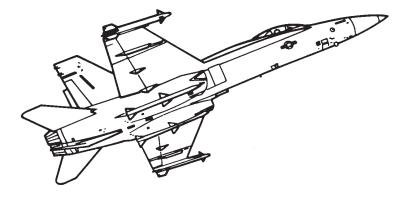
Pocket Checklist

F/A-18C AIRCRAFT

REV: 20220304



Procedures

Systems

APG-73 Radar

TGP JHMCS

A/G Weapons

A/A Weapons

DISCLAIMER

This document represents a personal project and is intended for entertainment purposes only. Do not use for training purposes or in real life scenarios.

Contents

1	PRC	CEDU		1
	1.1	START	Г-UР 1∹	3
		1.1.1	PRE-START	3
		1.1.2	ENGINE START	3
		1.1.3	POST-START	4
	1.2	TAKE	OFF & LANDING	7
		1.2.1	PRE-TAXI	7
		1.2.2	TAKEOFF - SHORE	7
		1.2.3	TAKEOFF - CARRIER	8
		1.2.4	LANDING - SHORE	
		1.2.5	LANDING - CARRIER CASE I	
		1.2.6	LANDING - CARRIER CASE III	5
		1.2.7	LANDING - ICLS CASE III	
	1.3	IN-FLI	GHT	6
		1.3.1	A/A REFUELING	6
_	01/0		_	
2		TEMS	2-	-
	2.1		EMS	
		2.1.1	ARC-210 RADIO	_
		2.1.2	AFCS - MODES	
		2.1.3	AFCS - PROCEDURES	
		2.1.4	ATC - APPROACH MODE	•
		2.1.5	ATC - CRUISE MODE	•
	2.2		GATION	•
		2.2.1	WAYPOINT 2-	
		2.2.2	WAYPOINT - ADD	_
		2.2.3	WAYPOINT - REMOVE	_
		2.2.4	WAYPOINT - EDIT LAT/LONG	_
		2.2.5	WAYPOINT - EDIT GRID COORDS	_
		2.2.6	WAYPOINT - PRECISE COORDS	_
		2.2.7	MARKPOINT ARR	_
		2.2.8	MARKPOINT - ADD	•
		2.2.9	ADF	
		2.2.10	TACAN	1

		2.2.11 AN/ALR-67 RWR	
		2.2.12 AN/ALE-47 ACMDS	
		2.2.13 AN/ALE-47 ACMDS - MODES	
		2.2.14 AN/ALQ-165 ASPJ	
		2.2.15 DATALINK	. 2-11
		2.2.16 IFF	. 2-11
		2.2.17 SA PAGE	. 2-11
,	3 AN	/APG-73 RADAR	3-1
`	3.1		
		3.1.1 RWS	
		3.1.2 RWS - LTWS	
	32	TWS - TRACK WHILE SCAN	
	0.2	3.2.1 TWS - DESIGNATION	
		3.2.2 TWS - SCAN CENTERING METHODS	
		3.2.3 TWS - SCAN RAID	
		3.2.4 TWS - EXP	
	3.3	ACM - AIR COMBAT MANEUVERING	
	0.0	3.3.1 ACM - BST	
		3.3.2 ACM - VACQ	
		3.3.3 ACM - WACQ	
		3.3.4 ACM - GACQ	
	3.4	LOCK ACQUISITION	
	•	3.4.1 STT	
		3.4.2 AACQ	
		3.4.3 JHMCS	
	3.5	MAP	
	0.0	3.5.1 MAP	
		3.5.2 MAP - DESIGNATION	
		3.5.3 MAP - EXP1	
		3.5.4 MAP - EXP2	
		3.5.5 MAP - EXP3	
		3.5.6 MAP - EXP DESIGNATION	
		3.5.7 GMT	
		3.5.8 GMT - GMTT	
		3.5.9 SEA	
		3.5.10 SEA - TARGET TRACKING	-
		o.o. to delt in that in the talk a control of the c	
4		P & JHMCS	4-1
	4.1	AAQ-28 LITENING II	_
		4.1.1 CONTROLS	
		4.1.2 POINTING METHODS	
		4.1.3 POINTING METHODS - VVSLV	
		4.1.4 POINTING METHODS - SNOWPLOW	
		4 1 5 POINTING METHODS - STARII IZED POINTING	1_1

		4.1.6 POINTING METHODS -	WAYPOINT SLAVED	I-4
			AREA TRACK	
		4.1.8 POINTING METHODS -	POINT TRACK 4	l-5
		4.1.9 POINTING METHODS -	TGP OFFSET 4	l-5
		4.1.10 START-UP & LASING		l-6
		4.1.11 LASER SPOT TRACKE	R (LST)	l-6
		4.1.12 LASER MARKING		- 7
	4.2			
			VVSLV	
			SNOWPLOW 4-	
			WAYPOINT SLAVED 4-	
			SCENE TRACK 4-	
			AUTO TRACK	
			TGP OFFSET	
			R (LST)	
			ES	
	4.3			
	4.3			
			N - A/G	
			N - A/A Radar	
5	A/G	WEAPONS	_	5-1
	5.1		ISON	_
	5.2			
				5-3
				5-3
	5.3			5-3
				5-3
				5-4
	_			5-4
	5.4			5-5
		5.4.2 JDAM/JSOW - TOO W	/PT	5-6

	5.	.4.3 JD	AM/JSOW							
	5.5 L	ASER GL	JIDED MU	NITIONS	3	 	 	 	5-8	
	5.	-	SU-12 PAV							
			SU-24 PAV							
			//AVERICK							
			M-65F/G I							
			M-65E LA							
			HARM RM - TOO							
			.RM - SP .							
			RM - PUL							
			RM - PB li							
			.RM - PB S							
	5.		RM - A/C							
	5.		RM - HRM							
	5.8 A	GM-84D	HARPOO	N		 	 	 	5-11	
	5.	.8.1 HA	RPOON -	BOL .		 	 	 	5-12	
	5.	.8.2 HA	RPOON -	R/BL .		 	 	 	5-12	
	5.9 A		SLAM & S							
			AM - SETU							
			AM - TOO							
			AM - TOO	_					-	
			AM - TOO							
			AM - PP . AM - LAUI							
			VALLEYE I							
			iM-62 WAL							
			iM-62 WAL							
			RVIEW							
			_							
О		EAPONS	> JN						6-1	
			אוכ 1 - NO RA							
			61 - RADAF							
			EWINDER							
			/I-9 - NO F							
	6.		/I-9 - RAD/							
			Л-9X - JHN							
	6.3 A	IM-7 SPA	ARROW .			 	 	 	6-4	
			/I-7F - RAI							
			MRAAM .							
			/I-120 - ST							
	6.	.4.2 AIN	/I-120 - TV	/S		 	 	 	6-5	

Chapter 1

PROCEDURES

Contents

1.1	START	-UP
	1.1.1	PRE-START
	1.1.2	ENGINE START
	1.1.3	POST-START
1.2	TAKEC	DFF & LANDING
	1.2.1	PRE-TAXI
	1.2.2	TAKEOFF - SHORE
	1.2.3	TAKEOFF - CARRIER1-8
	1.2.4	LANDING - SHORE
	1.2.5	LANDING - CARRIER CASE I
	1.2.6	LANDING - CARRIER CASE III
	1.2.7	LANDING - ICLS CASE III
1.3	IN-FLI	GHT1-16
	1 2 1	A/A REFLIELING

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 Light verify OFF (b) APU Switch ON (c) READY Light illuminated (30s)		
5.	Right Engine Start	(a) ENG CRANK R (b) R Eng RPM 15-25% (c) R Throttle IDLE		
6.	Stabilized Parameters	 IFEI		
7.	Master Caution	RESET		
8.	Displays	(a) Left DDI ON (b) Right DDI ON (c) AMPCD ON		
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)		
	1-3			

PF	ROCEDURES	F/A-18C REV: 20220304
11.	Left Engine Start	(a) ENG CRANK L (b) L Eng RPM
12.	Stabilized Parameters	 IFEI
		Cautions none for ENG 1L GEN Caution Extinguished

1.1.3	POST-START	
1.	Canopy	CLOSED
2.	Start INS Align	(a) INS SelectorGND or CV (as required) (b) HSIselect 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
9.	ANTI SKID	OFF if CV, else ON
10.	Trim	PRESS T/O Trim
11.	PITOT	AUTO
12.	Displays	(a) Left DDI HUD Repeater (b) Right DDI FCS Page

PR	ROCEDURES	F/A-18C REV: 20220304
13.	RADALT Warning	• GND
14.	Standby Attitude Indicator	UNCAGED
15.	Bingo Fuel	As desired (8000lbs)
16.	Altimeter	Set
17.	Mission Data	ENTER
18.	Weapons/Sensors	As Required
19.	STORES Page	Verify proper inventory installed
20.	HMD Alignment	(a) SUPT/HMD/ALIGN PageSELECT (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/UNCAGE PRESS & RELEASE (c) With FA DROLL displayed, use TDC to align roll axis HMD alignment crosses with HUD/BRU alignment cross (d) CAGE/UNCAGE PRESS & RELEASE
21.	OBOGS	ON
22.	Complete INS Align	INS Selector to NAV or IFA (if available)
23.	Defensive Systems	(a) ALR-67 RWR ON (b) ECM Selector STBY (c) Dispenser ON (middle)
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

28. Audio

Volume as required

1.2 TAKEOFF & LANDING

1.2.1 PRE-TAXI 1. **ANTI SKID** As required • Field - ON · Carrier - OFF **FLAPS** 2. **HALF CHOCKS** 2. **REMOVED LAUNCH BAR** 2. **RETRACTED** 2. **HOOK BYPASS** As required **PARKING BRAKE DISENGAGED** 2.

1.2.2 TAKEOFF - SHORE

	After Lining Up On Runway				
2.	ANTI SKID SPOILER BK	BOTH (UP)			
3.	FLAPS	UP			
4.	TRIM	T/O			
5.	NWS	LOW GAIN			
6.	Takeoff	(a) BRAKES hold (b) THROTTLE MIL (c) BRAKES release (d) THROTTLE MAX if desired (e) Rotation approx 150 KIAS hold 7 deg AOA (f) GEAR UP < 240 KIAS (g) FLAPS AUTO once airborn (h) ALT BARO at 3000 agl			

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	(a) LAUNCH BAREXTEND when directed
	Preparation	(b) Throttle UP when directed
		(c) Taxi launch bar into shuttle
		(d) ThrottleIDLE when directed
		(e) Wait for holdback installation & checks
		(f) LAUNCH BARRETRACT
4.	Trim	2-3 deg nose up

NOTE

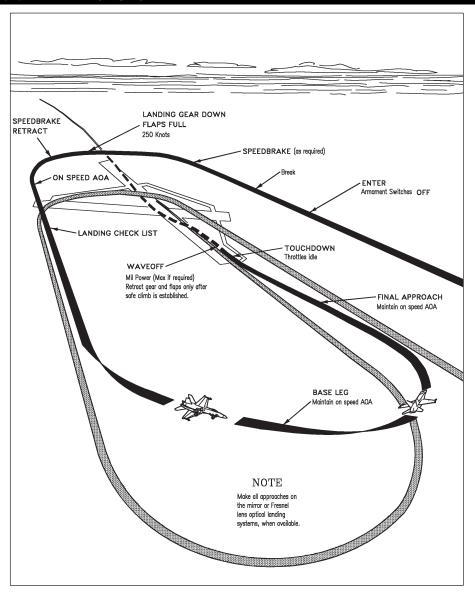
- Refer to CHKLST page for weight

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

5.	Speed Brakes	IN
6.	Final Checks	(a) Throttle MIL when directed (b) Control Wipeout
		 Stick Full Forward
		Stick Full Aft
		Stick Full Left
		Stick Full Right
		Rudder Full Left
		Rudder Full Right
		(c) Eng. Inst Checked (d) Caution/Warnings None

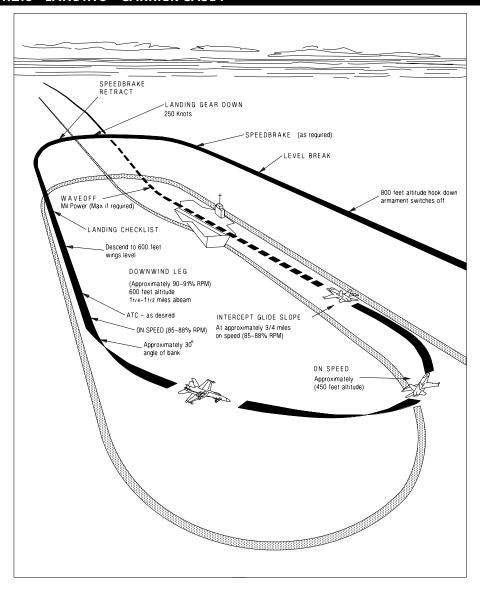
P	ROCEDURES	F/A-18C	REV: 20220304
7.	Catapult Shot	(b) Gear	
		` ' •	BARO at 3000 agl
8	Clearing Turn		

1.2.4 LANDING - SHORE



		1 11001/
1.	Initial Approach	• HOOK
		• ANTI-SKIDON
		• ALTRDR
		• Airspeed300-350 KIAS
		• Altitude800 ft
		• ARM OFF
2.	Initial Break	• Break Interval15-17 s
		SPEED BRAKEEXTEND
		ThrottleIDLE
		• G
		• Altitude800 ft
3.	Break Turn	Landing Gear DOWN at 250 KIAS
٠.		• FLAPS FULL at 250 KIAS
		• SPEED BRAKE RETRACT at 250 KIAS
4.	Downwind	• Altitudedescend to 600 ft
٦.	Dominia	• AOAON-SPEED
		· LANDING CHECKLIST
 5.	Final Turn	180 Deg Position
5.	Filial Tuffi	• Abeam Pos1-1.2 nmi
		90 Deg Position
		• AOA ON-SPEED
		• Altitude
6.	Intercept Glides-	• Distance
0.	lope	
	iope	• Altitude360 ft
	*	• AOAON-SPEED
7.	Touchdown	No more than 750 ft/min
		· DO NOT FLARE

1.2.5 LANDING - CARRIER CASE I



1.	Navigation	• TACANON 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	• HOOKDOWN
		• ALTRDR
		• RADALT 370 ft
		• ANTI-SKIDOFF
		HOOK BYPASSCARRIER
		• ARM OFF
		• HSI Zoom 10 nm
		Airspeed300-350 KIAS
		• Altitude800 ft
5.	Initial Break	• Break Interval15-17 s
		SPEED BRAKEEXTEND
		ThrottleIDLE
		• G
		• Altitude800 ft
6.	Break Turn	Landing Gear DOWN at 250 KIAS
		• FLAPS FULL at 250 KIAS
		• SPEED BRAKE RETRACT at 250 KIAS
7.	Downwind	Altitudedescend to 600 ft
		• AOA ON-SPEED
		· LANDING CHECKLIST
8.	Final Turn	180 Deg Position
		• Abeam Pos1-1.2 nmi
		90 Deg Position • AOAON-SPEED
		• Altitude
9.	Intercept Glides-	• Distance
J.	lope	• Altitude
		· AOAON-SPEED
10.	Touchdown	No more than 750 ft/min
	. 30011001111	• DO NOT FLARE

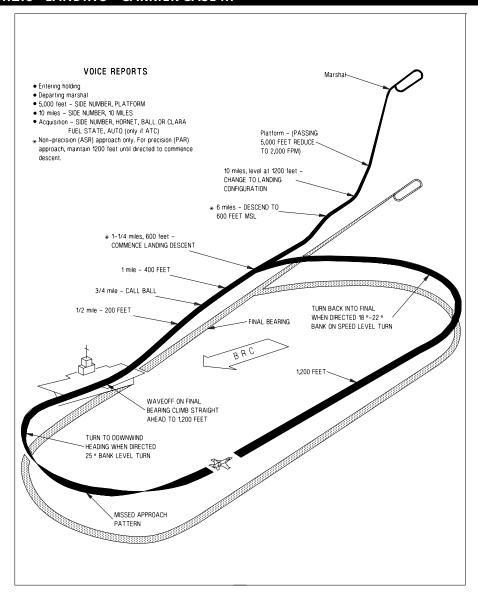
PROCEDURES F/A-18

REV: 20220304

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



Work In Progress

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

Content	S
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2.1	SYSTE	MS
	2.1.1	ARC-210 RADIO
	2.1.2	AFCS - MODES
	2.1.3	AFCS - PROCEDURES
	2.1.4	ATC - APPROACH MODE
	2.1.5	ATC - CRUISE MODE
2.2	NAVIG	ATION
	2.2.1	WAYPOINT
	2.2.2	WAYPOINT - ADD
	2.2.3	WAYPOINT - REMOVE
	2.2.4	WAYPOINT - EDIT LAT/LONG 2-6
	2.2.5	WAYPOINT - EDIT GRID COORDS 2-6
	2.2.6	WAYPOINT - PRECISE COORDS 2-6
	2.2.7	MARKPOINT
	2.2.8	MARKPOINT - ADD
	2.2.9	ADF
	2.2.10	TACAN
	2.2.11	AN/ALR-67 RWR
	2.2.12	AN/ALE-47 ACMDS
	2.2.13	AN/ALE-47 ACMDS - MODES
	2.2.14	AN/ALQ-165 ASPJ
	2.2.15	DATALINK
	2.2.16	IFF
	2217	SA PAGE 2-11

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	 Set desired channel with channel knob Enter desired Frequency on UFC, ENT 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	Press A/P OSB 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	 ATC button Flaps: AUTO WOW 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 button Flaps: HALF/FULL Sensor Failure

2.2 NAVIGATION

2.2.1 WAYPOINT

Waypoints	Pre-planned navigational points of reerence to follow on route to area of operation Maximum: 60
 Activate WAY- POINT Nav 	Press WYPT OSB on HSI
Select Sequence	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 UFCb) 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 OSBb) press GRID OSBc) 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/sec
	GRID: 6 digits
Precise Coordinates	LAT/LONG: deg/min/sec.xx
	GRID: 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
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 Markpoint 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
1)	Frequency	Determine TACAN frequency required
2)	UFC	 a) Press TCN OSB and cycle to ON b) Verify T/R mode active c) Input channel ## , ENT d) Set X/Y as required e) Set A/A mode if required
3)	HSI	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

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 17 18	F-14 F-15 F-16 C-17 F/A-18	Tomcat Eagle Fighting Falcon Globemaster III 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"

34	Su-34	"Fullback"
39	Su-25M	"Frogfoot"
52	B-52	Stratofortress
76	IL-76	"Candid"
78	IL-78	"Midas"
ΑN	AN-26B	"Curl"
	AN-30M	"Clank"
B1	B-1	Lancer
BE	Tu-95	"Bear"
BF	Tu-22	"Backfire"
BJ	Tu-160	"Blackjack"
E2	E-2	Hawkeye
E 3	E-3	Sentry
F4	F-4	Phantom
F-5	F-5	Tiger
НХ	Ka-27	"Helix"
KC	KC-135	Stratotanker
KJ	KJ-2000	"Mainring"
M2	Mirage	_
	2k	
S 3	S-3	Viking
SH	SH-60	Seahawk

2.2.12 AN/ALE-47 ACMDS

• ACMDS	Airborne Countermeasures Dispenser System
• Conditions	Master Arm: ON DISPENSER 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

• 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

Contents	
3.1	RWS - RANGE WHILE SEARCH
	3.1.1 RWS
	3.1.2 RWS - LTWS
3.2	TWS - TRACK WHILE SCAN
	3.2.1 TWS - DESIGNATION
	3.2.2 TWS - SCAN CENTERING METHODS 3-4
	3.2.3 TWS - SCAN RAID
	3.2.4 TWS - EXP
3.3	ACM - AIR COMBAT MANEUVERING
	3.3.1 ACM - BST
	3.3.2 ACM - VACQ
	3.3.3 ACM - WACQ
	3.3.4 ACM - GACQ
3.4	LOCK ACQUISITION 3-6
	3.4.1 STT 3-6
	3.4.2 AACQ
	3.4.3 JHMCS
3.5	MAP 3-7
	3.5.1 MAP
	3.5.2 MAP - DESIGNATION
	3.5.3 MAP - EXP1
	3.5.4 MAP - EXP2
	3.5.5 MAP - EXP3
	3.5.6 MAP - EXP DESIGNATION

AN/APG-73 RADAR F/A-18C REV: 20220304

3.5.7	GMT
3.5.8	GMT - GMTT
3.5.9	SEA
3.5.10	SEA - TARGET TRACKING

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 button RAID 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	\pm 1.7 deg vertical \pm 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 vertical 6 deg azimuth Range: 5nm
· Conditions	Master Mode: A/A HMD: OFF
Activation	SCS: FWD (enters BST) then AFT (enters VACQ)
Deactivation	UNDESIGNATE button

3.3.3 ACM - WACQ

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

3.3.4 ACM - GACQ

Gun Acquisition	-14 deg to +6 deg vertical 20 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/A TDC slaved to current radar screen
RWS Designation	TDC DEPRESS to STT
 LTWS Designation 	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/A TDC slaved to current radar screen Radar 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/A HMD: 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/G or SURF OSB on RDR ATTK page
• PEN	Scans small area on ground
2_/	

3-7

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

 Lowest resolution expanded mode Range: 40nm Azimuth: 45deg Not ground stabilized unless designation exists (snowplow)
Radar Mode: MAPTDC slaved to current radar screen
 EXP1 OSB Press & hold TDC DEPRESS Slew to desired region Release TDC DEPRESS Range will auto adjust
Boxing FAST scan option doubles radar's rate of scan for approximately half the scan quality
Area directly in front and at extreme edges of radar not visible
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	 EXP2 OSB Press & hold TDC DEPRESS Slew to desired region 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 x 1.2nm, constant area and resolution regardless of range
• Conditions	Radar Mode: MAPor Radar Mode: EXP1/EXP2TDC slaved to current radar screen
Activation	 EXP3 OSB Press & hold TDC DEPRESS Slew to desired region 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

3.5.6 MAP - EXP DESIGNATION

 Conditions 	Radar Mode: EXP (EXP3 recommended)TDC slaved to current radar screen
Activation	 Press & hold TDC DEPRESS Slew to desired spot Release TDC DEPRESS to designate
Symbology	Range will auto adjustCross marks designated point on RadarDiamond 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 high- lights & moving targets through doppler shift. Trackfiles displayed as bricks
•	Conditions	RDR: OPR Master Mode: A/G
•	Activation	press MAP OSB from A/G MAP page
•	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/G TDC slaved to current radar screen Radar 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: OPR Master Mode: A/G
 Activation 	press MAP OSB from A/G MAP page
Interleaved Option	Press INTL OSB GMT & MAP modes interleaved, mode is
	SEA/MAP

3.5.10 SEA - TARGET TRACKING

•	Conditions	Master Mode: A/GTDC slaved to current radar screenRadar Mode: SEA
•	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
Harpoon Conditions	Master Mode: A/G Target Locked HPD Mode: R/BL
Deactivation	UNDESIGNATE Button

Chapter 4

TGP & JHMCS

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4.1	AAQ-28	8 LITENING II
	4.1.1	CONTROLS
	4.1.2	POINTING METHODS 4-3
	4.1.3	POINTING METHODS - VVSLV 4-3
	4.1.4	POINTING METHODS - SNOWPLOW 4-4
	4.1.5	POINTING METHODS - STABILIZED POINTING 4-4 $$
	4.1.6	POINTING METHODS - WAYPOINT SLAVED 4-4
	4.1.7	POINTING METHODS - AREA TRACK 4-5
	4.1.8	POINTING METHODS - POINT TRACK 4-5
	4.1.9	POINTING METHODS - TGP OFFSET 4-5
	4.1.10	START-UP & LASING
	4.1.11	LASER SPOT TRACKER (LST) 4-6
	4.1.12	LASER MARKING
	4.1.13	A/A POINT TRACK
	4.1.14	A/A RADAR SLAVING 4-8
4.2	ASQ-2	28 ATFLIR
	4.2.1	CONTROLS
	4.2.2	POINTING METHODS 4-9
	4.2.3	POINTING METHODS - WSLV 4-9
	4.2.4	POINTING METHODS - SNOWPLOW
	4.2.5	POINTING METHODS - WAYPOINT SLAVED4-10
	4.2.6	POINTING METHODS - SCENE TRACK
	4.2.7	POINTING METHODS - AUTO TRACK
	4.2.8	POINTING METHODS - TGP OFFSET
		4 -

	4.2.9	LASER SPOT TRACKER (LST)
	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	5
	4.3.1	CONTROLS
	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
	4.3.8	TARGET DESIGNATION - A/A Radar
	439	AIM-9X - LIP-LOOK 4-14

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 short
		NAR/WIDE OSB
•	Toggle CCD/FLIR	RAID/FLIR Button long FLIR/CCD OSB
•	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 Snowplow 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
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 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 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

4.1.5 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

HSI: WYPT boxed on	• HSI:	slaved to current FLIR page Desired waypoint selected
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•	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 	Unstow TGP with VVSLV 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 • + cross (Offset Cursor) appears • Slew with TDC
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

1.	Start-Up	a) FLIR Switch: STBYb) Open FLIR page, monitor warm-upc) FLIR Switch: ON when STBY displayedd) Confirm mode displays OPR
2.	Unstow	a) Select VVSLVb) 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 OSBb) Press LTDC, enter desired codec) Press ENT
10.	Designate Target	TDC DEPRESS (will slave A/G weapons to TGP)
11.	Lasing	TRIG boxed: press & hold trigger to lase TRIG 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

		2. 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, or

- (a) TPOD on and ready
 (b) LTD/R ARM
- (c) SCS press in direction of FLIR to focus
- (d) VVSLV . press UNDESIGNATE twice rapidly to select vel vector slave mode (or press VVSLV OSB)
- (e) Snowplow press UNDESIGNATE twice rapidly to select snowplow mode(or press VVSLV OSB to deselect)
- (f) TDC slew to target
- (g) TDC depress to designate target
- (h) TRIGboxed
- (i) MARKboxed, activates M-Arm
- (j) Laser press TRIGGER to mark again to cease marking

4.1.13 A/A POINT TRACK

- (a) TPODon & ready
- (c) SCS in direction of FLIR display
- (d) VVSLV . press UNDESIGNATE twice rapidly to select vel vector slave mode (or press VVSLV OSB)
- (e) RTCL OSBpress to display reticle
- (f) Maneuver to place vel. vector near target aircraft
- (g) Zoom as desired
- (h) FLIR/CCD Modeas desired
 (i) SCStowards FLIR display to attempt Point Track
- (k) Dump Target SCS towards FLIR display

To slave radar to TPOD

- (l) Radar OPR
- (m) Point Trackacquired
- (n) FLIR Page press SLAVE OSB

4.1.14 A/A RADAR SLAVING

(a)	TPOD	on & ready
(b)	Radar	OPR
(c)	Master Mode	A/A
(d)	R DDI	RDR ATTK page
(e)	L DDI	FLIR page
(f)	SCS	towards RDR ATTK page
(g)	Radar Lock	acquired
(h)	RRSLV OSB	press, slaves TPOD to radar
(i)	SCS	towards FLIR page
(j)	Zoom	as desired
(k)	FLIR/CCD Mode	as desired
		towards ELID page to attempt Daint 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 Control Zoom OSBs
Toggle WFOV/MFOV/NAR	RAID/FLIR Button short FOV OSB
Toggle CCD/FLIR	RAID/FLIR Button long FLIR/CCD OSB
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 Snowplow 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
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 Conditions 	TDC slaved to current FLIR page
 Activation 	Press UNDESIGNATE twice or 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 page HSI: Desired waypoint selected HSI: 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 - SCENE TRACK

 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 • + cross (Offset Cursor) appears • Slew with TDC				
 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/G TGP: ON LST/NFLR: ON
•	Set Laser Code	 UFC OSB on FLIR page Press LSTC, enter Code on Keypad, ENT

T	GP	&	JH	MCS		F/A	\-18C		REV	': 202	2203	304
	_	_	_	_	100		_	_	_			

•	Begin Search	 Set TGP to Snowplow, slew to vicinity of laser Press LST OSB on FLIR page
•	Searching	FLIR image blank LST 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/A
	SCS: FWD short (<0.8s)
Toggle Selected Sensor	Master Mode: A/G
	SCS: FWD
	Toggles 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/G JHMCS: ON TDC 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

Contents		
5.1	SELEC	TIVE ORDNANCE JETTISON 5-3
5.2	FORW	ARD FIRING
	5.2.1	M61A2 GUN - A/G
	5.2.2	ROCKETS
5.3	UNGU	IDED FREE-FALL MUNITIONS 5-3
	5.3.1	UNGUIDED BOMB - CCIP 5-3
	5.3.2	UNGUIDED BOMB - CCRP 5-4
	5.3.3	MK-20 CLUSTER BOMB - CCIP 5-4
5.4	GPS G	SUIDED MUNITIONS
	5.4.1	JDAM/JSOW - PP
	5.4.2	JDAM/JSOW - TOO WYPT5-6
	5.4.3	JDAM/JSOW - TOO TPOD 5-7
5.5	LASEF	R GUIDED MUNITIONS
	5.5.1	GBU-12 PAVEWAY II
	5.5.2	GBU-24 PAVEWAY III
5.6	AGM-6	65 MAVERICK
	5.6.1	AGM-65F/G IR-MAV
	5.6.2	AGM-65E LASER-MAV
5.7	AGM-8	38C HARM
	5.7.1	HARM - TOO
	5.7.2	HARM - SP
	5.7.3	HARM - PULLBACK
	5.7.4	HARM - PB Intro
	5.7.5	HARM - PB Setup

5-1

A/G WEAPONS F/A-18C REV: 20220304

	5.7.6	HARM - A/C LOFT
	5.7.7	HARM - HRM LOFT
5.8	AGM-8	4D HARPOON
	5.8.1	HARPOON - BOL
	5.8.2	HARPOON - R/BL
5.9	AGM-8	4E SLAM & SLAM/ER
	5.9.1	SLAM - SETUP
	5.9.2	SLAM - TOO WYPT
	5.9.3	SLAM - TOO TPOD
	5.9.4	SLAM - TOO A/G RDR
	5.9.5	SLAM - PP
	5.9.6	SLAM - LAUNCH
5.10	AGM-6	2 WALLEYE II
	5.10.1	AGM-62 WALLEYE II
	5.10.2	AGM-62 WALLEYE II - D/L
5 11	A/G OV	/FRVIEW 5-20

A/G WEAPONS F/A-18C SELECTIVE ORDNANCE JETTISON (a) Master Arm ARM (c) Jettison Stores select desired jettison stations on pushbuttons (d) Selective Jett. Knob rotate to desired stations (e) Jett. Button press & hold 5.2 FORWARD FIRING 5.2.1 M61A2 GUN - A/G (a) Master ArmARM (c) SMS select GUN Rounds MK-50 or PGU-28 Firing Rate HI or LO Mode CCIP (d) Reticle on target (e) Fire once IN RNG cue (f) Break Away before X cue 5.2.2 ROCKETS (a) Master ArmARM (c) SMS select pod (68R) Firing Mode SGL or SAL MTR M4 or M66 Mode CCIP (d) Reticle on target (e) Fire once IN RNG cue appears (f) Break Away before X cue 5.3 UNGUIDED FREE-FALL MUNITIONS 5.3.1 UNGUIDED BOMB - CCIP

(a) Master Arm ARM

(b) Master ModeA/G

(c) SMS select desired bomb (82B)

(a) Create delivery PROG 1

A	/G WEAPONS
	(b) Mode
	 QTY bombs per release MULT bombs per salvo in release INT interval between salvo in feet
(f) (g) (h) (i)	Dive
5.3.	2 UNGUIDED BOMB - CCRP
(b)	Master Arm ARM Master Mode A/G SMS select desired bomb (82B)
(-I)	(a) Create delivery PROG 1 (b) Mode
(d)	UFC press OSB for UFC on SMS pageQTY bombs per release
	 MULT bombs per salvo in release INT interval between salvo in feet
(f) (g) (h) (i) (j) (k)	SCS FWD to slave TDC to HUD Symbology "Ball & Chain" Dive 25 deg to place vel vector on target TDC DEPRESS to designate target TDC SLEW target designator Level Flight keep vel vector aligned with ASL (azimuth steering line) Release when weapon cue appears, hold until all ordnance released Pull Up before vel vector reaches PULL UP cue
5.3.	3 MK-20 CLUSTER BOMB - CCIP
(a)	Master ArmARM

A	A/G WEAPONS F/A-18C RE	V: 20220304
(c)) SMS se	elect desired bomb (RE)
	(a) Create delivery PROG 1(b) Mode(c) MFUZ(d) HT OSB	VT
(d)) UFCpress l	JFC OSB on SMS page
	QTY bombs per releaseMULT bombs per salvo in releaseINT interval between salvo in feet	
(f) (g) (h) (i)) Dive	Impact Line over target ppears once computed CROSS & DIL on target CCIP CROSS on target
5.4	GPS GUIDED MUNITIONS	
5.4.	.1 JDAM/JSOW - PP	
Wea	apon Setup	
(a)) Coord.	G MIN SEC : DEC-SEC
(a)) Coord	G MIN SEC : DEC-SECwhile on ground
(a)) Coord.	G MIN SEC : DEC-SECwhile on ground for GOOD align (3 min)
(a) (b) (c) (d)	Coord. DE SMS (a) Select desired JDAM (J-82) or JSOW (JSA/JSC) (b) Wait (c) Mode (d) Fuzing JDAM Display Prelease Type QTY press QTY OSB select desired stations (reco	G MIN SEC : DEC-SECwhile on ground for GOOD align (3 min)PPINST ress JDAM DSPLY OSBMANUAL
(a) (b) (c) (d) (e) (f) (g)	Coord. DE SMS (a) Select desired JDAM (J-82) or JSOW (JSA/JSC) (b) Wait (c) Mode (d) Fuzing JDAM Display Prelease Type	G MIN SEC : DEC-SECwhile on ground for GOOD align (3 min)PPINST ress JDAM DSPLY OSBMANUAL ommend: all) press RTN P mean no coordinatesPress PP1 OSB
(a) (b) (c) (d) (e) (f) (g)	Coord. DE SMS (a) Select desired JDAM (J-82) or JSOW (JSA/JSC) (b) Wait (c) Mode (d) Fuzing JDAM Display Prelease Type QTY press QTY OSB select desired stations (reco OSB, now STEP OSB cycles between stations MSN Page crossed out P Select PP1	G MIN SEC : DEC-SECwhile on ground for GOOD align (3 min)PPINST ress JDAM DSPLY OSBMANUAL remmend: all) press RTN P mean no coordinatespress PP1 OSBpress TGT UFC OSB
(a) (b) (c) (d) (e) (f) (g)	Coord. DE SMS (a) Select desired JDAM (J-82) or JSOW (JSA/JSC) (b) Wait (c) Mode (d) Fuzing JDAM Display Prelease Type QTY press QTY OSB select desired stations (recoording of the coordinate) MSN Page crossed out Prelease Type Select PP1 Data Entry (a) HT (b) Return	IG MIN SEC: DEC-SECwhile on ground If or GOOD align (3 min)PPINST Tess JDAM DSPLY OSBMANUAL Dommend: all) press RTN TP mean no coordinatespress PP1 OSBpress TGT UFC OSBenter height for cluster dispersal (only for JSA)press TGT UFC twice eturn to main UFC page

A/G WEAPONS	
(d) Return press TGT UFC twice	
to return to main UFC pag (e) POSN	C NT
(g) LONinput DEG MIN SEC, EN input DEC-SEC, EN input DEC-SEC, EN	N T
(h) Returnpress TGT UFC twice to return to main UFC page	ce
(i) Verify	
Weapon Launch	
(a) Master Arm (b) Master Mode (c) SMS (c) SMS (d) R DDI (e) L DDI (f) Verify Maneuver (g) Maneuver (h) TMR Time to Minimum Rang (i) IN RNG (i) IN RNG (ii) Fire hold weapon release (k) Next system will auto cycle to next JDA (l) Verify MANUAL release, PP, desired static maneure Maneuver MANUAL release, PP, desired static maneure maneure MANUAL release, PP, desired static maneure	(G ed ge ge on es ge ge se M
Note each JDAM can have 4 PP targets	
5.4.2 JDAM/JSOW - TOO WYPT Weapon Setup	
(a) Waypoints	its EC
(b) SMSwhile on grour (a) Select desired JDAM (J-82) or JSOW (JSA/JSC)	nd
(a) Select desired (DAW (3-02) of 350W (35A 350) (b) Wait	Ó

F/A-18C A/G WEAPONS (c) JDAM Displaypress JDAM DSPLY OSB (e) QTY .. press QTY OSB select desired stations (recommend: all), press RTN OSB, now STEP OSB cycles between stations (f) MSN Page press TOO1 (q) 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 **Weapon Launch** (a) Master Arm ARM (c) SMS verify J-82 boxed (d) R DDIHSI page (e) L DDIJDAM page (f) Verify MANUAL release, TOO, desired station (g) HSI select waypoint 1 (h) Designate press WPDSG (i) Maneuver with steering cues (j) TMR Time to Minimum Range (I) Firehold weapon release (m) Next system will auto cycle to next JDAM (n) Verify MANUAL release, TOO, desired station (o) Repeat for remaining bombs & waypoints 5.4.3 JDAM/JSOW - TOO TPOD **Weapon Setup** (a) SMSwhile on ground (a) Select desired JDAM (J-82) or JSOW (JSA/JSC) (c) ModeTOO (d) FuzingINST (b) JDAM Display press JDAM DSPLY OSB (d) QTY .. press QTY OSB select desired stations (recommend: all), press RTN OSB, now STEP OSB cycles between stations (e) MSN Pagepress TOO1

GWEAPONS F/A-18C REV: 20220304 (f) Data Entry (a) TOO UFC (b) HTenter height for cluster dispersal (only for JSA) (c) Return press TGT UFC twice to return to main UFC (g) FLIRSTBY (h) DDI/AMPCDselect FLIR, monitor warm up (i) FLIR ON, once ready (k) LTD/RARM (I) SCS in direction of FLIR DDI/AMPCD (m) TDC slew TPOD reticle over target (n) SCS towards FLIR display to toggle PTRK tracks moving target (vehicle) ATRK track static target (o) **Designate** . depress TDC to designate target, coordinates will auto transfer to JDAM/JSOW (p) Verifyupdated coordinates in JDAM MSN page NOTE CAN ONLY GIVE COORD TO 1 JDAM, CANNOT TRANSFER COORD FROM TOO TO PP **WEAPON LAUNCH** (c) SMSverify J-82 boxed (d) AMPCDHSI (f) L DDIJDAM page (g) Verify MANUAL release, TOO, desired station (h) Maneuver with steering cues (i) TMR Time to Minimum Range (k) Firehold weapon release LASER GUIDED MUNITIONS 5.5

5.5.1 GBU-12 PAVEWAY II

(a) Master Arm ARM

F/A-18C (c) **SMS** select desired bomb (82LG) (a) Create delivery PROG 1 (c) MFUZOFF (d) EFUZDLY1 or INST (d) FLIRSTBY (e) DDI/AMPCDselect FLIR, monitor warm up (f) FLIR ON, once ready (g) LTD/RARM (h) SCSin direction of FLIR DDI/AMPCD (i) TDC slew TPOD reticle over target (j) SCS towards FLIR display to toggle • PTRK tracks moving target (vehicle) ATRK track static target (k) UFC OSBpress to set code on UFC (I) LTDCselect on UFC, set code , press ENT (m) **SMS** select 82LG (n) CODE OSB (o) UFC enter CODE (p) 82LG should display RDY (q) FLIR press TRIG OSB (r) Laser press gun trigger to fire (s) TDC . depress to designate laser as target (will slave A/G weapons to laser) (t) Level Flight keep vel vector aligned with ASL (azimuth steering line) (u) Releasewhen weapon cue appears, hold until ordnance released Note To drop other GBUs, must re-enter CODE for each bomb 5.5.2 GBU-24 PAVEWAY III 5.6 AGM-65 MAVERICK 5.6.1 AGM-65F/G IR-MAV **COOLING** begins upon first selection in SMS, weight on wheels inhibits cooling. Cooldown takes about 3 minutes (b) SMS select MAVF (c) Waitfor cooldown (d) Master ArmARM (e) TAC Page select IMAV DSPLY OR SMS select MAVF twice

A/G WEAPONS F/A-18C REV: 20220304 (g) SCS towards MAV feed (usually L DDI) (h) FOVas desired (i) Cage/Uncaged Caged seeker points at boresight Uncaged missile attempts to lock on to contrast (i) TDCslew WHILE depressing (k) Release TDC MAV will attempt to lock on, good range 7.5 miles (I) LOCK ON cross will disappear (m) Firehold weapon release 5.6.2 AGM-65E LASER-MAV (b) Master ArmARM (c) SMS select MAV (b) FuzingINST (d) MAV DSPLYpress UFC OSB (edits ALL laser codes at once) (e) CODEenter on UFC (f) FLIRSTBY (g) DDI/AMPCDselect FLIR, monitor warm up (h) FLIR ON, once ready (i) LTD/RARM (j) SCS in direction of FLIR DDI/AMPCD (k) TDC slew TPOD reticle over target (I) SCS towards FLIR display to toggle • PTRK tracks moving target (vehicle) ATRK track static target (m) UFC OSBpress to set code on UFC (n) LTDC select on UFC, set code , press ENT (o) FLIRpress TRIG OSB (p) Laser press gun trigger to fire (q) SCS to MAV DSPLY DDI (r) MAV DSPLY select desired station using STEP OSB (s) Uncagemissile NOTE MAV DSPLY must be selected, else will boresight TPOD (t) RDY indication & MAV LKD in HUD indicates ready to fire (u) Firehold weapon release

A/G WEAPONS | F/A-18C | REV: 20220304

5.7 AGM-88C HARM

5.7.1 HARM - TOO
(a) Master Arm
(c) R DDI
(d) L DDI
(f) SCS towards HARM DDI
(g) Cycle Emitter depress RAID/FLIR to cycle, consult HUD, RWR or EW page
(h) Maneuveralign target icon with cross of seeker
(i) Handoffpress CAGE/UNCAGE to lock seeker to target
(j) Firehold weapon release
5.7.2 HARM - SP
(a) Master ArmARM
(b) Master Mode
(c) R DDI
(d) L DDI
(e) Mode
(g) Firehold weapon release
(9) The third weapon release
5.7.3 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
NOTE HARM OVRD on SWS must be unboxed
(a) Master ArmARM
(b) Master Mode
(c) HRM OVRD
(d) RWR
(f) Fire

5.7.4 HARM - PB Intro

5.7.5 HARM - PB Setup

5.7.6 HARM - A/C LOFT

5.7.7 HARM - HRM LOFT

5.8 AGM-84D HARPOON

5.8.1 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

	Master Arm ARM
	Master Mode
	SMS select HPD OSB
	Alignmonitor from SMS (25 s)
(e)	Program Parameters
	(a) UFC press UFC OSB
	(b) SRCHinput Search Point, ENT
	(c) DSTRinput Self Destruct, ENT
	(d) BRGinput Bearing, ENT
(f)	SMS
	(a) Mode BOL
	(b) FLT
	(c) Term. SKIM/POP
(g)	
ιο,	FXP/HPTP
	 FXP Fixpoint, located 1/2 dis between SRCH and DSTR point, har- poon will fly to FXP and hold that bearing
	HPTP Harpoon Turnpoint
	select waypoint, press HPTP OSB, harpoon will fly to HPTP, then BRG
(i)	IN ZONEfollow steering cues until IN ZONE cue appears
(j)	Alt
	gpositive
(l)	Firehold weapon release

5.8.2 HARPOON - R/BL

Launch Parameters

TGT Target must be designated with WPDSG from HSI, TPOD by depressing TDC, or RDR

(m) **RADALT**

A/G WEAPONS F/A-18C REV: 20220304

- FLT HIGH 35k, MED 15k, LOW 5k
- TERM SKIM/POP
- SEEK search area, SML/MED/LRG
- - (h) Firehold weapon release
 (i) RADALTwarning normal

5.9 AGM-84E SLAM & SLAM/ER

- (c) SMS Page

(a) SLAM OSBpress to power on

- (g) **FLT OSB** select HIGH (35000) MED (15000) or LOW (5000)
- (d) Slam Display press SLAM DSPLY OSB

A/G WEAPONS F/A-180	REV: 20220304
(a) REL TYPE	
(b) UFC OSB	
(c) DIST	(distance for seeker activation)
(d) UFC OSB	·
5.9.2 SLAM - TOO WYPT	
(a) Weapon Setup	complete Refer to Setup Section
(b) SLAM DSPLY	
(a) MODE	enter mission page
(d) ORP	blank (no target selected)
(c) TERM (Optional)	press TERM OSB
(a) TOO UFC OSB (b) HDG/ANG/VEL	
(d) O/S UFC (Optional)	press input offset to target
(e) HSI Page	
(a) WYPT OSB	•
(b) WYPT	
(f) Verify	
(g) Range	
(h) Cues	steering, range target diamond, SLAM
(i) MSN Page	press RETURN OSB to return to SMS
(j) Weapon Launch & Control	Refer to Launch Section
5.9.3 SLAM - TOO TPOD	
(a) Weapon Setup	complete
(a) Weapon Cetup	Refer to Setup Section

(b) **SLAM DSPLY**

	REV: 20220304
(a) MODE	
(b) MSN OSB	
(c) TOO1/2 OSB	
(d) ORP	
(c) TERM (Optional)	
(a) TOO UFC OSB(b) HDG/ANG/VEL	
(d) O/S UFC (Optional)	input offset to target
(e) FLIR	
(g) FLIR	•
(h) SCSi	
(i) VVSLVpress UNDE	
(j) Snowplow press UNDESIGNATE	twice again to unselect VVSLV
(k) TDC	•
(I) Designate	
(m) Verify	ORP coordinates in MSN page
(n) Range	. •
(1)	in HSI page
(o) Cues	steering, range
	target diamond, SLAM
Note TPOD range less than SLAM range, IN RNG	cue already possible
Note if Ob range less than SEAM range, IN Tillo	cue alleady possible
(p) MSN Page	
(p) MSN Page	
	press RETURN OSB to return to SMS
(p) MSN Page	press RETURN OSB
(p) MSN Page	press RETURN OSB to return to SMS
(p) MSN Page(q) Weapon Launch & Control	press RETURN OSB to return to SMS Refer to Launch Section complete
(p) MSN Page (q) Weapon Launch & Control 5.9.4 SLAM - TOO A/G RDR (a) Weapon Setup	press RETURN OSB to return to SMS Refer to Launch Section
(p) MSN Page (q) Weapon Launch & Control 5.9.4 SLAM - TOO A/G RDR (a) Weapon Setup (b) SLAM DSPLY	press RETURN OSB to return to SMS Refer to Launch Section complete Refer to Setup Section
(p) MSN Page (q) Weapon Launch & Control 5.9.4 SLAM - TOO A/G RDR (a) Weapon Setup (b) SLAM DSPLY (a) MODE	press RETURN OSB to return to SMS Refer to Launch Section complete Refer to Setup Section
(p) MSN Page (q) Weapon Launch & Control 5.9.4 SLAM - TOO A/G RDR (a) Weapon Setup (b) SLAM DSPLY (a) MODE (b) MSN OSB	press RETURN OSB to return to SMS Refer to Launch Section complete Refer to Setup Section TOOenter mission page
(p) MSN Page (q) Weapon Launch & Control 5.9.4 SLAM - TOO A/G RDR (a) Weapon Setup (b) SLAM DSPLY (a) MODE (b) MSN OSB (c) TOO1/2 OSB	press RETURN OSB to return to SMS Refer to Launch Section complete Refer to Setup Section TOOenter mission pageselect
(p) MSN Page (q) Weapon Launch & Control 5.9.4 SLAM - TOO A/G RDR (a) Weapon Setup (b) SLAM DSPLY (a) MODE (b) MSN OSB (c) TOO1/2 OSB (d) ORP	press RETURN OSB to return to SMS Refer to Launch Section complete Refer to Setup Section TOOenter mission pageselectblank (no target selected)
(p) MSN Page (q) Weapon Launch & Control 5.9.4 SLAM - TOO A/G RDR (a) Weapon Setup (b) SLAM DSPLY (a) MODE (b) MSN OSB (c) TOO1/2 OSB	press RETURN OSB to return to SMS Refer to Launch Section complete Refer to Setup Section TOO enter mission page select blank (no target selected) press TERM OSB

A/G WEAPONS F/A-18C REV	20220304
(b) HDG/ANG/VEL	
(d) O/S UFC (Optional)	press nput offset to target
(e) RDR ATTK Page (f) SCS (g) EXP	select
(a) EXP1 OSB	•
(c) Enter EXP1	release TDC
(h) TDC wh	DEPRESS & hold hile slewing to target
(i) Designate	0 0
Note A-G Radar not very precise if visibility allows use FLIR	
(j) Verify	
(k) RangeMin	
(I) Cues targ	in HSI page steering, range get diamond, SLAM
Note A-G Radar range (30-40nm) less than SLAM range, IN F possible	RNG cue already
(m) MSN Page	oress RETURN OSB to return to SMS
(n) Weapon Launch & Control Refer	to Launch Section
5.9.5 SLAM - PP	
	complete er to Setup Section
(b) SLAM DSPLY (a) MODE	enter mission page
(c) TOO1/2 OSB	

A	G WEAPONS F/A-180	REV: 20220304
(c)	TERM (Optional)	press TERM OSB
()	(a) TOO UFC OSB	•
	(b) HDG/ANG/VEL	•
(d)	O/S UFC (Optional)	•
()	(opinion)	input offset to target
(e)	Coord	prepare in format
		DEG MIN SEC : DEC-SEC
٠,	MSN Pagecr	
	Select PP1	·
(n)	Data Entry	
	(a) ELEV	
	(b) Return	to return to main UFC page
	(c) POSN	. •
	(d) LAT	
	(-7	ENT, input DEC-SEC, ENT
	(e) LON	input DEG MIN SEC,
		ENT, input DEC-SEC, ENT
	(f) Return	
•		to return to main UFC page
(i)	Verify	
	(a) PPI	•
	(b) TGT	
(j)	Range	
(14)	Cues	in HSI page
(K)	Cues	target diamond, SLAM
(1)	MSN Page	
(-)		to return to SMS
(m)	Weapon Launch & Control	
		Refer to Launch Section
5.0	6 SLAM - LAUNCH	
(a)	Weapon Setup	Refer to Setup Section
(b)	Target Designation	
(ڪ)		Refer to Designation Sections
(c)	R DDI	
` '	L DDI	SMS page
(e)	Verify	
	(a) Misile	RDY

F/A-18C A/G WEAPONS REV: 20220304 (b) Master ArmARM (c) Release Profileset Cues TTS (Time-To-Seeker) time until seeker active and controllable by pilot TMR time until max launch range Target Diamond shows target in HUD IN RNG within max launch range (f) Datalink (a) SLAMunboxed (b) DL13boxed (c) UFC OSBpress (d) UFC input missile station, ENT (sets DL channel) (e) UFC OSB press to deselect (f) Sensor Select Switchtowards DL Feed (g) VerifyIN RNG (h) Fire hold WEAPON RELEASE (i) Clearing Turn recommended (j) TTS 0 Seeker uncaged DL Feed active if turned aircraft away from missile (n) Steer DEPRESS & hold while slewing (o) Lock On release TDC 5.10 **AGM-62 WALLEYE II** 5.10.1 AGM-62 WALLEYE II (a) Master ArmARM (c) SMS select WEDL (a) TV Feedselect WEDL OSB again (b) Fuzing as desired

A/G WEAPONS F/A-18C REV: 20220304

- (d) SCS towards walleye feed DDI

 (e) Cage/Uncage when uncaged the bomb will attempt to lock on to contrast

 (f) TDC DEPRESS & hold while slewing

 (g) LOCK ON RDY indication next to station, WE no longer crossed out in HUD, WEDL no longer crossed out in SMS

 (h) Fire hold weapon release

 5.10.2 AGM-62 WALLEYE II D/L

 (a) Master Arm ARM

 (b) Master Mode ARM

 (c) 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

- (d) SCStowards DL feed
- (g) LOCK ON RDY indication next to station, WE no longer crossed out in HUD, WEDL no longer crossed out in SMS
- (h) Firehold weapon release
- (i) Steer DEPRESS & hold TDC

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

5.11 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
	La	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	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

Chapter 6

A/A WEAPONS

\sim		
<i>1</i> - ~	nte	nto

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6.1	M61A2	GUN	-3
	6.1.1	M61 - NO RADAR	-3
	6.1.2	M61 - RADAR	-3
6.2	AIM-9	SIDEWINDER	-3
	6.2.1	AIM-9 - NO RADAR	-3
	6.2.2	AIM-9 - RADAR	-3
	6.2.3	AIM-9X - JHMCS	-4
6.3	AIM-7	SPARROW	-4
	6.3.1	AIM-7F - RADAR	-4
6.4	AIM-12	0 AMRAAM	-5
	6.4.1	AIM-120 - STT	-5
	0.40	ADA 400 TAIO	_

A/A WEAPONS F/A-18C REV: 20220304

6.1 M61A2 GUN

0.1	MOIAZ GUN
6.1.	1 M61 - NO RADAR
(a)	Master ArmARM
` '	Radar OFF
(c)	Weapon Select
(d)	SMS
	• Rounds MK-50 or PGU-28
	Firing Rate HI or LO
(e)	FireTRIGGER
6.1.	2 M61 - RADAR
(a)	Master ArmARM
٠,	Radar OPERATE
	Weapon Select
(d)	SMS
	• Rounds MK-50 or PGU-28
	Firing Rage HI or LO
(e)	Radar ACM GACQ (occurs automatically)
` '	Maneuverplace pipper over target
(g)	FireTRIGGER
6.2	AIM-9 SIDEWINDER
	.1 AIM-9 - NO RADAR
` '	IR CoolNORM
` ,	Master ArmARM
٠,	Radar OFF
	Weapon SelectSIDEWINDER (fwd)Cage/UncageDEPRESS
	Maneuver place target in seeker (good tone)
	Fire
(3)	
6.2	.2 AIM-9 - RADAR
(a)	IR CoolNORM
. ,	Master Arm ARM
	Radar OPERATE
, ,	Weapon Select
. ,	SCS
(1)	Select Sub Mode with further depresses
	BST Boresight

A/A WEAPONS F/A-18C REV: 20220304

- VACQ Vertical Acquisition
- WACQ Wide Acquisition
- (g) Maneuver place target in lock on zone
- (h) Cage/Uncagedepress
- (i) Maneuver place steering dot inside ASE/NIRD circle
- (j) FireTRIGGER

6.2.3 AIM-9X - JHMCS

- (a) IR CoolNORM
- (c) Master ArmARM

- (g) Fire on good tone

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

- (a) Radar OPERATE
- (b) R DDIRDR ATTK page
- (c) Master ArmARM
- (e) SMS
 - Size SML/MED/LRG
 - HELO as desired
 - Desired sparrow type
- (f) Sensor Select Switch . RIGHT to select BVR/RWR mode and slave TDC to R DDI
- (g) Radar Range Scaleas desired
- (h) Radar Azimuth Rangeas desired
- (i) Radar Bar Modeas desired
- (j) Aantenna Elev.choose optimum

A/A WEAPONS F/A-18C REV: 20220304

(k) Lock Target	TDC DEPRESS over target
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- (I) Maneuver place target in ASE circle (will cause STT lock)
- (m) Maneuver place steering dot inside ASE/NIRD circle
- (n) 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
(a)	Radar OPERATE
	R DDI
(c)	Master ArmARM
(d)	Weapon Select AMRAAM (right)
(e)	SMS
	• Size SML / MED / LRG
	Select desired AMRAAM station
(f)	Sensor Select Switch . RIGHT to select BVR/RWR mode and slave TDC to R DDI
(g)	Radar Range Scaleas desired
(h)	Radar Azimuth Rangeas desired
	Radar Bar Modeas desired
	Antenna Elev
	Lock Target place TDC over target and depress
	Maneuver place target in ASE circle (will cause STT lock)
(m)	Maneuver place steering dot inside ASE/NIRD circle
(n)	once SHOOT cue annears

6.4.2 AIM-120 - TWS

