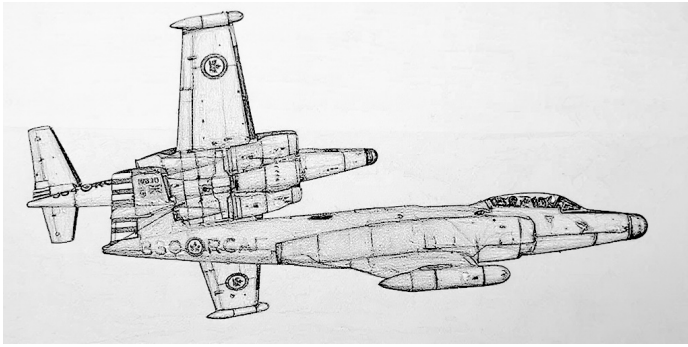


Avro Canada CF-100 Canuck



The Avro Canada CF-100 was a twin-engined, straight-wing, all-weather interceptor designed specifically for the RCAF to intercept Soviet bombers at long range over Canada. It was similar in many respects to the F-89 Scorpion and F-94 Starfire, but was larger than both.

Versions

Mk 3

The Mk 3 was the first production version. It was equipped with the APG-33 radar and Hughes E-1 fire-control system (which were also used on the F-94A/B) and armed with eight .50 cal M3 machine guns in a ventral pack.

It served in the RCAF from 1953 but was relegated to training duties shortly after the introduction of the Mk 4A.

Mk 4A

The Mk 4A was a development of the Mk 3, and had more powerful Orenda 9 engines. The radar and fire-control system were upgraded to the APG-40 and Hughes MG-2 (which were also used on the F-89D). The main armament was wing-tip pods each with 29 FFAR rockets, although it retained the ventral gun pack.

It served in the RCAF in Canada from 1953 and in Europe from 1956, and was retired as a fighter in 1962.

Mk 4B

The Mk 4B was similar to the Mk 4A, but used more powerful Orenda 11 engines.

It served in the RCAF in Canada from sometime after 1953 and in Europe from 1956, and was retired as a fighter in 1962.

Mk 5

The Mk 5 was a further development of the Mk 4B, with extended wings and horizontal stabilizers for better performance at high altitude. The gun pack, considered ineffective for attacking bombers, was omitted to save weight.

It served in the RCAF from 1955 to 1962, and began to be replaced by the CF-101 from 1961. The Belgian Air Force also flew Mk 5s from 1957 to 1964.

Armament and Stores

The internal armament depended on the version and was a mixture of .50 cal machine guns and FFAR air-to-air rockets.

The wing-tip rocket pods could be swapped for 1200L fuel tanks for ferry flights.

Combat

The CF-100 was not used in combat.

ADCs

- CF-100 Mk 4B
- CF-100 Mk 5

Photo Credit

- Avro Canada CF-100 Canuck: Canadian Department of National Defence (Public Domain)

CF-100 Mk 4B Canuck								Crew: Pilot and Radar Officer				
								Maneuver HFPs/DPs:				
LR/DR		1.0		1.5								
VR				1.0								
Power APs/DPs: ○○								Turn DPs:				
CL		1/2	DT	Fuel	CL		1/2	DT				
AB		—	—	—	TT		1.0	1.0	1.0			
M		1.0	1.0	1.0	2.0	HT		2.0	2.0			
N		0.0	0.0	0.0	1.0	BT		2.0	2.0			
I		1.0	1.0	2.0	0.0	ET		—	—			
SPBR		1.0	1.0	2.0	—							
					Cruise Spd. CL: 4.5			Restr. Arcs: —				
					Climb Spd.: 3.0			Blind Arcs: 30–				
					Visibility: 7			Internal Fuel: 525				
					Size: +0			AtA Refuel: No				
					Vulnerability: −1			Ejection Seat: Early				
Speeds and Ceilings						Climb Capabilities						
Alt. Band	Conf. Ceil.	CL 42	1/2 41	DT 40	Dive Speed	CL AB Oth		1/2 AB Oth		DT AB Oth		
EH+	46+	—	—	—	—	— —		— —		— —		EH+
VH	36–45	3.0 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	— 0.5		— 0.5		— 0.5		VH
HI	26–35	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.5	— 1.0		— 1.0		— 0.5		HI
MH	17–25	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	7.0	— 1.0		— 1.0		— 1.0		MH
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.0 – 5.5	7.0	— 1.0		— 1.0		— 1.0		ML
LO	0–7	1.5 – 6.5	2.0 – 6.0	2.0 – 6.0	7.0	— 1.5		— 1.0		— 1.0		LO

Radar: APG-40 ECCM: 1 Arcs: 180+ Search: 80-10 Track: 40-8 Lock-On: 8	ECM: IFF RWR: — DDS: — DJM: — AJM: — BJM: —	Weapon Stations Diagram:									
Guns: Eight .50 cal M3 To Hit: 6/4/1 Ammunition: 5.5 Gunsight: TT+0/HT+1/BT+2 Ranging: RE AtA/AtG: 5/6**	Technology: CC Rocket Attack	Load Point Limits: CL : 0-4 1/2: 5-6 Weight Limit: 4,400 DT : 7+									
Bomb System: Manual		<table border="1"> <thead> <tr> <th>Station</th> <th>Limit</th> <th>Allowed Loads</th> </tr> </thead> <tbody> <tr> <td>1 and 3</td> <td>2,200</td> <td>FT RP</td> </tr> <tr> <td>2</td> <td>0</td> <td>GP RP</td> </tr> </tbody> </table> <p>Load Notes:</p> <ol style="list-style-type: none"> Stations 1 and 3 are the wing-tip pods. They may carry RPs (each weight 500, load 3.0, and with 3.0 factors of air-to-air rockets) or 1200L FTs for ferry missions. The RPs and FTs may be jettisoned. Station 2 is the internal weapons bay. These guns may be equipped either with a gun pack with eight .50 cal machine guns or a rocket pack. If the rocket pack is used, remove the guns and add 4 factors of air-to-air rockets. The rocket pack was tested but did not enter service. 	Station	Limit	Allowed Loads	1 and 3	2,200	FT RP	2	0	GP RP
Station	Limit	Allowed Loads									
1 and 3	2,200	FT RP									
2	0	GP RP									
<p>Notes:</p> <ol style="list-style-type: none"> The Avro Canada CF-100 Mk 4B Canuck is an all-weather interceptor. The Mk 4B version is powered by two Orenda 11 engines and equipped with eight .50 cal M3 machine guns, two pods of FFARs, and a Hughes MG-2 fire-control system. High transonic drag (HTD). The configuration is considered to be CL with the wing-tip FTs or RPs if the internal fuel is 260 fuel points or less. 											
VPs: 12/8/4/2		v2 0000000 0000-00-00T00:00:00									

CF-100 Mk 5 Canuck										Crew: Pilot and Radar Officer					
										Maneuver HFPs/DPs:					
LR/DR		1.0		1.5											
VR				1.0											
Power APs/DPs: ○○										Turn DPs:					
CL		1/2		DT		Fuel		CL		1/2		DT			
AB		—		—		—		TT		0.0		0.0			
M		1.5		1.5		1.0		HT		1.0		1.0			
N		0.0		0.0		0.0		BT		1.0		2.0			
I		1.0		1.0		2.0		ET		—		—			
SPBR		1.0		1.0		2.0									
					Cruise Spd. CL: 4.5 Restr. Arcs: —										
					Climb Spd.: 3.0 Blind Arcs: 30–										
					Visibility: 8 Internal Fuel: 525										
					Size: +0 AtA Refuel: No										
					Vulnerability: −1 Ejection Seat: Early										
Speeds and Ceilings						Climb Capabilities									
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT	
Band Ceil.		45		43		40		Speed		AB Oth		AB Oth		AB Oth	
EH+		46+		—		—		—		— —		— —		EH+	
VH		36–45		3.0 – 5.5		3.0 – 5.5		6.0		— 0.5		— 0.5		VH	
HI		26–35		2.5 – 5.5		2.5 – 5.5		6.5		— 1.0		— 1.0		HI	
MH		17–25		2.0 – 6.0		2.0 – 6.0		6.5		— 1.0		— 1.0		MH	
ML		8–16		2.0 – 6.0		2.0 – 6.0		7.0		— 1.5		— 1.0		ML	
LO		0–7		1.5 – 6.0		2.0 – 5.5		7.0		— 1.5		— 1.5		LO	

Radar:		APG-40		ECM:		IFF		Weapon Stations Diagram:					
ECCM:		1		RWR:		—							
Arcs:		180+		DDS:		—							
Search:		80–10		DJM:		—							
Track:		40–8		AJM:		—							
Lock-On:		8		BJM:		—							
Guns:		—		Technology:		Load Point Limits: CL : 0–4							
To Hit:		—		CC Rocket Attack									
Ammunition:		—											
Gunsight:		TT+0/HT+1/BT+2											
Ranging:		RE											
AtA/AtG:		—				Weight Limit: 4,400 DT : 7+							
Bomb System:		Manual		Station Limit Allowed Loads									
				1 and 2 2,200 FT RP									
				Load Notes:									
				1. Stations 1 and 2 are the wing-tip pods. They may carry RPs (each weight 500, load 3.0, and with 3.0 factors of air-to-air rockets) or 1200L FTs for ferry missions. The RPs and FTs may be jettisoned.									
				</									