DCS F/A-18 C LOT 20

COCKPIT GUIDE

311th FS GRYPHONS

SANDMAN

TABLE OF CONTENTS

PURPOSE

The purpose of this document is to provide a quick and easy reference guide with which users can familiarize themselves with the Hornet cockpit and utilize in the event they need a reminder of where a particular control is or what its function is. This guide is not intended to be a complete procedure manual. While it does include start up procedures and some other procedure these should not be substituted for purpose built start up, emergency, or any other procedures or checklists.

VERSION

This document was built using the pre-alpha version of the F/A-18C Hornet. Updates will occur as possible. Pictures may not be updated and may show early textures and builds.

LAYOUT

This document consists of an initial familiarization section, followed by various procedural sections.

Familiarization

The cockpit is segmented with each section starting with a title and labelled picture of that section. Below the picture will be either a basic legend of the controls, or a table with specific information about the controls, or both. Legends are basic information about controls or control groups. Tables represent individual controls and positions as well as what the controls are used for. If a normal or standard position exists for a control that position will be highlighted and lettered in green font.

In some cases, the basic controls will be described followed by more detailed looks at certain controls in a section. One example of this would be the Up Front Controller being described along with the HUD Control Panel and Advanced Multi-Purpose Color Display in a basic format, then each one being described in more detail in a dedicated section.

Procedural

Procedural sections have a title for the procedure followed by step by step instructions on how to complete the procedure. Switches, knobs, dials, and buttons will be labelled as they are in the cockpit as often as is possible. Control positions and indications will be stated as they will be seen in the cockpit as often as is possible. When directional descriptions are necessary the guide will use the terms “Fore” or “Forward”, “Aft”, “Left”, “Right”, “Inboard”, and “Outboard”.

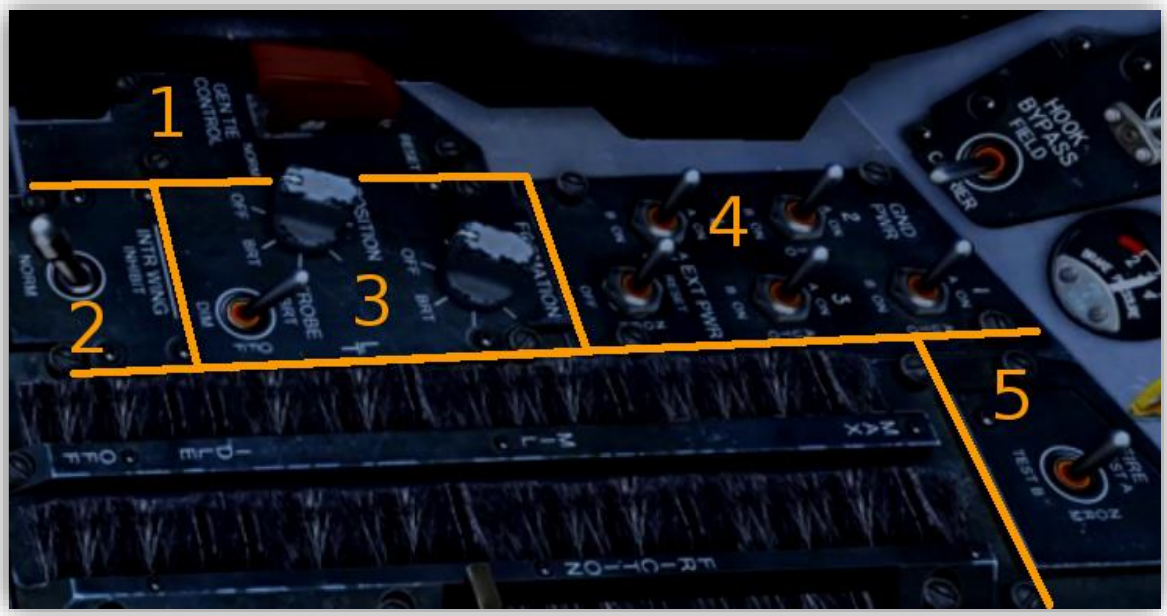
FAMILIARIZATION

LEFT AFT CONSOLE AND WALL (BEHIND THROTTLE)

1. MC - Mission Computer Switch
2. HYD ISOL - Hydraulic Isolation Switch
3. OBOGS Panel - Onboard Oxygen Generation System: Switch and Flow Dial
4. IFF Panel – Identify Friend Foe
5. ANT SEL Switches – Antenna Select
6. VOL Panel - Volume
7. FCS Panel – Flight Control System
8. FUEL Panel
9. APU And ENG CRANK Switches – Auxiliary Power Unit and Engine Crank switches
10. Left Wall Breaker Panel – FCS Channels 1 and 2, Speed Brake, and Launch Bar breakers

NUMBER	PANEL NAME	LABEL	NAME	CONTROL TYPE	AVAILABLE POSITIONS IF APPLICABLE NORMAL POSITION IN GREEN			USAGE
1		MC	Mission Computer	Switch	1 OFF	NORM	2 OFF	resets MC1 or MC2 in case of failure
2		HYD ISOL	Hydraulic Isolation	Switch	ORIDE	NORM		overrides main system in case of failure
3	OBOGS	OBOGS	Onboard Oxygten Generation System	Switch	ON	OFF		turns OBOGS ON or OFF
3	OBOGS	OXY FLOW	Oxygen Flow	Knob	ON	OFF		set either full ON or full OFF
4	ILS	CHANNEL	Channel	Knob	1-20			manually set the ILS Channel if MAN selected on switch
4	ILS		ILS	Switch	UFC	MAN		select UFC or ILS knob as channel select
5	ANT SEL	COMM 1	Comm 1	Switch	UPPER	AUTO	LOWER	select antenna to use for COMM 1
5	ANT SEL	IFF	Identify Friend Foe	Switch	UPPER	AUTO	LOWER	select antenna to use for IFF
6	VOL	Various		Knobs				sets volume of various sounds through headset
7	FCS	RESET	FCS Reset	Button				resets FCS page on MDI
7	FCS	GAIN	FCS Gain	Guarded Switch	ORIDE	NORM		set discrete flap positions under 200 knots in ORIDE
7	FCS	RUD TRIM	Rudder Trim	Knob	L	R		set Left and Right Rudder Trim as needed
7	FCS	T/O TRIM	Take Off Trim	Button				push to set T/O trim
8	FUEL	DUMP	Dump	Switch	ON	OFF		dumps fuel through vertical stab dump tanks
8	FUEL	EXT TANK WING	Wing Tank	Switch	ORIDE	NORM	STOP	sets behavior of external wing tanks
8	FUEL	EXT TANK CTR	Centerline Tank	Switch	ORIDE	NORM	STOP	sets behavior of external centerline tank
8	FUEL	PROBE	Air Refuel Probe	Fenced Switch	EXTEND	RETRACT	EMERG EXTD	extends and retracts fuel probe
9	ENG CRANK	ENG CRANK	Engine Crank	Switch	L	R	OFF	starts cranking sel engine, auto OFF when done
9	APU	APU	Auxillery Power Unit	Switch	ON	OFF		starts APU, shuts off 1 min after done
10	BREAKER	FCS CHAN1, FCS CHAN 2, SPD BRK, LAUNCH BAR		Panel / Breakers				

LEFT FORE CONSOLE (FORWARD OF THROTTLE)



1. GEN TIE CONTROL – Generator Tie Control Switch
2. INTR WING – Internal Wing Inhibit Switch
3. External Light Controls – POSITION Knob, FORMATION Knob, and STROBE Switch
4. EXT PWR – External Power Switch and GND PWR 1 – 4 Switches
5. FIRE - Fire Test Switch

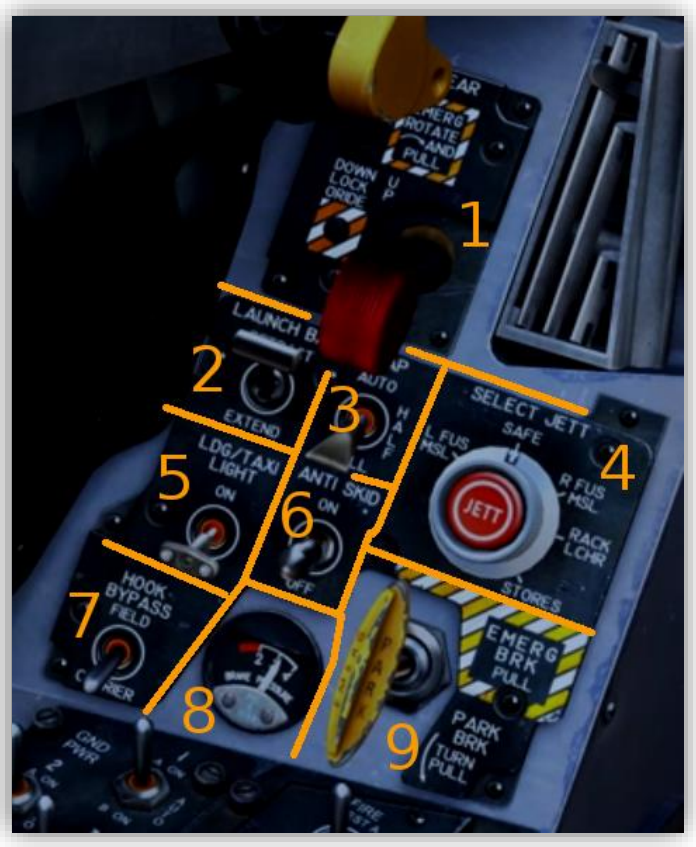
NUMBER	PANEL NAME	LABEL	NAME	CONTROL TYPE	AVAILABLE POSITIONS IF APPLICABLE NORMAL POSITION IN GREEN							USAGE
1	GEN TIE	GEN TIE CON	Generator Tie Control	Guarded Switch	RESET	NORM						override AC bus isolation circuit
2		INT WING	Internal Wing Inhibit	Switch	INHIBIT	NORM						controls flow of fuel from internal wing tanks
3	LT	FORMATION	Formation Lights	Knob	OFF-BRIGHT							
3	LT	POSITION	Position Lights	Knob	OFF-BRIGHT							
3	LT	STROBE	Strobe Light	Switch	BRT	OFF	DIM					
4	EXT PWR	EXT PWR	External Power	Switch	RESET	NORM	OFF					engergizes buses via external power
4	EXT PWR	1	Ground Power Station 1	Switch	A CH	AUTO	B CH					See Chart below
4	EXT PWR	2	Ground Power Station 2	Switch	A CH	AUTO	B CH					See Chart below
4	EXT PWR	3	Ground Power Station 3	Switch	A CH	AUTO	B CH					See Chart below
4	EXT PWR	4	Ground Power Station 4	Switch	A CH	AUTO	B CH					See Chart below
5		FIRE	Fire Test	Switch	TEST A	OFF	TEST B					Hold in TEST A / TEST B to test fire lights and warnings

GROUND POWER

SW1	SW3
POS A Mission Computer 1, MSDRS and L MDI **POS B** Mission Computer 2 and POS A Equipment	**POS A** ALQ-126, ALE-39 INTFER BLANKER, Anti-Skid, OXY-Gaging, and ALR-67(V) **POS B** SMS, AWW 4 HARM, FLIR, LST, Gun Decoder, and POS A Equipment

SW2	SW4
POS A R MDI, HUD, RADAR, INS, and EHSI **POS B** TACAN, ADC, UHF 1, UHF 2, RDR Altimeter, CSC, ADF, BCN, RDR AUG Receiver, ILS, D L, IFF, KIT, EMD, Standby Instruments, KY-58, UFC and POS A Equipment	**POS A** ICS **POS B** ICS, FCES

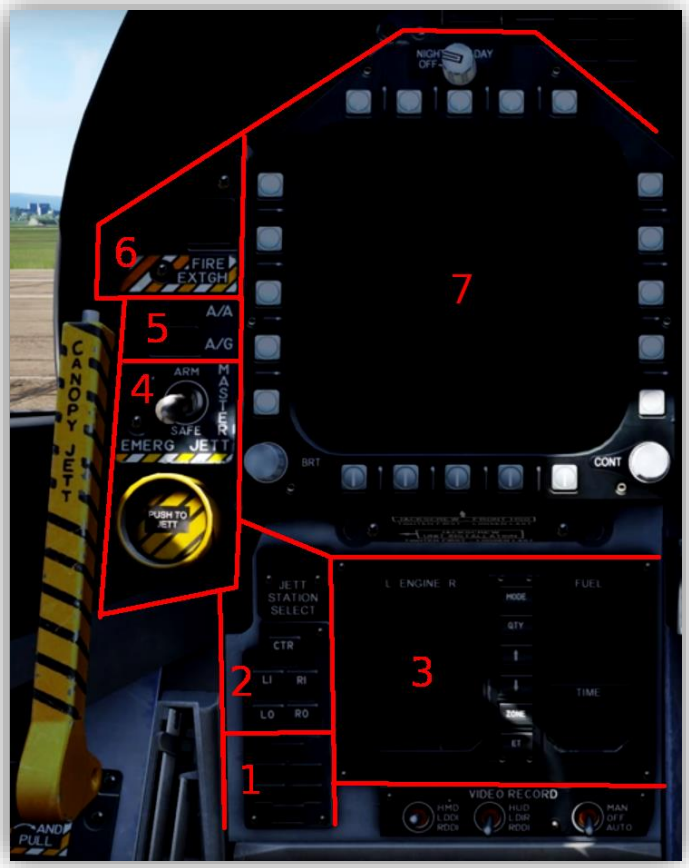
LEFT VERTICAL CONSOLE



1. LDG GEAR - Landing Gear Handle and Down Lock Override Button
2. LAUNCH BAR - Launch Bar Switch
3. FLAP - Flaps Switch
4. SELECT JETT - Select Jettison Dial and Button (center)
5. LDG/TAXI LIGHT - Landing/Taxi Light Switch
6. ANTI SKID - Anti-Skid Switch
7. HOOK BYPASS - Hook Bypass Switch
8. Brake Pressure Gauge
9. EMERG BRK / PARK BRK - Emergency and Parking Brake Handle

NUMBER	PANEL NAME	PANEL SECTION	LABEL	NAME	CONTROL TYPE	AVAILABLE POSITIONS IF APPLICABLE NORMAL POSITION IN GREEN					USAGE
1	LDG GEAR		LDG GEAR	Landing Gear	Handle	UP	DOWN				rasies / lowers gear, rotate and pull for emerg
1	LDG GEAR		DOWN LOCK ORIDE	Down Lock Override	Button						push and hold to retract L/G Handle stops
2			LAUNCH BAR	Launch Bar	Switch	RETRACT	EXTEND				extends / retracts the cat launch bar
3			FLAP	Flaps	Switch	AUTO	HALF	FULL			sets flaps
4	SELECT JETT		SELECT JETT	Selective Jettison	Knob	STORES	RACK LCHR	R FUS MSL	SAFE	L FUS MSL	turn to select items to jettison
4	SELECT JETT		JETT	Jettison	Button	JETT					push to jettison selected stations
5			LDG/TAXI LIGHT	Landing / Taxi Light	Switch	ON	OFF				tuns on / off landing and taxi lights
6			ANTI SKID	Anti-Skid	Switch	ON	OFF				turns on / off anti-skid
7			HOOK BYPASS	Hook Bypass	Switch	FIELD	CARRIER				sets AOA indexer based on landing type
8				Hydraulic Brake Accumulation	Gauge						
9			PARK BRAKE	Emergency / Parking Brake	Handle						pull emergency brake, pull + turn to set brake

LEFT FORE DASH



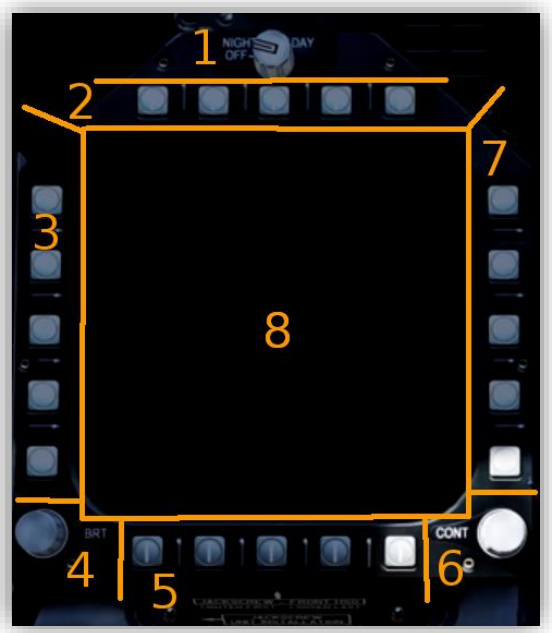
1. Landing Gear and Flap Position Status Lights
2. JETT STATION SELECT – CTR, LI, RI, LO, RO Station Select Buttons
3. IFEI – Integrated Fuel and Engine Indicator – various buttons and displays
4. MASTER - Master Arm Switch and Emergency Jettison Button
5. A/A and A/G Master Mode Buttons
6. FIRE EXTGH - Fire Extinguisher Indicator Lights
7. Left Multi-Purpose Display Indicator (MDI – formerly DDI)
   *Warning lights and Master Caution above Left MDI

NUMBER	PANEL NAME	LABEL	NAME	CONTROL TYPE	AVAILABLE POSITIONS IF APPLICABLE NORMAL POSITION IN GREEN			USAGE
1			Landing Gear and Flap Indicator	Lights				visual indication of landing gear and flap positions
2	JET STATION SELECT	CTR	Center	Button				selects center stations for jettison
2	JET STATION SELECT	LI	Left Inboard	Button				selects LI stations for jettison
2	JET STATION SELECT	RI	Right Inboard	Button				selects RI stations for jettison
2	JET STATION SELECT	LO	Left Outboard	Button				selects LO stations for jettison
2	JET STATION SELECT	RO	Right Outboard	Button				selects RO stations for jettison
3	IFEI	IFEI	Indicated Fuel and Engine Indicator	Various				shows / controls various engine perf and time items
4	EMERG JETT	PUSH TO JETT	Emergency Jettison	Button				
4	MASTER	MASTER	Master Arm	Switch	ARM	SAFE		
5		A/A	Air to Air Mode	Button	ON (LIT)	OFF (DARK)		sets into A/A mode, mutually exclusive with A/G
5		A/G	Air to Ground Mode	Button	ON (LIT)	OFF (DARK)		sets into A/G mode, mutually exclusive with A/A
6		FIRE EXTGH	Fire Extenguisher	Lights				indicator lights for fire extinguisher system
7		MDI	Multi-Purpose Display Instrument	Various				various

DETAIL: Integrated Fuel and Engine Indicator

NUMBER	LABEL	NAME	USAGE
1	L ENGINE R	Engine Monitor Display	Shows engine RPM, EGT, FF, Nozzle Pos, and Oil Pressure
2	MODE	Mode Button	Changes right side of display (FUEL) to Maint and Time Setting modes
2	QTY	Quantity Button	Changes Fuel values to monitor various tanks, also changes options in Time Setting mode
2	↑	Up Button	Adjusts Bingo fuel in standard view, adjusts values in Time Setting mode
2	↓	Down Button	Adjusts Bingo fuel in standard view, adjusts values in Time Setting mode
2	ZONE	Zone Button	Changes between local and Zulu time
2	ET	Elapsed Time Button	Stop watch button, press to start, press to pause, press to restart, hold to reset
3	FUEL	Fuel Monitor Display	Shows total fuel, internal fuel, and Bingo fuel
4	TIME	Time Display	Displays COMM 1 selected channel

DETAIL: Left Multi-Purpose Display Instrument



NUMBER	LABEL	NAME	USAGE
1	NIGHT DAY	MDI Power Button	Sets MDI among OFF, NIGHT, and DAY values
2	OSB 1-5	Option Select Buttons	Top OSBs for interacting with various MDI screens
3	OSB 16-20	Option Select Buttons	Left OSBs for interacting with various MDI screens
4	BRT	Brightness Knob	Adjust brightness of Left MDI
5	OSB 11-15	Option Select Buttons	Bottom OSBs for interacting with various MDI screens
6	CONT	Contrast Buttons	Adjusts the contrast of the Left MDI
7	OSB 6-10	Option Select Buttons	Right OSBs for interacting with various MDI screens
8	DISPLAY	MDI Display	Shows various pages depending on user input

CENTER DASH

1. UFC – Up Front Controller
2. HUD Control Panel – Head Up Display Control Panel
3. AMPCD – Advanced Multi-Purpose Color Display

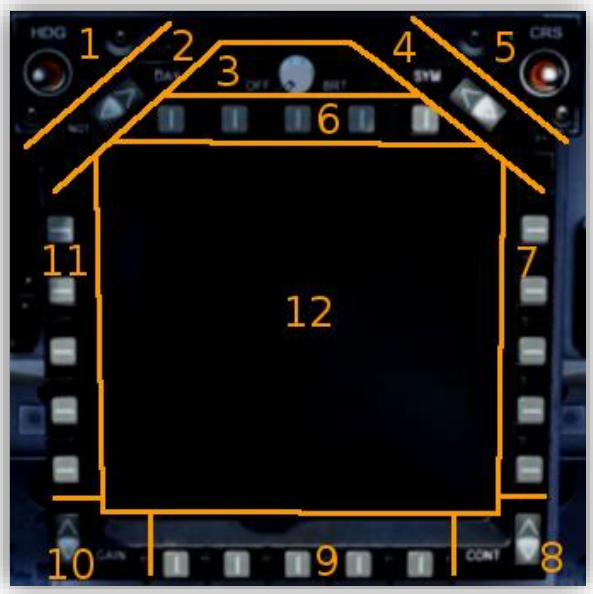
DETAIL: Up Front Controller

NUMBER	LABEL	NAME	USAGE
1	I/P	I/P	Unknown or Unmodeled
2	ADF	Automatic Direction Finder	Sets COMM 1 or COMM 2 as ADF channel
3	VOL	COMM 1 Volume	COMM 1 Volume
4	COMM 1	COMM 1 Display	Displays COMM 1 selected channel
5		COMM 1 Knob	Turns on COMM 1 and selects channel
6	A/P	Autopilot	Sets UFC into A/P Mode
7	IFF	Identify Friend Foe	Sets UFC into IFF Mode
8	TCN	TACAN	Sets UFC into TACAN Mode
9	ILS	Instrument Landing System	Sets UFC into ILS Mode
10	D/L	Datalink	Sets UFC into D/L Mode
11	BCN	Beacon	Sets UFC into BCN Mode
12	ON OFF	On / Off	Turns items On or Off
13		Scratchpad	Shows key entries from keypad
14		Keypad	Enters data into scratchpad
15		Option Select Buttons	Selects options displayed in value displays
16		Option Select Displays	Shows optional values for selected mode
17		COMM 2 Knob	Turns on COMM 2 and selects channel
18	COMM 2	COMM 2 Display	Displays COMM 2 selected channel
19	VOL	Volume	COMM 2 Volume
20	EM CON	Emitter Delete	Shuts down certain emitters
21	BRT DIM	UFC Brightness	Sets brightness of the UFC

DETAIL: HUD Controller

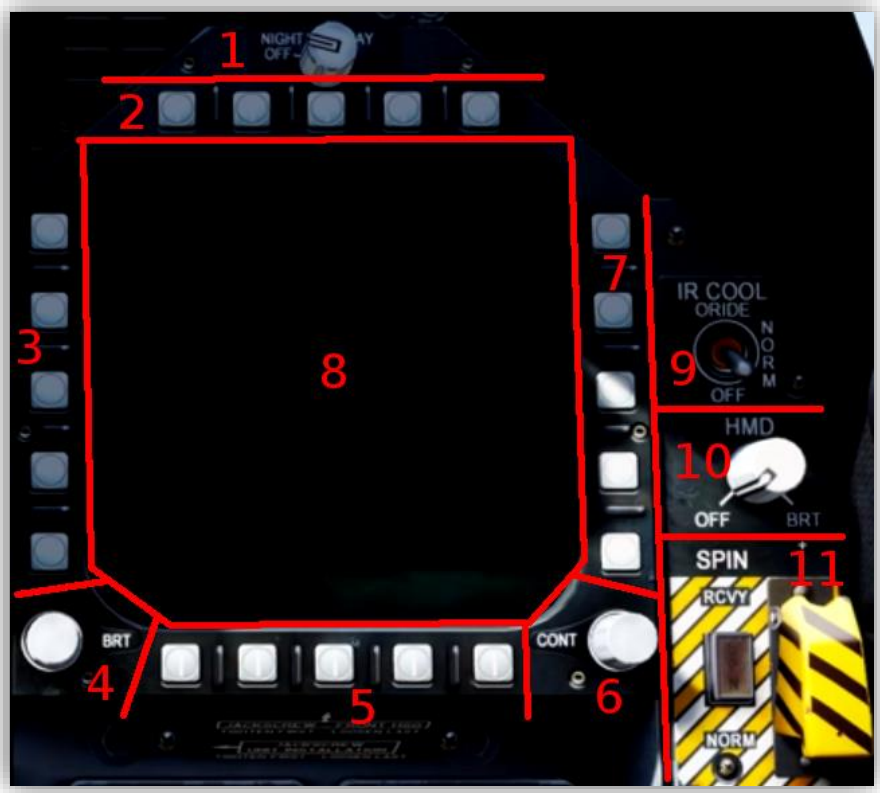
NUMBER	LABEL	NAME	USAGE
1	REJ	HUD Reject Switch	Determines what HUD symbology is shown
2	BRT	HUD Brightness Knob	Changes brightness of HUD
3	DAY NIGHT	HUD Day Night Mode Switch	Sets HUD to Day or Night modes
4	BLK LVL	Black Level Knob	Adjusts video Black level
5	W/B	White Balance Switch	Adjusts video White Balance
6	BAL	Balance Knob	Adjusts video Balance
7	AOA	AOA Brightness Knob	Changes AOA Indicator Brightness
8	ALT	Altitude Mode Switch	Changes between BARO and RDR ALT
9	ATT	Attitude Mode Switch	Changes Attitude Source Information

DETAIL: Advanced Multi-Purpose Color Display



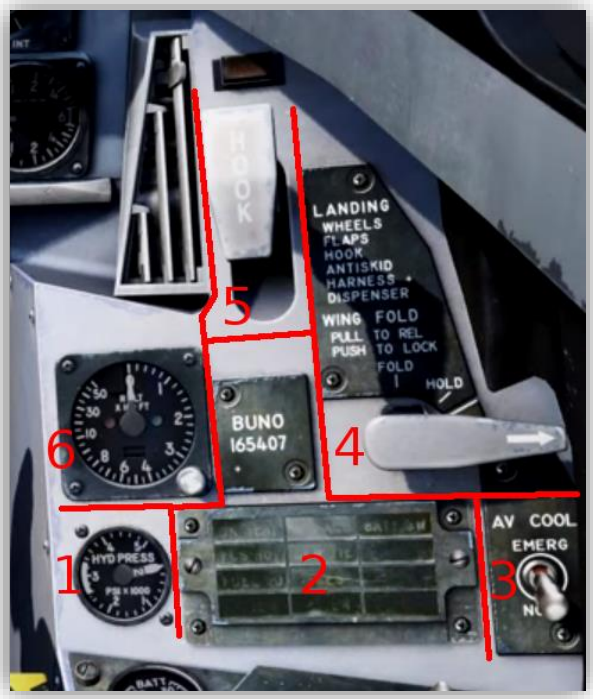
NUMBER	LABEL	NAME	USAGE
1	HDG	Heading Switch	Hold to adjust heading in HSI
2	DAY NGT	Day / Night Switch	Changes between Day and Night modes
3	BRT	Brightness Knob	Sets AMPCD Brightness
4	SYM	Symbol Switch	Unknown
5	CRS	Course Switch	Hold to adjust course in HIS
6	OSB 1-5	Object Select Keys 1-5	Interacts with AMPCD screens
7	OSB 6-20	Object Select Keys 6-10	Interacts with AMPCD screens
8	CONT	Contrast Buttons	Adjusts Contrast of AMPCD
9	OSB 11-15	Object Select Keys 11-15	Interacts with AMPCD screens
10	GAIN	Gain Buttons	Adjust Gain of AMPCD
11	OSB 16-20	Object Select Keys 16-20	Interacts with AMPCD screens
12	DISPLAY	AMPCD Display	Shows various pages, usually HSI

RIGHT MDI AND RIGHT DASH



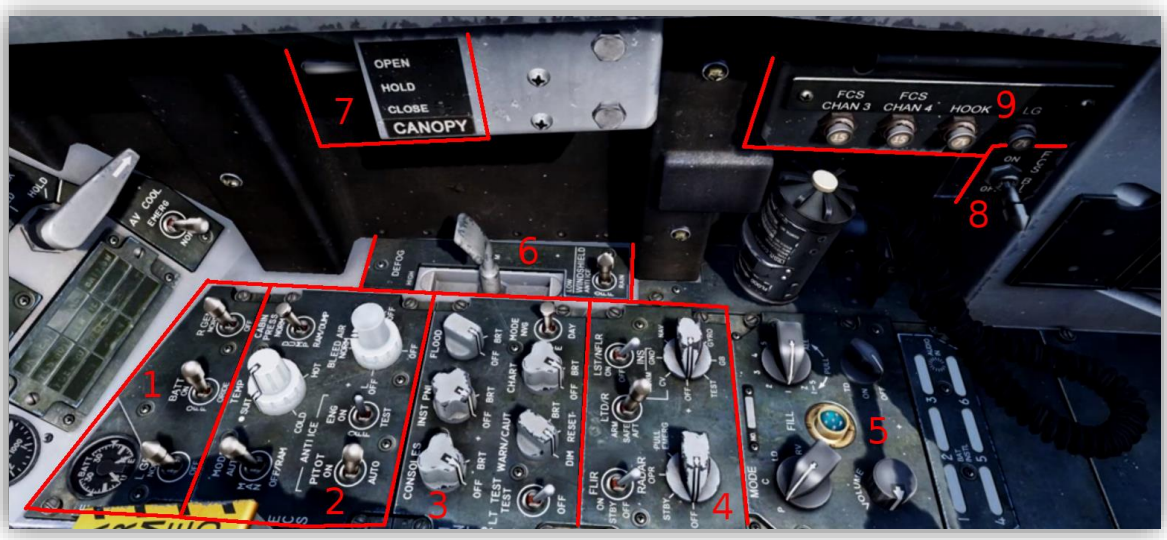
NUMBER	PANEL NAME	LABEL	NAME	CONTROL TYPE	AVAILABLE POSITIONS IF APPLICABLE NORMAL POSITION IN GREEN			USAGE
1	MDI	NIGHT DAY	Power	Knob	OFF	NIGHT	DAY	Powers on MDI and sets mode
2	MDI		Object Select Buttons 1-5	Button				Interacts with MDI Screens
3	MDI		Object Select Buttons 16-20	Button				Interacts with MDI Screens
4	MDI	BRT	MDI Brightness	Knob				Sets brightness of R MDI
5	MDI		Object Select Buttons 11-15	Button				Interacts with MDI Screens
6	MDI	CONT	MDI Contrast	Knob				Sets contrast of MDI Screens
7	MDI		Object Select Buttons 6-10	Button				Interacts with MDI Screens
8	MDI		Multi-Purpose Display Instrument	Display				Displays various pages based on user input
9	IR COOL	IR COOL	IR Cool	Switch	ORIDE	NORM	OFF	Cools the IR seeker head
10	HMD	HMD	Helmet Mounted Display Brightness	Knob	OFF	BRT		Sets brightness of the HMD
11	SPIN	SPIN	Spin Recover	Switch	NORM	RCVY		Sets mode of the recover system

RIGHT VERTICAL CONSOLE



NUMBER	LABEL	NAME	USAGE
1	HYD PRESS	Hydraulic Pressure Gauge	Shows pressure in PSI X 1000 of both systems
2		Right Panel Advisory Lights	Shows various cautions and status indicators
3	AV COOL	Avionics Cool Switch	Cools Flight Comp A and R Trans Rect with Ram Air
4	WING FOLD	Wing Fold Handle	Folds / Unfolds and Locks Wings
5	HOOK	Tail Hook Handle and Light	Lowers / Raises and Locks Tail Hook
6	RALT	Radar Altimeter	Radar Altimeter and Setting knob

RIGHT CONSOLE AND WALL



1. ELECTRICAL – Battery and Generator
2. ECS – Environmental Control System: Cabin and Engine Air Systems, Pitot and Engine Anti-Ice
3. INTR LT – Internal Lighting Panel: Console, Instrument, Flood, Caution, and Chart lights, NVG/Day Modes
4. SNSR – Sensor Panel: RADAR, INS, FLIR, LTD/R, and LST/NFLIR
5. KY-58 ENCRYPTION SYSTEM
6. DEFOG – Cockpit Defog and Windshield Anti-Ice/Rain system
7. CANOPY – Canopy Open/Close
8. FCS BIT – Flight Control System Built In Test switch
9. Right Wall Breaker Panel – FCS Channels 3 and 4, Hook, and Landing Gear breakers

NUMBER	PANEL NAME	LABEL	NAME	CONTROL TYPE	AVAILABLE POSITIONS IF APPLICABLE NORMAL POSITION IN GREEN							USAGE
1	ELECTRICAL	BATT	Battery Voltage Indicator	Gauge								Shows voltage for batteries
1	ELECTRICAL	L GEN	Left Generator	Switch	NORM	OFF						Turns on Left Generator
1	ELECTRICAL	BATT	Battery	Switch	ON	OFF	ORIDE					Connects Power from Utility and Emergency Batteries
1	ELECTRICAL	R GEN	Right Generator	Switch	NORM	OFF						Turns on Right Generator
2	ECS	MODE	Mode	Switch	AUTO	MAN	OFF/RAM					Controls airflow into the cabin
2	ECS	TEMP	Temperature	Knob								Controls cabin air temperature
2	ECS	CABIN PRESS	Cabine Pressure	Switch	NORM	DUMP	RAM/DUMP					
2	ECS	PITOT	Pitot Anti Ice	Switch	ON	AUTO						Turns on pitot heat, in auto will turn on when airborne
2	ECS	EGN	Engine Anti Ice	Switch	ON	OFF	TEST					Turns on engine anti ice system
2	ECS	BLEED AIR	Bleed Air	Knob	OFF	L OFF	NORM	R OFF				Controls bleed air from engines
3	INTR LT	CONSOL ES	Console Lighting	Knob	OFF	BRT						Sets brightness of console lighting
3	INTR LT	INST PNL	Instrument Panel Lighting	Knob	OFF	BRT						Sets brightness of instrument panel lighting
3	INTR LT	FLOOD	Flood Light	Knob	OFF	BRT						Sets brightness of flood light
3	INTR LT	LT TEST	Light Test	Switch	TEST	OFF						Tests the cockpit warn, advis, instr, and caut lights
3	INTR LT	WARN/CAUT	Warning and Caution Lighting	Knob	DIM	BRT	RESET					Sets brightness of warning and caution lights
3	INTR LT	CHART	Chart Light	Knob	OFF	BRT						Sets brightness of chart light
3	INTR LT	MODE	Cockpit Lighting Mode	Switch	NVG	DAY						Sets cockpit mode for day use or Night Vision use
4	SNSR	FLIR	Forward Looking Infrared	Switch	ON	STBY	OFF					Manages the power of the FLIR
4	SNSR	LTD/R	Laser Target Designating and Ranging	Switch	ARM	SAFE	AFT					Manages the power of the LTD/R
4	SNSR	LST/NFLR	Laser Spot Tracking Nav FLIR	Switch	ON	OFF						Manages the power of the LST/NFLR
4	SNSR	RADAR	Radar	Knob	OFF	STBY	OPR	PULL EMERG				Sets the state of the RADAR system
4	SNSR	INS	Inertial Navigation System	Knob	OFF	CV	GND	NAV	GYRO	GB	TEST	Manages the INS system and used for alignment
5			KY-58 Encryption System									
6		DEFOG	Defog	Handle	HIGH	LOW						
6		WINSHIELD	Windshield Anti Ice	Switch	RAIN	OFF	ANTI ICE					
7		CANOPY	Canopy Open Close	Switch	OPEN	HOLD	CLOSE					
8		FCS BIT	FCS BIT Test	Switch	OFF	ON						
9		FCS CHAN 3, FCS CHAN 4, HOOK, LG		Panel / Breakers								

PROCEDURES

START UP PROCEDURE

Images from pre alpha DCS F/A-18C Lot 20

START UP

CONTROL	POS/ACTION	NOTES	LOCATION
PARKING BRAKE	SET		L Vert Con
BATTERY	ORIDE	Check EBATT 23.5V	R Con Fore
BATTERY	ON	Check EBATT 23.5V	R Con Fore
BRAKE PRESSURE		Check 3,000 PSI	L Vert Con
FIRE TEST	TEST A (HOLD)	Check lights and auditory signals	L Con Fore
FIRE TEST	Release		L Con Fore
BATTERY	OFF		R Con Fore
BATTERY	ON		R Con Fore
FIRE TEST	TEST B (HOLD)	Check lights and auditory signals	L Con Fore
FIRE TEST	Release		L Con Fore
CANOPY	CLOSE		Right Wall
APU	ON	Wait for Green Ready light	L Con Mid
ENG CRANK	R	Watch for 20% RPM on IFEI	L Con Mid
R THROTTLE	IDLE	Watch for @ 60% RPM, listen for "ROLL LEFT, ROLL LEFT" and Master Cuation tone	R Throttle and IFEI
IFEI		Check for < 815°C Engine Temp	IFEI
INS KNOB	GND		R Con Mid
BLEED AIR	NORM	Rotate 360° CW back to NORM	R Con Fore
L MDI	ON		L MDI
R MDI	ON		R MDI
HUD	ON		HUD CON
AMPCD	ON		AMPCD
COMM 1	SET		UFC
COMM 2	SET		UFC
STANDBY INDICATOR	UNCAGE		Gauges
RADAR ALTIMETER	SET		R Vert Con
RADAR ALTIMETER	ON		HUD CON
L MDI	SET TO FCS		L MDI
ENG CRANK	L	Watch for 20% RPM on IFEI	L Con Mid
L THROTTLE	IDLE	Watch for @ 60% RPM	L Throttle
OBOGS	ON		L Con Aft
OBOGS FLOW	SET		L Con Aft
RADAR	OPER		R Con Mid
MASTER CAUTION	CLICK	If Master Caution lit	L Dash
MASTER CAUTION	CLICK	If previous action taken	L Dash
FCS RESET	PRESS		L Con Mid
T/O TRIM	PRESS	Check FCS for 12° Stabs	L Con Mid
FLAPS	AUTO		L Vert Con
FCS MDI PAGE		Check FCS control surfaces, all should be 0° except Stabs	L MDI

IF COLD			
FCS RESET	HOLD		L Con Mid
FCS BIT	ON	Wait for FCS BIT to complete	Right Wall
ALL STARTS CONTINUED			
IFEI BINGO	SET	As desired	IFEI
CONTROLS	CHECK	24° STAB UP 3° STAB DOWN 25° L ROLL 25° R ROLL ±15° YAW BOTH DIRECTIONS	Stick and FCS Page
TCN	SET	Press TCN on UFC ON CLR Enter TACAN Station ENT Check X/Y on UFC Set Course on HSI	UFC and AMPCD
Zulu Time	HUD	MENU twice on L MDI HSI on L MDI TIMEUFC on L MDI ZTOD on UFC	MDI and UFC
L MDI		Set FCS Page (MENU, MENU, FCS)	L MDI
ANTI SKID	ON		L Vert Con
FLAPS	HALF		L Vert Con
TAXI LIGHTS	ON		L Vert Con
HOOK BYPASS	AS NEEDED		L Vert Con
INS	NAV		R Con Mid
L MDI		Set to T/O Check List	L MDI
R MDI		Set to FCS	R MDI
PARKING BRAKE	RELEASE		L Vert Con
PRIOR TO TAKING RUNWAY			
EJECTION SEAT	ARM		Seat Arm
ON RUNWAY PRIOR TO T/O			
L MDI		Set to HUD	L MDI
BRAKES	HOLD		Rudder
THROTTLES	80%	Check Values	Throttle and IFEI
CONTROLS		Wipe	Stick
BRAKES	RELEASE		Rudder
THROTTLES	MAX/MIL		Throttle
At rotate speed pull back @7°			Stick
Gear up before 240 knots			L Vert Con

CARRIER LANDING

CARRIER CASE 1 LANDING	
Enter 5 nm orbit around carrier	
Establish BARO hold at 2,000 ft	UFC A/P Select BALT
ATC	Engage at 250 kts
R MDI	Set to FCS
L MDI	Set to HUD
MASTER ARM	OFF
TACAN	Setup: TCN on UFC ON/OFF to turn ON Press CLR Enter TCN (5-5 for Stenis) Press ENT Check X/Y
HSI	Set TCN Course line to heading: TCN on AMPCD Adjust Heading until aligned type heading in UFC Press ENT on UFC
DEFOG	HIGH
RADALT GAUGE	Set 370 ft
HOOK	DOWN
ALT	RADALT
ANTI SKID	OFF
HOOK BYPASS	CARRIER
Maintain altitude and speed as needed, circle carrier	
Break 2,000 ft deck abeam and behind the boat (base)	
Pass on starboard side of carrier at 800 ft / 350 kts	
Break into pattern on crosswind ≤ 1.5 nm ahead of carrier	
Slow to < 250 knots	
GEAR	DOWN
FLAPS	FULL
Level off on downwind 1.2 - 1.3 nm parrellel to carrier course line	
Establish 8.1° AOA (watch indicator) at 600 ft	
Adjsut power and trim to maintain	
When round down and stern are visible on carrier roll in 30°	
Establish 100-200 ft/min descent through first 90° of turn	
Roll out on groove	
Keep IFLOS ball on HUD centered	
Maintain ball, alignment with runway, and AOA - repeatedly	
Follow the ball to touch down - don't look at deck	

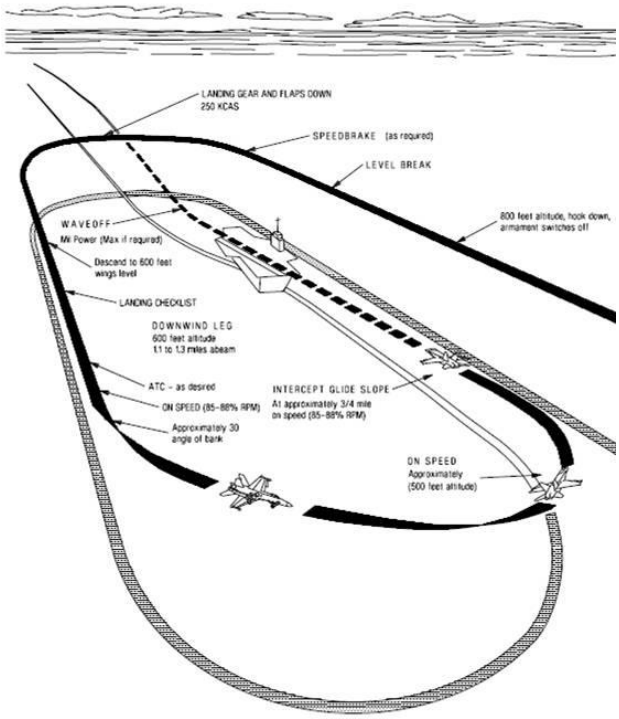


Figure 8.2, Page III-8-10, A1-F18AC-NFM-000 NATOPS Flight Manual

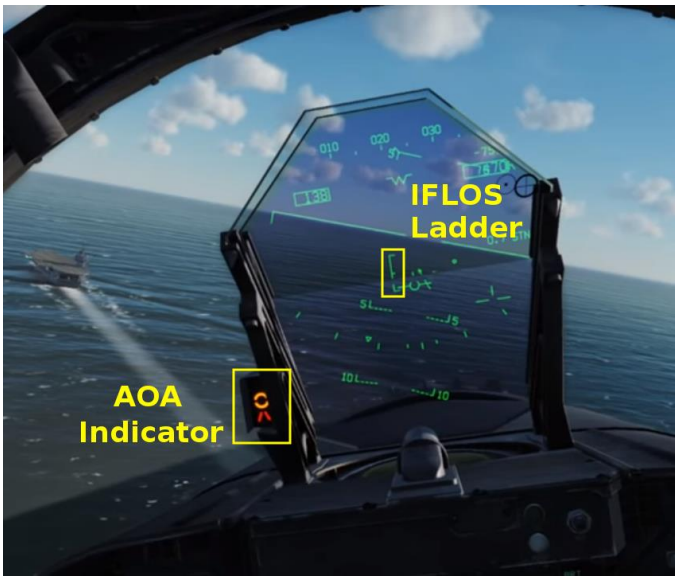


Image from pre-alpha DCS F/A-18C Lot 20

CARRIER CATAPULT TRIM AND POWER SETTINGS

CAT LAUNCH ASYMMETRIC STORES ROLL TRIM	
Weight Difference	Unloaded Wing Down Trim
< 11,000 lb	No Trim
11,000 lb	2°
12,000 lb	2.5°
13,000 lb	3.25°
14,000 lb	3.75°
15,000 lb	4.5°
16,000 lb	5°
17,000 lb	5.5°
≥ 18,000 lb	6°
* estimated trim settings based on Figure 8-1 of NATOPS	
≤ 36,000 weight do not load > 6,000 lb asymmetric	

CAT LAUNCH PITCH TRIM	
Weight Board	NU Trim
≤ 44,0000 lbs	16°
45,000 - 48,000 lbs	17°
≥ 49,000 lbs	19°

CAT THROTTLE SETTINGS	
Weight Board	Power
≤ 44,000 lbs	MIL MIL/MAX MAX
≥ 45,000 lbs	MAX