| NORMAL STEP FU | ULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|----------------|--------------------|------------------|---------------------|
|----------------|--------------------|------------------|---------------------|

PREFLIGHT CHECK

| noi | 1. | LANDING GEAR | DOWN |
|--------------|-----|---------------------------------------|----------------------------------|
| pect | 2. | WHEEL CHOCKS | PLACED |
| al Ins | 3. | AUX INTAKE DOORS | CLOSED |
| Exterr | 4. | ARRESTING HOOK | UP |
| ш | 5. | DRAG CHUTE | STOWED |
| | 6. | PYLON ORDNANCE | AS REQUIRED |
| | 7. | RETRACTABLE STEPS | STOWED |
| nel . | 1. | CIRCUIT BREAKERS | CHECK |
| le Pa | 2. | CHAFF and FLARES | RESET and OFF |
| onsc | 3. | PITCH and YAW DAMPERS | OFF |
| -eft C | 4. | RUDDER TRIM | CENTRED |
| | 5. | RADAR MODE SELECTOR | OFF |
| | 6. | FLAP LEVER | THUMB SW |
| | 7. | THROTTLES | OFF |
| - | 8. | SPEED BRAKE SWITCH | NEUTRAL |
| | 9. | FLAP THUMB SWITCH | UP |
| | 10. | NOSE STRUT SWITCH | RETRACT |
| Panel | 1. | FUEL SHUTOFF SWITCHES | LEFT and RIGHT, GUARDS CLOSED |
| ertica | 2. | ARMAMENT LIGHT CONTROL KNOB | AS REQUIRED |
| eft V | 3. | LANDING & TAXI LIGHT SWITCH | OFF |
| | 4. | LANDING GEAR ALTERNATE RELEASE HANDLE | FULLY STOWED |
| | 5. | AIM-9 MISSILE VOLUME CONTROL | FULLY OFF (CCW) |
| | 6. | ARMAMENT and JETTISON SWITCHES | OFF and SAFE |
| nel . | 1. | LANDING GEAR LEVER | DOWN |
| ut Dg | 2. | DRAG CHUTE HANDLE | IN |
| irume. | 3. | FLIGHT INSTRUMENTS | CHECK and SET |
| Inst | 4. | OPTICAL SIGHT MODE SELECTOR | AS REQUIRED |
| | 5. | FILM CAMERA EXPOSURE | SET |
| | 6. | AUX INTAKE DOORS INDICATOR | BARBER POLE |
| stal inel | 1. | UHF RADIO | AS REQUIRED |
| Pede Pê | 2. | TACAN | AS REQUIRED |
| | 3. | ANTENNA SWITCH | AS REQUIRED |
| | | | |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

PREFLIGHT CHECK

| nel nt) | 4. | NAV MODE SWITCH | AS REQUIRED |
|-------------|-------|---|---------------------------------------|
| . (cc | 5. | RUDDER PEDALS | ADJUST |
| edest | 6. | BRAKES | CHECK |
| ď 1 | 7. | CIRCUIT BREAKERS | CHECK |
| Panel | 1. | COCKPIT PRESSURISATION and TEMPERATURE CONTROLS | AS REQUIRED |
| ertica | 2. | ANTI-ICE SWITCHES | OFF |
| ght Ve | 3. | EXTERNAL FUEL TRANSFER SWITCHES | OFF |
| Ë, | 4. | FUEL BOOST PUMP SWITCHES | RIGHT and LEFT |
| | 5. | CROSSFEED SWITCH | OFF |
| | 6. | AUTO BALANCE SWITCH | CENTRED |
| | 7. | CANOPY JETTISON T-HANDLE | IN |
| | 8. | BATTERY SWITCH | BATT |
| | 9. | AUX INTAKE DOORS INDICATOR | CLOSE |
| | 10. | GENERATOR SWITCHES | L GEN and R GEN |
| nsole Panel | 1. | OXYGEN SYSTEM - Supply Pressure Gauge - Quantity Indicator - Hoses and Connections | CHECK 65–110 PSI Check Check |
| Right Cor | lt is | WARNING possible for the oxygen supply lever to stop in an intermediate position between OFF and ON. flow indicator blinkers for proper functioning. | Push the lever fully ON and check the |
| | 2. | OXYGEN OPERATION - Supply Lever | CHECK ON |

Supply Lever
 Diluter Lever

- Emergency Lever

- Oxygen and Communication Leads - Mask on and Check Blinker

3. IFF/SIF

| | •••••• |
|-------------------------------|----------------------------|
| 4. FUEL & OXYGEN CHECK SWITCH | GAGE TEST and QTY CHECK |
| 5. COMPASS SWITCH | AS REQUIRED |
| 6. INTERIOR LIGHTS | AS REQUIRED |
| 7. EXTERIOR LIGHTS | AS REQUIRED |
| 8. ROTATING BEACON | AS REQUIRED |
| 9. LIGHT WARNING TEST SWITCH | TEST |
| END | |

NORMAL

NORMAL

Connected

Check

STANDBY

•

-ND

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|

WEAPONS DELIVERY PREFLIGHT CHECK

| nel | 1. | BOMBS ARM SWITCH | | | | SA | FE |
|-------------|---|---|-------------------------|---------------------|-----------------|---|--------|
| al Pa | 2. | 2. GUNS MSL & CAMR SWITCH | | | OFI | F and G | UARDED |
| lertic. | 3. | 3. EXTERNAL STORES SELECTOR | | | SAFE | | |
| _eft \ | 4. | ARMAMENT POSITION SELECTOR SWITCHE | S (7) | | | OF | F |
| | 5. | SELECT JETTISON SWITCH | | | | OF | F |
| aker Panels | 1. LEFT CONSOLE PANEL ARMAMENT CIRCUIT BREAKERS - Left and Right AIM-9 Power | | | | | CHECK | |
| Circuit Bre | 2. PEDESTAL PANEL ARMAMENT CIRCUIT BREAKERS Wpn Pwr Left Inbd, Left Outbd, Center Line Wpn Pwr Right Indb, and Right Outbd Jettison Control Emergency All Jettison Wpn Release Left and Right AIM-9 Cont Won Mode Sel & AIM-9-Inter | | | | | CHECK In In In In In In In | |
| - | 3. | MISSION ORDNANCE | | | INSTALLED | | |
| - | 4. | EXTERNAL POWER | | | AS REQUIRED | | |
| | | If external power is used, the Before Taxi Weapons Delivery Che | ecks may t Wi Tip | ng Positio Outer | ted before | engine sta Center Line | rt. |
| | | Store Station Nr. | 7 + 1 | 6+2 | 5 + 3 | 4 | |
| | | AN/ASQ-T50 TCTS Pod BDU-33 BDU-50HD / BDU-50LD CBU-52B F-5 150Gal Fuel tank / F-5 275Gal Fuel Tank GAR-8 GBU-12 / BDU-50LGB LAU-3 - 19×2.75' Rockets / LAU-3 - 19×FFAR LAU-68 - 7×2.75' Rockets / LAU-68 - 7×FFAR M117 Mk-82 / Mk-82 Snakeye Mk-83 Mk-84 MXU-648 Travel Pod Smokewinder SUU-25, 8×LLU-2 Flares | • | | | | |
| | | END | | | • • • • • • • • | ••••• | |
| | | ENU | | | | | |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

BEFORE STARTING ENGINES CHECK



| NORMAL STEP FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|---------------------------------|------------------|---------------------|
|---------------------------------|------------------|---------------------|

STARTING ENGINES

| ine | 1. | EXTERNAL AIR | APPLY | |
|-----------|--|---|---|--|
| t Eng | 2. | AT 10% RPM, START BUTTON | PUSH | |
| Left | 3. | THROTTLE | IDLE | |
| | | © CAUTION If lightoff does not occur within 5 seconds, retard throttle to OFF and continue motoring for at I before attempting another start. If EGT reaches 845°C, retard throttle to off, continue motoring | least 1 minute to purge engine g for 1 minute to cool engine. | |
| | | NOTE An EGT of less than 200°C cannot be read with the EHU-31A/A indi therefore, the ON position will be used as the minimum needle pos | cator; ition. | |
| | 4. | ENGINE INSTRUMENTS - Engine RPM - EGT - Nozzle Position - Oil Pressure | CHECK WITHIN LIMITS 49%–52% Indication 70%–80% 5–20 psi | |
| - | 5. | HYDRAULIC PRESSURE | 2800-3200 PSI | |
| | 6. | GENERATOR CAUTION LIGHT | OUT | |
| | | NOTE If light is on, check idle rpm. If idle rpm is low, advance throttle in an attempt to get generator of | on line before generator reset. | |
| | 7. | AUX INTAKE DOORS INDICATOR | BARBER POLE | |
| ine | | NOTE | | |
| it Eng | 4 | | | |
| Righ | 1. 2 | ALIX INTAKE DOORS INDICATOR | OPEN | |
| ц | 1. | ENGINE POWER and AIR | DISCONNECT | |
| d Sta | 2. | L ENGINE RPM | 95% | |
| Crossblee | Extreme care should be taken to avoid injury to ramp personnel caused by exhaust gasses or blowing equipment since left eng operating near military power. It is recommended that this procedure be used only in isolated areas. | | | |
| | 3. | R ENGINE START BUTTON | PUSH | |
| | 4. | AT 10% RPM, R THROTTLE | IDLE | |
| | 5. | ENGINE INSTRUMENTS | CHECK WITHIN LIMITS | |
| | 6. | L THROTTLE After R engine is at idle RPM (49–52%). | IDLE | |
| | 7. | GENERATOR CAUTION LIGHTS | OUT | |
| | 8. | AUX INTAKE DOOR INDICATOR | OPEN | |
| | 9. | HYDRAULIC PRESSURE END | 2800–3200 PSI | |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

BEFORE TAXI CHECKS

| | 1. | EXTERNA | L POWER an | nd AIR | DISCONNECT | |
|----------------|---|---|--|--|----------------------------------|--|
| 2 | 2. | CIRCUIT B | BREAKERS | | CHECK | |
| <u>,</u> | 3. | | ODE SELEC ⁻ | TOR | OFF | |
| IISOIE, IIIION | | | el. | | | |
| | 4. | SPEED BR | IN | | | |
| | Che inter | ck that speed brak connect. | e retracts and horiz | ontal tail moves trailing edge up; this indicates proper spe | eed brake and horizontal tail | |
| | | | To avoid | WARNING injury, ensure ground personnel clear before actuating cor | ntrols | |
| - | 5. | FLAP THU | MB SWITCH | | AUTO | |
| | Flap | s should extend to | full. Verify that hori | zontal tail moves trailing edge down as flaps extend. | | |
| _ | 6. | DAMPER S | SWITCHES | | YAW and PITCH | |
| - | 7. | - Pitch DAI - Pitch Damp - Pitch Damp | MPER CUTC er Cutoff switch er switch | OFF SWITCH | CHECK Actuate Moves to OFF | |
| | 8. | PITCH DA | MPER SWIT | СН | PITCH | |
| | lf the Dise | e horizontal tail mo engage pitch damp | ves when pitch dan er. | nper is reengade, a malfunctioning damper is indicated. | | |
| | 9. FLIGHT CONTROLS CHECK | | | | | |
| ž _ | 1. | PITCH TRI | Μ | | CHECK and SET | |
| מ | | PITCH T | RIM INCREME | ENTS FOR OPTIMUM TAKEOFF PERFORM | ANCE | |
| ar, a | | % MAC | Increments | Approximate configuration | | |
| ۵ ۵ | | Aft of 18 | 6 | Without gun ammo, without stores | | |
| AL ICI | | 14 to 18 | 7 | Fuel tanks, ammo, missiles | | |
| ĩ H | | 10 to 14 | 8 | Fuel tanks, ammo, missiles, bombs, rockets | | |
| | | I wu of 10 | 9 | Gun ammo, missues, bomos, fockets, containers | | |
| . sırur | 2. | AILERON ⁻ | TRIM | | CHECK and SET | |
| ≤ _ | 3. ALTIMETER | | | | ELECT | |
| | After setting the current field barometric pressure, place the function switch momentarily at PNEU. Check that PNEU flag is visible and that indicated altitude is with \pm 75 feet of field elevation. Place the function switch momentarily at ELECT. Check that PNEU flag is not visible and that the indicated altitude is within \pm feet of field elevation. The altitudes indicated by the PNEU and ELECT must be within feet of each other. | | | | | |
| | © CAUTION Do not rotate the barometric set knob at a rapid rate or exert force to overcome momentary binding. If binding occurs, rotate the setting knob a full turn in the opposite direction and approach the desired setting carefully. | | | | | |
| - | 4. | STANDBY | ATTITUDE II | NDICATOR | CHECK, SET and UNCAGE | |
| | 5. | CANOPY a | and SEAT SA | FETY PINS | REMOVED | |

 $\label{eq:THR} THR = Throttle - LCP = Left Console Panel - LVP = Left Vertical Panel - IP = Instrument Panel \\ PP = Pedestal Panel - ST = Stick - RVP = Right Vertical Panel - RCP = Right Console Panel \\ Provement Panel - RCP = Right Vertical Panel - RCP = Right Console Panel \\ Provement Panel - RCP = Right Vertical Panel - RCP = Ri$

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

| | | BEFORE TAXI CHECKS | |
|-------------------|---------------------------|---|--|
| i j t | 6. | ARRESTING HOOK SAFETY PIN | CHECK REMOVED |
| t, and St (cor | 7. | WHEEL BRAKES | APPLY HEAVY PRESSURE |
| l, Sea | Hea ⁻ effic | vy pressure application to both brake pedals will set automatic brake adjusters and maintain mi iency. | nimum pedal travel for proper braking |
| ment Pane | 8. | NOSEWHEEL STEERING | ENGAGE Apply L and R rudder, and hold each for 5 seconds. |
| Instru | Thi | NOTE is action applies maximum output torque to the nosewheel steering system. Dependent on factor riction, and gross weight, the nosewheel may not deflect fully. After test, ensure nosewheel steer | ors such as ramp surface texture, tire ring is operable during normal taxi. |
| | | END | |
| | | BEFORE TAXI WEAPONS DELIVERY CHECK | S |
| KB.26A Camera | 1. | CAMERA Camera Run switch (Advances film to first frame will be clear when required.) | CHECK Press and hold (1s) |
| Radar | 1. | RADAR MODE SELECTOR - FAIL light | OFF Out |
| Q-159(v)-31 | | S CAUTION If FAIL light comes on, waveguide pressurization of radar is not sufficient f | or operation. |
| AN/APC | 2. | RADAR INDICATOR CONTROLS - SCALE knob - VIDEO knob - CURSOR knob - PER knob - BRIGHT knob - PITCH knob | SET Fully Counterclockwise Fully Counterclockwise Fully Clockwise Fully Clockwise Fully Clockwise Set at Index Mark |
| | 3. | DOGFIGHT/RESUME SEARCH BUTTON | PRESS (RESUME) |
| | 4. | RADAR MODE SELECTOR | STBY |
| ſ | 5. | RANGE SELECTOR | 20 |
| | Hori | zon bar and elevation cursor should appear on the radar scope within 60 seconds. | |
| | | NOTE No acqisition symbol display in 40-mile range. | |
| | | Radar emission area (90 degrees each side of aircraft nose and extending to 50 feet) sho | ould be clear of personnel. |
| | | © CAUTION During ground operations, do not leave the radar in OPER, STBY, or TEST for mor prevent radar malfunction from overheat. If necessary, turn radar OFF until immedi If FAIL light comes on anytime during check, cycle mode slector to OFF to mode being tested. If FAIL light remains on, turn radar off. | e than 10 minutes to ately prior to takeoff. [;] and back |

 $\label{eq:THR} THR = Throttle - LCP = Left Console Panel - LVP = Left Vertical Panel - IP = Instrument Panel \\ PP = Pedestal Panel - ST = Stick - RVP = Right Vertical Panel - RCP = Right Console Panel \\ Provement Panel - RCP = Right Vertical Pane$

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

BEFORE TAXI WEAPONS DELIVERY CHECKS

| 6. SIGHT | MODE SELECTOR | MSL |
|--|---|--|
| 7. RADAF - SCALE - PITCH - CURSC - BRIGH | knob knob knob R knob F knob | SET Clockwse until grid is visible Horizon 2° above ARL Mark Optimum view of symbols Optimum brightness |
| 8. RADAF - FAIL lig | nt MODE SELECTOR | OPER Out |
| The search phase | can be activated after a 3- to 5-minute warmup in STBY or after 3 to 5 minutes a | fter going directly from OFF to OPER. |
| 9. RADAF - PER kn - VIDEO | t INDICATOR CONTROLS ob knob | SET Obtain elevation cursor steps Optimum video noise |
| 10. B-SWE - Azimut - Left - Right - Elevatio | EP | CHECK ±42° 3° Down 3° Up Indicating 3° step. |
| 11. ELEV C - Up - Down - Set | ONTROL | CHECK +30° -30° At 0 |
| The ful | functionality of the AN/APQ-159(V)-3 test mode is not simulated. The mode can s ck procedures determine go/no-go status for each mode of operation by correct i BIT | till be used for sight checks. eticle display indicators. |
| Sight Mode MAN | selected Function(s) tested BIT1 Range bar, azimuth and elevation servos, and manual depression si BIT2 In range min range and g limit indicators (markets) | n/cos computer. |
| A/A1-GUNS A/A2 | BIT1 Range bar, azimuth and elevation servos. BIT2 Gyro lead angle, mag and procession current and reference v | roltage. |
| MSL | BIT1Range bar, azimuth and elevation servos, and wing twist comBIT2 R_{max} , A_N Max, and reference voltage. | iputer. |
| 1. MODE | SELECTOR | MAN |
| 2. RET IN | ТКЛОВ | ADJUST INTENSITY |
| 3. BIT SW | ITCH; BIT1, BIT2 | CHECK RETICLE |
| 4. RET DI | | ADJUST |
| Align pipper with approximately 18 | line of sight between top of camera periscope and junction of pitot boom and rade 2 ± 8 mils. | ome. Readout window should read |
| 5. SIGHT | CAGE SWITCH | PRESS and HOLD |
| Reticle should m | we up to ARL, return to position selected in step 10 as the switch is released. | |
| 6. DOGFI | GHT/RESUME SEARCH BUTTON | AFT (DG) |
| Reticle should m | ive up to near ARL. | |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

BEFORE TAXI WEAPONS DELIVERY CHECKS

| nt.) | 7. BIT SWITCH; BIT1, BIT2 | CHECK RETICLE |
|-------------|--|-----------------|
| 0000 | 8. DOGFIGHT/RESUME SEARCH BUTTON | FORWARD (DM) |
| ŐS | Reticle should move down slightly below ARL. | |
| 31 LO | 9. RET DEPR KNOB | SET TO 000 |
| С С С | 10. MODE SELECTOR | A/A2 |
| AN/A | 11. BIT SWITCH; BIT1, BIT2 | CHECK RETICLE |
| | 12. MODE SELECTOR | A/A1 |
| | 13. BIT SWITCH; BIT1, BIT2 | CHECK RETICLE |
| | 14. MODE SELECTOR | MSL |
| | 15. BIT SWITCH; BIT1, BIT2 | CHECK RETICLE |
| | 16. DOGFIGHT/RESUME SEARCH BUTTON | CENTER (RESUME) |
| | 17. SIGHT MODE SELECTOR | MSL |
| | 18. RADAR MODE SELECTOR | OFF |
| | END | |

GENERAL GROUND OPERATIONS

⊘ CAUTION

Ensure that radar is OFF or in STBY to avoid danger to personnel.

Do not leave the radar in OPER, STBY, or TEST for more than 10 minutes to prevent radar malfunction from overheat. If necessary, turn radar OFF until immediately prior to takeoff.

| 1. | ENGINE RPM | 57% WHEN TAXIING |
|----|---------------------------|------------------|
| 2. | TAXI ROUTE | CLEAR |
| 3. | DANGER AREAS FORE and AFT | CLEAR |

⊘ CAUTION

Do not exceed 65 knots with nosewheel steering engaged.

Throttles and main wheel brakes should be used to control speed so as to avoid roll-over during steering.

Be aware of tail, wing, and nose swing during turns. Be aware of ground clearance when manoeuvring over uneven ground or near lights and markings set into the ground.

If taxiing with open canopy, ensure that speed does not exceed 50 knots.

NOTE

Nosewheel steering effectiveness is redced when taxiing on ice and hard packed snow. A combination of nosewheel steering and wheel braking should be used for directional control. The noswheel will skid sideways easily, increasing the possibility of tire damage. If conditions permit, taxi with one engine idle and the other at high RPM (70% to 80%) to provide more heat for the cockpit and for canopy and windshield defrosting. However, reduced speeds will generally be necessary when taxiing over the uneven snow and ice covered surfaces common in low temperature environments.

Cold weather

WARNING

Make sure all instruments have warmed up sufficiently to ensure normal operation. Check for sluggish instruments while taxiing.

| NORMAL STEP FULL PROCEDURE STEP CONDITIONAL STEP NON-FUNC |
|---|
|---|

GENERAL GROUND OPERATIONS



| NORMAL STEP FULL PROCEDURE STEP CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|--|---------------------|
|--|---------------------|

TAXI CHECKS

| 1. | WHEEL CHOCKS | REMOVED |
|-------|---|---|
| 2. | PERMISSION TO TAXI | REQUESTED |
| 3. | LDG & TAXI LIGHT SWITCH | ON |
| 4. | WHEEL BRAKES | RELEASE |
| 5. | NOSEWHEEL STEERING | ENGAGE |
| Che | ck operation at slow taxi speed. Ensure steering mode is terminated when nosewheel steering butto | on is disengaged. |
| | NOTE If taxi route and conditions permit, momentarily releasing the nosewheel s may allow an operational check of the shimmy damper. | teering button |
| lf no | Sewheel steering does not function properly, takeoff should not be attempted, as shimmy dam nosewheel shimmy can induce structural failure of the nose gear | ping may not be available. Undamped strut. |
| 6. | FLIGHT INSTRUMENTS | СНЕСК |
| 7. | NAVIGATION EQUIPMENT | CHECK |
| | | 1 |

BEFORE TAKEOFF CHECKS

| ole | 1. | NOSE STRUT | EXTEND |
|-----------------|-----|---|---|
| Left Panel Cons | lf | WARNING Failure of nose gear to extend (hike) may indicate a nose gear malfunction and takeoff s takeoff is made with nose gear dehiked, expect up to 25% increase in airspeed for rotation, and | should not be attempted. d up to 50% increase in takeoff roll. |
| | 2. | RADAR | AS REQUIRED |
| | 3. | PINS, BELT, and SHOULDER HARNESS | CHECK |
| RVP | 4. | ANTI-ICE SWITCHES | AS REQUIRED |
| nel | 5. | IFF/SIF | AS REQUIRED |
| le Pa | 6. | FLIGHT CONTROLS | CHECK |
| onsc | 7. | CANOPY | CLOSED |
| ght C | 8. | CANOPY LIGHT | OUT |
| Ē | 9. | CAUTION and WARNING LIGHTS | OUT |
| | | NOTE ENGINE ANTI-ICE ON light will be on if engine anti-ice switch is at EN | NGINE. |
| | 10. | PERMISSION TO TAKEOFF | REQUESTED |
| • | | END | |
| | | | |

| NORMAL STE | P | FULL PROCEDURE | - | | | INV | UN-FUNCTIO | |
|--|--|--|---|---|--|---|--|--|
| | | | TAKE | OFF | | | | |
| | | | | | | | | |
| Avoid wake turbulence to 4 minutes behind a | e. Allow a m an extremel | inimum of 2 minutes / large aircraft. With e to remain above an | before take effective cro nd upwind o | ARNING eoff behind a la osswinds of 5 k of the preceding | rge multi-eng nots or abov g aircraft's flig | gine aircra e, the inte ght path. | ft or helicopte rval may be re | r. Extend the inte duced, but atter |
| 1. WHEEL BI | RAKES | | | | | | А | PPLY |
| 2. THROTTL | ES | | | | | | | MIL |
| | | | ١ | IOTE | | | | |
| On icy or wet runway | s, the aircra/ | Ift may skid during M | IIL power ru | nup even thou | gh the brakes att less than | s are locke MIL powe | ed. It may be r er. | necessary to run |
| | | | | | | | | |
| 3. ENGINE IN | 151 KUI | MEN15 | | | | | CI | |
| | VI | | | | | | 11 665 | /1±∠% 5–675°C |
| - Nozzle posi | ition | | | | | | 000 | -16% |
| - Acceleratio | n time | | | | | | Accelerat | tion within 7s |
| | | | | | | | stabilize | d within 10s. |
| 4. WHEEL BI | RAKES | | | | | | RE | LEASE |
| 5. NOSEWHI | EEL STI | EERING | | | | | AS RE | EQUIRED |
| | | Do note exceed | S C 65 knots v | AUTION vith nosewheel | steering eng | aged. | | |
| | lf n | Do note exceed osewheel shimmy oc | © C 1 65 knots v A W ccurs, taked | AUTION vith nosewheel ARNING off should be ab | steering eng: ported if conc | aged. litions per | mit. | |
| 6. THROTTL | lf n ES | Do note exceed osewheel shimmy oc | © C 1 65 knots v A W ccurs, taked | AUTION vith nosewheel | steering eng | aged. litions per | mit. AS RE | EQUIRED |
| 6. THROTTL If selected, AB lightoff | lf n ES should occ | Do note exceed osewheel shimmy oc ur within approximate | C C 1 65 knots v C Curs, taked ely 5 secon | AUTION vith nosewheel | steering eng: ported if conc | aged. litions per | mit. AS RE | EQUIRED |
| 6. THROTTL If selected, AB lightoff 7. AFT STICH | If n ES should occ | Do note exceed osewheel shimmy oc ur within approximate | C C 65 knots v C V C Curs, taked ely 5 secon | AUTION vith nosewheel | steering eng | aged. ditions per | mit. AS RE AT 10 KN TAKEO | EQUIRED OTS BELC FF SPEED |
| THROTTL If selected, AB lightoff AFT STICH If aft stick is applied ea extend takeof roll. If af result when rotation or | If r ES should occ arlier, rotatic t stick is de ccurs just p | Do note exceed osewheel shimmy oc ur within approximate n will not be immedia ayed or if aft movem- ior to reaching takeo | Cours, taked ely 5 secon ate. Increas ent exceec | AUTION vith nosewheel VARNING off should be ab ds. ds. | steering eng | aged. ditions per | mit. AS RE AT 10 KN TAKEO on will reduce lso result. The | EQUIRED OTS BELC FF SPEED acceleration and shortest takeoff |
| 6. THROTTL If selected, AB lightoff 7. AFT STICI If aft stick is applied ea extend takeof roll. If af result when rotation of | If r ES should occo arlier, rotatic t stick is de ccurs just p • Take • Du | Do note exceed osewheel shimmy oc ur within approximate n will not be immedia ayed or if aft movem ior to reaching takeo off speed and full aft s ring takeoff with hear betwee | Curs, taked ely 5 secon ate. Increas ent exceed off speed. | AUTION vith nosewheel ARNING off should be ab ds. ds. ds. eed drag due to is 1 second, a le IOTE d be reached be L store, a notic ut extension an | steering engr ported if conc horizontal ta onger takeoff efore aborting eable hesitat d takeoff. | aged. ditions per il deflection f roll will al g for nonro | mit. AS RE AT 10 KN TAKEO on will reduce lso result. The otation. iccur | EQUIRED OTS BELC PFF SPEED acceleration and shortest takeoff |
| 6. THROTTL If selected, AB lightoff 7. AFT STICH If aft stick is applied ea extend takeof roll. If af result when rotation of | If n ES should occ arlier, rotatic t stick is de ccurs just p • Take • Du | Do note exceed osewheel shimmy oc ur within approximate ayed or if aft movem- ior to reaching takeo off speed and full aft s ring takeoff with hear betwee TAKEOFF | Curs, taked ely 5 secon ate. Increas ient exceed off speed. | AUTION vith nosewheel ARNING off should be ab ds. ds. ds. ed drag due to s 1 second, a la JOTE d be reached be L store, a notic ut extension an RMANCE | steering eng | aged. ditions per | mit. AS RE AT 10 KN TAKEO on will reduce lso result. The lso result. The otation. | EQUIRED OTS BELC FF SPEED acceleration and shortest takeoff |
| 6. THROTTL If selected, AB lightoff 7. AFT STICH If aft stick is applied ea extend takeof roll. If af result when rotation of Takeoff weight | If n ES should occ arlier, rotatic t stick is de ccurs just p • Take • Du | Do note exceed osewheel shimmy oc ur within approximate ayed or if aft movem- ior to reaching takeo off speed and full aft s ring takeoff with hear betwee <u>TAKEOFF</u> <u>Approximate co</u> | Curs, taked ely 5 secon ate. Increas ent exceed off speed. | AUTION vith nosewheel ARNING off should be ab ds. ds. ds. ds. i second, a la i second, a la i be reached be L store, a notic ut extension an AMANCE on | steering engr ported if conc horizontal ta onger takeoff eable hesitat d takeoff. | aged. | mit. AS RE AT 10 KN TAKEO on will reduce lso result. The otation. ccur | EQUIRED OTS BELC OFF SPEED acceleration and shortest takeoff |
| 6. THROTTL If selected, AB lightoff 7. AFT STICH If aft stick is applied ea extend takeof roll. If af result when rotation of Takeoff weight 15,000 | If n ES should occ arlier, rotatic t stick is de ccurs just p • Takee • Du None | Do note exceed osewheel shimmy oc ur within approximate ayed or if aft movem- ior to reaching takeo off speed and full aft s ring takeoff with hear betwee TAKEOFF Approximate co | Curs, taked ely 5 secon ate. Increas ent exceed off speed. | AUTION vith nosewheel ARNING off should be ab ds. ds. ds. eed drag due to is 1 second, a le JOTE d be reached be L store, a notic ut extension an RMANCE on | borted if conc borted if conc horizontal ta onger takeoff efore aborting eable hesitat d takeoff. % MAC 18–17 | aged. | mit. AS RE AT 10 KN TAKEO on will reduce lso result. The lso result. The otation. ccur Speed, KIAS 43–145 | EQUIRED OTS BELC FF SPEED acceleration and shortest takeoff |
| 6. THROTTL If selected, AB lightoff 7. AFT STICH If aft stick is applied ex- extend takeof roll. If af result when rotation or Takeoff weight 15,000 15,500–16,000 | If r ES should occo arlier, rotatic t stick is de ccurs just p • Take • Du • None Gun arr | Do note exceed osewheel shimmy oc ur within approximate ayed or if aft movem ior to reaching takeo off speed and full aft s ring takeoff with hear betwee TAKEOFF Approximate co mo, missiles | Curs, taked ely 5 secon ate. Increas ent exceed off speed. | AUTION vith nosewheel ARNING off should be ab ds. ds. ds. eed drag due to is 1 second, a le JOTE d be reached be L store, a notic ut extension an RMANCE on | steering eng ported if conc horizontal ta onger takeoff eable hesitat d takeoff. % MAC 18–17 14–13 | aged. ditions per il deflection f roll will al g for nonro ion may o | mit. AS RE AT 10 KN TAKEO on will reduce lso result. The otation. iccur Speed, KIAS 43–145 53–155 | EQUIRED OTS BELC PFF SPEED acceleration and shortest takeoff |
| 6. THROTTL If selected, AB lightoff 7. AFT STICH If aft stick is applied extend takeof roll. If aff result when rotation or Takeoff weight 15,000 15,500–16,000 17,000–18,000 | If n ES should occ arlier, rotatic t stick is de ccurs just p • Take • Du None Gun am Central | Do note exceed osewheel shimmy oc ur within approximate ayed or if aft movem- ior to reaching takeo off speed and full aft s rring takeoff with hear betwee <u>TAKEOFF</u> Approximate co mo, missiles fuel tank, gun amm | Curs, taked ely 5 secon ate. Increas ent exceed off speed. | AUTION vith nosewheel ARNING off should be ab ds. ds. ds. eed drag due to is 1 second, a la NOTE d be reached be L store, a notic ut extension and RMANCE on | borted if conc borted | aged. | mit. AS RE AT 10 KN TAKEO on will reduce lso result. The lotation. ccur Speed, KIAS 43–145 53–155 64–168 | EQUIRED OTS BELC PFF SPEED acceleration and shortest takeoff |
| 6. THROTTL If selected, AB lightoff 7. AFT STICH If aft stick is applied ea extend takeof roll. If af result when rotation of Takeoff weight 15,000 15,500–16,000 17,000–18,000 19,000 | If n ES should occ arlier, rotatic t stick is de ccurs just p • Take • Du • None Gun am Central 3×Fuel | Do note exceed osewheel shimmy oc ur within approximate ayed or if aft movem- ior to reaching takeo off speed and full aft s ring takeoff with hear betwee <u>TAKEOFF</u> <u>Approximate co</u> mo, missiles fuel tank, gun amm tanks 150, gun amm | Curs, taked ely 5 secon ate. Increas ent exceed off speed. | AUTION vith nosewheel ARNING off should be ab ds. ds. ds. ds. ds. JOTE d be reached be L store, a notic ut extension and RMANCE on | steering eng ported if conc horizontal ta onger takeoff eable hesitat d takeoff. % MAC 18–17 14–13 12–11 15–14 | aged. | mit. AS RE AT 10 KN TAKEO on will reduce lso result. The otation. .ccur Speed, KIAS 43–145 53–155 64–168 66–168 | EQUIRED OTS BELC FF SPEED acceleration and shortest takeoff |
| 6. THROTTL If selected, AB lightoff 7. AFT STICH If aft stick is applied eartend takeof roll. If aff result when rotation or Takcoff weight 15,000 15,500–16,000 17,000–18,000 19,000 19,000–21,000 | If r ES should occ arlier, rotatic t stick is de ccurs just p • Take • Du • Take • Du None Gun arr Central 3×Fuel Bombs, 1 | Do note exceed osewheel shimmy oc ur within approximate n will not be immedia ayed or if aft movem ior to reaching takeo off speed and full aft s rring takeoff with hear betwee TAKEOFF Approximate co mo, missiles fuel tank, gun amm tanks 150, gun amm ockets, center fuel tan | Curs, taked ely 5 secon ate. Increas ent exceed off speed. | AUTION vith nosewheel ARNING off should be at ds. ds. ds. ds. ed drag due to s 1 second, a le JOTE d be reached be L store, a notic ut extension an RMANCE on es es es mo, missiles | steering engr ported if conc horizontal ta onger takeoff eable hesitat d takeoff. % MAC 18–17 14–13 12–11 15–14 15–14 | aged. ditions per iii deflection f roll will al g for nonro ion may o Liftoff S 14 16 16 16 16 16 | mit. AS RE AT 10 KN TAKEO on will reduce lso result. The otation. ccur Speed, KIAS 43–145 53–155 64–168 66–168 66–168 68–175 | EQUIRED OTS BELC FF SPEED acceleration and shortest takeoff |
| 6. THROTTL If selected, AB lightoff 7. 7. AFT STICH If aft stick is applied earned takeof roll. If aff result when rotation or earned takeof roll. If aff result when rotation or earned takeoff weight 15,000 15,500–16,000 17,000–18,000 19,000 19,000–21,000 22,000 | If n ES should occ arlier, rotatic t stick is de ccurs just p • Take • Du • Take • Du • Take • Du | Do note exceed osewheel shimmy oc ur within approximate ayed or if aft movem- ior to reaching takeo off speed and full aft s ring takeoff with hear betwee <u>TAKEOFF</u> Approximate co mo, missiles fuel tank, gun amn tanks 150, gun amn ockets, center fuel tan tanks 275, gun amn | Curs, taked ely 5 secon ate. Increas ent exceed off speed. | AUTION vith nosewheel ARNING off should be ab ds. ds. ds. ed drag due to is 1 second, a le NOTE d be reached be L store, a notic ut extension and RMANCE on es es mo, missiles es | steering engr ported if conc horizontal ta onger takeoff eable hesitat d takeoff. 9% MAC 18–17 14–13 12–11 15–14 15–14 15–13 | aged. | mit. AS RE AT 10 KN TAKEO on will reduce lso result. The otation. ccur Speed, KIAS 43–145 53–155 64–168 66–168 68–175 78–180 | EQUIRED OTS BELC PFF SPEED acceleration and shortest takeoff |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

AFTER TAKEOFF CHECK

| | 1. | GEAR | UP | | |
|-------|-----|---|-------------|--|--|
| | | NOTE A high-pitched whine may occur as the nose gear starts up. | | | |
| | 2. | LDG & TAXI LIGHT SWITCH | OFF | | |
| - | 3. | PITCH TRIM | AS REQUIRED | | |
| - | 4. | FLAPS THUMB SWITCH | AS REQUIRED | | |
| - | 5. | AUX INTAKE DOORS INDICATOR Approximately 255±10 KIAS or 0.4 mach. | CHECK CLOSE | | |
| ••••• | END | | | | |

CLIMB CHECK

| NOTE It is recommended to climb at speed not less than 300 KIAS | | | | |
|---|------------------------------|-------------|--|--|
| | 1. EXTERNAL FUEL/AUTOBALANCE | AS REQUIRED | | |
| | 2. OXYGEN | NORMAL | | |
| | 3. COCKPIT PRESSURIZATION | CHECK | | |
| ••••• | END | | | |

FUEL BALANCING CHECKS



| | STED | |
|--|-------------|--|
| | JILF | |

FULL PROCEDURE STEP

CONDITIONAL STEP

NON-FUNCTIONAL STEP

.....

CRUISE CHECK

| Perform level-off and operational checks, and check altimeter. |
|---|
| © CAUTION If the altitude indications of the primary and standby modes vary more than 200 feet below 10,000 feet or 600 feet above 10,000 feet, fly the standby mode only for the remainder of the flight. |
| NOTE If the altimeter reverts to standby operation in flight, try to return to the primary mode by placing the function switch momentarily to ELECT. If the altimeter will not reset or reverts to standby mode after a few seconds, continue in the standby mode. |
| END |

DESCENT CHECK

| 1. ARMAMENT SAFETY CHECK | COMPLETE | | | | |
|--|---------------|--|--|--|--|
| 2. CANOPY DEFOG, ENGINE ANTI-ICE, and PITOT HEAT SWITCHES | AS REQUIRED | | | | |
| Canopy and windshield defogging should be initiated before descent from altitude in sufficient time to allow heating of transparent surfaces. Failure to do so will allow fogging of these surfaces at lower altitude. Engine ant-ice and pitot heat should be applied for descent into known or suspected icing conditions. | | | | | |
| 3. OXYGEN | CHECK | | | | |
| 4. ALTIMETER | CHECK and SET | | | | |
| WARNING Recheck altimeter in primary and standby modes in level flight prior to commencing descent. In normal conditions prior to penetration (300 KIAS, 20,000 feet), the maximum allowable error is 300 feet. If differences are exceeded, use standby mode for descent. If the altimeter internal vibrator is inoperative due to instrument failure or dc power failure, the 100-foot pointer may stick or hang up momentarily when passing through 0 (12-o'clock position). If the vibrator has failed, the hangup may be cleared by tapping the altimeter case. | | | | | |
| END | | | | | |

BEFORE APPROACH CHECK

| 1. | ALTIMETER | CHECK and SET |
|------|---|---------------------------------------|
| 2. | CROSSFEED | DISCONTINUE |
| 3. | HYDRAULIC SYSTEMS - Pressure | CHECK 2800–3200 psi |
| 4. | FLAP LEVER | THUMB SW |
| 5. | FLAP THUMB SWITCH | AUTO |
| 6. | FLIGHT PROFILE - Speed - Altitude | CHECK <300 KIAS <3000 ft |
| 7. | AUX INTAKE DOOR INDICATOR | CHECK OPEN |
| •••• | FND | |

END

| 2 | 1 | | BMISSION | | REQUESTED |
|-----|-----------------------------|---|-------------------------------------|---|--|
|) _ | 2. | PATTERN AL | TITUDE PARAN | NETERS | CHECK 300 KIAS |
| - | | - Altitude | | | 1500 ft |
| - | 3. | FLAP THUM | B SWITCH | | Αυτο |
| _ | 4. | - Speed - Altitude | LEG PARAMET | ERS | CHECK 260 KIAS 1500 ft |
| | 5. | GEAR | | | DOWN |
| - | 6. | LDG & TAXI I | LIGHT SWITCH | | ON |
| 5 | but a | extended to a minimum of 4 minutes behind extremely large aircraft. With an effective crosswind of more than 5 knots, the interval may be reduced, but attempt to stay above and upwind of the preceding aircrafts' flight path. Wake turbulence is most dangerous during the approach and flare prior to touchdown with calm or light crosswinds. NORMAL APPROACH Use AOA as the primary attitude/airspeed reference throughout the final approach. If AOA is inoperative, maintain 145 KIAS plus weight correction. To offer easier thrust balancing and facilitate rapid power-on in case of a go-around decision. leave speed brakes out at | | | |
| | Cour touc HE Fly a | CROSSWIND APPROACH Counteract drift by crabbing into the wind, maintaining flight path alignment with the runway. The crab should be held through touchdown. The wings must be level at touchdown. HEAVYWEIGHT APPROACH Fly a slightly wider than normal traffic pattern. Control the sink rate to touchdown, using power as necessary. Full stall landings are not | | | |
| | reco | mmended at any gros | s weight. | NOTE | |
| ł | | | Approach spe | eed with weight correction is estimated as follows | : |
| ļ | | Base speed | Ammo weight | Fuel weight | Wind |
| ł | | 145 KIAS | +5 kts if carrying full gun ammo | +1 kt for each 200 lb of fuel above 1000 lb, up to 14,000 lb gross weight. | + ¹ / ₂ the wind gust increment |
| - | 1. | FINAL APPR - Speed brakes - Speed - Descent rate - Flaps indicator - AoA indexer GO-AROUNI | OACH PARAME | ETERS | CHECK 40% 145 + wt. corr. KIAS 1000 ft/min Full On speed AS EARLY AS |
| | <u>~</u> . | | | | POSSIBI F |
| | | | | | |

| NORMAL STEP FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|---------------------------------|------------------|---------------------|
|---------------------------------|------------------|---------------------|

| GO-AROUND | | |
|-----------------|--|--|
| 1. THROTTLES | MIL/MAX If necessary. | |
| 2. SPEED BRAKES | IN | |
| 3. GEAR | UP When positive rate of climb confirmed | |
| 4. FLAPS | AS REQUIRED | |
| | | |

LANDING CHECK

NORMAL LANDING

-anding Regimes

Accomplish a normal flare to touchdown. If runway length and conditions permit, aerodynamic braking may be used to conserve brakes and tires. Aerodynamic braking is achieved by easing the stick back gradually while in the flare to hold the nosewheel off the ground until desired pitch attitude is attained (approximately 12 degrees nose-up).

⊘ CAUTION

Do not exceed 12 degrees pitch. The tailpipe will contact the runway at 15 degrees pitch.

CROSSWIND LANDING

The wings must be level at touchdown. After touchdown, maintain directional control of the aircraft with rudder. Use care when lowering the nose after touchdown, as premature lowering of the nose can result in compression of the downwind strut, causing a turn toward the compressed strut. Use of aileron into the wind throughout the landing phase will minimize the strut compression tendency.

MINIMUM RUN LANDING

To accomplish a minimum run landing (shortest obtainable stopping distance) execute a normal approach and touchdown, then immediately lower nosewheel, deploy the drag chute, and apply maximum wheel braking without skidding tires.

WET or SLIPPERY RUNWAY

Normal landing procedures should be used. Landing ground roll distances are significantly increased on wet and slippery runway. After nosewheel is lowered, apply brakes carefully. Avoid locking the brakes. Hydroplaning and/or tire skidding on wet or icy runway will increase stopping distance and can easily result in loss of directional control.

\otimes CAUTION

Painted areas of runways, taxiways, and ramps are significantly more slippery than unpainted areas. When conditions of snow and ice exist, approach ends of runways are usually more slippery than other areas due to the meling and refreezing of ice and snow at these locations.

HYDROPLANING FACTORS

Hydroplaning is a phenomenon with many factors. If hydroplaning is expected during landing, use drag chute or aerodynamic braking to slow down aircraft as much as possible before applying wheel brakes. Hydroplaning may occur above 85 KIAS.

COLD WEATHER OPERATIONS

Use minimum run landing techniques. When landing on runways that have patches of dry surface, avoid locking the wheels. If the aircraft starts to skid, release brakes until recovery from skid is accomplished.

\otimes CAUTION

After tuchdown and deployment of drag chute, prepare for tendency of aircraft to veer toward either side of runway. In cold environments, main landing gear struts may not compress equal amounts, causing aircraft to track to side of lower strut. Nosewheel steering will be ineffective during high-speed portion of landing roll on icy runway.

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

LANDING CHECK

| Landing | 1. | FLARE and TOUCHDOWN PARAMETERS - Speed - AoA indicator - AoA indexer - Pitch | CHECK 145 + wt. corr. KIAS 3 o'clock On speed <12° | | | |
|--|---|--|--|--|--|--|
| | 2. | NOSEWHEEL, AFTER TOUCHDOWN | LOWER TO GROUND Takes approx. 3 seconds | | | |
| | 3. | DRAG CHUTE | OUT | | | |
| | 4. | FLAP THUMB SWITCH | UP | | | |
| | 5. | WHEEL BRAKES | STEADY INCREASE | | | |
| | Take advantage of all available runway to stop the aircraft. To prevent skidding, extreme care must be exercised when applying wheel brakes immediately after touchdown at high landing speeds and/or heavy gross weights, or whenever there is considerable lift on the wings. Heavy brake pressures will lock the wheels more easily under these conditions. A locked wheel may result in a blown tire. | | | | | |
| | © CAUTION To prevent wheel lockup and skidding, do not pump brakes. | | | | | |
| NOTE Do not stop on runway with drag chute deployed, as taxiing may be impossible. | | | | | | |
| | | END | | | | |

AFTER LANDING - CLEAR OF RUNWAY CHECK

| 1. | DRAG CHUTE | JETTISON | | | | |
|--|---|-------------------------|--|--|--|--|
| | O CAUTION DO not allow the chute to collapse as the risers will be burned while resting or | n the hot tail section. | | | | |
| 2. | CABIN PRESSURE ALTIMETER | CHECK | | | | |
| 3. | PRESSURIZATION SWITCH If cabin pressure reading is below field elevation. | RAM DUMP | | | | |
| 4. | FLAP THUMB SWITCH | UP | | | | |
| 5. | SPEED BRAKES | OUT | | | | |
| 6. | RADAR MODE SELECTOR | OFF | | | | |
| WARNING Ensure radar is OFF or in STBY to avoid radiation danger to personnel. | | | | | | |
| 7. | PITOT HEAT and ENGINE ANTI-ICE SWITCHES | OFF | | | | |
| 8. | IFF/SIF | OFF | | | | |
| 9. | ROTATING BEACON | AS REQUIRED | | | | |
| END | | | | | | |

ENGINE SHUTDOWN CHECK

| spit | 1. | CANOPY | OPEN | | |
|-------------|-------|---|---------------------------------|--|--|
| Coct | | | | | |
| | | The canopy seal will remain inflated if engines are shut down with canopy loo open canopy with seals inflated may result in damage to canopy drive | cked. Attempts to mechanism. | | |
| | | | 1 | | |
| | 2. | WHEEL BRAKES | HOLD Until chocks in place. | | |
| | 3. | WHEEL CHOCKS | REQUESTED | | |
| ЧО - | 1. | CHAFF and FLARE SWITCHES | OFF | | |
| | 2. | PITCH and YAW DAMPER SWITCHES | OFF | | |
| | 3. | SPEED BRAKES | OUT | | |
| ۲L | 1. | LANDING GEAR ALTERNATE RELEASE HANDLE | FULLY STOWED | | |
| | 2. | ARMAMENT and JETTISON SWITCHES | OFF and STOWED | | |
| ent inel | 1. | STANDBY ATTITUDE INDICATOR | CAGED and LOCKED | | |
| Pa. | 2. | OPTICAL SIGHT MODE SELECTOR | OFF | | |
| | 3. | RADAR WARNING RECEIVER | OFF | | |
| PP | 1. | UHF RADIO and TACAN | OFF | | |
| nel . | 1. | CABIN PRESSURIZATION SWITCH | NORMAL | | |
| al Pa | 2. | TEMPERATURE CONTROLS | AS REQUIRED | | |
| Vertic | 3. | PITOT HEAT and ENGINE ANTI-ICE SWITCHES | OFF | | |
| Right | 4. | EXTERNAL FUEL TRANSFER SWITCHES | OFF | | |
| | 5. | CROSSFEED SWITCH | OFF | | |
| | 6. | AUTO BALANCE SWITCH | CENTRED | | |
| | 7. | OXYGEN SUPPLY LEVER | OFF | | |
| | 8. | DILUTER LEVER | NORMAL | | |
| | 9. | EMERGENCY LEVER | NORMAL | | |
| Ë, | 1. | THROTTLES | OFF | | |
| | Allov | v engine RPM to stabilise for 5 to 10 seconds. | | | |
| RVP . | 1. | GENERATOR SWITCHES | OFF | | |
| | 2. | FUEL BOOST PUMP SWITCHES | OFF | | |
| RCP | 1. | INTERIOR and EXTERIOR LIGHTS Including BEACON, as well as LDG & TAXI LIGHTS and ARMT LIGHT CONTROL on Left Vertical Panel. | OFF | | |
| RVP | 1. | BATTERY SWITCH | OFF | | |
| | | END | | | |
| | | | | | |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP | |
|-------------|---------------------|------------------|---------------------|--|
|-------------|---------------------|------------------|---------------------|--|

IN-FLIGHT FCR BEFORE MISSILE/GUN ATTACK CHECK

| _ | 1. | RADAR MODE SELECTOR | OPER | | | |
|---|--|-------------------------------|-----------------|--|--|--|
| | © CAUTION If FAIL light comes on in flight, turn radar mode selector OFF. If light goes out, return to STBY or OPER. If FAIL light remains on turn radar off for duration of flight. | | | | | |
| _ | 2. | DOGFIGHT/RESUME SEARCH BUTTON | CENTER (RESUME) | | | |
| _ | 3. | RANGE SELECTOR | AS REQUIRED | | | |
| | 4. | VIDEO KNOB | OPTIMUM BRIGHT. | | | |
| | END | | | | | |

GUNS, AIR-TO-AIR CHECK

:

| 1. | SIGHT MODE SELECTOR | A/A1 or A/A2 | | | | |
|---------------------------|--|--|--|--|--|--|
| 2. | RADAR MODE SELECTOR | OPER | | | | |
| 3. | ACQ BUTTON | PRESS | | | | |
| 4. | DOGFIGHT/RESUME SEARCH BUTTON | AFT (DG) If necessary | | | | |
| | NOTE Selecting the dogfight gun mode will case the sight to function in the A/A1 mode. | | | | | |
| 5. GUNS MSL & CAMR SWITCH | | GUNS MSL & CAMR | | | | |
| 1. | TRIGGER | SQUEEZE (Second detent) | | | | |
| F | NOTE Firing burst should be limited to no more than 3 seconds (approximately 75 rounds) with a 1-minute cooling period between bursts. | | | | | |
| END | | | | | | |
| | 1. 2. 3. 4. 5. 1. | SIGHT MODE SELECTOR RADAR MODE SELECTOR ACQ BUTTON DOGFIGHT/RESUME SEARCH BUTTON NOTE Selecting the dogfight gun mode will case the sight to function in the A GUNS MSL & CAMR SWITCH TRIGGER Firing burst should be limited to no more than 3 seconds (approximately 75 rounds) with a 1-min END | | | | |

GUNS, AIR-TO-GROUND CHECK

| ore ing | 1. SIGHT MODE SELECTOR | MAN | | | | | | |
|------------|--|----------------------------|--|--|--|--|--|--|
| Bef | 2. SIGHT DEPRESSION | SET | | | | | | |
| | 3. GUNS MSL & CAMR SWITCH | GUNS MSL & CAMR | | | | | | |
| Firing | 1. TRIGGER | SQUEEZE (Second detent) | | | | | | |
| | WARNING To avoid possible engine and aircraft FOD from HEI detonation, slant ranges sufficient to permit flyover of fragmentation could at abor 300 feet AGL are mandatory. | | | | | | | |
| | NOTE Firing burst should be limited to no more than 3 seconds (approximately 75 rounds) with a 1-minute cooling period between bursts. | | | | | | | |
| | END | | | | | | | |
| | | | | | | | | |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

MISSILE (AIM-9) CHECK

| ng | 1. | SIGHT MODE SELECTOR | MSL | | | | |
|--|--|--|--------------------------------------|--|--|--|--|
| Jang | 2. | RADAR MODE SELECTOR | OPER | | | | |
| and | 3. | RANGE SELECTOR | AS REQUIRED | | | | |
| t Search | 4. | TDC BUTTON | POSITION SYMBOL OVER TARGET | | | | |
| arge | 5. | ACQ BUTTON | PRESS | | | | |
| | 6. LK ON LIGHT | | ON | | | | |
| lch | 1. | ARMAMENT POSITION SWITCH(ES) | AS REQUIRED | | | | |
| e Laur | For s in th | sequence firing of the left wing-tip weapon followed by the right weapon, both wingtip armamer e up position. | t position selector switches must be | | | | |
| Befor | 2. | GUNS MSL & CAMR SWITCH | GUNS MSL & CAMR | | | | |
| | 3. | EXTERNAL STORES SELECTOR | SAFE (DETENT) | | | | |
| | 4. | DOGFIGHT/RESUME SEARCH BUTTON | FORWARD (DM) If necessary | | | | |
| | 5. | SELECT JETTISON SWITCH | OFF | | | | |
| | 6. | MISSILE UNCAGE SWITCH | PRESS and HOLD | | | | |
| | 7. | MISSILE AUDIO TONE | CHECKED | | | | |
| | Adjust volume control until background tone of selected missile is barely audible. If time and circumstances permit, boresight each missile and check that tone intensity and volume vary with changes in infrared radiation in the seeker gyro field of view. | | | | | | |
| | NOTE To obtain the right missile audio tone, place left wingtip armament position selector switch OFF and right wingtip armament switch at position. | | | | | | |
| -b | 1. | IN-RANGE LIGHT | ON | | | | |
| Laun | NOTE Track target long enough to check missile tone for contrast between background and target radiation to ensure that target is will field of view of the seeker gyro. | | | | | | |
| | 2. | EXCESS-G LIGHT | OUT | | | | |
| | 3. | MISSILE UNCAGE SWITCH | PRESS and HOLD | | | | |
| | 4. | BOMB-ROCKET BUTTON | PRESS | | | | |
| | Kee | b bomb-rocket button pressed until missile has left launcher rail. | | | | | |
| NOTE If the bomb-rocket button is not held pressed until the missile has left the launcher rail the possibility exists of activating the and control unit without igniting the rocket motor. If this occurs, that missile cannot be subsequently fired. If this occurs on the missile, when the bomb-rocket button is released, the firing circuit automatically transfers to the right wingtip launcher, provid wingtip armament position selector switch is up. If it is determined that an installed missile should not be fired due to a malfur no missile tone), use the wingtip armament position selector switches to transfer the firing circuits to the good missil END | | | | | | | |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

BOMBS DELIVERY CHECK

| - Jelease | 1. DOGFIGHT/RESUME SEARCH BUTTON | | | | | | | CENTER (RESUME) | | |
|-----------|--|-----------------------------|---------|-----------|-----------|------------------|-----------------------|-------------------------|--------|--|
| | 2. SIGHT MODE SELECTOR | | | | | | | MAN | | |
| fore | 3. SIGHT DEPRESSION | | | | | | SET | | | |
| e - B | 4. BOMBS ARM SWITCH | | | | | AS REQUIRED | | | | |
| - | | | | | Bombs arn | n switch positio | on | | | |
| | Bo | mb | Fuze | | Safe | Nose | Nose & T | ail Tail | | |
| | м | - 00 MI- 02 MI- 04 M117 | M904 | Ν | Dud | Armed | Armed | Dud | | |
| | MI | x-82, MIK-85, MIK-84, MIT17 | M905 | Т | Dud | Dud | Armed | Armed | | |
| | М | z-89 Snakeve | M904 | Ν | LD Dud | Armed | Armed | HD Du | d | |
| | | x-02 Shakeye | FMU-54 | Т | LD Dud | LD Armed | Armed | HD Du | d | |
| | GF | SU-12 | M904 | Ν | UG Dud | Armed | Armed | Dud | | |
| | | | FMU-81 | Т | UG Dud | UG Armed | Armed | Dud | _ | |
| _ | CE | BU-54 | M907 | Ν | Dud | Armed | Armed | Dud | | |
| - | 5. | ARMAMENT POSITI | ON SWIT | СН | (ES) | | | AS REQUIRED | | |
| - | 6. | EXTERNAL STORES | SELECT | OR | | | | | BOMB | |
| | 7. | SELECT JETTISON | SWITCH | | | | | | OFF | |
| ISe | 1. | BOMB-ROCKET BU | TTON | | | | | | PRESS | |
| Relea | WARNING (Mk-82 Snakeye) To provide a margin of safety in the event of retarding fin failure resulting in a low-drag bomb trajectory, a 4.0 G pullup or a 4.0 G banked turn escape maneuver should be executed immediately after bomb release. | | | | | | | | | |
| | © CAUTION Speed brakes should be IN for release of stores from the CL position. | | | | | | | | | |
| | | | | | END | | | | | |
| | •••• | | | • • • • • | | | • • • • • • • • • • • | • • • • • • • • • • • • | •••••• | |
| | | | | | | | | | | |

ROCKET LAUNCHERS (LAU-3, -60) CHECK

| bu | 1. | DOGFIGHT/RESUME SEARCH BUTTON | CENTER (RESUME) | | | | | | | | |
|--------|---|---|-------------------------------|--|--|--|--|--|--|--|--|
| Te Fir | 2. | SIGHT MODE SELECTOR | MAN | | | | | | | | |
| Befo | 3. | SIGHT DEPRESSION | SET | | | | | | | | |
| | 4. | ARMAMENT POSITION SWITCH(ES) | AS REQUIRED | | | | | | | | |
| | 5. | EXTERNAL STORES SELECTOR | RKT/DISP | | | | | | | | |
| | 6. | SELECT JETTISON SWITCH | OFF | | | | | | | | |
| | | WARNING Until visual inspection confirms otherwise, all rocket launchers should be considered as st | ill containing armed rockets. | | | | | | | | |
| ring | 1. | BOMB-ROCKET BUTTON | PRESS | | | | | | | | |
| ГШ (| When rockets are ripple fired, the bomb-rocket button must be pressed for ½ second to ensure fire-out of all rockets. | | | | | | | | | | |
| | | END | | | | | | | | | |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

ARMAMENT SAFETY CHECK

| 1. | GUNS MSL & CAMR SWITCH | OFF and GUARDED | | | | | | | | | |
|---------|----------------------------|-----------------|--|--|--|--|--|--|--|--|--|
| 2. | BOMBS ARM SWITCH | SAFE | | | | | | | | | |
| 3. | ARMAMENT POSITION SWITCHES | OFF | | | | | | | | | |
| 4. | EXTERNAL STORES SELECTOR | SAFE | | | | | | | | | |
| 5. | SIGHT MODE SELECTOR | OFF | | | | | | | | | |
| 6. | MISSILE VOLUME KNOB | FULLY CCW | | | | | | | | | |
| END | | | | | | | | | | | |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
| | | | |

MK-82 and GBU-12 500 LBS GP and LGB BOMB TABLES

| DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) |
|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|
| 0 | 500 | 360 | 159 | 20 | 3000 | 360 | 214 | 30 | 6500 | 400 | 233 |
| | | | | | | | | | | | |
| | 1000 | 560 | 103 | | | 560 | 119 | | - | 560 | 153 |
| | 1000 | 360 | 219 | | 3500 | 360 | 234 | | 7000 | 400 | 244 |
| | | 1 560 | 143 | | | 1 560 | 132 | | | 1 560 | 161 |
| | 1500 | 480 | 231 | | 4000 | 400 | 223 | | 7500 | 400 | 253 |
| | | | | | | | | | | 1 | |
| | | 560 | 173 | | | 560 | 125 | | | 560 | 168 |
| | 2000 | 560 | 199 | | 4500 | 400 | 239 | | 8000 | 440 | 236 |
| | | | | | | | | | | | |
| 15 | 1000 | 260 | 100 | | 5000 | 560 | 157 | | 9500 | 560 | 1/6 |
| 15 | 1000 | 300 | 120 | | 5000 | 440 | 227 | | 6500 | 440 | 244 |
| | | ı 560 | 67 | | | ا 560 | 168 | | | 560 | 183 |
| | 1500 | 360 | 161 | | 5500 | 440 | 241 | | 9000 | 480 | 228 |
| | | | | | | | | | | | |
| | | 560 | 87 | | | 560 | 179 | | | 560 | 190 |
| | 2000 | 360 | 192 | | 6000 | 480 | 229 | | 9500 | 480 | 235 |
| | | 560 | 106 | | | 560 | 100 | | | 560 | 107 |
| | 2500 | 360 | 219 | | 6500 | 520 | 218 | | 10000 | 480 | 243 |
| | 2000 | | | | 0000 | | | | 10000 | | |
| | | 560 | 124 | | | 560 | 200 | | | 560 | 204 |
| | 3000 | 400 | 244 | 30 | 1500 | 360 | 107 | 45 | 2500 | 360 | 102 |
| | | | | | | | | | | | |
| | 0500 | 560 | 140 | | 0000 | 480 | 69 | | 0000 | 440 | 76 |
| | 3500 | 400 | 235 | | 2000 | 360 | 128 | | 3000 | 360 | 115 |
| | | ا 560 | 155 | | | ا 560 | 66 | | | ا 480 | 76 |
| | 4000 | 440 | 227 | | 2500 | 360 | 148 | | 3500 | 360 | 127 |
| | | 1 | | | | | | | | 1 | |
| | | 560 | 169 | | | 560 | 78 | | | 520 | 74 |
| | 4500 | 480 | 220 | | 3000 | 360 | 166 | | 4000 | 360 | 137 |
| | | 560 | 100 | | | 560 | 00 | | | 560 | 72 |
| | 5000 | 520 | 213 | | 3500 | 360 | 183 | | 4500 | 360 | 148 |
| | | | | | | | | | | | |
| | | 560 | 195 | | | 560 | 99 | | | 560 | 79 |
| | 5500 | 520 | 225 | | 4000 | 360 | 199 | | 5000 | 360 | 158 |
| | | | | | | | | | | | |
| 00 | 1000 | 560 | 207 | | 4500 | 560 | 109 | | EEOO | 560 | 85 |
| 20 | 1000 | 300 | 100 | | 4500 | 300 | 213 | | 5500 | 300 | 107 |
| | | 560 | 56 | | | 560 | 118 | | | 560 | 91 |
| | 1500 | 360 | 139 | | 5000 | 360 | 227 | | 6000 | 360 | 176 |
| | | | | | | | | | | | |
| | | 560 | 73 | | | 560 | 127 | | | 560 | 97 |
| | 2000 | 360 | 167 | | 5500 | 360 | 240 | | 6500 | 360 | 184 |
| | | 560 | 80 | | | 560 | 136 | | | 560 | 103 |
| | 2500 | 360 | 192 | | 6000 | 360 | 252 | | 7000 | 360 | 192 |
| | | | | | | | | | | | |
| | | 560 | 105 | | | 560 | 144 | | | 560 | 108 |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|

MK-82 and GBU-12 500 LBS GP and LGB BOMB TABLES (CONT.)

| DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) |
|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|
| 45 | 7500 | 360 | 199 | 60 | 4000 | 360 | 91 | 60 | 7500 | 360 | 130 |
| | | 1 | 1 | | | | 1 | | | 1 | 1 |
| | | 560 | 113 | | | 440 | 69 | | | 560 | 73 |
| | 8000 | 360 | 207 | | 4500 | 360 | 97 | | 8000 | 360 | 135 |
| | | | | | | | | | | | |
| | | 560 | 119 | | | 440 | 74 | | | 560 | 77 |
| | 8500 | 360 | 214 | | 5000 | 360 | 104 | | 8500 | 360 | 140 |
| | | | | | | | | | | | |
| | | 560 | 124 | | | 480 | 70 | | | 560 | 80 |
| | 9000 | 360 | 220 | | 5500 | 360 | 109 | | 9000 | 360 | 144 |
| | | | | | | | | | | | |
| | | 560 | 129 | | | 520 | 66 | | | 560 | 83 |
| | 9500 | 360 | 227 | | 6000 | 360 | 115 | | 9500 | 360 | 148 |
| | | | | | | | | | | | |
| | | 560 | 134 | | | 560 | 63 | | | 560 | 86 |
| | 10000 | 360 | 233 | | 6500 | 360 | 120 | | 10000 | 360 | 152 |
| | | | | | | | | | | | |
| | | 560 | 139 | | | 560 | 67 | | | 560 | 89 |
| 60 | 3500 | 360 | 84 | | 7000 | 360 | 125 | | | | |
| | | | | | | | | | | | |
| | | 400 | 73 | | | 560 | 70 | | | | |

MK-82 SNAKEYE I and MK-36 BOMB TABLES

| DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) |
|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|
| 0 | 100 | 360 | 90 | 10 | 400 | 360 | 110 | 20 | 1000 | 360 | 162 |
| | | | | | | 1 | | | | | 1 |
| | | 560 | 62 | | | 560 | 61 | | | 560 | 90 |
| 0 | 125 | 360 | 101 | 10 | 500 | 360 | 133 | 20 | 1100 | 360 | 178 |
| | | | 1 | | | | 1 | | | | 1 |
| | | 560 | 70 | | | 560 | 76 | | | 560 | 102 |
| 0 | 150 | 360 | 111 | 10 | 600 | 360 | 155 | 20 | 1200 | 360 | 195 |
| | | | | | | | | | | | 1 |
| | | 560 | 78 | | | 560 | 92 | | | 560 | 114 |
| 0 | 200 | 360 | 130 | 10 | 700 | 360 | 178 | 30 | 1200 | 360 | 136 |
| | | | | | | | | | | | I |
| | | 560 | 92 | | | 560 | 109 | | | 400 | 117 |
| 0 | 250 | 360 | 148 | 10 | 800 | 360 | 200 | 30 | 1300 | 360 | 148 |
| | | | | | | | | | | | I |
| | | 560 | 106 | | | 560 | 126 | | | 440 | 112 |
| 0 | 300 | 360 | 165 | 10 | 900 | 360 | 221 | 30 | 1400 | 360 | 160 |
| | | | | | | | | | | | I |
| | | 560 | 120 | | | 560 | 144 | | | 440 | 123 |
| 0 | 400 | 360 | 197 | 10 | 1000 | 360 | 242 | 30 | 1500 | 360 | 172 |
| | | | | | | | | | | | 1 |
| | | 560 | 145 | | | 560 | 161 | | | 480 | 119 |
| 0 | 500 | 360 | 227 | 20 | 700 | 360 | 114 | 30 | 1600 | 360 | 185 |
| | | | | | | | | | | | I |
| | | 560 | 170 | | | 440 | 96 | | | 480 | 129 |
| 0 | 600 | 400 | 230 | 20 | 800 | 360 | 130 | 30 | 1800 | 360 | 210 |
| | | | | | | I | | | | | I |
| | | 560 | 193 | | | 480 | 87 | | | 520 | 135 |
| 0 | 700 | 480 | 235 | 20 | 900 | 360 | 146 | 30 | 2000 | 360 | 234 |
| | | | | | | I | | | | | |
| | | 560 | 215 | | | 520 | 88 | | | 560 | 142 |

THR = Throttle - LCP = Left Console Panel - LVP = Left Vertical Panel - IP = Instrument Panel PP = Pedestal Panel - ST = Stick - RVP = Right Vertical Panel - RCP = Right Console Panel PP = Pedestal Panel - ST = Stick - RVP = Right Vertical Panel - RCP = Right Console Panel PP = Pedestal Panel - ST = Stick - RVP = Right Vertical Panel - RCP = Right Console Panel PP = Pedestal Panel - ST = Stick - RVP = Right Vertical Panel - RCP = Right Vertical

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
| | | | |

MK-83 1000 LBS GP BOMB TABLES

| DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) |
|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|
| 0 | 500 | 360 | 158 | 15 | 2500 | 360 | 217 | 25 | 3000 | 360 | 186 |
| | | | | | | | | | | | |
| | 1000 | 560 | 102 | | 0000 | 560 | 122 | | 0500 | 560 | 100 |
| | 1000 | 360 | 217 | | 3000 | 360 | 241 | | 3500 | 360 | 205 |
| | | 1 560 | 141 | | | 560 | 138 | | | 560 | 112 |
| 5 | 1000 | 360 | 178 | | 3500 | 400 | 232 | | 4000 | 360 | 222 |
| | | | 1 | | | 1 | | | | 1 | 1 |
| | | 560 | 105 | | | 560 | 152 | | | 560 | 123 |
| | 1500 | 360 | 220 | | 4000 | 440 | 224 | | 4500 | 360 | 237 |
| | | | | | | | | | | | |
| | 2000 | 560 | 133 | | 4500 | 560 | 166 | | 5000 | 560 | 133 |
| | 2000 | 440 | 206 | | 4500 | 480 | 217 | | 5000 | 360 | 252 |
| | | ا 560 | 157 | | | 1 560 | 179 | | | 560 | 143 |
| | 2500 | 480 | 211 | | 5000 | 480 | 231 | | 5500 | 400 | 235 |
| | | | | | | I | | | | | |
| | | 560 | 178 | | | 560 | 191 | | | 560 | 153 |
| | 3000 | 520 | 214 | | 5500 | 520 | 222 | | 6000 | 400 | 248 |
| | | | | | | | | | | | |
| 10 | 1000 | 560 | 197 | 00 | 5500 | 560 | 203 | | 6500 | 560 | 162 |
| 10 | 1000 | 360 | 147 | 20 | 5500 | 440 | 237 | | 0000 | 440 | 232 |
| | | ا 560 | 81 | | | 560 | 176 | | | ا 560 | 171 |
| | 1500 | 400 | 167 | | 6000 | 480 | 225 | | 7000 | 440 | 242 |
| | | | | | | 1 | | | | | |
| | | 560 | 106 | | | 560 | 186 | | | 560 | 180 |
| | 2000 | 480 | 220 | | 6500 | 480 | 236 | | 7500 | 440 | 227 |
| | | | 107 | | | | 100 | | | | 100 |
| | 2500 | 400 | 127 221 | | 7000 | 520 | 224 | | 8000 | 440 | 236 |
| | 2000 | 400 | | | 1000 | 1 | | | 0000 | | 200 |
| | | 560 | 146 | | | 560 | 206 | | | 560 | 196 |
| | 3000 | 440 | 219 | | 7500 | 520 | 234 | | 8500 | 520 | 223 |
| | | | | | | | | | | | |
| | 0500 | 560 | 164 | | 0000 | 560 | 215 | | 0000 | 560 | 204 |
| | 3500 | 480 | 216 | | 8000 | 560 | 223 | | 9000 | 520 | 230 |
| | | 1 560 | 183 | | | | | | | ا 560 | 212 |
| | 4000 | 520 | 213 | | 8500 | 560 | 232 | | 9500 | 520 | 238 |
| | | | | | | | | | | 1 | |
| | | 560 | 195 | | | | | | | 560 | 219 |
| | 4500 | 560 | 209 | 25 | 1000 | 360 | 92 | | 10000 | 560 | 226 |
| | | | | | | | | | | | |
| 15 | 1000 | 260 | 104 | | 1500 | 440 | 68 | 20 | 1000 | 260 | 01 |
| 15 | 1000 | 300 | 124 | | 1500 | 300 | 120 | 30 | 1000 | 300 | 01 |
| | | 560 | 65 | | | 560 | 62 | | | | |
| | 1500 | 360 | 159 | | 2000 | 360 | 144 | | 1500 | 360 | 105 |
| | | | | | | | | | | | |
| | | 560 | 86 | | | 560 | 75 | | | 480 | 68 |
| | 2000 | 360 | 190 | | 2500 | 360 | 166 | | 2000 | 360 | 127 |
| | | | | | | | | | | | |
| | | 200 | 105 | | | Uac | 88 | | | 260 | 60 |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

MK-83 1000 LBS GP BOMB TABLES (CONT.)

| DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) |
|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|
| 30 | 2500 | 360 | 146 | 30 | 8500 | 440 | 240 | 40 | 5500 | 360 | 186 |
| | | 1 | 1 | | | 1 | 1 | | | | 1 |
| | | 560 | 76 | | | 560 | 179 | | | 560 | 102 |
| | 3000 | 360 | 164 | | 9000 | 440 | 248 | | 6000 | 360 | 196 |
| | | | I | | | | I | | | | |
| | | 560 | 87 | | | 560 | 186 | | | 560 | 109 |
| | 3500 | 360 | 181 | | 9500 | 480 | 232 | | 6500 | 360 | 205 |
| | | | I | | | | I | | | | |
| | 1000 | 560 | 97 | | | 560 | 193 | | | 560 | 115 |
| | 4000 | 360 | 196 | | 10000 | 480 | 239 | | 7000 | 360 | 214 |
| | | 560 | 107 | | | 560 | | | | 560 | 101 |
| | 4500 | 260 | 211 | 40 | 1500 | 260 | 200 | | 7500 | 260 | 121 |
| | 4000 | 1 | 211 | 40 | 1000 | 500 | 02 | | 7500 | 1 | 220 |
| | | 560 | 116 | | | | | | | 560 | 127 |
| | 5000 | 360 | 224 | | 2000 | 360 | 99 | | 8000 | 360 | 231 |
| | | | | | | | 1 | | | | |
| | | 560 | 125 | | | 440 | 73 | | | 560 | 133 |
| | 5500 | 360 | 237 | | 2500 | 360 | 114 | | 8500 | 360 | 238 |
| | | 1 | I | | | 1 | I | | | | |
| | | 560 | 133 | | | 480 | 74 | | | 560 | 138 |
| | 6000 | 360 | 249 | | 3000 | 360 | 128 | | 9000 | 360 | 246 |
| | | | I | | | | I | | | | |
| | | 560 | 142 | | | 560 | 66 | | | 560 | 144 |
| | 6500 | 360 | 260 | | 3500 | 360 | 141 | | 9500 | 360 | 253 |
| | | | | | | | | | | | |
| | 7000 | 560 | 150 | | 4000 | 560 | 74 | | 10000 | 560 | 149 |
| | 7000 | 400 | 240 | | 4000 | 360 | 154 | | 10000 | 360 | 260 |
| | | 560 | 159 | | | 560 | 01 | | | 560 | 155 |
| | 7500 | 400 | 250 | | 4500 | 360 | 165 | | | 500 | 155 |
| | 7500 | 400 | 250 | | 4000 | 1 | 100 | | | | |
| | | 560 | 165 | | | 560 | 89 | | | | |
| | 8000 | 440 | 232 | | 5000 | 360 | 176 | | | | |
| | | | | | | | | | | | |
| | | 560 | 172 | | | 560 | 95 | | | | |

MK-84 2000 LBS GP BOMB TABLES

| DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) |
|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|
| 0 | 500 | 360 | 158 | 15 | 1000 | 360 | 124 | 15 | 4000 | 440 | 224 |
| | | | | | | 1 | | | | | |
| | | 560 | 102 | | | 560 | 66 | | | 560 | 165 |
| | 1000 | 360 | 217 | | 1500 | 360 | 160 | | 4500 | 440 | 240 |
| | | | | | | | | | | | |
| | | 560 | 141 | | | 560 | 86 | | | 560 | 178 |
| | 1500 | 440 | 216 | | 2000 | 360 | 190 | | 5000 | 480 | 230 |
| | | | | | | 1 | | | | | |
| | | 560 | 171 | | | 560 | 105 | | | 560 | 190 |
| | 2000 | 520 | 210 | | 2500 | 360 | 217 | | 5500 | 520 | 221 |
| | | | | | | | | | | | |
| | | 560 | 196 | | | 560 | 122 | | | 560 | 202 |
| | 2500 | 560 | 218 | | 3000 | 400 | 212 | | 6000 | 520 | 233 |
| | | | | | | | | | | | |
| | | | | | | 560 | 137 | | | 560 | 213 |

| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|-------------|---------------------|------------------|---------------------|
|-------------|---------------------|------------------|---------------------|

MK-84 2000 LBS GP BOMB TABLES (CONT.)

| DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) |
|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|
| 15 | 6500 | 560 | 224 | 30 | 2000 | 360 | 127 | 45 | 2500 | 360 | 125 |
| | | | | | | | | | | | |
| 00 | 1000 | 0.00 | 100 | | 0500 | 560 | 65 | | 0000 | 440 | 75 |
| 20 | 1000 | 360 | 106 | | 2500 | 360 | 146 | | 3000 | 360 | 113 |
| | | 1 560 | 55 | | | 1 560 | 76 | | | ا 480 | 1 74 |
| | 1500 | 360 | 138 | | 3000 | 360 | 164 | | 3500 | 360 | 125 |
| | | | | | | 1 | | | | 1 | |
| | | 560 | 72 | | | 560 | 87 | | | 520 | 73 |
| | 2000 | 360 | 165 | | 3500 | 360 | 181 | | 4000 | 360 | 135 |
| | | | | | | | | | | | |
| | 0500 | 560 | 86 | | 1000 | 560 | 97 | | 4500 | 560 | 71 |
| | 2500 | 360 | 189 | | 4000 | 360 | 196 | | 4500 | 360 | 146 |
| | | 1 560 | 103 | | | 1 560 | 106 | | | 1 560 | 77 |
| | 3000 | 360 | 211 | | 4500 | 360 | 211 | | 5000 | 360 | 155 |
| | | | | | | I | | | | 1 | |
| | | 560 | 117 | | | 560 | 115 | | | 560 | 83 |
| | 3500 | 360 | 232 | | 5000 | 360 | 224 | | 5500 | 360 | 164 |
| | | | | | | | | | | | |
| | 4000 | 560 | 130 | | 5500 | 560 | 124 | | 0000 | 560 | 89 |
| | 4000 | 400 | 220 | | 5500 | 360 | 237 | | 6000 | 360 | 173 |
| | | 560 | 142 | | | 1 560 | 133 | | | 560 | 95 |
| | 4500 | 400 | 236 | | 6000 | 400 | 219 | | 6500 | 360 | 181 |
| | | | | | | | | | | 1 | |
| | | 560 | 153 | | | 560 | 141 | | | 560 | 100 |
| | 5000 | 440 | 224 | | 6500 | 400 | 230 | | 7000 | 360 | 189 |
| | | | | | | | | | | | 105 |
| | 5500 | 440 | 104 | | 7000 | 400 | 240 | | 7500 | 360 | 105 |
| | 0000 | ++0 | | | 1000 | 400 | 240 | | 1000 | 1 | 130 |
| | | 560 | 164 | | | 560 | 156 | | | 560 | 110 |
| | 6000 | 480 | 225 | | 7500 | 440 | 223 | | 8000 | 360 | 204 |
| | | | | | | | | | | | |
| | | 560 | 185 | | | 560 | 164 | | | 560 | 115 |
| | 6500 | 480 | 236 | | 8000 | 440 | 232 | | 8500 | 360 | 210 |
| | | 1 560 | 195 | | | 1 560 | 171 | | | 1 560 | 120 |
| | 7000 | 520 | 224 | | 8500 | 440 | 240 | | 9000 | 360 | 217 |
| | | | | | | | | | | | |
| | | 560 | 204 | | | 560 | 178 | | | 560 | 125 |
| | 7500 | 520 | 233 | | 9000 | 480 | 224 | | 9500 | 360 | 223 |
| | | | | | | | | | | | |
| | 8000 | 560 | 213 | | 0500 | 560 | 185 | | 10000 | 560 | 130 |
| | 8000 | 500 | 222 | | 9500 | 460 | 231 | | 10000 | 300 | 229 |
| | | | | | | 560 | 191 | | | 560 | 134 |
| 30 | 1000 | 360 | 88 | | 10000 | 480 | 238 | | | | - |
| | | | | | | | | | | | |
| | | | | | | 560 | 198 | | | | |
| | 1500 | 360 | 105 | 45 | 2000 | 360 | 88 | | | | |
| | | | | | | | | | | | |
| | | 480 | 0/ | | | | | | | | |

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|-------------|---------------------|------------------|---------------------|
| NORMAL STEP | FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |

M117 750 LBS GP BOMB TABLES

| DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) |
|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|
| 0 | 500 | 360 | 159 | 15 | 1500 | 360 | 162 | 30 | 5000 | 360 | 227 |
| | | | I | | | | | | | | 1 |
| | | 560 | 103 | | | 560 | 88 | | | 560 | 128 |
| | 1000 | 360 | 219 | | 2000 | 360 | 192 | | 5500 | 360 | 240 |
| | | | I | | | | | | | | I |
| | | 560 | 143 | | | 560 | 107 | | | 560 | 136 |
| | 1500 | 440 | 218 | | 2500 | 360 | 219 | | 6000 | 360 | 252 |
| | | | | | | | | | | | |
| | 0000 | 560 | 173 | | 2000 | 560 | 124 | | 6500 | 560 | 145 |
| | 2000 | 520 | 214 | | 3000 | 300 | 244 | | 0500 | 400 | 234 |
| | | 1 560 | 199 | | | 560 | 140 | | | 560 | 153 |
| 5 | 1000 | 360 | 180 | | 3500 | 400 | 236 | | 7000 | 400 | 244 |
| | | | 1 | | | 1 | | | | | 1 |
| | | 560 | 107 | | | 560 | 155 | | | 560 | 161 |
| | 1500 | 360 | 223 | | 4000 | 440 | 228 | | 7500 | 400 | 254 |
| | | | 1 | | | | | | | | |
| | | 560 | 135 | | | 560 | 169 | | | 560 | 169 |
| | 2000 | 440 | 209 | | 4500 | 480 | 220 | | 8000 | 440 | 236 |
| | | | I | | | | | | | | |
| | | 560 | 159 | | | 560 | 183 | | | 560 | 177 |
| | 2500 | 480 | 214 | | 5000 | 520 | 213 | | 8500 | 440 | 245 |
| | | | | | | | | | | | |
| | 2000 | 500 | 181 | | 5500 | 500 | 195 | | 0000 | 190 | 184 |
| | 3000 | 520 | 217 | | 5500 | 520 | 220 | | 9000 | 460 | 220 |
| | | 1 560 | 200 | | | 1 560 | 207 | | | 1 560 | 101 |
| 10 | 1000 | 360 | 149 | | 6000 | 560 | 219 | | 10000 | 480 | 243 |
| | | | 1 | | 0000 | 000 | 2.0 | | 10000 | | 1 |
| | | 560 | 83 | | | | | | | 560 | 205 |
| | 1500 | 360 | 189 | 30 | 1000 | 360 | 83 | 45 | 4000 | 360 | 138 |
| | | | 1 | | | | | | | | 1 |
| | | 560 | 107 | | | | | | | 560 | 73 |
| | 2000 | 360 | 222 | | 1500 | 360 | 107 | | 4500 | 360 | 148 |
| | | | I | | | | | | | | I |
| | | 560 | 129 | | | 480 | 69 | | =000 | 560 | 79 |
| | 2500 | 400 | 223 | | 2000 | 360 | 129 | | 5000 | 360 | 158 |
| | | 560 | 140 | | | 560 | 67 | | | 560 | 95 |
| | 3000 | 440 | 149 | | 2500 | 360 | 1/8 | | 5500 | 360 | 167 |
| | 3000 | 440 | | | 2000 | 1 | 140 | | 5500 | 1 | |
| | | 560 | 167 | | | 560 | 78 | | | 560 | 91 |
| | 3500 | 480 | 220 | | 3000 | 360 | 167 | | 6000 | 360 | 176 |
| | | | I. | | | 1 | | | | | |
| | | 560 | 183 | | | 560 | 89 | | | 560 | 97 |
| | 4000 | 520 | 216 | | 3500 | 360 | 183 | | 6500 | 360 | 184 |
| | | | | | | | | | | | |
| | | 560 | 199 | | | 560 | 99 | | | 560 | 103 |
| | 4500 | 560 | 213 | | 4000 | 360 | 199 | | 7000 | 360 | 192 |
| | | | | | | | | | | | 100 |
| 15 | 1000 | 060 | 106 | | 4500 | 560 | 109 | | 7500 | 560 | 109 |
| 15 | 1000 | 30U I | 120 | | 4500 | 30U 1 | 214 | | 1000 | 30U I | 206 |
| | | 560 | 67 | | | 560 | 110 | | | 560 | 11/ |
| | | 500 | 07 | | | 000 | 110 | | | 500 | 114 |

| NORMAL STEP FULL PROCEDURE STEP CONDITIONAL STEP NON-FUNCTIONAL ST | NORMAL STEP FULL PROCEDURE STEP | CONDITIONAL STEP | NON-FUNCTIONAL STEP |
|--|---------------------------------|------------------|---------------------|
|--|---------------------------------|------------------|---------------------|

2.75 INCH FFAR FROM LAU-3 and LAU-68 LAUNCHERS

| DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) |
|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|
| 10 | 900 | 360 | 47 | 30 | 2750 | 360 | 40 | 45 | 7000 | 360 | 37 |
| | | | 1 | | | | | | | | 1 |
| | | 560 | 16 | | | 560 | 11 | | | 560 | 6 |
| | 1250 | 360 | 51 | | 3000 | 360 | 41 | | 8000 | 360 | 40 |
| | | | 1 | | | | 1 | | | | I |
| | | 560 | 20 | | | 560 | 12 | | | 560 | 7 |
| 15 | 1250 | 360 | 45 | | 3500 | 360 | 43 | 60 | 6500 | 360 | 18 |
| | | | I | | | | | | | | I |
| | | 560 | 15 | | | 560 | 12 | | | 560 | -5 |
| | 1500 | 360 | 47 | | 4000 | 360 | 45 | | 7000 | 360 | 19 |
| | | | I | | | | | | | | I |
| | | 560 | 17 | | | 560 | 13 | | | 560 | -5 |
| | 1750 | 360 | 49 | | 4500 | 360 | 47 | | 7500 | 360 | 19 |
| | | | | | | | | | | | |
| | | 560 | 18 | | | 560 | 15 | | | 560 | -5 |
| 20 | 1500 | 360 | 43 | | 5000 | 360 | 50 | | 8000 | 360 | 20 |
| | | | | | | | | | | | |
| | 1750 | 560 | 13 | 45 | 1000 | 560 | 16 | | 0500 | 560 | -5 |
| | 1750 | 360 | 44 | 45 | 4000 | 360 | 30 | | 8500 | 360 | 21 |
| | | | | | | | | | | | I |
| | 2000 | 000 | 15 | | 4500 | 000 | 4 | | 0000 | 000 | -0 |
| | 2000 | 360 | 40 | | 4500 | 360 | 31 | | 9000 | 360 | 21 |
| | | 560 | 16 | | | 560 | 1 | | | 560 | 5 |
| 30 | 2000 | 360 | 37 | | 5000 | 360 | 32 | | 10000 | 360 | -5 |
| 50 | 2000 | 1 | 1 | | 5000 | 1 | 1 | | 10000 | 1 | 20 |
| | | 1 560 | 10 | | | 560 | 5 | | | 1 560 | -5 |
| | 2250 | 360 | 38 | | 5500 | 360 | 33 | | 11000 | 360 | 24 |
| | 2200 | 1 | 1 | | 0000 | 1 | 1 | | 11000 | 1 | 24 |
| | | 560 | 10 | | | 560 | 6 | | | 560 | -5 |
| | 2500 | 360 | 39 | | 6000 | 360 | 34 | | 12000 | 360 | 26 |
| | | | 1 | | | | | | | | |
| | | 560 | 11 | | | 560 | 6 | | | 560 | -6 |
| | | | | | | | - | | | | |

M39 GUN/20MM HEI FIRING TABLES

| DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) | DIVE ANGLE | ALT. (FT) | IAS (KTS) | SIGHT DEP. (MILS) |
|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|---------------|--------------|--------------|----------------------|
| 10 | 600 | 360 | 6 | 15 | 1500 | 360 | 14 | 30 | 2200 | 360 | 8 |
| | | | | | | 1 | | | | | |
| | | 480 | 4 | | | 560 | 3 | | | 560 | -1 |
| | 800 | 360 | 10 | 20 | 1250 | 360 | 8 | | 2400 | 360 | 9 |
| | | | | | | | | | | | |
| | | 560 | 0 | | | 480 | 4 | | | 560 | -1 |
| | 1000 | 360 | 15 | | 1400 | 360 | 9 | | 2600 | 360 | 10 |
| | | | 1 | | | | 1 | | | | 1 |
| | | 560 | 2 | | | 560 | -1 | | | 560 | 0 |
| 15 | 900 | 360 | 8 | | 1600 | 360 | 10 | | 2800 | 360 | 11 |
| | | | | | | | | | | | |
| | | 480 | 4 | | | 560 | 0 | | | 560 | 1 |
| | 1000 | 360 | 9 | | 1800 | 360 | 12 | | 3000 | 360 | 13 |
| | | | 1 | | | | 1 | | | | 1 |
| | | 560 | -1 | | | 560 | 1 | | | 560 | 1 |
| | 1250 | 360 | 11 | | 2000 | 360 | 14 | | 3500 | 360 | 16 |
| | | | 1 | | | | 1 | | | | 1 |
| | | 560 | 1 | | | 560 | 2 | | | 560 | 4 |

THR = Throttle - LCP = Left Console Panel - LVP = Left Vertical Panel - IP = Instrument Panel PP = Pedestal Panel - ST = Stick - RVP = Right Vertical Panel - RCP = Right Console Panel