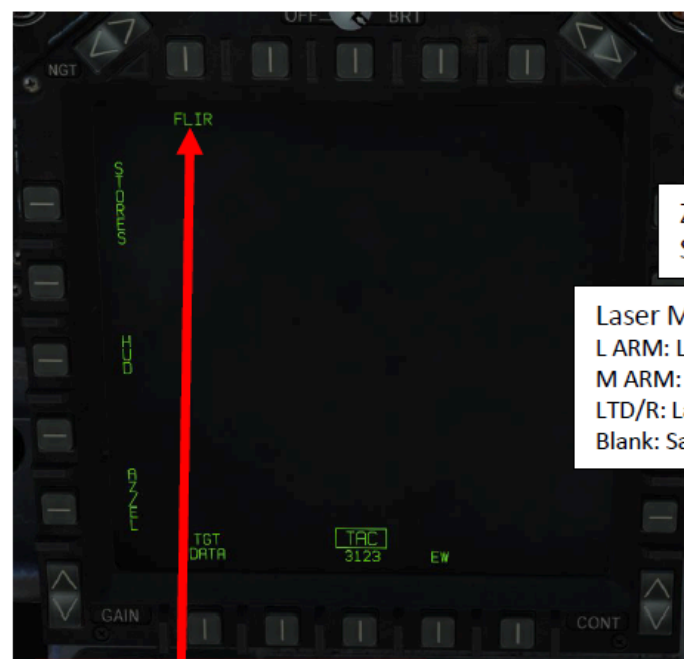


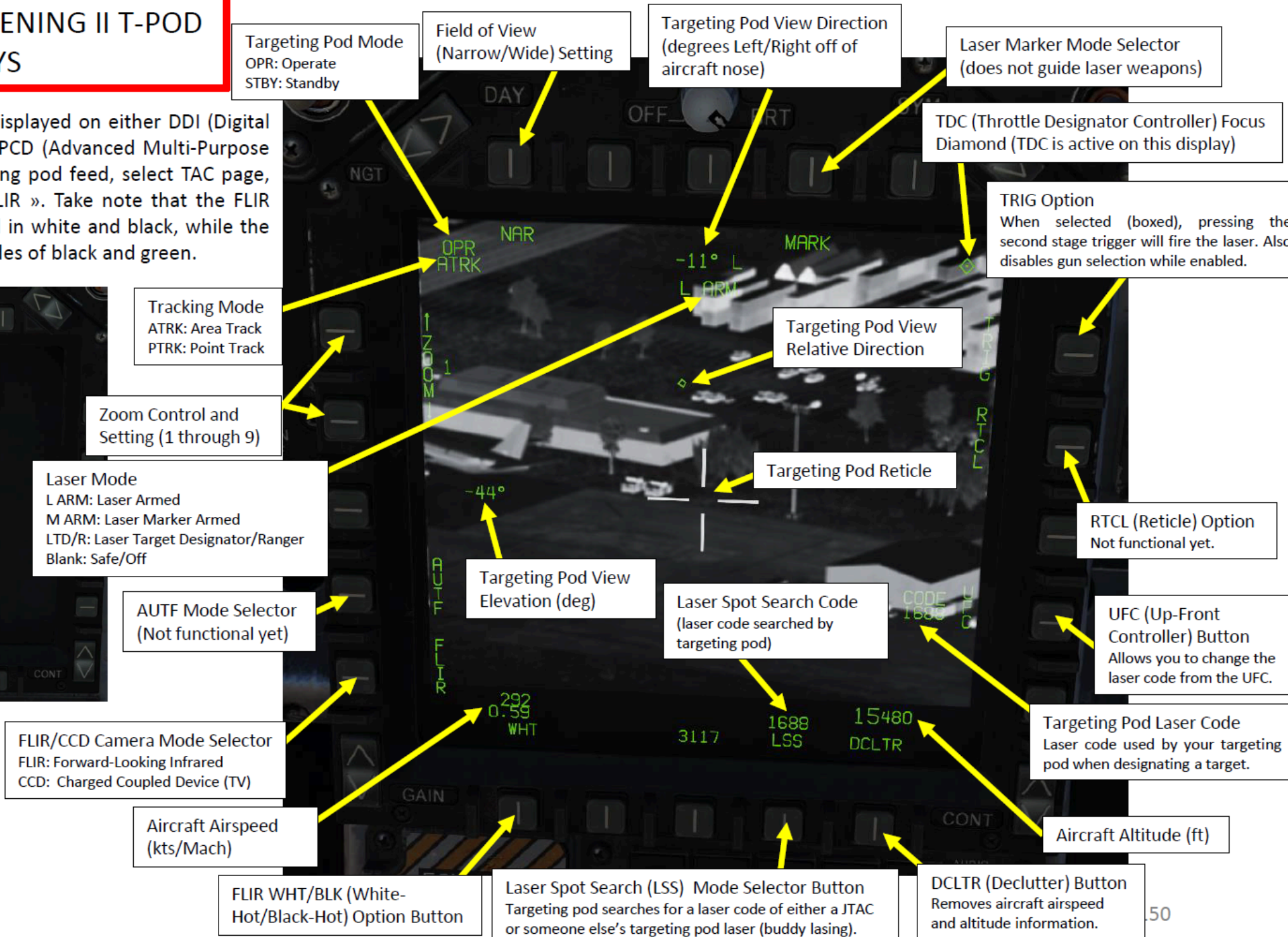
Chuck's Guide : <https://www.mudspike.com/chucks-guides-dcs-f-a-18c-hornet/>

3 - AN/AAQ-28(V) LITENING II T-POD DISPLAYS

The targeting pod feed can be displayed on either DDI (Digital Display Indicator) or on the AMPCD (Advanced Multi-Purpose Color Display). To display targeting pod feed, select TAC page, then click on the OSB next « FLIR ». Take note that the FLIR page on the AMPCD is displayed in white and black, while the FLIR page on the DDIs are in shades of black and green.



From the TAC page, you can access the targeting pod feed by pressing the OSB next to "FLIR".

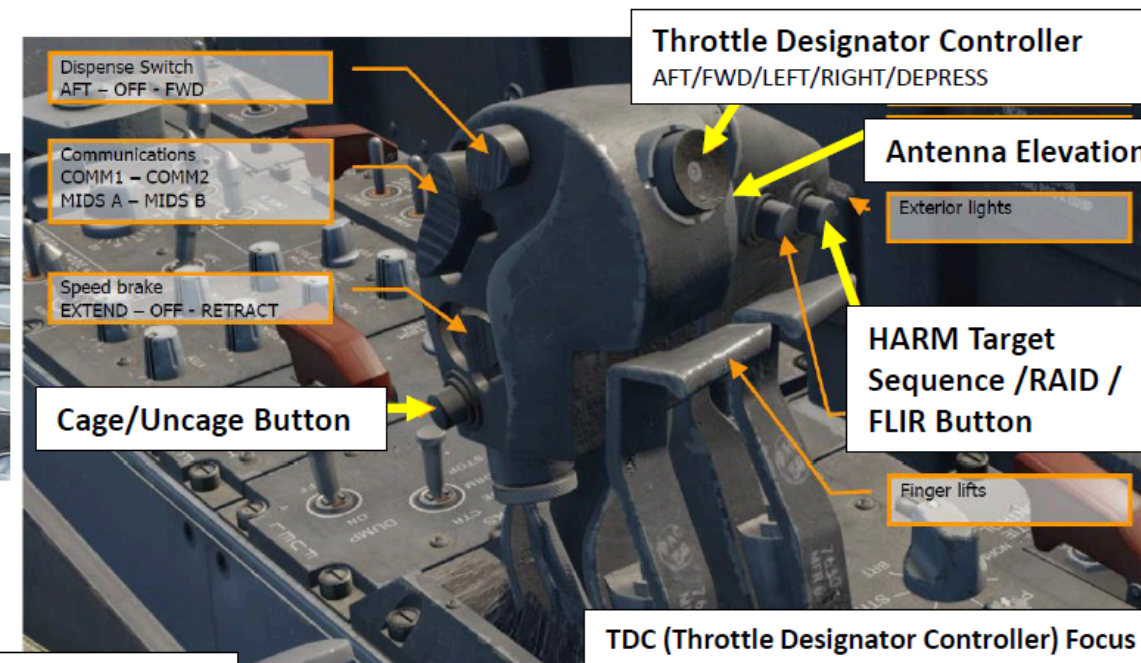


3 - AN/AAQ-28(V) LITENING II T-POD CONTROLS

Some useful HOTAS functionalities when using the targeting pod:

- **Sensor Control Switch Directions:** Selects which display is used to slew the targeting pod view with the TDC (Throttle Designator Controller). The Select Focus Diamond indicates what display is selected.
- **Sensor Control Switch Held Towards Selected Display:** Toggles between Point Track (PTRK, tracks an object like a high-contrast vehicle) and Area Track (ATRK).
- **Radar Elevation Control:** controls zoom (can also be controlled directly from the DDI/AMPCD FLIR page)
- **RAID/FLIR Field-of-View Select Button Short Hold:** Toggles Wide/Narrow field-of-view
- **RAID/FLIR Field-of-View Select Button Long Hold:** Toggles TV (CCD, Charged-coupled Device) and FLIR (Infrared) modes
- **Throttle Designator Controller (TDC) Up/Down/Left/Right:** Slews targeting pod reticle
- **Throttle Designator Controller (TDC) Depressed:** Designates the point under the targeting pod crosshairs as the target (used by weapons)
- **Nosewheel Steering Button:** Undesignates target
- **Cage/Uncage Button:** Cages the targeting pod in Boresight mode (looks straight ahead, five degrees down).
- **Gun Trigger (Second Stage):** Fires laser if TRIG mode is boxed on the FLIR page.

A/G Master Mode Button
(required to use laser)



Sensor Control Switch
AFT/FWD/LEFT/RIGHT/DEPRESS



Gun Trigger (Second Detent)

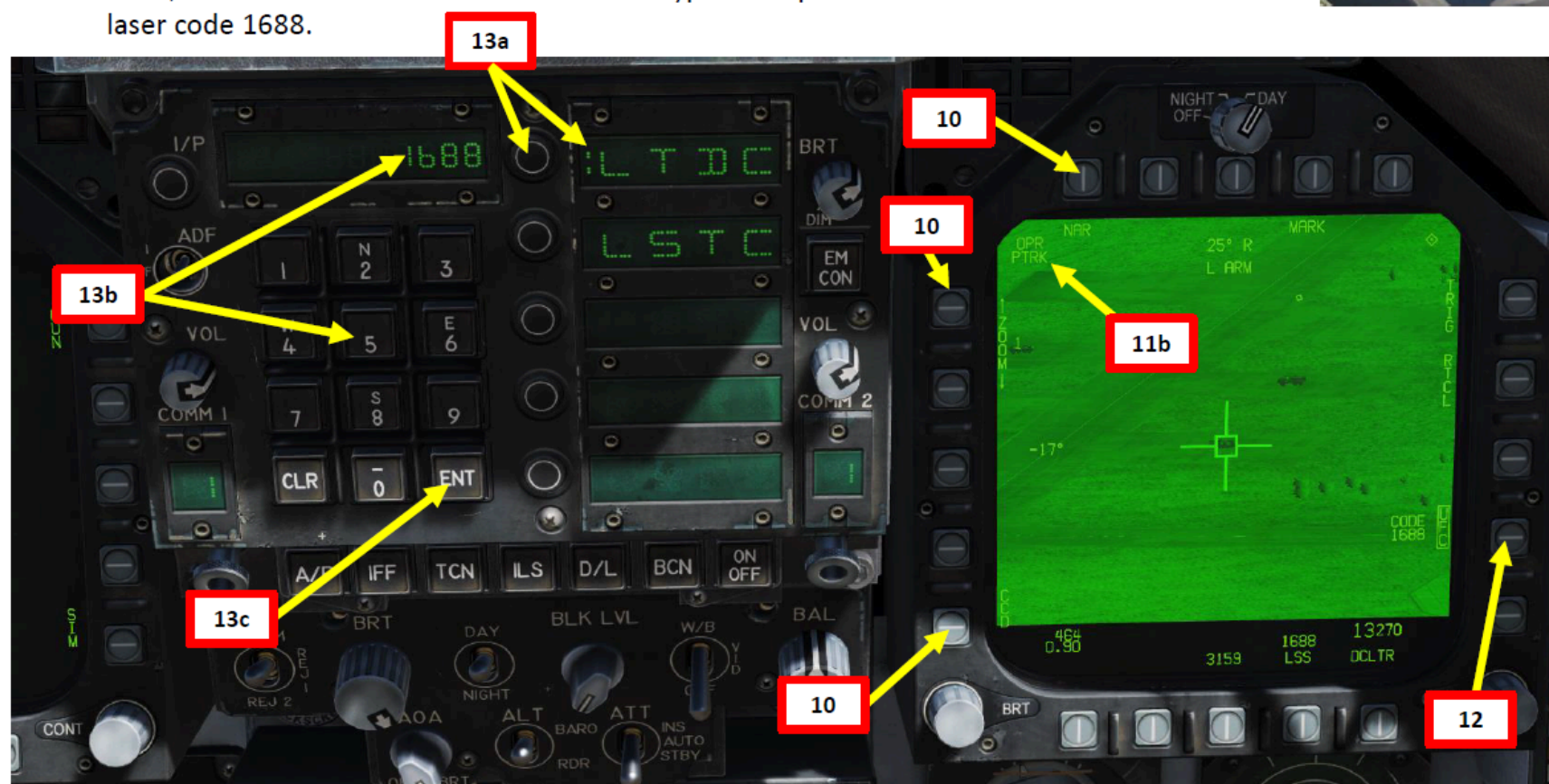
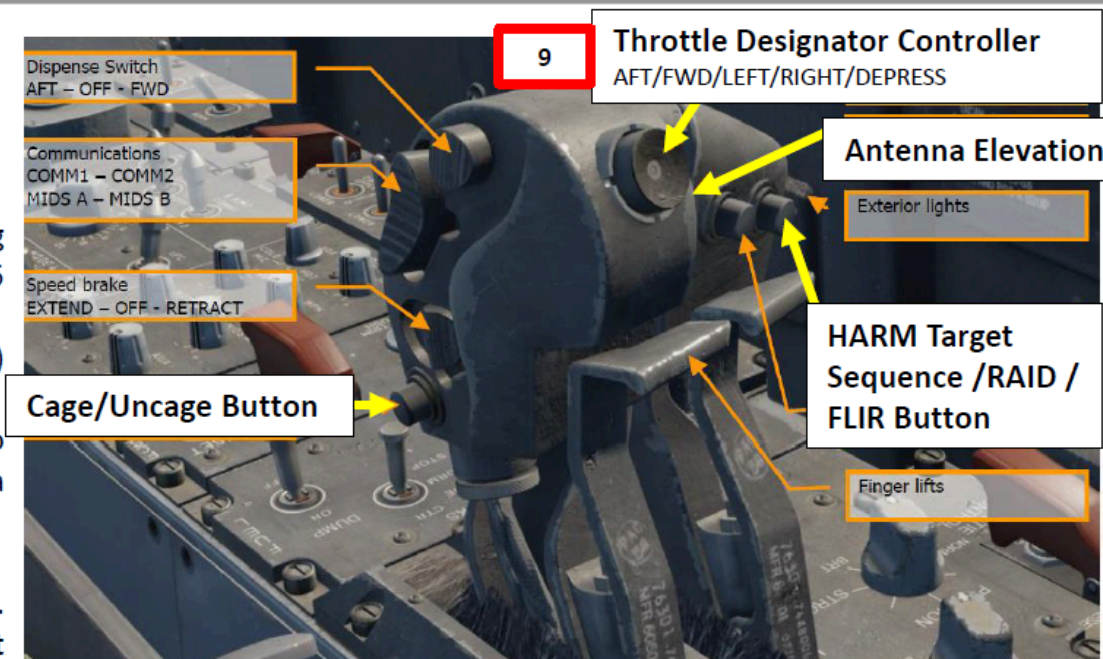
Undesignate / Nosewheel Steering Button

TDC (Throttle Designator Controller) Focus Diamond (TDC is active on this display)



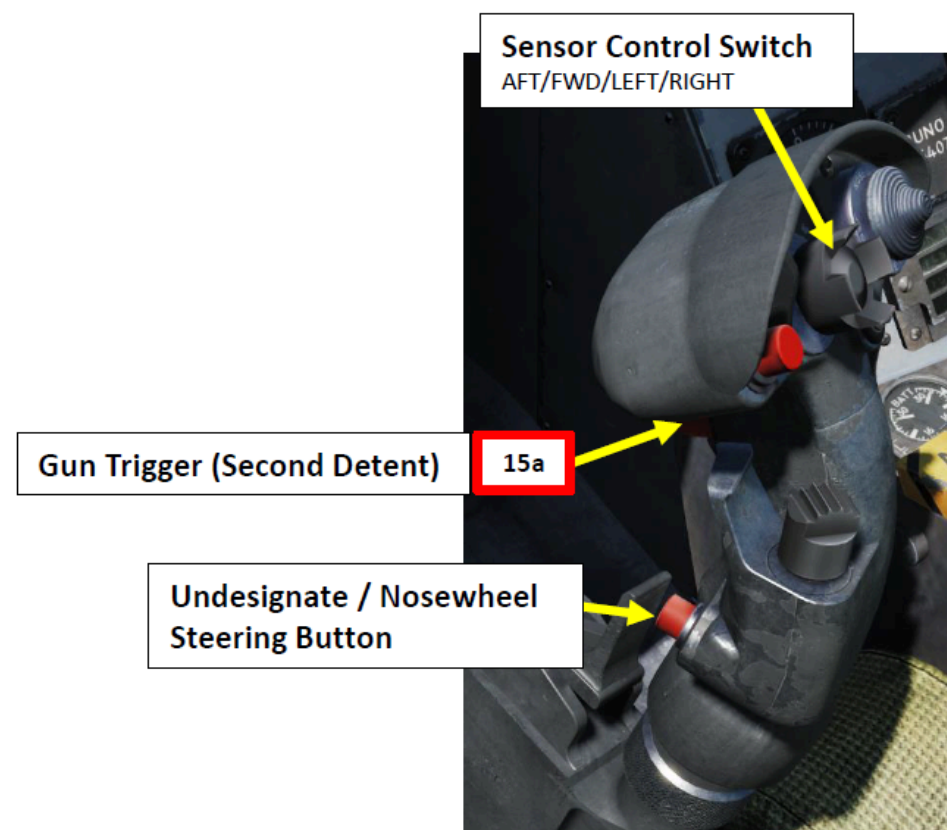
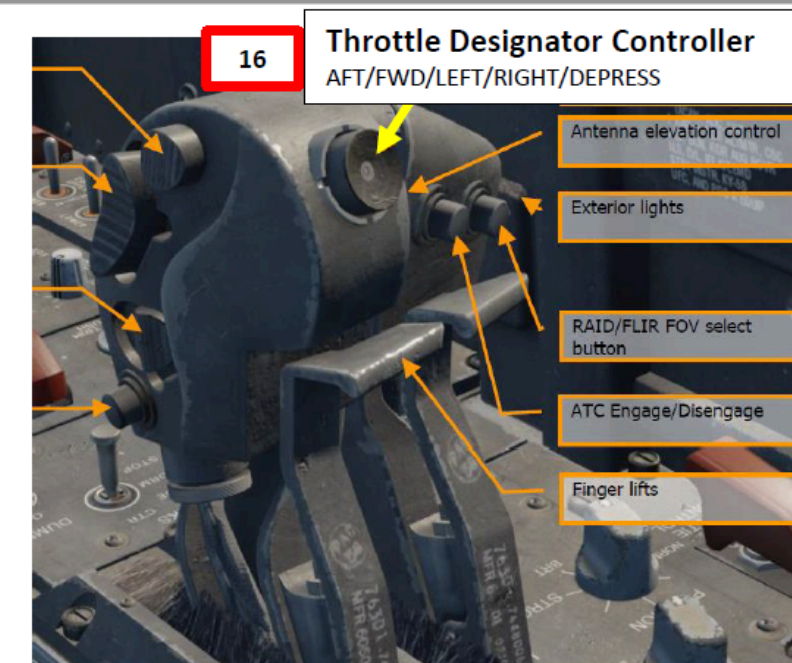
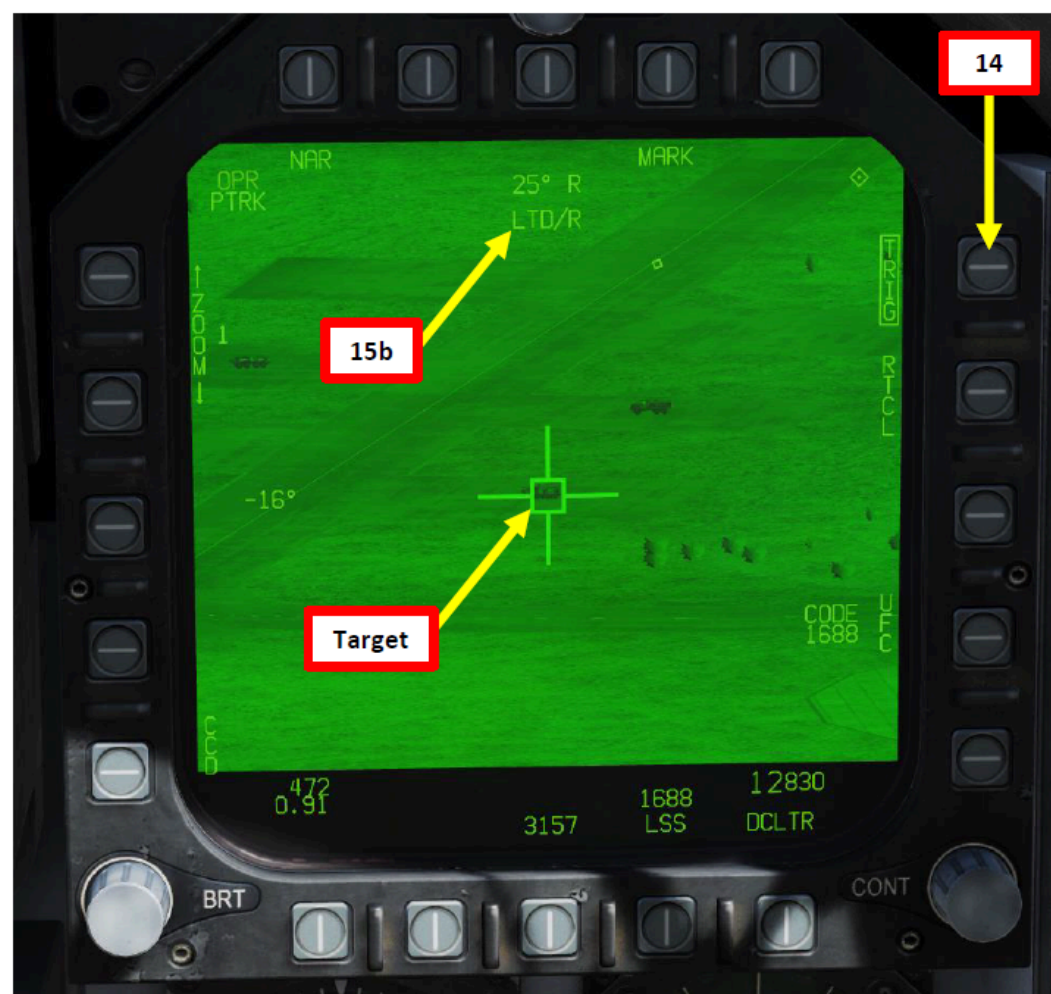
3 - AN/AAQ-28(V) LITENING II T-POD START-UP & LASING PROCEDURE

9. Using the TDC (Throttle Designator Controller) Aft/Fwd/Left/Right controls, slew the targeting pod reticle over the desired target. The targeting pod is boresighted by default to a forward, 5 deg down view.
10. Use appropriate zoom level, field of view (NARROW/WIDE) and camera mode (CCD/TV or FLIR) to identify the target.
11. Press the Sensor Control Switch Towards Selected Display (Right if our right DDI is selected) to toggle between Point Track (PTRK, tracks a moving object like a high-contrast vehicle) and Area Track (ATRK, used for a static target).
12. Press the OSB next to "UFC" to set the Targeting Pod laser code on the Up-Front Controller.
13. Press the button next to "LTDC" (Laser Target Designator Code). A ":" will indicate it is selected. Then, enter the desired laser code on the keypad and press "ENT". We will choose the default laser code 1688.



3 - AN/AAQ-28(V) LITENING II T-POD START-UP & LASING PROCEDURE

14. Press the OSB next to "TRIG". The indication will become boxed once selected, which means that a gun trigger press will fire the laser.
15. Press the gun trigger to fire laser. Once laser is firing, the laser mode will switch from L ARM to LTD/R.
16. Use the TDC (Throttle Designator Controller) Depress button to designate the laser as the target point. This will slave selected air-to-ground weapons to where the laser is firing.
17. You may now launch laser-guided weapons as per their release procedure.
18. When desired, press the Gun Trigger a second time to stop firing the laser. You can use the Undesignate/Nosewheel Steering button to undesignate the target.

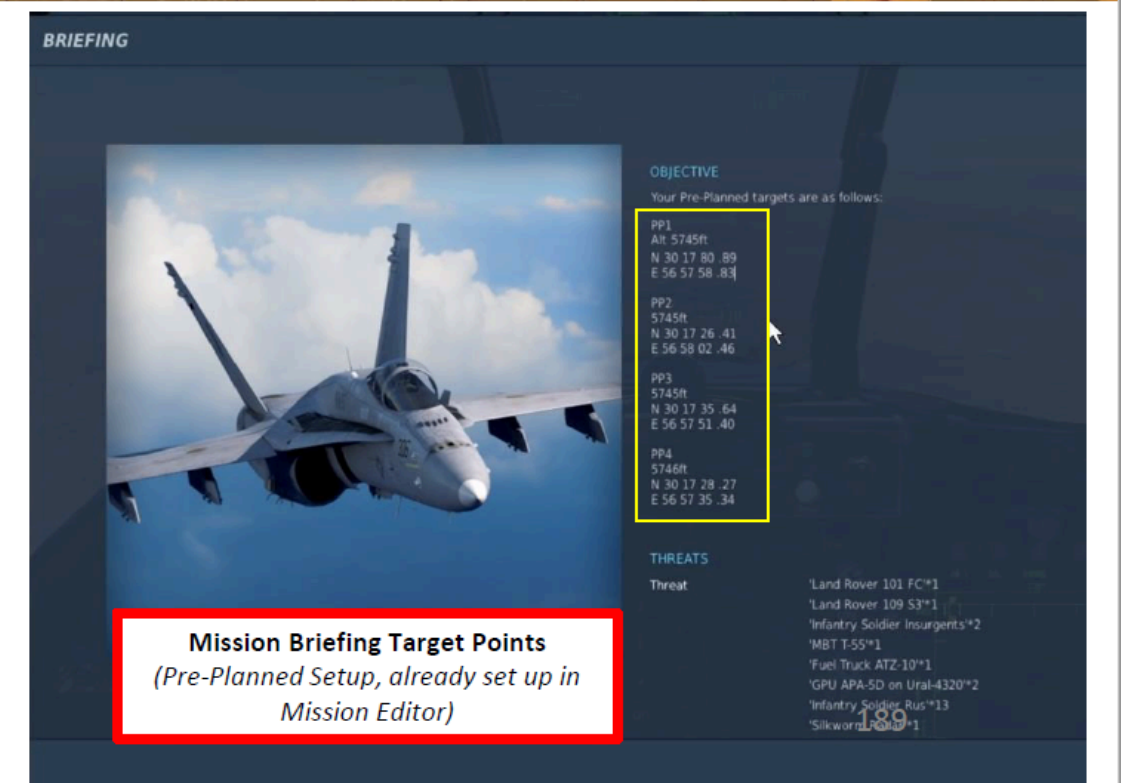
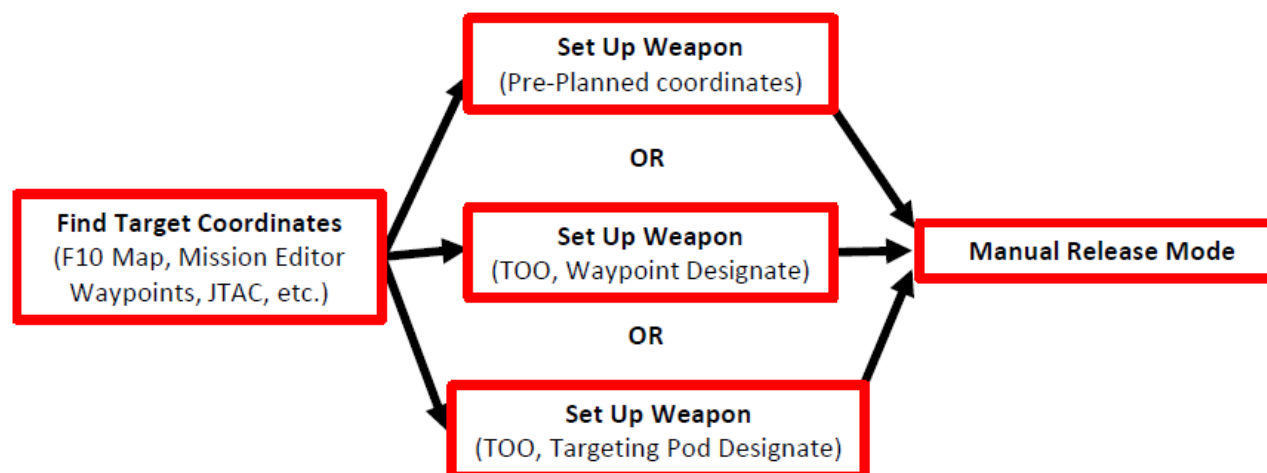


2.5 – GBU-38 JDAM INTRODUCTION

The F/A-18C is able to employ the Global Positioning System (GPS)-guided Joint Direct Attack Munition (JDAM) bombs and the Joint Standoff Weapon (JSOW) glide bombs. JDAMs are modified general purpose bombs, equipped with a GPS and inertial navigation system (INS) for guidance as well as flight controls. The JSOW has the same guidance and is a bomb with wings to provide lift and maneuvering flight controls. As such, it has a significantly longer range than JDAMs. The JDAMs/JSOWs have (at optimal INS alignment) a margin of error of approximately 16ft (5m). Independent programming of each individual bomb allows for simultaneous multi-target attacks.

Basically, the way to employ JDAMs is to first get your target coordinates from either the mission briefing or using the F10 map, input them to the weapons in either Pre-Planned Mode (coordinates need to be entered manually) or in TOO Mode (Target of Opportunity, weapons use the existing A/G (Air-to-Ground) designation, which is the Hornet (or Harrier) equivalent of the SPI (Sensor Point of Interest) in the A-10C. Currently, we can only make an A/G designation with WPDSG (Waypoint Designate) button or via the HUD, but in the future it will also be possible to designate with the JHMCS, TGP or A/G radar).

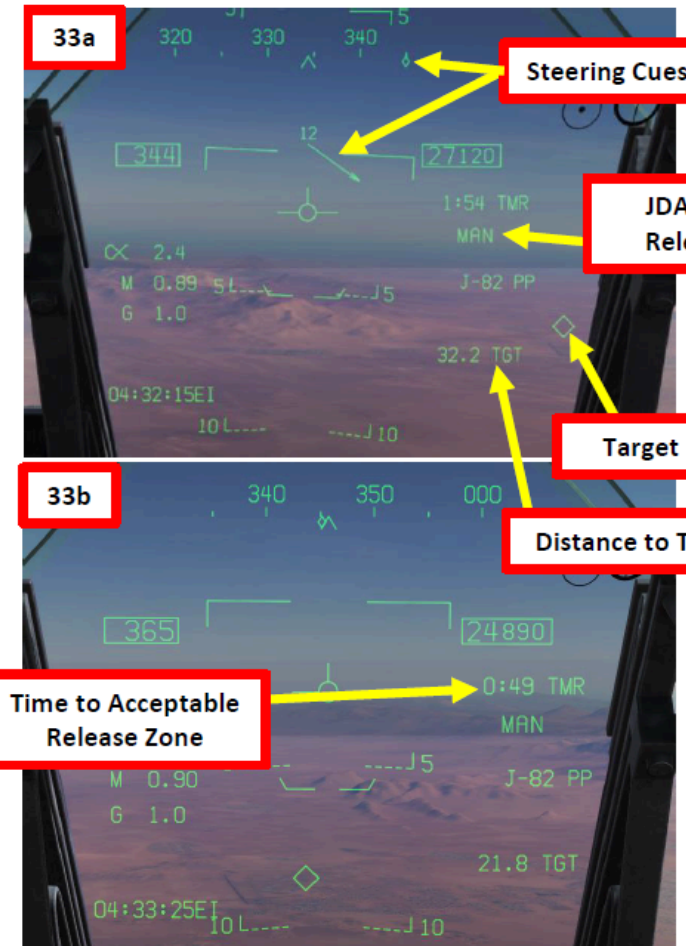
For the JDAM tutorial, we will use the Pre-Planned Mode while for the JSOW tutorial we will use TOO Mode. Once the setup is done and the weapon alignment has been performed, we will then be able to release them in Manual Mode.



2.5 – GBU-38 JDAM PRE-PLANNED + MANUAL MODE

Launch Weapons

28. Master Arm switch – ARM (UP)
29. Master Mode – A/G
30. On the SMS (Stores Management System) page, verify that J-82 is selected
31. Set HSI on the right DDI and the JDAM Display page on the left DDI (from SMS page, press the JDAM DSPLY OSB, then select MSN (Mission) page)
32. Verify that Manual Release PP Release Mode is selected and that the desired station and PP is selected.
33. Steer aircraft to the target (indicated by a diamond on the HUD)





F/A-18C
HORNET

PART 10 – OFFENCE: WEAPONS & ARMAMENT

2.5 – GBU-38 JDAM PRE-PLANNED + MANUAL MODE

Launch Weapons

34. When you are within the acceptable release zone (between the minimum and maximum release limits identified on the HSI), the HUD will switch from displaying “TMR” (Time to reach acceptable release zone) to “IN RNG” (In Range). You may now release your weapons.
35. Hold the Weapon Release Button (« RALT+SPACE ») to drop your first bomb.
36. Once the bomb is released, the system will step to the next available JDAM. Verify that PP and station match as per our plan, then release weapon when ready.



Time to Acceptable
Release Zone



In Range





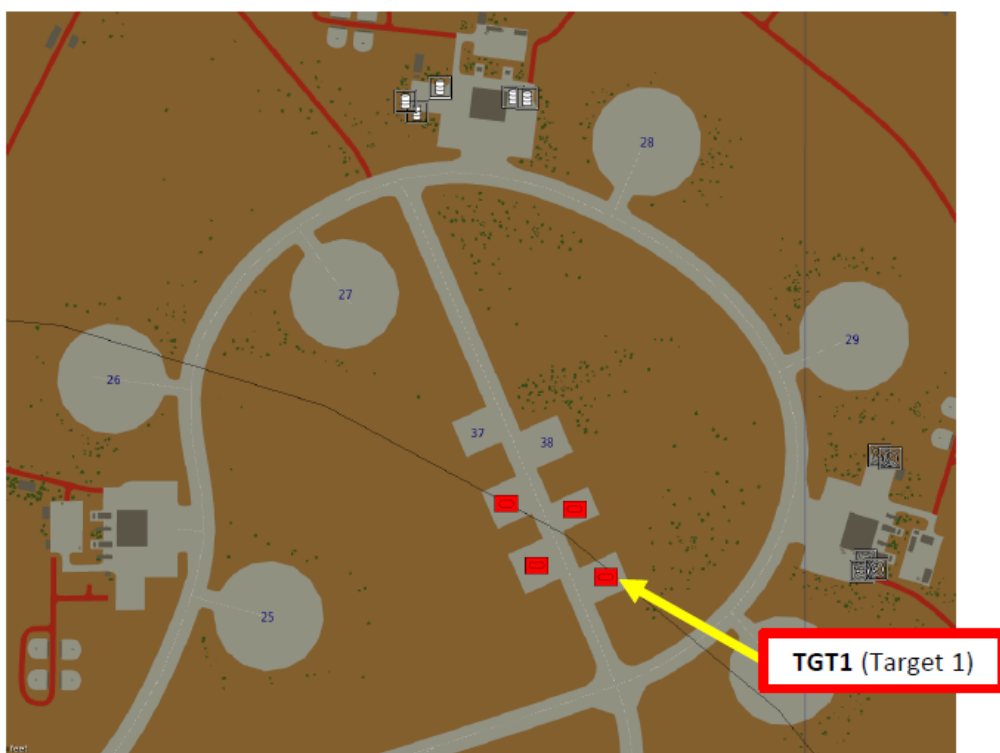
F/A-18C
HORNET

PART 10 – OFFENCE: WEAPONS & ARMAMENT

2.7 – GPS-Guided Ordnance (JDAM/JSOW)

TARGETING POD + TOO

A neat feature of the targeting pod is that you can designate targets with it even without a laser. The laser is used for laser-guided weapons, so the GPS-guided units only need valid coordinates. These coordinates can be obtained by designating a target with the targeting pod while the JDAM/JSOW is in TOO (Target of Opportunity) Mode. The coordinates are then memorized and automatically transferred to the selected JDAM/JSOW.



Find Target with Targeting Pod
and Designate with TDC

From Targeting Pod Designated
Point, Obtain Coordinates

Set Up Weapon - TOO
(TOO, uses Designated Point from Targeting Pod)

Manual Release Mode

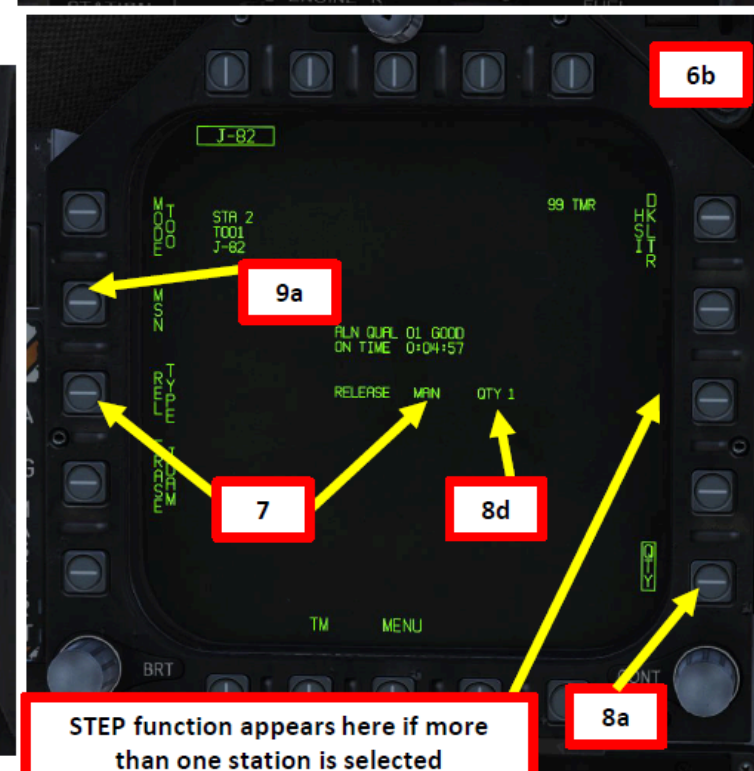
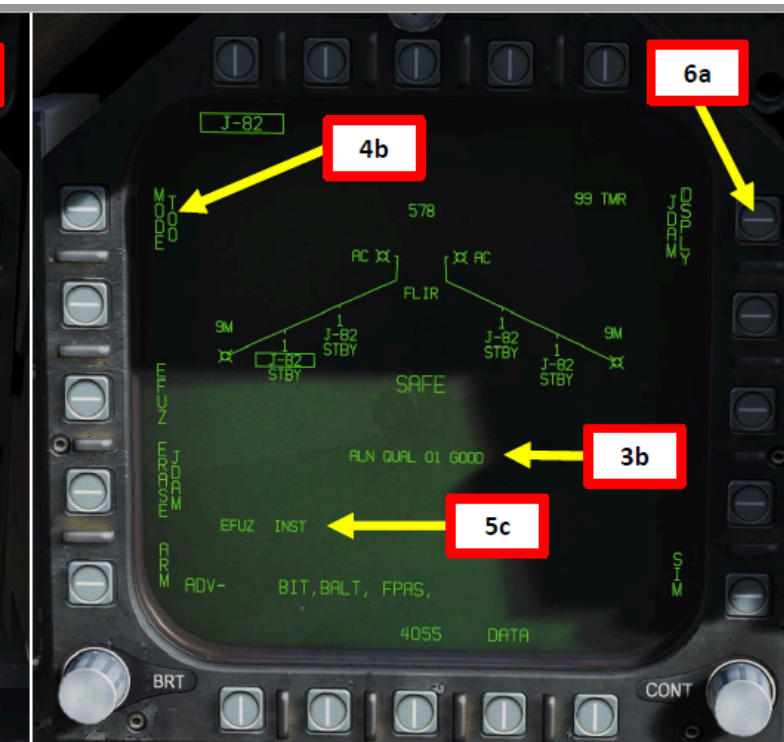
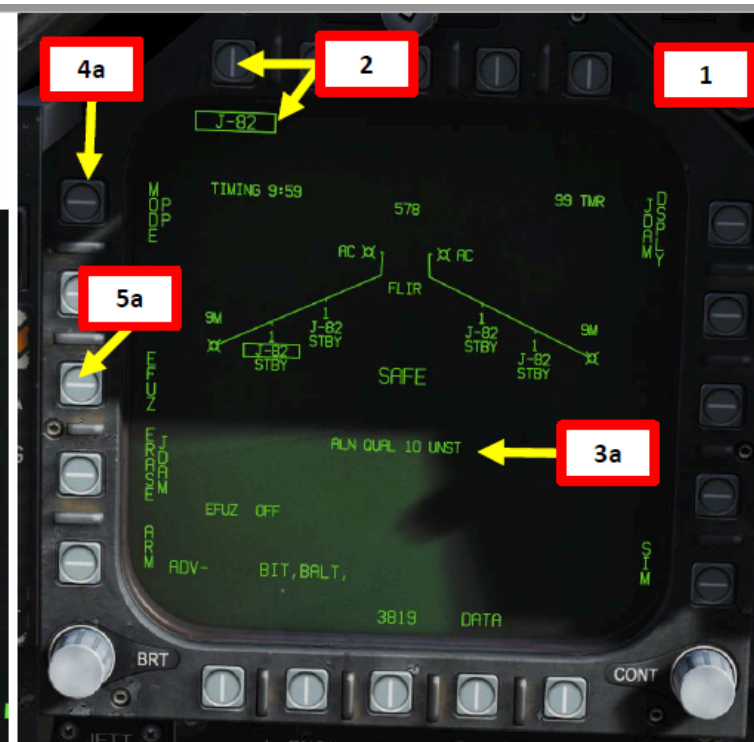


F/A-18C
HORNET

PART 10 – OFFENCE: WEAPONS & ARMAMENT

2.7 – GPS-Guided Ordnance (JDAM/JSOW) TARGETING POD + TOO

1. While on the ground, go in SMS (Stores Management System) page
2. Click on the desired JDAM or JSOW to select it (we will use the J-82 JDAM)
3. Once selected, JDAMs need about 3 minutes for alignment. It will go from 10 UNSTABLE, to 06 MARGINAL and finally 01 GOOD. When alignment is complete, the TIMING indicator will disappear from the JDAM page.
4. Select TOO (Target-of-Opportunity) Release Mode
5. Select Electronic Fuze to INST (Instantaneous).
6. Go in the JDAM Display page by pressing the JDAM DSPLY OSB
7. Select Manual Release Type
8. Select desired JDAM quantity to be used for this mission.
 - a) Press the OSB next to QTY
 - b) Select desired station(s) to be used for the mission (I suggest you select just one). Selected station(s) will become boxed.
 - c) Press the OSB next to RTN (Return).
 - d) If quantity is set to more than 1, the STEP function will be available to select desired weapon station.
 - e) You may need to re-select TOO mode.
9. Enter MSN (Mission) page.
10. Select TOO1 to set Target 1 parameters. We will now have to designate Target 1 with the Targeting Pod to obtain the coordinates of this target.



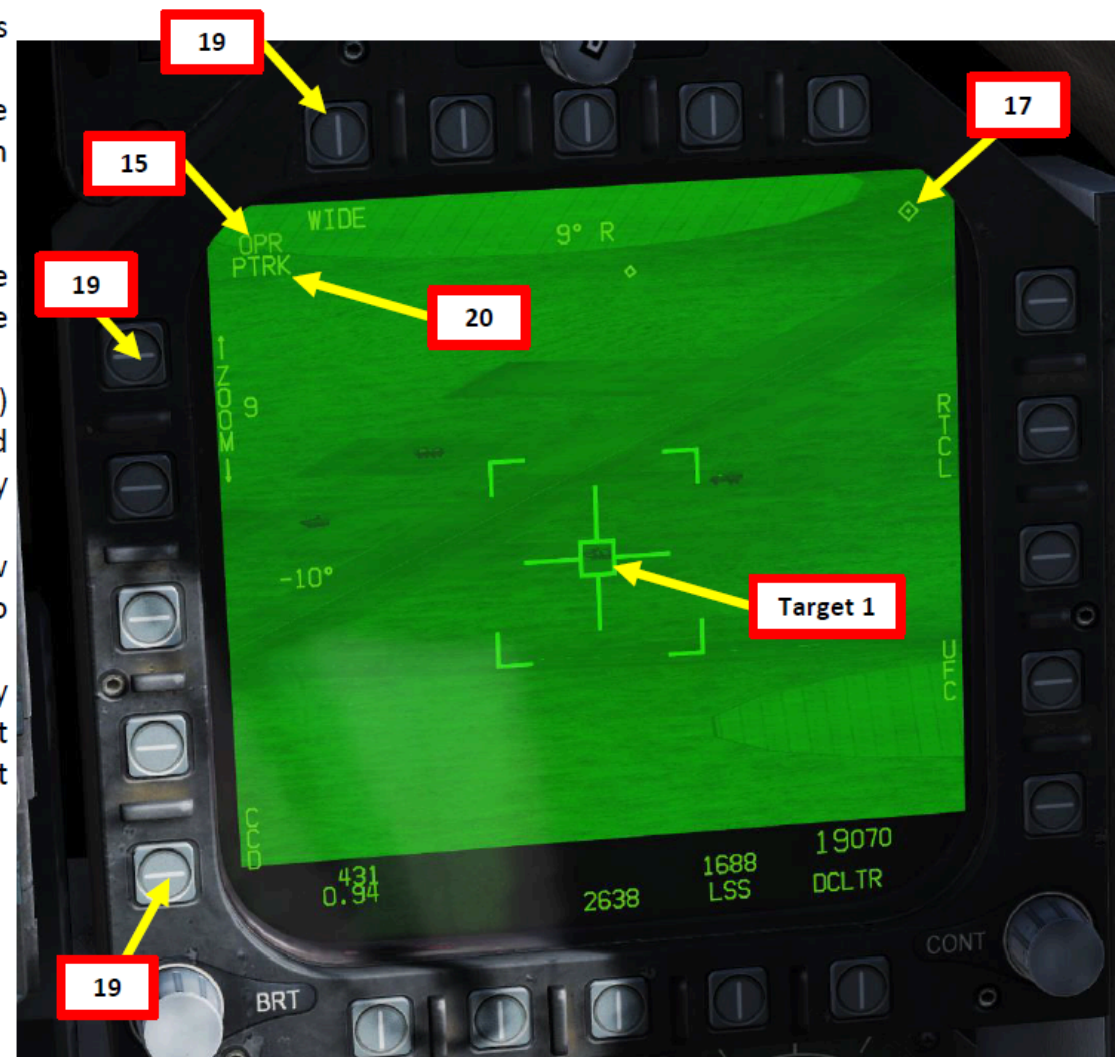
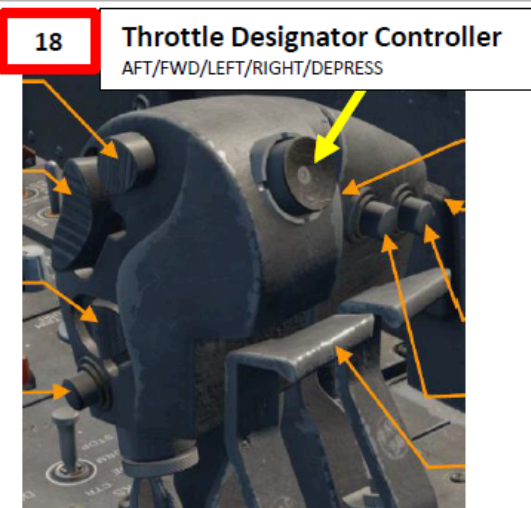
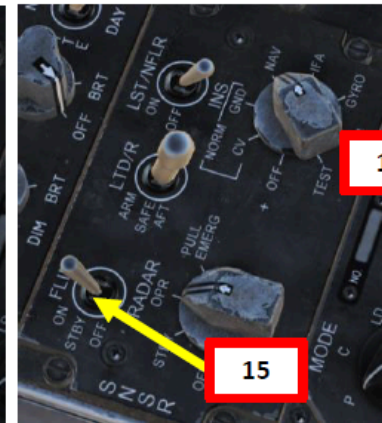
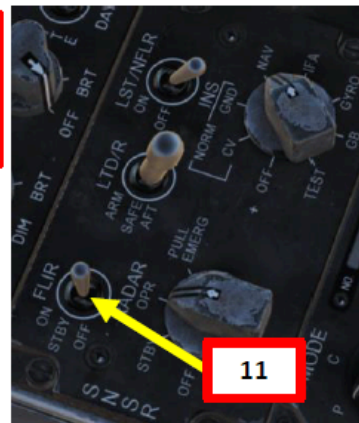
STEP function appears here if more than one station is selected



No coordinates since no target is designated yet

2.7 – GPS-Guided Ordnance (JDAM/JSOW) TARGETING POD + TOO

11. Power up the targeting pod by setting FLIR Sensor Switch to STBY.
12. From the TAC page on either DDI or the AMPCD, press the OSB (Option Select Button) next to “FLIR” (Forward-Looking Infrared) to select the Targeting Pod feed page.
13. Monitor the warm-up process. Targeting pod warm-up process will take about 2 minutes.
14. When targeting pod is ready to be used, the pod status will switch from RDY – NOT TIMED OUT to STBY.
15. Set FLIR Sensor Switch to ON. This will un-stow the camera. Confirm that Targeting Pod mode switches from STBY to OPR (Operate).
16. Press A/G Master Mode.
17. Press the Sensor Control Switch in the direction of the selected DDI (Right for the Right DDI as an example). The Select Focus Diamond indicates what display is selected.
18. Using the TDC (Throttle Designator Controller) Aft/Fwd/Left/Right controls, slew the targeting pod reticle over target 1. The targeting pod is boresighted by default to a forward, 5 deg down view.
19. Use appropriate zoom level, field of view (NARROW/WIDE) and camera mode (CCD/TV or FLIR) to identify the target.
20. Press the Sensor Control Switch Towards Selected Display (Right if our right DDI is selected) to toggle between Point Track (PTRK, tracks a moving object like a high-contrast vehicle) and Area Track (ATRK, used for a static target)/

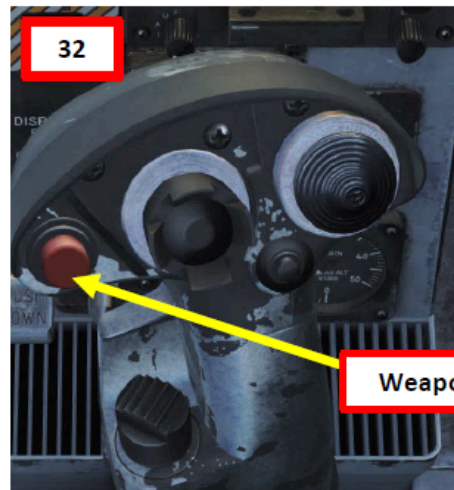


Sensor Control Switch
AFT/FWD/LEFT/RIGHT



2.7 – GPS-Guided Ordnance (JDAM/JSOW) TARGETING POD + TOO

24. Once your JDAM selected has its target coordinates and are in TOO mode, we can now start the attack run.
25. Master Arm switch – ARM (UP)
26. Verify that Master Mode is in A/G
27. On the SMS (Stores Management System) page, verify that J-82 is selected and RDY (Ready)
28. Set HSI on the lower AMPCD (I suggest you remove the moving map), the targeting pod feed on the right DDI, and the JDAM Display page on the left DDI (from SMS page, press the JDAM DSPLY OSB, then select MSN (Mission) page)
29. Verify that Manual Release TOO Release Mode is selected and that the desired station and TOO is selected.
30. Steer aircraft to the target (indicated by a diamond on the HUD)
31. When you are within the acceptable release zone (between the minimum and maximum release limits identified on the HSI), the HUD will switch from displaying “TMR” (Time to reach acceptable release zone) to “IN RNG” (In Range). You may now release your weapons.
32. Hold the Weapon Release Button (« RALT+SPACE ») until your four bombs are dropped.



Weapon Release Button

