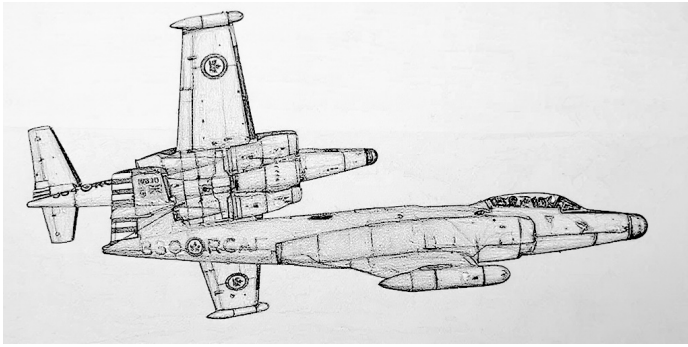


Avro Canada CF-100 Canuck



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 DPs:				
LR/DR		2.0												
VR		1.5												
Turn DPs:														
		CL	1/2	DT										
TT		1.0	1.0	1.0										
HT		1.5	1.5	1.5										
BT		1.5	1.5	1.5										
ET		—	—	—										
Power APs/DPs: ○○					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		ECM:		IFF		Weapon Stations Diagram:					
ECCM:			1		RWR:		—							
Arcs:			180+		DDS:		—							
Search:			80–10		DJM:		—							
Track:			40–8		AJM:		—							
Lock-On:			8		BJM:		—							
Guns:			Eight .50 cal M3		Technology:				Load Point Limits:		CL : < 5			
To Hit:			6/4/1		CC Rocket Attack						1/2: < 7			
Ammunition:			5.5				Weight Limit:		4,400		DT : ≥ 7			
Gunsight:			TT+0/HT+1/BT+2				Station		Limit		Allowed Loads			
Ranging:			RE				1 and 3		2,200		FT RP			
AtA/AtG:			5/6**				2		0		GP RP			
Bomb System:			Manual											
Notes:														
1. 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.														
2. High transonic drag (HTD).														
3. 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										v3 0000000 0000-00-00T00:00:00				

CF-100 Mk 5 Canuck										Crew: Pilot and Radar Officer																			
										Maneuver DPs:																			
LR/DR		2.0																											
VR		1.5																											
Power APs/DPs: ○○										Turn DPs:																			
CL		1/2	DT	Fuel	CL		1/2	DT																					
AB		—	—	—	—	TT		0.5	0.5	0.5																			
M		1.5	1.5	1.0	2.0	HT		1.0	1.0	1.0																			
N		0.0	0.0	0.0	1.0	BT		1.0	1.0	1.5																			
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: 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		3.0 – 5.0		6.0		— 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		6.5		— 1.0		— 1.0		— 1.0		MH													
ML	8–16	2.0 – 6.0		2.0 – 6.0		2.0 – 5.5		7.0		— 1.5		— 1.0		— 1.0		ML													
LO	0–7	1.5 – 6.0		2.0 – 5.5		2.0 – 5.5		7.0		— 1.5		— 1.5		— 1.0		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 : < 5									
To Hit:					—					CC Rocket Attack					Weight Limit:					4,400 DT : ≥ 7									
Ammunition:					—										Station					Limit					Allowed Loads				
Gunsight:					TT+0/HT+1/BT+2										1 and 2					2,200					FT RP				
Ranging:					RE										Load Notes:														
AtA/AtG:					—										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.														
Bomb System:					Manual																								
Notes:																													
1. The Avro Canada CF-100 Mk 5 Canuck is an all-weather interceptor. The Mk 5 version is a development of the Mk 4B with longer wings but without the .50 cal machine guns.																													
2. High transonic drag (HTD).																													
3. The configuration is considered to be CL with the wing-tip FTs or RPs if the internal fuel is 260 fuel points or less.																													