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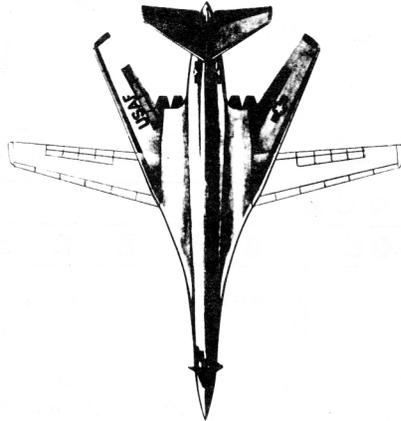
*All (Rockwell International)
B-1A/char*

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PRE-MOCK-UP

Characteristics Summary

BOMBER B-1A



NORTH AMERICAN ROCKWELL

| | | | |
|----------------------------------|------------|------------------|----------|
| Wing Area | 1946 sq ft | Length | 145.3 ft |
| Span (sweep angle 15°) | 136.7 ft | Height | 33.6 ft |
| (sweep angle 67.5°) | 77.8 ft | | |

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

STATUS

1. Date of Contract: Jun 70
2. First Flight: Apr 74 (est)

Navy Equivalent: None

Mfr's Model: D481-55B

POWER PLANT

(4) F101-GE-100

General Electric

ENGINE RATINGS

| | | | | | |
|-----------|---------|---|-----|---|------|
| S. L. S. | LB | - | RPM | - | MIN |
| Max | *29,850 | - | † | - | Cont |
| Intermed: | 16,110 | - | ‡ | - | Cont |

* Afterburner
 † HPR/LPR 14,670/7960
 ‡ HPR/LPR 14,710/7960

FEATURES

Crew: 4

Variable-Sweep Wing
 Double slotted flaps
 Leading-edge slats
 Mixed Compression Inlet
 Spoilers
 Power operated controls
 Automatic pilot
 Rotary Missile Launcher
 Air Refueling Prov.
 Crew compartment provides "shirt-sleeve" environment
 Crew escape system consists of an ejectable module

Max fuel capacity:
 Int - 30,326 gal
 Weapon Bay - 3385 gal
 Ext - 6000 gal
 Total 39,711 gal

ARMAMENT

MISSILES

| | |
|----------|------------------|
| Nr | Type |
| 24 (int) | SRAM . . AGM-69A |
| 8 (ext) | SRAM . . AGM-69A |

BOMBS

| | | |
|-----|-----------------------|------|
| Nr | Class | (lb) |
| 30 | M117 or M117R . . . | 750 |
| 84 | MK82 or MK82 SN . . . | 500 |
| 24 | MK84 | 2000 |
| 135 | Bluff shape | 500 |

ELECTRONICS

Specific Avionics equipment will be determined during RDT & E program.

DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Nov 71
(AFG 1, Addn 101) (15 of 68)

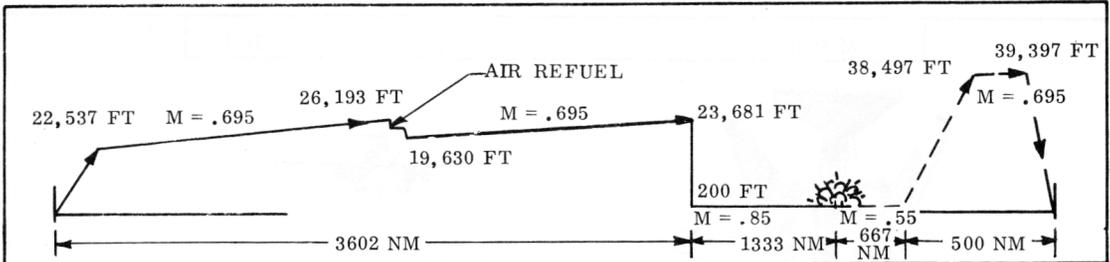
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B-1A
(Pg 1 of 3)

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Characteristics Summary Basic Mission B-1A



PERFORMANCE

| COMBAT RANGE | FERRY RANGE | S P E E D |
|---|---|--|
| 6103 naut. mi with 50,000 lb payload at a penetration & target speed of .85 mach/562 knots in 14.0 hours. | 7706 naut. mi with 32,643 gal fuel at 407 knots avg. in 18.9 hours at 360,000 lb T.O. wt. | COMBAT .95 mach/628 knots at 200 200 ft alt, max thrust MAX 2.2 mach/1262 knots at 59,000 ft alt, max thrust BASIC 1.9 mach/1095 knots at 35,000 ft alt, max thrust |
| C L I M B | C E I L I N G | T A K E - O F F |
| 2820 fpm sea level, take-off weight intermediate thrust | 27,000 ft 100 fpm, take-off weight intermediate thrust | ground run 4440 ft — ft no assist assisted |
| 30,930 fpm sea level, combat weight maximum thrust | 58,800 ft 500 fpm, combat weight maximum thrust | over 50 ft height 6135 ft — ft no assist assisted |
| L O A D | W E I G H T S | S T A L L I N G S P E E D |
| Weapons: 50,000 lb Fuel (ramp): 24,788 gal (AAR): 15,890 gal protected droppable external Density: 6.5 lb/gal | Empty 143,000 lb Combat 200,102 lb Take - off . . . *360,000 lb Max Inflight . 391,000 lb *limited by strength (landing gear) | 145 knots power-off, landing config- uration, take-off weight |
| | | T I M E T O C L I M B |
| | | 11.8 min SL to initial cruise altitude (22,537 ft) T. O. weight intermediate thrust |

N O T E S

- Performance Basis:
 - Estimated data
 - North American Rockwell Report Nr NA-71-276 dtd 1 April 1971
- To reflect change in estimated First Flight date and climb and ceiling performance.

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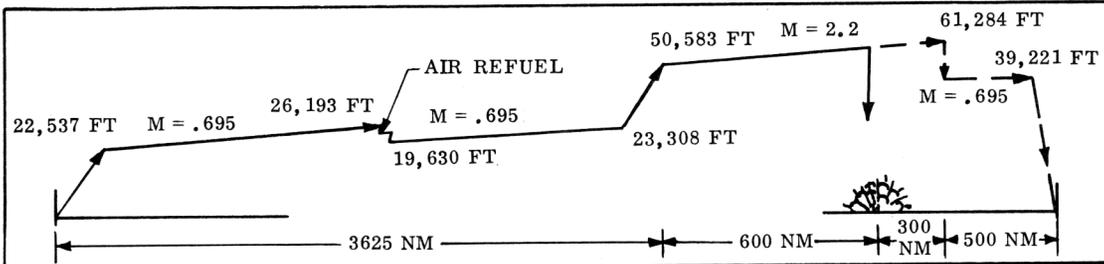
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PRE-MOCK-UP

Characteristics Summary Supersonic Mission B-1A



PERFORMANCE

| COMBAT RANGE | FERRY RANGE | S P E E D |
|---|--|--|
| 5025 naut. mi with 25,000 lb payload at a penetration & target speed of 2.2 mach/1262 knots in 10.4 hours. | 7706 naut. mi with 32,643 gal fuel at 407 knots avg. in 18.9 hours at 360,000 lb T.O. wt. | COMBAT 2.2 mach/1262 knots at 55,882 ft alt, max thrust MAX 2.2 mach/1262 knots at 59,300 ft alt, max thrust BASIC 1.9 mach/1095 knots at 35,000 ft alt, max thrust |
| C L I M B | C E I L I N G | T A K E - O F F |
| 2820 fpm sea level, take-off weight intermediate thrust | 27,000 ft 100 fpm, take-off weight intermediate thrust | ground run 4440 ft — ft no assist assisted |
| 31,580 fpm sea level, combat weight maximum thrust | 59,100 ft 500 fpm, combat weight maximum thrust | over 50 ft height 6135 ft — ft no assist assisted |
| L O A D | W E I G H T S | S T A L L I N G S P E E D |
| Weapons: 25,000 lbs Fuel: (ramp) 28,628 gal (AAR) 15,890 gal protected droppable external Density: 6.5 lb/gal | Empty 143,000 lb Combat 195,821 lb Take - off . . . *360,000 lb Max Inflight . 391,000 lb *limited by strength (landing gear) | 145 knots power-off, landing config- uration, take-off weight |
| | | T I M E T O C L I M B |
| | | 11.8 min SL to initial cruise altitude (22,537 ft) T. O. weight intermediate thrust |

N O T E S

- Performance Basis:
 - Estimated data
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