

Northrup F-89 Scorpion

- F-89D
- F-89H
- F-89J (Rocket-and-Fuel Pods)
- F-89J (Fuel-Only Pods)

F-89D Scorpion								Crew: Pilot and Radar Officer		
								Maneuver HFPs/DPs:		
								LR/DR	1.0	1.5
								VR	1.0	
Power APs/DPs/FPs: ○○								Turn DPs:		
								CL	1/2	DT
AB	1.0	1.0	1.0	6.0				TT	0.0	0.0
M	1.0	1.0	0.5	3.0				HT	1.0	1.0
N	0.0	0.0	0.0	1.0				BT	2.0	2.0
I	0.5	0.5	1.0	0.0				ET	—	—
SPBR	0.5	1.0	1.0	—						
If not using AB, reduce maximum speeds by 0.5.					Cruise Speed:	4.5	Restr. Arcs:	—		
					Climb Speed:	3.5	Blind Arcs:	30–		
					Visibility:	7	Internal Fuel:	575		
					Size:	+0	AtA Refuel:	No		
					Vulnerability:	+0	Ejection Seat:	Std		

Speeds and Ceilings						Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 49	1/2 45	DT 40	Dive Speed	CL AB	1/2 AB	DT AB	Alt. Band		
						Oth	Oth	Oth			
EH+	46+	3.0 – 5.0	—	—	6.0	0.50	0.25	—	—	—	EH+
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 4.5	6.0	0.50	0.25	0.50	0.25	0.50	0.25
HI	26–35	2.5 – 6.0	2.5 – 5.5	3.0 – 5.0	6.5	0.50	0.25	0.50	0.25	0.50	0.25
MH	17–25	2.5 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	1.00	0.50	1.00	0.50	1.00	0.50
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.0 – 5.5	7.0	1.00	0.50	1.00	0.50	1.00	0.50
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.0	1.00	0.50	1.00	0.50	1.00	0.50

Radar:	APG-40	ECM:	IFF	Weapon Stations Diagram:
ECCM:	0	RWR:	—	
Arcs:	180+	DDS:	—	
Search:	100–20	DJM:	—	
Track:	40–8	AJM:	—	
Lock-On:	7	BJM:	—	
Guns:	—	Technology:		Load Point Limits:
To Hit:	—	CC Rocket Attack		CL : 0–4
Ammunition:	—			1/2: 5–8
Gunsight:	TT+0/HT+1/BT+2			
Ranging:	RE			
AtA/AtG:	—			Weight Limit: 4,400 DT : 9+
Bomb System:	Manual			Station Limit Allowed Loads
				1 and 4 0
				2 and 3 1,600 BB FT
Notes:				Load Notes:
1.	The Northrop F-89D Scorpion is an all-weather interceptor.			1. Stations 1 and 8 are fixed wing-tip pods for rockets and fuel. Each can carry 4.5 factors of air-to-air rockets, giving a total of 9 factors with both pods. The pod fuel is included in the internal fuel.
2.	High transonic drag (HTD).			
3.	The E-6 fire-control system provides CC Rocket Attack technology.			
				VPs: 12/8/4/2
				v1.0000000 0000-00-00T00:00:00

F-89H Scorpion								Crew: Pilot and Radar Officer	
Power APs/DPs/FPs: ○○								Maneuver HFPs/DPs:	
AB 1.0 1.0 1.0 6.0				LR/DR 1.0 1.5				VR 1.0	
M 1.0 1.0 0.5 3.0								Turn DPs:	
N 0.0 0.0 0.0 1.0				CL 1/2 DT				CL 1/2 DT	
I 0.5 0.5 1.0 0.0				TT 0.0 0.0 1.0				TT 0.0 0.0 1.0	
SPBR 0.5 1.0 1.0 —				HT 1.0 1.0 2.0				HT 1.0 1.0 2.0	
Cruise Speed: 4.5 Restr. Arcs: —				BT 2.0 2.0 2.0				BT 2.0 2.0 2.0	
Climb Speed: 3.5 Blind Arcs: 30—				ET — — —				ET — — —	
Visibility: 7 Internal Fuel: 575									
Size: +0 AtA Refuel: No									
Vulnerability: +0 Ejection Seat: Std									

Speeds and Ceilings					Climb Capabilities				
Alt. Band	Conf. Ceil.	CL 49	1/2 45	DT 40	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band
EH+	46+	3.0 – 5.0	—	—	6.0	0.50 0.25	— —	— —	EH+
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 4.5	6.0	0.50 0.25	0.50 0.25	0.50 0.25	VH
HI	26–35	2.5 – 6.0	2.5 – 5.5	3.0 – 5.0	6.5	0.50 0.25	0.50 0.25	0.50 0.25	HI
MH	17–25	2.5 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	1.00 0.50	1.00 0.50	1.00 0.50	MH
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.0 – 5.5	7.0	1.00 0.50	1.00 0.50	1.00 0.50	ML
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.0	1.00 0.50	1.00 0.50	1.00 0.50	LO

Radar: APG-40	ECM: IFF	Weapon Stations Diagram:		
ECCM: 1	RWR: —			
Arcs: 180+	DDS: —			
Search: 120–20	DJM: —			
Track: 60–10	AJM: —			
Lock-On: 7	BJM: —			
Guns: —	Technology: CC Rocket Attack	Load Point Limits: CL : 0–4 1/2: 5–8		
To Hit: —		Weight Limit: 4,400 DT : 9+		
Ammunition: —		Station	Limit	Allowed Loads
Gunsight: TT+0/HT+1/BT+2		1 and 4	390	IRM RHM
Ranging: RE		2 and 4	1,600	BB FT
AtA/AtG: —		Load Notes:		
Bomb System: Manual		1. Stations 1 and 4 are fixed wing-tip pods for rockets, missiles, and fuel. Each can carry 2 factors of air-to-air rockets, giving a total of 4 factors for with pods. Each can also carry three RHM/IRM. The pod fuel is included in the internal fuel.		
Notes:		2. May use GAR-1/-1D RHMs and GAR-2/-2A IRMs. Typically carries three RHMs in one pod and three IRMs in the other.		
1.				
2. High transonic drag (HTD).				
3. The E-9 fire-control system provides CC Rocket Attack technology.				
VPs: 14/9/5/2				v1.0000000 0000-00-00T00:00:00

F-89J Scorpion (Rocket-and-Fuel Pods)								Crew: Pilot and Radar Officer		
Power APs/DPs/FPs: ○○								Maneuver HFPs/DPs:		
CL 1/2 DT Fuel								LR/DR	1.0	1.5
AB 1.0 1.0 1.0 6.0								VR	1.0	
M 1.0 1.0 0.5 3.0								Turn DPs:		
N 0.0 0.0 0.0 1.0								CL	1/2	DT
I 0.5 0.5 1.0 0.0								TT	0.0	0.0
SPBR 0.5 1.0 1.0 —								HT	1.0	1.0
Cruise Speed: 4.5 Restr. Arcs: —								BT	2.0	2.0
Climb Speed: 3.5 Blind Arcs: 30—								ET	—	—
Visibility: 7 Internal Fuel: 575										
Size: +0 AtA Refuel: No										
Vulnerability: +0 Ejection Seat: Std										

Speeds and Ceilings						Climb Capabilities				
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT	Alt.	
Band	Ceil.	49	45	40	AB Oth	AB Oth	AB Oth	AB Oth	Band	
EH+	46+	3.0 – 5.0	—	—	6.0	0.50 0.25	— —	— —	EH+	
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 4.5	6.0	0.50 0.25	0.50 0.25	0.50 0.25	VH	
HI	26–35	2.5 – 6.0	2.5 – 5.5	3.0 – 5.0	6.5	0.50 0.25	0.50 0.25	0.50 0.25	HI	
MH	17–25	2.5 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	1.00 0.50	1.00 0.50	1.00 0.50	MH	
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.0 – 5.5	7.0	1.00 0.50	1.00 0.50	1.00 0.50	ML	
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.0	1.00 0.50	1.00 0.50	1.00 0.50	LO	

Radar: APG-40	ECM: IFF	Weapon Stations Diagram:		
ECCM: 1	RWR: —			
Arcs: 180+	DDS: —			
Search: 120–20	DJM: —			
Track: 60–10	AJM: —			
Lock-On: 7	BJM: —			
Guns: —	Technology: CC Rocket Attack	Load Point Limits:		
To Hit: —		CL : 0–4 1/2: 5–8		
Ammunition: —		Weight Limit: 4,400		
Gunsight: TT+0/HT+1/BT+2		DT : 9+		
Ranging: RE		Station		
AtA/AtG: —		Limit		
Bomb System: Manual		Allowed Loads		
Notes:		1 and 8 0		
1.		2 and 7 1,600 BB FT Nuclear RK		
2. High transonic drag (HTD).		3–4 and 5–6 150 IRM		
3. The MG-12 fire-control system provides CC Rocket Attack technology.		Load Notes:		
		1. Stations 1 and 8 are fixed wing-tip pods for rockets and fuel. Each can carry 4.5 factors of air-to-air rockets, giving a total of 9 factors with both pods. The pod fuel is included in the internal fuel.		
		2. May use AIR-2A nuclear RK.		
		3. May use GAR-2/-2A IRM.		
		VPs: 15/10/5/3		
		v1.0000000 0000-00-00T00:00:00		

F-89J Scorpion (Fuel-Only Pods)								Crew: Pilot and Radar Officer		
Power APs/DPs/FPs: ○○								Maneuver HFPs/DPs:		
AB 1.0 1.0 1.0 6.0								LR/DR	1.0	1.5
M 1.0 1.0 0.5 3.0								VR	1.0	
N 0.0 0.0 0.0 1.0								Turn DPs:		
I 0.5 0.5 1.0 0.0								CL	1/2	DT
SPBR 0.5 1.0 1.0 —								TT	0.0	0.0
If not using AB, reduce maximum speeds by 0.5.								HT	1.0	1.0
								BT	2.0	2.0
								ET	—	—

Speeds and Ceilings						Climb Capabilities				
Alt. Band	Conf. Ceil.	CL 49	1/2 45	DT 40	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band	
EH+	46+	3.0 – 5.0	—	—	6.0	0.50 0.25	— —	— —	EH+	
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 4.5	6.0	0.50 0.25	0.50 0.25	0.50 0.25	VH	
HI	26–35	2.5 – 6.0	2.5 – 5.5	3.0 – 5.0	6.5	0.50 0.25	0.50 0.25	0.50 0.25	HI	
MH	17–25	2.5 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	1.00 0.50	1.00 0.50	1.00 0.50	MH	
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.0 – 5.5	7.0	1.00 0.50	1.00 0.50	1.00 0.50	ML	
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.0	1.00 0.50	1.00 0.50	1.00 0.50	LO	

Radar: APG-40	ECM: IFF	Weapon Stations Diagram:		
ECCM: 1	RWR: —			
Arcs: 180+	DDS: —			
Search: 120–20	DJM: —			
Track: 60–10	AJM: —			
Lock-On: 7	BJM: —			
Guns: —	Technology: CC Rocket Attack	Load Point Limits:		
To Hit: —		CL : 0–4 1/2: 5–8		
Ammunition: —		Weight Limit: 4,400 DT : 9+		
Gunsight: TT+0/HT+1/BT+2		Station	Limit	Allowed Loads
Ranging: RE		1 and 8	0	
AtA/AtG: —		2 and 7	1,600	BB FT Nuclear RK
Bomb System: Manual		3–4 and 5–6	150	IRM RHM
Notes:	Load Notes:			
1.	Stations 1 and 8 are fixed wing-tip pods for fuel only. The pod fuel is included in the internal fuel.			
2.	High transonic drag (HTD).			
3.	The MG-12 fire-control system provides CC Rocket Attack technology.			
VPs: 15/10/5/3				v1.0000000 0000-00-00T00:00:00