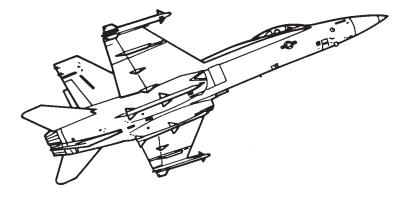
Pocket Checklist

F/A-18C AIRCRAFT

REV: 20220620



Procedures

Systems

APG-73 Radar

TGP JHMCS

A/G Weapons

A/A Weapons

DISCLAIMER

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Chapter 1

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1.1 START-UP

1.1.1 PRE-START

1.	Ejection Seat test	DOWN & ARMED
2.	Harness Lever	FWD
3.	Parking Brake	ENGAGED
4.	Master Arm	SAFE

1.1.2 ENGINE START

1.	Battery	ON
2.	Hyd. Brake	> 3000psi
3.	Fire Test	(a) FIRE TEST TEST A
		(b) BATT cycle OFF then ON
		(c) FIRE TEST TEST B
4.	APU Start	(a) APU Caution Lightverify OFF
		(b) APU Switch ON
		(c) READY Light illuminated (30s)
5.	Right Engine	(a) ENG CRANK R
	Start	(b) R Eng RPM 15-25%
		(c) R ThrottleIDLE
6.	Stabilized Pa-	• IFEI
	rameters	– RPM – 60-65%
		- EGT - < 750C until stable
		• Cautionsnone for ENG 2
		GPWS Voice AlertsCheck
7.	Master Caution	RESET
8.	Displays	(a) Left DDION
		(b) Right DDI ON
		(c) AMPCDON

	ROGLDOKLS	MA-10C K1-V-20220020
9.	UFC	(a) HUD ON (b) ALT Switch RDR (c) ATT Switch AUTO
10.	BLEED AIR Knob	Cycle thru OFF to NORM (shutoff valves closed during fire test)
11.	Left Engine Start	(a) ENG CRANK L (b) L Eng RPM 15-25% (c) L Throttle IDLE
12.	Stabilized Pa- rameters	• IFEI

Cautionsnone for ENG 1L GEN CautionExtinguished

1.1.3 POST-START

1.	Canopy	CLOSED
2.	Start INS Align	(a) INS Selector GND or CV (as required) (b) HSI select STD HDG (if available) (significantly reduces align time to approx. 90s)
3.	RADAR	OPR
4.	FCS Reset	(a) WING FOLD
5.	Lights Test	Check
6.	Hook Bypass	As Required
7.	Flaps	HALF
8.	FCS BIT	(a) BIT Failures press FCS-MC (b) MC1 & MC2 GO (c) FCSA & FCSB PBIT GO (d) FCS BIT Switch press & hold (e) FCS-MC press FCS OSB (f) FCSA & FCSB GO

F/A-18C REV: 20220620 **PROCEDURES** OFF if CV, else ON 9. **ANTI SKID** 10. **Trim PRESS T/O Trim** 11. **PITOT AUTO** 12. **Displays** (a) Left DDI HUD Repeater (b) Right DDI FCS Page **RADALT Warning** 13. **Standby Attitude** 14. UNCAGED Indicator As desired (8000lbs) 15. **Bingo Fuel** 16. **Altimeter** Set **Mission Data** 17. **ENTER** 18. Weapons/Sen-**As Required** sors Verify proper inventory installed 19. **STORES Page** 20. **HMD Alignment** (a) **SUPT/HMD/ALIGN Page** **SELECT** (b) Superimpose **HMD** alignment cross on **HUD/BRU** alignment cross (c) CAGE/UNCAGEPRESS & HOLD until **ALIGN OK Fine Align** (a) With **FA DXDY** displayed, use **TDC** to align azimuth and elevation **HMD** alignment crosses with HUD/BRU alignment cross (b) CAGE/UNCAGEPRESS & RELEASE (c) With FA DROLL displayed, use TDC to align roll axis HMD alignment crosses with **HUD/BRU** alignment cross (d) CAGE/UNCAGEPRESS & RELEASE 21. **OBOGS** ON **Complete INS** 22. **INS Selector** to **NAV** or **IFA** (if available) Align

1	5
•	- 0

(a) **ALR-67 RWR** **ON**

(b) ECM SelectorSTBY
(c) DispenserON (middle)

Defensive Sys-

tems

23.

PE	ROCEDURES	F/A-18C REV: 20220620
24.	Lights	(a) Strobe ON (b) POS Lights BRT (c) LDG/TAXI Lights ON
25.	Network	(a) IFF ON (b) D/L ON , set desired frequency
26.	Parking Brake	DISENGAGE
27.	Chocks	REMOVED

Volume as required

28.

Audio

PROCEDURES

F/A-18C REV: 20220620

1.2 TAKEOFF & LANDING

1.2.1 PRE-TAXI

1.	ANTI SKID	As required • Field – ON • Carrier – OFF
2.	FLAPS	HALF
3.	CHOCKS	REMOVED
4.	LAUNCH BAR	RETRACTED
5.	HOOK BYPASS	As required
6.	PARKING BRAKE	DISENGAGED

1.2.2 TAKEOFF - SHORE

1.	ANTI SKID SPOILER BK	After Lining Up On Runway BOTH (UP)
2.	FLAPS	UP
3.	TRIM	T/O
4.	NWS	LOW GAIN
5.	Takeoff	(a) BRAKES

1.2.3 TAKEOFF - CARRIER

	Lineup	 Wait behind JBD until Catapult is clear Follow Taxi Directors Instructions to line up on Catapult
1.	WING FOLD	(a) WING FOLDSPREAD when directed wait until fully spread (b) WING FOLDLOCK (c) HUD Repeater no WING UNLK caution
2.	FLAPS	HALF
3.	Launch Bar Preparation	(a) LAUNCH BAREXTEND when directed (b) Throttle
4.	Trim	Refer to NOTE below
5.	Speed Brakes	IN
5. 6.	Speed Brakes Final Checks	(a) ThrottleMIL when directed (b) Control Wipeout
		(a) ThrottleMIL when directed
		(a) Throttle
		(a) Throttle

PROCEDURES

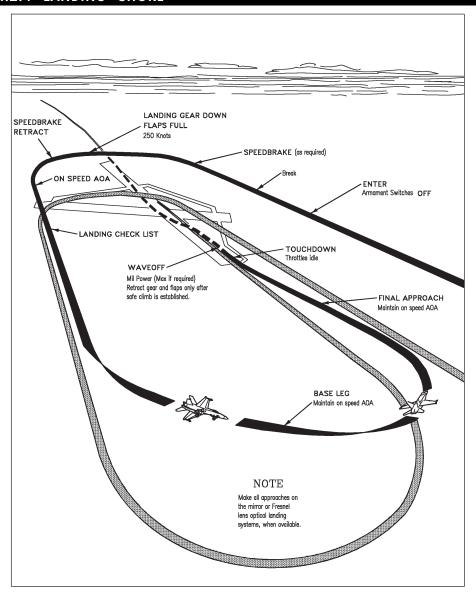
F/A-18C REV: 20220620

NOTE

• Refer to CHKLST page for weight

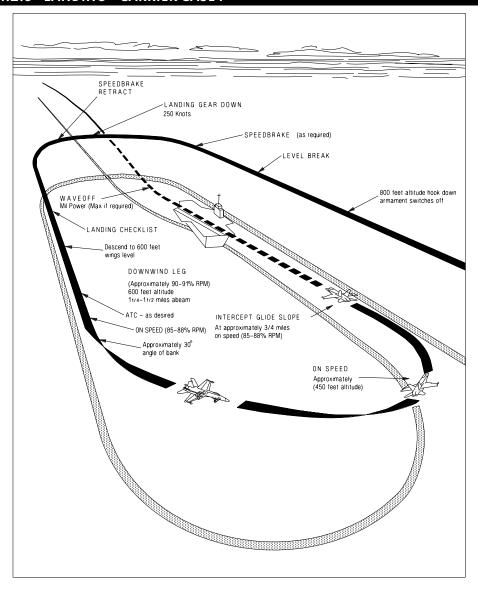
Weight [lbs]	< 44000	44000-48000	> 48000
Trim [deg]	16	17	18
MAX WEIGHT: 51900 lbs			

1.2.4 LANDING - SHORE



Initial Approach	HOOK UP ANTI-SKID ON ALT RDR Airspeed 300-350 KIAS Altitude 800 ft ARM OFF
Initial Break	 Break Interval
Break Turn	 Landing Gear DOWN at 250 KIAS FLAPS FULL at 250 KIAS SPEED BRAKE RETRACT at 250 KIAS
• Downwind	Altitude descend to 600 ft AOA ON-SPEED LANDING CHECKLIST
Final Turn	Abeam Pos. 1-1.2 nmi 90 Deg Position AOA ON-SPEED Altitude 400-500 ft
Intercept Glides- lope	• Distance
• Touchdown	No more than 750 ft/min DO NOT FLARE

1.2.5 LANDING - CARRIER CASE I



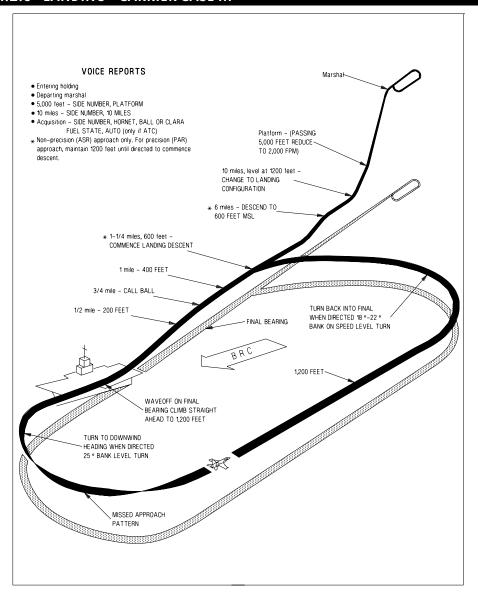
1. Navigation	• TACAN ON and tuned • HSI - TCN - BOXED - CRS - BRC
2. Pattern Entry	 Distance – approx 5 nm Heading – BRC Line Up – Right of CV Airspeed – 300-350 KIAS Altitude – 800 ft
3. Pre-Break	 HOOK ALT RDR RADALT ANTI-SKID HOOK BYPASS CARRIER ARM HSI Zoom Airspeed Altitude BOOWN
4. Initial Break	 Break Interval
5. Break Turn	 Landing Gear DOWN at 250 KIAS FLAPS FULL at 250 KIAS SPEED BRAKE RETRACT at 250 KIAS
6. Downwind	Altitude descend to 600 ft AOA ON-SPEED LANDING CHECKLIST
7. Final Turn	Abeam Pos1-1.2 nmi 90 Deg Position AOAON-SPEED Altitude400-500 ft
8. Intercept Glides lope	• Distance

- 9. Touchdown
- No more than 750 ft/min
- DO NOT FLARE

NOTE

- HSI L wingtip will touch BRC line when 1.2nm abeam
- **HSI** heading to boat is 5 deg behind abeam heading when rounddown visible
- **Tip** during approach turn, do not peak before the 90

1.2.6 LANDING - CARRIER CASE III



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1.2.7 LANDING - ICLS CASE III

Work In Progress

1.3 IN-FLIGHT

1.3.1 A/A REFUELING

Work In Progress

Chapter 2

SYSTEMS

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SYSTEMS

F/A-18C REV: 20220620

2.1 SYSTEMS

2.1.1 ARC-210 RADIO

• ARC-210	 Provides T/R of AM/FM in 30-399.975MHz Contains 2 radios: COMM1 & COMM2 Controlled from UFC
Power On	Rotate Vol knobs of COMM1 & COMM2
Preset Channels	 M: Manual 1-20: Preset Channels G: Guard (243.000) C: Cue Channel for SINCGARS S: Maritime (Sea)
OSB 1: GRCV	Toggles Guard Receive
OSB 2: SQCH	Toggles Squelch
OSB 3: CPHR	Toggles Cipher modes (plain, cipher, delay) (not implemented)
• OSB 4: AM / FM	Selects Frequency Band (only visible when in AM/FM overlap)
OSB 5: MENU	Menu Button
Manually Set Freq	(a) Set desired channel with channel knob(b) Enter desired Frequency on UFC, ENT(c) Confirm all options as desired

2.1.2 AFCS - MODES

• ATTH	Attitude Hold: Aircraft will maintain existing pitch attitude and +/- 70 deg roll attitude
• BALT	Barometric Altitude Hold: Aircraft will maintain current heading and barometric altitude 0-70000 ft
• HSEL	Heading Select: Aircraft will turn and maintain heading selected on HSD
• RALT	Radar Altitude Hold: Aircraft will maintain current heading and radar altitude 0-5000 ft

2.1.3 AFCS - PROCEDURES

• Conditions	Stick: Centered HSD: heading selected (if required)
Activation	(a) Press A/P OSB (b) Select Submode OSB
• Deactivation	press Paddle Switch

2.1.4 ATC - APPROACH MODE

• Conditions	Flaps: HALF/FULL TE Flaps: >27 deg
• Activation	ATC button
• Effect	Computer modulates thrust to maintain on speed AOA, pilot controls flightpath with pitch command
Deactivation	Any of the following: • ATC button • Flaps: AUTO • Weight On Wheels • Bank Angle > 70deg • Sensor Failure

2.1.5 ATC - CRUISE MODE

• Conditions	• Flaps: AUTO
• Activation	ATC button
• Effect	Computer modulates thrust to maintain existing airspeed
• Deactivation	ATC buttonFlaps: HALF/FULLSensor Failure

2.2 NAVIGATION

2.2.1 WAYPOINT

• Waypoints	Pre-planned navigational points of reference to follow on route to area of operation Maximum: 60
 Activate WAY- POINT Nav 	Press WYPT OSB on HSI
Select Sequence	e press SEQ# OSB
 Display Lines 	box SEQ on HSI
HSI Info (Top Right)	Bearing (deg) / Distance (Nm)
	Time-to-Go to Waypoint (min:sec)
Automatic Sequencing	box AUTO on HSI
	Waypoint will automatically advance

2.2.2 WAYPOINT - ADD

1.	DATA Page	Press DATA OSB on HSI verify correct sequence is selected
2.	Activate UFC	press SEQUFC OSB
3.	Insert Waypoint	(a) press INS OSB on UFC (b) input desired number, ENT
4.	Edit Coordinates	As described in Section 2.2.4 or 2.2.5

2.2.3 WAYPOINT - REMOVE

1.	DATA Page	Press DATA OSB on HSI verify correct sequence is selected
2.	Activate UFC	press SEQUFC OSB
3.	Delete Waypoint	(a) press DEL OSB on UFC (b) input desired number, ENT

2.2.4 WAYPOINT - EDIT LAT/LONG

1.	DATA Page	Press DATA OSB on HSI
2.	Select Waypoint	using Increment/Decrement OSBs
3.	Activate UFC	(a) press UFC OSB (b) press POSN OSB
4.	Edit Coordinates	(a) Input Latitude, ENT (b) Input Longitude, ENT

2.2.5 WAYPOINT - EDIT GRID COORDS

1.	DATA Page	Press DATA OSB on HSI
2.	Select Waypoint	using Increment/Decrement OSBs
3.	Activate UFC	(a) press UFC OSB (b) press GRID OSB (c) HSI now displays Grid Menu
4.	Edit Coordinates	(a) Verify TDC slaved to HSI (b) Press & Hold TDC DEPRESS to slew (c) Release TDC when over desired square (d) Input remaining coords on UFC

2.2.6 WAYPOINT - PRECISE COORDS

 Normal Coordinates 	LAT/LONG: deg/min/secGRID: 6 digits
Precise Coordinates	LAT/LONG: deg/min/sec.xxGRID: 10 digits
Activation	(a) press DATA OSB on HSI (b) box PRECISE

2.2.7 MARKPOINT

 Markpoint Used to mark a point of interest Maximum: 9 	
iviaximum. 9	

SYSTEMS F/A-18C REV: 20220620

 Activate Navigation 	WYPT boxed on HSI M# selected with Increment/Decrement OSBs
Examine MKPT Data	press DATA OSB on HSI and select Markpoint as required
Employment	(a) Select desired markpoint with Increment / Decrement OSBs (b) Box WPDSG OSB to designate markpoint as the target point

2.2.8 MARKPOINT - ADD

Overfly Method	(a) Verify no target designated(b) press MK# OSB on HSI/SA to create Markpoint on current location
Target Designate Method	(a) Designate Target with sensor as required (b) Press MK# OSB on HSI/SA to create Mark- point on current designation
• Note	After MK9 has been created the next Markpoint will overwrite MK1

2.2.9 ADF

1.	ADF Switch	To desired COMM
2.	Matching COMM	Set ADF frequency as required (FM)
3.	HSI	Circle will appear indicating direction of ADF beacon on compass rose

2.2.10 TACAN

•	TACAN	Tactical Air Navigation
		Provide direction & distance to beacon

SYSTEMS		F/A-18C	REV:	20220	620
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UFC Activation	 (a) Press TCN OSB and cycle to ON (b) Verify T/R mode active (c) Input channel ##, EN (d) Set X/Y as required (e) Set A/A mode if required
HSI Activation	(a) Box TCN OSB (b) Set CRS as required
TACAN Data	press DATA OSB on HSI while TCN boxed to view TACAN Database of all stations and their coordinates

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2.2.11 AN/ALR-67 RWR

	SUR	FACE
U S T		Unknown Search Radar ATC
3 6 8	SA-3 SA-6 SA-8	"Goa" "Gainful" "Gecko"
10 11 12 13	SA-10 SA-11 SA-12 SA-13	"Grumble" "Gadfly" "Gladiator" "Gopher"
40 48 49		Spruance Class Nimitz Class Perry Class
HK PT	MIM-23 MIM-104	Hawk Patriot
	AIRB	ORNE
U M		Unknown Active missile
11 13	F-111 C-130	Aardvark Hercules
14 15 16	F-14 F-15 F-16	Tomcat Eagle Fighting Fal- con
17	C-17	Globemaster III
18	F/A-18	Hornet
19 21 22 23 24 25	MiG-19 MiG-21 Tu-22 MiG-23 Su-24 MiG-25	"Farmer" "Fishbed" "Blinder" "Flogger" "Fencer" "Foxbat"
29	MiG-29 Su-27 Su-30 Su-33	"Fulcrum" "Flanker" "Flanker-C" "Flanker-D"

31 34 39	MiG-31 Su-34 Su-25M	"Foxhound" "Fullback" "Frogfoot"
52	B-52	Stratofortress
76 78 AN	IL-76 IL-78 AN-26B AN-30M	"Candid" "Midas" "Curl" "Clank"
B 1	B-1	Lancer
BE BF BJ	Tu-95 Tu-22 Tu-160	"Bear" "Backfire" "Blackjack"
E2 E3	E-2 E-3	Hawkeye Sentry
F4 F-5	F-4 F-5	Phantom Tiger
НХ	Ka-27	"Helix"
KC	KC-135	Stratotanker
KJ M2	KJ-2000 Mirage 2k	"Mainring"
S3 SH	S-3 SH-60	Viking Seahawk

2.2.12 AN/ALE-47 ACMDS

• ACMDS	Airborne Countermeasures Dispenser System
• Conditions	Master Arm: ONDISPENSER Switch: ON (MIDDLE)ALE-47 Mode: not STBY
• Self-Test	Once airborne ALE-47 enters SF TEST before cycling to STBY
Set Mode	MODE OSB with ALE-47 Boxed
Program Creation	(a) Box ALE-47 OSB (b) Press ARM OSB (c) Press CHAFF/FLAR OSBs, set # (d) press RPT OSB, set # repetitions (e) press INT OSB, set interval (f) press SAVE OSB to save program • Note: Use INCREMENT / DECREMENT OSBs to change values
Activation	 Dispense Switch: AFT activates selected program Dispense Switch: FWD activates program 5 by default, can be cycled with STEP OSB

2.2.13 AN/ALE-47 ACMDS - MODES

• MAN	Manual: Program can be stored and edited, Chosen by pilot
• AUTO	Automatic: ALE-47 chooses when and what countermeasures to deploy Very Wasteful
• S/A	Semi-Automatic: ALE-47 chooses program. Pilot controls release
• STBY	Standby Mode

2.2.14 AN/ALQ-165 ASPJ

SYSTEMS F/A-18C REV: 20220620

• OFF	Turns off ECM Pod
• STBY	Standby Mode
• BIT	ECM jammer pod Build-In-Test
• REC	 Receive Mode: Jammer is passive Collects information on detected radars Does NOT transmit jamming signal
• X-MIT	Transmit Mode: Jammer is active ECM pod will automatically transmit jamming signal when radar lock detected on own aircraft When ASPJ is actively jamming own radar will be unavailable

2.2.15 DATALINK

Work In Progress

2.2.16 IFF

Work In Progress

2.2.17 SA PAGE

Work In Progress

Chapter 3

AN/APG-73 RADAR

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3.1 RWS - RANGE WHILE SEARCH

3.1.1 RWS

Range While Scan	Default A/A Radar Mode Long range BVR mode. Antenna follows designated search pattern and displays all tracks discovered in each sweep
Sensor Select Switch	 FWD: Switch to ACM Boresight AFT: Assign TDC to AMPCD LEFT: Assign TDC to left DDI RIGHT: Assign TDC to right DDI

3.1.2 RWS - LTWS

•	Latent Track While Scan	 RWS Submode Allows HAFU symbology for contacts and integration of offboard trackfiles
•	Activation	DATA subpage on Radar Page
•	HAFU Symbology	 Only displayed if TDC cursor is over trackfile or trackfile is L&S or DT2 Offboard only tracks always displayed as HAFU Launch acceptable ranges displayed for L&S and DT2
•	IFF Interrogation	Automatically when target under cursor

3.2 TWS - TRACK WHILE SCAN

3.2.1 TWS - DESIGNATION

• Conditions	 TWS selected TDC slaved to current radar screen
• L&S (Primary Target)	TDC DEPRESS while over trackfile
Cycle L&S	UNDESIGNATE Button (no DT2 designated)
• DT2 (Secondary Target)	TDC DEPRESS while over second trackfile
Swap L&S DT2	UNDESIGNATE Button
STT Lock	TDC DEPRESS again over L&S trackfile

3.2.2 TWS - SCAN CENTERING METHODS

• MAN	Manual: Azimuth centered on TDC cursor. Elevation can also be manually manipulated
• AUTO	Automatic: Azimuth, Elevation centered on L&S trackfile. If L&S trackfile lost returns to MAN
• BIAS	TDC DEPRESS on empty area to center azimuth there. Elevation controlled manually. Allows TDC to move separately from scan azimuth

3.2.3 TWS - SCAN RAID

•	SCAN RAID Mode	 22 deg, 3 bar scan centered on L&S Radar will attempt to find multiple targets out of single target
•	Conditions	L&S trackfile selected
•	Activation	RAID buttonRAID OSB

- Deactivation
- RAID deselect
- RSET OSB
- UNDESIGNATE button
- L&S lost

3.2.4 TWS - EXP

•	EXP Mode	10nm x 20 deg centered around L&S
•	Conditions	L&S trackfile selected
•	Activation	EXP OSB
•	Deactivation	EXP OSB RSET OSB L&S lost

3.3 ACM - AIR COMBAT MANEUVERING

3.3.1 ACM - BST

 Boresight 	 ± 1.7 deg vertical ± 3.3 deg azimuth Range: 10nm
• Conditions	Master Mode: A/A HMD: OFF
• Activation	SCS: FWD (enters BST)
• Deactivation	UNDESIGNATE button

3.3.2 ACM - VACQ

Vertical Acquis.	-13 deg to 46 deg vertical6 deg azimuthRange: 5nm
• Conditions	Master Mode: A/AHMD: OFF
Activation	(a) SCS: FWD (enters BST) (b) then AFT (enters VACQ)
• Deactivation	UNDESIGNATE button

3.3.3 ACM - WACQ

 Caged Wide Acquis. 	-9 deg to +6 deg vertical60 deg azimuth
 Uncaged Wide Acquis. 	NOT IMPLEMENTED
 Conditions 	Master Mode: A/AHMD: OFF
Activation	(a) SCS: FWD (enters BST) (b) then LEFT (enters WACQ)
Toggle Mode	CAGE/UNCAGE
• Deactivation	UNDESIGNATE button

3.3.4 ACM - GACQ

Gun Acquisition	-14 deg to +6 deg vertical20 deg azimuth
• Conditions	Master Mode: A/A HMD: OFF
• Activation	Automatically enabled upon guns selection
• Deactivation	UNDESIGNATE button

3.4 LOCK ACQUISITION

3.4.1 STT

• Conditions	Master Mode: A/ATDC slaved to current radar scree
RWS Designation	TDC DEPRESS to STT
LTWS Designa- tion	TDC DEPRESS to designate L&S
	second TDC DEPRESS to STT
TWS Designation	TDC DEPRESS to designate L&S second TDC DEPRESS to STT
Undesignate	UNDESIGNATE button

3.4.2 AACQ

 Automatic Acquisition 	Fast method to acquire lock from BVR mode
• Conditions	Master Mode: A/ATDC slaved to current radar screenRadar not in an ACM mode
• Designation	SCS towards radar screen
• Deactivate	SCS AFT

3.4.3 JHMCS

• LHACQ	Long Range Helmet Acquisition: 40nm
• HACQ	Helmet Acquisition: 10nm
• Conditions	Master Mode: A/AHMD: BRT
LHACQ Activa- tion	SCS: FWD long (>0.8s)
HACQ Activation	SCS: FWD short (<0.8s)
Deactivate	SCS AFT

3.5 MAP

3.5.1 MAP

• Conditions	Radar: OPR
• Activation	Master Mode: A/Gor SURF OSB on RDR ATTK page
PEN	Scans small area on ground
• FAN	Broader/quicker scan, less defined image • narrow in azimuth, broad in elevation

3.5.2 MAP - DESIGNATION

• Conditions	Master Mode: A/GTDC slaved to current radar screen
Designation	 TDC DEPRESS while over desired location Range will auto adjust Cross marks designated point on Radar Diamond marks designated point on HUD
• Zoom	using EXP1, EXP2, EXP3 modes
• Undesignation	UNDESIGNATE button

3.5.3 MAP - EXP1

• EXP1	 Lowest resolution expanded mode Range: 40nm Azimuth: 45deg Not ground stabilized unless designation exists (snowplow)
• Conditions	Radar Mode: MAP TDC slaved to current radar screen

• Activation	 (a) EXP1 OSB (b) Press & hold TDC DEPRESS (c) Slew to desired region (d) Release TDC DEPRESS Range will auto adjust
FAST Option	Boxing FAST scan option doubles radar's rate of scan for approximately half the scan quality
Doppler Shift	Area directly in front and at extreme edges of radar not visible
• Deactivation	UNDESIGNATE button

3.5.4 MAP - EXP2

•	EXP2	 Next higher resolution from EXP1 Range: 40nm Ground stabilized regardless if designation exists unless outside of radar gimbal limits
•	Conditions	Radar Mode: MAPor Radar Mode: EXP1TDC slaved to current radar screen
•	Activation	 (a) EXP2 OSB (b) Press & hold TDC DEPRESS (c) Slew to desired region (d) Release TDC DEPRESS Range will auto adjust
•	FAST Option	Boxing FAST scan option doubles radar's rate of scan for approximately half the scan quality
•	Doppler Shift	Area directly in front and at extreme edges of radar not visible
•	Deactivation	UNDESIGNATE button

3.5.5 MAP - EXP3

•	EXP3	 Synthetic-Aperture Radar (SAR) Map Range: 30nm Ground stabilized even w/o designation. 1.2 × 1.2nm, constant area and resolution regardless of range
•	Conditions	Radar Mode: MAPor Radar Mode: EXP1/EXP2TDC slaved to current radar screen
•	Activation	(a) EXP3 OSB(b) Press & hold TDC DEPRESS(c) Slew to desired region(d) Release TDC DEPRESSRange will auto adjust
•	FAST Option	Boxing FAST scan option doubles radar's rate of scan for approximately half the scan quality
•	Doppler Shift	Area directly in front and at extreme edges of radar not visible
•	Deactivation	UNDESIGNATE button

3.5.6 MAP - EXP DESIGNATION

• Conditions	Radar Mode: EXP (EXP3 recommended)TDC slaved to current radar screen
• Activation	(a) Press & hold TDC DEPRESS (b) Slew to desired spot (c) Release TDC DEPRESS to designate
• Symbology	 Range will auto adjust Cross marks designated point on Radar Diamond marks designated point on HUD
• TGP	Targeting pod will automatically slave to designated point if FLIR ON and TGP unstowed
• Deactivation	UNDESIGNATE button

3.5.7 GMT

GMT Mode	Ground Moving Target radar mode scans for highlights & moving targets through doppler shift. Trackfiles displayed as bricks
• Conditions	RDR: OPRMaster Mode: A/G
• Activation	press MAP OSB from A/G MAP pag
Interleaved Option	Press INTL OSB
	GMT & MAP modes interleaved, mode is GMT/MAP

3.5.8 GMT - GMTT

• GMTT	Ground Moving Target Track Range: 10nm
• Conditions	Master Mode: A/GTDC slaved to current radar screenRadar Mode: GMT
Activation	Slew TDC over desired target SCS: Towards current radar screen to command acquisition
• Symbology	 Radar page: brick with motion vector, speed, & heading HUD: diamond point can be used/slaved to by other sensors
• Deactivation	UNDESIGNATE Button

3.5.9 SEA

•	SEA Mode	SEA radar mode scans for highlights & moving naval targets through doppler shift. Trackfiles displayed as bricks. Additional filtering applied & scan rates reduced
•	Conditions	RDR: OPRMaster Mode: A/G
•	Activation	press MAP OSB from A/G MAP pag

Interleaved Option

Press INTL OSB

GMT & MAP modes interleaved, mode is SEA/MAP

3.5.10 SEA - TARGET TRACKING

• Conditions	 Master Mode: A/G TDC slaved to current radar screen Radar Mode: SEA
 Activation 	(a) Slew TDC over desired target (b) SCS: Towards current radar screen to command acquisition
• Symbology	 Radar page: brick with motion vector, speed, & heading HUD: diamond point can be used/slaved to by other sensors
Harpoon Conditions	Master Mode: A/GTarget LockedHPD Mode: R/BL
• Deactivation	UNDESIGNATE Button

Chapter 4

TGP & JHMCS

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4.1 AAQ-28 LITENING II

4.1.1 CONTROLS

Display Selection	SCS: towards Targeting pod display	
Toggle PTRK/ATRK	SCS: towards Selected Display	
• Zoom	Radar Elevation Control Zoom OSBs	
 Toggle Wide/Nar FOV 	RAID/FLIR Button shortNAR/WIDE OSB	
Toggle CCD/FLIR	RAID/FLIR Button long FLIR/CCD OS	
Slew Reticle	TDC Slew	
• Designate	TDC DEPRESS	
Undesignate	NWS/UNDESIGNATE Button	
Toggle LST	CAGE/UNCAGE Button	
• Lase	TRIGGER if TRIG mode boxed	

4.1.2 POINTING METHODS

• VVSLV	FLIR slaved to line of sight of velocity vector
• Snowplow	Default mode when no Target designated
Stabilized Point- ing	Entered when target designated from Snow- plow or cycled from ATRK/PTRK
Waypoint Slaving	Available using HSI (TGP snaps to WYPT)
• ATRK	Tracks specific area. Best for fixed targets
• PTRK	Tracks specific Point. Best for moving targets

4.1.3 POINTING METHODS - VVSLV

• VVSLV	FLIR slaved to line of sight of velocity vector
• Conditions	TDC slaved to current FLIR page

 Activation 	Press UNDESIGNATE twiceor press VVSLV OSB on FLIR page
• RTCL	Box RTCL OSB to display TGP reticle
 Designation 	TDC DEPRESS

4.1.4 POINTING METHODS - SNOWPLOW

• Snowplow	Default mode when no Target designated0 deg left/right-8 deg down
• Conditions	TDC slaved to current FLIR page
• Activation	Press UNDESIGNATE twice to select VVSLV & unstow TGP Press UNDESIGNATE twice to deselect VVSLV
• Designation	TDC DEPRESS

4.1.5 POINTING METHODS - STABILIZED POINTING

•	Stabilized Point- ing	FLIR can be slewed freely. Designated target is constantly updated to current location. Ground stabilized
•	Activation	Entered automatically when Target designated from Snowplow Cycled to from Auto Track or Point Track
•	Designation	Constantly updated

4.1.6 POINTING METHODS - WAYPOINT SLAVED

 Conditions 	TDC slaved to current FLIR pageHSI: Desired waypoint selectedHSI: WYPT boxed on
• Activation	HSI: press WPSDG to designate waypoint as target and slave TGP
• Slew	TDC slew to adjust TGP

4.1.7 POINTING METHODS - AREA TRACK

• Conditions	TDC slaved to current FLIR page
• Activation	1. Unstow TGP with VVSLV 2. SCS towards FLIR page to toggle ATRK/PTRK
• Slew	Not possibe in Area Track
• Designation	TDC DEPRESS
• Deactivation	Press UNDESIGNATE to revert to Snowplow

4.1.8 POINTING METHODS - POINT TRACK

 Conditions 	TDC slaved to current FLIR page
• Activation	Unstow TGP with VVSLV SCS towards FLIR page to toggle ATRK/PTRK
• Slew	Not possibe in Point Track
Designation	TDC DEPRESS
Deactivation	Press UNDESIGNATE to revert to Snowplow

4.1.9 POINTING METHODS - TGP OFFSET

• Conditions	• In ATRK/PTRK
• OFFSET	TDC DEPRESS to activate OFFSET
• Designation	TDC DEPRESS again to designate Offset Cursor as new Target
FLIR to Cursor	SCS in direction of FLIR page to snap TGP to location of Offset Cursor (while in PTRK)

4.1.10 START-UP & LASING

TGP & JHMCS	F/A-18C	REV: 20220620
كران والمراجع والمراجع والمراجع		

1.	Start-Up	(a) FLIR Switch: STBY(b) Open FLIR page, monitor warm-up(c) FLIR Switch: ON when STBY displayed(d) Confirm mode displays OPR
2.	Unstow	(a) Select VVSLV (b) Unselect VVSLV to enter Snowplow
3.	DDI	Contrast & Brightness as required
4.	LTD/R	(a) ARM (b) Confirm L ARM indication
5.	TDC	Slew to Target
6.	Zoom	as required (WIDE/NAR)
7.	Camera Mode	as required (CCD/FLIR)
8.	Pointing Method	as required
9.	Laser Code	(a) Press UFC OSB (b) Press LTDC, enter desired code (c) Press ENT
10.	Designate Target	TDC DEPRESS (will slave A/G weapons to TGP)
11.	Lasing	TRIG boxed: press & hold trigger to laseTRIG unboxed: AUTO lasing

4.1.11 LASER SPOT TRACKER (LST)

• Conditions	Master Mode: A/GTGP: ONLST/NFLR: ON
Set Laser Code	UFC OSB on FLIR page Press LSTC, enter Code on Keypad, ENT
Begin Search	Set TGP to Snowplow, slew to vicinity of laser Press LST OSB on FLIR page, or press CAGE/UNCAGE
• Searching	FLIR image blank LST flashes on FLIR page

4.1.12 LASER MARKING

Note CANNOT be used for weapons guidance, only visible in NVG

	, ,	
1.	TPOD on and ready	
2.	LTD/RARM	
3.	SCS press in direction of FLIR to focus	
4.	VVSLV press UNDESIGNATE twice rapidly to select vel vector slave mode (or press VVSLV OSB)	
5.	Snowplow press UNDESIGNATE twice rapidly to select snowplow mode(or press VVSLV OSB to deselect)	
6.	TDCslew to target	
7.	TDCdepress to designate target	
8.	TRIGboxed	
9.	MARKboxed, activates M-Arm	
10.	Laser press TRIGGER to mark	
	again to cease marking	
1 10		
	A/A POINT TRACK	
1.	A/A POINT TRACK TPOD	
1. 2.	A/A POINT TRACK TPOD	
1. 2.	A/A POINT TRACK TPOD	
1. 2. 3.	A/A POINT TRACK TPOD	
1. 2. 3. 4.	A/A POINT TRACK TPOD	
1. 2. 3. 4.	A/A POINT TRACK TPOD	
1. 2. 3. 4. 5.	A/A POINT TRACK TPOD	
1. 2. 3. 4. 5. 6. 7.	A/A POINTTRACK TPOD	
1. 2. 3. 4. 5. 6. 7. 8.	A/A POINT TRACK TPOD	

To slave radar to TPOD

1.	Radar		• • • •	• • • • •	 	• • • • • • • • • • • • • • • • • • • •	OPR
2.	Point Trac	k			 		acquired

11. Dump TargetSCS towards FLIR display

3. FLIR Pagepress SLAVE OSB

4.1.14 A/A RADAR SLAVING

1.	TPODon & ready
2.	Radar OPR
3.	Master Mode
4.	R DDIRDR ATTK page
5.	L DDIFLIR page
6.	SCStowards RDR ATTK page
7.	Radar Lockacquired
8.	RRSLV OSBpress, slaves TPOD to radar
9.	SCStowards FLIR page
10.	Zoom as desired
11.	FLIR/CCD Modeas desired
12.	SCS towards FLIR page to attempt Point Track

4.2 ASQ-228 ATFLIR

4.2.1 CONTROLS

•	Display Selection	SCS: towards Targeting pod display	
•	Toggle SCENE/AUTO	SCS: towards Selected Display	
•	Zoom	Radar Elevation ControlZoom OSBs	
•	Toggle	RAID/FLIR Button short	
WFOV/MFOV/NAR	• FOV OSB		
•	Toggle CCD/FLIR	RAID/FLIR Button longFLIR/CCD OS	
•	Slew Reticle	TDC Slew	
•	Designate	TDC DEPRESS	
•	Undesignate	NWS/UNDESIGNATE Button	
•	Lase	TRIGGER if TRIG mode boxed	

4.2.2 POINTING METHODS

VVSLV	FLIR slaved to line of sight of velocity vector
• Snowplow	Default mode when no Target designated
Stabilized Point- ing	Entered when target designated from Snow- plow or cycled from Auto Track / Point Track
Waypoint Slaving	Available using HSI (TGP snaps to WYPT)
Scene Track	Tracks specific area. Best for fixed targets
Auto Track	Tracks specific Point. Best for moving targets
INR / Stabilized Pointing	Active when TGP is slewed, maintains orientation to AC using inertial data

4.2.3 POINTING METHODS - VVSLV

VVSLV | FLIR slaved to line of sight of velocity vector

 Conditions 	TDC slaved to current FLIR page
• Activation	Press UNDESIGNATE twiceor press VVSLV OSB on FLIR page
• RTCL	Box RTCL OSB to display TGP reticle
 Designation 	TDC DEPRESS

4.2.4 POINTING METHODS - SNOWPLOW

• Snowplow	Default mode when no Target designated • 0 deg left/right • -8 deg down
• Conditions	TDC slaved to current FLIR page
Activation	Press UNDESIGNATE twice to select VVSLV unstow TGP Press UNDESIGNATE twice to deselect VVSLV
 Designation 	TDC DEPRESS

4.2.5 POINTING METHODS - WAYPOINT SLAVED

• Conditions	TDC slaved to current FLIR pageHSI: Desired waypoint selectedHSI: WYPT boxed on
• Activation	HSI: press WPSDG to designate waypoint as target and slave TGP
• Slew	TDC slew to adjust TGP

4.2.6 POINTING METHODS - SCENETRACK

• Conditions	TDC slaved to current FLIR page
Activation	Unstow TGP with VVSLV SCS towards FLIR page to toggle SCENE/AUTO
• Slew	Scene Track reticle still slewable with TDC

•	Designation	Automatic in SCENE Track
•	Deactivation	Press UNDESIGNATE to revert to Snowplow

4.2.7 POINTING METHODS - AUTO TRACK

• Conditions	TDC slaved to current FLIR page
Activation	Unstow TGP with VVSLV SCS towards FLIR page to toggle SCENE/AUTO
• Slew	Not possibe in Auto Track
• Designation	Automatic in AUTO Track
 Deactivation 	Press UNDESIGNATE to revert to Snowplow

4.2.8 POINTING METHODS - TGP OFFSET

• Conditions	AUTO Track
• OFFSET	TDC DEPRESS to activate OFFSET
 Designation 	SCS towards FLIR to designate Offset Cursor
FLIR to Cursor	SCS in direction of FLIR page to snap TGP to location of Offset Cursor (while in PTRK)

4.2.9 LASER SPOT TRACKER (LST)

 Conditions 	Master Mode: A/GTGP: ONLST/NFLR: ON
Set Laser Code	UFC OSB on FLIR page Press LSTC, enter Code on Keypad, ENT
Begin Search	Set TGP to Snowplow, slew to vicinity of laser Press LST OSB on FLIR page

Searching	FLIR image blankLST flashes on FLIR page
 Designation 	TDC DEPRESS

4.2.10 A/A OPERATION MODES

4.2.11 A/A AUTO TRACK

4.2.12 A/A L+S SLAVE

4.3 JHMCS

4.3.1 CONTROLS

HMD Brightness	BRT Powers on JHMCS
Master Mode	A/A & A/G Master Mode buttons symbology changes depending on selected mode
HMD Blanking Toggle	Even Marker "Recce" Button
	Toggles manual blanking
LHACQ Activa- tion	Master Mode: A/A SCS: FWD long (>0.8s)
HACQ Activation	Master Mode: A/ASCS: FWD short (<0.8s)
Toggle Selected Sensor	Master Mode: A/GSCS: FWDToggles between HUD and HMD
 Undesignate 	UNDESIGNATE

4.3.2 SYMBOLOGY

4.3.3 SETUP - FORMAT

4.3.4 SETUP - BLANKING

4.3.5 SETUP - REJECT

4.3.6 SETUP - MIDS

4.3.7 TARGET DESIGNATION - A/G

• Conditions	Master Mode: A/GJHMCS: ONTDC slaved to HUD or HMD
• Symbology	HUD: dot in VV indicates HUD slaved HMD: Aiming Reticle indicates HMD slaved
• Designation	TDC DEPRESS
Slew Diamond	TDC slew

• Undesignate UNDESIGNATE

4.3.8 TARGET DESIGNATION - A/A Radar

• LHACQ	Long Range Helmet Acquisition: 40nm
• HACQ	Helmet Acquisition: 10nm
• Conditions	Master Mode: A/A HMD: BRT
LHACQ Activa- tion	SCS: FWD long (>0.8s)
HACQ Activation	SCS: FWD short (<0.8s)
Deactivate	SCS AFT

4.3.9 AIM-9X - UP-LOOK

• Up-Look	Slaves AIM-9X to Up-Look reticle (significantly above HMD Line of Sight)
• Conditions	Master Mode: A/AHMD: BRTAIM-9X: Selected
• Activation	SCS: FWD (slave TDC to HMD)
• Uncage	CAGE/UNCAGE button

Chapter 5

A/G WEAPONS

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5.1 A/G OVERVIEW

Weapon	SMS	Туре
		Unguided
LAU-61 LAU-68 LAU-10	61S/R 68S/R 10S/R	2.75-in Hydra rockets (19x) 2.75-in Hydra rockets (7x) 5-in Zuni rockets (4x)
MK-82 MK-82 SE MK-82 Bal MK-83 MK-84	82B 82XT 82YT 83B 84	500 lbs low-drag unguided bomb 500 lbs retarded unguided bomb 500 lbs retarded unguided bomb 1000 lbs low-drag unguided bomb 2000lbs low-drag unguided bomb
BDU-33		25 lbs unguided training bomb
MK-20 RE CBU-99	RE RET	500 lbs Unguided cluster bomb 500 lbs anti-tank cluster bomb
	Las	ser-Guided Bombs
GBU-12 GBU-16 GBU-10 GBU-24	82LG 83LG 84LG GB24	500 lbs PAVEWAY II LGB 1000 lbs PAVEWAY II LGB 2000 lbs PAVEWAY II LGB 2000 lbs PAVEWAY III LGB Penetra- tor
GPS Munitions		
GBU-38 GBU-32 GBU-31 GBU-31(V)	J-82 J-83 J-84 J-109	500 lbs JDAM 1000 lbs JDAM 2000 lbs JDAM 2000 lbs JDAM Penetrator
AGM-154A AGM-154C	JSA JSC	JSOW Cluster JSOW Penetrator
		A/G Missiles
AGM-65E AGM-65F	MAV MAVF	Laser Guided A/G missile IR Guided A/G missile
AGM-88C	HARM	High-Speed Anti-Radiation Missile
AGM-84D AGM-84E	HPD SLMR	Harpoon anti-ship missile SLAM-ER
AGM-62	WEDL	2000 lbs TV-guided bomb

5.2	SELECTIVE ORDNANCE J	ETTISON
1.	. Master Arm	ARM
2.	. SMS	check stores
3.		select desired jettison stations on pushbuttons
4.	Selective Jett. Knob	rotate to desired stations
5.	. Jett. Button	press & hold
6.	. Selective Jett. Knob	SAFE
5.3 I	FORWARD FIRING	
5.3.1	M61A2 GUN - A/G	
1.	. Master Arm	ARM
2.	. Master Mode	A/G
3.	. SMS	select GUN
	 Rounds MK-50 or PGU- Firing Rate HI or LO Mode CCIP 	28
4.	. Reticle	on target
5.	. Fire	once IN RNG cue
6.	Break Away	before X cue
5.3.2	ROCKETS	
1.	. Master Arm	ARM
2.	. Master Mode	A/G
3.	. SMS	select pod (68R)
	Firing Mode SGL or SALMTR M4 or M66Mode CCIP	•
4.	. Reticle	on target
5.	. Fire	once IN RNG cue appears
6.	. Break Away	before X cue

5.4 UNGUIDED FREE-FALL MUNITIONS

5.4.1 UNGUIDED BOMB - CCIP

1.	Master Arm	ARM
2.	Master Mode	A/G
3.	SMS sele	ect desired bomb (82B)
	(a) Create delivery PROG 1	
	(b) Mode	CCIP
	(c) MFUZ	NOSE
	(d) EFUZ	DLY1 or INST
	(e) DRAG FF or RE	ET based on bomb type
4.	UFCpress	UFC OSB on SMS page
	• QTY bombs per release	
	 MULT bombs per salvo in release 	
	 INT interval between salvo in feet 	t
	Dive	-
6.	DILDisplayed	Impact Line over target
7.	CCIP Crossa	ppears once computed
8.	Maneuver keep CCIP	CROSS & DIL on target
9.	Releasewhen	CCIP CROSS on target
10.	Pull Upbefore vel vecto	r reaches PULL UP cue
5.4.0	UNGUED BOMB CODE	
	UNGUIDED BOMB - CCRP	
	Master Arm	
	Master Mode	•
3.	SMSseld	ect desired bomb (82B)
	(a) Create delivery PROG 1	
	(b) Mode	
	(c) MFUZ	
	(d) EFUZ	DLY1 or INST
	(e) DRAG FF or RE	ET based on bomb type
4.	UFCpress OSI	B for UFC on SMS page
	 QTY bombs per release 	
	MULT bombs per salvo in release	
	 INT interval between salvo in feet 	[

6.	Symbology"Ball & Chain"
7.	Dive 25 deg to place vel vector on target
8.	TDC DEPRESS to designate target
9.	TDCSLEW target designator
10.	Level Flight keep vel vector aligned with ASL (azimuth steering line)
11.	$\begin{tabular}{ll} \textbf{Release} & \textbf{when weapon cue appears, hold until all ordnance} \\ \textbf{released} & \\ \end{tabular}$
	Pull Upbefore vel vector reaches PULL UP cue
5.4.3	MK-20 CLUSTER BOMB - CCIP
1.	Master Arm ARM
2.	Master ModeA/G
3.	SMS select desired bomb (RE)
	(a) Create delivery PROG 1
	(b) Mode
	(c) MFUZ
	(d) HT OSBpress to cycle
4.	UFC press UFC OSB on SMS page
	QTY bombs per release
	MULT bombs per salvo in release
_	INT interval between salvo in feet
	Dive
	DIL
	CCIP Crossappears once computed
	Maneuver keep CCIP CROSS & DIL on target
	Releasewhen CCIP CROSS on target
10.	Pull Upbefore vel vector reaches PULL UP cue

5.5 GPS GUIDED MUNITIONS

5.5.1 JDAM/JSOW - PP

		_	
Maa	non	Setu	n
vvca	puli	Jelu	μ

1. Coord. prepare in format DEG MIN SEC : DEC-SEC
2. SMS while on ground
(a) Select desired JDAM (J-82) or JSOW (JSA/JSC)
(b) Waitfor GOOD align (3 min)
(c) Mode PP
(d) FuzingINST
3. JDAM Display press JDAM DSPLY OSB
4. Release TypeMANUAL
5. QTY press QTY OSB select desired stations (recommend: all) press RTN OSB, now STEP OSB cycles between stations
6. MSN Page crossed out PP mean no coordinates
7. Select PP1 press PP1 OSB
8. Data Entry press TGT UFC OSB
(a) HT enter height for cluster dispersal (only for JSA)
(b) Return press TGT UFC twice to return to main UFC page
(c) ELEV select ELEV on UFC
(d) Return press TGT UFC twice to return to main UFC page
(e) POSNselect POSN on UFC
(f) LAT input DEG MIN SEC, ENT input DEC-SEC, ENT
(g) LON input DEG MIN SEC, ENT input DEC-SEC, ENT
(h) Return press TGT UFC twice to return to main UFC page
9. VerifyPP1 no longer crossed
10. Repeat for remaining stations
eapon Launch

Weapon Launch

REV: 20220620 F/A-18C A/G WEAPONS 3. SMS verify J-82 boxed **4.** R DDIHSI page **6. Verify** MANUAL release, PP, desired station **7. Maneuver**with steering cues **8. TMR** Time to Minimum Range 9. IN RNG In Range **10. Fire**hold weapon release **11. Next**system will auto cycle to next JDAM 12. Verify MANUAL release, PP, desired station 13. Repeatfor remaining bombs Note each JDAM can have 4 PP targets 5.5.2 JDAM/JSOW - TOO WYPT **Weapon Setup** 1. Waypointsverify (a) SUPT HSI (b) **DATA**cycle through waypoints (c) Precise push PRECISE OSB to add DEC-SEC 2. SMS while on ground (a) Select desired JDAM (J-82) or JSOW (JSA/JSC) (c) ModeTOO (d) FuzingINST 3. JDAM Displaypress JDAM DSPLY OSB 4. Release TypeMANUAL **5. QTY** ... press QTY OSB select desired stations (recommend: all), press RTN OSB, now STEP OSB cycles between stations **6. MSN Page**press TOO1 7. Data Entry

(a) TOO UFC

(b) HT enter height for cluster dispersal (only for JSA)

(c) Return press TGT UFC twice to return to main UFC

8. Repeat for remaining stations

Weapon Launch

n Launch	
Master Arm	ARM
Master Mode	A/G
SMS	verify J-82 boxed
R DDI	HSI page
L DDI	JDAM page
Verify	MANUAL release, TOO, desired station
HSI	select waypoint 1
Designate	press WPDSG
Maneuver	with steering cues
TMR	Time to Minimum Range
IN RNG	In Range
Fire	hold weapon release
Next	system will auto cycle to next JDAM
Verify	MANUAL release, TOO, desired station
	Master Arm Master Mode SMS R DDI L DDI Verify HSI Designate Maneuver TMR IN RNG Fire Next

15. Repeat for remaining bombs & waypoints

5.5.3 JDAM/JSOW - TOO TPOD

Weapon Setup

1. SMS while or	າ ground
(a) Select desired JDAM (J-82) or JSOW (JSA/JSC)	
(b) Waitfor GOOD align	า (3 min)
(c) Mode	T00
(d) Fuzing	INST
2. JDAM Displaypress JDAM DSI	PLY OSB
3. Release Type	ИANUAL
 QTY press QTY OSB select desired stations (reco all), press RTN OSB, now STEP OSB cycles between s 	
5. MSN Page pre	ss T001
6. Data Entry	
(a) TOO UFC	
(b) HT enter height fo	r cluster

dispersal (only for JSA)

(c) Returnpress TGT UFC twice to return to main UFC	
7. FLIR STBY	
8. DDI/AMPCDselect FLIR, monitor warm up	
9. FLIR ON, once ready	
10. Master Mode	
11. LTD/R ARM	
12. SCS in direction of FLIR DDI/AMPCD	
13. TDC slew TPOD reticle over target	
14. SCS towards FLIR display to toggle	
PTRK tracks moving target (vehicle)ATRK track static target	
15. Designate depress TDC to designate target, coordinates will auto transfer to JDAM/JSOW	
16. Verify updated coordinates in JDAM MSN page	
NOTE CAN ONLY GIVE COORD TO 1 JDAM, CANNOT TRANSFER COOFFROM TOO TO PP	≀D
WEAPON LAUNCH	
1. Master Arm ARM	
2. Master Mode	
3. SMS verify J-82 boxed	
4. AMPCD HSI	
5. R DDI	
6. L DDI	
7. Verify MANUAL release, TOO, desired station	
8. Maneuverwith steering cues	
9. TMR Time to Minimum Range	
10. IN RNG	
11. Fire hold weapon release	

5.6 LASER GUIDED MUNITIONS

5.6.1	GBU-12 PAVEWAY II
1.	Master Arm ARM
2.	Master ModeA/G
3.	SMSselect desired bomb (82LG)
	(a) Create delivery PROG 1
	(b) Mode
	(c) MFUZ OFF
	(d) EFUZ DLY1 or INST
4.	FLIRSTBY
5.	DDI/AMPCDselect FLIR, monitor warm up
6.	FLIRON, once ready
7.	LTD/RARM
8.	SCSin direction of FLIR DDI/AMPCD
9.	TDCslew TPOD reticle over target
10.	SCS towards FLIR display to toggle
	 PTRK tracks moving target (vehicle)
	ATRK track static target
11.	UFC OSBpress to set code on UFC
12.	LTDCselect on UFC, set code , press ENT
13.	SMSselect 82LG
14.	CODE OSB
15.	UFC enter CODE
16.	82LG should display RDY
17.	FLIRpress TRIG OSB
18.	Laserpress gun trigger to fire
19.	TDC depress to designate laser as target (will slave A/G weapons to laser)
20.	Level Flight keep vel vector aligned with ASL (azimuth steering line)
21.	Release when weapon cue appears, hold until ordnance

Note To drop other GBUs, must re-enter CODE for each bomb

released

5.7 AGM-65 MAVERICK

5.7.1 AGM-65F/G IR-MAV

COOLING begins upon first selection in SMS, weight on wheels inhibits cooling. Cooldown takes about 3 minutes

- 1. Master Mode A/G
- 2. SMS select MAVF
- 3. Wait for cooldown
- 4. Master Arm ARM
- 5. TAC Page select IMAV DSPLY
 OR
 SMSselect MAVF twice
- 6. Fuzing as desired
- 7. SCS towards MAV feed (usually L DDI)
- 8. FOV as desired
- 9. Cage/Uncaged
 - · Caged seeker points at boresight
 - Uncaged missile attempts to lock on to contrast
- 10. TDC slew WHILE depressing
- Release TDC MAV will attempt to lock on, good range 7.5 miles
- **12. LOCK ON** cross will disappear
- **13. Fire** hold weapon release

5.7.2 AGM-65E LASER-MAV

- 1. Master Mode A/G
- 2. Master Arm ARM
- 3. SMS select MAV
 - (a) **Self Test**30s, monitor in MAV DSPLY
 - (b) FuzingINST
- 4. MAV DSPLY press UFC OSB (edits ALL laser codes at once)
- 5. CODE enter on UFC
- 6. FLIR STBY
- 7. DDI/AMPCD select FLIR, monitor warm up
- 8. FLIR ON, once ready
- 9. LTD/R ARM

- 10. SCS in direction of FLIR DDI/AMPCD
- 11. TDC slew TPOD reticle over target
- **12. SCS** towards FLIR display to toggle
 - PTRK tracks moving target (vehicle)
 - ATRK track static target
- 13. UFC OSB press to set code on UFC
- 14. LTDC select on UFC, set code, press ENT
- 15. FLIR press TRIG OSB
- 16. Laser press gun trigger to fire
- 17. SCS to MAV DSPLY DDI
- 18. MAV DSPLY select desired station using STEP OSB
- 19. Uncage missile

NOTE MAV DSPLY must be selected, else will boresight TPOD

- 1. RDY indication & MAV LKD in HUD indicates ready to fire
- 2. Fire hold weapon release

5.8 AGM-88C HARM

5.8.1 HARM - TOO

- 1. Master Arm ARM
- 2. Master Mode A/G
- 3. R DDI TAC EW page
- 4. L DDI SMS page, select HARM
- **5. Mode** TOO (Target Of Opportunity)
- 6. SCS towards HARM DDI
- Cycle Emitter depress RAID/FLIR to cycle, consult HUD, RWR or EW page
- 8. Maneuver align target icon with cross of seeker
- 9. Handoff press CAGE/UNCAGE to lock seeker to target
- 10. Fire hold weapon release

5.8.2 HARM - SP

- 1. Master Arm ARM
- 2. Master Mode A/G
- 3. R DDI TAC EW page
- 4. L DDI SMS page, select HARM
- **5. Mode** SP (Self Protect)
- Cycle Emitter depress RAID/FLIR to cycle, consult HUD, RWR or EW page
- 7. Fire hold weapon release

5.8.3 HARM - PULLBACK

If RWR detects critical threat, SP Pullback will automatically select and prepare harm for launch.

NOTE HARM OVRD on SMS must be unboxed

- 1. Master Arm ARM
- 2. Master Mode A/G
- 3. HRM OVRD unboxed
- 4. RWR Critical threat
- 5. HUD HARM displayed
- 6. Fire hold weapon release

5.8.4 HARM - PB Intro

- 5.8.5 HARM PB Setup
- 5.8.6 HARM A/C LOFT
- 5.8.7 HARM HRM LOFT

5.9 AGM-84D HARPOON

5.9.1 HARPOON - BOL

Launch Parameters

- Search Point Distance 0-105 nm, from launch until start search, or from HPTP to search
- Self Destruct Distance
- Bearing To Target deg, bearing missile will follow either from launch or after HPTP (Turnpoint)
- FLT HIGH 35k, MED 15k, LOW 5k
- Term. SKIM/POP
- 1. Master Arm ARM
- 2. Master Mode A/G
- 3. SMS select HPD OSB
- 4. Align monitor from SMS (25 s)
- 5. Program Parameters
 - (a) UFCpress UFC OSB
 - (b) SRCHinput Search Point, ENT
 - (c) DSTRinput Self Destruct, ENT
 - (d) BRGinput Bearing, ENT

SMS

- (a) **Mode** BOL
- (b) FLT LO/MED/HI
- (c) **Term.**SKIM/POP
- 6. R DDI HSI
- 7. FXP/HPTP
 - FXP Fixpoint, located 1/2 dis between SRCH and DSTR point, harpoon will fly to FXP and hold that bearing
 - HPTP Harpoon Turnpoint select waypoint, press HPTP OSB, harpoon will fly to HPTP, then BRG
- 8. IN ZONE follow steering cues until IN ZONE cue appears
- 9. Alt 2500 ft or higher
- 10. g positive
- 11. Fire hold weapon release
- **12. RADALT** warning normal

5.9.2 HARPOON - R/BL

Launch Parameters

- TGT Target must be designated with WPDSG from HSI, TPOD by depressing TDC, or RDR
- FLT HIGH 35k, MED 15k, LOW 5k
- TERM SKIM/POP
- SEEK search area, SML/MED/LRG
- 1. Master Arm ARM
- 2. Master Mode A/G
- 3. SMS select HPD OSB
 - (a) Align monitor (25 s)
 - (b) **HPTP** Harpoon Turnpoint select waypoint, press HPTP OSB, harpoon will fly to HPTP, then TGT Point

 - (d) **FLT** LO/MED/HI
 - (e) **Term.**SKIM/POP

LRG (16.2 nm)

- 4. R DDI HSI
- 5. IN ZONE follow steering cues until IN ZONE cue appears
- 6. Alt 2500 ft or higher
- 7. g positive
- 8. Fire hold weapon release
- 9. RADALT warning normal

5.10 AGM-84E/H SLAM & SLAM/ER

5.10.1 **SLAM - SETUP**

 Master Mode 	(a) Master ArmARM
	(b) Master Mode
 SLAM Power 	(a) SLAM OSB
	 Select desired station with STEP OSB
	 Alignment – approx. 3 min
	(b) ALN QUAL
• Datalink	(a) DL13
	 Select desired SLAM for datalink
	(c) Verify SLAM indication under boxed DL13
• Weapon	(a) FLT As Desired
Parameters	• HIGH – 35000 ft
	• MED – 15000 ft
	• LOW – 5000 ft
	(b) EFUZINST
SLAM DSPLAY	(a) REL TYPEMAN
Page	(b) UFC OSBBoxed
	(c) DIST As Required
	 DIST – Distance from target in NM when seeker head goes active
	• Typical Value – 15
	(d) UFC OSBUnbox
Target Designation	• TOO WYPT / TOO TPOD / TOO A/G RDR • PP

5.10.2 **SLAM - TOO WYPT**

1.	Generic Setup	Refer to Setup Section	
2.	SLAM DSPLY TOO Setup	(a) MODE	
		 Select between TOO1 & TOO2 Verify ORP (Offset Release Point) blank 	
		(c) TERM (Optional)As Desired	
		 Can enter terminal heading, angle and velocity via UFC 	
		(d) O/S (Optional) As Desired	
		Can input Offset parameters via UFC	
3.	HSI Waypoint Designation	(a) WYPT	
		 TGT will replace WYPT as boxed Min/Max Launch Range circles appear on HSI 	
4.	Cueing	 MSN Page – ORP shows coordinates of designated waypoint HUD – designation diamond, steering cues, range to target, SLAM, TMR, and TOO indications appear 	
5.	Weapon Launch	Refer to Launch Section	

5.10.3 **SLAM - TOO TPOD**

1.	Generic Setup	Refer to Setup Section	
2.	SLAM DSPLY TOO Setup	(a) MODETOO (b) MSN PageEnter	
		 Select between TOO1 & TOO2 Verify ORP (Offset Release Point) blank 	
		(c) TERM (Optional)As Desired	
		 Can enter terminal heading, angle and velocity via UFC 	
		(d) O/S (Optional) As Desired	
		Can input Offset parameters via UFC	
3.	TPOD Designa-	(a) Slew TPOD over target	
	tion	(b) TDCDepress	
4.	Cueing	 MSN Page – ORP shows coordinates of designated waypoint HSI Page – Min/Max launch circles HUD – designation diamond, steering cues, range to target, SLAM, TMR, and TOO indications appear 	
5.	Weapon Launch	Refer to Launch Section	

NOTE

• TPOD range < SLAM range – IN RNG cue on designation likely

5.10.4 SLAM - TOO A/G RDR

1.	Generic Setup	Refer to Setup Section	
2.	SLAM DSPLY TOO Setup	(a) MODE	
		 Select between TOO1 & TOO2 Verify ORP (Offset Release Point) blank 	
		(c) TERM (Optional)As Desired	
		 Can enter terminal heading, angle and velocity via UFC 	
		(d) O/S (Optional)As Desired	
		 Can input Offset parameters via UFC 	
3.	RDR Designation	(a) EXP Mode As Required (b) TDC Depress & Hold slew, release to designate target	
4.	Cueing	 MSN Page – ORP shows coordinates of designated waypoint HSI Page – Min/Max launch circles HUD – designation diamond, steering cues, range to target, SLAM, TMR, and TOO indications appear 	
5.	Weapon Launch	Refer to Launch Section	

NOTE

- A/G RDR range < SLAM range IN RNG cue on designation likely
- Radar significantly less precise if visibility allows FLIR is preferred TOO designation method

5.10.5 SLAM - PP

1.	Generic Setup	Refer to Setup Section	
2.	SLAM DSPLY TOO Setup	(a) MODE	
		Select between PP1-PP5Verify TGT blank	
		(c) TERM (Optional)As Desired	
		 Can enter terminal heading, angle and velocity via UFC 	
		(d) O/S (Optional) As Desired	
		Can input Offset parameters via UFC	
3.	Target	(a) Prepare Coordinates	
	Designation	• LAT/LONG - DEG MIN SEC : DEC-SEC • ELEV - FT	
		(b) Desired PPBoxed	
		(c) TGT UFC Boxed (d) UFC Select POSN	
		 Input LAT, LONG respectively DEG MIN SEC, ENTER, then DEC-SEC 	
		(e) TGT UFCPress 2x (returns to main UFC Menu)	
		(f) UFC Select ELEV	
		Select desired unit (FEET / MTRS)Enter elevation data	
		(g) TGT UFCPress 2x (returns to main UFC Menu)	
		(h) MSN Page	
		 PP – Selected PP no longer crossed out 	
		TGT – Shows desired coords / elev data	
4.	Cueing	 HSI Page – Min/Max launch circles HUD – designation diamond, steering cues, range to target, SLAM, TMR, and TOO indications appear 	
5.	Weapon Launch	Refer to Launch Section	

5.10.6 SLAM-ER - STEERPOINTS

1.	Generic Setup	Refer to Setup Section	
2.	Target Designa- tion	Refer to Designation Sections TOO WYPT / TOO TPOD / TOO A/G RDR PP	
3.	SMS Page Steerpoint Designation	(Optional) (a) STP OSB	
4.	Weapon Launch	Refer to Launch Section	

NOTE

- SLAM-ER is labeled as SLMR on SMS / MSN Page, adjust procedures accordingly
- SLAM-ER has significantly higher range as compared to SLAM

5.10.7 SLAM - LAUNCH

1.	Generic Setup	Refer to Setup Section	
2.	Target Designation	TOO WYPT / TOO TPOD / TOO A/G RDR PP	
3.	Cockpit Setup	R DDI – HSI Page L DDI – SMS Page	
4.	SMS Page Datalink Setup	(a) SLAM OSB	
5.	Launch Conditions	Weapon Station RDY Range Cue IN RNG Release Profile Set Master Mode A/G Master Arm ARM	
6.	Weapon Launch	Hold WEAPON RELEASE until separation	
7.	TTS = 0	 Datalink feed activates Seeker becomes uncaged FOV OSB toggles field-of-view 	
8.	Manual Correction	Press & Hold TDC while slewingNot recommended unless necessary	
9.	Impact	Datalink feed cuts out	

NOTE

Cueing

- TTS (Time-To-Seeker) time until seeker goes active and pilot can take control
- TMR Time until maximum launch range
- IN RNG Within maximum launch range
- Diamond Shows Target location on HUD/HMD

5.11 AGM-84E/H SLAM & SLAM/ER – ALTERNATE FORMAT

5.11.1 SLAM - SETUP 1. Master Mode (a) Master Arm ARM 2. SLAM Power (a) SLAM OSB Boxed Select desired station with STEP OSB Alignment – approx. 3 min 3. Datalink (b) WEP OSB Press Select desired SLAM for datalink (c) Verify SLAM indication under boxed DL13 4. Weapon Parameters (a) **FLT** **As Desired** HIGH – 35000 ft MED – 15000 ft • LOW – 5000 ft (b) **EFUZ****INST** 5. SLAM DSPLAY Page (b) UFC OSB Boxed (c) DIST As Required • **DIST** – Distance from target in NM when seeker head goes active

- 6. Target Designation Refer to Designation Sections
 - TOO WYPT / TOO TPOD / TOO A/G RDR

• Typical Value – 15

• PP

5.11.2 **SLAM - TOO WYPT**

1. Generic Setu	Refer to	Setup Section
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2. SLAM DSPLY - TOO Setup

(a)	MODE	T0	00
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- (b) MSN Page Enter
 - Select between TOO1 & TOO2
 - Verify ORP (Offset Release Point) blank
- (c) TERM (Optional) As Desired
 - Can enter terminal heading, angle and velocity via UFC
- (d) O/S (Optional) As Desired
 - · Can input Offset parameters via UFC

3. HSI Waypoint Designation

- (a) WYPT Boxed
- (b) Target Waypoint Selected
- (c) WPDSGPress
 - TGT will replace WYPT as boxed
 - Min/Max Launch Range circles appear on HSI

4. Cueing

- MSN Page ORP shows coords of designated waypoint
- **HUD** designation diamond, steering cues, range to target, SLAM, TMR, and TOO indications appear
- 5. Weapon Launch Refer to Launch Section

5.11.3 SLAM - TOO TPOD

- 1. Generic Setup Refer to Setup Section
- 2. SLAM DSPLY TOO Setup

 - (b) MSN Page Enter
 - Select between TOO1 & TOO2
 - Verify ORP (Offset Release Point) blank
 - (c) TERM (Optional) As Desired
 - Can enter terminal heading, angle and velocity via UFC
 - (d) O/S (Optional) As Desired
 - Can input Offset parameters via UFC
- 3. TPOD Designation
 - (a) TPOD Slewed to Target
 - (b) **TDC****Depress**
- 4. Cueing
 - MSN Page ORP shows coords of designated waypoint
 - HSI Page Min/Max launch circles
 - **HUD** designation diamond, steering cues, range to target, SLAM, TMR, and TOO indications appear
- 5. Weapon Launch Refer to Launch Section

NOTE

• TPOD range < SLAM range - IN RNG cue on designation likely

5.11.4 SLAM - TOO A/G RDR

- 1. Generic Setup Refer to Setup Section
- 2. SLAM DSPLY

TOO Setup

- (a) **MODE****TOO**
- (b) MSN Page Enter
 - Select between TOO1 & TOO2
 - Verify ORP (Offset Release Point) blank
- (c) TERM (Optional) As Desired
 - Can enter terminal heading, angle and velocity via UFC
- (d) **O/S (Optional)** **As Desired**
 - · Can input Offset parameters via UFC
- 3. RDR Designation
 - (a) EXP Mode As Required
 - (b) **TDC** **Depress & Hold** slew, release to designate target
- 4. Cueing
 - MSN Page ORP shows coordinates of designated waypoint
 - HSI Page Min/Max launch circles
 - HUD designation diamond, steering cues, range to target, SLAM, TMR, and TOO indications appear
- 5. Weapon Launch Refer to Launch Section

NOTE

- A/G RDR range < SLAM range IN RNG cue on designation likely
- Radar significantly less precise if visibility allows FLIR is preferred TOO designation method

5.11.5 SLAM - PP

- 1. Generic Setup Refer to Setup Section
- 2. SLAM DSPLY TOO Setup
 - (a) **MODE**PP
 - (b) MSN Page Enter
 - Select between PP1-PP5
 - Verify TGT blank
 - (c) TERM (Optional) As Desired
 - Can enter terminal heading, angle and velocity via UFC
 - (d) **O/S (Optional)** **As Desired**
 - Can input Offset parameters via UFC
- 3. Target Designation
 - (a) Prepare Coordinates
 - LAT/LONG DEG MIN SEC : DEC-SEC
 - **ELEV** FT
 - (b) Desired PP Boxed
 - (c) **TGT UFC** **Boxed**
 - (d) UFC Select POSN
 - Input LAT, LONG respectively
 - DEG MIN SEC, ENTER, then DEC-SEC

(f) UFC Select ELEV

- Select desired unit (FEET / MTRS)
 - Enter elevation data
- (g) TGT UFCPress 2x

(returns to main UFC Menu)

- (h) MSN Page
 - PP Selected PP no longer crossed out
 - TGT Shows desired coords / elev data
- 4. Cueing
 - HSI Page Min/Max launch circles
 - HUD designation diamond, steering cues, range to target, SLAM, TMR, and TOO indications appear
- 5. Weapon Launch Refer to Launch Section

5.11.6 SLAM-ER - STEERPOINTS

- 1. Generic Setup Refer to Setup Section
- 2. Target Designation Refer to Designation Sections
 - TOO WYPT / TOO TPOD / TOO A/G RDR
 - PP
- 3. SMS Page Steerpoint Designation (Optional)
 - (a) **STP OSB** **Boxed**
 - (b) UFCSTP1
 - Input desired waypoint number, ENTER
 - (c) Repeat up to STP5
- 4. Weapon Launch Refer to Launch Section

NOTE

- SLAM-ER is labeled as SLMR on SMS / MSN Page, adjust procedures accordingly
- SLAM-ER has significantly higher range as compared to SLAM

5.11.7 SLAM - LAUNCH

- 1. Generic Setup Refer to Setup Section
- 2. Target Designation Refer to Designation Sections
 - TOO WYPT / TOO TPOD / TOO A/G RDR
 - PP
- 3. Cockpit Setup
 - R DDI HSI Page
 - L DDI SMS Page
- 4. SMS Page Datalink Setup

 - (b) **DL13 OSB** **Boxed**
 - (c) Datalink Channel Set
 - Must set to match weapon station
 - Set via UFC OSB & UFC input
- 5. Launch Conditions
 - Weapon StationRDY
 - Range Cue IN RNG
 - Release Profile Set
 - Master Mode A/G
 - Master Arm ARM
- 6. Weapon Launch Hold WEAPON RELEASE until separation
- 7. TTS = 0
 - Datalink feed activates
 - Seeker becomes uncaged
 - FOV OSB toggles field-of-view
- 8. Manual Correction
 - Press & Hold TDC while slewing
 - Not recommended unless necessary
- 9. Impact Datalink feed cuts out

NOTE

- Cueing
 - TTS (Time-To-Seeker) time until seeker goes active and pilot can take control
 - TMR Time until maximum launch range
 - IN RNG Within maximum launch range
 - Diamond Shows Target location on HUD/HMD

5.12 AGM-62 WALLEYE II

5.12.1 AGM-62 WALLEYE II

- 1. Master Arm ARM
- 2. Master Mode A/G
- 3. SMS select WEDL
 - (a) TV Feedselect WEDL OSB again
 - (b) Fuzingas desired
- **4. SCS** towards walleye feed DDI
- Cage/Uncage when uncaged the bomb will attempt to lock on to contrast
- **6. TDC** DEPRESS & **hold** while slewing
- **7. LOCK ON** RDY indication next to station, WE no longer crossed out in HUD, WEDL no longer crossed out in SMS
- 8. Fire hold weapon release

5.12.2 AGM-62 WALLEYE II - D/L

- 1. Master Arm ARM
- 2. Master Mode A/G
- 3. SMS select WEDL
 - (a) D/Lselect DL13 OSB (turns on D/L & TV feed)
 - (b) **CHNL** press UFC OSB and set channel equal to selected station of walleye, then deselect UFC OSB
 - (c) Fuzingas desired
- 4. SCS towards DL feed
- Cage/Uncage when uncaged the bomb will attempt to lock on to contrast
- 6. TDC DEPRESS & hold while slewing
- LOCK ON RDY indication next to station, WE no longer crossed out in HUD, WEDL no longer crossed out in SMS
- 8. Fire hold weapon release
- 9. Steer DEPRESS & hold TDC
- 10. Impact D/L Feed will cut out

Range theoretical max 20 nm, practical max 10 nm, altitude of 20k and high airspeed recommended

Lock On not required for D/L launch but recommended

Oversteering significantly reduces range

Chapter 6

A/A WEAPONS

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6.1	M61A2	2 GUN
	6.1.1	M61 - NO RADAR
	6.1.2	M61 - RADAR
6.2	AIM-9	SIDEWINDER
	6.2.1	AIM-9 - NO RADAR
	6.2.2	AIM-9 - RADAR
	6.2.3	AIM-9X - JHMCS
6.3	AIM-7	SPARROW
	6.3.1	AIM-7F - RADAR
6.4	AIM-12	20 AMRAAM
	6.4.1	AIM-120 - STT
	6.4.2	AIM-120 - TWS

6.1 M61A2 GUN

6.1.1	M61 - NO RADAR	
1.	Master Arm ARM	
2.	RadarOFF	
3.	Weapon Select	
4.	SMS	
	Rounds MK-50 or PGU-28Firing Rate HI or LO	
5.	FireTRIGGER	
6.1.2	M61 - RADAR	
1.	Master Arm ARM	
2.	RadarOPERATE	
3.	Weapon Select	
4.	SMS	
	Rounds MK-50 or PGU-28Firing Rage HI or LO	
5.	Radar ACM GACQ (occurs automatically)	
6.	Maneuverplace pipper over target	

7. FireTRIGGER

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6.2 AIM-9 SIDEWINDER

<u> </u>	AIM-7 SIDEWINDER	
6.2.1	AIM-9 - NO RADAR	
1.	IR CoolNORM	
2.	Master Arm ARM	
3.	RadarOFF	
4.	Weapon Select SIDEWINDER (fwd)	
5.	Cage/Uncage DEPRESS	
6.	Maneuverplace target in seeker (good tone)	
7.	FireTRIGGER	
6.2.2	AIM-9 - RADAR	
	IR CoolNORM	
	Master Arm ARM	
	Radar OPERATE	
4.	Weapon Select	
	SCSACM (forward)	
	Select Sub Mode with further depresses	
	BST BoresightVACQ Vertical AcquisitionWACQ Wide Acquisition	
7.	Maneuverplace target in lock on zone	
8.	Cage/Uncagedepress	
	Maneuver place steering dot inside ASE/NIRD circle	
10.	FireTRIGGER	
6.2.3	AIM-9X - JHMCS	
	IR CoolNORM	
	HMDBRT	
3.	Master Arm ARM	
	Weapon Select SIDEWINDER (fwd)	
	Move Head place DAC on target	
	Cage/Uncage DEPRESS	
	Fire on good tone	

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NOTE

AIM-9X TONES

- Static Searching
- **Double Beep** Past 27.5 deg off boresight
- Repeating beep Sees I/R contrast (not enough for track)
- Steady Tone Sees I/R contrasting target
- High Pitched Tone Uncaged
- Higher Pitch Tone Uncaged and past 27.5 deg off boresight

6.3 AIM-7 SPARROW

6.3.1	AIM-7F - RADAR
1.	RadarOPERATE
2.	R DDIRDR ATTK page
3.	Master Arm ARM
4.	Weapon Select
5.	SMS
	 Size SML/MED/LRG HELO as desired Desired sparrow type
6.	$ \begin{array}{c} \textbf{Sensor Select Switch} & \dots \textbf{RIGHT to select BVR/RWR mode and slave TDC to R DDI} \\ \end{array} $
7.	Radar Range Scaleas desired
8.	Radar Azimuth Range as desired
9.	Radar Bar Modeas desired
10.	Aantenna Elevchoose optimum
11.	Lock Target TDC DEPRESS over target
12.	Maneuverplace target in ASE circle (will cause STT lock)
13.	Maneuver place steering dot inside ASE/NIRD circle
14.	Fire once in range and SHOOT cue appears

Undesignate by pressing UNDESIGNATE button
ACM modes can also be used with sparrow (see SIDEWINDER - RADAR)

6.4 AIM-120 AMRAAM

6.4.1	AIM-120 - STT
1.	Radar OPERATE
2.	R DDIRDR ATTK page
3.	Master Arm ARM
4.	Weapon Select AMRAAM (right)
5.	SMS
	Size SML / MED / LRGSelect desired AMRAAM station
6.	Sensor Select Switch $$ RIGHT to select BVR/RWR mode and slave TDC to R DDI
7.	Radar Range Scaleas desired
8.	Radar Azimuth Range as desired
9.	Radar Bar Modeas desired
10.	Antenna Elevchoose optimum
11.	Lock Target place TDC over target and depress
12.	Maneuverplace target in ASE circle (will cause STT lock)
13.	Maneuver place steering dot inside ASE/NIRD circle
14.	Fire once SHOOT cue appears

6.4.2 AIM-120 - TWS

