

Load Condition #1

48th FIGHTER INTERCEPTOR SQUADRON, LANGLEY

## F-106 LOADING STANDARDIZATION GUIDE

Aircraft Loading Preparation

## "A" Man

1. Assure proper location of A/C, Munitions (AIMs-FGFG), Tool Kit, and AGE equipment. Check missile container humidity indicators not pink. Check cockpit ladder is down.
2. Complete applicable entries on emergency page of checklist before briefing start. Brief "B" and "C" Man and A/C ground crew chief, if assigned.
3. Proceed to tail arresting hook. Physically check safety pin is properly installed. Go to right main wheel well and wait with "B" Man for "C" Man.
4. Check A/C forms at LH wheel well. Return forms to pouch in LH wheel well. Proceed along LH side of A/C to nose wheel well. Check gear pin installed and visually check nose door switch in door open position (do not actuate).

## "B" Man

1. Assist setting up load area, inspect door locks and position directly behind nose wheels. Cut safety-wire, obtain seals, and leave in tool box. Check handling bar in position and serviceable.
2. Briefing by "A" Man. Make emergency calls.
3. Check right main wheel chocked and safety pin installed. Open tool box and remove cover from meter. Wait with "A" Man for "C" Man.
4. Check left main wheel chocked and gear safety pin installed.

## "C" Man

1. Assist setting up load area. Check handling frame serviceable and in position. Check AGE equipment serviceable.
2. Briefing by "A" Man. Assist in fighting fire, and removing weapons if possible.
3. Check A/C grounded, appropriate fire fighting equipment available and ready for use on right side. Check right hand external tank safety pin installed.
4. Check left hand external tank safety pin installed. Check pneumatic pressure gauge (1500 psi minimum) and inform "A" Man of reading. Check external power receptacle not damaged and connect to A/C, if not already connected. If already connected, check secure.

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| 5. Install or check canopy jack and ejection seat pin installed.  | 5. Install cockpit ladder.   | 5. Check appropriate fire fighting equipment available and ready for use on left side. |
| 6. Check cockpit switches while standing on ladder.   | 6. Stand-by.   | 6. Stand-by.   |
| 7. Insure cockpit ladder removed by "B" Man.  | 7. Remove ladder.  | 7. Start generator or stand at left main wheel well if ground crew chief is available. |
| 8. Proceed to RH side of A/C. Stand-by until "B" Man signals ready for power.   | 8. Obtain door locks at nose wheels and proceed to Armt. Control Panel in right main wheel well. Inspect Reset and Armt. Pwr. fuses in flight position. Check Gun Clear Circuit Breaker is pulled out (open), if installed. Check Armt. Test Sw. in Normal position. Turn Armt. Lock Valve to Armt. Lock and insert safety pin. Signal "A" Man when ready for power. | 8. Wait for power on signal from "A" Man.  |
| 9. Visually Check Armament Bay Area Clear.  | 9. Visually Check Armament Bay Area Clear.   | 9. Visually Check Armament Bay Area Clear.   |
| 10. Signal for power on, check formation light on, and signal for "B" Man to open doors. Insure bay clear during doors open and launchers down. | 10. Upon signal from "A" Man, shout DOORS, and actuate door sw. to open position. Turn Armt. Lock Valve to Flight position and shout RAILS, then actuate aft rail sw. to down position. Repeat aft rail steps for forward rails.   | 10. If ground crew chief not available, apply power upon signal from "A" Man.          |

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| 11. After doors are open and launchers extended, observe "B" Man's signal for intervalometer reset.                                   | 11. Actuate intervalometer sw. to Reset position and check light illuminates. Signal "A" Man Reset.   | 11. Wait for signal from "A" Man for power off.   |
| 12. Signal "C" Man for power off.   | 12. Check reset press-to-test light for DC power off.   | 12. If ground crew chief not available, remove power upon signal from "A" Man.  |
| 13. Check formation light off and listen for proper seating of valves, when "C" Man turns manual door control valve to OPEN position. | 13. Turn Armt. Lock Valve to Lock position and insert safety pin. Hand left aft door lock to "C" Man.   | 13. Proceed to left main wheel well, turn Manual Door Control Valve to OPEN position, receive door lock from "B" Man, and install safety pin.   |
| 14. Observe proper installation of door locks.  | 14. Install RH aft door lock after "C" Man installs left aft. Then move fwd with "C" Man and install center and fwd door locks in same sequence. Position door lock container behind nose wheels. | 14. Install left aft door lock first. Then moving fwd with "B" Man, install center door lock before "B" Man installs his. Do same for fwd lock. |
| 15. Unload Evaluators (If applicable).  | 15. Unload Evaluators (If applicable).  | 15. Unload Evaluators (If applicable).  |
|   | 16. Obtain safety-wiring and sealing equipment, and go to cockpit. Install ladder, check canopy jack and seat pin installed. Enter cockpit and do the following:                                  |   |
|   | A. Safety-wire and seal Armt. Sel. Switch--Visident position.   |   |
|   | B. Safety-wire Arm Safe Switch--Safe position.  |   |
|   | C. Safety-wire and seal Rel. Lock Switch--Locked position.  |   |

Rack Preparation

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| <ol style="list-style-type: none"> <li>1. Leave checklist on tool box. Obtain rack tool and enter bay.</li> <li>2. Give rack tool to "C" Man.</li> <li>3. Visually check that aft shackle fully opens and that no binding is present in linkages. Receive breaker bar and socket from "C" Man.</li> <li>4. Leave bay and place breaker bar and socket in tool box. Re-enter bay and check breech de-armed with "C" Man.</li> <li>5. Inspect breech plate and plug receptacle.</li> <li>6. Check Aft, then Fwd pressure release valve for movement.</li> <li>7. Release fwd umbilical and stow protective cover. Inspect fwd umbilical plug. Inspect fwd umbilical retainer hooks. Hand fwd umbilical on either left or right hand retainers.</li> </ol> | <ol style="list-style-type: none"> <li>1. "B" Man will be safety-wiring and sealing in cockpit at this time.</li> </ol> | <ol style="list-style-type: none"> <li>1. Enter bay and visually check motor-driven rack lock-pin retracted.</li> <li>2. Obtain rack tool from "A" Man and open rack shackles.</li> <li>3. Visually check that fwd shackles fully open and that no binding is present in linkages. Hand breaker bar and socket to "A" Man.</li> <li>4. Disconnect breech electrical plug from breech receptacle and inspect for serviceability. Remove breech plate and inspect breech for carts removed. Tell "A" Man "Dearmed".</li> <li>5. Hold breech plate for "A" Man to inspect. Stow on top of rack.</li> <li>6. Release Aft umbilical plug and stow protective cover.</li> <li>7. Screw aft sway brace bolts to full up position. Screw jam nuts approximately half-way up.</li> </ol> |
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8. Inspect aft umbilical plug and electrical cable.

"B" Man will be safety-wiring and sealing in cockpit at this time.

9. Leave bay and obtain SEM box, then re-enter bay.

10. Inspect two SEMs and hand to "C" Man, one at a time. Observe SEMs installed positions #2 and #5 of breech.

11. Check Special Weapons Test Jack installed and safety-wired.

12. Leave bay and lay SEM box in tool box. Check off Rack Prep. steps on checklist and leave it in tool box. Obtain launcher cocking tool.

13. Enter bay between launchers #2 and #4 and visually check electrical breech plug connected. Proceed to launcher #1.

#### Launcher Inspection

1. Actuate missile-aboard switch to check switch clicks and to insure free movement. Check teflon roller rotates. Run fingers (no gloves) along fwd tracks and check for burrs or chips. Visually check rough areas in missile hook area.

8. Manually actuate Special Weapon Aboard and Rocket Gone Switches. Switches should click when actuated and click when released.

9. Inspect lanyards for serviceability and insure they are secured properly in rack. Allow the adapters to hang in extended position. Screw fwd sway braces fully up.

10. Install a serviceable cart-ridge type SEM in positions #2 and #5 of breech.

11. Install breech plate and tighten bolt finger tight. Insure that breech plate is properly aligned with index pin.

12. Connect electrical breech plug.

13. Check nose deflector fully extended (F-106B and M61A1 modified aircraft). Proceed to launcher #1 with "A" Man.

1. Check serviceable bonding strap on launcher. Run fingers (no gloves) along aft tracks and check for burrs or chips. Visually check rough areas in missile hook area.

2. Signal "C" Man to expose hold-back pin. After hold-back pin is exposed, push aft with cocking tool to expose umbilical.

3. Check exposed umbilical for serviceability. Inspect for cleanliness, corrosion, bent, burned, or broken pins.

4. Check hold-back pin for burrs or bending.

5. Give OK to "C" Man to close launcher.

6. Check hold-back pin fully retracted by running finger under pin area.

7. Repeat steps 1-6 on all remaining launchers. Inspection sequence is 1-3-2-4. Check off launcher inspection on checklist and leave in tool box.

#### AIM-4F/G Inspection

1. Start at casket #4. Check all latches flat against container. Open inlet valve and release end latches. Repeat for #3, #2, & #1.

"B" Man will be safety-wiring and sealing in cockpit at this time.

2. Expose hold-back pin by pulling spring-release handle fully aft, then the follower aft. Release spring-release handle and follower after cocked.

3. Inspect electrical harness serviceability and mounting bolts secured and safety-wired. Inspect rocket motor igniter and power supply plugs.

4. Check missile grounding bracket.

5. After OK from "A" Man, pull spring-release handle and push loading follower forward. Release spring-release handle.

6. Check spring-release handle fully forward. If not fully forward, use slight pressure to return it. Do not force handle forward.

7. Repeat steps 1-6 on all remaining launchers. Inspection sequence is 1-3-2-4.

1. Start at casket #4. Check all latches flat against container. Release end latch when "A" Man releases his. Repeat for #3, #2, & #1.

"B" Man will be safety wiring and sealing in cockpit at this time.

#1	#2	#3	#4
AIM-4F	AIM-4G	AIM-4F	AIM-4G
Rail	Rail	Rail	Rail
#1	#3	#2	#4

2. Remove covers from caskets in this sequence: 2-1-3-4. Insure cover does not strike missile. Inspect missile if ~~cover~~ <sup>COVER</sup> does contact missile.

3. Start at casket #4. Verify shorting cover closed on igniter connector (Do not lift). Tell "C" Man "Go". Inspect power start connector and exhaust nozzle weather seal.

4. Inspect aft missile launcher hooks, missile grounding pins, hold-back pin hole, and power pack exhaust diaphragm. Physically inspect triggering areas. Check for hydraulic fluid in container and remove T-handle or knurled knob pin on LH side.

5. Repeat steps 3 and 4 for remaining missiles. Insure missiles are in correct loading sequence.

6. Go to cockpit and visually inspect safety-wire and seals. Remove ladder. Proceed to tool box and check off steps on checklist. Leave checklist in tool box.

6. Leave cockpit when "A" Man has inspected seals and place tools in load tool box. Pick up handling bar.

#1	#2	#3	#4
AIM-4F	AIM-4G	AIM-4F	AIM-4G
Rail	Rail	Rail	Rail
#1	#3	#2	#4

2. Remove covers from caskets in this sequence: 2-1-3-4. Insure cover does not strike missile. Inspect missile if cover does contact missile.

3. Start at casket #4. Check pwr. supply and motor igniter cables. When directed by "A" Man, remove guidance unit cover and visually inspect guidance unit (360 degrees). Re-install cover. On G missiles check exhaust port plug installed.

4. Inspect missile umbilical for clean dry contacts. (If dirty clean with art gum eraser). Check fwd launcher hooks and remove T-handle or knurled knob pin on RH side.

5. Repeat steps 3 and 4 for remaining missiles. Insure missiles are in correct loading sequence.

6. Accompany "A" Man to left side of A/C. Return to right side of A/C with "A" and "B" Man and position handling frame in front of missile to be loaded. Set brake.

AIM-4F/G Loading

NOTE--Loading sequence will be rails 1-3-2-4.

1. Steady aft section of missile and keep nose slightly high and place on handling frame.

2. Move to forward section of handling frame and assist "C" Man to position missile parallel with aircraft (Keep nose cover streamer off ground).

3. After relieved at forward section of frame by "B" Man, go to aft right side of frame and assist in positioning frame under launcher to be loaded.

4. Assist "B" and "C" Man to install missile on launcher. Slide missile forward so it will clear tips of loading follower. Insure missile hooks engage on rail properly.

5. Pull missile frame aft until missile is locked into position. Push frame fwd to insure positive lock.

NOTE--Loading sequence will be rails 1-3-2-4.

1. Attach handling bar to missile to be loaded from RH side and hold locking handle in locked position with left hand. Assist "A" and "C" Man in placing missile on frame.

2. Remove handling bar when "C" Man installs pin. Place bar in empty casket.

3. After relieving "A" Man at forward section of frame, position frame under launcher to be loaded (Keep nose cover streamer off ground).

4. Assist "A" and "C" Man to install missile on launcher. Slide missile forward so it will clear tips of loading follower. Do not allow frame to hit missiles on forward launchers. Insure missile hooks engaged on rail properly.

5. Push missile frame aft until missile is locked into position. Check missile is secure by pulling forward on frame.

NOTE--Loading sequence will be rails 1-3-2-4.

1. Standing on LH side assist "A" and "B" Man place missile on handling frame.

2. Install T-handle pin in lower stabilizer. Release brake and assist "A" Man to position missile parallel with aircraft.

3. When "B" Man is ready, position frame under launcher to be loaded.

4. Assist "A" and "B" Man to install missile on launcher. Slide missile forward so it will clear tips of loading follower. Insure missile hooks engage on rail properly. Pull and hold spring-release handle.

5. Pull missile frame aft until missile is locked into position. Release spring-release handle and push frame forward to insure positive lock. Check handle is fully forward and that missile is grounded.



6. Lower handling frame and go to aft of next missile to be loaded.

7. Repeat steps 1-6 for remaining missiles to be loaded. Obtain checklist from tool box and check off missile loading. Keep checklist in hand.

8. Positioned at RH side of A/C, signal for power.

9. Check formation light illuminated for power on.

10. Inspect SEM and enter bay behind "B" Man. Inspect SEM on each rail (Sequence 2-1-3-4) and after removal from rail #4.

11. Proceed to front RH side of A/C and signal for power off. Observe formation light for power off.

12. Supervise "B" and "C" Man connecting cables from launcher to missiles. Give "Stand Clear" when "B" and "C" Man are ready to connect igniter cable to missile.

6. Lower handling frame and place handling bar on next missile to be loaded.

7. Repeat steps 1-6 for remaining missiles. After last missile is loaded, place handling bar in holder.

8. Positioned at Armt. Control Panel in right main wheel well, wait for power on.

9. Check Intervalometer Reset press-to-test light for power on.

10. Obtain SEM and show to "A" Man. Enter bay and install SEM on launchers (Sequence 2-1-3-4). Show SEM to "A" Man after removal from rail #4 and stow in SEM box. *Check formation light for power off.*

11. Move to aft section of launcher #2 and receive two sets of cables from "C" Man.

12. Connect power supply cable to launcher #2, then to missile. Connect igniter cable to launcher #2, then to missile (position yourself at arms length and turn head away when connecting rocket motor igniter cable to missile). Repeat for launcher #4 (Physically check all connectors are secured. Insure orange rings are visible.

6. Remove T-handle pin. Lower frame and position in front of next missile to be loaded. Set brake.

7. Repeat steps 1-6 for remaining missiles. After last missile is loaded, return frame to original position and insure pin installed and brake set.

8. Proceed to power unit, if ground crew chief not available. Apply power upon signal from "A" Man.

9. Obtain four sets of missile cables from caskets.

10. If ground crew chief not available proceed to power unit and stand-by to remove power.

11. If ground crew chief not available, remove power upon signal from "A" Man. Move to aft section of launcher #1 and hand two sets of cables to "B" Man.

12. Connect power supply cable to launcher #1, then to missile. Connect igniter cable to launcher #1, then to missile (position yourself at arms length and turn head away when connecting rocket motor igniter cable to missile). Repeat for launcher #3 (Physically check all connectors are secured. Insure orange rings are visible.

13. Observe removal of guidance unit protective covers and guidance unit inspection. (Aft, then Fwd.).

14. Visually Check Armament Bay Area Clear.

15. Signal "C" Man to apply power. Check formation light for power on. Signal "B" Man power is on.

16. Supervise launcher retraction. (Aft, then Fwd).

13. Remove #4 guidance unit cover and inspect guidance unit. Repeat for #2 station. Receive two protective covers from "C" Man and stow in missile casket #3.

14. Visually Check Armament Bay Area Clear.

15. When "A" Man signals power on, remove safety pin and turn Armt. Lock Valve to Flight position.

16. Actuate aft launcher control switch to up position (hold switch until launchers are fully retracted). Repeat for fwd launchers. Turn Armt. Lock Valve to Armt. Lock and insert safety pin. Inform "A" Man "Pin In".

13. Remove #3 guidance unit cover and visually inspect guidance unit. Repeat for #1 station. Give both covers to "B" Man and move to pwr. unit if ground crew chief not available.

14. Visually Check Armament Bay Area Clear.

15. If ground crew chief not available, apply power upon signal from "A" Man.

16. Proceed to tool box and obtain meter and umbilical test cable.

#### Rack Stray Voltage Check

1. After "B" Man says "Pin In", enter bay and inspect underside of missiles.

2. Monitor meter ohms check. Say "OHMS CHECK".

3. Say "STRAY VOLTAGE CHECK" and instruct "C" Man to connect test lead to aft umbilical. Say "CONNECT". Monitor meter for

1. Enter bay.

2. Receive meter from "C" Man, and perform meter ohms check. Set Function switch to OHMS and Range switch to OHMS X 1, at direction of "A" Man. Say "OHMS CHECK GOOD", if meter needle deflects.

3. When directed by "A" Man, turn Function switch to ACV 1K OHMS and Range switch to .5. Monitor meter for absence of stray voltage. Say

1. Enter bay with meter and umb. test cable.

2. Hand meter to "B" Man. Insure shorting cap installed on test cable for ohms check.

3. Disconnect shorting cap and connect test cable to aft umbilical of MB-1 rack, after OK from "A" Man. Say "CONNECTED".

absence of stray voltage.

4. After "B" Man says no stray voltage, look at aft umbilical to insure that it is connected. Instruct "C" Man to disconnect cable from aft umbilical. Check meter for proper operation. Say "OHMS CHECK".

5. Exit bay with "B" and "C" Man and signal "C" Man to remove power. Check formation light off.

6. Enter bay and remove SEMs, one at a time. Check that red indicator does not extend into glass vial. Hand to "B" Man.

NOTE--Aircraft becomes a critical component when SEMs are removed from breech.

7. Clear bay and exit with "B" Man. Obtain flashlight from tool box.

#### AIR-2A Inspection

1. Positioned on RH side of rocket, physically check rocket motor safety pin installed.

2. Visually inspect right side of rocket for damage.

"NO STRAY VOLTAGE", if no stray voltage is indicated.

4. Turn Function switch to OHMS position and Range switch to OHMS X 1, at direction of "A" Man. Say "OHMS CHECK GOOD", if meter needle deflects. Turn Function switch to 100 UA Special and Range switch to .5.

5. Exit bay with "A" and "C" Man. Put lid on meter and place meter and test leads in tool box. Check formation light for power off while stowing meter. Obtain SEM box.

6. Enter bay. Receive SEMs from "A" Man and place in SEM box.

NOTE--Aircraft becomes a critical component when SEMs are removed from breech.

7. Clear bay and exit with "A" Man. Place SEM box in tool box. Close right main wheel well door.

1. Watch "A" Man check safety pin installed in rocket. Remove protective cover.

2. Physically check to insure fore & aft, lateral, and pitch adjustment crank handles in 6 o'clock position.

4. Disconnect test cable and install shorting cap, at direction of "A" Man. Say "DISCONNECTED". After ohms check, hand leads to "B" Man.

5. Exit bay with "A" and "B" Man. Proceed to power unit and remove power at direction of "A" Man, if ground crew chief not available.

6. Enter bay and remove breech electrical plug and breech plate. Stow breech plate. Exit bay and stand-by at left main wheel well.

NOTE--Aircraft becomes a critical component when SEMs are removed from breech.

7. Close left main wheel well door. Remove drip cans, if applicable.

1. Watch "A" Man check safety pin installed in rocket. Remove protective cover and stow.

2. Physically check rocket grounded to trailer.

3. Check aft launch lug red dye mark intact.

4. Visually inspect aft and left side of rocket for damage.

5. Visually inspect nose of rocket for damage.

6. Check off AIR-2A Inspection steps on checklist.

#### AIR-2A Loading

1. Release RH brake and help align trailer under MB-1 rack. Supervise lateral alignment of rocket under rack (from nose of rocket).

2. Remove rocket forward umbilical and RH initiator receptical covers and hand to "B" Man. Visually inspect fwd and aft rocket umbilicals and initiator recepticals with flashlight.

3. Stow travel strap on RH side of MF-9.

3. Check cradle tie-down straps are locked down. Check travel strap locked down.

4. Check cradle locking handle safetied. If safety wire broken or missing, reject trailer for loading.

5. Check lift arm travel lock in locked position. Check roll brake tight. Check trailer fwd inner frame travel locks in locked position.

6. Check trailer pintle hook closed and pin installed.

1. Release LH brake and help align trailer under MB-1 rack. Align rocket at aft of bay and set LH trailer brake.

2. Remove rocket aft umbilical and LH initiator protective covers and stow on MF-9 trailer.

3. Remove travel tie-down strap and hand to "A" Man.

3. Visually check condition and security of dacron fin security ties.

4. Check selector valve in OFF position. Turn release valve to closed position.

5. Check aft trailer inner frame travel locks in locked position.

6. Pick up MF-9 trailer tow bar and stand ready to move trailer.

1. Steer MF-9 trailer and position under MB-1 rack.

2. Unwind trailer ground and ground trailer to A/C in static ground receptical. (If A/C ground is unserviceable, go to another grounding point. If A/C grounding point is missing decal, consider that grounding point unserviceable).

3. Turn selector valve to LIFT ARM position.

4. From nose of weapon, give "C" Man signal to raise rocket to approximately 4 inches from rack. (Protect nose of weapon with checklist). Insure adequate clearance is maintained between rocket and any obstruction. Inspect rocket if contact is made.

5. At 4 inches, protect nose of rocket and instruct "B" Man to roll MF-9 trailer forward until nose of rocket is approximately checklist thickness from blast panel. (Half of checklist for modified A/C).

6. Connect fwd umbilical, then RH lanyard from RH side of rocket. Instruct "B" Man to make adjustments as required.

7. Instruct "C" Man to raise rocket to approximately one half inch from rack. Assist "B" Man to make final adjustments. Check fwd umbilical cable for proper routing between retainers.

8. Check alignment of fwd and aft umbilical and hold aft umbilical in aligned position with rack. Instruct "C" Man to pump up slowly until all three shackles close. (Insure fwd umb. retainers are mating with umb. properly, as rocket is raised).

9. Check aft shackle correctly

4. Unlock trailer lift arm travel lock. After rocket clears MF-9 frame, align cradle with index pointer on trailer lift arm centering mark. Tell "C" Man STOP when rocket is approximately 4 inches from rack.

5. Upon signal from "A" Man release LH brake and roll MF-9 trailer forward. After OK from "A" Man, set LH brake.

6. Connect aft umbilical, then LH lanyard from LH side of rocket. After OK from "A" Man make adjustments as required to align rocket.

7. When one half inch from rack, tell "C" Man to STOP. Loosen roll brake. Make final adjustments as required to align rocket lugs with shackles.

8. Check alignment of fwd umbilical retaining hooks and umbilical. After aft lug engages, crank cradle fwd, as required, to align fwd lugs as rocket goes up into rack.

9. Physically check aft sear indicator

4. Upon signal from "A" Man raise rocket to approximately 4 inches from rack. Insure adequate clearance is maintained between rear of rocket and any obstruction.

5. Insure adequate clearance is maintained between rear of rocket and any obstruction.

6. Stand-by.

7. Upon "A" Man's instructions, raise rocket slowly to approximately one half inch from rack. Insure adequate clearance is maintained between rear of rocket and any obstruction.

8. After instructed by "A" Man, raise rocket slowly until locked into rack. If pumping becomes difficult or if fluid is venting, stop and inform "A" Man.

9. Exit bay after positive lock

closed on aft lug. Check aft umbilical fully inserted, with both retainers clipped-in. Check fwd lugs engaged in shackles properly. Move to nose of rocket and, using flashlight, check fwd sear indicators in over-center(locked) position. Say "Positive Lock". Check fwd umbilical fully inserted, with all four retainers positioned correctly to retain fwd umbilical.

10. Go to LH side of trailer and signal "C" Man for power.

11. Using flashlight, check motor-driven rack lock-pin fully inserted. Signal "C" Man power off.

12. From RH side of rocket receive tie-down straps from "B" Man (fwd, then aft). Use caution not to hit missile or catch in aft umbilical cable.

13. Instruct "C" Man to lower cradle slowly. Insure rocket weight is not on cradle, then signal "C" Man to lower lift arm completely. Visually check rocket cradle area for damage.

14. Assist "B" Man to secure tie-down straps. Hand "B" Man fwd strap, then aft strap. Then travel tie-down strap.

in over-center(locked) position. Inform "A" Man "Positive lock aft". Assist "A" Man, if required.

10. Watch "A" Man.

11. Check lock-pin fully inserted.

12. Tighten roll brake. Remove tie-down straps and push thru to "A" Man. (Fwd, then aft).

13. After cradle has cleared rocket, center cradle laterally and run it full fwd. Visually check rocket cradle area for damage. Place trailer lift arm travel lock in Lock position.

14. Receive from "A" Man fwd, then aft strap. Receive travel tie-down strap and secure to trailer.

signal from "A" Man. If ground crew chief not available, stand-by to apply power.

10. Upon signal from "A" Man, apply power to A/C.

11. Upon signal from "A" Man, remove power from A/C. Proceed to tow bar on trailer.

12. Stand-by.

13. Upon signal from "A" Man, pull back on lift arm release lever and turn pressure release valve counter-clockwise to slowly lower cradle. After cradle clears rocket completely, open pressure release valve and inspect rocket in cradle area for damage.

14. Disconnect trailer ground wire from rocket, then from A/C and wind on MF-9 trailer. Turn selector valve to OFF position and close pressure release valve and back off one half turn.

15. Clear the bay and push trailer from under A/C. Park in designated place. Set RH brake.

16. Stand-by to enter bay with "B" and "C" Man.

### Loading Completion

1. Enter bay with "B" and "C" Man. Using flashlight, check forward and aft umbilicals fully seated in rocket receptacles. Check all retainers positioned correctly. Exit bay, stow flashlight, and obtain five carts from tool box. Enter bay, ground yourself, and inspect carts for serviceability.

2. Receive completions from "B" and "C" Man on sway braces, switches actuated, and lanyards connected.

3. Hand five carts, one at a time, to "B" Man. Receive torque wrench from "C" Man and inspect for serviceability and proper setting (940 inch lbs. or 78 ft. lbs.). Hand to "B" Man and watch torque of breech bolt. Receive from "B" Man, check proper torque setting, and give to "C" Man.

15. Release LH brake and push trailer from under A/C to designated parking place. Set LH brake.

16. Open right main wheel well door.

1. Obtain 9/16 open end wrench from tool box and enter bay with "A" and "C" Man. Tighten fwd and aft sway braces down finger tight. Tighten fwd sway brace lock nut and hand wrench to "C" Man. Tighten aft sway brace jam nut finger tight. Physically check rocket gone switch is tight against rocket and lanyards connected.

2. Inform "A" Man sway braces down, switch actuated, and lanyard connected.

3. Install five carts in breech assembly and install breech plate and bolt. Insure proper alignment of breech plate and indexing pin. Receive torque wrench from "A" Man and torque breech bolt to 940 inch lbs. or 78 ft. lbs. Hand torque wrench to "A" Man.

15. Hold tow bar and steer trailer out of bay to designated parking place. (Do not force "A" Man under right wing tank).

16. Replace drip pan (if applicable). Open left main wheel well door.

1. Enter bay with "A" and "B" Man and tighten fwd and aft way braces down finger tight. Tighten aft sway brace jam nut down finger tight. Receive wrench from "B" Man. Tighten fwd sway brace lock nut. Check that rocket aboard switch is tight against rocket and that lanyard connected.

2. Inform "A" Man sway braces down, switch actuated, and lanyard connected.

3. Exit bay and obtain torque wrench, 1 1/8th inch socket, and 4 inch extension from tool box. Set wrench at 940 inch lbs. or 78 ft. lbs. Hand to "A" Man and receive cart box. Stow cart box in tool box and receive torque wrench from "A" Man. Set on lowest torque value and stow in tool box.

4. Observe "B" Man connect breech plug. Give "Bay Clear" and remove rocket motor safety pin. Exit bay with "B" Man. Visually check bay clear.

5. Observe "B" and "C" Man removing door locks. From front of bay, visually check for FOD. Count six door locks in container when "B" Man positions container at nose wheels.

6. Visually Check Armament Bay Area Clear.

7. Signal "C" Man to apply power. Check formation light for power on. Signal "B" Man to close doors.

8. Proceed to cockpit area with "B" Man (Hand rocket motor safety pin to "B" Man on the way). Enter cockpit and check lock indicator shows LOCK. Check for missile displacement light #22 and check light with test switch. Signal "C" Man to remove power.

4. Connect breech plug and observe "A" Man remove rocket motor safety pin. Exit bay with "A" Man.

5. Complete FOD check of bay doors. (On top and in-between doors). Remove right forward door lock before "C" Man removes left forward. Remove remaining door locks in this same sequence. Remove safety pin and turn Armt. Lock Valve to Flight position. Stow door locks in container and place behind nose wheels.

6. Visually Check Armament Bay Area Clear. Stand-by in right main wheel well.

7. After signal from "A" Man, shout "Doors", and actuate door close switch to close position.

8. Proceed to cockpit with "A" Man and install ladder. Follow "A" Man up ladder and check the following with "A" Man: Check lock indicator shows LOCK. Check for missile displacement light #22 and check light with test switch. (Remember, only one man on ladder at any one time).

4. Proceed to left forward door actuator area.

5. Complete FOD check of bay doors. (On top and in-between doors). Remove left forward door lock after "B" Man removes right forward door lock. Remove remaining door locks in this same sequence. Remove safety pin and hand door lock to "B" Man.

6. Say "Clear Bay" and turn manual door control valve to Closed position. Obtain A/C forms. If ground crew chief not assigned, stand-by to apply power.

7. Upon signal from "A" Man, apply power to A/C. Enter form entry in 781A.

8. Remove power when signaled by "A" Man. Turn off generator. Continue on form entry/entries.



9. Perform remaining cockpit checks and exit cockpit. Fill out Armt. placard. Obtain A/C forms from "C" Man and verify correct entry/entries. Receive rocket motor safety pin from "B" Man and place in forms. Return A/C forms to pouch in left main wheel well.

10. Go to RH side of A/C with "B" and "C" Man. Observe clean-up. Go to front RH side of A/C with crew, insure remaining checklist steps checked off, and state "Load Complete".

9. Keep your eyes on "A" Man's hands during remaining checks. Exit cockpit with "A" Man and remove ladder. Give "A" Man rocket motor safety pin.

10. Go to LH side of A/C with "A" and "C" man. )Close end latches and inlet valves after replacing casket lids). Remove load tool box and place in designated spot. Go to front right hand side of A/C for load completion.

9. Come to cockpit ladder and hand A/C forms to "A" Man.

10. Go to RH side of A/C with "A" and "B" Man. Replace casket lids. FOD check the area. Go to front right hand side of A/C for load completion.