

**NWP 3-22.5-FA18A/B/C/D  
PG (Rev. A)  
A1-F18AC-TAC-300**

**TACTICAL  
MANUAL  
POCKET GUIDE**

**F/A-18  
A/B/C/D  
AIRCRAFT**

THIS PUBLICATION SUPERSEDES NWP 5-55-F/A-18 PG (REV. C) (A1-F18AC-TAC-300) DATED SEPTEMBER 1994 WITH CHANGE 4 DATED SEPTEMBER 1998.

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**AUGUST 2001**

**NWP 3-22.5-FA18A/B/C/D PG  
(Rev. A)  
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**AUGUST 2001**

# NWP 3-22.5-FA18A/B/C/D PG (Rev. A)

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17.....	0	46.....	0	75.....	0
18.....	0	47.....	0	76.....	0
19.....	0	48.....	0	77.....	0
20.....	0	49.....	0	78.....	0
21.....	0	50.....	0	79.....	0
22.....	0	51.....	0	80.....	0
23.....	0	52.....	0	81.....	0
24.....	0	53.....	0	82.....	0
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115.....	0				
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## INTERIM CHANGE SUMMARY

*The following Interim Changes have been canceled or previously incorporated in this manual:*

INTERIM CHANGE NUMBER(S)	REMARKS/PURPOSE

*The following Interim Changes have been incorporated in this Change/Revision:*

INTERIM CHANGE NUMBER	REMARKS/PURPOSE

*Interim Changes Outstanding - To be maintained by the custodian of this manual:*

INTERIM CHANGE NUMBER	ORIGINATOR/DATE (or DATE/TIME GROUP)	PAGES AFFECTED	REMARKS/PURPOSE

# COMBAT CHECKS

## PREFLIGHT

1. SMP set
2. ALE-39 loadout/settings reset
3. VTR tape
4. Mode II check
5. IFF DIS/AUD/IR COOL

## GROUND

1. WYPTS/SEQ/A-A WYPT
2. NCTR / RALT / BALT
3. Radar Attack - DCLTR/CHAN/SETS/(training)
4. AZ/EL
5. SMS
  - a. (SIM)
  - b. Gun
  - c. SP tune/AM test
  - d. A/G PROG
  - e. WPN SEL
  - f. ◇
6. Smart weapons checks
7. Time - SET
8. FLIR - STBY

## AIRBORNE

1. Cycle A/G - Racks unlock
2. ALR-67/ALQ/FLIR - ON
3. Check Radar - CHAN/(SIM)/SETS/CAL
4. Bingo Bug - SET
5. ALQ/ALR - BIT
6. ACM modes/AIM-9/FLIR

**(OP AREA)/POST TANKING**

1. Master arm switch - ARM (check SIM)
2. A/A TACAN
3. Contrails/environment
4. G-suit/valve/G-warm
5. RALT
6. SEL JETT
7. ALE - Setup
8. Alpha check
9. Expendables - Check
10. Smart weapons checks

**COMMIT/INGRESS**

1. Master arm switch - ARM (check SIM)
2. IFF
3. ALQ - REC/RPT/XMIT
4. EXT Lights
5. VTR

**RTF**

1. EXT lights
2. IFF
3. ALQ - REC
4. Fuel - Check/BINGO bug - RESET
5. Master Arm switch - SAFE
6. SEL JETT
7. Dispenser
8. Battle damage checks
9. ALQ/ALR/FLIR - OFF

### STORES INFORMATION

SMP codes with letters are only applicable to F/A-18C/Ds. Throughout the table "n/a" means not applicable.

Designation	SMP	DDI	Stores	Wt. (lbs)
Empty Station	00 <sup>1</sup>	blank	No SUU-62 or -63 pylon mounted	0
<b>A/A37B-6E</b> MER-7	n/a	n/a	non-ZRF Multiple Ejector Rack for practice bombs, flares, and MLMs	200
<b>AAR-50</b> Nav FLIR pod	00 <sup>2/3</sup>	NFLR	AN/AAR-50 Thermal Imaging Navigation Set (TINS)	214
<b>AAS-38</b> Tgt FLIR pod	00 <sup>2</sup>	FLIR	AN/AAS-38 FLIR AN/AAS-38A w/Lsr Tgt Desig/Rngfd (LTD/R) AN/AAS-38B w/Laser Spot Tracker (LST)	353 370 372
<b>AIM-7</b> Sparrow III	84	7F 7M 7M <sup>4</sup> 7H <sup>4</sup> 7H <sup>4</sup> 7H <sup>4</sup>	CATM-7F-3: captive trainer AIM-7M: monopulse seeker ATM-7M: live trainer-telemetry 'warhead' AIM-7M (H-build): improved GCS AIM-7P: improved low altitude capability ATM-7P: live trainer-telemetry 'warhead'	510 509 509 510 509 509
<b>AIM-9</b> Sidewinder	81 <sup>5</sup> for all -9Ls 80 <sup>5</sup> for all -9Ms	9L 9M 9L/9M 9L/9M 9L/9M 9L/9M	AIM-9L-1: all-aspect AIM-9M-1, -3, -4, -6, -8: improved IRCCM NATM-9L/M-1: live trainer-smoke/flash NATM-9L/M-2: live trainer-telemetry CATM-9L/M-2,-4,-6,-8: captive trainer CATM-9L/M-2,-4,-6,-8: without fins/wings	196 196 200 196 195 163

<sup>1</sup> For OFPs 91C, not required for later OFPs.

<sup>2</sup> Code for AYK-22 SMS only; not applicable for AYQ-9 SMS.

<sup>3</sup> Store not available on F/A-18A/B.

<sup>4</sup> AIM-7M (H-build) and AIM-7P initially displayed as '7M' and must be manually stepped to '7H'.

<sup>5</sup> With AYK-22 SMS these codes are used for wingtip-mounted missiles instead of the 1, 2, 3, or 4 codes used by the AYQ-9.



Authorized Wingtip Configurations & AYQ-9 SMP Codes								
Right Sta. 9 → ↓ Left Sta. 1	Empty	AIM-9M	CATM-9M	NATM-9M	AIM-9L	CATM-9L	NATM-9L	TACTS pod
Empty	0	1	1	1	2	2	2	6
AIM-9M	1	1	1	1	3	3	3	P
CATM-9M	1	1	1	1	3	3	3	1
NATM-9M	1	1	1	1	3	3	3	P
AIM-9L	2	4	4	4	2	2	2	P
CATM-9L	2	4	4	4	2	2	2	2
NATM-9L	2	4	4	4	2	2	2	P
TACTS Pod	5	P	1	P	P	2	P	L
P = Prohibited configuration L = Logistic carriage only; use either SMP code 5 or 6								

AYQ-9 Wingtip DDI Legends		
Station → ↓ Code	Station 1	Station 9
0	-	-
1	9M	9M
2	9L	9L
3	9M	9L
4	9L	9M
5	TST	-
6	-	TST

**CAUTION**

During simulated training (weapons not loaded), closing the hooks of BRU-32/A or VER (BRU-33/A) on outboard pylons is prohibited, when codes for weapons listed below and an AIM-9 wingtip code are entered on the armament computer.

Mk 83	GBU-16	AGM-84E
Mk 84	GBU-10	AGM-88
Mk 40	GBU-24	Mk 55
Mk 41		LAU-10
Mk 63		
Mk 64		
Mk 65		

Designation	SMP	DDI	Stores	Wt. (lbs)
<b>Walleye I</b> 1,000 lb EO-Guided Bomb	69	WEDL	Mk 21 ER/DL, Phase I	1,224
		WEDL	Mk 29 ER/DL, Phase II	1,224
		WEDL	Mk 34 ER/DL, Phase II Haze Penetrator	1,224
<b>Walleye II</b> 2,000 lb EOGB	69 <sup>1</sup>	WEDL	Mk 23 ER/DL, Phase I	2,415
		WEDL	Mk 30 ER/DL, Phase II	2,415
		WEDL	Mk 37 ER/DL, Phase II Haze Penetrator	2,415
<b>Walleye Practice</b> Guided Weapon (PGW) (without wings)	69	WEDL	Mk 27 cap. DL, Phase I	1,130
		WEDL	Mk 38 cap. DL, Phase I Haze Penetrator	1,130
		WEDL	Mk 39 cap. DL, Phase II Haze Penetrator	1,130
<b>AGM-65</b> Maverick	65	MAV MAV	AGM-65E: Laser Guided A/A37A-T9: TGM-65E: captive laser trainer	642 642
	66 <sup>2</sup>	MAVF MAVF	AGM-65F: imaging infrared guided CATM-65F: cap IIR trainer	669 669
<b>AGM-84D</b> Harpoon	62	HPD	AGM-84D: Block 1C	1,221 <sup>3</sup>
	63	THPD THPD THP	ATM-84D-1: exercise-telemetry 'warhead' ATM-84D-1A: exercise-inert warhead CATM-84D-1: inert captive trainer	1,213 <sup>3</sup> 1,221 <sup>3</sup> 1,151

<sup>1</sup> Aircraft gross weight computation and 'in range' cues are unreliable.

<sup>2</sup> Not available with F/A-18A/B.

<sup>3</sup> Missiles fueled with JP10; those fueled with JP5 weigh 20 lbs less.

Designation	SMP	DDI	Stores	Wt. (lbs)
AGM-84E SLAM	67	SLAM	AGM-84E Standoff Land Attack Missile	1,366
	70	TSLM TSLM	ATM-84E-1C: exercise-telemetry 'warhead' CATM-84E-1C: captive trainer	1,360 1,360
AGM-84H SLAM ER	F0	SLMR	SLAM ER: CATM/Tactical	1480
	F0	TSLR	SLAM ER: telemetry	1484
	F0	DL13	AWW-13	707
AGM-88 HARM	64	HARM	AGM-88A: Block II seekers CATM-88A: captive trainer	800
			AGM-88B: Block II & III seekers ATM-88B: live trainer, inert warhead CATM-88B: captive trainer	
			AGM-88C: Block IV seekers <sup>1</sup> CATM-88C: captive trainer	
AIM-120 AMRAAM	F0 <sup>2</sup>	AM/AA <sup>3</sup>	AIM-120A, Adv. Med. Rng. Air-to-Air Msl.	347
		AM/AB <sup>3</sup>	AIM-120B (production improvements)	347
		AM/AC <sup>3</sup>	AIM-120C (compressed carriage)	345
ADM-141 TALD	25 <sup>4</sup>	82P	ADM-141A: active/passive RF aug.	400
		82P	ADM-141B: chaff dispensing	382
AGM-154A JSOW	F0 <sup>2</sup>	JSA	AGM-154A: 145 x BLU-97A/B CEM CATM-154A: Captive Flight Vehicle (CFV)	1030 1030
	F0 <sup>2</sup>	TJSA		
	91 <sup>5</sup>	52		

<sup>1</sup> Not available with F/A-18A/B.

<sup>2</sup> NAWCWD-installed telemetry (TM) sections authorized.

<sup>3</sup> Codes on the left are for OFP 91C, those on the right are for OFP 11C and later.

<sup>4</sup> Stores forced to use 'best available' store codes and ballistics intended for other stores.

<sup>5</sup> For logistic carriage of AGM or CATM-154 when the MIL-STD-1760 umbilical is not connected.

Designation	SMP	DDI	Stores	Wt. (lbs)
ALE-39 or -47 Chaff Dispenser	n/a	n/a	fuselage-mounted countermeasure dispensers DN/ALE-29A dispenser housing (w/carts)	empty/full
			RR-129/AL chaff (30=08.9 lbs)	9 / 18 <sup>1</sup>
			RR-144/AL training chaff (30=08.9 lbs)	9 / 18 <sup>1</sup>
			RR-191/AL chaff/flare (30=13.1 lbs)	9 / 22 <sup>1</sup>
			MJU-8?B flare (30=15.8 lbs)	9 / 25 <sup>1</sup>
MJU-8A/B decoy device (30=15.8 lbs)	9 / 25 <sup>1</sup>			
MJU-27/B flare (30=18.0 lbs)	9 / 27 <sup>1</sup>			
MJU-27A/B flare (30=25.0 lbs)	9 / 34 <sup>1</sup>			
SM-875/ALE flare simulator (30=06.0 lbs)	9 / 15 <sup>1</sup>			
RT-1489/ALE Gen-X act payld (30=35.0 lbs)	9 / 44 <sup>1</sup>			
ALQ-167 ECM Pod	24 <sup>2</sup> , 25 <sup>2</sup> , or 54 <sup>2</sup> for any	82B, 82P, or EWPD	ALQ-167(V)-10, -14, -15, -21, -25, -50, -52	310 max
			ALQ-167(V)-11, -20	322 max
			ALQ-167(V)-22	326
			ALQ-167(V)-30: CV-qualified training pod	238
			ALQ-167(V)-31, -32, -40	274 max
			ALQ-167(V)-33	272
			ALQ-167(V)-61	306
			ALQ-167(V)-70: CV-qualified TCP	286
ALQ-167(V)-71: CV-qualified TCP	279			
ASQ-173 LDT/Cam Pod	00 <sup>3</sup>	LST	AN/ASQ-173 Laser Detector (formerly Spot) Tracker/Strike Camera pod	165

<sup>1</sup> Weight for one bucket, two (ALE-39) or four (ALE-47) buckets installed: each bucket contains 30 expendables.

<sup>2</sup> For OFP 91C, use of code 24 or 25 is optional, but selected code must be unique for aircraft load. Use code 54 with later OFPs.

<sup>3</sup> Code for AYK-22 SMS only; not applicable for AYQ-9 SMS.

Designation	SMP	DDI	Stores	Wt. (lbs)	
<b>ASQ T</b> <b>TACTS</b> pod (Tactical Aircrew Combat Training System)	80 <sup>1</sup> or 81 <sup>1</sup>	9M	AN/ASQ T-11: P3A AN/ASQ T-13: P4	127/193 <sup>6</sup> 120/186 <sup>6</sup>	
	non-wingtip pods	9L	AN/ASQ T-16: Acft Inst Subsys, Internal <sup>3/4</sup> AN/ASQ T-17: P4A <sup>4</sup> AN/ASQ T-20: P4AX AN/ASQ T-25: P4AM <sup>5</sup> AN/ASQ T-27: P4B <sup>5</sup>	32 122/188 <sup>6</sup> 124/190 <sup>6</sup> 123/189 <sup>6</sup> 127/193 <sup>6</sup>	
	82 <sup>2</sup> wingtip pods	TST	AN/ASQ T-27(V)-1: P4BX <sup>5</sup> AN/ASQ T-29: P4AW <sup>4/5</sup> AN/ASQ T-31(V): AISI(K) <sup>3/4</sup>	127/193 <sup>6</sup> 128/178 <sup>7</sup> 31	
	<b>AWW-9B</b> Data Link pod	71	DLP <sup>8</sup> DL9 <sup>9</sup>	Phase II AWW-9B for Walleyes & SLAM; Walleye interface only	645
	<b>AWW-13</b> Advance Data Link pod	71 F0 <sup>10</sup>	DLP <sup>8</sup> DL13 <sup>9</sup>	Phase II AWW-13 for Walleye & SLAM; both Walleye and MIL-STD-1760 interfaces	707

<sup>1</sup> These codes are used for non-wingtip mounted pods with both the AYQ-9 and AYK-22 SMS.

<sup>2</sup> This code is used for wingtip pods with the AYK-22 SMS only; the AYQ-9 uses codes from sheet 1 of this figure.

<sup>3</sup> Mounted in gun bay (no drag). Includes weight of AS-4319 antenna.

<sup>4</sup> Carrier qualified.

<sup>5</sup> USAF pods with MIL-STD-1760 data bus interface.

<sup>6</sup> Weights without and with three external ballast weights (weights required for wingtip carriage).

<sup>7</sup> Weights without and with only fore and aft external ballast weights (weights required for wingtip carriage).

<sup>8</sup> F/A-18A/Bs.

<sup>9</sup> F/A-18C/Ds.

<sup>10</sup> Not available with F/A-18A/Bs.

Designation	SMP	DDI	Stores	Wt. (lbs)
<b>BDU-33</b> Practice bomb	06 <sup>1</sup>	76	BDU-33D/B: LD practice bomb carried on (I)MERs	25
<b>BDU-45/B</b> Inert Mk 82 w/side-mounted spotting charges	24	82B	MAU-93 CFA, NTP, M904 or blunt nose	502 <sup>2</sup>
	25	82P	MAU-93 CFA, NTP, TDD or ogive nose	496 <sup>2</sup>
	26	82BT	MAU-93 CFA, TP, M904 or blunt nose	511 <sup>2</sup>
	27	82PT	MAU-93 CFA, TP, TDD or ogive nose	505 <sup>2</sup>
	28	82X	Mk 15 Mod 6 Snakeye, NTP, LD/HD	547 <sup>2</sup>
	29	82XT	Mk 15 Mod 6A Snakeye, TP, LD/HD	556 <sup>2</sup>
	30 <sup>1</sup>	82YT	BSU-86 Retard NTP, pilot option LD/HD	547 <sup>2</sup>
	30	82YT	BSU-86 Retard, TP, pilot option LD/HD	556 <sup>2</sup>
	31 <sup>1</sup>	82SB	BSU-33 CFA, NTP, M904 or blunt nose	503 <sup>2</sup>
	32 <sup>1</sup>	82SP	BSU-33 CFA, NTP, TDD or ogive nose	497 <sup>2</sup>
	31	82SB	BSU-33 CFA, TP, M904 or blunt nose	512 <sup>2</sup>
	32	82SP	BSU-33 CFA, TP, TDD or ogive nose	506 <sup>2</sup>
<b>BDU-48</b> Practice bomb	08 98	48 48M	BDU-48/B: HD practice bomb carried on (I)MERs. 08=conv, 98=mine	10
<b>BDU-57</b>	33 <sup>3/1</sup>	82LG	LGTR I (PAVE Way II simulator)	89
Blank-Off Panel	00 <sup>4</sup>	blank	Used when no stores are carried on stations 4/6.	12

<sup>1</sup> Stores forced to use 'best available' store codes and ballistics intended for other stores.

<sup>2</sup> Weights include nose plug (blunt unless specified), warhead, fin, and 4 lbs tail fuze.

<sup>3</sup> Aircraft gross weight computation is unreliable.

<sup>4</sup> Code for AYK-22 SMS only; not applicable for AYQ-9 SMS.

Designation	SMP	DDI	Stores	Wt. (lbs)
<b>BLU-110A/B</b> 1,000 lb TP Bomb	18	83BT	Mk 83 CFA, M904 or blunt nose	995 <sup>2</sup>
	19	83PT	Mk 83 CFA, TDD or ogive nose	989 <sup>2</sup>
	86 <sup>1</sup>	40TF	MAU-91 Retard	1,056
<b>BLU-111A/B</b> 500 lb TP Bomb	22	83CT	BSU-85 Retard, pilot option LD/HD	1,031 <sup>2</sup>
	26	82BT	MAU-93 CFA, M904 or blunt nose	515 <sup>2</sup>
	27	82PT	MAU-93 CFA, TDD, or ogive nose	509 <sup>2</sup>
	29	82XT	Mk 15 Mod 6A Snakeye LD/HD	560 <sup>2</sup>
	30	82YT	BSU-86 Retard, pilot option LD/HD	560 <sup>2</sup>
	31	82SB	BSU-33 CFA, M904 or blunt nose	516 <sup>2</sup>
32	82SP	BSU-33 CFA, TDD or ogive nose	510 <sup>2</sup>	
<b>BRU-32/A</b>	n/a	n/a	Non-ZRF SUU-62/-63 ejector rack	76
<b>BRU-32A/A</b>	n/a	n/a	ZRF SUU-62/-63 ejector rack	76
<b>BRU-33/A VER</b>	n/a	n/a	Non-ZRF Vertical Ejector Rack	175
<b>BRU-33A/A CVER</b>	n/a	n/a	ZRF Canted Vertical Ejector Rack	200
<b>BRU-41/A IMER</b>	n/a	n/a	ZRF Improved Multiple Ejector Rack	240
<b>BRU-42/A ITER</b>	n/a	n/a	ZRF Improved Triple Ejector Rack	124

<sup>1</sup> Stores forced to use 'best available' store codes and ballistics intended for other stores.

<sup>2</sup> Weights include nose plug (blunt unless specified), warhead, fin, and 4 lbs tail fuze.



Designation	SMP	DDI	Stores	Wt. (lbs)
<b>CBU-78</b> TP Gator	05	GATR	CBU-78/B & CBU-78B/B: Mk 339	491
		GATR	CBU-78A/B: FMU-140	494
<b>CBU-99</b> TP Rockeye II	02	RET	CBU-99/B: Mk 339	506
		RET	CBU-99A/B: FMU-140	509
<b>CBU-100</b> NTP Rockeye II	03	RE	CBU-100/B: Mk 339	490
		RE	CBU-100A/B: FMU-140	493
<b>CNU-188</b> Baggage Pod	24	82B	CNU-188/A: Converted AERO 1D fuel tank; bobtail (no fins) configuration only	195 empty
	99 <sup>1</sup>	BAG		545 full
<b>FPU-6/A</b> External Fuel Tank	01	FUEL	315-gal elliptical, P/N suffix 1019 or 1021	2,448 JP5
<b>FPU-8/A</b> External Fuel Tank	01	FUEL	330-gal circular, P/N suffix 1005	2,530 JP5
	24	82B	For empty ferry on stations 2/8	290 empty
<b>GBU-10</b> (Mk 84) LGB	15	84LG	NTP GBU-10D/B & E/B	2,114 <sup>3</sup>
		84LG	TP GBU-10D/B & E/B	2,153 <sup>3</sup>
<b>GBU-12</b> (Mk 82) LGB	33	82LG	NTP GBU-12C/B & D/B	610 <sup>3</sup>
		82LG	TP GBU-12C/B & D/B	619 <sup>3</sup>
<b>GBU-16</b> (Mk 83) LGB	23	83LG	NTP GBU-16A/B & B/B	1,112 <sup>3</sup>
		83LG	TP GBU-16A/B & B/B	1,131 <sup>3</sup>
<b>GBU-24B/B</b> Low Level LGB	55 <sup>2</sup>	GB24	BLU-109A/B live or BLU-109A(D-1)/B inert TP warhead	2,396
	14 <sup>2</sup>	84T		
<b>GBU-31</b> JDAM	FO	J84 J109	Mk 84 variant BLU-109 variant	2046 2046
	CO	JDAM	Training variant	2046

<sup>1</sup> Store code 99 not valid with MC OFP 91C.

<sup>2</sup> With MC OFP 91C, store code 55 is not available; code 14 approximates weight and drag, but ballistics are unreliable.

<sup>3</sup> Weights reflects Mk 80 series warheads including a MXU-735 nose plug and a 4-lb tail fuze.

Designation	SMP	DDI	Stores	Wt. (lbs)
<b>LAU-7</b> Launch Rail for AIM-9 or TACTS Pod	n/a	n/a	LAU-7/A through 163782 (Lot XI) LAU-7B/A from 163985 (Lot XII)	90 <sup>1</sup> 90 <sup>1</sup> (2 = 180)
<b>LAU-10</b> 4 x 5.0-inch Zuni Rocket Pod	76 <sup>2/3</sup> 77 <sup>4/3</sup>	10S 10R	LAU-10C/A: NTP LAU-10D/A: TP Mk 71 Mod 0 or Mod 1 motors	107 <sup>5</sup> 136 <sup>5</sup>
<b>LAU-61</b> 19 x 2.75-inch Rocket Pod	72 <sup>2/6</sup> 73 <sup>4/6</sup>	61S 61R	LAU-61C/A, TP, Mk 66 motors only (nose fairing adds 5.7 pounds)	160 <sup>7</sup>
<b>LAU-68</b> 7 x 2.75-inch Rocket Pod	74 <sup>2/6</sup> 75 <sup>4/6</sup>	68S 68R	LAU-68D/A, TP, Mk 66 motors only (nose fairing adds 2.0 pounds)	78 <sup>7</sup>
<b>LAU-115/A</b> Launcher Adapter	n/a	n/a	Wing pylon adapter for two LAU-7s (w/AIM-9s)	52
<b>LAU-115A/A</b> Launcher Adapter	n/a	n/a	Wing pylon adapter for two LAU-7s (w/AIM-9s), or LAU-127s (w/AIM-9s/-120s)	59
<b>LAU-115C/A</b> Launcher Adapter	n/a	n/a	LAU-115A/A with jettison adapter for AIM-7 or two LAU-127s (w/AIM-9s/-120s)	133 max

<sup>1</sup> Weight of wingtip-mounted LAU-7s is included in basic aircraft gross weight.

<sup>2</sup> Code required to match "Singles" mode pod intervalometer selection.

<sup>3</sup> Ballistics assume a M414 fuze, Mk 63 warhead, and Mk 71 Mod 1 rocket motor.

<sup>4</sup> Code required to match "Ripple" mode pod intervalometer selection.

<sup>5</sup> Empty pods without fairings, see A1-F18AE-TAC-020 figure I-1-11 for rocket weights.

<sup>6</sup> Selection of motor type is made with the DDI's SMS display. Ballistics assume M151 with M427 fuze.

<sup>7</sup> Empty pods with tail fairings, see A1-F18AE-TAC-020 figure I-1-11 for rocket weights.

Designation	SMP	DDI	Stores	Wt. (lbs)
<b>LAU-116</b> Sta 4/6 AIM Ejector	n/a	n/a	LAU-116/A for AIM-7	65
			LAU-116A/A for AIM-7 or AIM-120	65
<b>LAU-117</b> AGM-65 Launcher	n/a	n/a	LAU-117A(V)-2/A wing pylon adapter for one AGM-65 Maverick	135
<b>LAU-118</b> AGM-88 Launcher	n/a	n/a	LAU-118(V)-1/A wing pylon adapter for one AGM-88 HARM	100
<b>LAU-127A/A</b> AIM Launcher	n/a	n/a	Pairs used with LAU-115 for AIM-9, AIM-120, or TACTS pod carriage	95 (2 = 191)
<b>LUU-2</b> Paraflare	28 <sup>1</sup>	82X	LUU-2A/B 1.6 Mcp for 5 minutes, <b>No CV ops.</b> LUU-2B/B 2.0 Mcp for 4 minutes, <b>CV ops OK.</b>	30
	29 <sup>1</sup>	82XT		30
	30 <sup>1</sup>	82YT		
<b>M61</b> Internal Cannon	n/a	GUN GUN	M61A1 (to BuNo 164724) M61A2 light cannon (from BuNo 164725) Ammunition (weight for 578 rounds) M55 & M220 TP/TP Tracer M56 & M242 HEI/HEI Tracer PGU-27B & PGU-30/B TP/TP Tracer PGU-28/B SAPHEI	loaded/shot 324/155 324/155 334/155 331/155
<b>Mk 20</b> Rockeye II	02	RET RET	Mk 20 Mod 11: Mk 339 fuze TP Mk 20 Mod 9: FMU-140 fuze, TP	506 509
	03	RE	Mk 20 Mod 12: Mk 339 fuze, NTP	490

<sup>1</sup> Use of the HD release option is required to close the aft solenoid and withdraw the arming lanyard. Aircraft gross weight computation will be unreliable. Use of SMP store code 28, 29, or 30 is optional, but selected code must be unique for aircraft load.

Designation	SMP	DDI	Stores	Wt. (lbs)
<b>Mk 36</b> Destructor	36 <sup>1</sup>	62TO	OA 48K <sup>2</sup> : Mk 15 Mod 6 Snakeye, NTP	552 <sup>3</sup>
	35 <sup>1/4</sup>	62XO	OA 51K <sup>2</sup> : Mk 16 paratail, NTP	536 <sup>3</sup>
	78	36	OA 54K <sup>2</sup> : BSU-86 retard, NTP	552 <sup>3</sup>
<b>Mk 40</b> Destructor	85	40F	OA 48K <sup>2</sup> : MAU-91 retard, NTP	1,056 <sup>3</sup>
	87	40C	OA 51K <sup>2</sup> : Mk 12 paratail, NTP	1,003 <sup>3</sup>
<b>Mk 52</b> NTP Bottom Mine	91	52	OA 05K <sup>2</sup> : with fairing	1,063
<b>Mk 55</b> NTP Bottom Mine	92	55	OA 04K <sup>2</sup> : with fairing	2,059
<b>Mk 56</b> NTP Moored Mine	93	56	OA 06K <sup>3</sup> : with fairing Mod 0, OA 12: with fairing	2,210
<b>Mk 58</b> MLM	07 <sup>5</sup>	106	Marine Location Marker: carried on bottom and outboard (I)MER stations	13
<b>Mk 60</b> CAPTOR NTP Moored Mine	34	60	OA 01K <sup>3</sup> & 01Q <sup>3</sup> Mod 1. OA 01	2,354

<sup>1</sup> Stores forced to use "best available" store codes and ballistics intended for other stores.

<sup>2</sup> The Operational Assembly (OA) suffixes 'K' (Laying) and 'Q' (Mk 5 Marine Mammal recovery System or MMS) indicate inert exercise and training (E&T) mines, which do not have Mod numbers.

<sup>3</sup> Weights reflect Mk 80 series warheads.

<sup>4</sup> Not available with MC OFP 91C.

<sup>5</sup> If using Mk 58s as part of a mixed (I)MER load, use the practice bombs SMP store code.

Designation	SMP	DDI	Stores	Wt. (lbs)
<b>Mk 62</b> Quickstrike Mine	36 <sup>1</sup>	62TO	OA 03K <sup>2</sup> : Mk 15 Mod 6 Snakeye, NTP	552 <sup>3</sup>
	36 <sup>1</sup>	62TO	Mod 0, OA 03: Mk 15 Mod 6A Snakeye, NTP	552 <sup>3</sup>
	36	62TO	Mod 0, OA 03: Mk 15 Mod 6A Snakeye, TP	561 <sup>3</sup>
	35 <sup>1/4</sup>	62XO	OA 06/06K <sup>2</sup> : Mk 16 paratail, NTP	536 <sup>3</sup>
	35 <sup>1/4</sup>	62XO	Mod 0, OA 06: Mk 16 paratail, NTP	536 <sup>3</sup>
	35 <sup>4</sup>	62XO	Mod 0, OA 06: Mk 16 paratail, TP	545 <sup>3</sup>
<b>Mk 63</b> Quickstrike Mine	78	36	OA 09K <sup>2</sup> : BSU-86 retard, NTP	552 <sup>3</sup>
	78	36	Mod 0, OA 09: BSU-86 retard, NTP	552 <sup>3</sup>
	79	36T	Mod 0, OA 09: BSU-86 retard, TP	561 <sup>3</sup>
	85	40F	OA 03K <sup>2</sup> : MAU-91 retard, NTP	1,056 <sup>3</sup>
	85	40F	Mod 0, OA 03: MAU-91 retard, NTP	1,056 <sup>3</sup>
	40	63TF	Mod 0, OA 03: MAU-91 retard, TP	1,075 <sup>3</sup>
<b>Mk 65</b> Quickstrike Mine	87	40C	OA 06K <sup>2</sup> : Mk 12 paratail, NTP	1,003 <sup>3</sup>
	87	40C	Mod 0, OA 06: Mk 12 paratail, NTP	1,003 <sup>3</sup>
	42	63TC	Mod 0, OA 06: Mk 12 paratail, TP	1,022 <sup>3</sup>
	47	65	OA 01K <sup>2</sup> with fairing, NTP Mod 0: Mk 57 TDD, with fairing, TP OA 01/02: Mk 131/132 batteries Mod 1: Mk 58 TDD, with fairing, TP OA 01/02: Mk 131/132 batteries	2,446 2,402  2,314

<sup>1</sup> Stores forced to use "best available" store codes and ballistics intended for other stores.

<sup>2</sup> Weights reflect Mk 80 series warheads.

<sup>3</sup> The Operational Assembly (OA) suffixes 'K' (Laying) and 'Q' (Mk 5 Marine Mammal recovery System or MMS) indicate inert exercise and training (E&T) mines, which do not have Mod numbers.

<sup>4</sup> Not available with MC OFP 91C.

Designation	SMP	DDI	Stores	Wt. (lbs)
<b>Mk 76</b> Practice Bomb	06	76	Mk 76 Mod 5: LD practice bomb carried on (I)MERS	25
<b>Mk 77</b> Fire Bomb	21	77	Mod 4: 71 gal of gelled AVGAS	520
	21	77	Mod 5: 43 lbs imbiber beads + 63 gal of jet fuel	520
<b>Mk 82</b> 500-lb Bomb (Mod 1: NTP Mod 2: TP)	24	82B	MAU-93 CFA, NTP, M904 or blunt nose	513 <sup>1</sup>
	25	82P	MAU-93 CFA, NTP, TDD or ogive nose	507 <sup>1</sup>
	26	82BT	MAU-93 CFA, TP, M904 or blunt nose	522 <sup>1</sup>
	27	82PT	MAU-93 CFA, TP, TDD or ogive nose	516 <sup>1</sup>
	28	82X	Mk 15 Mod 6 Snakeye, NTP, LD/HD	558 <sup>1</sup>
	29	82XT	Mk 15 Mod 6A Snakeye, TP, LD/HD	567 <sup>1</sup>
	30 <sup>2</sup>	82YT	BSU-86 retard NTP, pilot option LD/HD	558 <sup>1</sup>
	30	82YT	BSU-86 retard, TP, pilot option LD/HD	567 <sup>1</sup>
	31 <sup>2</sup>	82SB	BSU-33 CFA, NTP, M904 or blunt nose	514 <sup>1</sup>
	32 <sup>2</sup>	82SP	BSU-33 CFA, NTP, TDD or ogive nose	508 <sup>1</sup>
	31	82SB	BSU-33 CFA, TP, M904 or blunt nose	523 <sup>1</sup>
	32	82SP	BSU-33 CFA, TP TDD or ogive nose	517 <sup>1</sup>

<sup>1</sup> Weights include nose plug (blunt unless specified otherwise), warhead, fin, and a 4-lbs tail fuze.

<sup>2</sup> Stores forced to use 'best available' store codes and ballistics intended for other stores.

Designation	SMP	DDI	Stores	Wt. (lbs)
<b>Mk 83</b> 1,000-lb Bomb (Mod 4: NTP Mod 5: TP)	16	83B	Mk 83 CFA, NTP, M904 or blunt nose	986 <sup>1</sup>
	17	83P	Mk 83 CFA, NTP, TDD or ogive nose	980 <sup>1</sup>
	18	83BT	Mk 83 CFA, TP, M904 or blunt nose	1,005 <sup>1</sup>
	19	83PT	Mk 83 CFA, TP, TDD or ogive nose	999 <sup>1</sup>
	85 <sup>3</sup>	40F	MAU-91 retard, NTP, HD only	1,043
	86 <sup>3</sup>	40TF	MAU-91 retard, TP, HD only	1,062
	22 <sup>2</sup>	83CT	BSU-85 retard, NTP, pilot option LD/HD	1,022 <sup>1</sup>
	22	83CT	BSU-85 retard, TP, pilot option LD/HD	1,041 <sup>1</sup>
<b>Mk 84</b> 2,000-lb Bomb	13	84	Mk 84 Mods 4/7, NTP, CFA	1,992 <sup>1</sup>
	14	84T	Mk 84 Mods 3/5/6, TP, CFA	2,031 <sup>1</sup>
<b>Mk 106</b> Practice Bomb	07	106	Mk 106 Mod 5: HD practice bomb carried on (I)MERS	5
<b>SUU-62</b> Centerline pylon (w/BRU-32)	00 <sup>4</sup>	blank	SUU-62/A through 163782 (Lot XI)	130
			SUU-62/A from 163985 (Lot XII)	139
<b>SUU-63</b> Wing pylon (w/BRU-32)	00 <sup>4</sup>	blank	SUU-63/A F/A-18A/Bs	275
			SUU-63A/A F/A-18C/Ds to 163782 (Lot XI)	277
			SUU-63A/A w/WPD-5 from 163985 (Lot XII)	314
			SUU-63C/A F/A-18C/Ds fm 165207 (Lot XIX)	311
<b>TDU-32</b>	n/a	n/a	TDU-32/B Tow Banner (w/ cable)	277

<sup>1</sup> Weights include nose plug (blunt unless specified otherwise), warhead, fin, and a 4-lb tail fuze.

<sup>2</sup> Stores forced to use 'best available' store codes and ballistics intended for other stores.

<sup>3</sup> Fuze codes of '0' must be used with this mine store code. M904 fuzing requires deliberate fuze arming wire configuration and DDI fuze option selection. Mine dud cueing invalid for bombs.

<sup>4</sup> For OFP 91C and 10A; not required for later OFPs.

**NWP 3-22.5-FA18A/B/C/D PG (Rev. A)**

<b>CODE</b>	<b>NOSE FUZE</b>
Use 0	For Mines/Fire Bombs
0	No Fuze
1	M904-6
2	M904-10
3	Mk 43 (E)
4	Mk 43 (M)
5	Mk 339
6	Mechanical (other than M904, Mk 339, or FMU-140)
7	FMU140
8	M904-2
9	M904-4
B <sup>1</sup>	DSU-30/B

<sup>1</sup> Not available with F/A-18A/B.

<b>CODE</b>	<b>TAIL FUZE</b>
Use 0	For Mines/Fire Bombs
0	No Fuze
1	Mk 344
2	Mk 376
3	FMU139
4	(Spare)
5	Mk 346
6	Mechanical (other than Mk 346)
7	(Spare)
8	(Spare)
9	(Spare)



# AIR-TO-AIR WEAPONS

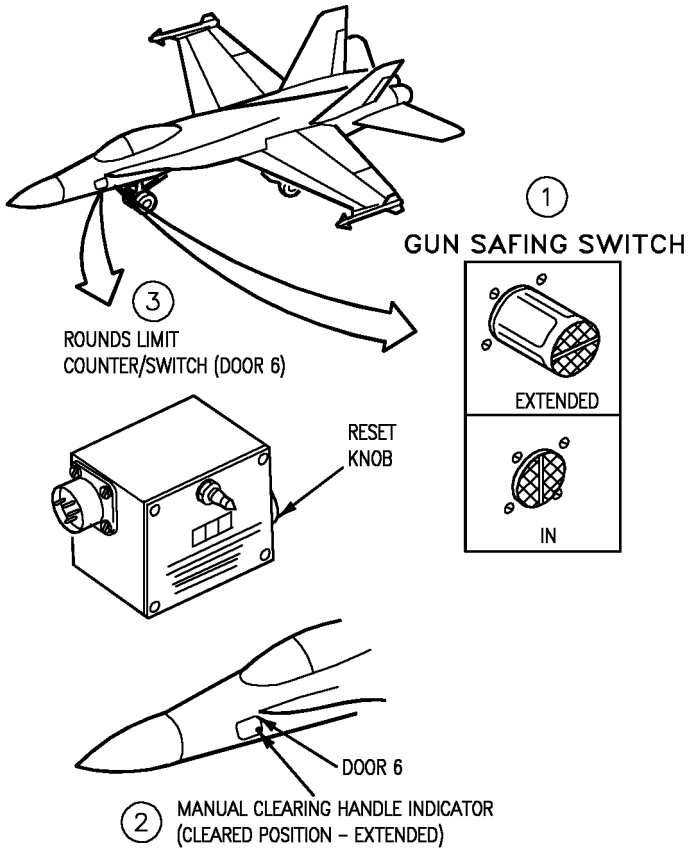
## M61A1 EXTERIOR INSPECTION

### Preflight Checks

1. Gun electrical safety switch extended
2. Manual clearing handle in cleared position
3. Rounds limiter set (if applicable)
4. Gun electrical cannon plug connected
5. Ensure access door 6 closed, manual clearing handle indicator extended.

# Exterior Inspection

## M61A1 GUN



1BAC-TAC-30-(8-1)13-CAT1

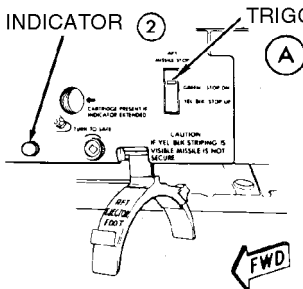
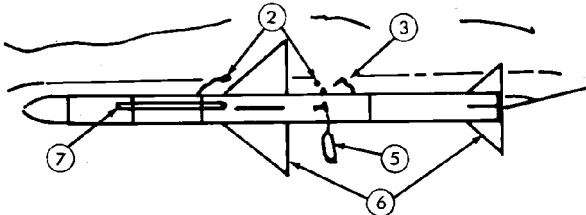
## **AIM-7M/H/P EXTERIOR INSPECTION**

### **PREFLIGHT CHECKS**

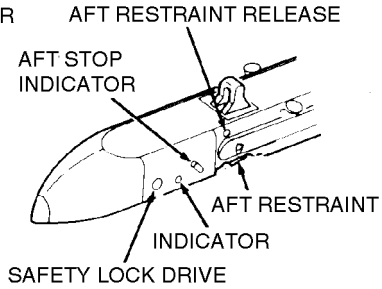
1. BRU-32 with LAU-115 installed:
  - a. Ground safety handle locked
  - b. Swaybraces seated
  - c. Cartridges installed; retainers/auxiliary cap tight
  - d. Launcher electrically connected
2. (Launchers) Safety release/lock drive in GREEN
3. (LAU-116) Aft missile stop indicator flush with launcher skin, trigger locked, and aft stop pin in full down position
4. Shear wafer mated to missile
5. Motor SAFE/ARM mechanism - SAFE
6. Wings and fins secure
7. Fuze antenna strips and waveguide secure and not damaged
8. (LAU-115) SMP code set

# Exterior Inspection

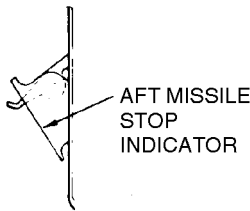
## AIM-7M/H/P MISSILE



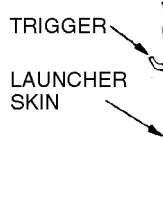
LAU-116



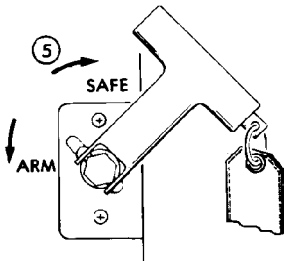
LAU-115



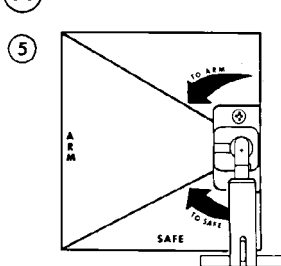
INDICATOR EXTENDED  
STOP PIN RETRACTED



INDICATOR FLUSH  
STOP PIN EXTENDED



BEFORE AWC 187



AFTER AWC 187

## **AIM-9M EXTERIOR INSPECTION**

### **Preflight Checks**

1. BRU-32/A with LAU-115/LAU-7 combination installed:
  - a. Ground safety handle locked
  - b. Swaybraces seated
  - c. Cartridges installed; retainers/auxiliary cap tight
  - d. Launcher electrically connected
2. Launcher detent wrench safety pin installed
3. Detent holddown pin installed
4. Motor safe/arm mechanism/selector - SAFE (if applicable)
5. Dome protector installed
6. Umbilical connected to launcher
7. Target detector cover installed

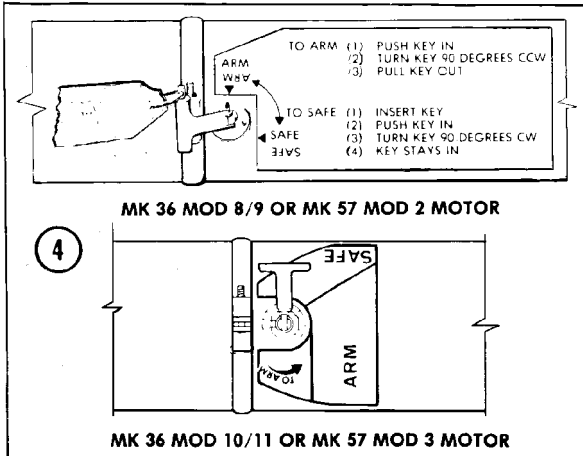
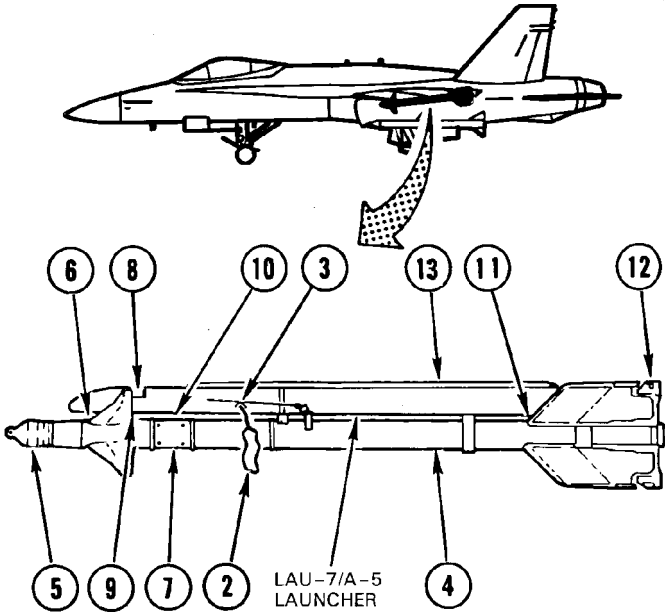
### **NOTE**

When training missile is loaded, launcher umbilical block hooks will not engage missile umbilical block pins.

8. Hooks connected to umbilical block (if applicable)
9. Fin retainers engaged
10. Visually inspect detent lugs engaged around forward hanger and that the missile is restrained in both directions
11. From fore and aft positions, rock firmly upwards to ensure both sets of snubbers are firmly engaged
12. Roller covers removed
13. Aft fairing secure
14. SMP code set

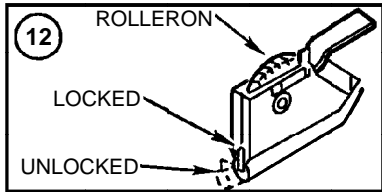
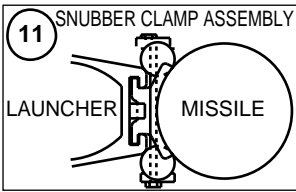
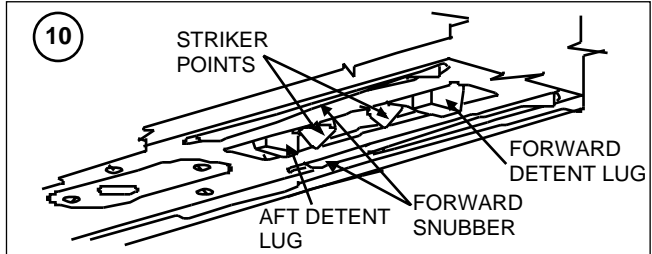
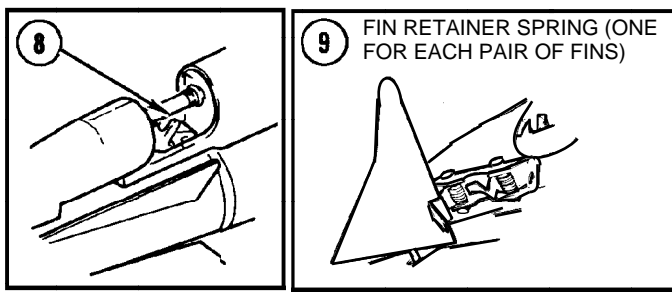
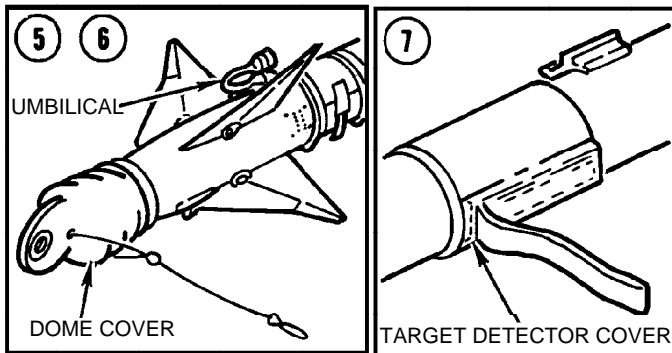
# Exterior Inspection

## AIM-9M MISSILE



# Exterior Inspection

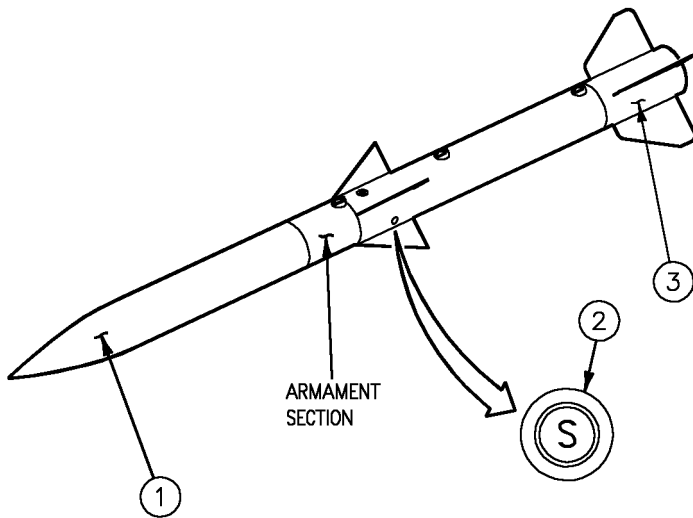
## AIM-9M MISSILE



## AIM-120 EXTERIOR INSPECTION

### PREFLIGHT CHECKS

1. Missile nose section - CLEAN, UNDAMAGED
2. AFD indicator - SAFE INDICATION
3. Wings and fins - CLEAN, UNDAMAGED



8AC-TAC-30-18-1113-CATI



# AIR-TO-GROUND WEAPONS

## WEAPON CODES

Refer to Stores Information for weapon codes.

## BOMBS NONRETARD/RETARD

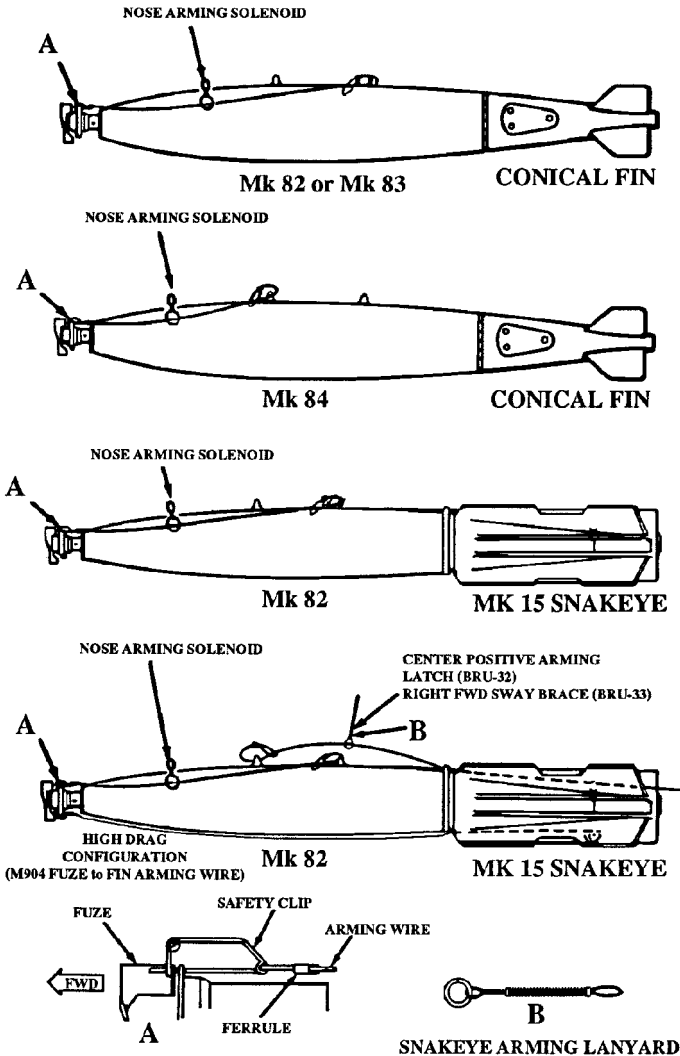
### Preflight Checks

1. Ground safety handle(s) locked
2. Swaybraces seated
3. Cartridges installed; retainers/auxiliary cap tight
4. (VER) Adapter harness electrically connected
5. Arming wire(s) installed
6. Fuze set; safety pin/wire removed (if applicable)
7. (BSU-85/86) Fin release lanyard stowed/  
connected
8. (Retard) Fin release band latch assembly safety  
pin removed
9. (Electric fuzing) Mk 122 safety switch lanyard  
attached to center positive arming latch
10. (FMU-139 Fuze) Preset functioning delay data  
marked on fin
11. SMP code set

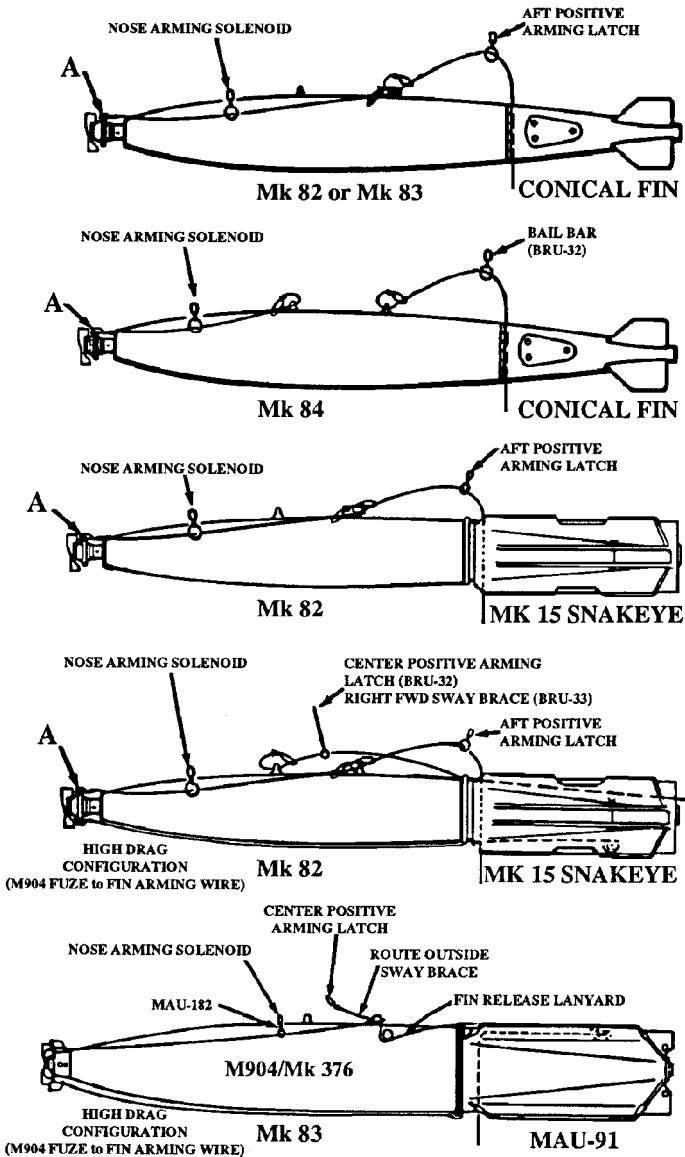
### NOTE

- The FMU-139 electric tail fuze does not require arming wire.
- (BSU-85/86) Pilot option low/high drag with ZRF arming units only.

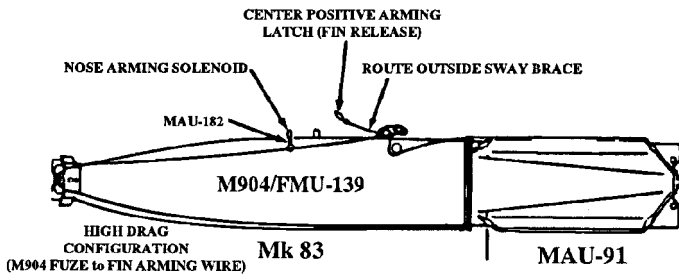
## Mk 80 Series Bombs



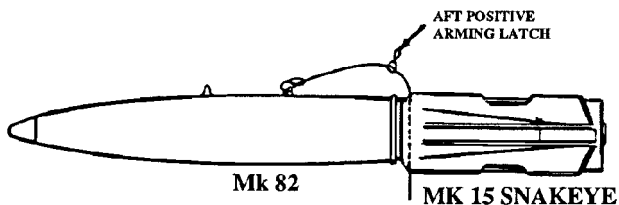
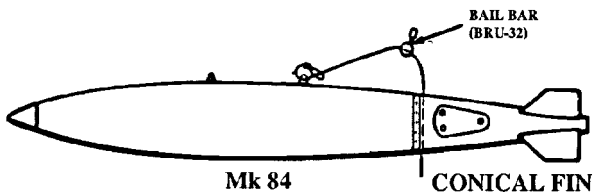
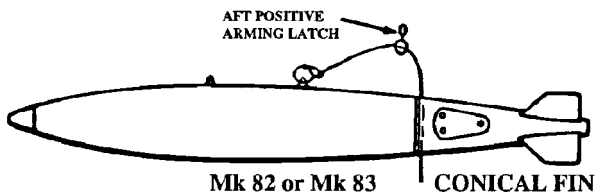
## MECHANICAL FUZE



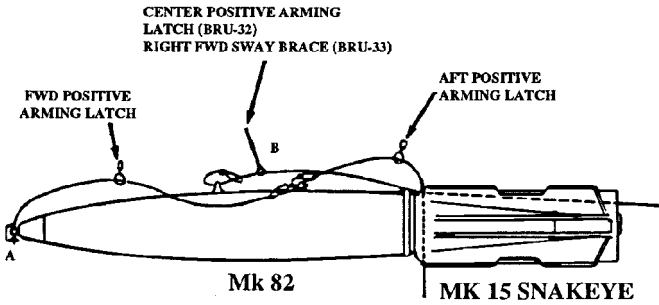
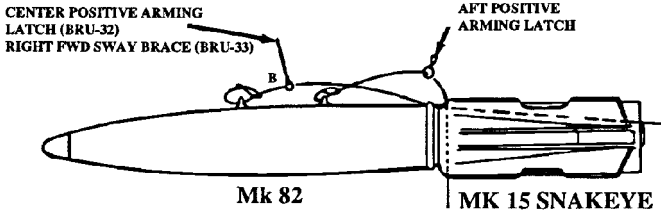
MECHANICAL/ELECTRICAL FUZING



**MECHANICAL/ELECTRICAL FUZING**

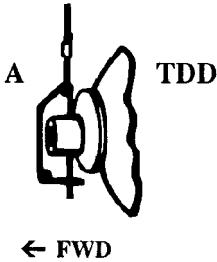


**ELECTRICAL FUZE**



NOTE:

MK 43 TDD MECHANICALLY ACTIVATED ONLY WHEN "VT" PLUS DELAY CAPABILITY IS DESIRED.

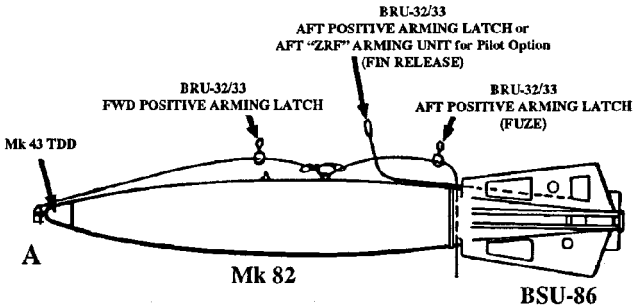
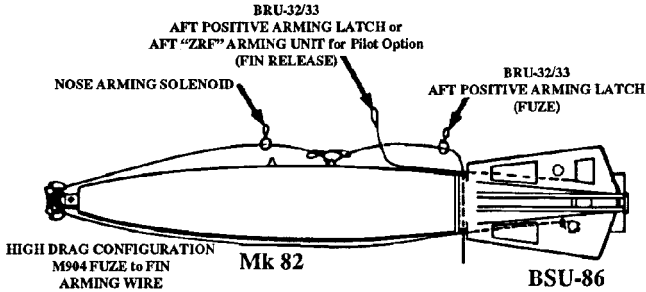
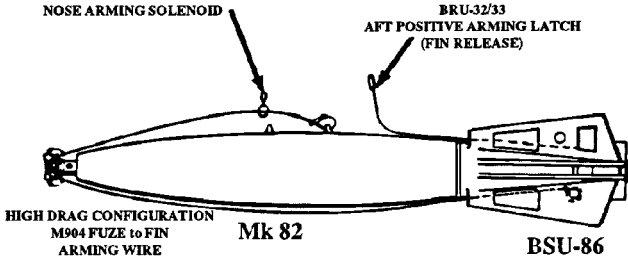


ELECTRICAL FUZE

# NWP 3-22.5-FA18A/B/C/D PG (Rev. A)

**NOTE: REGARDING NONRETAARD**

- CONNECT FIN RELEASE LANYARD TO FIN STOWAGE CLIP
- REMOVE FUZE TO FIN ARMING WIRE



**NOTE: REGARDING MK 43 TDD ELECTRICAL ACTIVATION**

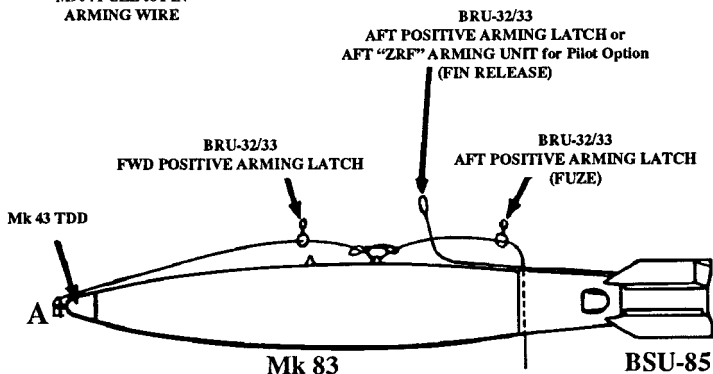
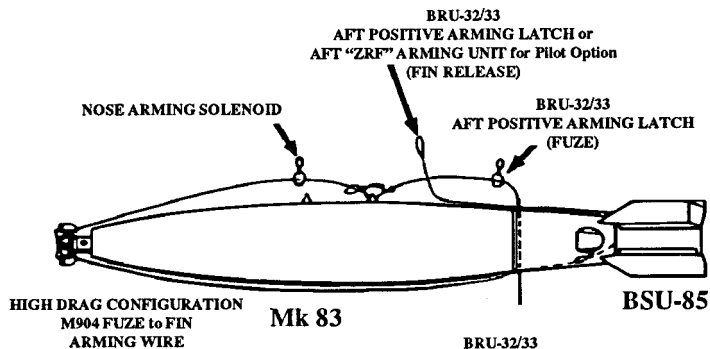
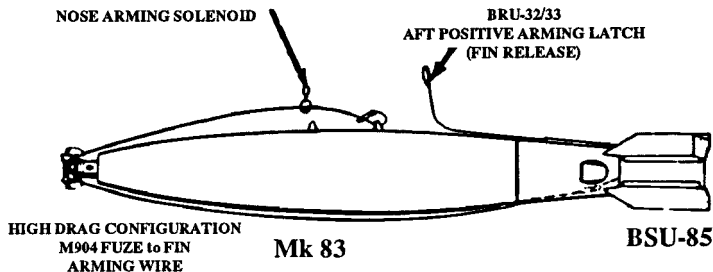
- DO NOT INSTALL ARMING WIRE
- SHIPPING SAFETY CLIP REMAINS INSTALLED
- WARNING TAG MUST BE REMOVED

## MECHANICAL/ELECTRICAL FUZING Mk 82 with BSU-86 FIN

# NWP 3-22.5-FA18A/B/C/D PG (Rev. A)

NOTE: REGARDING NONRETARD

- CONNECT FIN RELEASE LANYARD TO FIN STOWAGE CLIP
- REMOVE FUZE TO FIN ARMING WIRE



NOTE: REGARDING MK 43 TDD ELECTRICAL ACTIVATION

- DO NOT INSTALL ARMING WIRE
- SHIPPING SAFETY CLIP REMAINS INSTALLED
- WARNING TAG MUST BE REMOVED

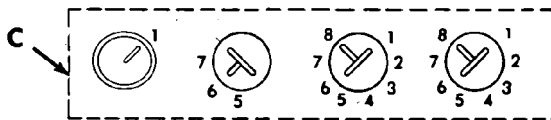
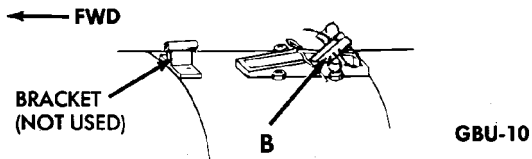
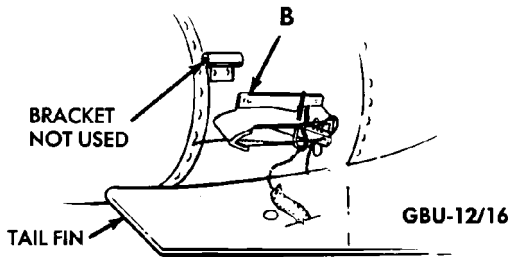
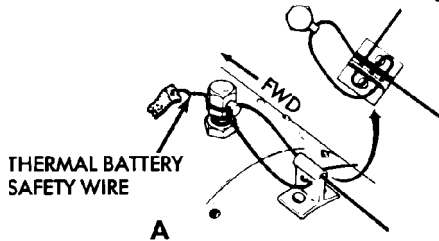
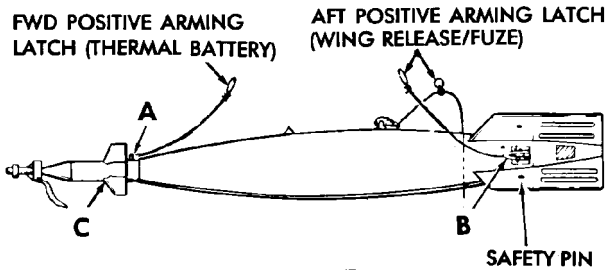
## MECHANICAL/ELECTRICAL FUZING Mk 83 with BSU-85 FIN

**GBU-12, -16, -10**

**Preflight Checks**

1. Ground safety handle locked
2. Swaybraces seated
3. Cartridges installed; retainers/auxiliary cap tight
4. Thermal battery firing pin assembly safety wire removed; arming cable properly installed.
5. Guidance fins secure and free to move
6. PRF code select switches set
7. Safety pins installed in latch release lever and wings; release lanyard properly installed.
8. Mk 122 safety switch lanyard attached to center positive arming latch.
9. (FMU-139 fuze) Present functioning delay data marked on fin.
10. SMP code set





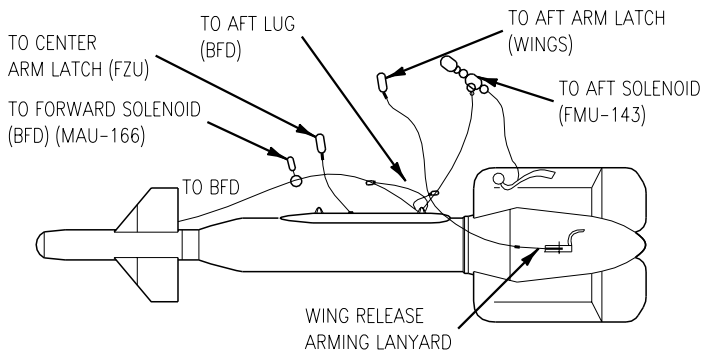
GBU-12/16/10

## GBU-24

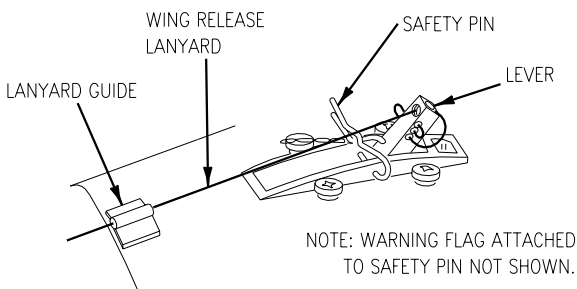
### Preflight Checks

1. Wing release safety pin installed.
2. AFG access cone secure.
3. Aft wing latch actuator bar and safety pin installed.
4. FMU-143E/B bomb fuze:
  - a. Check for proper lanyard routing (fuze/safe jettison lanyard attached to aft lug and clip, fuze lanyard attached to aft arming solenoid).
  - b. Check fuze arming time marked on AFG to validate that the proper fuze arming delay has been set.
  - c. Ensure all lanyards are free and are not caught between ejector feet and bomb body or wedged between bomb lugs and bomb rack hooks.
5. Check wing release lanyard laced through wing release lever (cut 3 to 6 inches from lever); check for proper routing to aft arm latch.
6. Check FZU-32B/B lanyard for proper routing to center arm latch.
7. Check BFD lanyard laced through BFD and lanyard guide; check proper routing to aft bomb lug and that lanyard is routed through the MAU-66 clip.
8. Check WGU-39/B inspection panels secure (2).
9. Check gyro level switch locked. If unlocked, reject for flight.
10. Check canards security (pull straight out).
11. Remove protective nose cover, ensure humidity indicator strip indicates satisfactory condition (green). If unsatisfactory (other than green), reject for flight.
12. WGU-39/B mission and code switches set.

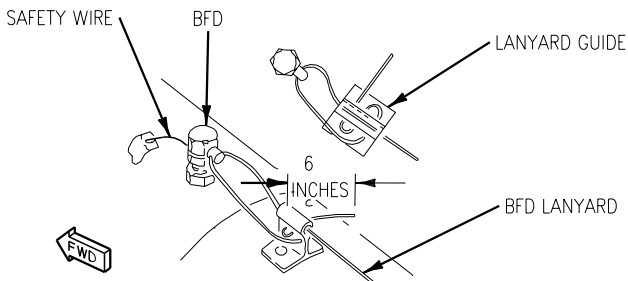
# GBU-24B/B



ARMING LANYARD CONFIGURATION



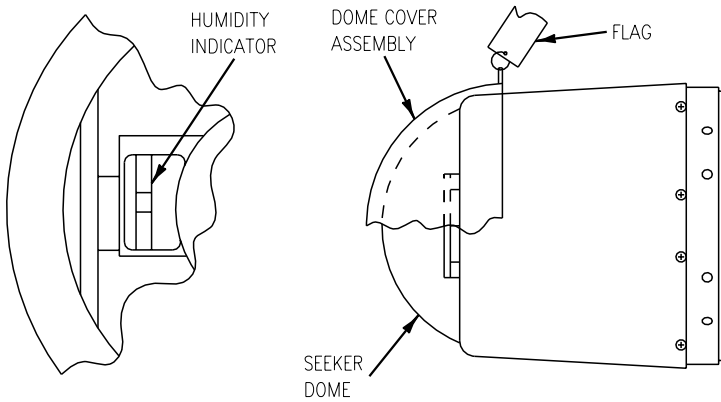
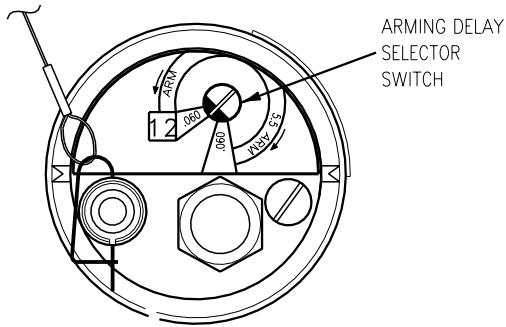
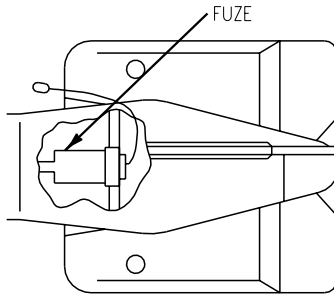
WING RELEASE ARMING LANYARD



BATTERY FIRING DEVICE LANYARD

18AC-TAC-30-(22-1)16-CAT1

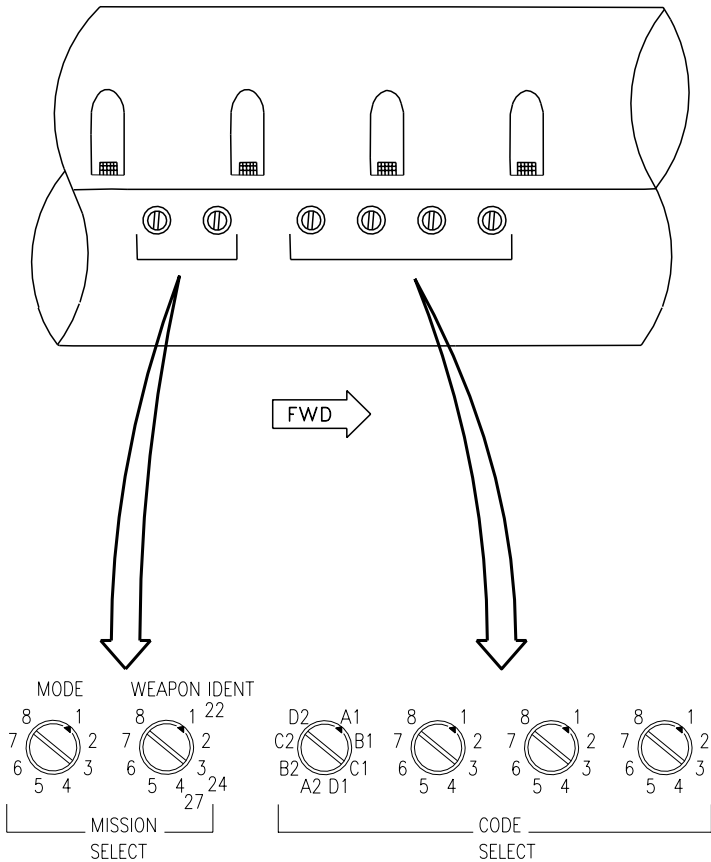
# GBU-24B/B



18AC-TAC-30-(22-2)16-CATI

# GBU-24B/B

WGU-39/B GUIDANCE CONTROL UNIT

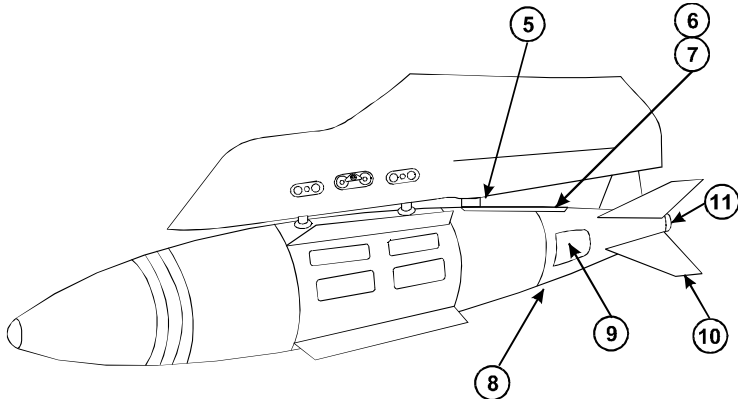


18AC-TAC-30-(22-3)16-CATI

## GBU-31 (JDAM)

### PREFLIGHT CHECKS

1. Ground safety handle - LOCKED
2. Nose plug or DSU-33 - INSTALLED
3. Strakes - UNDAMAGED
4. Swaybraces - SEATED
5. Cartridges - INSTALLED
  - a. Retainers/auxiliary cap tight
6. Arming wires - CHECK
  - a. JPF: No arming wires. MK-122 attached to center positive arming latch.
  - b. FMU-143/139: FZU-32 lanyard attached to center positive arming latch.  
Fuze arming lanyard through the aft lug to the arming unit.
7. 1760 connector - SECURE and UNDEAMAGED
8. 1760 umbilical tunnel - SECURE
9. GPS coax cover - SEALED
10. Tail assembly - SECURE
11. Fuze settings - VERIFY (secure access cover)
12. Fins - CHECK
  - a. X configuration
  - b. Nominal freeplay
  - c. No movement
13. GPS antenna - CLEAN and UNDEAMAGED
14. SMP code - SET



## **GBU-31 EMPLOYMENT**

### **POSTSTART CHECKS**

1. MU ID - VERIFY
2. Mission data download - VERIFY
3. HOLD ALL or HOLD MU - SELECT
4. JDAM BIT - PERFORM
5. S/W - SELECT
  - a. OFB166 (J-84) or OFC166 (J-109) - VERIFY
6. GPS time - VERIFY GOOD
7. Two-digit HERR/VERR - VERIFY
8. INS control knob - IFA
9. A/G master mode - SELECT
10. Fuzing - SET
11. J-84 or J-109 - SELECT
12. PP or TOO - SELECT
13. REL TYPE - SELECT
  - a. MAN or AUTO LOFT - SELECT
14. QTY - SELECT
  - a. Box desired stations for quantity release
  - b. RTN - SELECT (use STEP to move between weapons)
15. NO GPS KEYS and NO GPS DATA cues removed - VERIFY
16. MSN - SELECT
  - a. Mission data - VERIFY
  - b. JPF settings - VERIFY

- c. Desired mission - SELECTED

## NOTE

- As long as JDAM is not deselected, background power is applied to all JDAM weapons. This aids in fault detection and avoids the 2:30 wait by the GPS warmup timer. JDAM does not have to be deselected for catapult launch.
- Once QUANTITY RELEASE is selected, the STEP option will only step between weapons in the selected quantity.
- When editing a mission, once a terminal heading is defined, there is no means of clearing the heading to re-enter heading undefined mode.

## ENROUTE CHECKS

1. A/G master mode - SELECT
2. Priority station(s) READY - VERIFY
3. EFUZE ON (JPF) or MFUZE TAIL (FMU-139/143) - VERIFY
4. ALIGN QUAL 01 GOOD all stations - CHECK
5. Maneuver for transfer alignment - AS REQUIRED
6. MSN - SELECT (to verify mission, if desired)

## NOTE

Troubleshooting involving deselecting/reselecting JDAM within 3 minutes of intended weapon release can lead to mission failure due to GPS warmup countdown timer operation (2 min 30 sec delay).

## JDAM PREPLANNED DELIVERY

1. A/G master mode - SELECT
2. ALN QUAL 01 GOOD - VERIFY
3. Priority station(s) READY - VERIFY
4. Master arm - ARM



## **NWP 3-22.5-FA18A/B/C/D PG (Rev. A)**

5. J-84 or J-109 not Xed on HUD - VERIFY
6. Weapon release button - PRESS

### **JDAM TOO DELIVERY**

#### **POSTLAUNCH CHECKS**

1. Master arm switch - SAFE
2. Safe escape from flight clearance - COMPLY

#### **If JDAM remains on aircraft -**

3. A/G or NAV master mode - SELECT
4. J-84 or J-109 - SELECT
5. ERASE - SELECT
6. ACPT - SELECT

#### **POSTFLIGHT CHECKS**

1. No "C" MSP codes remain - VERIFY

## **GBU-31 SIMULATED ATTACK**

### **PREFLIGHT CHECKS**

1. For each empty station:
  - a. Fuze code (optional): 08 JPF
  - b. Store code: C0 JDAM
2. On BRU-32 ensure hooks - CLOSED  
AOC is not enabled in JDAM training mode.

### **POST-START CHECKS**

1. SMS inventories JDAM station - SELECTED
2. JDAM indicates ULK-TEST-STBY-XFER
3. A/G master mode - SELECTED
4. SIM - SELECTED
5. JDAM - SELECTED

### **If no bulk data on MU -**

1. Mission data - ENTER
2. JDAM checklist - FOLLOW

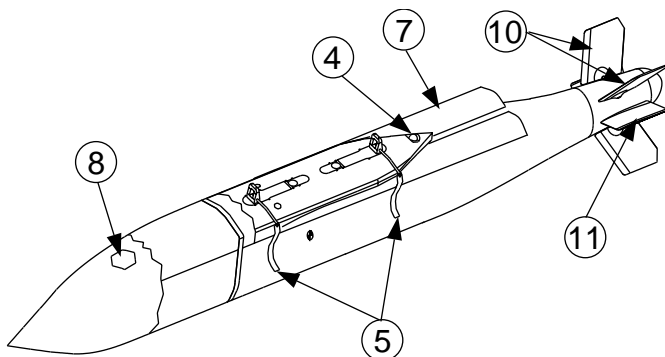
### **NOTE**

- JDAM ERASE option is not enabled in training mode.
- Transfer alignment does not occur in training mode. JDAM will always indicate ALN QUAL 01 GOOD.
- Weapon step and data freeze operate normal in training mode.
- If only one training JDAM station selected, deselecting/reselecting JDAM may be required after pickle.

## AGM-154A (JSOW)

### PREFLIGHT CHECKS

1. Ground safety handle - LOCKED
2. Swaybraces - SEATED
3. Cartridges - INSTALLED
  - a. Retainers/auxiliary cap - TIGHT
4. Umbilical and umbilical bail - CONNECTED
5. Suspension lug retaining pins (2) - REMOVED
6. Weapon integrity - CHECK
  - a. No chips, cracks, or dents on any surface
7. Wings - CHECK
  - a. No chips, cracks, or defects
8. GPS antenna - NO DAMAGE
9. (Telemetry rounds) TIK antennas - NOT DAMAGED OR LOOSE
10. Fins - ALIGNED and LOCKED
  - a. Parallel to missile and not damaged, defective, or loose
11. Horizontal stabilizers - CHECK
  - a. Not damaged, loose, or misaligned
12. SMP code - SET (F0)
13. MU - INSTALL



## **AGM-154A EMPLOYMENT**

### **POSTSTART CHECKS**

1. MUMI - CHECK
  - a. Good download (CDATA advisory)
2. Accurate ZULU date and time entered - CONFIRM
3. BIT/stores/station - CHECK
  - a. If WFAIL or WDEGD, perform IBIT
4. A/G master mode - SELECT
5. Weapon - SELECT
  - a. JSA or TJSA boxed
6. JSOW display - SELECT
  - a. Select desired mode (PP, SL, T001, T002)
  - b. Select/edit desired MISSION for each weapon
  - c. Approximately 2 minutes after countdown time removed from JSOW/stores displays, confirm at least 1 SV ACQD. Check status of all loaded JSOW
    - (1) If no SVs ACQD, perform GPS troubleshooting procedures
  - d. HRM OVRD - As desired (if applicable)
7. A/G master mode - DESELECT

### **EN ROUTE CHECKS**

1. A/G master mode - SELECT
2. Weapon - SELECT
  - a. JSA or TJSA boxed
3. BIT/stores/station - CHECK
  - a. If WFAIL or WDEGD, perform IBIT
4. JSOW display - SELECT
  - a. Check JSOW display of all loaded weapons
  - b. Confirm desired mission selected for each weapon
  - c. ALN QUAL - 01 GOOD
    - (1) If ALN QUAL not 01 GOOD, perform aircraft maneuvers to improve QUAL
  - d. SV ACQD - 4 or more (if less than 4, JSOW performance may be degraded)

**NOTE**

Deselecting JSOW on the stores display removes power from all loaded weapons, requiring a repeat of the EN ROUTE Procedures.

**LAUNCH CHECKS**

1. A/G master mode - SELECT
2. TOO mission - DESIGNATE TARGET
3. Master arm switch - ARM
4. JSOW - CHECK RDY

**In Range/In Zone -**

5. Weapon release button - PRESS

**NOTE**

It takes up to 2 seconds from weapon release button actuation to weapon separation from the aircraft.

**AFTER LANDING CHECKS**

1. Ensure aircraft and missile data is erased.
  - a. If HOLD ALL is not boxed on MUMI page, the aircraft automatically erases.
  - b. If HOLD ALL is boxed, data must be manually erased.
  - c. To erase missile data, box JSOW ERASE on stores display. ERASE appears beneath each station carrying JSOW.

**TROUBLESHOOTING PROCEDURES**

1. If no GPS data or no GPS crypto keys are displayed on JSOW display or any other OCS anomalies are observed, rebox OCS on MUMI page. If OCS download unsuccessful, perform IBIT on weapon and then reattempt OCS download.

2. If JSOW indicates WDEGD or WFAIL, perform IBIT of weapon.
3. ALN QUAL must be better than 10 to acquire SVs. If ALN QUAL still does not decrease, deselect/reselect JSOW on stores page (deselect removes all power from weapon and reselect reinitializes weapon).
4. If JSOW is unable to acquire SVs and/or indicates a JAMMED status, perform the following:
  - a. Ensure JSOW GPS antenna is not obstructed. If aircraft GPS is receiving SVs, JSOW should be receiving SVs.
  - b. Ensure aircraft INS is aligning properly with position accuracy within 5 nm horizontal and 10K feet vertical. Aircraft INS should be on and aligned prior to selecting JSOW.
  - c. Ensure ZULU time is entered within 10 minutes of actual time and correct date is entered. If date and time are reentered, JSOW IBIT must be performed for weapon to accept new data. It may take up to 3 minutes for JSOW to acquire SVs following IBIT.
  - d. If still no SVs acquired, deselect/reselect JSOW on stores page.
  - e. If still no SVs acquired, GPS crypto keys or almanac data may be corrupted, requiring a new MU download from TAMPS.

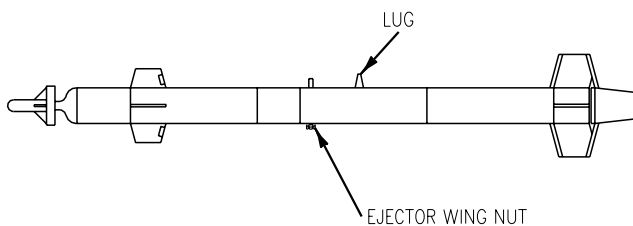
## LGTR

### Preflight Checks

1. Ensure LGTR unique practice bomb adapter brackets are attached to forward and aft swaybraces and the practice bomb restricter is attached to the gun piston assembly.
2. Check that the LGTR is securely attached to the MER/IMER or TER/ITER; canards must be free moving and undamaged.
3. Ensure the seeker dome cover is removed and the seeker dome is clean and undamaged.
4. Check that the laser code select switch is correctly set.
5. Ensure the ejector wing nut is removed and the ejector seats against the restricter.
6. Ensure that the signal marker is installed and the aft boattail is secure.



If the LGTR is released with the wing nut installed (i.e., a non-ejected release) weapon to aircraft impact is likely.



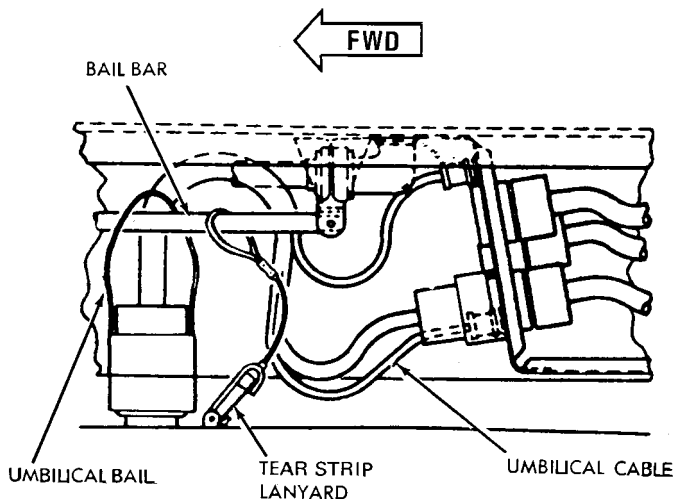
LASER GUIDED TRAINING ROUND  
(LGTR)

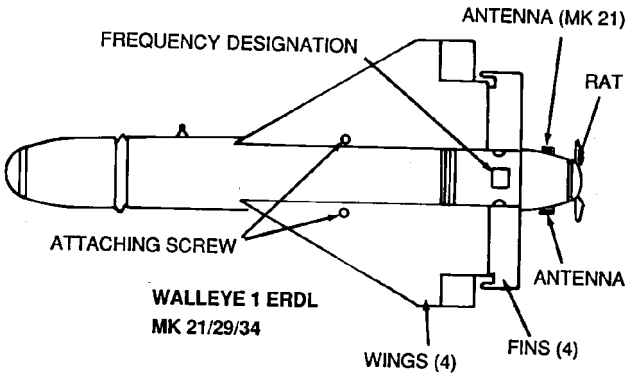
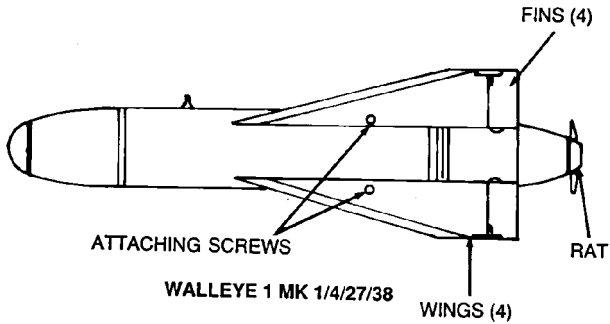


## WALLEYE I/I ER/DL AND WALLEYE II/II ER/DL PREFLIGHT CHECKS

1. Ground safety handle locked
2. Swaybraces seated
3. Cartridges installed; retainers/auxiliary cap tight
4. Umbilical, umbilical bail, and tear strip lanyard connected
5. RAT blades and antenna NOT damaged
6. Wings secure; attaching screws flush with wing skin
7. Fins installed, secure and rotate freely
8. (If applicable) Dome cover installed
9. Frequency code as desired and recorded
10. SMP code set

### *Walleye Pylon Interface*





**NOTE: WALLEYE II NON  
DATA LINK/ERDL  
SIMILAR IN APPEARANCE**

## WALLEYE I/II EMPLOYMENT

### POSTSTART CHECKS

1. Master arm switch - SAFE
2. A/G master mode - SELECT
3. Weapon - SELECT
  - a. WE boxed on stores display
4. Fuzing - BRIEFED OPTION and BIT PAGE GO
5. Weapon video - ADJUST
6. DSM-77B test - COMPLETED
7. Weapon - DESELECT
  - a. WE unboxed

### EN ROUTE CHECK

1. Boresight check - COMPLETED  
Azimuth error \_\_\_\_\_ mils L/R

### TARGET AREA CHECKS

1. A/G master mode - SELECT
2. Weapon - SELECT
  - a. WE boxed
3. Fuzing - BRIEFED OPTION and BIT PAGE GO
4. HUD reticle - ON TARGET
5. Weapon video target gate - ON TARGET
6. Cage/uncage button - UNCAGE
7. Master arm switch - ARM
8. Weapon release button - PRESS (followed by an evasive maneuver)

**WALLEYE I/II ER/DL EMPLOYMENT  
(SINGLE AIRCRAFT OPERATION)**

**POSTSTART CHECKS**

1. Master arm switch - SAFE
2. A/G master mode - SELECT
3. Weapon - SELECT
  - a. WEDL boxed
4. Fuzing - BRIEFED OPTION and BIT PAGE GO
5. DSM-77B test - COMPLETED
6. Data link pod and pod video - SELECT
  - a. DL9, DL13 or DLP as applicable and PODVID boxed
7. Weapon frequency - SELECT CHANNEL (Prebriefed or Manual)
8. RF option - ON
  - a. VTR displayed
9. Cage/uncage button - UNCAGE
  - a. Target gate moves when uncaged
10. TDC - PRESS and HOLD WHILE SLEWING IN ALL DIRECTIONS
  - a. MAP displayed at 1/2 size
11. Cage/uncage button - CAGE
12. RF option - OFF
  - a. VTR disappears

**NOTE**

To prevent VTR tape jamming, wait 30 seconds before deselecting A/G master mode.

13. A/G master mode - DESELECT

**TARGET AREA CHECKS**

1. A/G master mode - SELECT
2. Weapon - SELECT
  - a. WEDL boxed
3. Fuzing - BRIEFED OPTION and BIT PAGE GO
4. Data link pod and pod video - SELECT

- a. DL9, DL13, DLP, or WEPD as applicable and  
PODVID boxed
5. Weapon frequency - SELECT CHANNEL  
(prebriefed or manual)
6. HUD reticle - ON TARGET
7. Weapon video target gate - ON TARGET
8. Cage/uncage button - UNCAGE
  - a. Weapon locks on target
  - b. If weapon does not lock on target
    - (1) TDC - PRESS and HOLD, slewing target  
gate back to target
    - (2) TDC - RELEASE  
(repeat steps (1) and (2) until lockon)
9. Master arm switch - ARM
10. Weapon release button - PRESS (followed by an  
evasive maneuver)
11. Aft antenna - SELECT (if required)
  - a. A ANT boxed
12. Target lockon - MONITOR/UPDATE

## **WALLEYE I/II ER/DL EMPLOYMENT (DUAL AIRCRAFT OPERATION)**

### **POSTSTART CHECKS**

1. Master arm switch - SAFE
2. A/G master mode - SELECT
3. (weapon aircraft) Weapon - SELECT
  - a. WE DL boxed
4. (pod aircraft) Data link pod - SELECT
  - a. DL9, DL13, DLP, or WEPD as applicable
5. (pod aircraft) Frequency - SELECT CHANNEL  
(prebriefed or manual)
6. (pod aircraft) RF option - ON
  - a. VTR displayed
7. Video display - ADJUSTED
8. (weapon aircraft) DSM-77B and DSM-139  
tests - COMPLETED
9. (weapon aircraft) Weapon station - DESELECT  
and RESELECT
  - a. PSI disappears
10. Data link marriage - CHECK

Weapon aircraft performs data link check in conjunction with pod aircraft as follows:

- a. (pod aircraft) RF option - ON
  - b. (weapon aircraft) cage/uncage button - UNCAGE
  - c. (pod aircraft) TDC - PRESS  
Check that crosshairs can be locked on new target and that MAP reduces in size
  - d. (pod aircraft) PSI commands - CHECK
  - e. (weapon aircraft) Weapon station - DESELECTED and RESELECT  
(1) PSI removed
11. (Pod aircraft) RF option - OFF
    - a. VTR disappears

## NOTE

To prevent VTR tape jamming, wait 30 seconds before deselecting A/G master mode.

12. (weapon aircraft) Fuzing - PREBRIEFED OPTION and BIT PAGE GO
13. A/G master mode - DESELECT

## EN ROUTE CHECK

1. (weapon aircraft) Boresight check - COMPLETED

## TARGET AREA CHECKS

1. A/G master mode - SELECT
2. (weapon aircraft) Weapon - SELECT
  - a. WE DL boxed
3. (pod aircraft) Data link pod - SELECT
  - a. DL9, DL13, DLP, or WEPD as applicable boxed
  - b. Ensure correct channel selected
4. (weapon aircraft) Fuzing - BRIEFED OPTION and BIT PAGE GO
5. (pod aircraft) Forward or aft antenna - AS REQUIRED
6. (pod aircraft) RF option - ON
  - a. VTR appears

## **NWP 3-22.5-FA18A/B/C/D PG (Rev. A)**

7. (pod aircraft) Sensor control switch (PSI) - AS REQUIRED (prebriefed)
8. (weapon aircraft) HUD reticle - ON TARGET
9. (weapon aircraft) Video target gate - ON TARGET
10. (weapon aircraft) Cage/uncage button - UNCAGE
  - a. Weapon locks on target, go to step 11
  - b. Weapon does not lock on target
    - (1) Cage weapon seeker and repeat steps 8 thru 10
11. (pod aircraft) PSI - AS REQUIRED (prebriefed)
12. (weapon aircraft) Master arm switch - ARM
13. (weapon aircraft) Weapon release button - PRESS (followed by an evasive maneuver)
14. (pod aircraft) Weapon lockon - MONITOR/UPDATE

## **WALLEYE I SIMULATED ATTACK**

1. A/G master mode - SELECT
2. Weapon - SELECT
3. Master arm switch - SAFE
4. SIM option - SELECT
5. Fuzing - BRIEFED OPTION and BIT PAGE  
GO
6. HUD reticle - ON TARGET
7. Weapon video target gate - ON TARGET
8. Cage/uncage button - UNCAGE
9. Master arm switch - simulate ARM (do not ARM unless required/desired for chaff/flare utilization)

### **When weapon release conditions are satisfied -**

10. Weapon release button - PRESS (followed by an evasive maneuver)

## **AFTER SIMULATED ATTACK**

### **NOTE**

If master arm switch - ARM is required (chaff/flare) or is inadvertently selected, ensure master arm switch - SAFE is selected following simulated attack and prior to deselecting SIM.

1. SIM option - DESELECT

## **WALLEYE I ER/DL SIMULATED ATTACK (SINGLE AIRCRAFT OPERATION)**

1. A/G master mode - SELECT
2. Weapon - SELECT
  - a. WE DL
3. Master arm - SAFE
4. SIM option - SELECT
5. Fuzing - BRIEFED OPTION and BIT PAGE  
GO



6. Data link pod and pod video - SELECT
  - a. PODVID DLP, DL9, DL13, or WEPD as applicable
7. Weapon frequency - SELECT CHANNEL (Prebriefed or Manual)
8. HUD reticle - ON TARGET
9. Weapon video target gate - ON TARGET
10. Cage/uncage button - UNCAGE
  - a. Weapon locks on target
  - b. If weapon does not lock on target
    - (1) TDC - PRESS and HOLD, slewing target gate back to target
    - (2) TDC - RELEASERepeat steps (1) and (2) until lockon
11. Master arm switch - simulate ARM (do not ARM unless required/desired for chaff/flare utilization)

**When weapon release conditions are satisfied -**

12. Weapon release button - PRESS (followed by an evasive maneuver)
13. Aft antenna - SELECT (if required)
14. Target lockon - MONITOR/UPDATE

**AFTER SIMULATED ATTACK**

**NOTE**

If master arm switch - ARM is required (chaff/flare) or is inadvertently selected, ensure master arm switch - SAFE is selected following simulated attack and prior to deselecting SIM.

1. SIM option - DESELECT

**WALLEYE I ER/DL SIMULATED ATTACK  
(DUAL AIRCRAFT OPERATION)**

1. A/G master mode - SELECT
2. (weapon aircraft) Weapon - SELECT
  - a. WEDL boxed
3. (weapon aircraft) Master arm switch - SAFE
4. (weapon aircraft) SIM option - SELECT
5. (pod aircraft) Data link pod - SELECT
  - a. DLP, DL9, DL13, or WEPD as applicable
  - b. Ensure correct channel selected
6. (weapon aircraft) Fuzing - BRIEFED OPTION and BIT PAGE GO
7. (pod aircraft) Forward or aft antenna - AS REQUIRED
8. (pod aircraft) RF option - ON
  - a. VTR appears

**When ready for weapon lockon -**

9. (pod aircraft) Sensor control switch (PSI) - AS REQUIRED (prebriefed)
10. (weapon aircraft) HUD reticle - ON TARGET
11. (weapon aircraft) Weapon video target gate - ON TARGET
12. (weapon aircraft) Cage/uncage button - UNCAGE
  - a. Weapon locks on target, go to step 13
  - b. Weapon does not lock on target
    - (1) Cage weapon seeker and repeat steps 10 thru 12
13. (pod aircraft) PSI - AS REQUIRED (prebriefed)
14. (weapon aircraft) Master arm switch - simulate ARM (do not ARM unless required/desired for chaff/flare utilization)

**When ready for weapon release -**

15. (weapon aircraft) Weapon release button - PRESS (followed by an evasive maneuver)
16. (pod aircraft) Weapon lockon - MONITOR/UPDATE

**AFTER SIMULATED ATTACK**

**NOTE**

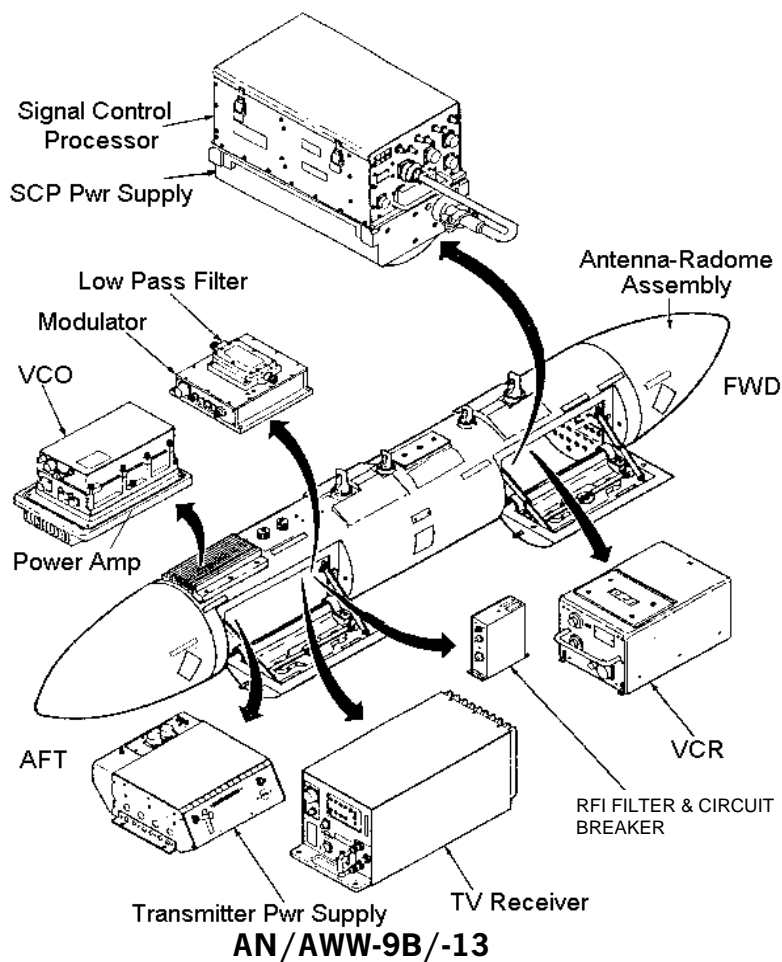
If master arm switch - ARM is required (chaff/flare) or is inadvertently selected, ensure master arm switch - SAFE is selected following simulated attack and prior to deselecting SIM.

1. SIM option - DESELECT

**AN/AWW-9B/-13 DATA LINK POD  
(Control-Monitor Set)**

**PREFLIGHT CHECKS**

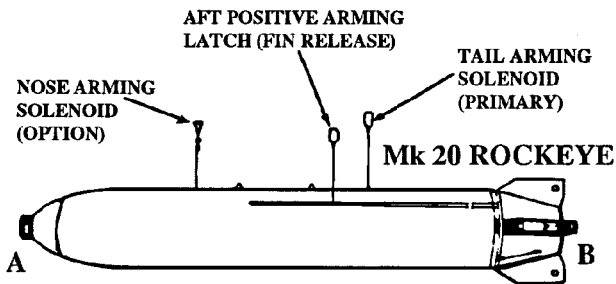
1. Ground safety handle in locked position
2. Sway braces seated
3. Cartridges installed/auxiliary cartridge cap tight
4. Umbilical cable and bail connected
5. Antenna radomes NOT damaged
6. Video tape installed, if desired (fwd access door)
7. (AN/AWW-9) Frequency code switch set as desired (aft access door)
8. (AN/AWW-13) BIT/Channel select set to 009
9. Pod power switch (CB1) - ON (aft access door)
10. Aircraft mode switch set - 2A/C
11. Pod access doors secured
12. SMP code set

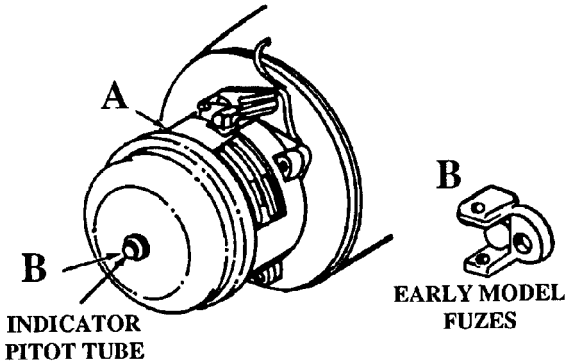
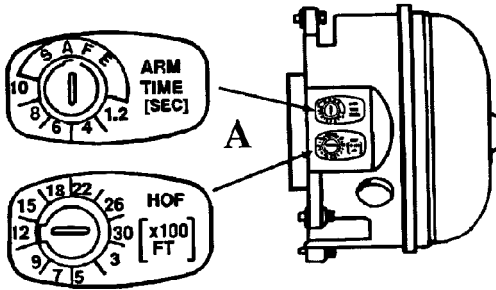


## CLUSTER BOMB UNITS (CBU) MK 20 ROCKEYE/CBU-78 GATOR

### Preflight Checks

1. Ground safety handle(s) locked
2. Swaybraces seated
3. Cartridges installed; retainers/auxiliary cap tight
4. (VER) Adapter harness electrically connected
5. Fuze:
  - a. Cover removed
  - b. Fuze functioning time set
  - c. Safety pin removed
  - d. Impeller band assembly retaining lanyard installed
6. Arming and fin release wire extractors installed
7. Fin:
  - a. Release band retaining lanyard installed
  - b. Release band safety pin removed
8. CBU-78:
  - a. Thermal battery firing device safety pin removed
  - b. SD selector switch set
9. SMP code set

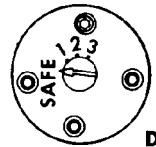
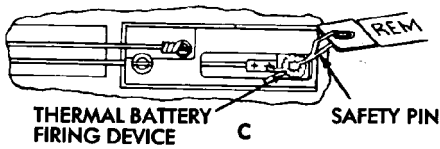
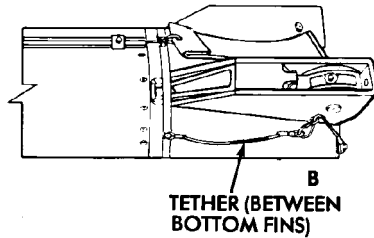
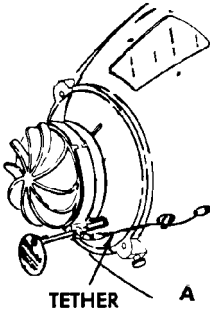
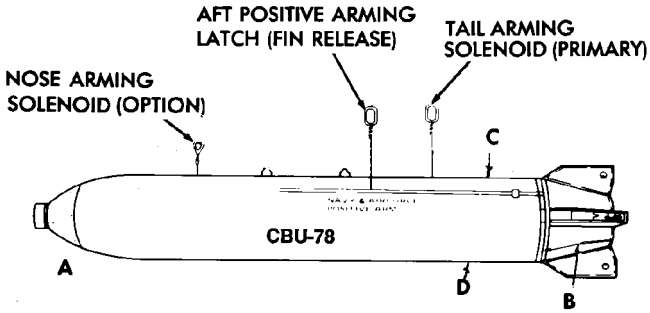




**NOTE**

**FUZE ARMED IF RED VISIBLE ON  
EXTENDED INDICATOR PITOT TUBE**

**FMU-140/B FUZE INSPECTION**



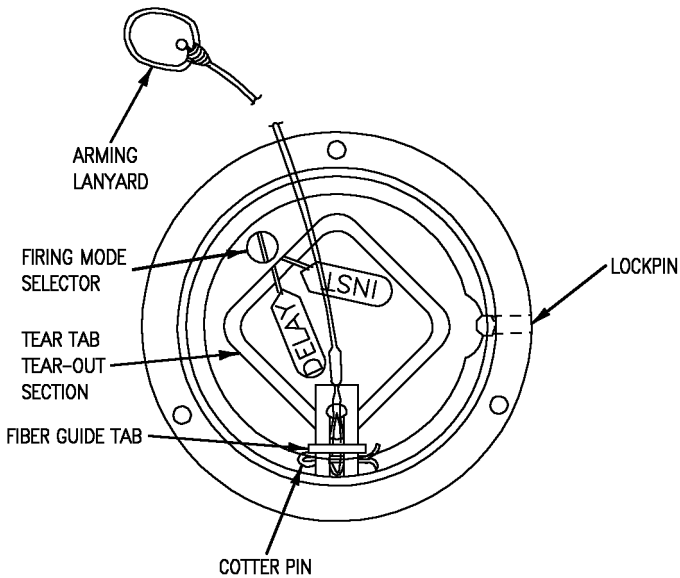
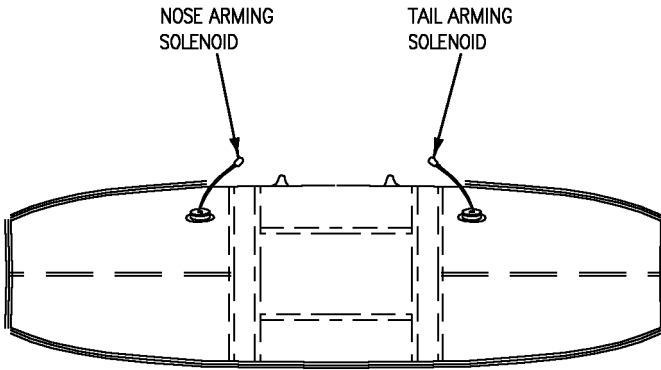
SD SELECTOR SWITCH



## **MK 77 FIRE BOMB**

### **Preflight Checks**

1. Ground safety handles in LOCKED position on loaded stations
2. Swaybraces properly seated
3. Cartridges installed in all loaded bomb racks; cartridge retainers and auxiliary cartridge cap tight (all stations)
4. Fire bomb not leaking or damaged
5. Arming lanyards properly routed and connected
6. Inspect Mk 13 initiator as follows:
  - a. Retaining rings tight
  - b. Tear out section of the initiator not damaged
  - c. Initiator firing mode selectors set
7. SMP codes set

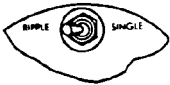
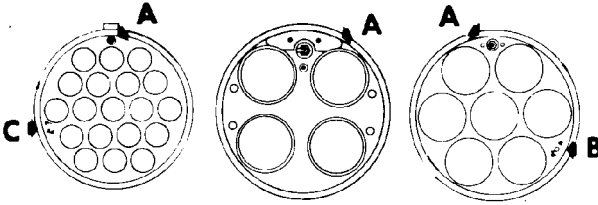
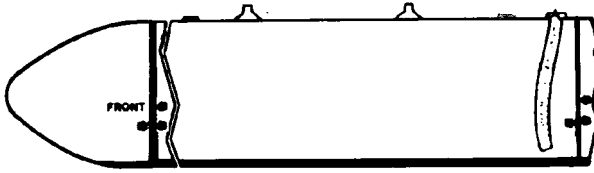


18AC-TAC-30-(20-1)13-CATI

## ROCKETS

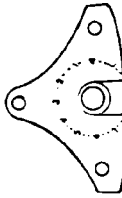
### Preflight Checks

1. Ground safety handles locked
2. Swaybraces seated
3. Cartridges installed; retainers/auxiliary cap tight
4. VER adapter harness electrically connected
5. Launcher:
  - a. Safety pin installed
  - b. Not electrically connected
  - c. Mode selector switch set
  - d. (LAU-61/68) Intervalometer set to A
  - e. (LAU-10) Detent lift arms - FIRE
6. (Mk 84 Chaff) Fuze set as desired
7. (If applicable) Fairings installed
8. SMP code set



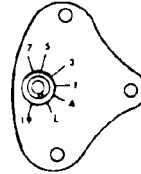
**LAU-61 SERIES  
MODE SELECTOR**

**A**



**LAU-68 B/A  
INTERVALOMETER**

**B**



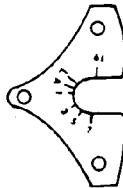
**LAU-61 A/A  
LAU-61 B/A  
INTERVALOMETER**

**C**



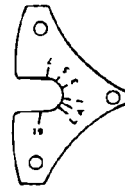
**LAU-68 SERIES  
MODE SELECTOR**

**A**



**LAU-68D/A  
INTERVALOMETER**

**B**



**LAU-61C/A  
INTERVALOMETER**

**C**



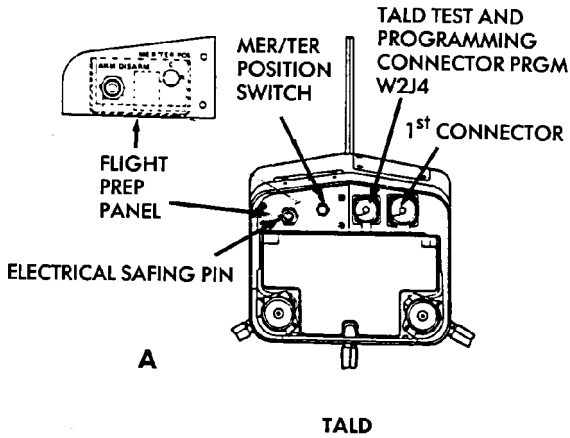
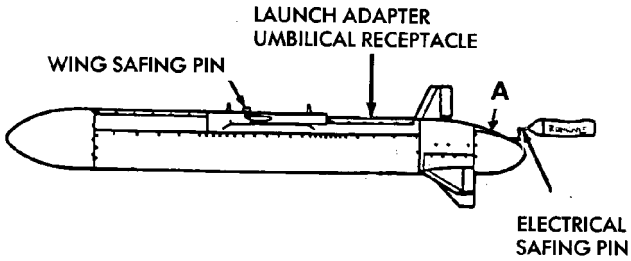
**LAU-10 SERIES  
MODE SELECTOR**

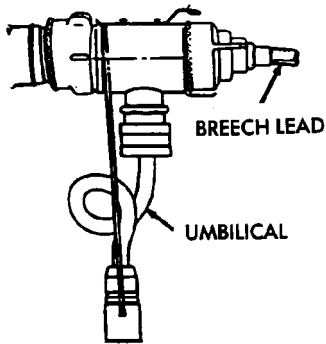
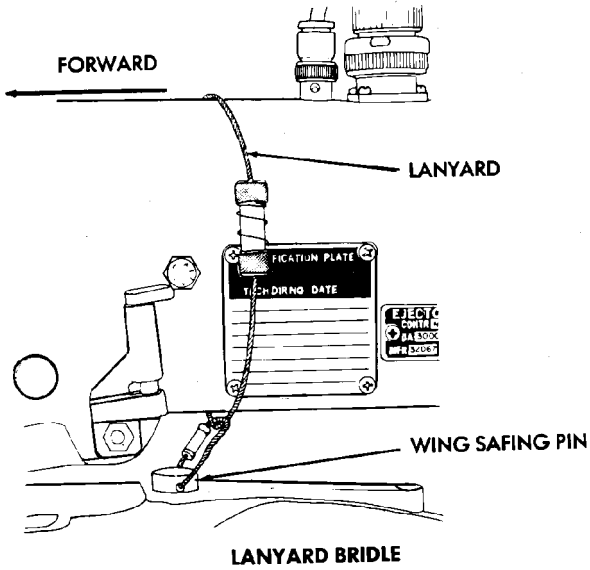
**A**

## **TALD**

### **Preflight Checks**

1. Ground safety handle/safety stop lever locked
2. Swaybraces seated/adjusted
3. Cartridges installed; retainers/auxiliary cap/breech caps tight
4. BRU-42:
  - a. Adapter harness electrically connected
  - b. All unloaded suspension hooks open
5. TALD:
  - a. Electrical safing pin installed
  - b. MER/TER position switch set for station loaded
6. Wing safing pin installed; lanyard bridle attached to safing pin and rack
7. Launch adapter umbilical not connected to store
8. Cartridge and launch adapter installed in/on breech
9. SMP code set





LAUNCH ADAPTER CABLE

## PYROTECHNICS LUU-2 FLARE/MK 58 MLM

### Preflight Checks

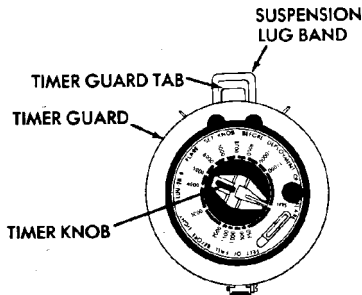
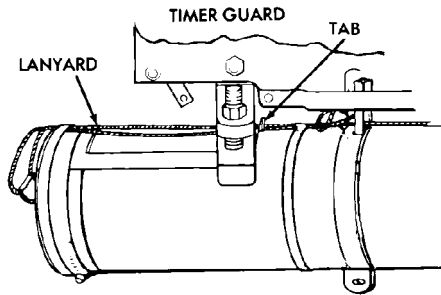
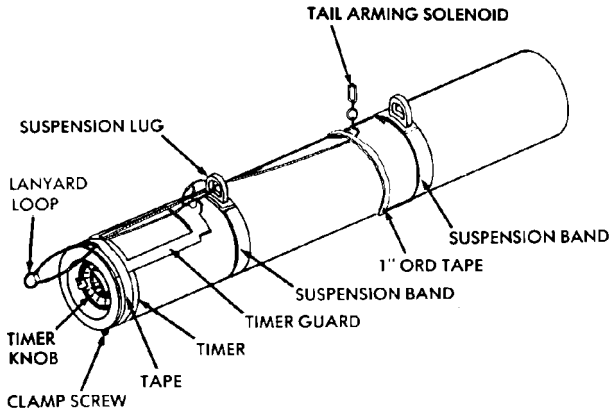
1. Ground safety handle/safety stop lever(s) locked
2. Swaybraces seated/adjusted
3. Cartridges installed; retainers/auxiliary cap/breech cap(s) tight
4. MER/BRU-41:
  - a. Adapter harness electrically connected
  - b. All unloaded suspension hooks open
  - c. Ejector feet positioned
  - d. (MER) Mode selector set
  - e. (MER) Electric safety pin installed
5. LUU-2:
  - a. Timer set
  - b. Lanyard loop connected to timer knob
  - c. Timer guard tab positioned behind swaybrace adapter bracket
  - d. Lanyard connected to tail solenoid
6. (Mk 58 MLM) Arming wire attached to BASB and pull ring
7. SMP code set

### NOTE

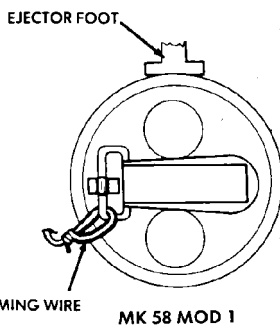
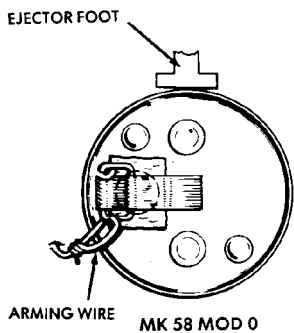
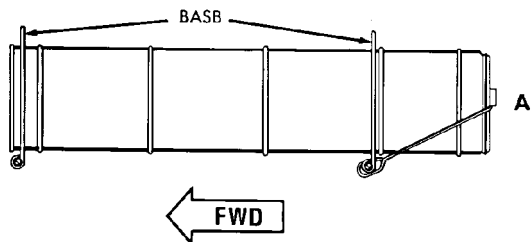
LUU-2s are only carried on the centerline and outboard MER stations.



# LUU-2 Flare



# Mk 58 MLM



**PRACTICE BOMBS MK 76/BDU-33D/B/  
MK 106/BDU-48/B**

**Preflight Checks**

1. Ground safety handle/safety stop lever(s) locked
2. Swaybraces seated/adjusted
3. Cartridges installed; retainers/auxiliary cap/  
breech cap(s) tight
4. MER/BRU-41:
  - a. Adapter harness electrically connected
  - b. All unloaded suspension hooks open
  - c. (MER) Mode selector set
  - d. (MER) Electrical safety pin installed
5. (BDU-33) Safety block with safety pin installed
6. (Mk 106) Firing device cotter pin and safety pin removed
7. SMP code set

## MINES MK 52/55/56/62/63/65

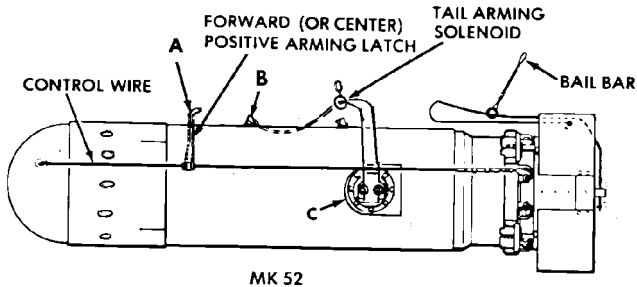
### Preflight Checks

1. Ground safety handle locked
2. Swaybraces seated
3. Cartridges installed; retainers/auxiliary cap tight
4. Mk 52/55/56:
  - a. Parachute pack arming wire installed; safety pin/screw removed
  - b. (Mk 56) Safety pins removed from release pins
  - c. Arming wires installed
  - d. Arming device safety pin(s) removed
5. Mk 62/63/65:
  - a. Arming wires/lanyard installed
  - b. (Mk 62/63) Arming device safety wire removed
  - c. (Mk 62/Mk 15 fin) Fin release band latch assembly safety pin removed
  - d. (Mk 62/BSU-86 fin) Fin release lanyard connected
  - e. (Mk 63) Fin release lanyard and pin installed; safety pin removed
  - f. (Mk 65)
    - (1) Safety bar removed
    - (2) Altitude switch set - LO

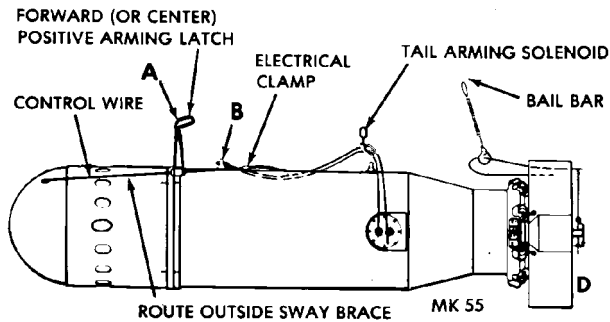
**WARNING**

Do not stand directly behind a mine. The parapak is explosive (Mk 52/55/56/65).

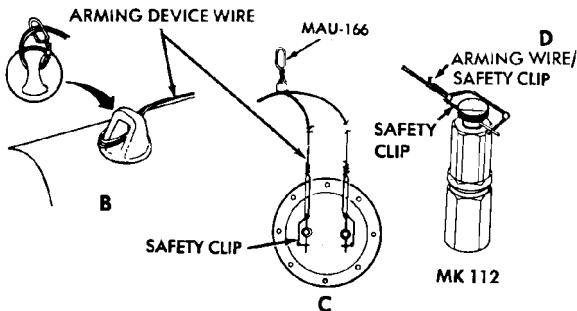
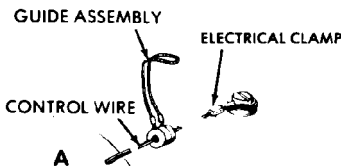
6. SMP code set



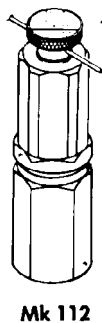
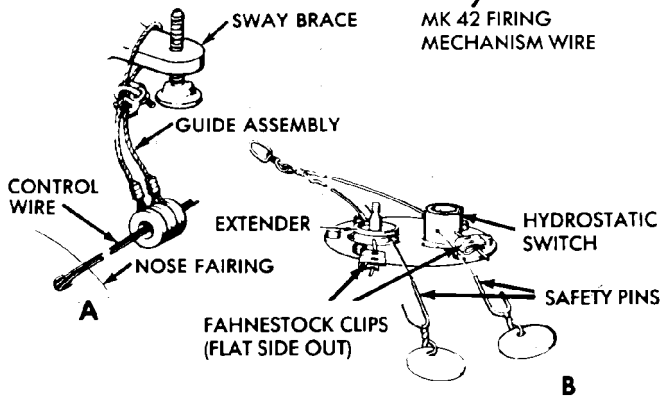
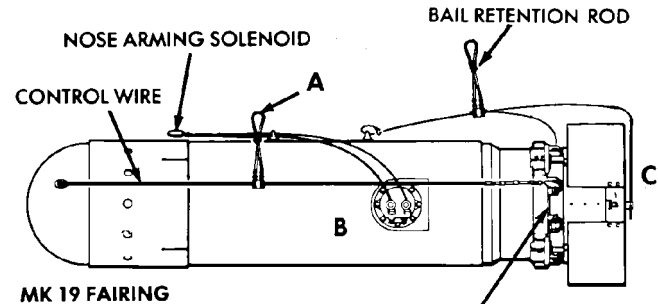
MK 52



ROUTE OUTSIDE SWAY BRACE MK 55



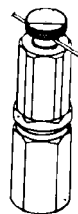
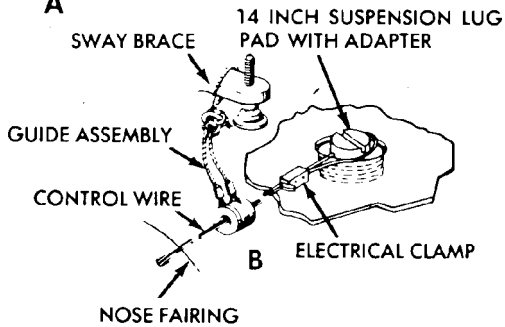
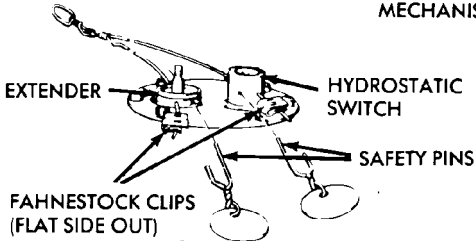
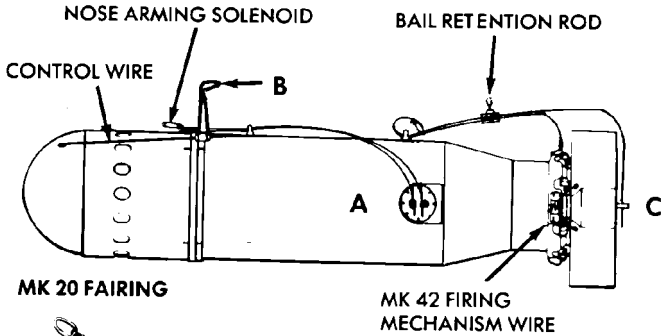
NWP 3-22.5-FA18A/B/C/D PG (Rev. A)



REMOVE  
SAFETY SCREW  
AFTER INSERTING  
ARMING WIRE  
USE NO CLIPS ON  
ARMING WIRE

Mk 52 MOD 11

# NWP 3-22.5-FA18A/B/C/D PG (Rev. A)

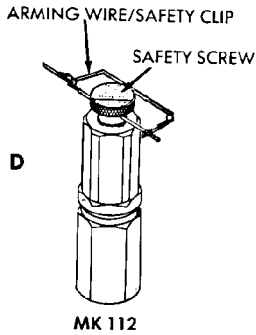
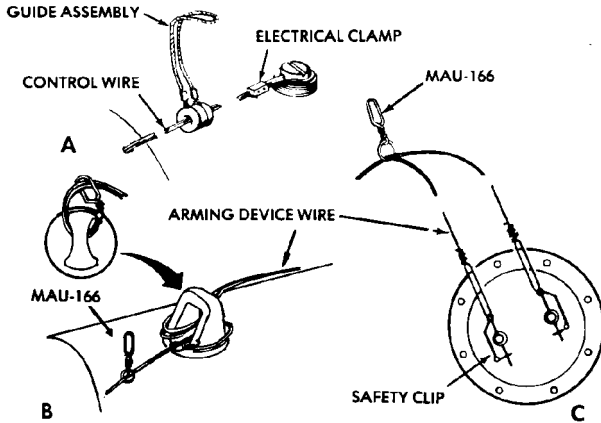
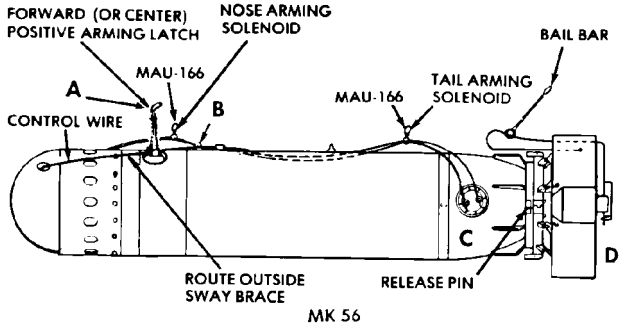


Mk 112

REMOVE  
 SAFETY SCREW  
 AFTER INSERTING  
 ARMING WIRE  
 USE NO CLIPS ON  
 ARMING WIRE

Mk 55 MOD 11

# Mines Mk 56

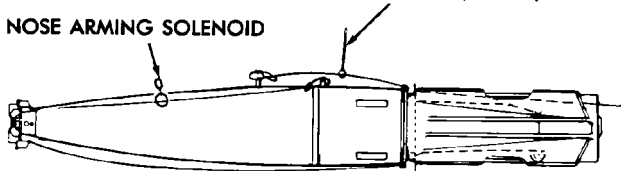




# Mines Mk 62/63

CENTER POSITIVE ARMING LATCH (BRU-32)  
RIGHT FWD SWAY BRACE (BRU-33)

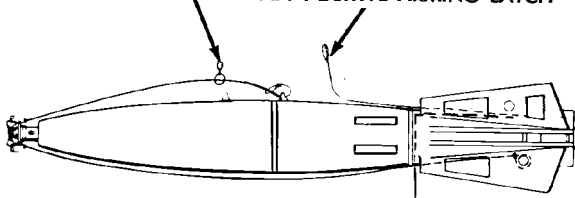
NOSE ARMING SOLENOID



Mk 62/Mk 15 FIN

NOSE ARMING SOLENOID

AFT POSITIVE ARMING LATCH



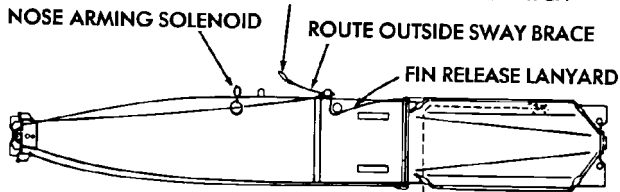
Mk 62/BSU-86 FIN

CENTER POSITIVE ARMING LATCH

NOSE ARMING SOLENOID

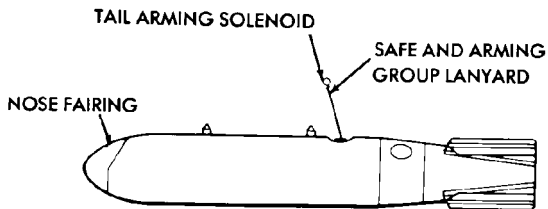
ROUTE OUTSIDE SWAY BRACE

FIN RELEASE LANYARD



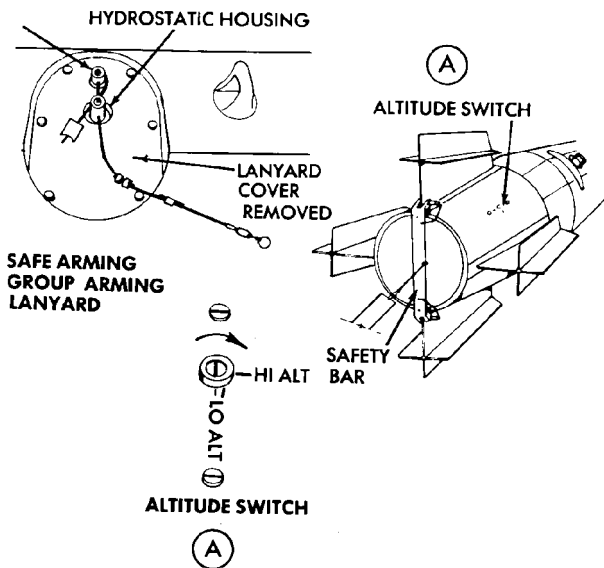
Mk 63

# Mines Mk 65



BATTERY FIRING  
PIN HOUSING

**MK 65**



**MINES EMPLOYMENT/FLIGHT  
DIRECTOR MODE**

**POSTSTART CHECKS**

1. Master arm switch - SAFE
2. A/G master mode - SELECT
3. Weapon - SELECT
  - a. Weapon boxed on stores display
4. Program - SELECT
5. FD - SELECT
6. UFC - SELECT
7. Fuzing, quantity, multiple, interval, bank angle - ENTER
8. Course select switch - SET BRIEFED RUN IN HDG

**TARGET AREA CHECKS**

1. A/G master mode - SELECT
2. Weapon - SELECT
  - a. Weapon boxed on stores display
3. D/L - UNBOXED ON HI
4. VEC - UNBOXED ON HI
5. Program - CHECK
6. Course select - CHECK
7. TDC - AS DESIRED
8. TGT - DESIGNATE
9. Course line steering - ATTEMPT TO SET UP ON RUN IN HDG
10. A/P SELECT
11. CPL - Colonize 15,000 feet prior to first impact
12. Master arm switch - ARM
13. Weapon release button - PRESS AND HOLD UNTIL FINAL RELEASE
14. A/P - DISENGAGE

## DESTRUCTORS MK 36/40 DST

### Preflight Checks

1. Ground safety handle locked
2. Swaybraces seated
3. Cartridges installed; retainers/auxiliary cap(s) tight
4. Arming wires installed
5. Arming device safety wire removed
6. (Mk 36/Mk 15 fin) Fin release band latch assembly safety pin removed
7. (Mk 36/BSU-86 fin) Fin release lanyard connected
8. (Mk 40/MAU-91) Fin release lanyard and pin installed; safety pin removed
9. SMP code set

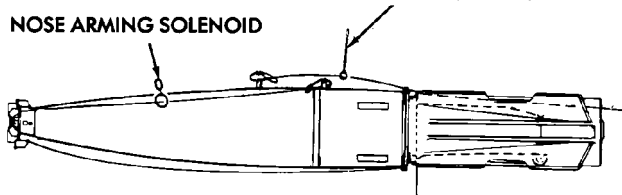
### NOTE

Line diagram illustrating arming cable rigging for the Mk 36 DST with Mk 16 tail section and Mk 40 DST with Mk 12 tail section to be provided.

# ***Destructors Mk 36/40 DST***

CENTER POSITIVE ARMING LATCH (BRU-32)  
RIGHT FWD SWAY BRACE (BRU-33)

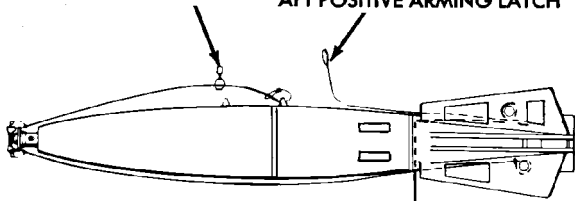
NOSE ARMING SOLENOID



**Mk 36/Mk 15 FIN**

NOSE ARMING SOLENOID

AFT POSITIVE ARMING LATCH



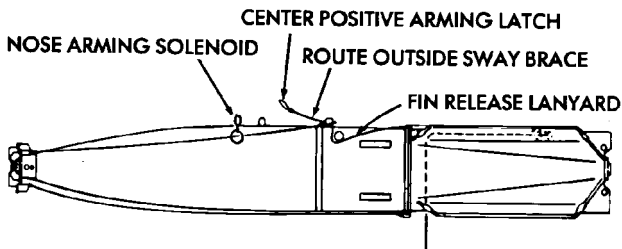
**Mk 36/BSU-86 FIN**

CENTER POSITIVE ARMING LATCH

NOSE ARMING SOLENOID

ROUTE OUTSIDE SWAY BRACE

FIN RELEASE LANYARD



**Mk 40 DST**

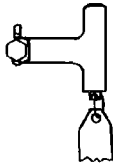
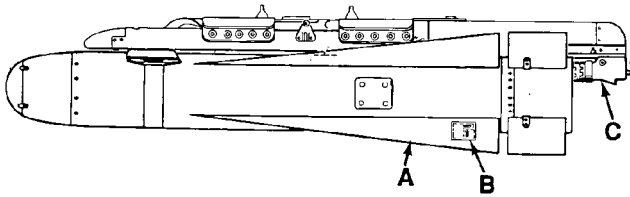


## AIR-TO-GROUND MISSILES

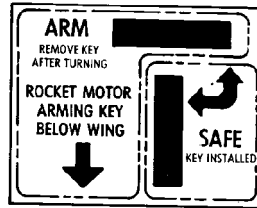
### AGM-65E/F MAVERICK PREFLIGHT CHECKS

1. BRU-32 with LAU-117 installed
  - a. Ground safety handle locked
  - b. Sway braces seated
  - c. Cartridges installed; retainers/auxiliary cap tight
  - d. Launcher electrically connected
2. Missile:
  - a. Safe/Arm device key - SAFE
  - b. Umbilical connector mated - NO RED VISIBLE
  - c. Ignitor cable NOT connected to launcher igniter connector receptacle
3. SMP code set

AGM-65 MAVERICK

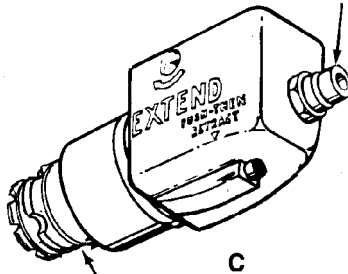


**A**  
SAFE ARM  
DEVICE KEY



**B**  
ARMING KEY DECAL

LAUNCHER IGNITER  
CONNECTOR RECEPTACLE



**C**  
UMBILICAL CONNECTOR  
(NO RED VISIBLE)



## AGM-65E EMPLOYMENT

### WITH KNOWN TARGET LOCATION

1. A/G master mode - SELECT
2. Select MAV display:
  - Caged display
  - Fuze option selected
  - Timing cue 30 seconds
  - MAV LOS triangle on HUD
3. Select UFC and enter LASER code(s)
4. Uncage missile - full MAV video
5. Assign TDC to sensor
6. Designate target:
  - MAV LOS and TD diamond coincide
  - .S appears on MAV display (if TGT designated with another sensor, i.e., NAVDSG).
  - When lock-on occurs, gimbal angle symbol replaced with solid box lock-on cue, S removed.
7. Lock-on:
  - Keyhole constraints
  - LKD indication
  - IN RNG cue
8. Master arm switch - ARM
9. Weapon release button - ACTUATE

### WITH UNKNOWN TARGET LOCATION

1. A/G master mode - SELECT
2. Select MAV display:
  - Caged display
  - Fuze option selected
  - Timing cue 30 seconds
  - MAV LOS triangle on HUD
3. Select UFC and enter LASER code(s)
4. Uncage missile - full MAV video
5. TDC - assign to MAV
6. TDC - DEPRESS
  - Scan mode entered, scan slew available.
  - When target detected, missile lock-on automatic.

7. Lock-on:
  - Keyhole constraints
  - LKD indication
  - IN RNG cue
8. Master arm - ARM
9. Weapon release button - ACTUATE

## **AGM-65F EMPLOYMENT**

### **SBST**

1. A/G master mode - SELECT
2. IMAV on stores display - SELECT
  - 3-minute cool down time initiated
3. Assign TDC to HUD and designate TGT
4. IMAV - UNCAGE
5. Assign TDC to IMAV
6. Designate TGT in crosshairs - NO ACTION  
SLEW
7. Select SBST
  - LOS triangle should overlay TD  
diamond on HUD
8. Master arm switch - ARM
9. With IN RNG cue and steady pointing cross,  
weapon release button - ACTUATE

### **TBST**

1. A/G master mode - SELECT
2. IMAV on stores display - SELECT
  - 3-minute cool down time initiated
3. Assign TDC to HUD and designate TGT
4. IMAV - UNCAGE
5. Assign TDC to IMAV
6. Action slew and track designated TGT (release  
TDC for lock-on)
7. With steady pointing cross - TBST PRESS
  - LOS triangle should overlay TD  
diamond on HUD
8. Master arm switch - ARM
9. With IN RNG cue and steady pointing cross,  
weapon release button - ACTUATE

**VISUAL ATTACK**

1. A/G master mode - SELECT
2. IMAV - SELECT  
3-minute cool down time initiated.
3. Assign TDC to IMAV
4. Desired options - SELECT
5. Master arm switch - ARM
6. Action slew crosshairs to TGT
7. Establish aircraft in wings level attitude during designate.
8. Release TDC
9. With IN RNG cue and steady pointing cross, weapon release button - ACTUATE

**AGM-65E SIMULATED ATTACK**

1. A/G master mode - SELECT
2. Master arm switch - SAFE
3. SIM option - SELECT

**WITH KNOWN TARGET LOCATION**

1. Select MAV display:
  - Caged display
  - Fuze option selected
  - Timing cue 30 seconds
  - MAV LOS triangle on HUD
2. Select UFC and enter LASER code(s)
3. Uncage missile - full MAV video
4. Assign TDC to sensor
5. Designate target:
  - MAV LOS and TD diamond coincide
  - S appears on MAV display (if TGT designated with another sensor, i.e., NAVDSG)
  - When lock-on occurs, gimbale angle symbol replaced with solid box lock-on cue, S removed
6. Lock-on:
  - Keyhole constraints
  - LKD indication
  - IN RNG cue
7. Master arm switch- simulate ARM (do not ARM unless required/desired for chaff/flare utilization)
8. Weapon release button - PRESS

**WITH UNKNOWN TARGET LOCATION**

1. Select MAV display:
  - Caged display
  - Fuze option selected
  - Timing cue 30 seconds
  - MAV LOS triangle on HUD
2. Select UFC and enter LASER code(s)
3. Uncage missile - full MAV video
4. TDC - assign to MAV

5. TDC - PRESS  
Scan mode entered, scan slew available.  
When target detected, missile lock-on automatic.
6. Lock-on:  
Keyhole constraints  
LKD indication  
IN RNG cue
7. Master arm switch - simulate ARM (do not ARM unless required/desired for chaff/flare utilization)
8. Weapon release button - ACTUATE

**AFTER SIMULATED ATTACK**

**NOTE**

If master arm switch - ARM is required (chaff/flare) or is inadvertently selected, ensure master arm switch - SAFE is selected following simulated attack and prior to deselecting SIM.

1. SIM option - DESELECT

## AGM-65F SIMULATED ATTACK

1. A/G master mode - SELECT
2. Master arm switch - SAFE
3. SIM option - SELECT

### SBST

1. IMAV on stores display - SELECT  
3-minute cool down time initiated
2. Assign TDC to HUD and designate TGT
3. IMAV - UNCAGE
4. Assign TDC to IMAV
5. Designate TGT in crosshairs - NO ACTION  
SLEW
6. Select SBST  
LOS triangle should overlay TD  
diamond on HUD.
7. Master arm switch - simulate ARM (do not ARM  
unless required/desired for chaff/flare utilization)
8. With IN RNG cue and steady pointing cross,  
weapon release button - PRESS

### TBST

1. IMAV on stores display - SELECT  
3-minute cool down time initiated
2. Assign TDC to HUD and designate TGT
3. IMAV - UNCAGE
4. Assign TDC to IMAV
5. Action slew and track designated TGT (release  
TDC for lock-on)
6. With steady pointing cross - TBST PRESS  
LOS triangle should overlay TD  
diamond on HUD.
7. Master arm switch - simulate ARM (do not ARM  
unless required/desired for chaff/flare utilization)
8. With IN RNG cue and steady pointing cross,  
weapon release button - PRESS

**VISUAL ATTACK**

1. IMAV - SELECT  
3-minute cool down time initiated.
2. Assign TDC to IMAV
3. Desired options - SELECT
4. Master arm switch - simulate ARM (do not ARM unless required/desired for chaff/flare utilization)
5. Action slew crosshairs to TGT
6. Establish aircraft in wings level attitude during designate
7. Release TDC
8. With IN RNG cue and steady pointing cross, weapon release button - PRESS

**AFTER SIMULATED ATTACK**

**NOTE**

If master arm switch - ARM is required (chaff/flare) or is inadvertently selected, ensure master arm switch - SAFE is selected following simulated attack and prior to deselecting SIM.

1. SIM option - DESELECT

## AGM-84 HARPOON PREFLIGHT CHECKS

1. Ground safety handle locked
2. Swaybraces seated
3. Cartridges installed, retainers/auxiliary cap tight
4. Umbilical cable connected to missile

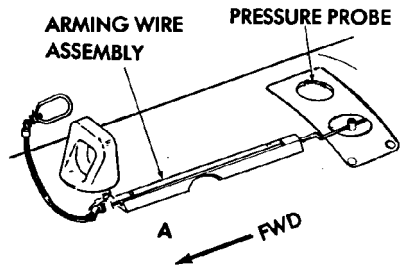
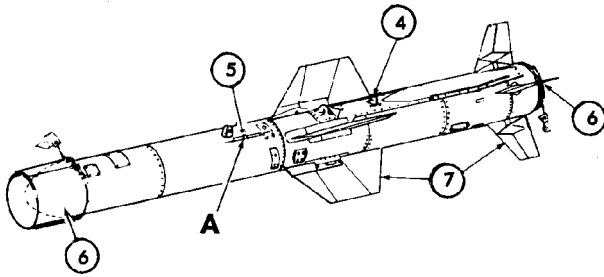


Logistic movement requires umbilical cable to be connected. Pressure probe arming lanyard **MUST NOT** be connected.

5. (If applicable) Pressure probe arming lanyard connected
6. Radome/IIR dome and exit covers removed
7. Wings and fins installed
8. SMP code set
9. Mission data loaded (SLAM)



**AGM-84-HARPOON**



## **AGM-84 EMPLOYMENT**

### **INFLIGHT**

1. A/G master mode - SELECT

### **AUX RELEASE**

1. Harpoon is indicating H+LKD
2. Select ENABLE on AUX release switch
3. Master Arm switch - ARM
4. Select STORES or RACK/LCHR on selective jettison select button
5. Select HUNG store station on selective jettison select button
6. Press JETT center pushbutton on selective jettison knob

### **R/BL LAUNCH MODE**

1. Select HPD on STORES display
2. Program MODE - R/BL (target position/range known)
3. Select FLT - LOW, MED, HIGH
4. Select TERM option - POP, SKIM
5. Select SEEK - SML, MED, LRG (seeker search pattern)
6. If LRG selected: LEFT, RIGHT, NORM, NEAR, FAR (OFFSET priority options)
7. Select HPTP if desired (WYPT used is current WYPT)
8. Complete targeting solution (RDR, D/L, FLIR, NAVDSG)
9. Check for IN ZONE cue
10. Master arm switch - ARM
11. Weapon release button - PRESS

**BOL LAUNCH MODE**

1. Select HPD on STORES display
2. Program MODE - BOL (no range to target known)
3. Select FLT - LOW, MED, HIGH
4. Select TERM option - POP, SKIM
5. Select UFC: SRCH - Seeker enable range  
DSTR - Missile destruct range  
BRG - Ordered missile bearing
6. Select HPTP if desired (WYPT used is current WYPT)
7. Select FXPT if desired (fixed point about the center of SRCH and DSTR)
8. Check for IN ZONE cue
9. Master arm switch - ARM
10. Depress WEAPONS RELEASE button

**LOS LAUNCH MODE**

1. Select HPD on STORES display
- OR
2. Select STEP option to select LOS missile if HPD degraded
  3. LOS cue on STORES display and HP LOS on HUD will flash for 40 seconds
  4. Fly straight and level on bearing with intended target
  5. Steady LOS or HP LOS cues
  6. IN ZONE will always be displayed except for ALT cue conditions
  7. Master arm switch - ARM
  8. Weapon release button - PRESS

## **AGM-84 SIMULATED ATTACK**

1. A/G master mode - SELECT
2. Master arm switch - SAFE
3. SIM option - SELECT
4. Master arm switch - simulate ARM (do not ARM unless required/desired for chaff/flare utilization)

## **R/BL LAUNCH MODE**

1. Select HPD on STORES display
2. Program MODE - R/BL (target position/range known)
3. Select FLT - LOW, MED, HIGH
4. Select TERM option - POP, SKIM
5. Select SEEK - SML, MED, LRG (seeker search pattern)
6. If LRG selected: LEFT, RIGHT, NORM, NEAR, FAR (OFFSET priority options)
7. Select HPTP if desired (WYPT used is current WYPT)
8. Complete targetting solution (RDR, D/L, FLIR, NAVDSG)
9. Check for IN ZONE cue
10. Weapon release button - PRESS

## **BOL LAUNCH MODE**

1. Select HPD on STORES display
2. Program MODE - BOL (no range to target known)
3. Select FLT - LOW, MED, HIGH
4. Select TERM option - POP, SKIM
5. Select UFC: SRCH - Seeker enable range  
DSTR - Missile destruct range  
BRG - Ordered missile bearing
6. Select HPTP if desired (WYPT used is current WYPT)
7. Select FXPT if desired (fixed point about the center of SRCH and DSTR)
8. Check for IN ZONE cue
9. Weapon release button - PRESS

**LOS LAUNCH MODE**

1. Select HPD on STORES display
- OR
2. Select STEP option to select LOS missile if HPD degraded
  3. LOS cue on STORES display and HP LOS on HUD will flash for 40 seconds
  4. Fly straight and level on bearing with intended target
  5. Steady LOS or HP LOS cues
  6. IN ZONE is always displayed except for ALT cue conditions
  7. Weapon release button - PRESS

**AFTER SIMULATED ATTACK**

**NOTE**

If master arm switch - ARM is required (chaff/flare) or is inadvertently selected, ensure master arm switch- SAFE is selected following simulated attack and prior to deselecting SIM.

1. SIM option - DESELECT

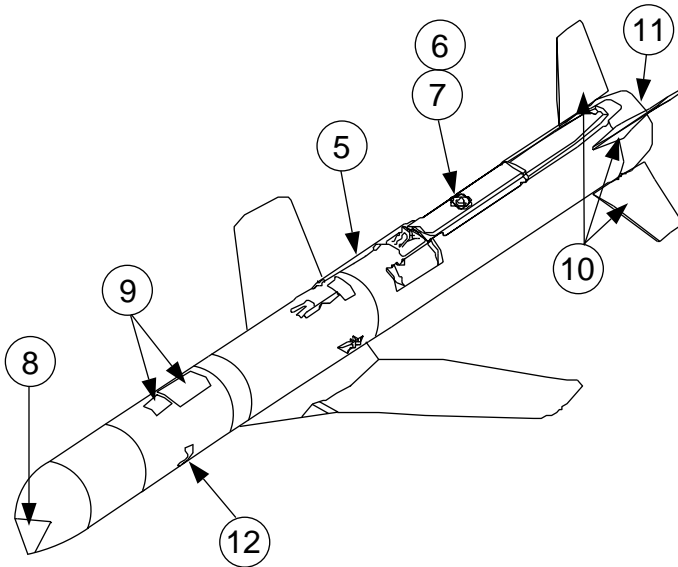
**AGM-84E SLAM**

**Refer to SLAM Pilot Checklist Guide.**

## AGM-84H (SLAM ER)

### PREFLIGHT CHECKS

1. Ground safety handle - LOCKED
2. Swaybraces - SEATED
3. Cartridges - INSTALLED
4. Retainers/auxiliary cap - TIGHT
5. Press probe arming lanyard - CONNECTED
6. Adapter cable - CONNECTED TO MISSILE
7. Adapter cable retainers - CONNECTED TO BAIL BAR
8. Nose fairing window - NO DAMAGE, DO NOT TOUCH
9. WDL & GPS antennas - NO DAMAGE
10. Fins - INSTALLED
11. Exhaust cover - REMOVED
12. Air data probe cover - REMOVED



## AGM-84H EMPLOYMENT

### POSTSTART CHECKS

The following checklist items apply to autonomous or COOP aircraft with SLMR and DL13.

#### UFC

1. ZTOD - ENTER

#### Stores Display

2. SLMR cue - VERIFY (IN TEST)  
If SLAM ER does not inventory (1 SLMR does not appear), check umbilical connections. If still no inventory, turn generators and batteries off for 10 seconds, reapply power. If SLMR indicates HOLD, enter ZTOD and verify SLMR XFER and TEST.

#### BIT Store Station Display

3. SLMR timing cue - DECREASING
4. DL13 cue - IN TEST

#### BIT Store Station Display (SLMR Timing = 0)

5. SLMR/DL13 cue - VERIFY GO  
If SLMR/DL13 do not indicate GO, perform SLMR/DL13 BIT.
6. A/G master mode - SELECT

#### Stores Display

7. SLMR option - SELECT/BOX
8. DL13 option - SELECT/BOX

#### SLMR Display

9. PP/TOO mode - SELECT
10. MSN - VERIFY/SELECT

#### DL13 Display

11. Pod configuration. - VERIFY (PRE, CH/ID, DLPWR LO, ANT AFT) and coordinate XTMR ON/OFF with COOP DL13 aircraft.
12. XTMR (ON/OFF) option - VERIFY VIDEO



13. SLMR, DL13, A/G - UNBOX

## **DL13 POD ONLY POSTSTART CHECKS**

### **BIT Store Station**

1. DL13 cue - VERIFY GO  
If SLMR/DL13 do not indicate GO, perform SLMR/DL13 BIT.
2. A/G master mode - VERIFY/SELECT

### **Stores Display**

3. DL13 option - SELECT/BOX

### **DL13 Display**

4. Pod CONFIG - VERIFY (PRE, CH/ID, DLPWR LO, ANT AFT) and coordinate XTMR ON/OFF with SLMR aircraft.
5. XTMR (ON/OFF) option - VERIFY VIDEO DSPLY  
If video signal is weak or absent, select MPWR HI option.
6. DL13/A/G - UNBOX SV ACQD - VERIFY

## **AGM-84H EMPLOYMENT**

### **PP OWNERSHIP or CO-OP MISSION - LAUNCH AIRCRAFT**

1. A/G master mode - SELECT

### **Stores Display**

2. SLMR - SELECT/BOX
3. DL13 (if loaded) - SELECT/BOX

### **DL13 Display**

4. Pod configuration - VERIFY (PRE, CH/ID, DLPWR LO, ANT AFT)

### **SLMR Display**

5. Mode - SELECT PP
6. MSN - VERIFY/SELECT
7. SV ACQD - VERIFY

The number of satellites acquired should be  $\geq 3$ . If the mission is  $< 30$  NM or GPS jamming is expected, then 4 is recommended.

8. Master arm switch- ARM
9. Pickle (at launch point) - PRESS/HOLD
10. Master arm switch - OFF  
Turn immediately after launch to avoid a collision with SLAM ER.

## **DL13 Display**

11. TDC - ASSIGN TO DL13 DISPLAY
12. POST display - VERIFY
13. TTV - VERIFY COUNTDOWN
14. At Data Link Radiate - CALL "GOOD VIDEO"
15. Change FOV - CALL "GOOD CONTROL"  
If there are no HOTAS controls, ensure TDC is assigned and A/G is selected.
16. SLAM ER - CONTROL TO IMPACT
17. SLMR/DL13/A/G - UNBOX

## **PP CO-OP MISSION - CONTROL AIRCRAFT**

1. A/G master mode - SELECT

### **Stores Display**

2. DL13 option - SELECT/BOX

### **DL13 Display**

3. WPN - SELECT SLMR
4. DSPLY - SELECT PRE
5. CH/ID - SELECT/VERIFY
6. COOP - SELECT
7. PP Mode - SELECT
8. Ensure that SLMR is deselected (If SLMR loaded)
9. TTV - ENTER ON UFC
10. ANT - AS REQD
11. DLPWR - SELECT HI

### **Prior To Launch**

12. DSPLY - SELECT POST
13. Start TTV - SELECT AT LAUNCH
14. TDC - ASSIGN TO DL13 DISPLAY
15. AT data link radiate - CALL "GOOD VIDEO"
16. Change FOV - CALL "GOOD CONTROL"

## NWP 3-22.5-FA18A/B/C/D PG (Rev. A)

If there are no HOTAS controls, ensure TDC is assigned and A/G is selected.

17. SLAM ER - CONTROL TO IMPACT
18. DL13/A/G - UNBOX

### **TOO OWNERSHIP or CO-OP MISSION - LAUNCH AIRCRAFT**

Select SLMR 3 minutes prior to launch to ensure seeker cooldown on short range missions.

1. A/G master mode - SELECT

#### **Stores Display**

2. SLMR - SELECT/BOX
3. DL13 (if loaded) - SELECT/BOX

#### **DL13 Display**

4. Pod configuration - VERIFY (PRE, CH/ID, DLPWR LO, ANT AFT)

#### **SLMR Display**

5. Mode - SELECT PP
6. MSN - VERIFY/SELECT
7. Designate target - VERIFY COORDINATES and ELEVATION  
(Recommend NAV DESIGNATE for LAND and RDR LOCK for ASUW)
8. SV ACQD - VERIFY  
The number of satellites acquired should be  $\geq 3$ . If the mission is  $< 30$  nm or GPS jamming is expected then 4 is recommended.
9. Master arm switch - ARM
10. Pickle (at launch point) - PRESS/HOLD
11. Master arm switch - SAFE  
Turn immediately after launch to avoid a collision with SLAM ER.

#### **DL13 Display**

12. TDC/DC - ASSIGN TO DL13 DISPLAY
13. POST Display - VERIFY
14. At data link radiate - CALL "GOOD VIDEO"
15. Change FOV - CALL "GOOD CONTROL"  
If there are no HOTAS controls, ensure TDC is assigned and A/G is selected.

16. SLAM ER - CONTROL TO IMPACT
17. SLMR/DL13/A/G - UNBOX

**TOO CO-OP MISSION - CONTROL AIRCRAFT**

1. A/G master mode - SELECT

**Stores Display**

2. DL13 option - SELECT/BOX

**DL13 Display**

3. WPN - SELECT SLMR
4. DSPLY - SELECT PRE
5. CH/ID - SELECT/VERIFY
6. COOP - SELECT
7. LAND/ASUW - SELECT
8. Ensure that SLMR is deselected (If SLMR is loaded)
9. RTT - ENTER ON UFC
10. ANT - AS REQD
11. DLPWR - SELECT HI

**Prior To Launch**

12. DSPLY - SELECT POST
13. Start TTV - SELECT AT LAUNCH
14. TDC - ASSIGN TO DL13 DISPLAY
15. AT data link radiate - CALL "GOOD VIDEO"
16. Change FOV - CALL "GOOD CONTROL"  
If there are no HOTAS controls, ensure TDC is assigned and A/G is selected.
17. SLAM ER - CONTROL TO IMPACT
18. DL13/A/G - UNBOX

## AGM-84H SIMULATED ATTACK

### PP OWNERSHIP or CO-OP MISSION- LAUNCH AIRCRAFT

1. A/G master mode - SELECT

#### Stores Display

2. SIM mode - SELECT/BOX
3. SLMR (TSLR) option - SELECT/BOX
4. DL13 (if loaded) - SELECT/BOX

#### DL13 Display

5. Pod configuration - VERIFY (PRE, CH/ID, DLPWR LO, ANT AFT)

#### SLMR Display

6. Mode - SELECT PP
7. MSN - VERIFY/SELECT
8. SV ACQD - VERIFY  
The number of satellites acquired should be  $\geq 3$ . If the mission is  $< 30$  NM or GPS jamming is expected then 4 is recommended.
9. MSIM (at launch point) - SELECT

#### DL13 Display

10. TDC/DC - ASSIGN TO DL13 DISPLAY
11. POST display - VERIFY
12. At data link radiate - CALL "GOOD VIDEO"
13. Change FOV - CALL "GOOD CONTROL"  
If there are no HOTAS controls, ensure TDC is assigned and A/G is selected.
14. SLAM ER - CONTROL TO OVERFLY

#### SLMR Display

15. MSIM - UNBOX  
If performing additional sim flights, begin at step 5 and repeat process. Wait 5 seconds before performing step 16.
16. SLMR/ DL13/ A/G - UNBOX

**TOO CO-OP MISSION - CONTROL AIRCRAFT**

1. A/G master mode - SELECT

**Stores Display**

2. DL13 option - SELECT/BOX

**DL13 Display**

3. WPN - SELECT SLMR
4. DSPLY - SELECT PRE
5. CH/ID - SELECT/VERIFY
6. COOP - SELECT
7. LAND/ASUW - SELECT
8. Ensure that SLMR is deselected (If SLMR loaded)
9. RTT - ENTER ON UFC
10. ANT - AS REQD
11. DLPWR - SELECT HI

**Prior To or At MISM**

12. DSPLY - SELECT POST
13. Start RTT - SELECT AT MISM
14. TDC - ASSIGN TO DL13 DISPLAY
15. AT data link radiate - CALL "GOOD VIDEO"
16. Change FOV - CALL "GOOD CONTROL"  
If there are no HOTAS controls, ensure TDC is assigned and A/G is selected.
17. SLAM ER - CONTROL TO OVERFLY  
If performing additional sim flights, begin at step 4 and repeat process.
18. DL13/ A/G - UNBOX

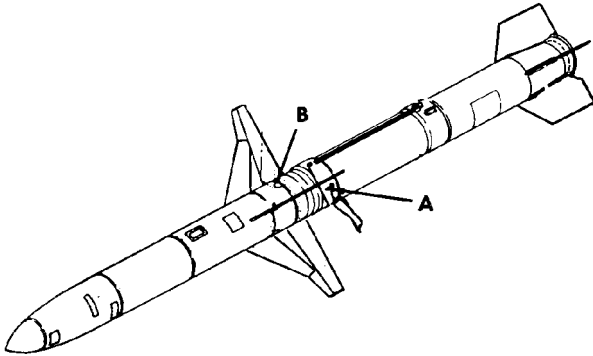
## AGM-88 HARM PREFLIGHT CHECKS

1. BRU-32 with LAU-118 installed
  - a. Ground safety handle locked
  - b. Swaybraces seated
  - c. Cartridges installed (retainers/auxiliary cap tight)
  - d. Launcher electrically connected to aircraft
2. Missile:
  - a. SA device - SAFE (arming key installed)
  - b. Umbilical NOT connected
  - c. Umbilical rod in umbilical fitting and secured
  - d. Wings and fins secured
3. SMP code set
4. Aircraft:
  - a. CLC latching fault indicator - black is good (white is failed)
  - b. ALQ-126B latching fault indicator - black is good (white is failed)

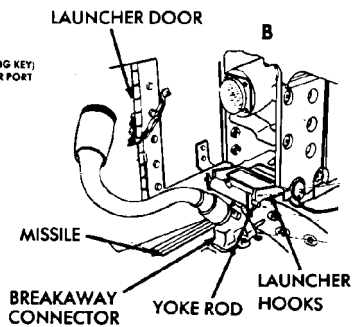
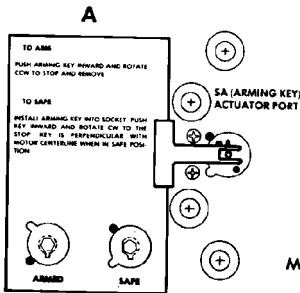
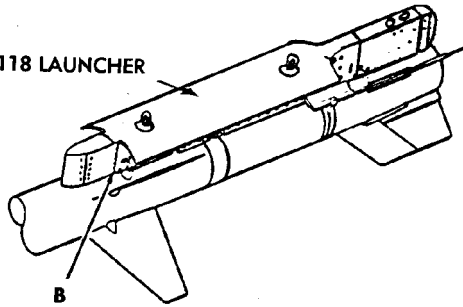
### NOTE

Fault indicators are considered to be unreliable with external power or no power on the aircraft. The best method for determining equipment status is by conducting a BIT using cockpit controls with aircraft power.

- c. Check RWR and DECM antennas for damage



LAU-118 LAUNCHER





## **AGM-88 EMPLOYMENT**

### **POSTSTART CHECKS**

The HARM stray voltage check and umbilical connection can be completed only after aircraft power is applied. The check can be performed in any designated area. The missile is not armed until the missile rocket motor has been armed. Arming can only be performed in the forward-firing ordnance arming area or on the catapult. Poststart pilot actions should generally be as follows:

1. After engine start and in normal sequence with other avionics operations, turn on the RWR and DECM.

### **NOTE**

On deck at ambient temperatures over 80° F, the RWR and DECM should be limited to 5 minutes power on to prevent damage from overheating.

2. When able, perform BIT on RWR, DECM, and SMS. HARM BIT cannot be done until the umbilical is connected.
3. Perform HARM stray voltage check and connect umbilical. The missile is still not armed.
4. Enter MC data (target class and type - TOO mode; target number - PB mode).
5. Perform HARM BIT, when able, on all missiles.
6. Check SID class for proper software.

### **INFLIGHT**

1. A/G master mode - SELECT
2. Weapon - SELECT
3. Delivery mode - SELECT

## **TOO Mode**

1. SCAN option - SELECTED (if desired)
2. LIMIT option - SELECTED (if desired)
3. Range known/unknown - SELECTED (as desired)
4. Target class - SELECTED

### **To select desired priority target -**

5. HARM sequence (RAID) button - PRESS

### **To hand off priority target data to HARM -**

6. Cage/uncage button - PRESS

### **When target is within launch range -**

7. Master arm switch - ARM
8. Weapon release button - PRESS

## **PB Mode**

1. Target - DESIGNATE
2. Pullup option - AS REQUIRED
3. Velocity vector - ON ASL
4. Master arm switch - ARM

### **For an on-angle launch, when release cues appear on HUD and A/C RNG cue appears on HARM display**

5. Weapon release button - PRESS
6. Initiate a pullup while maintaining velocity vector on ASL
  - a. Release occurs when aircraft pullup cue intersects velocity vector

**For a hot pickle launch, when HARM pullup cue is coincident with the velocity vector on HUD and HRM RNG cue appears on HARM display -**

5. Weapon release button - PRESS
  - a. Release occurs at pickle

**SP Mode**

1. Observe SP target on RWR
2. LIMIT option - SELECTED (if desired)

**To select desired priority target -**

3. HARM sequence (RAID) button - PRESS

**When a target is within launch range -**

4. Master arm switch - ARM
5. Weapon release button - PRESS

**SP PLBK Mode**

1. Observe self-protect pullback indication on RWR
2. HARM OVRD option - DESELECTED

**To select desired priority target -**

3. HARM sequence (RAID) button - PRESS

**When target is within launch range -**

4. Master arm switch - ARM
5. Weapon release button -PRESS

## **AGM-88 SIMULATED ATTACK**

1. A/G master mode - SELECT
2. Weapon - SELECT
3. Delivery mode - SELECT
4. Master arm switch - SAFE
5. SIM option - SELECT
6. Delivery mode - SELECT

### **TOO Mode**

1. SCAN option - SELECTED (if desired)
2. LIMIT option - SELECTED (if desired)
3. Range known/unknown - SELECTED (as desired)
4. Target class - SELECTED

### **To select desired priority target -**

5. HARM sequence (RAID) button - PRESS

### **To hand off priority target data to HARM -**

6. Cage/uncage button - PRESS
7. Master arm switch - simulate ARM (do not ARM unless required/desired for chaff/flare utilization)

### **When target is within launch range -**

8. Weapon release button - PRESS

### **PB Mode**

1. Enter target number via UFC
2. Target - DESIGNATE
3. Pullup option - AS REQUIRED
4. Velocity vector - ON ASL
5. Master arm switch - simulate ARM (do not ARM unless required/desired for chaff/flare utilization)

**For an on-angle launch, when release cues appear on HUD and A/C RNG cue appears on HARM display -**

6. Weapon release button - PRESS
7. Initiate a pullup while maintaining velocity vector on ASL
  - a. Simulated release occurs when aircraft pullup cue intersects velocity vector

**For a hot pickle launch, when the HARM pullup cue is coincident with the velocity vector and HRM RNG cue appears on HARM display -**

6. Weapon release button - PRESS
  - a. Simulated release occurs at pickle

### **SP Mode**

1. Observe SP target on RWR
2. LIMIT option - SELECTED (if desired)

**To select desired priority target -**

3. HARM sequence (RAID) button - PRESS

**When a target is within launch range -**

4. Master arm - simulate ARM (do not ARM unless required/desired for chaff/flare utilization)
5. Weapon release button - PRESS

### **SP PLBK Mode**

1. Observe self-protect pullback indication on RWR
2. HARM OVRD option - DESELECTED

**To select desired priority target -**

3. HARM sequence (RAID) button - PRESS

**When target is within launch range -**

4. Master arm - simulate ARM (do not ARM unless required/desired for chaff/flare utilization)
5. Weapon release button - PRESS

**AFTER SIMULATED ATTACK**

**NOTE**

If master arm switch - ARM is required (chaff/flare) or is inadvertently selected, ensure master arm switch- SAFE is selected following simulated attack and prior to deselecting SIM.

1. SIM option - DESELECT

<b>ECM EQUIPMENT</b>
----------------------

**ALR-67 RWR PREFLIGHT****NOTE**

With MC OFP 09C or 11C and ALR-67E(V)2 OFP 22, functions of the ALR-67 may be controlled by the dedicated control panel or the EW display. At aircraft power up, control is assigned to the EW display. To use the control indicator to operate the ALR-67, the CTRL option on the ALR-67 data sublevel display must be deselected (unboxed).

**Built-In Test**

1. Power button - ACTUATE ON
2. Volume, brightness, and intensity controls - SET
3. BIT button - ACTUATE
  - a. Status change tone; first BIT display. Identify threat library alphanumeric character and check that there are no failed units
  - b. Status change tone; second BIT display (if required)
  - c. Special alert tone; threat lights come on; third BIT display
  - d. MA tone; threat lights come on; fourth BIT display
  - e. ML tone; threat lights come on; fifth BIT display
  - f. Sixth, seventh, and eighth BIT displays are sequentially presented

**NOTE**

Actuating ALR-67 BIT pushbutton presents BIT information only, it does not initiate a BIT. The only way to initiate a BIT is to turn the system off and back on again.

4. Power - AS REQUIRED

**Built-In Test (MC OFF 09C or 11C and ALR-67E(V)2 OFF 22)**

1. Power button - ACTUATE ON
2. Volume, brightness, and intensity controls - SET
3. Access EW format - accessed by actuating the EW option on the Tac menu or by actuating the sensor control switch toward the MPCD and toggling through the display cycle (HSI/SA/EW).
4. Select ALR-67 option.

**NOTE**

When the BIT option is selected, BIT pages presented on the EW display are identical to the BIT pages presented on the azimuth indicator.

5. Select BIT option.
  - a. Status change tone; first BIT display. Identify threat library alphanumeric character and check that there are no failed units
  - b. Status change tone; second BIT display (if required)
  - c. Special alert tone; threat lights come on; third BIT display
  - d. MA tone; threat lights come on; fourth BIT display
  - e. ML tone; threat lights come on; fifth BIT display
  - f. Sixth, seventh, and eighth BIT displays are sequentially presented

**NOTE**

Actuating ALR-67 BIT option presents BIT information only, it does not initiate a BIT. The only way to initiate a BIT is to turn the system off and back on again.

6. ALR-67 trackfile criteria - select via SA sensor sublevel
7. Power - AS REQUIRED



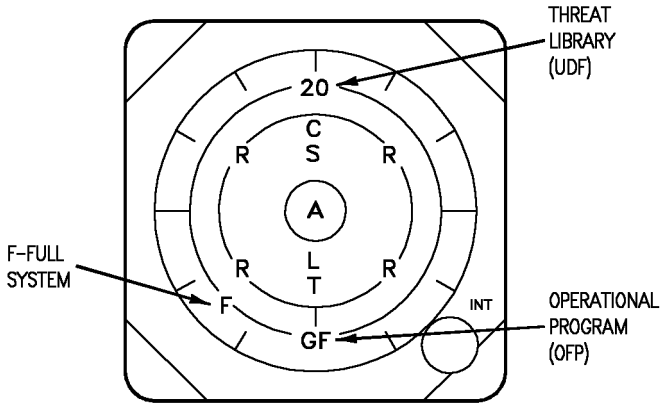
**RWR BIT FAILURES**

<b>SYMBOL</b>	<b>STATUS</b>	<b>SYSTEM IMPACT</b>
A	Analyzer failure	Could be a minor or major problem depending on which components have failed. The system does not have to be shut down.
C	Indicator control panel failure	May not be able to change selected options
F	Full system capability	None
L	Low band failure	System cannot see C & D band threats
R	Quadrant receiver failure	Threat azimuth data is not reliable
G	Display failure	ADU inoperative
T	Thermal overload	System is overheating and should be shutdown if tactically feasible
S	Special failure	Cannot see CW signals
HRM	Interface failure	Cannot talk to HARM

**RWR BIT FAILURES**

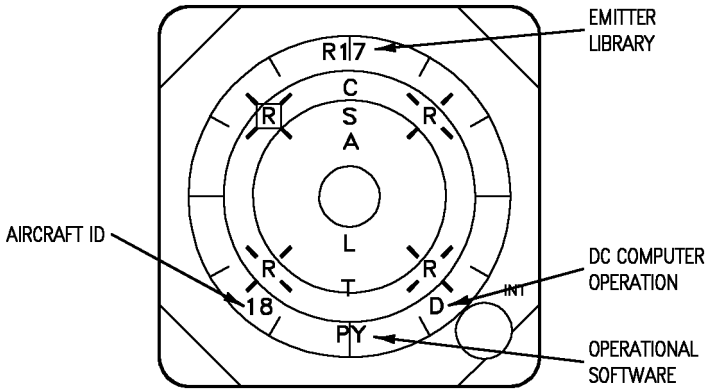
<b>SYMBOL</b>	<b>STATUS</b>	<b>SYSTEM IMPACT</b>
HRMV	Interface video line failure	No real time target updates to HARM
126	Hard interface failure	Cannot talk to ALQ-126B; no jamming enhancements on the ADU
126D	Degraded interface failure	No impact on ALR-67 or ALQ-126B operation
IBU	Interference blanker unit	ALR-67 look through time is reduced. System response times will be longer.

# ALR-67 BIT Display



BEFORE ECP 510 - DISPLAY 1

ALL SYMBOLS NOT LABELED APPEAR ONLY WHEN A FAILURE IS DETECTED.



AFTER ECP 510 - DISPLAY 1

## **ALQ-126 ECM SET PREFLIGHT**

1. ECM mode knob - STBY
  - a. STBY light ON 2 - 4 minutes
  - b. STBY light OFF when warmup complete
2. ECM mode knob - BIT
  - a. GO light ON when ECM set passes self test
  - b. NO GO light ON if ECM set fails self test
3. ECM mode knob - STBY or OFF (as required)



Do not select REC or RPT/XMIT on the carrier.

4. JMR option - SELECT
  - a. JMR - BOXED
  - b. 126B displayed (on line)
  - c. RDY (no line through it)

## **ALE-39 DISPENSING SYSTEM**

### **F/A-18A/C Preflight**

1. External Checks

Dispensing buckets - PRESENT and LOADED

2. Cockpit Checks
  - a. Check all program settings - AS DESIRED
  - b. Ensure buckets have been correctly reset to - NUMBER ONE EJECTION TUBES

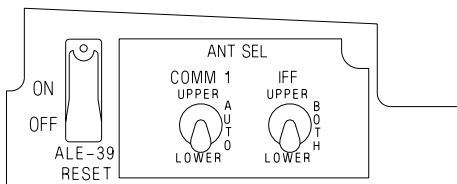
### **F/A-18A/C Inflight**

1. With weight-off-wheels and ALE-39 payload select knob in any position other than OFF, hold the remote reset switch (located on ANTENNA SELECT CONTROL PANEL) to ON for 5

seconds to reset the buckets back to the number one ejection tube.

## NOTE

The remote reset switch resets the buckets back to the number one ejection tubes. Master arm switch must be in ARM (F/A-18 C/D only). This resets the buckets only and has no effect on the program settings.



ANTENNA SELECT CONTROL  
PANEL

ADA534-12-1-021

The reset knob resets the buckets back to the number one ejection tubes. To correctly reset the buckets, the airplane must have ac power (external or internal) applied and the weight-on-wheels switch must be bypassed. Master arm switch must be in ARM (F/A-18C only). With the payload select knob in any position other than OFF, hold the reset knob to RESET for 5 seconds. This resets the buckets only and has no effect on the program settings. The program settings may be changed at any time with or without power applied.



Expendables will be dispensed on deck if throttle switch or any ECM dispense switch is activated with weight-on-wheels switch by-passed and power applied to ALE-39.

**F/A-18B/D Preflight**

1. External Checks

Dispensing buckets - PRESENT and LOADED

2. Cockpit Checks

a. Check all program settings - AS DESIRED

**F/A-18B/D Inflight**

1. With weight-off-wheels and ALE-39 payload select knob in any position other than OFF, hold the reset knob to RESET for 5 seconds to reset the buckets back to the number one ejection tubes.

**NOTE**

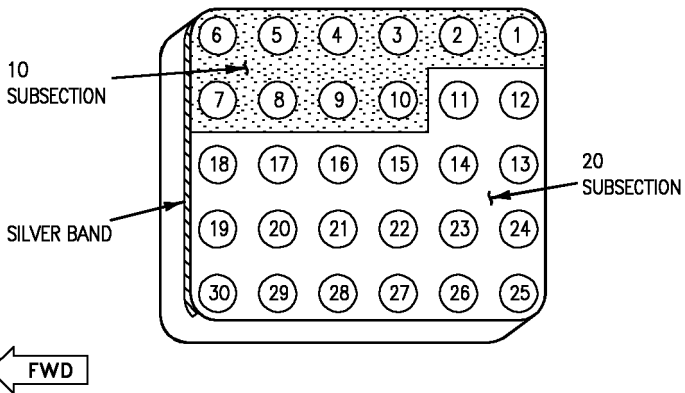
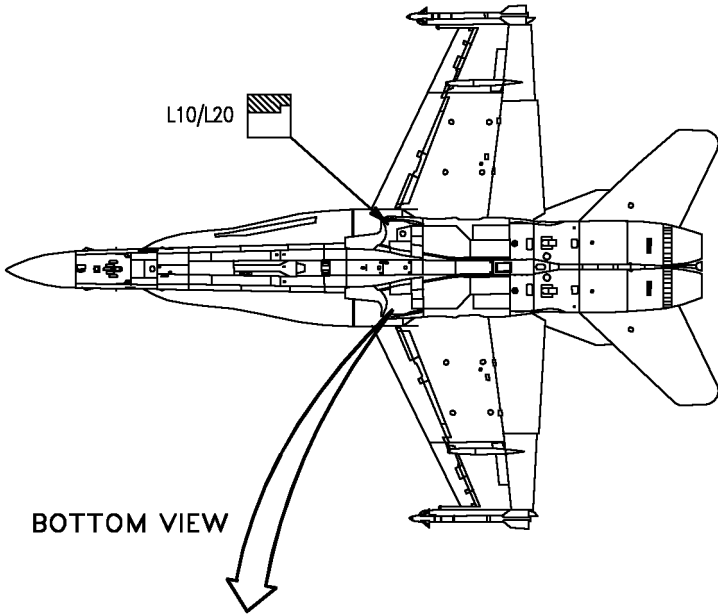
The reset knob resets the buckets back to the number one ejection tubes. Master arm switch must be in ARM (F/A-18D only). This resets the buckets only and has no effect on the program settings. The program settings may be changed at any time.

**ALE-39 PROGRAMMER**

					C	F
B QTY	B INT	S QTY	S INT	QTY	L10	L20
CHAFF				F L A R E	L O A D E D	
JAMMER					RESET	
QTY		INTV		INTV	R10	R20
					F	C

# Exterior Inspection

ALE-39



18AC-TAC-30-(19-1)13-CATI

## **ALE-47 DISPENSING SYSTEM**

### **Preflight**

1. External Checks  
Dispensing buckets - PRESENT and LOADED
2. Internal Checks
  - a. ALE-47 mode option - STBY MODE
  - b. Expendable inventory status is reset to the MDF levels - LOAD option selected on PROG format.
  - c. Arm expendables - ARM format
  - d. Select bingo levels - BINGO format

### **NOTE**

ALE-47 is in STBY mode while on deck and during take-off to prevent dispensing during the time the landing gear is up and locked.

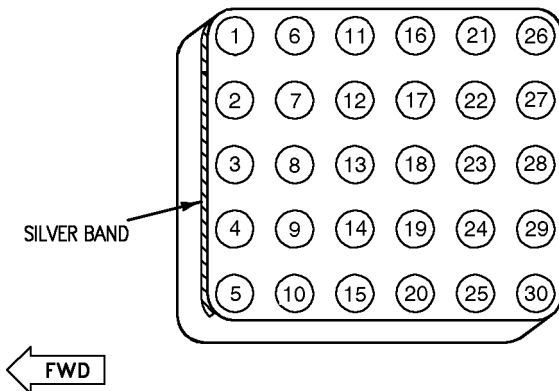
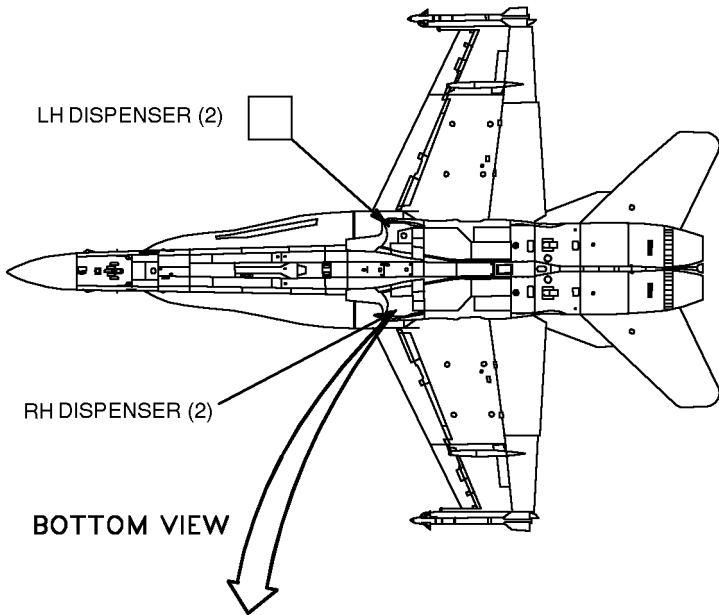
### **Inflight**

1. Check all program settings - AS DESIRED
2. ALE-47 - STBY mode during landing to prevent dispensing during the time the landing gear is up and locked.



# Exterior Inspection

ALE-47

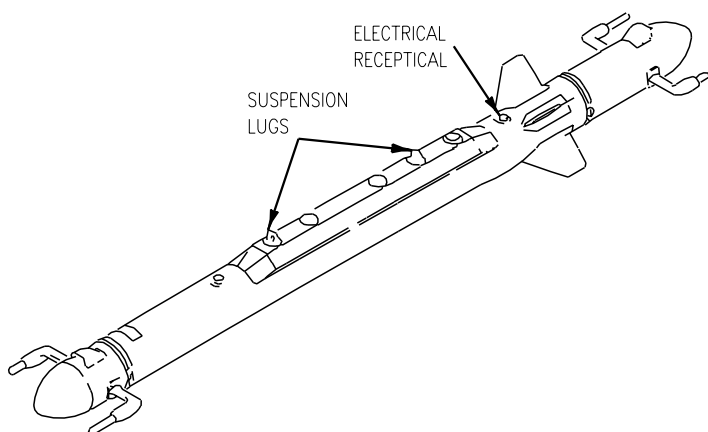


18AC-TAC-30-(19-2)19-CATI

**ALQ-167 PREFLIGHT**

1. Ground safety handles in locked position on loaded stations
2. Sway braces seated
3. Cartridges not installed on AN/ALQ-167 station; cartridge retainers and auxiliary cartridge caps tight (all stations)
4. Adapter cable connected to pod
5. Suspension hooks open on unloaded stations
6. Verify proper code inputs inserted in weapons insertion panel for stores on stations loaded and verify all unloaded station codes are set as required

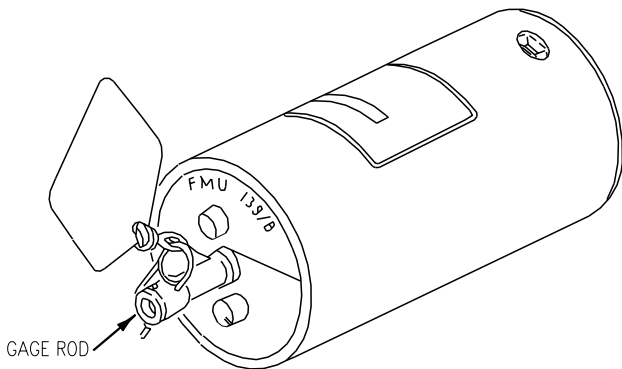
# ALQ-167



18AC-TAC-30-(21-1)16-CATI

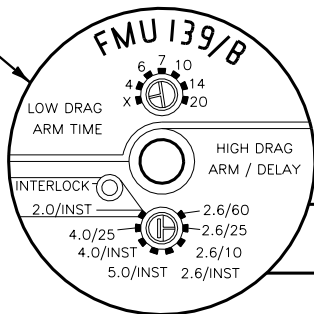


# FUZE INSPECTIONS



NOTE: DISREGARD 2.6 HIGH DRAG ARM TIME LABELING. ONE OF FOUR AUTHORIZED POSITIONS MUST ALWAYS BE SELECTED REGARDLESS OF DELIVERY MODE (LOW/HIGH DRAG)

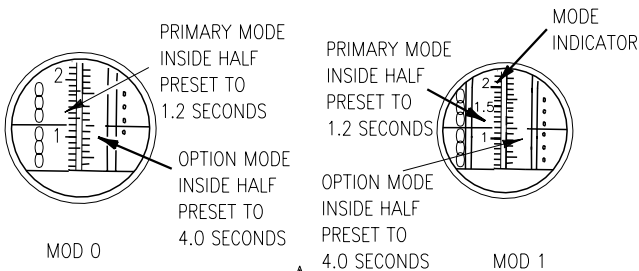
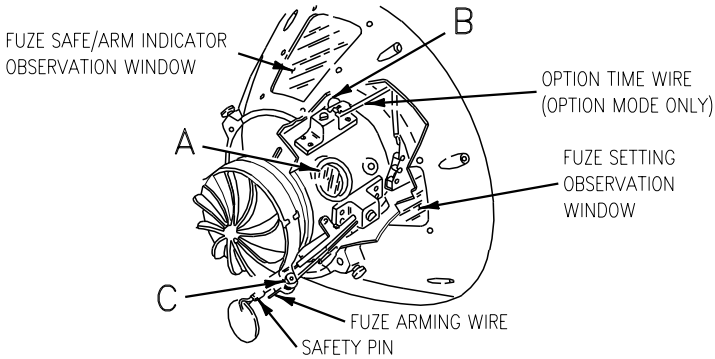
LOW DRAG ARM TIME SWITCH SHOULD ALWAYS BE IN "X" POSITION



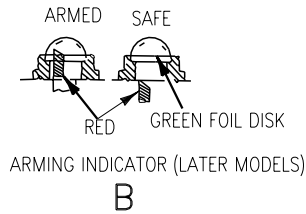
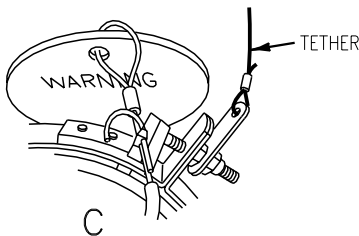
ONLY THESE FOUR POSITIONS ARE AUTHORIZED FOR USE.

## FMU-139 FUZE INSPECTION

# NWP 3-22.5-FA18A/B/C/D PG (Rev. A)

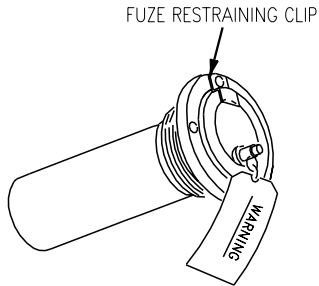


A



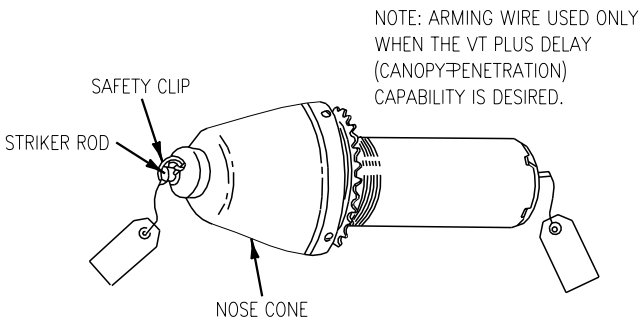
## MK 339 FUZE INSPECTION

18AC-TAC-30-(24-2)16-CATI

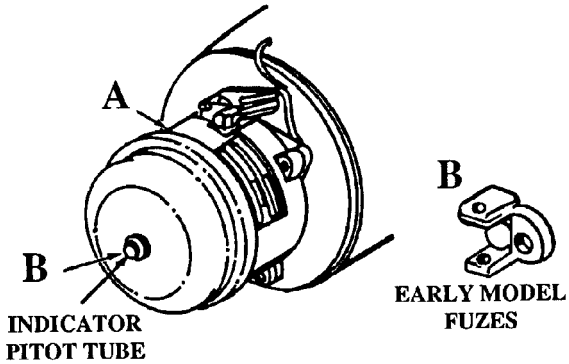
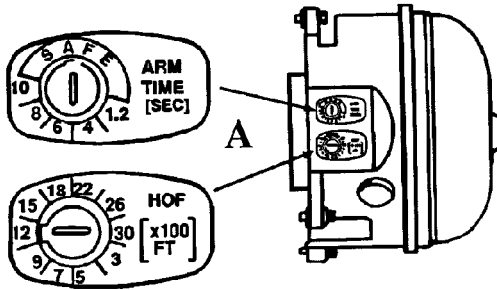


NOTE: RESTRICTED TO TRAINING  
USE IN INERT Mk 80 SERIES AND  
BDU-45 BOMBS ONLY.

### 376 FUZE INSPECTION



### MK 43 TDD INSPECTION

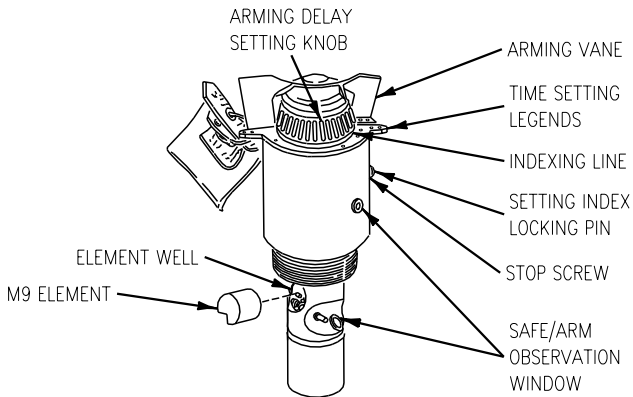


**NOTE**

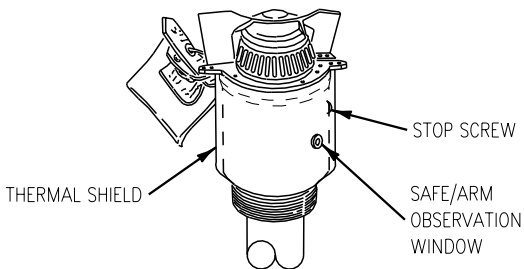
**FUZE ARMED IF RED VISIBLE ON  
EXTENDED INDICATOR PITOT TUBE**

**FMU-140/B FUZE INSPECTION**



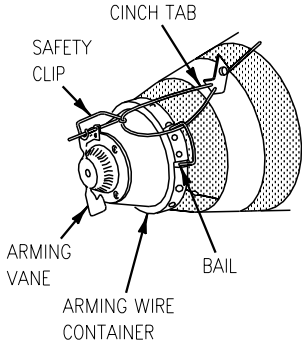


M904E2/E3

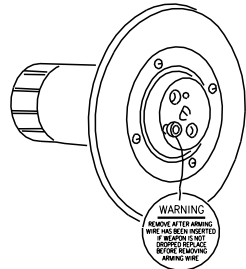


M904E4

## M904 FUZE INSPECTION



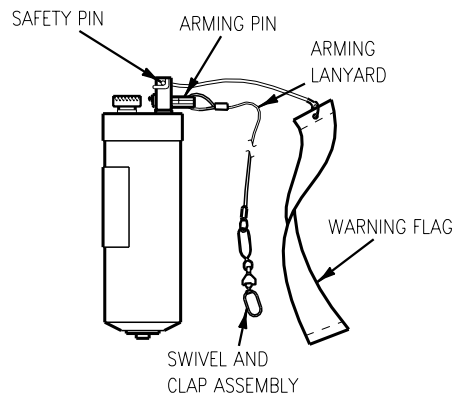
MK 32 ARMING DEVICE



MK 42 FIRING MECHANISM/MK 57 TDD

WARNING  
REMOVE AFTER ARMING.  
WIRE HAS BEEN INSERTED  
IF MECHANISM HAS  
DISPERSED REDUCE  
RISK OF BLEEDING  
ARMING WIRE

## DST/UNDERWATER MINE FUZE INSPECTION



## FMU-143 E/B FUZE INSPECTION

18AC-TAC-30-(24-5)16-CAT1



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