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 (F)B-111A/Char

Characteristics of the General Dynamics FB-111A and FB-111H

	FB-111A	FB-111H
<b>DIMENSIONS</b>		
Wingspan, spread	70 ft.	70 ft.
Wingspan, fully swept	33 ft. 11 in.	44 ft. 10.2 in.
Length	73 ft. 6 in.	88 ft. 2.5 in.
Height	17 ft. 1.4 in.	22 ft.
<b>WEIGHT</b>		
Weight, empty	47,445 lb.	51,832 lb.
Max. takeoff weight	116,115 lb.	140,000 lb.
Max. weight in flight	122,900 lb.	155,000 lb.
Fuel capacity	More than 32,000 lb.	More than 64,000 lb.
<b>PERFORMANCE</b>		
Max. speed at altitude	Mach 2.2	Mach 1.75
Max. speed, penetration on deck	Mach 1.1	Mach 0.95+
Service ceiling	Above 50,000 ft.	Above 50,000 ft.
Takeoff distance	7,400 ft.	6,650 ft.
Landing distance	2,750 ft.	3,200 ft.
Refueled mission	5,300 n.m. with 1,200 n.m. high-speed, low-level dash.	44% greater range for same sea-level dash distance and same payload, or more than 3 times the payload for the same total mission distance.
<b>ENGINES</b>		
	2 Pratt & Whitney TF30-P-7	2 General Electric F101 GE-100.
Bypass ratio	0.73	2.01.
Thrust class	20,000 lb.	30,000 lb.
Self-start capability	(none)	Simultaneous engine self-start capability.
<b>WING</b>		
Type	Cantilever shoulder	Cantilever shoulder
Area	550 sq. ft.	550 sq. ft.
Sweep	16° to 72°	16° to 60°
<b>FUSELAGE</b>		
	Semimonocoque structure, largely aluminum alloy with honeycomb sandwich skin, some steel, and titanium.	Fuselage stretched 104 in. and enlarged to accommodate F101 engines, additional fuel, and avionics.
<b>CREW MODULE</b>		
	Zero speed/zero altitude emergency escape module.	Zero speed/zero altitude emergency escape module.
<b>INLET</b>		
	Quarter-circle, variable geometry.	Circular, fixed-geometry, normal shock inlet.
<b>ARMAMENT</b>		
Internal	Weapons bay capacity for two nuclear weapons.	Weapons bay enlarged to carry up to five nuclear weapons.
External	Weapons mounted on four attachment points under each wing. The two inboard on each side pivot as the wings are swept.	Weapons mounted on four attachment points under each wing. The two inboard on each side pivot as the wings are swept. Weapons can also be carried conformally at six stations on the fuselage.
Nuclear weapons	6	15
<b>ELECTRONICS</b>		
Attack radar	APQ-114	APQ-144 (Advanced APQ-114)
Radar altimeter	ANP-167	APN-194
Terrain-following radar	APQ-134	APQ-134M
Doppler radar	APQ-185	APN-200
Astrocompass	ASQ-119	(not required)
INS	AJN-16	AJN-16 with SKN-16 added for dual capability.
Computer	CP-2	CP-2A (twice the memory capacity and processing speed).
SATCOM	Collins Radio	Collins Radio
Transponder	APZ-78	APZ-78
Communication	ARC-109, ARC-123, AIC-25, APY-64V, ARN-52V, ARN-58A.	ARC-109, ARC-123, AIC-25, APY-64V, ARN-52V, ARN-58A.