Standard Aircraft Characteristics

NAVY MODEL
A-4C
AIRCRAFT
(TITLE UNCLASSIFIED)

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JANUARY 1970
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STANDARD AIRCRAFT CHARACTERISTICS

MODEL A-4C

DOUGLAS
### POWER PLANT

- No. & Model (1) J65-W16A
- Axial Flow Turbojet
- Without Afterburner
- MFR. - Wright Aeronautical
- Spec. No. - WA-226
- Specification N800-8
- Length ........... 133 in.
- Diameter ........... 31 in.

### RATINGS

- MIL .... 8700 RPM 7700 lb.
- Norm. .... 8000 RPM 6750 lb.

### MISSION AND DESCRIPTION

The A-4C airplane is a lightweight, high performance, carrier-based, jet-powered attack airplane capable of dive, slide and low bombing. In-flight fueling (hoover or receiver), carrying an air-to-surface missile, and firing conventional guns and rockets. It can operate from OAS and UAV type carriers. Limited all-weather navigational aids are provided.

The arrangement is conventional with all-metal semi-monocoque structure and three-spar low aspect ratio wing. Landing gear, flaps, and speed-brakes are hydraulically operated. An electrically-operated, fully adjustable stabilator is used to trim throughout the normal flight range. The aileron, elevator, and rudder systems are hydraulically power operated. Manual control is provided for emergencies. An automatic flight control system is provided for pilot relief.

The small size of the airplane precludes the need for folding wings. The aft fuselage is readily removable to permit quick engine change.

### ELECTRONICS

- AN/ASQ-17 Electronic Control
- Control providing the following:

<table>
<thead>
<tr>
<th>Function</th>
<th>Equivalent to</th>
</tr>
</thead>
<tbody>
<tr>
<td>UHF Communication</td>
<td>AN/ARC-27</td>
</tr>
<tr>
<td>IFF</td>
<td>AN/APS-4B</td>
</tr>
<tr>
<td>SIF</td>
<td>AN/APS-99</td>
</tr>
<tr>
<td>USH ADI</td>
<td>AN/ARC-25</td>
</tr>
<tr>
<td>Self-contained Navigation</td>
<td>AN/ARC-146</td>
</tr>
<tr>
<td>(Dead Reckoning Computer)</td>
<td>AN/ARC-21</td>
</tr>
<tr>
<td>TVAM</td>
<td>AN/AVQ-3</td>
</tr>
<tr>
<td>Radar</td>
<td>AN/AM-3A</td>
</tr>
<tr>
<td>Autoplotter</td>
<td>Boeing 70</td>
</tr>
<tr>
<td>Store Arming</td>
<td>T-289</td>
</tr>
</tbody>
</table>

### DEVELOPMENT

Contract Approval dates:
- Contract No. (977-102), 85 airplanes, std. 9-7-57
- (977-101), 195 airplanes, std. 8-8-58
- (977-105), 150 airplanes, std. 10-9-59
- (977-100), 150 airplanes, std. 8-8-60

First flight: August 1956
First flight delivery: February 1960.

### DIMENSIONS

- Span ........... 27.5 ft.
- Length ........... 46.1 ft.
- Height ........... 15.0 ft.
- Max. Tare. ........... 7.5 ft.
- Turn Rad. (max) ........... 20.5 ft.
- Wing Area ........... 260 sq. ft.

### WEIGHS

<table>
<thead>
<tr>
<th>Loadings</th>
<th>LBS</th>
<th>L.F.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty</td>
<td>9,827</td>
<td>-</td>
</tr>
<tr>
<td>Basic</td>
<td>12,467</td>
<td>-</td>
</tr>
<tr>
<td>Flight Design</td>
<td>12,504</td>
<td>7.0p</td>
</tr>
<tr>
<td>Combat</td>
<td>12,750</td>
<td>5.4p</td>
</tr>
<tr>
<td>Max. Take-Off</td>
<td>20,500</td>
<td>3.5p</td>
</tr>
<tr>
<td>Max. Landing</td>
<td>14,500</td>
<td>6.0p</td>
</tr>
<tr>
<td>Airfield</td>
<td>16,000</td>
<td>5.2p</td>
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</tbody>
</table>

### FUEL AND OIL

<table>
<thead>
<tr>
<th>Gal.</th>
<th>No. Tanks</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>500</td>
<td>1</td>
<td>Wing</td>
</tr>
<tr>
<td>257</td>
<td>1</td>
<td>Fuselage</td>
</tr>
</tbody>
</table>

In-flight fueling provided:
- Fuel Type .......... MIL-K-5621 |
- Maximum usable fuel .......... 500 gal.

### OIL

4.0 gal, mounted on engine
OIL Spec ........... MIL-L-9793

### ORDNANCE

<table>
<thead>
<tr>
<th>No.</th>
<th>Location</th>
<th>Loading</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Fuselage</td>
<td>Stores up to 3375 lb.</td>
</tr>
<tr>
<td>2</td>
<td>Inset Wing</td>
<td>Stores up to 2000 lb. with roll restriction</td>
</tr>
</tbody>
</table>

GUNS

- 2 Lower Wing Outboard

- Mk-12 20 mm

- Guns with 100 rds. per Gun
### PERFORMANCE SUMMARY

| Take-off Loading Condition | Take-off Weight | S.L. Store Delivery | Close Support 1,000 Gallon Tank | Close Support 2-AGM-88A (Guided A) | (a) | (d) 
|----------------------------|----------------|---------------------|-------------------------------|----------------------------------|-----|----- 
|                            | lb             | lb                  | lb                            | lb                               | lb  | lb  
| Fuel—internal/external JUP-S1 | lb. | lb. | lb. | lb. | lb. | lb.  
|Payload                      | lb. | lb. | lb. | lb. | lb. | lb.  
| Wing loading                | lb. | lb. | lb. | lb. | lb. | lb.  
| Combat range (Tanks Retained)| n.m.i. | n.m.i. | n.m.i. | n.m.i. | n.m.i. | n.m.i.  
| Average cruising speed       | n.m.i. | n.m.i. | n.m.i. | n.m.i. | n.m.i. | n.m.i.  
| Cruising altitude           | n.m.i. | n.m.i. | n.m.i. | n.m.i. | n.m.i. | n.m.i.  
| Combat radius/mission time  | n.m.i./hr. | n.m.i./hr. | n.m.i./hr. | n.m.i./hr. | n.m.i./hr. | n.m.i./hr.  
| Average cruising speed       | n.m.i. | n.m.i. | n.m.i. | n.m.i. | n.m.i. | n.m.i.  

### COMBAT WEIGHT

<table>
<thead>
<tr>
<th>(a) Clean Airplane</th>
<th>(b) Store Retained</th>
<th>(c) Tank Dropped Stores Retained</th>
<th>(d) Tank Dropped Missiles Retained</th>
<th>(e) Tanks Retained</th>
</tr>
</thead>
<tbody>
<tr>
<td>lb.</td>
<td>lb.</td>
<td>lb.</td>
<td>lb.</td>
<td>lb.</td>
</tr>
<tr>
<td>Engine power</td>
<td>MILITARY</td>
<td>MILITARY</td>
<td>MILITARY</td>
<td>MILITARY</td>
</tr>
<tr>
<td>Fuel</td>
<td>lb.</td>
<td>lb.</td>
<td>lb.</td>
<td>lb.</td>
</tr>
<tr>
<td>Combat speed/comb. altitude</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
</tr>
<tr>
<td>Rate of climb/comb. altitude</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
</tr>
<tr>
<td>Combat ceiling (500 fpm)</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
</tr>
<tr>
<td>Max. speed at S.L.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
</tr>
<tr>
<td>Max. speed/altitude</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
<td>n.m.i.</td>
</tr>
</tbody>
</table>

### LANDING WEIGHT

| lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                | lb.                |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| (a) Military thrust, take-off weight, stores and tanks retained. | (b) With 2,000 Gallon Tank. The combat radius is 489 n.m. | (c) Fuel off-loaded to maintain maximum allowable take-off weight of 22,500 pounds. | (d) Ferry range is 2,000 n.m. If tanks are dropped when empty. | (e) All loadings include guns and ammunition. All loadings except clean airplane have options on all stations. | (f) Performance derived from MAC and DDC flight tests of the Models A-4A, A-4N and A-4C. | 

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**NOTES**

- (a) Military thrust, take-off weight, stores and tanks retained.
- (b) With 2,000 Gallon Tank. The combat radius is 489 n.m. 
- (c) Fuel off-loaded to maintain maximum allowable take-off weight of 22,500 pounds.
- (d) Ferry range is 2,000 n.m. If tanks are dropped when empty.
- (e) All loadings include guns and ammunition. All loadings except clean airplane have options on all stations.
- (f) Performance derived from MAC and DDC flight tests of the Models A-4A, A-4N and A-4C.
A-4C

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MINIMUM WIND OVER DECK REQUIRED FOR CATAPULTING
VS. GROSS WEIGHT (A), (B)

-15 0 10 15 20 25 30 35 40
GROSS WEIGHT - 1000 IBS.

WAVE-OFF ACCELERATION (F)

MINIMUM WIND OVER DECK REQUIRED FOR ARRESTING
VS. GROSS WEIGHT (D)

STANDARD DAY

MINIMUM CARRIER APPROACH SPEEDS (E)

GROSS WEIGHT - 1000 IBS.

NOTES

(A) Catapult takeoff speeds are derived from a correlation of NAVY minimums on A-4A, A-4B, A-4C, and A-4D.
(B) Catapult end speed is limited by a maximum longitudinal acceleration of 2.5 g's up to a gross weight of 19,400 lb. on the A-4A, 1 catapull and 19,300 lb. on the C-7 catapull, and a tow force of 94,400 lb. at higher gross weights.
(C) Minimum wind over deck required for C-7 catapull is 21.1 knots minus 12 knots.

(p) Engaging speed limited by 3.0 g maximum horizontal load factor.
(q) Approach speed limited by 2.5 g maximum longitudinal acceleration at fleet operational approach speeds.
(r) Spotting: A total of 277 airplanes can be accommodated in a landing spot on the flight and hangar decks of a CVN-77 class carrier.

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### Mission Summary - Alternate Loadings

<table>
<thead>
<tr>
<th>External Store Loading (A)</th>
<th>T.O.G.W.</th>
<th>Combat Radius (n. mi.)</th>
<th>Mission Time (hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK 28</td>
<td>18,443</td>
<td>115</td>
<td>160 (f)</td>
</tr>
<tr>
<td>AGM 12B (SHELL) A</td>
<td>19,860</td>
<td>225</td>
<td>250 (e)</td>
</tr>
<tr>
<td>300 Gal. Drop Tank</td>
<td>25,500</td>
<td>325</td>
<td>355 (b)</td>
</tr>
<tr>
<td>MK 51 Snakeyes</td>
<td>18,327</td>
<td>95</td>
<td>120 (d)</td>
</tr>
<tr>
<td>300 Gal. Drop Tanks</td>
<td>25,500</td>
<td>225</td>
<td>250 (e)</td>
</tr>
<tr>
<td>MK 51 Snakeyes</td>
<td>19,917</td>
<td>75 (b)</td>
<td>100 (b)</td>
</tr>
<tr>
<td>300 Gal. Drop Tanks</td>
<td>22,500</td>
<td>225</td>
<td>250 (e)</td>
</tr>
<tr>
<td>MK 51 Snakeyes</td>
<td>22,500</td>
<td>225</td>
<td>250 (e)</td>
</tr>
<tr>
<td>MK 52 Snakeyes</td>
<td>19,917</td>
<td>75 (b)</td>
<td>100 (b)</td>
</tr>
<tr>
<td>300 Gal. Drop Tanks</td>
<td>22,500</td>
<td>225</td>
<td>250 (e)</td>
</tr>
<tr>
<td>MK 51 Snakeyes</td>
<td>22,500</td>
<td>225</td>
<td>250 (e)</td>
</tr>
<tr>
<td>LAU 3A/A Rocket Pods</td>
<td>19,424</td>
<td>325</td>
<td>375 (f)</td>
</tr>
</tbody>
</table>

### Notes
- (A) Some loadings will not utilize entire fuel capacity due to takeoff weight limitations (amount of fuel off-loaded shown below takeoff gross weight).
- (B) All loadings include guns and ammunition and two wing pylons.
- (C) Data basis: NATC and DAM flight tests of the Models A-4A, A-4B, and A-4C.
- (D) Based on cruise at intermediate altitude instead of optimum cruise altitude to attain maximum climb plus cruise distance.
### Store Loading

#### Station No. 3
- Left Wing
- Suspension Equipment:
  - 1) Aero 20A Rocker Pylon
  - 1) Aero 2A Adapter
  - 1) MK-4A Missile Cluster Adapter (Lazy Dog)
  - 1) Aero 5A Launcher
  - 1) A/A 57x1 MGR
  - 1) A/A 57x3 MGR
  - 1) MGR
  - 1) TGT

#### Station No. 2
- Fuselage Centerline
- Suspension Equipment:
  - 1) Aero 20A Rocker Pylon
  - 1) Aero 2A Adapter
  - 1) MK-4A Missile Cluster Adapter (Lazy Dog)
  - 1) Aero 5A Launcher
  - 1) A/A 57x1 MGR
  - 1) A/A 57x3 MGR
  - 1) MGR
  - 1) TGT

#### Station No. 1
- Right Wing
- Suspension Equipment:
  - 1) Aero 20A Rocker Pylon
  - 1) Aero 2A Adapter
  - 1) MK-4A Missile Cluster Adapter (Lazy Dog)
  - 1) Aero 5A Launcher
  - 1) A/A 57x1 MGR
  - 1) A/A 57x3 MGR
  - 1) MGR
  - 1) TGT

### Bombs

#### MK-11
- MK-11 Snakeyes
- MK-52
- MK-53

#### MK-41
- 1) XM17 Demolition
- 5) AN-M61 (250 lb Frg.)
- 5) AN-M61 (250 lb Frg.)
- 5) AN-M61 (250 lb Frg.)
- 1) AN-M61 (500 lb GP)
- 1) AN-M61 (1000 lb GP)
- 1) AN-M61 (1000 lb GP)

#### MK-50
- 1) AN-M50A1 (100 lb GP)
- 1) AN-M50A1 (500 lb GP)
- 1) AN-M50A1 (500 lb GP)
- 1) AN-M50A1 (1000 lb GP)
- 1) AN-M50A1 (1000 lb GP)

#### MK-27
- 1) MK-27A Chemical
- 1) MK-27 Fire Bomb
- 1) MK-27 Fire Bomb

#### MK-77
- 1) MK-77A Chemical
- 1) MK-77 Fire Bomb
- 1) MK-77 Fire Bomb

#### CBU-1/A
- 1) CBU-1/A
- 1) CBU-1/A
- 1) CBU-1/A
## STORE LOADING

<table>
<thead>
<tr>
<th>Ordinance</th>
<th>Station No. 1 (Left Wing)</th>
<th>Station No. 2 (Pylon Centerline)</th>
<th>Station No. 1 (Right Wing)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bombs (Continued)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1) Aero 7A (Lazy Dog)</td>
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<td>1) MK-44 Cluster Adapter (Lazy Dog)</td>
<td>1) Aero 7A (Lazy Dog)</td>
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<tr>
<td>1) MK-44 Cluster Adapter (Lazy Dog)</td>
<td>1) MK-44 Cluster Adapter (Lazy Dog)</td>
<td>1) MK-44 Cluster Adapter (Lazy Dog)</td>
<td>1) MK-44 Cluster Adapter (Lazy Dog)</td>
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<tr>
<td><strong>Guided Missiles</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1) AGM-12A, -12B Bullpup A</td>
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<td>1) AGM-12A, -12B Bullpup A</td>
<td>1) AGM-12A, -12B Bullpup A</td>
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<tr>
<td>1) AGM-12C Bullpup B</td>
<td></td>
<td>1) Sidewinder 1A</td>
<td>1) AGM-12C Bullpup B</td>
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<tr>
<td>1) Sidewinder 1A</td>
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<td>1) Sidewinder 1A</td>
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<tr>
<td><strong>Rocket Launchers</strong></td>
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<tr>
<td>2) LAU-20/A</td>
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<td>2) LAU-33/A/B</td>
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<tr>
<td>2) LAU-10/A</td>
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<td>2) LAU-10/A</td>
<td>2) LAU-10/A</td>
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<tr>
<td><strong>Mines</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1) MK-26 with MK-26 Parapack or MK-26 Parapack</td>
<td>1) MK-26 Drill Mine with MK-4, -5 Drill Kit</td>
<td>1) MK-26 with MK-26 Parapack or MK-26 Parapack</td>
<td></td>
</tr>
<tr>
<td>1) MK-26 Drill Mine with MK-4 Drill Kit</td>
<td>1) MK-36 with MK-37 Parapack</td>
<td>1) MK-36 Drill Mine with MK-4 Drill Kit</td>
<td></td>
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<tr>
<td>1) MK-36 Drill Mine with MK-4 Drill Kit</td>
<td>1) MK-36 Drill Mine with MK-4 Drill Kit</td>
<td>1) MK-36 Drill Mine with MK-4 Drill Kit</td>
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<tr>
<td>1) MK-50 with MK-50 Parapack</td>
<td>1) MK-50 with MK-50 Parapack</td>
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<tr>
<td>1) MK-50 Parapack</td>
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<tr>
<td>1) MK-52 with MK-20 Parapack or MK-20 Parapack</td>
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<tr>
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<td>1) MK-52 with MK-20 Parapack or MK-20 Parapack</td>
<td></td>
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<tr>
<td>1) MK-55 with MK-26, Mod 1 Parapack</td>
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<td>1) MK-55 with MK-26, Mod 1 Parapack</td>
<td></td>
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<tr>
<td>1) MK-56 with MK-26, Mod 1 Parapack</td>
<td>1) MK-56 with MK-26, Mod 1 Parapack</td>
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</table>
### Store Loading

#### Ordnance

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<tr>
<th>Station No. 3</th>
<th>Station No. 2</th>
<th>Station No. 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Wing</td>
<td>Prowlage Centerline</td>
<td>Right Wing</td>
</tr>
<tr>
<td>1) 350 Gal Ext Tank</td>
<td>1) 150 Gal Ext Tank</td>
<td>1) 150 Gal Ext Tank</td>
</tr>
<tr>
<td>1) 300 Gal Ext Tank</td>
<td>1) 300 Gal Ext Tank</td>
<td>1) 300 Gal Ext Tank</td>
</tr>
<tr>
<td></td>
<td>1) 400 Gal Ext Tank</td>
<td></td>
</tr>
<tr>
<td>1) MK-12 Mod O Chemical Tank</td>
<td>1) Aero 14E Spray Tank</td>
<td>1) MK-12 Mod O Chemical Tank</td>
</tr>
<tr>
<td>1) ALQ-31 ECM Pod</td>
<td>1) ALQ-31 ECM Pod</td>
<td>1) ALQ-31 ECM Pod</td>
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<tr>
<td>1) ALQ-31A Pod</td>
<td>1) ALQ-31A Pod</td>
<td>1) ALQ-31A Pod</td>
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<tr>
<td>1) MK-100 Chaff Dispenser</td>
<td>1) MK-100 Chaff Dispenser</td>
<td>1) MK-100 Chaff Dispenser</td>
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<tr>
<td>1) MA-119A Film Delivery Container</td>
<td>1) LAU-10/A Leaflet Dispenser</td>
<td>1) LAU-10/A Leaflet Dispenser</td>
</tr>
<tr>
<td>1) LAU-10/A Leaflet Dispenser</td>
<td>1) LAU-10/A Leaflet Dispenser</td>
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<tr>
<td>1) GCU-85 Pod-Mounted</td>
<td>1) AN/AVMA Pod-Mounted</td>
<td>1) GCU-85 Pod-Mounted</td>
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</tbody>
</table>

#### Tracks and Pods

- MK-28/MK-124
- MK-47/BUU-83 /BUU-18
- MK-57/BUU-12 /BUU-19
- BUU-13E

#### Special Weapons

1. MK-5 Mods 7, 10 (Parachute Flares)
2. MK-6 Mods 5, 6 (Parachute Flares)
3. MK-5 Mods 2A, 3 (Parachute Flares)
4. MK-6 Mod 3 Float Light

#### Pyrotechnics

- MK-5 Mods 7, 10 (Parachute Flares)
- MK-6 Mods 5, 6 (Parachute Flares)
- MK-5 Mods 2A, 3 (Parachute Flares)
- MK-6 Mod 3 Float Light
### STORE LOADING

**Left Wing**

<table>
<thead>
<tr>
<th>Ordinance</th>
<th>Station No. 3</th>
<th>Station No. 2</th>
<th>Station No. 1</th>
<th>Station No. 3</th>
<th>Station No. 2</th>
<th>Station No. 1</th>
<th>Station No. 3</th>
<th>Station No. 2</th>
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</thead>
<tbody>
<tr>
<td>1) MK-35 WEF</td>
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<td>2) MK-37 WEF</td>
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<td>3) MK-38 WEF</td>
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<tr>
<td>4) MK-76 Mod 4, 5 (With MK-12 Lug)</td>
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<td>4) MK-76 Mod 4, 5 (With MK-12 Lug)</td>
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<td>6) MK-106 Mod 3</td>
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<td>7) MK-76 Mod 5 (With MK-15 Lug)</td>
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<td>3) FASU Pipe Organ</td>
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<tr>
<td>4) LAU-24 and A/A783-3 PRCH or MK-36 Mod 3 (With MK-18 Lug)</td>
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**Right Wing**

1) MK-35 Mod 0 Sidewinder target rocket

1) MK-36 Mod 0 Sidewinder target rocket
hai-hi-hi
Warm-Up, Taxi, Takeoff: 5 min
S.L. N/R
Climb: On course to opt cruise alt with M11 power
Cruise Out: At max range speed at opt cruise alt (drop fuel tanks when empty)
Combat: 5 min at MSL (stores on, no distance gained) (drop stores)
Cruise Back: At max range speed at opt alt
Reserve: 5% initial fuel + 20 min at max endurance speed at S.L.

sea level shore delivery
Warm-Up, Taxi, Takeoff: 5 min
S.L. N/R
Climb: On course to opt cruise alt with M11 power
Cruise Out: At max range speed at opt cruise alt (drop fuel tanks when empty)
Descend: To S.L. when 50 n mi from target (no fuel used, no distance gained)
Run In: 50 n mi at VM in MSL
Combat: 5 min at MSL (stores on, no distance gained) stores dropped after combat
Runout: 50 n mi at Vmax at MSL at S.L.
Climb: On course to opt cruise alt with M11 power
Cruise Back: At max range speed at opt alt
Reserve: 5% initial fuel + 20 min at max endurance speed at S.L.

close air support
Warm-Up, Taxi, Takeoff: 5 min
S.L. N/R
Climb: On course to opt cruise alt with M11 power
Cruise Out: At max range speed at opt cruise alt (drop fuel tanks when empty)
Descend: To 3,000 ft. (no fuel used, no distance gained)
Lettor: 1 hr at max end speed no distance gained, stores dropped at end of lettor
Climb: On course to opt cruise alt with M11 power
Cruise Back: At max range speed at opt alt
Reserve: 5% initial fuel + 20 min at max end speed at S.L.

ferry range
Warm-Up, Taxi, Takeoff: 5 min
S.L. N/R
Climb: On course to opt cruise alt with M11 power
Cruise Out: At max range speed at opt cruise alt (drop fuel tanks when empty)
Reserve: 5% initial fuel + 20 min at max end speed at S.L.

loading condition column number
NOTES

HI-12-12-12
Warm-Up, Taxi, Takeoff: 5 min S.L. NWP
Climb: On course to opt cruise alt with N11 power
Cruise Out: At max range speed at opt cruise alt (drop fuel tanks when empty)
Descend: To S.L. when 500/200 n mi from target (no fuel used, no distance gained)
Cruise: At max range speed at S.L. (drop fuel tanks when empty)
Combat: 5 Min. at NRT (stores on, no distance gained)
Drop Stores
Cruise: At max range speed at S.L. to a point 600/200 n mi from target
Climb: On course to opt cruise alt with N11 power
Cruise Back: At max range speed at opt alt
Reserve: 5% initial fuel + 20 min at max end speed at S.L.

HI-12-10
Warm-Up, Taxi, Takeoff: 5 min S.L. NWP
Climb: On course to opt cruise alt with N11 power
Cruise Out: At max range speed at opt cruise alt (drop fuel tanks when empty)
Descend: To S.L. (no fuel used, no distance gained)
Combat: 3 Min. at NRT (stores on, no distance gained)
Drop Stores
Climb: On course to opt cruise alt with N11 power
Cruise Back: At max range speed at opt alt
Reserve: 5% initial fuel + 20 min at max end speed at S.L.

HI-12-11
Warm-Up, Taxi, Takeoff: 5 min S.L. NWP
Climb: On course to opt cruise alt with N11 power
Cruise Out: At max range speed at opt cruise alt (drop fuel tanks when empty)
Descend: To S.L. (no fuel used, no distance gained)
Combat: 3 Min. at NRT (stores on, no distance gained)
Drop Stores
Climb: On course to opt cruise alt with N11 power
Cruise Back: At max range speed at opt alt
Reserve: 5% initial fuel + 20 min at max end speed at S.L.