

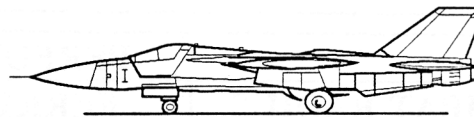
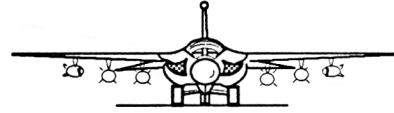
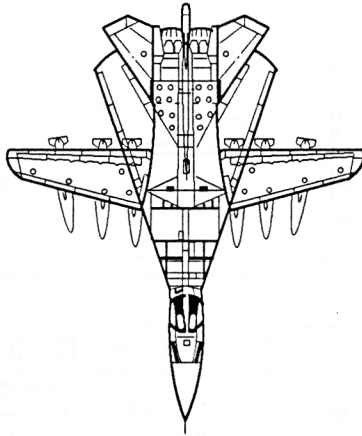
A1-a
(F)B-111A/char

UNCLASSIFIED

SERVICE

CHARACTERISTICS SUMMARY

BOMBER FB-111A



GENERAL DYNAMICS

Wing Area 550 sq ft Length 73.47 ft
Span (extended) 70 ft Height 17.04 ft

| AVAILABILITY | | | PROCUREMENT | | | |
|------------------|---------|-------|---------------------------------------|--|--|--|
| Number available | | | Number to be delivered in fiscal year | | | |
| ACTIVE | RESERVE | TOTAL | | | | |
| | | | | | | |

STATUS

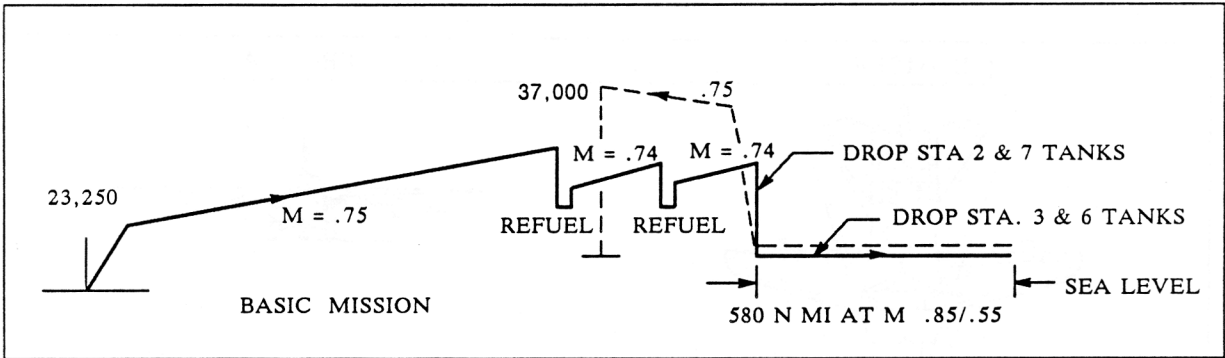
- | | |
|-----------------------------------|--|
| 1. Design initiated Aug 63 | 5. First acceptance Sep 69 |
| 2. Contract approved Dec 66 | 6. Total production aircraft contracted for 76 |
| 3. Mock-up Nov 66 | 7. Production completed Apr 71 |
| 4. First flight July 67 | |

NAVY EQUIVALENT: NONE

MFG'S MODEL: 12

| POWER PLANT | FEATURES | ARMAMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|----------|-------|------|-----------------|------|------|----------------|------|-----|--|--|-------|----------------|--------|--|---|------|-----|-----------------------|--|-----------------------------|---|---------------|--|------------------------|------|---------------------|--|---------------------------|----|-----------------|--|--------------------|----|----------------------------|----|--------------------------|----|-------------|---|-------------|----|------------|--|--------------------------|----|-------------|----|
| (2) TF30-P-107 Turbofan (Pratt & Whitney) ENGINES RATINGS <table border="0"> <tr> <td>SLS</td> <td>LB - RPM</td> <td>- MIN</td> </tr> <tr> <td>Max:</td> <td>*20,350 -14,550</td> <td>- 45</td> </tr> <tr> <td>Int:</td> <td>12,350 -14,400</td> <td>- 45</td> </tr> <tr> <td>Max</td> <td></td> <td></td> </tr> <tr> <td>Cont:</td> <td>10,800 -14,150</td> <td>- Cont</td> </tr> </table> * With afterburner operating | SLS | LB - RPM | - MIN | Max: | *20,350 -14,550 | - 45 | Int: | 12,350 -14,400 | - 45 | Max | | | Cont: | 10,800 -14,150 | - Cont | Crew 2 ECM Equipment Variable Sweep Wing Integrated Crew Escape Module Automatic Pilot Automatic Terrain Following Radar Precision Digital Bombing/ Inertial Navigation System Full Span Wing Leading and Trailing Edge High Lift Devices Inflight Refueling All Weather Day or Night Operating Capability Intercontinental Range Supersonic Capability: 1.1M @ SL to 2.2M @ Alt Air Conditioning Speed Brake Tail Hook (Arresting) Landing Gear Sod Field Capability Fuel Capacity (Internal) 5623 Gal | <table border="0"> <tr> <td>TYPE</td> <td>NO.</td> </tr> <tr> <td>Nuclear Air-to-Ground</td> <td></td> </tr> <tr> <td>Missiles AGM-69A (SRAM) ...</td> <td>6</td> </tr> <tr> <td>Nuclear Bombs</td> <td></td> </tr> <tr> <td>B-43, B-57, B-61</td> <td>6 ea</td> </tr> <tr> <td>Conventional Bombs:</td> <td></td> </tr> <tr> <td>M-117, M-117D, M-117R ...</td> <td>16</td> </tr> <tr> <td>MK-82 and MK-82</td> <td></td> </tr> <tr> <td>Snakeye (LD)</td> <td>24</td> </tr> <tr> <td>MK-82, MK82 Snakeye (LD) .</td> <td>24</td> </tr> <tr> <td>MK-82 Snakeye (HD)</td> <td>20</td> </tr> <tr> <td>MK-84</td> <td>4</td> </tr> <tr> <td>MK-36</td> <td>20</td> </tr> <tr> <td>Dispensers</td> <td></td> </tr> <tr> <td>CBU-24/49/52/58/71</td> <td>20</td> </tr> <tr> <td>MK-20</td> <td>20</td> </tr> </table> | TYPE | NO. | Nuclear Air-to-Ground | | Missiles AGM-69A (SRAM) ... | 6 | Nuclear Bombs | | B-43, B-57, B-61 | 6 ea | Conventional Bombs: | | M-117, M-117D, M-117R ... | 16 | MK-82 and MK-82 | | Snakeye (LD) | 24 | MK-82, MK82 Snakeye (LD) . | 24 | MK-82 Snakeye (HD) | 20 | MK-84 | 4 | MK-36 | 20 | Dispensers | | CBU-24/49/52/58/71 | 20 | MK-20 | 20 |
| SLS | LB - RPM | - MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max: | *20,350 -14,550 | - 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Int: | 12,350 -14,400 | - 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cont: | 10,800 -14,150 | - Cont | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TYPE | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nuclear Air-to-Ground | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Missiles AGM-69A (SRAM) ... | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nuclear Bombs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B-43, B-57, B-61 | 6 ea | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conventional Bombs: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M-117, M-117D, M-117R ... | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MK-82 and MK-82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snakeye (LD) | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MK-82, MK82 Snakeye (LD) . | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MK-82 Snakeye (HD) | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MK-84 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MK-36 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dispensers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CBU-24/49/52/58/71 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MK-20 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CHARACTERISTICS SUMMARY BASIC MISSION FB-111A



| PERFORMANCE | | | |
|---|--|--|---|
| COMBAT RADIUS | FERRY RANGE | S P E E D | |
| 4435 naut mi with (4) AGM-69A + 4 tanks outbound (subsonic) at 455 kts avg; return (subsonic) at 430 kts avg with 585 naut mi SL combat zone radius and 5520 naut mi total mission distance in 12.45 hours | 4313 naut mi with 9233 gal fuel at 436 knots avg in 9.53 hours at 114,277 lb T.O. wt (6) 600 gal tanks dropped. | COMBAT 728 knots at zero ft alt, A/B power* | MAX 1262 knots at 50,000 ft alt, A/B power** |
| | | BASIC 1185 knots at 35,000 ft alt, A/B power* | |
| | | *V _H limit **Cont engine operation limit | |
| C L I M B | C E I L I N G | T A K E - O F F | |
| 2685 fpm sea level, takeoff weight intermediate power | 22,780 ft 100 fpm, take-off weight intermediate power | ground run | |
| | | 5350 ft | _____ ft |
| | | no assist | assisted |
| 28,600 fpm sea level, combat weight maximum power, .95M 72.5° sweep | 51,750 ft 500 fpm, combat weight maximum power | over 50 ft height | |
| | | 6670 ft | _____ ft |
| | | no assist | assisted |
| L O A D | W E I G H T S | L A N D I N G D I S T. | |
| Missiles (4) 8988 lb Fuel transferred by tanker 63,367 lb | Empty 47,481 lb Combat 69,367 lb Take - off 110,649 lb | ground run | over 50 ft height |
| Fuel: protected 7446 gal 0 % droppable 32.2 % external 32.2 % | | 1720 ft | 2730 ft |
| | | Wt 3248 lb | |

N O T E S

1. Performance Basis:

(a) Contractors Data Based on flight test and wind tunnel results.
 (b) Convair Aerospace Division, Fort Worth Operation Reports:
 FZA-12-6021; FZA-12-6007; FZW-12-6037

2. Landing distance without thrust reverser or drag chute

Revision Basis: To update engine designation.