

## F-16C Quick Reference Kneeboard

### **Startup Checklist**

- **Armament and Fuel** - Set
- **IFF Master** - NORM
- **Lights** - As Required
- **Main Power Switch** - MAIN PWR
- **JFS Switch** - START 2
- **UHF Radio** - BOTH
- **MMC,ST STA,MFD,UFC,MAP,GPS,DL** - ALL ON
- **MIDS LVT** - ON
- **Once RPM >21%** - IDLE
- **Canopy** - Closed and Latched
- **TWR** - POWER
- **HMCS** - ON
- **CMS** - MAN
- **Chaff/Flare Switches** - UP
- **Seat** - ARMED
- **Stores Config** - A2A < 3 Bags = CAT 1 Otherwise CAT 2
- **HUD** - ON
- **COMMS** - SET
- **SAI** - UNCAGED
- **INS** - STOR HDG
- **Fuel Selector** - SET
- **L/R Hpdt** - ON
- **FCR** - ON
- **RDR ALT** - ON
- **HUD Symbology** - SET
- **When INS Flashing RDY** - NAV
- **Altimeter** - SET
- **HMCS** - ALIGN
- **TACAN** - SET
- **Datalink** - Configured
- **Oxygen** - ON



## **Takeoff KIAS / Weight**

- **20,000lbs** - 128kts
- **25,000lbs** - 146kts
- **30,000lbs** - 162kts
- **35,000lbs** - 176kts
- **40,000lbs** - 190kts
- **45,000lbs** - 202kts

## **Shutdown Checklist**

- **Speedbrakes** - CLOSED
- **SEAT** - DISARMED
- **IFF Master** - STBY
- **Lights** - OFF
- **Parking Brake** - SET
- **INS Knob** - OFF
- **HUD** - OFF
- **SNSR PWR SWCHS** - OFF
- **Throttle** - OFF
- **<20% RPM** - MAIN PWR SWCH OFF
- **Oxygen** - OFF
- **Canopy** - UNLATCHED and OPEN

## **Air Engine Restart**

- **Altitude** - <30,000 Ft
- **Speed** - 250kt (170kt - 400kt)
- **Throttle** - OFF THEN MID RANGE
- **Altitude** - <10,000 Ft
  - **ENG CONT SWCH** - SEC (Immediate)
- OR
- **Altitude** - >10,000 Ft
  - **CHK CLP** - SEC
  - **RPM** - > RPM 50% IN PRI
  - **ENG CONT SWCH** - SEC

## **Aerial Refueling**

- **Aerial Refuel Switch** - OPEN
- **Pre-Contact** - Center/Low
- **Radio** - "Ready Pre-Contact"
- **Pilot Director Lights**
  - **Left(Height)** - UP=Fore Down=Aft
  - **Right(Pos)** - Fore=Fore Aft=Aft
- **"Transfer Complete"** - Nose Down
- **Aerial Refuel Switch** - CLOSE

## **LITENING HOTAS Commands**

- **DMS DN** - Swap SOI L/R
- **TMS UP** - AREA/PT TRCK
- **TMS LFT** - TV CAM/IR POLAR
- **TMS DN** - SLAVE BORE
- **MAN RNG** - ZOOM
- **EXP/FOV** - FOV Toggle
- **Trig DET 1** - Fire Laser
- **Radar Slew** - SLEW TGP
- **UNCAGE** - LSS

## **Useful Formulas**

### **Speed/Time/Distance**

- **Ground Speed required (knots)**= (Distance/Minutes)x 60
- **Time of Flight (mins)**= (Distance/Ground Speed) x 60

### **Fuel/Endurance**

- **Bingo Fuel (lbs)**= (Time of Flight/60) x Fuel Burn (lb/hr)
- **Objective Time (mins)**= ([Total Fuel - Bingo] ÷ Fuel lb/hr) x 60

### **Altitude/Elevation Conversion**

- **Feet to Meters**- [ft]/3.281= Meters
- **Meters to Feet**- [m]x 3.281= Feet

## Latitude/Longitude Conversion

- DDD-MM-SS.SS to DDD-MM.MMM
  - $SS.SS/60 = .MMM$
- DDD-MM.MMM to DDD-MM-SS.SS
  - $.MMM \times 60 = SS.SS$

## **Maverick Alignment Procedure (Ground)**

- **Maverick & TGP - POWERED ON**
- **GND JETT ENABLE - ON**
- **Master Arm - SIM**
- **Master Mode - A/G**
- **TGP Mode - A/G**
- **AG65 - PRE or VIS**
- **TGP - Slew to Target**
- **WPN - Slew to Same Target - Designate (TMS UP)**
- **WPN - BSGT OSB (20)**
- **Repeat for Each Station**
- **Mavericks - Powered Off**
- **Switches - Reset**

**HOTAS Commands**

**• Data Management Switch (DMS)**

Direction	Duration	HUD	FCR	TGP	WPN
Fwd	Short		SOI to HUD	SOI to HUD	SOI to HUD
	Long				
Aft	Short	SOI to MFD	SOI MFD Swap	SOI MFD Swap	SOI MFD Swap
	Long				
Left	Short		Next LFT MFD Format	Next LFT MFD Format	Next LFT MFD Format
	Long				
Right	Short		Next RT MFD Format	Next RT MFD Format	Next RT MFD Format
	Long				

**• Target Management Switch (TMS)**

Direction	Duration	HUD	FCR	TGP	WPN	HSD
Fwd	Short	DTOS/EO-Vis Designate	RWS Spotlight / ACM BORE	Point Track	Track	Designate
	Long					
Aft	Short	Target Reject	Target Reject		Target Reject	Drop
	Long					
Left	Short		Interrogate All	Polarity Swap	Polarity Swap	
	Long		Interrogate Tgt			
Right	Short		TWS bug step / ACM rotary	Area Track		
	Long		TWS/RWS Swap			

**• Countermeasure Management Switch (CMS)**

Direction	Function
Fwd	Dispenses selected manual program
Aft	Gives consent in SEMI and enables AUTO dispense modes
Left	No function
Right	Disables AUTO dispense mode

## 9-Line Assistant

1. **IP/BP:\_\_\_\_\_** - Initial Point or Battle Point
2. **Heading:\_\_\_\_\_Offset:L\_\_\_\_\_R\_\_\_\_\_** - HDG(mag) from IP to TGT
3. **Distance:\_\_\_\_\_** - From IP to BP given in NM
4. **Target Elevation:\_\_\_\_\_** - In feet above MSL
5. **Target Description:\_\_\_\_\_** - Detailed description of area
6. **Target Location:\_\_\_\_\_** - UTM/MGRS/LatLong/Navaid/Visual
7. **Mark Type:\_\_\_\_\_Code:\_\_\_\_\_LTL:\_\_\_\_\_** - LTL= Laser Target Line
8. **Friendlylies:\_\_\_\_\_** - Location of nearest friendlylies
9. **Egress:\_\_\_\_\_** - Direction to depart after attack
- **Remarks:\_\_\_\_\_**
  - Troops in contact or danger close
  - Airspace coordination: final attack heading (FAH) or altitude restrictions
  - Threat
  - SEAD support in effect
  - Active gun target lines
  - Ordnance Requested
  - Hazards
  - Weather
- **TOT:\_\_\_\_\_ or TTT:\_\_\_\_\_**
  - Time Over Target- Specific time ordnance will hit target
  - Time To Target- Countdown timer started with "HACK!"