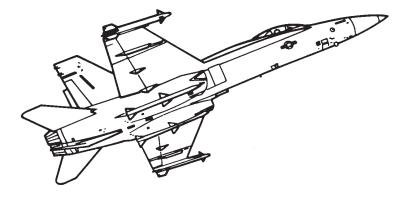
# **Pocket Checklist**

# F/A-18C AIRCRAFT

**REV: 20220529** 



**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	OCEDURES 1-1		
	1.1	START-UP 1-3		
		1.1.1 PRE-START 1-3		
		1.1.2 ENGINE START		
		1.1.3 POST-START		
	1.2	TAKEOFF & LANDING		
		1.2.1 PRE-TAXI		
		1.2.2 TAKEOFF - SHORE		
		1.2.3 TAKEOFF - CARRIER		
		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-FLIGHT		
		1.3.1 A/A REFUELING		
2	cvc	TEMS 2-1		
_	2.1	SYSTEMS		
	۷.۱	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	NAVIGATION		
		2.2.1 WAYPOINT		
		2.2.2 WAYPOINT - ADD		
		2.2.3 WAYPOINT - REMOVE		
		2.2.4 WAYPOINT - EDIT LAT/LONG		
		2.2.5 WAYPOINT - EDIT GRID COORDS 2-6		
		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	. 2-9
		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	
		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	
	3.2	TWS - TRACK WHILE SCAN	
		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	
		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	
	۰	3.4.3 JHMCS	
	3.5	MAP	
		3.5.1 MAP	
		3.5.2 MAP - DESIGNATION	
		3.5.3 MAP - EXP1	
		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	. 3-11
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	
		415 DOINTING METHODS - STARILIZED DOINTING	1 1

		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	4-6
		4.1.11	LASER SPOT TRACKER (LST)	4-6
		4.1.12	LASER MARKING	4-7
		4.1.13	A/A POINT TRACK	4-7
		4.1.14	A/A RADAR SLAVING	4-8
	4.2	ASQ-	228 ATFLIR	4-9
		4.2.1	CONTROLS	4-9
		4.2.2		
		4.2.3	POINTING METHODS - VVSLV	
		4.2.4		
		4.2.5	POINTING METHODS - WAYPOINT SLAVED	
		4.2.6	POINTING METHODS - SCENE TRACK	
		4.2.7	POINTING METHODS - AUTO TRACK	
		4.2.8		
			LASER SPOT TRACKER (LST)	
			A/A OPERATION MODES	
			A/A AUTO TRACK	
			A/A L+S SLAVE	
	4.3		S	
		4.3.1		
			SYMBOLOGY	
			SETUP - FORMAT	
		4.3.4		
		4.3.5	SETUP - REJECT	
		4.3.6	SETUP - MIDS	
		4.3.7	TARGET DESIGNATION - A/A Poder	
		4.3.8	TARGET DESIGNATION - A/A Radar	
		4.3.9	Allvi-9X - OP-LOOK	4-14
5	A/G	WEAF	PONS	5-1
	5.1		CTIVE ORDNANCE JETTISON	5-3
	5.2		ARD FIRING	
		5.2.1	M61A2 GUN - A/G	5-3
			ROCKETS	
	5.3	UNGL	JIDED 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 (	GUIDED MUNITIONS	5-5
		5.4.1	JDAM/JSOW - PP	
		5.4.2	JDAM/JSOW - TOO WYPT	5-6

		5.4.3 JDAM/JSOW - TOO TPOD	5-7
	5.5	LASER GUIDED MUNITIONS	5-8
		5.5.1 GBU-12 PAVEWAY II	5-8
		5.5.2 GBU-24 PAVEWAY III	5-9
	5.6	AGM-65 MAVERICK	5-9
		5.6.1 AGM-65F/G IR-MAV	5-9
		5.6.2 AGM-65E LASER-MAV	5-10
	5.7	AGM-88C HARM	5-11
		5.7.1 HARM - TOO	5-11
		5.7.2 HARM - SP	
		5.7.3 HARM - PULLBACK	5-11
		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	
		5.8.2 HARPOON - R/BL	
	5.9	AGM-84E 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	
	E 10	5.9.6 SLAM - LAUNCH	
	5.10	AGM-62 WALLEYE II	
		5.10.2 AGM-62 WALLEYE II - D/L	
	5 11	A/G OVERVIEW	
	5.11	A/G OVERVIEW	3 20
6	A/A	WEAPONS	6-1
	6.1	M61A2 GUN	6-3
		6.1.1 M61 - NO RADAR	6-3
		6.1.2 M61 - RADAR	6-3
	6.2	AIM-9 SIDEWINDER	6-3
		6.2.1 AIM-9 - NO RADAR	
		6.2.2 AIM-9 - RADAR	6-3
		6.2.3 AIM-9X - JHMCS	
	6.3	AIM-7 SPARROW	
	_	6.3.1 AIM-7F - RADAR	
	6.4	AIM-120 AMRAAM	
		6.4.1 AIM-120 - STT	
		6.4.2 AIM-120 - TWS	6-5

## Chapter 1

#### Contents

1.1	START	Г-UР
	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 1-7
	1.2.3	TAKEOFF - CARRIER 1-8
	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	GHT
	1 2 1	A / A DEFLIELING 1.16

# ROCEDURES F/A-18C REV: 20220529

#### 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	<b>ENGINE START</b>	
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 SwitchON (c) READY Lightilluminated (30s)
5.	Right Engine Start	(a) ENG CRANK       R         (b) R Eng RPM       15-25%         (c) R Throttle       IDLE
6.	Stabilized Parameters	• IFEI
		GPWS Voice AlertsCheck
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

<b>PROCEDURES</b>	F/A-18C	<b>REV: 20220529</b>

10.	BLEED AIR Knob	Cycle thru <b>OFF</b> to <b>NORM</b> (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 1     L GEN Caution Extinguished

#### 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
9.	ANTI SKID	OFF if CV, else ON
10.	Trim	PRESS T/O Trim
11.	PITOT	AUTO

PROCEDURES F/A-18C REV: 20220529				
12.	Displays	(a) Left DDI HUD Repeater (b) Right DDIFCS Page		
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	<ul> <li>(a) SUPT/HMD/ALIGN PageSELECT</li> <li>(b) Superimpose HMD alignment cross on HUD/BRU alignment cross</li> <li>(c) CAGE/UNCAGEPRESS &amp; HOLD until ALIGN OK</li> <li>Fine Align</li> <li>(a) With FA DXDY displayed, use TDC to align azimuth and elevation HMD alignment crosses with HUD/BRU alignment cross</li> <li>(b) CAGE/UNCAGEPRESS &amp; RELEASE</li> <li>(c) With FA DROLL displayed, use TDC to align roll axis HMD alignment crosses with HUD/BRU alignment crosses</li> <li>(d) CAGE/UNCAGEPRESS &amp; RELEASE</li> </ul>		
21.	OBOGS	ON		
22.	Complete INS Align	INS Selector to NAV or IFA (if available)		
23.	Defensive Systems	(a) ALR-67 RWRON(b) ECM SelectorSTBY(c) DispenserON (middle)		
24.	Lights	(a) Strobe         ON           (b) POS Lights         BRT           (c) LDG/TAXI Lights         ON		
25.	Network	(a) <b>IFF</b>		

# PROCEDURES F/A-18C REV: 20220529

26.	Parking Brake	DISENGAGE
27.	Chocks	REMOVED
28.	Audio	Volume as required

#### 1.2 TAKEOFF & LANDING

#### 1.2.1 PRE-TAXI As required 1. **ANTI SKID** • Field - ON • Carrier - OFF **FLAPS** 2. **HALF** 2. **CHOCKS REMOVED** 2. **LAUNCH BAR 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	

#### 1.2.3 TAKEOFF - CARRIER

	Lineup	<ul> <li>Wait behind JBD until Catapult is clear</li> <li>Follow Taxi Directors Instructions to line up on Catapult</li> </ul>
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) ThrottleUP when directed (c) Taxilaunch bar into shuttle (d) ThrottleIDLE when directed (e) Wait for holdback installation & checks (f) LAUNCH BARRETRACT
4.	Trim	2-3 deg nose up

#### NOTE

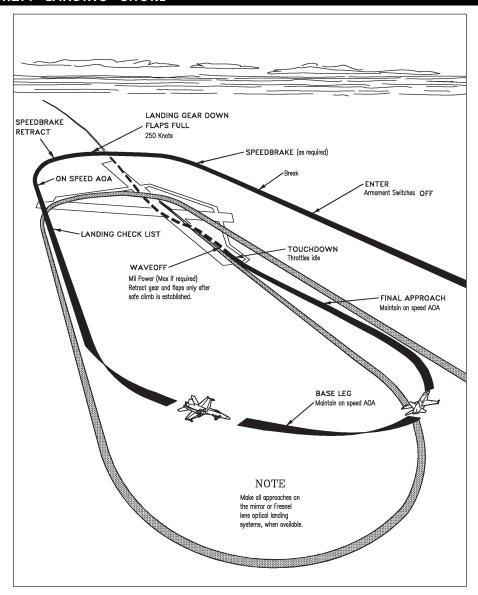
• Refer to **CHKLST** page for weight

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

5.	Speed Brakes	IN
6.	Final Checks	(a) Throttle
		<ul> <li>Stick Full Forward</li> <li>Stick Full Aft</li> <li>Stick Full Left</li> <li>Stick Full Right</li> <li>Rudder Full Left</li> <li>Rudder Full Right</li> </ul>
		(c) Eng. Inst Checked (d) Caution/Warnings None

<b>PROCEDURES</b>		F/A-18C	<b>REV: 20220529</b>
7.	Catapult Shot	(b) <b>Gear</b>	CAT SHOTUP < 240 KIASAUTOBARO at 3000 agl
8.	Clearing Turn		

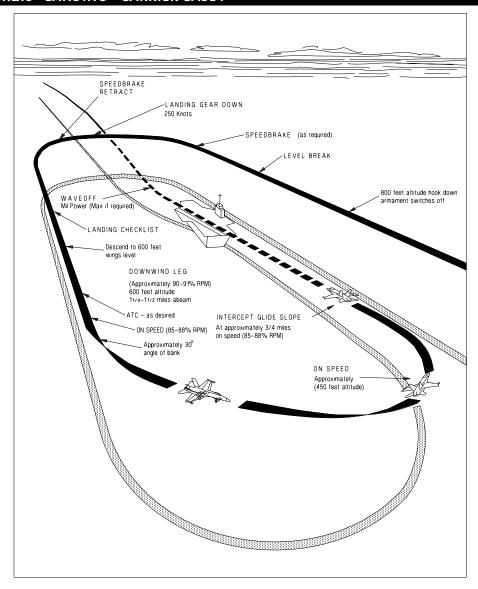
#### 1.2.4 LANDING - SHORE



PROCEDURES F/A-18C REV: 20220529

1.	Initial Approach	• HOOK
		• ANTI-SKIDON
		• ALT
		• Airspeed
		• Altitude 800 ft
2	Initial Break	• ARM OFF • Break Interval
۷.	initiai Break	SPEED BRAKE EXTEND
		• Throttle
		• G
3.	Break Turn	• Altitude
٥.	break rum	<ul> <li>Landing Gear DOWN at 250 KIAS</li> <li>FLAPS FULL at 250 KIAS</li> </ul>
	Danneninal	SPEED BRAKE RETRACT at 250 KIAS
4.	Downwind	Altitude descend to 600 ft
		• AOA ON-SPEED
_	Eine I Term	LANDING CHECKLIST      LOOP AND DESCRIPTION
5.	Final Turn	180 Deg Position  • Abeam Pos1-1.2 nmi
		90 Deg Position
		• AOA ON-SPEED
		• Altitude 400-500 ft
6.	Intercept Glides-	• Distance
٥.	lope	• Altitude
		• AOA ON-SPEED
7.	Touchdown	No more than 750 ft/min
,.	· Oddildoffii	• DO NOT FLARE
		- DOMOTTEANL

#### 1.2.5 LANDING - CARRIER CASE I

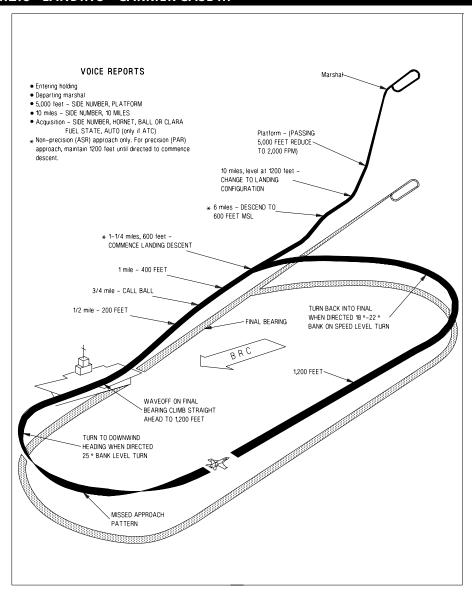


PF	ROCEDURES	F/A-18C REV: 20220529
1.	Navigation	TACANON and tuned     HSI
		- TCN - BOXED - CRS - BRC
2.	Pattern Entry	• Distance – approx 5 nm
	1 4110.111	Heading – BRC
		Line Up - Right of CV
		Airspeed – 300-350 KIAS
		Altitude – 800 ft
3.	Pre-Break	• HOOK
		• ALTRDR
		• RADALT 370 ft
		• ANTI-SKIDOFF
		HOOK BYPASSCARRIER
		• ARM OFF
		• HSI Zoom10 nm
		Airspeed300-350 KIAS
		• Altitude800 ft
5.	Initial Break	• Break Interval15-17 s
		SPEED BRAKE EXTEND
		• ThrottleIDLE
		• <b>G</b>
	Due els Trum	• Altitude
6.	Break Turn	Landing Gear DOWN at 250 KIAS  THAT A 250 KIAS  THAT A 250 KIAS
		<ul> <li>FLAPSFULL at 250 KIAS</li> <li>SPEED BRAKE RETRACT at 250 KIAS</li> </ul>
7.	Downwind	Altitude descend to 600 ft
7.	Downwind	• AOA ON-SPEED
		LANDING CHECKLIST
8.	Final Turn	180 Deg Position
		Abeam Pos1-1.2 nmi
		90 Deg Position
		• AOA ON-SPEED
	Internation Of I	• Altitude 400-500 ft
9.	Intercept Glides-	• Distance
	lope	• Altitude
10	Touchdown	• AOAON-SPEED
10.	Touchdown	No more than 750 ft/min     No. No. T. A.P.F.
		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



#### **Work In Progress**

#### 1.2.7 LANDING - ICLS CASE III

**Work In Progress** 

**PROCEDURES** 

F/A-18C REV: 20220529

1.3 IN-FLIGHT

#### 1.3.1 A/A REFUELING

**Work In Progress** 

# **Chapter 2**

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ILS		
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
	2.2.5	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 2-7
	2.2.10	TACAN 2-7
	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
	2 2 17	2.11

#### 2.1 SYSTEMS

#### 2.1.1 ARC-210 RADIO

• ARC-210	<ul> <li>Provides T/R of AM/FM in 30-399.975MHz</li> <li>Contains 2 radios: COMM1 &amp; COMM2</li> <li>Controlled from UFC</li> </ul>
<ul> <li>Power On</li> </ul>	Rotate Vol knobs of COMM1 & COMM2
Preset Channels	<ul> <li>M: Manual</li> <li>1-20: Preset Channels</li> <li>G: Guard (243.000)</li> <li>C: Cue Channel for SINCGARS</li> <li>S: Maritime (Sea)</li> </ul>
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
	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	<ul><li>Stick: Centered</li><li>HSD: heading selected (if required)</li></ul>	
• 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
<ul> <li>Activation</li> </ul>	ATC button
• Effect	Computer modulates thrust to maintain on speed AOA, pilot controls flightpath with pitch command
Deactivation	<ul> <li>ATC button</li> <li>Flaps: AUTO</li> <li>WOW</li> <li>Bank Angle &gt; 70deg</li> <li>Sensor Failure</li> </ul>

#### 2.1.5 ATC - CRUISE MODE

<ul> <li>Conditions</li> </ul>	• Flaps: AUTO
<ul> <li>Activation</li> </ul>	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 Se- quencing	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	<ul><li>a) press INS OSB on UFC</li><li>b) input desired number, ENT</li></ul>
4.	<b>Edit Coordinates</b>	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	<ul><li>a) press DEL OSB on UFC</li><li>b) input desired number, ENT</li></ul>

#### 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.	<b>Edit Coordinates</b>	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	<ul><li>a) press UFC OSB</li><li>b) press GRID OSB</li><li>c) HSI now displays Grid Menu</li></ul>
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 Naviga- tion	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 Mark- point 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
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

#### SYSTEMS

### F/A-18C

### **REV: 20220529**

#### 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"
B1	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: 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

<b>SYST</b>	EMS

### F/A-18C

**REV: 20220529** 

• 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**

**SYSTEMS** 

F/A-18C REV: 20220529

# **Chapter 3**

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: 202205

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
		<ul><li>LEFT: Assign TDC to left DDI</li><li>RIGHT: Assign TDC to right DDI</li></ul>

#### 3.1.2 RWS - LTWS

•	Latent Track While	RWS Submode
	Scan	Allows HAFU symbology for contacts and integration of offboard trackfiles
•	Activation	DATA subpage on Radar Page
•	HAFU Symbol- ogy	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
•	<b>L&amp;S</b> (Primary Target)	TDC DEPRESS while over trackfile

<ul> <li>Cycle L&amp;S</li> </ul>	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
<ul> <li>Conditions</li> </ul>	L&S trackfile selected
Activation	RAID button     RAID OSB
Deactivation	<ul><li>RAID deselect</li><li>RSET OSB</li><li>UNDESIGNATE button</li><li>L&amp;S lost</li></ul>

#### 3.2.4 TWS - EXP

•	EXP Mode	10nm x 20 deg centered around L&S
---	----------	-----------------------------------

<ul> <li>Conditions</li> </ul>	L&S trackfile selected
<ul> <li>Activation</li> </ul>	EXP OSB
• Deactivation	EXP OSB     RSET OSB     L&S lost

#### 3.3 ACM - AIR COMBAT MANEUVERING

3.3.1	3.3.1 ACM - BST		
•	Boresight	$\pm$ 1.7 deg vertical $\pm$ 3.3 deg azimuth Range: 10nm	
•	Conditions	<ul><li>Master Mode: A/A</li><li>HMD: OFF</li></ul>	
•	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
<ul> <li>Uncaged Wide Acquis.</li> </ul>	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	<ul><li>Master Mode: A/A</li><li>TDC slaved to current radar screen</li></ul>
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/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

<ul> <li>Conditions</li> </ul>	Radar: OPR
• Activation	<ul><li>Master Mode: A/G</li><li>or SURF OSB on RDR ATTK page</li></ul>
• PEN	Scans small area on ground

3-7

•	FAN	Broader/quicker scan, less defined image
		narrow in azimuth, broad in elevation

#### 3.5.2 MAP - DESIGNATION

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

#### 3.5.3 MAP - EXP1

• EXP1	<ul> <li>Lowest resolution expanded mode</li> <li>Range: 40nm</li> <li>Azimuth: 45deg</li> <li>Not ground stabilized unless designation exists (snowplow)</li> </ul>
• Conditions	<ul><li>Radar Mode: MAP</li><li>TDC slaved to current radar screen</li></ul>
• Activation	<ol> <li>EXP1 OSB</li> <li>Press &amp; hold TDC DEPRESS</li> <li>Slew to desired region</li> <li>Release TDC DEPRESS</li> <li>Range will auto adjust</li> </ol>
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
<ul> <li>Deactivation</li> </ul>	UNDESIGNATE button

#### 3.5.4 MAP - EXP2

• EXP2	<ul> <li>Next higher resolution from EXP1</li> <li>Range: 40nm</li> <li>Ground stabilized regardless if designation exists unless outside of radar gimbal limits</li> </ul>
• Conditions	<ul><li>Radar Mode: MAP</li><li>or Radar Mode: EXP1</li><li>TDC slaved to current radar screen</li></ul>
Activation	<ol> <li>EXP2 OSB</li> <li>Press &amp; hold TDC DEPRESS</li> <li>Slew to desired region</li> <li>Release TDC DEPRESS</li> <li>Range will auto adjust</li> </ol>
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	<ul> <li>Synthetic-Aperture Radar (SAR) Map</li> <li>Range: 30nm</li> <li>Ground stabilized even w/o designation.</li> <li>1.2 × 1.2nm, constant area and resolution regardless of range</li> </ul>
• Conditions	<ul><li>Radar Mode: MAP</li><li>or Radar Mode: EXP1/EXP2</li><li>TDC slaved to current radar screen</li></ul>
• Activation	<ol> <li>EXP3 OSB</li> <li>Press &amp; hold TDC DEPRESS</li> <li>Slew to desired region</li> <li>Release TDC DEPRESS</li> <li>Range will auto adjust</li> </ol>
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	<ul><li>Radar Mode: EXP (EXP3 recommended)</li><li>TDC slaved to current radar screen</li></ul>
Activation	<ol> <li>Press &amp; hold TDC DEPRESS</li> <li>Slew to desired spot</li> <li>Release TDC DEPRESS to designate</li> </ol>
• Symbology	<ul> <li>Range will auto adjust</li> <li>Cross marks designated point on Radar</li> <li>Diamond marks designated point on HUD</li> </ul>
• 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: OPR     Master Mode: A/G
• Activation	press MAP OSB from A/G MAP page
<ul> <li>Interleaved Option</li> </ul>	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	<ul> <li>Radar page: brick with motion vector, speed,</li> <li>&amp; heading</li> <li>HUD: diamond</li> <li>point can be used/slaved to by other sensors</li> </ul>
• 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/G     TDC slaved to current radar screen     Radar Mode: SEA
•	Activation	Slew TDC over desired target

	2. SCS: Towards current radar screen to command acquisition
• Symbology	<ul> <li>Radar page: brick with motion vector, speed,</li> <li>&amp; heading</li> <li>HUD: diamond</li> <li>point can be used/slaved to by other sensors</li> </ul>
Harpoon Conditions	Master Mode: A/G     Target Locked     HPD Mode: R/BL
Deactivation	UNDESIGNATE Button

## **Chapter 4**

#### **Contents**

4.1	AAQ-2	8 LITENING II
	4.1.1	CONTROLS
	4.1.2	POINTING METHODS
	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
4.2	ASQ-2	28 ATFLIR
	4.2.1	CONTROLS
	4.2.2	POINTING METHODS 4-9
	4.2.3	POINTING METHODS - VVSLV 4-9
	4.2.4	POINTING METHODS - SNOWPLOW
	4.2.5	POINTING METHODS - WAYPOINT SLAVED 4-10
	4.2.6	POINTING METHODS - SCENE TRACK
	4.2.7	POINTING METHODS - AUTO TRACK 4-11
	4.2.8	POINTING METHODS - TGP OFFSET 4-11
	4.2.6 4.2.7	POINTING METHODS - SCENE TRACK POINTING METHODS - AUTO TRACK

	4.2.9	LASER SPOT TRACKER (LST)4-11
	4.2.10	A/A OPERATION MODES
	4.2.11	A/A AUTO TRACK
	4.2.12	A/A L+S SLAVE
1.3	JHMC	S
	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
	4.3.9	AIM-9X - UP-LOOK

#### 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 Pointing	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
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<ul> <li>Conditions</li> </ul>	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
<ul> <li>Designation</li> </ul>	TDC DEPRESS

#### 4.1.4 POINTING METHODS - SNOWPLOW

• Snowplow	<ul><li>Default mode when no Target designated</li><li>0 deg left/right</li><li>-8 deg down</li></ul>
• 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 Pointing	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	<ul><li>TDC slaved to current FLIR page</li><li>HSI: Desired waypoint selected</li><li>HSI: WYPT boxed on</li></ul>
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•		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

<ul> <li>Conditions</li> </ul>	TDC slaved to current FLIR page
<ul> <li>Activation</li> </ul>	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	<ul><li>TDC DEPRESS to activate OFFSET</li><li>+ cross (Offset Cursor) appears</li><li>Slew with TDC</li></ul>
<ul> <li>Designation</li> </ul>	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	<ul><li>a) FLIR Switch: STBY</li><li>b) Open FLIR page, monitor warm-up</li><li>c) FLIR Switch: ON when STBY displayed</li><li>d) Confirm mode displays OPR</li></ul>
2.	Unstow	<ul><li>a) Select VVSLV</li><li>b) Unselect VVSLV to enter Snowplow</li></ul>
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.	<b>Pointing Method</b>	as required
9.	Laser Code	<ul><li>a) Press UFC OSB</li><li>b) Press LTDC, enter desired code</li><li>c) Press ENT</li></ul>
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	<ul><li>Master Mode: A/G</li><li>TGP: ON</li><li>LST/NFLR: ON</li></ul>
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, only visible in NVG

(j) Laser ......press TRIGGER to mark

again to cease marking

#### 4.1.13 A/A POINT TRACK

#### To slave radar to TPOD

(I) Radar ..... OPR

- (m) Point Track ......acquired
- (n) FLIR Page ......press SLAVE OSB

#### 4.1.14 A/A RADAR SLAVING

(a)	TPOD	on & ready
(b)	Radar	OPR
(c)	Master Mode	
(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
(1)	909	towards ELID page to attempt Doint Track

#### 4.2 ASQ-228 ATFLIR

#### 4.2.1 CONTROLS

<ul> <li>Display Selection</li> </ul>	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
<ul> <li>Snowplow</li> </ul>	Default mode when no Target designated
Stabilized Pointing	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
---	-------	-------------------------------------------------

<ul> <li>Conditions</li> </ul>	TDC slaved to current FLIR page
<ul> <li>Activation</li> </ul>	<ul><li>Press UNDESIGNATE twice</li><li>or press VVSLV OSB on FLIR page</li></ul>
• RTCL	Box RTCL OSB to display TGP reticle
• Designation	TDC DEPRESS

#### 4.2.4 POINTING METHODS - SNOWPLOW

• Snowplow	<ul><li>Default mode when no Target designated</li><li>0 deg left/right</li><li>-8 deg down</li></ul>
• 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	<ul><li>TDC slaved to current FLIR page</li><li>HSI: Desired waypoint selected</li><li>HSI: WYPT boxed on</li></ul>
<ul> <li>Activation</li> </ul>	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	1. Unstow TGP with VVSLV 2. SCS towards FLIR page to toggle SCENE/AUTO 4.10

•	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

<ul> <li>Conditions</li> </ul>	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	<ul><li>Master Mode: A/G</li><li>TGP: ON</li><li>LST/NFLR: ON</li></ul>
Set Laser Code	<ol> <li>UFC OSB on FLIR page</li> <li>Press LSTC, enter Code on Keypad, ENT</li> </ol>

TGP & JHMCS	F/A-18C	REV: 20220529

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
<ul> <li>Designation</li> </ul>	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

<ul> <li>HMD Brightness</li> </ul>	BRT
	Powers on JHMCS
<ul> <li>Master Mode</li> </ul>	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
<ul> <li>Undesignate</li> </ul>	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	<ul><li>Master Mode: A/G</li><li>JHMCS: ON</li><li>TDC slaved to HUD or HMD</li></ul>
• Symbology	<ul><li>HUD: dot in VV indicates HUD slaved</li><li>HMD: Aiming Reticle indicates HMD slaved</li></ul>

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F/A-18C REV: 20220529

<ul> <li>Designation</li> </ul>	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 Activation	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	<ul><li>Master Mode: A/A</li><li>HMD: BRT</li><li>AIM-9X: Selected</li></ul>
• Activation	SCS: FWD (slave TDC to HMD)
• Uncage	CAGE/UNCAGE button

# Chapter 5 AGWENDS

5.1	SELEC	TIVE ORDNANCE JETTISON
5.2	FORWA	ARD FIRING
	5.2.1	M61A2 GUN - A/G
	5.2.2	ROCKETS
5.3	UNGUI	DED FREE-FALL MUNITIONS 5-3
	5.3.1	UNGUIDED BOMB - CCIP
	5.3.2	UNGUIDED BOMB - CCRP 5-4
	5.3.3	MK-20 CLUSTER BOMB - CCIP 5-4
5.4	GPS G	UIDED MUNITIONS
	5.4.1	JDAM/JSOW - PP
	5.4.2	JDAM/JSOW - TOO WYPT 5-6
	5.4.3	JDAM/JSOW - TOO TPOD 5-7
5.5	LASER	GUIDED MUNITIONS
	5.5.1	GBU-12 PAVEWAY II
	5.5.2	
5.6	AGM-6	55 MAVERICK
	5.6.1	AGM-65F/G IR-MAV
	5.6.2	AGM-65E LASER-MAV
5.7	AGM-8	88C 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
	•	= = =

## A/G WEAPONS F/A-18C REV: 20220529

	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	34E 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	32 WALLEYE II
	5.10.1	AGM-62 WALLEYE II
	5.10.2	AGM-62 WALLEYE II - D/L
5 11	A/G ()\	/ED\/IE\// 5-20

A	/G WEAPONS F/A-18C REV: 20220529
5.1	SELECTIVE ORDNANCE JETTISON
(b)	Master ArmARMSMScheck storesJettison Storesselect desired
` ,	jettison stations on pushbuttons  Selective Jett. Knob
(f)	Jett. Button       press & hold         Selective Jett. Knob       SAFE
	FORWARD FIRING
5.2.	1 M61A2 GUN - A/G
(b)	Master Arm
	<ul> <li>Rounds MK-50 or PGU-28</li> <li>Firing Rate HI or LO</li> <li>Mode CCIP</li> </ul>
(e)	Reticleon targetFireonce IN RNG cueBreak Awaybefore X cue
	2 ROCKETS
(b)	Master Arm         ARM           Master Mode         A/G           SMS         select pod (68R)           • Firing Mode         SGL or SAL
	<ul><li>MTR M4 or M66</li><li>Mode CCIP</li></ul>
(e)	Reticle
5.3	UNGUIDED FREE-FALL MUNITIONS
(a) (b)	1 UNGUIDED BOMB - CCIP  Master Arm
(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  (e) Dive
5.3.2 UNGUIDED BOMB - CCRP
(a) Master ArmARM(b) Master ModeA/G(c) SMSselect desired bomb (82B)
(a) Create delivery PROG 1 (b) Mode
<ul> <li>(d) UFC press OSB for UFC on SMS page</li> <li>QTY bombs per release</li> <li>MULT bombs per salvo in release</li> <li>INT interval between salvo in feet</li> </ul>
(e) SCS
5.3.3 MK-20 CLUSTER BOMB - CCIP
(a) Master Arm

A	/G WEAPONS	F/A-18C	<b>REV: 20220529</b>
(c)	SMS		select desired bomb (RE)
	(c) <b>MFUZ</b>		
(d)	UFC		press UFC OSB on SMS page
	<ul><li>QTY bombs per rel</li><li>MULT bombs per s</li><li>INT interval between</li></ul>	alvo in release	
(f) (g) (h) (i)	DIL	Disp	layed Impact Line over target appears once computed CCIP CROSS & DIL on target .when CCIP CROSS on target vector reaches PULL UP cue
5.4	GPS GUIDED MUNI	TIONS	
5 1	1 JDAM/JSOW - PP		
J.4.			
	pon Setup		
Wea (a)	pon Setup  Coord.		prepare in format DEG MIN SEC : DEC-SECwhile on ground
Wea (a)	coord.  SMS  (a) Select desired JDAN (b) Wait	M (J-82) or JSOW	DEG MIN SEC : DEC-SECwhile on ground
(a) (b) (c) (d) (e)	coord.  SMS  (a) Select desired JDAI (b) Wait (c) Mode (d) Fuzing  JDAM Display  Release Type QTY press QTY OSE RTN OSB, now STEP OS	M (J-82) or JSOW (	DEG MIN SEC : DEC-SECwhile on ground (JSA/JSC)for GOOD align (3 min)PPINSTpress JDAM DSPLY OSBMANUAL ations (recommend: all) press stations
(a) (b) (c) (d) (e) (f) (g)	Coord.  SMS  (a) Select desired JDAN (b) Wait (c) Mode (d) Fuzing  JDAM Display Release Type QTY press QTY OSE RTN OSB, now STEP OS MSN Page Select PP1	M (J-82) or JSOW	DEG MIN SEC : DEC-SECwhile on ground (JSA/JSC)for GOOD align (3 min)PPINSTpress JDAM DSPLY OSBMANUAL ations (recommend: all) press
(a) (b) (c) (d) (e) (f) (g)	Coord.  SMS  (a) Select desired JDAN (b) Wait  (c) Mode (d) Fuzing  JDAM Display  Release Type  QTY press QTY OSE RTN OSB, now STEP OS MSN Page  Select PP1  Data Entry	M (J-82) or JSOW (Section 1988)  B select desired states to the section of the se	DEG MIN SEC : DEC-SEC
(a) (b) (c) (d) (e) (f) (g)	Coord.  SMS  (a) Select desired JDAI (b) Wait (c) Mode (d) Fuzing  JDAM Display Release Type QTY press QTY OSE RTN OSB, now STEP OS MSN Page Select PP1 Data Entry (a) HT	M (J-82) or JSOW	DEG MIN SEC : DEC-SEC

A	/G WEAPONS	F/A-18C	REV: 20220529
			press TGT UFC twice
			to return to main UFC pageselect POSN on UFCinput DEG MIN SEC, ENT input DEC-SEC, ENT
	(g) <b>LON</b>		input DEG MIN SEC, ENT input DEC-SEC, ENT
	(h) Return	• • • • • • • • • • • • • • • • • • • •	press TGT UFC twice to return to main UFC page
			PP1 no longer crossedfor remaining stations
Wea	pon Launch		
(b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m)	Master Mode SMS R DDI L DDI Verify Maneuver TMR IN RNG Fire Next Verify Repeat e each JDAM can have	syster MANU.	ARM
	pon Setup		
	(a) SUPT HSI (b) DATA (c) Precise	push F	cycle through waypoints PRECISE OSB to add DEC-SECwhile on ground
(~)	(a) Select desired (b) Wait	JDAM (J-82) or JSOW	· ·

#### A/G WEAPONS F/A-18C (c) JDAM Display ......press JDAM DSPLY OSB (d) Release Type ...... MANUAL (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 DDI ...... HSI page (e) L DDI ......JDAM 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) Fire ......hold weapon release (m) Next ...... system will auto cycle to next JDAM (n) Verify .......MANUAL release, TOO, desired station (o) Repeat ...... for remaining bombs & waypoints **JDAM/JSOW - TOO TPOD** Weapor/Setup (a) SMS ......while on ground (a) Select desired JDAM (J-82) or JSOW (JSA/JSC) (d) Fuzing ......INST (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) M\$N Page ......press TOO1

#### 5.5 LASER GUIDED MUNITIONS

#### 5.5.1 GBU-12 PAVEWAY II

(a) Master Arm ......ARM

#### F/A-18C A/G WEAPONS ..... select desired bomb (82LG) (c) **SMS** ..... (a) Create delivery PROG 1 (c) **MFUZ** ......OFF (d) EFUZ ......DLY1 or INST (d) FLIR ......STBY (e) DDI/AMPCD ...... select FLIR, monitor warm up (f) FLIR ...... ON, once ready (g) LTD/R ......ARM (h) SCS ......in 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 OSB ......press to set code on UFC (I) LTDC ...... select on UFC, set code , press ENT (m) **SMS** ..... select 82LG (n) CODE OSB (o) UFC ......enter CODE (p) 82LG .....should display RDY (g) 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) Release ...... when 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) Wait ...... for cooldown (d) Master Arm ......ARM (e) TAC Page ......select IMAV DSPLY OR

#### F/A-18C A/G WEAPONS REV: 20220529 SMS ...... select MAVF twice (f) Fuzing ...... as desired (g) SCS ...... towards MAV feed (usually L DDI) (h) FOV ......as desired (i) Cage/Uncaged Caged seeker points at boresight Uncaged missile attempts to lock on to contrast (i) TDC ......slew WHILE depressing (k) Release TDC ...... MAV will attempt to lock on, good range 7.5 miles (I) LOCK ON ......cross will disappear (m) Fire ......hold weapon release 5.6.2 AGM-65E LASER-MAV (b) Master Arm ......ARM (c) SMS ......select MAV (b) Fuzing ......INST (d) MAV DSPLY ..... press UFC OSB (edits ALL laser codes at once) (e) CODE ...... enter on UFC (f) FLIR ......STBY (g) DDI/AMPCD ...... select FLIR, monitor warm up (h) FLIR ..... ON, once ready (i) LTD/R ..... ARM (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 OSB ......press to set code on UFC (n) LTDC ...... select on UFC, set code , press ENT (o) FLIR ......press TRIG OSB (p) Laser ...... press gun trigger to fire (q) SCS ......to MAV DSPLY DDI (r) MAV DSPLY ......select desired station using STEP OSB

NOTE MAV DSPLY must be selected, else will boresight TPOD

(t) RDY ......indication & MAV LKD in HUD indicates ready to fire

(s) Uncage ...... missile

(u) Fire ......hold weapon release

#### **5.7 AGM-88C HARM**

5.7.	1 HARM - TOO
(a)	Master ArmARM
(b)	Master Mode
	R DDI
	L DDI
	Mode
٠,	scstowards HARM DDI
	<b>Cycle Emitter</b> depress RAID/FLIR to cycle, consult HUD, RWR or EW page
	Maneuver align target icon with cross of seeker
	Handoff press CAGE/UNCAGE to lock seeker to target
(j)	Firehold weapon release
5.7.	2 HARM - SP
	Master ArmARM
	Master Mode
(c)	R DDI TAC EW page
	L DDI
	Mode
(f)	Cycle Emitter depress RAID/FLIR to cycle, consult HUD, RWR or EW
(a)	page
(g)	Firehold weapon release
5.7.	3 HARM - PULLBACK
	VR detects critical threat, SP Pullback will automatically select and pre- harm for launch.
	E HARM OVRD on SMS must be unboxed
(a)	Master ArmARM
	Master Mode
(c)	HRM OVRDunboxed
(d)	<b>RWR</b>
	HUD HARM displayed
(f)	Firehold weapon release

#### 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

(b)	Master ArmARMMaster ModeA/GSMSselect HPD OSBAlignmonitor from SMS (25 s)Program Parameters
	(a) UFC
(f)	SMS
	(a) Mode       BOL         (b) FLT       LO/MED/HI         (c) Term.       SKIM/POP
(g) (h)	R DDI
	<ul> <li>FXP Fixpoint, located 1/2 dis between SRCH and DSTR point, harpoon will fly to FXP and hold that bearing</li> <li>HPTP Harpoon Turnpoint select waypoint, press HPTP OSB, harpoon will fly to HPTP, then BRG</li> </ul>
	IN ZONEfollow steering cues until IN ZONE cue appears Alt

#### 5.8.2 HARPOON - R/BL

 (k) g
 positive

 (l) Fire
 hold weapon release

 (m) RADALT
 warning normal

### A/G WEAPONS F/A-18C REV: 20220529

- 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
- (a) Master Arm .......ARM
- (c) SMS ......select HPD OSB
  - (a) Align ...... monitor (25 s)

  - (d) FLT ..... LO/MED/HI
  - (e) Term. SKIM/POP
- (d) R DDI .......HSI
- (e) IN ZONE .......follow steering cues until IN ZONE cue appears
- (g) g ..... positive
- (h) Fire ......hold weapon release
  (i) RADALT .....warning normal

#### 5.9 AGM-84E SLAM & SLAM/ER

#### 5.9.1 SLAM - SETUP

- (a) Master Arm ......ARM
- (c) SMS Page
  - (a) **SLAM OSB** ......press to power on

  - (d) STEP ..... to select missile station
  - (e) WEP OSB .....select SLAM which communicates with DL

MED (15000) or LOW (5000)

LRG (16.2 nm)

A/G WEAPONS F/	A-18C REV: 20220529
(d) Slam Display	press SLAM DSPLY OSB
	MAN
	press
(c) <b>DIST</b>	(distance for seeker activation)
(d) <b>UFC OSB</b>	press to unbox
(e) Target Designation	as desired
	Refer to Designation Sections
5.9.2 SLAM - TOO WYPT	
(a) Weapon Setup	complete
(b) SLAM DSPLY	Refer to Setup Section
• •	тоо
. ,	enter mission page
• •	select
(d) <b>ORP</b>	blank (no target selected)
(c) TERM (Optional)	press TERM OSB
	press
• •	input, ENT
(d) O/S UFC (Optional)	press input offset to target
(e) HSI Page	input onset to target
	press
(b) <b>WYPT</b>	select desired
(c) <b>WPDSG OSB</b>	press
(6)	designates targetpoint
(†) Verity	ORP coordinates in MSN page
(g) <b>Range</b>	Min/Max launch circles
	in HSI page
(h) Cues	steering, range
(i) MSN Page	target diamond, SLAMpress RETURN OSB
(i) World age	to return to SMS
(j) Weapon Launch & Control	
	Refer to Launch Section
5.9.3 SLAM - TOO TPOD	

#### 5.9.3 SLAM - TOO TPOD

(a) Weapon Setup .......complete

Refer to Setup Section

A/G WEAPONS	
(b) SLAM DSPLY  (a) MODE	
(d) ORPblank (no target selected)	
(c) <b>TERM (Optional)</b>	
(b) HDG/ANG/VEL input, ENT (d) O/S UFC (Optional) press	
input offset to target  (e) FLIR	
(g) FLIR	
(j) Snowplowpress UNDESIGNATE twice again to unselect VVSLV (k) TDCslew TPOD reticle over target (l) DesignateTDC DEPRESS (m) VerifyORP coordinates	
in MSN page (n) Range Min/Max launch circles in HSI page (o) Cues steering, range target diamond, SLAM	!
Note TPOD range less than SLAM range, IN RNG cue already possible	
(p) MSN Page	
(q) Weapon Launch & Control  Refer to Launch Section	
5.9.4 SLAM - TOO A/G RDR	İ
(a) Weapon Setupcomplete	l
(b) SLAM DSPLY	
(a) MODETOO(b) MSN OSBenter mission page(c) TOO1/2 OSBselect(d) ORPblank (no target selected)	
(c) <b>TERM (Optional)</b> press TERM OSB	

A	/G WEAPONS	F/A-18C	<b>REV: 20220529</b>
			press
(d)	O/S UFC (Optional)		press input offset to target
(f)			select towards RDR ATTK
	(a) <b>EXP1 OSB</b>		presspresspress & hold
			while slewing to targetrelease TDCfor EXP2/3
			DEPRESS & hold while slewing to target
(i)	Designate		release TDC to designate target
	A-G Radar not very probability allows use FLIR	recise	
(j)	Verify		ORP coordinates in MSN page
(k)	Range		Min/Max launch circles in HSI page
(1)	Cues		target diamond, SLAM
	A-G Radar range (30- y possible	40nm) less than SLA	M range, IN RNG cue al-
(m)	MSN Page		press RETURN OSB to return to SMS
(n)	Weapon Launch & Con	ntrol	Refer to Launch Section
5.9.	5 SLAM - PP		
(a)	Weapon Setup		complete Refer to Setup Section
(b)	SLAM DSPLY		
	(b) <b>MSN OSB</b>		PP
			selectblank (no target selected)

A	G WEAPONS F/A-18C REV: 20220529
(c)	TERM (Optional) press TERM OSB
	(a) TOO UFC OSBpress (b) HDG/ANG/VELinput, ENT
(d)	O/S UFC (Optional)press
(e)	input offset to target  Coordprepare in format
(f)	DEG MIN SEC : DEC-SEC  MSN Page crossed out PP mean no coordinates
(g)	Select PP1press PP1 OSB
(h)	Data Entry    press TGT UFC OSB      (a) ELEV    select ELEV on UFC
	(b) <b>Return</b> press TGT UFC twice
	to return to main UFC page (c) POSN select POSN on UFC
	(d) LATinput DEG MIN SEC, ENT, input DEC-SEC, ENT
	(e) LONinput DEG MIN SEC,
	ENT, input DEC-SEC, ENT (f) Returnpress TGT UFC twice
(i)	to return to main UFC page  Verify
(1)	(a) PPI no longer crossed
/:\	(b) TGT coordinates
	Range Min/Max launch circles in HSI page
(k)	Cues    steering, range      target diamond, SLAM
(1)	MSN Pagepress RETURN OSB to return to SMS
(m)	Weapon Launch & Control
	Refer to Launch Section
5.9.	S SLAM - LAUNCH
(a)	Weapon Setupcomplete  Refer to Setup Section
(b)	Target Designationcomplete  Refer to Designation Sections
	R DDIHSI page
	L DDI SMS page Verify
(e)	verity

#### F/A-18C **GWEAPONS REV: 20220529** (b) Master Arm ......ARM (c) Release Profile ......set 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) SLAM .....unboxed (b) **DL13** ......boxed (c) UFC OSB ......press (d) UFC .....input missile station, ENT (sets DL channel) (e) UFC OSB ...... press to deselect (f) Sensor Select Switch ...... towards DL Feed (g) Verify ......IN RNG (h) Fire ...... hold WEAPON RELEASE (i) Clearing Turn ...... recommended (j) TTS ....... Seeker uncaged DL Feed active (k) FOV ......as desired (I) Aft Antenna ...... A ANT boxed 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 Arm ......ARM (c) SMS ...... select WEDL (a) TV Feed ......select WEDL OSB again (b) Fuzing ...... as desired

A/G WEAPONS F/A-18C REV: 2	20220529
(d) SCStowards w  (e) Cage/Uncagewhen uncaged the bomb will attent contrast	-
(f) <b>TDC</b> DEPRESS & <b>ho</b>	<b>Id</b> while slewing
(g) LOCK ONRDY indication next to station, WE no longe HUD, WEDL no longer crossed out in SMS	er crossed out in
(h) Firehold	weapon release
5.10.2 AGM-62 WALLEYE II - D/L	
(a) Master Arm (b) Master Mode (c) SMS	A/G
(a) Master Arm (b) Master Mode (c) SMS  (a) D/L	A/G select WEDL
(a) Master Arm (b) Master Mode (c) SMS  (a) D/L	A/G select WEDL select DL13 OSB

- (d) SCS ......towards DL feed
- (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
- (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

F/A-18C REV: 20220529

#### 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		
	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		
		<b>GPS Munitions</b>		
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		

# Chapter 6

#### **Contents**

6.1	M61A2	2 GUN
	6.1.1	M61 - NO RADAR
	6.1.2	M61 - RADAR
6.2	AIM-9	SIDEWINDER 6-3
	6.2.1	AIM-9 - NO RADAR 6-3
	6.2.2	AIM-9 - RADAR6-3
	6.2.3	AIM-9X - JHMCS 6-4
6.3	AIM-7	SPARROW
	6.3.1	AIM-7F - RADAR
6.4	AIM-12	20 AMRAAM
	6.4.1	AIM-120 - STT
	640	AIM 100 TWC

## A/A WEAPONS F/A-18C REV: 20220529

#### 6.1 M61A2 GUN

0.1	MOIAZ GUN
6.1.	1 M61 - NO RADAR
(b)	Master ArmARMRadarOFFWeapon SelectA/A GUNS (aft)
(d)	• Rounds MK-50 or PGU-28 • Firing Rate HI or LO
(e)	Fire
6.1.	2 M61 - RADAR
(b)	Master ArmARMRadarOPERATEWeapon SelectA/A GUNS (aft)SMS
	<ul><li>Rounds MK-50 or PGU-28</li><li>Firing Rage HI or LO</li></ul>
(f)	Radar ACM       GACQ (occurs automatically)         Maneuver       place pipper over target         Fire       TRIGGER
6.2	AIM-9 SIDEWINDER
6.2	.1 AIM-9 - NO RADAR
(a) (b) (c) (d) (e) (f) (g)	IR Cool NORM  Master Arm ARM  Radar OFF  Weapon Select SIDEWINDER (fwd)  Cage/Uncage DEPRESS  Maneuver place target in seeker (good tone)  Fire TRIGGER
	.2 AIM-9 - RADAR
(b) (c) (d) (e)	IR Cool NORM  Master Arm ARM  Radar OPERATE  Weapon Select SIDEWINDER (fwd)  SCS ACM (forward)  Select Sub Mode with further depresses  BST Boresight

# A/A WEAPONS F/A-18C REV: 20220529 • VACQ Vertical Acquisition • WACQ Wide Acquisition

- (g) Maneuver ...... place target in lock on zone
- (h) Cage/Uncage ......depress
- (i) Maneuver ......place steering dot inside ASE/NIRD circle
- (j) Fire .......TRIGGER

#### 6.2.3 AIM-9X - JHMCS

- (a) IR Cool .......NORM
- (c) Master Arm ......ARM

- (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 DDI ......RDR ATTK page
- (c) Master Arm ......ARM
- (d) Weapon Select ...... SPARROW (left)
- (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 Scale ......as desired
- (h) Radar Azimuth Range .......as desired
- (i) Radar Bar Mode ...... as desired
- (j) Aantenna Elev. ..... choose optimum

A/A WEAPONS	F/A-18C	REV: 20220529
(k) Lock Target		TDC DEPRESS over target

(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 DDIRDR ATTK page
	Master ArmARM
(d)	Weapon Select
(e)	SMS
	• Size SML / MED / LRG
	<ul> <li>Select desired AMRAAM station</li> </ul>
(f)	<b>Sensor Select Switch</b> RIGHT to select BVR/RWR mode and slave TDC to R DDI
(g)	Radar Range Scale as desired
(h)	Radar Azimuth Rangeas desired
	Radar Bar Mode as desired
(j)	Antenna Elev
(k)	Lock Target place TDC over target and depress
	Maneuver place target in ASE circle (will cause STT lock)
(m)	Maneuverplace steering dot inside ASE/NIRD circle
(n)	once SHOOT are appeared

#### 6.4.2 AIM-120 - TWS

