Capabilities</b>				
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL AB	1/2 AB	DT AB	
Band	Ceil.	36	29	21		Oth	Oth	Oth	
EH+	46+	—	—	—	—	—	—	—	EH+
VH	36–45	2.0 – 4.0	—	—	5.5	—	0.5	—	VH
HI	26–35	1.5 – 4.0	2.0 – 3.5	—	6.0	—	0.5	—	HI
MH	17–25	1.5 – 4.5	1.5 – 4.0	1.5 – 3.5	6.0	—	0.5	—	MH
ML	8–16	1.0 – 4.5	1.5 – 3.5	1.5 – 3.0	6.0	—	1.0	—	0.5
LO	0–7	1.0 – 4.0	1.0 – 3.5	1.5 – 3.0	5.5	—	1.0	—	1.0

<b>Radar:</b> —	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>													
ECCM: —	RWR: —														
Arcs: —	DDS: —														
Search: —	DJM: —														
Track: —	AJM: —														
Lock-On: —	BJM: —														
<b>Guns:</b> Four 20 mm Hispano V	<b>Technology:</b> None														
To Hit: 6/4/3															
Ammunition: 5.5															
Gunsight: TT+0/HT+1/BT+2															
Ranging: —															
AtA/AtG: 5/6*															
<b>Bomb System:</b> Manual															
<b>Notes:</b>															
1. The Hawker Sea Fury FB.60 is a day fighter and fighter-bomber. It is an export version of the FB.11 with carrier-specific equipment removed. 2. High transonic drag (HTD). Low bleed rate (LBR).															
					<b>Load Point Limits:</b>	CL : < 3									
						1/2: < 5									
					<b>Weight Limit:</b> 3,400	DT : ≥ 5									
					<b>Station</b>	<b>Limit Allowed Loads</b>									
					1 and 4	1,000 BB									
					2 and 3	700 FT									
					5–7 and 8–10	200 RK									
					<b>Load Notes:</b>										
					1. Either stations 1 and 4 or stations 5 to 10 can be used. 2. Stations 2 and 3 can each carry a 90 gal (400L) FT. 3. Stations 5 to 10 can each carry two RP-3 RKS.										

Sea Fury T.61									Crew: Pilot and Observer			
									Maneuver DPs:			
									LR/DR	1.5		
									VR	1.5		
<b>Power APs/DPs:</b> ⊙									<b>Turn DPs:</b>			
	CL	1/2	DT	Fuel					CL	1/2	DT	
FT	2.0	1.5	1.0	0.5					TT	0.25	0.25	0.25
HT	0.5	0.5	0.5	0.2					HT	0.25	0.75	0.75
N	0.0	0.0	0.0	0.1					BT	0.75	0.75	0.75
I	1.0	1.0	1.0	0.0	Cruise Spd. CL:	3.0	Restr. Arcs:	180L	ET	1.25	—	—
SPBR	—	—	—	—	Climb Spd.:	1.5	Blind Arcs:	30—				
If speed ≥ 3.5, reduce power by 0.5. If speed ≥ 4.5, reduce power by 1.0.					Visibility:	6	Internal Fuel:	70				
					Size:	+0	AtA Refuel:	No				
					Vulnerability:	+0	Ejection Seat:	None				

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive	CL	1/2	DT			
Band	Ceil.	36	29	21	Speed	AB	AB	AB	Oth	Oth	
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.0 – 4.0	—	—	5.5	—	0.5	—	—	—	VH
HI	26–35	1.5 – 4.0	2.0 – 3.5	—	6.0	—	0.5	—	0.5	—	HI
MH	17–25	1.5 – 4.5	1.5 – 4.0	1.5 – 3.5	6.0	—	0.5	—	0.5	—	MH
ML	8–16	1.0 – 4.5	1.5 – 3.5	1.5 – 3.0	6.0	—	1.0	—	0.5	—	ML
LO	0–7	1.0 – 4.0	1.0 – 3.5	1.5 – 3.0	5.5	—	1.0	—	1.0	—	LO

<b>Radar:</b>	—	<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>
ECCM:	—	RWR:	—	
Arcs:	—	DDS:	—	
Search:	—	DJM:	—	
Track:	—	AJM:	—	
Lock-On:	—	BJM:	—	
<b>Guns:</b>	Two 20 mm Hispano V	<b>Technology:</b>		<b>Load Point Limits:</b>
To Hit:	6/4/3	None		CL : < 3
Ammunition:	5.5			1/2: < 5
Gunsight:	TT+0/HT+1/BT+2			DT : ≥ 5
Ranging:	—			
AtA/AtG:	4/5*			
<b>Bomb System:</b>	Manual			<b>Weight Limit:</b> 3,400
<b>Notes:</b>	<p>1. The Hawker Sea Fury T.61 is a trainer. It is a export version of the T.20 with carrier-specific equipment removed.</p> <p>2. High transonic drag (HTD). Low bleed rate (LBR).</p>			
				<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>
				1 and 4      1,000 BB
				2 and 3      700 FT
				5–7 and 8–10      200 RK
				<b>Load Notes:</b>
				<ol style="list-style-type: none"> <li>Either stations 1 and 4 or stations 5 to 10 can be used.</li> <li>Stations 2 and 3 can each carry a 90 gal (400L) FT.</li> <li>Stations 5 to 10 can each carry two RP-3 RRs.</li> </ol>
				<b>VPs:</b> 6/4/2/1
				v3 0000000 0000-00-00T00:00:00

<b>Fury</b>									<b>Crew:</b> Pilot			
									<b>Maneuver DPs:</b>			
									LR/DR	1.5		
									VR	1.5		
<b>Power APs/DPs:</b> ⊙									<b>Turn DPs:</b>			
	CL	1/2	DT	Fuel					CL	1/2	DT	
FT	2.0	1.5	1.0	0.5					TT	0.25	0.25	0.25
HT	0.5	0.5	0.5	0.2					HT	0.25	0.75	0.75
N	0.0	0.0	0.0	0.1					BT	0.75	0.75	0.75
I	1.0	1.0	1.0	0.0	Cruise Spd. CL: 3.0 Restr. Arcs: 180L				ET	1.25	—	—
SPBR	—	—	—	—	Climb Spd.: 1.5 Blind Arcs: 30–							
If speed ≥ 3.5, reduce power by 0.5. If speed ≥ 4.5, reduce power by 1.0.					Visibility: 6 Internal Fuel: 70							
					Size: +0 AtA Refuel: No							
					Vulnerability: +1 Ejection Seat: None							

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL AB	1/2 AB	DT AB			
Band	Ceil.	36	29	21		Oth	Oth	Oth			
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.0 – 4.0	—	—	5.5	—	0.5	—	—	—	VH
HI	26–35	1.5 – 4.0	2.0 – 3.5	—	6.0	—	0.5	—	0.5	—	HI
MH	17–25	1.5 – 4.5	1.5 – 4.0	1.5 – 3.5	6.0	—	0.5	—	0.5	—	MH
ML	8–16	1.0 – 4.5	1.5 – 3.5	1.5 – 3.0	6.0	—	1.0	—	0.5	—	ML
LO	0–7	1.0 – 4.0	1.0 – 3.5	1.5 – 3.0	5.5	—	1.0	—	1.0	—	LO

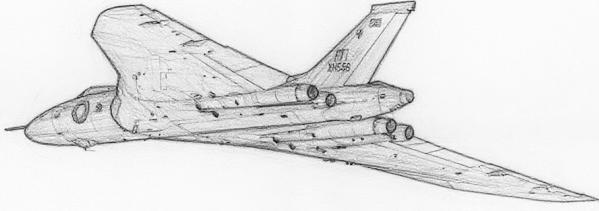
Radar:	—	ECM:	IFF	<b>Weapon Stations Diagram:</b>
ECCM:	—	RWR:	—	
Arcs:	—	DDS:	—	
Search:	—	DJM:	—	
Track:	—	AJM:	—	
Lock-On:	—	BJM:	—	
<b>Guns:</b>	Four 20 mm Hispano V	<b>Technology:</b>		<b>Load Point Limits:</b>
To Hit:	6/4/3	None		CL : < 3
Ammunition:	5.5			1/2: < 5
Gunsight:	TT+0/HT+1/BT+2			DT : ≥ 5
Ranging:	—			
AtA/AtG:	5/6*			
<b>Bomb System:</b>	Manual			<b>Weight Limit:</b> 3,400
<b>Notes:</b>	<p>1. The Hawker Fury is a day fighter and fighter-bomber. It is an export version of the FB.11 with carrier-specific equipment removed.</p> <p>2. High transonic drag (HTD). Low bleed rate (LBR).</p>			
				<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>
				1 and 4      1,000 BB
				2 and 3      700 FT
				5–7 and 8–10      200 RK
				<b>Load Notes:</b>
				1. Either stations 1 and 4 or stations 5 to 10 can be used.
				2. Stations 2 and 3 can each carry a 90 gal (400L) FT.
				3. Stations 5 to 10 can each carry two RP-3 RRs.
				<b>VPs:</b> 7/5/2/1
				v3 0000000 0000-00-00T00:00:00

<b>Fury Trainer</b>									<b>Crew:</b> Pilot and Observer		
									<b>Maneuver DPs:</b>		
									LR/DR	1.5	
									VR	1.5	
<b>Power APs/DPs:</b>									<b>Turn DPs:</b>		
									CL	1/2	DT
FT	2.0	1.5	1.0	0.5					TT	0.25	0.25
HT	0.5	0.5	0.5	0.2					HT	0.25	0.75
N	0.0	0.0	0.0	0.1					BT	0.75	0.75
I	1.0	1.0	1.0	0.0	Cruise Spd. CL: 3.0 Restr. Arcs: 180L				ET	1.25	—
SPBR	—	—	—	—	Climb Spd.: 1.5 Blind Arcs: 30–						
If speed ≥ 3.5, reduce power by 0.5. If speed ≥ 4.5, reduce power by 1.0.					Visibility: 6 Internal Fuel: 70						
					Size: +0 AtA Refuel: No						
					Vulnerability: +0 Ejection Seat: None						

Speeds and Ceilings						Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 36	1/2 29	DT 21	Dive Speed	CL AB	1/2 Oth	CL AB	1/2 Oth	DT AB	DT Oth
EH+	46+	—	—	—	—	—	—	—	—	—	—
VH	36–45	2.0 – 4.0	—	—	5.5	—	0.5	—	—	—	—
HI	26–35	1.5 – 4.0	2.0 – 3.5	—	6.0	—	0.5	—	0.5	—	—
MH	17–25	1.5 – 4.5	1.5 – 4.0	1.5 – 3.5	6.0	—	0.5	—	0.5	—	0.5
ML	8–16	1.0 – 4.5	1.5 – 3.5	1.5 – 3.0	6.0	—	1.0	—	0.5	—	0.5
LO	0–7	1.0 – 4.0	1.0 – 3.5	1.5 – 3.0	5.5	—	1.0	—	1.0	—	1.0

<b>Radar:</b>	—	<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>
ECCM:	—	RWR:	—	
Arcs:	—	DDS:	—	
Search:	—	DJM:	—	
Track:	—	AJM:	—	
Lock-On:	—	BJM:	—	
<b>Guns:</b>	Two 20 mm Hispano V	<b>Technology:</b>		<b>Load Point Limits:</b>
To Hit:	6/4/3	None		CL : < 3
Ammunition:	5.5			1/2: < 5
Gunsight:	TT+0/HT+1/BT+2			DT : ≥ 5
Ranging:	—			
AtA/AtG:	4/5*			
<b>Bomb System:</b>	Manual			<b>Weight Limit:</b> 3,400
<b>Notes:</b>	<p>1. The Hawker Fury Trainer is a trainer. It is a export version of the T.20 with carrier-specific equipment removed.</p> <p>2. High transonic drag (HTD). Low bleed rate (LBR).</p>			
				<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>
				1 and 4      1,000 BB
				2 and 3      700 FT
				5–7 and 8–10      200 RK
				<b>Load Notes:</b>
				1. Either stations 1 and 4 or stations 5 to 10 can be used.
				2. Stations 2 and 3 can each carry a 90 gal (400L) FT.
				3. Stations 5 to 10 can each carry two RP-3 RRs.
				<b>VPs:</b> 6/4/2/1
				v3 0000000 0000-00-00T00:00:00

# Avro Vulcan



The Avro Vulcan was a strategic bomber. It featured a tail-less delta-wing configuration designed for high-speed subsonic flight at high altitude, and was the last and most advanced of the V-bombers.

## Versions

### Vulcan B.1

The initial B.1 version had the Rolls-Royce Olympus 101 engine (12,000 lbf) and lacked ECM systems, tail-warning radar, and in-flight refueling capability. It entered service with the RAF in 1956. Many were converted to B.1As in 1959 to 1963 and the remainder retired in 1966.

### Vulcan B.1A

The B.1A version was an upgrade of the B.1 with a more powerful Rolls-Royce Olympus 104 engines (13,500 lbf), ECM systems and a tail-warning radar similar to those in the B.2, and in-flight refueling capability. The first modified aircraft became available in 1960 and all were retired in 1968.

### Vulcan B.2

The B.2 version was built with a larger wing to accommodate the Olympus 200/300-series engine (17,000 to 20,000 lbf), ECM systems and a tail-warning radar in an extended tail cone, and in-flight refueling capability. It served with the RAF from 1960 to 1982.

Some B.2s were modified to permit the carriage of the Blue Steel nuclear stand-off missile semi-recessed in the bomb bay and the cancelled Skybolt air-launched nuclear ballistic missile on under-wing station. TFR was fitted starting in 1966 and an improved RWR the mid 1970s.

In 1982, for the *Black Buck* missions in the South Atlantic War, several B.2s were modified to permit the carriage of

Shrike ARMs or an ALQ-101D ECM pod on the underwing pylons originally installed for Skybolt.

### Vulcan B.2(MRR)

Several B.2s were converted to maritime radar-reconnaissance aircraft (MRR) in 1973 and served until 1982.

### Vulcan K.2

The South Atlantic War consumed much of the remaining fatigue life of the RAF's fleet of Victor tankers. To compensate, several Vulcan B.2s were converted to single-point tankers and designated K.2. They served from 1982 to 1984.

### Vulcan F.3

The F.3 is a hypothetical long-range interceptor. At least two options were considered in the 1970s: one with twelve AIM-54 Phoenix missiles and another with ten air-launched variants of the Sea Dart missile.

## Armament and Stores

The bomb bay could accommodate twenty-one 1,000 lb bombs, one nuclear bomb (Blue Danube, Violet Club, Mark 5, Yellow Sun, Red Beard, and WE.177B), or (in modified B.2s from 1960), or one Blue Steel nuclear stand-off missile. The B.2s modified for the *Black Buck* missions could also carry AGM-45 Shrike ARMs on under-wing stations.

## Combat

Vulcans only saw combat in the *Black Buck* missions in the South Atlantic War.

## ADCs

ADCs are provided for:

- Vulcan B.2
- Vulcan B.2(MRR)
- Vulcan F.3 (Phoenix)
- Vulcan F.3 (Sea Dart)

## Photo Credit

- Avro Vulcan: John5199 (CC BY 2.0)

<b>Vulcan B.2</b>								<b>Crew:</b> Pilot, Copilot, Navigator, Radar Navigator, and Air Electronics Officer				
								<b>Maneuver DPs:</b>				
								LR/DR —				
								VR —				
								<b>Turn DPs:</b>				
								CL 1/2 DT				
								TT 1.0 1.5 1.5				
								HT 1.5 2.0 2.5				
								BT — — —				
								ET — — —				
								No rolling maneuvers allowed.				
Speeds and Ceilings								Climb Capabilities				
Alt. Band	Conf. Ceil.	CL 64	1/2 61	DT 59	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth				
EH+	46+	3.5 – 6.5	3.5 – 6.0	4.0 – 6.0	6.5	— 0.5	— 0.5	— 0.5 EH+				
VH	36–45	3.0 – 6.5	3.0 – 6.0	3.5 – 6.0	6.5	— 1.0	— 1.0	— 0.5 VH				
HI	26–35	2.5 – 6.5	2.5 – 6.0	3.0 – 6.0	6.5	— 1.0	— 1.0	— 1.0 HI				
MH	17–25	2.0 – 6.0	2.0 – 5.5	3.0 – 5.5	6.5	— 1.0	— 1.0	— 1.0 MH				
ML	8–16	1.5 – 6.0	2.0 – 5.5	2.5 – 5.5	7.0	— 1.5	— 1.0	— 1.0 ML				
LO	0–7	1.0 – 6.0	1.5 – 5.5	2.0 – 5.5	7.0	— 1.5	— 1.5	— 1.5 LO				
<b>Radar:</b> H2S Mk.9A			<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>								
ECCM:	2	RWR:	B									
Arcs:	150+	DDS:	A									
Search:	Gr. Nav. (60)	DJM:	B2									
Track:	Gr. Attack (40)	AJM:	B2									
Lock-On:	6	BJM:	B2									
<b>Guns:</b> —		<b>Technology:</b> TFR-A		<b>Load Point Limits:</b> CL : <25 1/2: <44								
To Hit:	—			<b>Weight Limit:</b> 42,000 DT : ≥44								
Ammunition:	—			<b>Station</b>	<b>Limit Allowed Loads</b>							
Gunsight:	—			1 and 3	1,000 ARM MDR EP							
Ranging:	—			2	28,000 BB NAM FT							
AtA/AtG:	—			<b>Load Notes:</b>								
<b>Bomb System:</b> Ballistic				1. Stations 1 and 3 are the under-wing stations. From 1982, each may carry two Shrike ARM or one ALQ-101D EP. 2. Station 2 is the internal bomb bay. Load options include (a) twenty-one 1000 lb BB in three groups of seven; (b) two auxiliary fuel tanks; (c) seven 1000 lb bombs and one auxiliary fuel tank; (d) one Blue Steel NAM. All bombs must be the same type and low-drag. 3. An auxiliary fuel tank has a weight of 14000, 14 load points, and 700 fuel points. 4. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 1200 fuel points (24 load points).								
<b>Notes:</b>												
1. The Avro Vulcan B.2 is a strategic conventional and nuclear bomber. 2. High transonic drag (HTD). Low roll rate (LRR). 3. DDS capacity is 60 CH. 4. Tail Radar. Equiped with a Red Steer tail radar with ECCM of 2, arc of 60–, search of 40-8, track of 18-6, and lock-on of 7. 5. Only the pilot and copilot have ejection seats. The other crew members can bail out three game turns after declaring their intent to do so. 6. TFR from 1965.												
<b>VPs:</b> 40/27/13/7								v3.0000000 0000-00T00:00:00				

<b>Vulcan B.2(MRR)</b>								<b>Crew:</b> Pilot, Copilot, Navigator, Radar Navigator, and Air Electronics Officer										
								<b>Maneuver DPs:</b>										
<b>Power APs/DPs:</b> OOOO								LR/DR	—									
								VR	—									
								<b>Turn DPs:</b>										
								CL	1/2	DT								
								TT	1.0	1.5	1.5							
								HT	1.5	2.0	2.5							
								BT	—	—	—							
								ET	—	—	—							
								No rolling maneuvers allowed.										
								<b>Speeds and Ceilings</b>										
Alt. Band	Conf. Ceil.	CL 64	1/2 61	DT 59	Dive Speed	CL AB	1/2 AB	DT AB	1/2 Oth	DT Oth								
EH+	46+	3.5 – 6.5	3.5 – 6.0	4.0 – 6.0	6.5	—	0.5	—	0.5	—	0.5							
VH	36–45	3.0 – 6.5	3.0 – 6.0	3.5 – 6.0	6.5	—	1.0	—	1.0	—	0.5							
HI	26–35	2.5 – 6.5	2.5 – 6.0	3.0 – 6.0	6.5	—	1.0	—	1.0	—	1.0							
MH	17–25	2.0 – 6.0	2.0 – 5.5	3.0 – 5.5	6.5	—	1.0	—	1.0	—	1.0							
ML	8–16	1.5 – 6.0	2.0 – 5.5	2.5 – 5.5	7.0	—	1.5	—	1.0	—	1.0							
LO	0–7	1.0 – 6.0	1.5 – 5.5	2.0 – 5.5	7.0	—	1.5	—	1.5	—	1.5							
<b>Radar:</b> ECCM: Arcs: Search: Track: Lock-On:	H2S Mk.9A 2 150+ Gr. Nav. (60) Gr. Attack (40) 6		<b>ECM:</b> RWR: DDS: DJM: AJM: BJM:	IFF B A B2 B2 B2		<b>Weapon Stations Diagram:</b>												
<b>Guns:</b> To Hit: Ammunition: Gunsight: Ranging: AtA/AtG:	— — — — —		<b>Technology:</b> None	<b>Load Point Limits:</b> CL : <25 1/2: <44 <b>Weight Limit:</b> 42,000 DT : ≥44														
<b>Bomb System:</b> Notes:	Ballistic			<b>Station</b>	<b>Limit</b>	<b>Allowed Loads</b>												
				1 and 3	1,000	ARM MDR EP												
				2	28,000	BB NAM FT												
				<b>Load Notes:</b>														
				1. Stations 1 and 3 are the under-wing stations. From 1982, each may carry two Shrike ARM or one ALQ-101D EP. 2. Station 2 is the internal bomb bay. Load options include (a) twenty-one 1000 lb BB in three groups of seven; (b) two auxiliary fuel tanks; (c) seven 1000 lb bombs and one auxiliary fuel tank; (d) one Blue Steel NAM. All bombs must be the same type and low-drag. 3. An auxiliary fuel tank has a weight of 14000, 14 load points, and 700 fuel points. 4. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 1200 fuel points (24 load points).														
								<b>VPs:</b> 40/27/13/7	v3.0000000 0000-00T00:00:00									

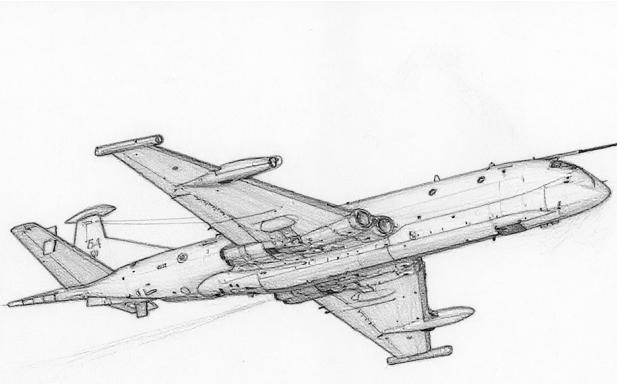
<b>Vulcan F.3 (Phoenix)</b>					<b>Crew:</b> Pilot, Copilot, Navigator, Weapons System Officer, and Air Electronics Officer																
					<b>Maneuver DPs:</b>																
<b>Power APs/DPs:</b> OOOO					LR/DR —																
					VR —																
					<b>Turn DPs:</b>																
					CL 1/2 DT																
AB	—	—	—	—	TT	1.0	1.5	1.5													
M	2.0	1.5	1.5	8.0	HT	1.5	2.0	2.5													
N	0.0	0.0	0.0	4.0	BT	—	—	—													
I	1.0	1.0	1.0	0.0	ET	—	—	—													
SPBR	1.0	2.0	2.0	—	No rolling maneuvers allowed.																
					Cruise Spd. CL: 5.0 Restr. Arcs: -																
					Climb Spd.: 3.5 Blind Arcs: 60-																
					Visibility: 12 Internal Fuel: 3600																
					Size: -2 AtA Refuel: Yes																
					Vulnerability: +2 Ejection Seat: Std																
<b>Speeds and Ceilings</b>																					
Alt. Band	Conf. Ceil.	CL 64	1/2 61	DT 59	Dive Speed	CL AB	Oth	1/2 AB	Oth	DT AB	Oth										
EH+	46+	3.5 – 6.5	3.5 – 6.0	4.0 – 6.0	6.5	—	0.5	—	0.5	—	0.5	EH+									
VH	36–45	3.0 – 6.5	3.0 – 6.0	3.5 – 6.0	6.5	—	1.0	—	1.0	—	0.5	VH									
HI	26–35	2.5 – 6.5	2.5 – 6.0	3.0 – 6.0	6.5	—	1.0	—	1.0	—	1.0	HI									
MH	17–25	2.0 – 6.0	2.0 – 5.5	3.0 – 5.5	6.5	—	1.0	—	1.0	—	1.0	MH									
ML	8–16	1.5 – 6.0	2.0 – 5.5	2.5 – 5.5	7.0	—	1.5	—	1.0	—	1.0	ML									
LO	0–7	1.0 – 6.0	1.5 – 5.5	2.0 – 5.5	7.0	—	1.5	—	1.5	—	1.5	LO									
<b>Radar:</b> AWG-9				<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>															
ECCM:	3			RWR:	B																
Arcs:	150+			DDS:	A																
Search:	500–60			DJM:	B2																
Track:	360–60			AJM:	B2																
Lock-On:	7			BJM:	B2																
<b>Guns:</b> —				<b>Technology:</b>				<b>Load Point Limits:</b>													
To Hit:	—			Look-Down Radar, Track-While-Scan (18), and Multi-Target (6)				CL : <25													
Ammunition:	—							1/2: <44													
Gunsight:	—							<b>Weight Limit:</b> 42,000													
Ranging:	—							DT : ≥44													
AtA/AtG:	—																				
<b>Bomb System:</b> Ballistic								<b>Station</b> Limit Allowed Loads													
								1–3 and 5–7 2,000 AHM													
								4 28,000 FT													
<b>Notes:</b>																					
1. The Avro Vulcan F.3A is a long-range interceptor. This variant is equipped with AIM-54 Phoenix missiles and the AWG-9 radar from the F-14A.																					
2. High transonic drag (HTD). Low roll rate (LRR).																					
3. DDS capacity is 60 CH.																					
4. Only the pilot and copilot have ejection seats. The other crew members can bail out three game turns after declaring their intent to do so.																					
<b>VPs:</b> 40/27/13/7										v3.0000000 0000-00-00T00:00:00											

<b>Vulcan F.3 (Sea Dart)</b>					<b>Crew:</b> Pilot, Copilot, Navigator, Weapons System Officer, and Air Electronics Officer
<b>Power APs/DPs:</b> OOOO					<b>Maneuver DPs:</b>
CL 1/2 DT Fuel					LR/DR — VR —
AB — — — — M 2.0 1.5 1.5 8.0 N 0.0 0.0 0.0 4.0 I 1.0 1.0 1.0 0.0 SPBR 1.0 2.0 2.0 —					<b>Turn DPs:</b> CL 1/2 DT TT 1.0 1.5 1.5 HT 1.5 2.0 2.5 BT — — — ET — — —
Cruise Spd. CL: 5.0 Restr. Arcs: - Climb Spd.: 3.5 Blind Arcs: 60– Visibility: 12 Internal Fuel: 3600 Size: -2 AtA Refuel: Yes Vulnerability: +2 Ejection Seat: Std					No rolling maneuvers allowed.

Speeds and Ceilings				Climb Capabilities							
Alt. Band	Conf. Ceil.	CL 64	1/2 61	DT 59	Dive Speed	CL AB	Oth	1/2 AB	Oth	DT AB	Oth
EH+	46+	3.5 – 6.5	3.5 – 6.0	4.0 – 6.0	6.5	—	0.5	—	0.5	—	0.5
VH	36–45	3.0 – 6.5	3.0 – 6.0	3.5 – 6.0	6.5	—	1.0	—	1.0	—	0.5
HI	26–35	2.5 – 6.5	2.5 – 6.0	3.0 – 6.0	6.5	—	1.0	—	1.0	—	1.0
MH	17–25	2.0 – 6.0	2.0 – 5.5	3.0 – 5.5	6.5	—	1.0	—	1.0	—	1.0
ML	8–16	1.5 – 6.0	2.0 – 5.5	2.5 – 5.5	7.0	—	1.5	—	1.0	—	1.0
LO	0–7	1.0 – 6.0	1.5 – 5.5	2.0 – 5.5	7.0	—	1.5	—	1.5	—	1.5

<b>Radar:</b> Fox Finder	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>
ECCM: 2	RWR: B	
Arcs: 150+	DDS: A	
Search: 300–40	DJM: B2	
Track: 300–30	AJM: B2	
Lock-On: 7	BJM: B2	
<b>Guns:</b> —	<b>Technology:</b> Look-Down Radar and Track-While-Scan (6)	<b>Load Point Limits:</b> CL : <25 1/2: <44 <b>Weight Limit:</b> 42,000 DT : ≥44
To Hit: —		<b>Station</b> Limit Allowed Loads
Ammunition: —		1 and 7 1,000 RHM
Gunsight: —		2–3 and 5–6 2,000 RHM
Ranging: —		4 28,000 FT
AtA/AtG: —		<b>Load Notes:</b>
<b>Bomb System:</b> Ballistic		1. Stations 1 to 3 and 5 to 7 are underwing stations. Stations 1 and 7 may each carry one Sea Dart RHM and the others each may carry two Sea Dark RHMs. 2. Station 4 is the internal bomb bay. It may carry two auxiliary fuel tanks. 3. An auxiliary fuel tank has a weight of 14000, 14 load points, and 700 fuel points. 4. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points.
<b>Notes:</b>		
1. The Avro Vulcan F.3A is a long-range interceptor. This variant is equipped with air-launched Sea Dart missiles and an early version of the Fox Hunter radar. 2. High transonic drag (HTD). Low roll rate (LRR). 3. DDS capacity is 60 CH. 4. Only the pilot and copilot have ejection seats. The other crew members can bail out three game turns after declaring their intent to do so.		
		<b>VPs:</b> 40/27/13/7
		v3.0000000 0000-00T00:00:00

# Hawker Siddeley Nimrod



The Hawker Siddeley Nimrod is a maritime patrol and signals intelligence aircraft. It was developed from the Comet jet airliner, and this line thus holds the distinction of being both the first jet airliner and the first jet maritime patrol aircraft.

## Versions

### Nimrod MR.1

The initial version was the MR.1 maritime patrol aircraft. The airframe of the MR.1 was developed from the Comet 4 jet airliner, with the addition of a large unpressurized pannier under the fuselage for sensors and weapons and the replacement of the original Rolls-Royce Avon turbojets with Rolls-Royce Spey turbofans to give longer endurance. The mission components, and in particular the ASV Mk 21 radar, were largely recycled from the Shackleton MR.3. The MR.1 entered service with the RAF in 1969.

### Nimrod R.1

The Nimrod R.1 electronic and signals intelligence (ELINT and SIGINT) aircraft was developed from the MR.1. Signal detection equipment replaced the mission systems of the MR.1 and filled the weapons bays. The R.1 entered service with the RAF in 1974 and served until 2011. It was replaced by Boeing RC-135W Rivet Joint.

### Nimrod MR.2 and MR.2P

Many of the MR.1 aircraft were upgraded to the MR.2 standard starting in 1975, gaining the much improved Searchwater radar and Yellow Gate ESM system. The remaining MR.1 aircraft were retired.

During the South Atlantic War, air-to-air refueling probes from Avro Vulcans were installed on several MR.2s to give the MR.2P version and the underwing stations were

equipped with AIM-9G/L IRMs.

In 1990, some Nimrods were further equipped with decoy dispensers. In 2022, some gained TV/IR optics. The MR.2 was retired in 2010.

### Nimrod AEW.3

The Nimrod AEW.3 was a prototype airborne early-warning aircraft for the RAF. Development started in the 1970s and the project was cancelled in 1986s after significant technical problems, delays, and cost increases. The RAF acquired the Boeing E-3D Sentry for this role.

### Nimrod MR.4

The Nimrod MR.4 was an advanced maritime patrol aircraft. It was based on existing MR.2 aircraft, but with new engines, wings, and systems. It was cancelled in 2010, when it was on the point of entering service. The RAF eventually acquired the Boeing P-8 Poseidon for this role.

## Armament and Stores

The maritime patrol versions have three internal weapons bays for Mk.44, Mk.46, or Stingray torpedoes, Mk.11 conventional depth charges, Mk.57 nuclear depth charges, or auxiliary fuel tanks. During the South Atlantic War, they were also qualified to drop 1,000 lb bombs. During peacetime, one or two bays routinely carried air-droppable SAR equipment.

The two under-wing stations were originally intended to carry AS.12 or Martel missiles, but apparently they were not deployed. During the South Atlantic War, these stations were modified to each carry two AIM-9 Sidewinder missiles.

## Combat

The Nimrod MR.2/2P and R.1 saw combat in the South Atlantic War, the Gulf War, the Invasion of Afghanistan, and the Invasion of Iraq. The R.1 further saw combat in the military intervention in Libya Civil War.

## ADCs

ADCs are provided for:

- Nimrod MR.1
- Nimrod MR.2
- Nimrod MR.2P

## **Photo Credit**

- Hawker Siddeley Nimrod: Dale Coleman (GFDL 1.2)

<b>Nimrod MR.1</b>									Crew: Pilot, Copilot, Flight Engineer, Navigator, Tactical Navigator, Air Electronics Officer, WSO, WSO, EWSO, EWSO, EWSO, and EWSO
					<b>Maneuver DPs:</b>				
					LR/DR				—
					VR				—
<b>Power APs/DPs:</b> OOOO					<b>Turn DPs:</b>				
					CL	1/2	DT		
AB	—	—	—	—	TT	1.0	1.5	1.5	
M	1.0	1.0	0.5	10.0	HT	1.5	2.0	2.0	
N	0.0	0.0	0.0	3.0	BT	—	—	—	
I	1.0	1.0	2.0	1.0	ET	—	—	—	
SPBR	1.0	1.0	1.0	—	No rolling maneuvers allowed.				
					Size:	—2	AtA Refuel:	No	
					Vulnerability:	+1	Ejection Seat:	None	

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive	CL	1/2	DT			
Band	Ceil.	44	38	32	Speed	AB	AB	AB	Oth	Oth	
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	3.0 – 5.5	3.5 – 5.0	—	6.0	—	0.25	—	0.25	—	VH
HI	26–35	3.0 – 5.5	3.5 – 5.0	3.5 – 5.0	6.5	—	0.25	—	0.25	—	0.25
MH	17–25	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	6.5	—	0.50	—	0.50	—	0.50
ML	8–16	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	—	0.50	—	0.50	—	0.50
LO	0–7	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.5	—	1.00	—	1.00	—	0.50

<b>Radar:</b>	ASV Mk 21D	<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>
ECCM:	1	RWR:	B	
Arcs:	180+	DDS:	—	
Search:	Gr. Nav. (100)	DJM:	—	
Track:	Gr. Attack (50)	AJM:	—	
Lock-On:	6	BJM:	—	
<b>Guns:</b>	—	<b>Technology:</b>		<b>Load Point Limits:</b> CL : <31 1/2: <51
To Hit:	—	TV/IR Optics		<b>Weight Limit:</b> 20,000 DT : ≥51
Ammunition:	—			<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>
Gunsight:	—			1 and 5      1,500    IRM RG ASM
Ranging:	—			2-4      6,500    BB Torpedoes Depth Charges ASM
AtA/AtG:	—			
<b>Bomb System:</b>	Ballistic			<b>Load Notes:</b>
<b>Notes:</b>				<ol style="list-style-type: none"> <li>1. The Hawker Siddeley Nimrod MR.1 is a maritime patrol aircraft.</li> <li>2. Patrol Power. The Nimrod can shut down the outer two engines, reducing power APs, fuel consumption, and climb capability by one half and the cruise speed to 3.0.</li> </ol>
				<b>VPs:</b> 40/27/13/7      v3 0000000 0000-00-00T00:00:00

<b>Nimrod MR.2</b>					Crew: Pilot, Copilot, Flight Engineer, Navigator, Tactical Navigator, Air Electronics Officer, WSO, WSO, EWSO, EWSO, and EWSO																							
					<b>Maneuver DPs:</b>																							
<b>Power APs/DPs:</b> OOOO					LR/DR —																							
CL 1/2 DT Fuel					VR —																							
AB	—	—	—	—	<b>Turn DPs:</b>																							
M	1.0	1.0	0.5	10.0	CL 1/2 DT																							
N	0.0	0.0	0.0	3.0	TT	1.0	1.5	1.5																				
I	1.0	1.0	2.0	1.0	HT	1.5	2.0	2.0																				
SPBR	1.0	1.0	1.0	—	BT	—	—	—																				
Cruise Spd. CL: 5.0 Restr. Arcs: 60–					ET	—	—	—																				
Climb Spd.: 3.5 Blind Arcs: 30–					No rolling maneuvers allowed.																							
Visibility: 10 Internal Fuel: 4300																												
Size: −2 AtA Refuel: No																												
Vulnerability: +1 Ejection Seat: None																												
<b>Speeds and Ceilings</b>																												
Alt. Band	Conf. Ceil.	CL 44	1/2 38	DT 32	Dive Speed	CL AB	1/2 Oth	DT AB	1/2 Oth	DT AB	1/2 Oth																	
EH+	46+	—	—	—	—	—	—	—	—	—	—	EH+																
VH	36–45	3.0 – 5.5	3.5 – 5.0	—	6.0	—	0.25	—	0.25	—	—	VH																
HI	26–35	3.0 – 5.5	3.5 – 5.0	3.5 – 5.0	6.5	—	0.25	—	0.25	—	0.25	HI																
MH	17–25	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	6.5	—	0.50	—	0.50	—	0.50	MH																
ML	8–16	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	—	0.50	—	0.50	—	0.50	ML																
LO	0–7	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.5	—	1.00	—	1.00	—	0.50	LO																
<b>Radar:</b> Searchwater				<b>ECM:</b> IFF				<b>Weapon Stations Diagram:</b>																				
ECCM:	3	RWR:	B																									
Arcs:	90+	DDS:	B																									
Search:	Gr. Nav. (200)	DJM:	—																									
Track:	Gr. Attack (100)	AJM:	—																									
Lock-On:	8	BJM:	—																									
<b>Guns:</b> —				<b>Technology:</b> TV/IR Optics				<b>Load Point Limits:</b> CL : <31 1/2: <51																				
To Hit:	—					<b>Weight Limit:</b> 20,000 DT : ≥51																						
Ammunition:	—					<b>Station</b> Limit Allowed Loads																						
Gunsight:	—					1 and 5	1,500	IRM RG ASM																				
Ranging:	—					2–4	6,500	BB Torpedoes Depth Charges ASM																				
AtA/AtG:	—					<b>Load Notes:</b>																						
<b>Bomb System:</b> Ballistic				1. Stations 1 and 5 may each carry two AS.12 RGs, two Martel ARM or RG, two AIM-9 IRMs (from 1982), or two AGM-84 ASMs (from 1985). 2. Stations 2 to 4 are the internal bomb bays. Each bay can carry three Mk.46 torpedoes, three Stingray torpedoes (from 1982), six Mk.11 depth charges, one Mk.57 nuclear depth charge, eight 500 lb or four 1000 lb bombs (from 1982), or one 1500L fuel tank (weight 2500 and 125 fuel points). 3. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points.																								
<b>Notes:</b>																												
1. The Hawker Siddeley Nimrod MR.2 is a maritime patrol aircraft. 2. Patrol Power. The Nimrod can shut down the outer two engines, reducing power APs, fuel consumption, and climb capability by one half and the cruise speed to 3.0. 3. Yellow Gate RWR D from 1985. 4. DDS and TV/IR Optics from 1991.																												
<b>VPs:</b> 50/33/17/8										v3.0000000 0000-00T00:00:00																		

<b>Nimrod MR.2P</b>					Crew: Pilot, Copilot, Flight Engineer, Navigator, Tactical Navigator, Air Electronics Officer, WSO, WSO, EWSO, EWSO, and EWSO															
					<b>Maneuver DPs:</b>															
<b>Power APs/DPs:</b> OOOO					LR/DR —															
CL 1/2 DT Fuel					VR —															
AB — — — —					<b>Turn DPs:</b>															
M 1.0 1.0 0.5 10.0					CL 1/2 DT															
N 0.0 0.0 0.0 3.0					TT 1.0 1.5 1.5															
I 1.0 1.0 2.0 1.0					HT 1.5 2.0 2.0															
SPBR 1.0 1.0 1.0 —					BT — — —															
					ET — — —															
					No rolling maneuvers allowed.															
<b>Speeds and Ceilings</b>																				
Alt. Band	Conf. Ceil.	CL 44	1/2 38	DT 32	Dive Speed	CL AB	1/2 Oth	CL AB	1/2 Oth	DT AB	DT Oth									
EH+	46+	—	—	—	—	—	—	—	—	—	—	EH+								
VH	36–45	3.0 – 5.5	3.5 – 5.0	—	6.0	—	0.25	—	0.25	—	—	VH								
HI	26–35	3.0 – 5.5	3.5 – 5.0	3.5 – 5.0	6.5	—	0.25	—	0.25	—	0.25	HI								
MH	17–25	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	6.5	—	0.50	—	0.50	—	0.50	MH								
ML	8–16	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	—	0.50	—	0.50	—	0.50	ML								
LO	0–7	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.5	—	1.00	—	1.00	—	0.50	LO								
<b>Radar:</b> Searchwater				<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>															
ECCM:	3	RWR:	B	DDS:	B															
Arcs:	90+	DJM:	—	AJM:	—															
Search:	Gr. Nav. (200)	BJM:	—																	
Track:	Gr. Attack (100)																			
Lock-On:	8																			
<b>Guns:</b> —				<b>Technology:</b>	<b>Load Point Limits:</b> CL : <31 1/2: <51															
To Hit:	—	TV/IR Optics	<b>Weight Limit:</b> 20,000 DT : ≥51																	
Ammunition:	—	<b>Station</b> Limit Allowed Loads																		
Gunsight:	—	1 and 5	1,500 IRM RG ASM	<b>2–4</b> 6,500 BB Torpedoes Depth Charges ASM																
Ranging:	—																			
AtA/AtG:	—	<b>Load Notes:</b>																		
<b>Bomb System:</b> Ballistic				1. Stations 1 and 5 may each carry two AS.12 RGs, two Martel ARM or RG, two AIM-9 IRMs (from 1982), or two AGM-84 ASMs (from 1985). 2. Stations 2 to 4 are the internal bomb bays. Each bay can carry three Mk.46 torpedoes, three Stingray torpedoes (from 1982), six Mk.11 depth charges, one Mk.57 nuclear depth charge, eight 500 lb or four 1000 lb bombs (from 1982), or one 1500L fuel tank (weight 2500 and 125 fuel points). 3. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points.																
<b>Notes:</b>																				
1. The Hawker Siddeley Nimrod MR.2P is a maritime patrol aircraft. It differs from the MR.2 version only in the addition of an air-to-air refueling probe. 2. Patrol Power. The Nimrod can shut down the outer two engines, reducing power APs, fuel consumption, and climb capability by one half and the cruise speed to 3.0. 3. Yellow Gate RWR D from 1985. 4. DDS and TV/IR Optics from 1991.																				
<b>VPs:</b> 55/37/18/9										v3.0000000 0000-00T00:00:00										