

## Aerosoft F-14A/B

# Volume 3

## Cockpit & Controls

Version 12 January 2014

## RECORD OF REVISIONS

[illegible]

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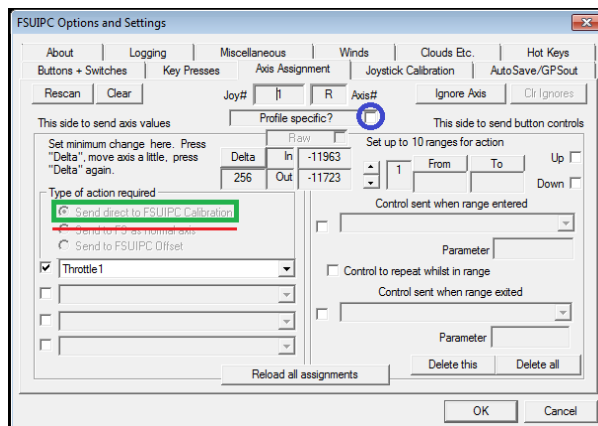
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## CONTROL AXIS INPUT

Hardware can be used to give input to Flaps, Emergency Wings Sweep, both Throttles, Primary Controls, and Secondary (Trim) Controls. These can be assigned either using the default FSX control input or with the payable version of [FSUIPC](#). When using FSUIPC, it's important to note that control input will only be recognized if it is assigned as a FSUIPC calibrated axis.

- **FSUIPC Calibrated Input** - Use this for all control inputs.
- **Profile Specific (Optional)** - Check this box if you only want this axis assignment to be applied the Aerosoft F-14.

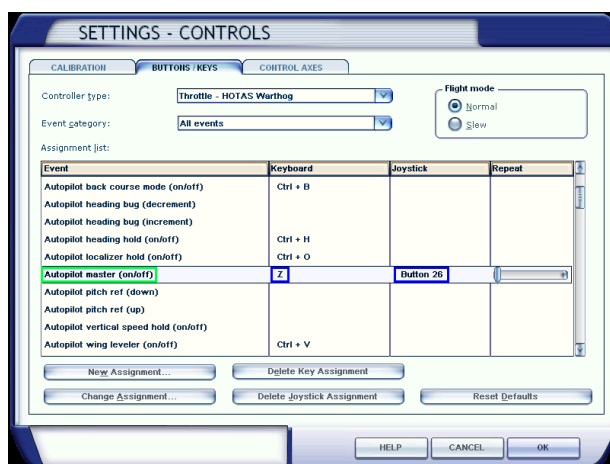


## F-14 SPECIFIC SYSTEM INPUTS USING DEFAULT EVENTS

Many of the complex systems have been integrated with the default simulation events. Inputs can be given either through the FSX controls menu or through aircraft specific input in FSUIPC with examples shown below.

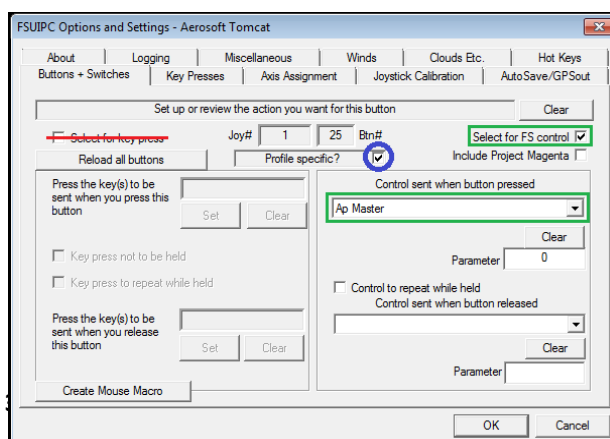
### FSX Event Input

- **Simulation Event** - This is what the F-14's gauge reads for custom systems input.
- **Sim Input (Selectable)** - User input that triggers the Sim Events; any keyboard or joystick button can be assigned.



### FSUIPC Event Input

- **Select for FS Control / Control Sent** - This is what the F-14's gauge reads for custom systems input.
- **Profile Specific (Optional)** - Check this box if you only want this sim event assignment to be applied the Aerosoft F-14.



## F-14 SPECIFIC INPUT LIST

Many of the complex systems have been integrated the default control inputs. Inputs can be given either through the FSX controls menu or through aircraft specific input in FSUIPC with examples shown below. At the end of this manual an advanced control input section which shows how to assign user input to systems which are not assigned to default FSX sim events.

System shortcuts are shown below with the corresponding simulation event and the default key press assigned the event. **It's critical to note that it is the key event, i.e. 'Autopilot Master', and not the specific keypress [z] interacts with the Tomcat's systems.** This means any key press or joystick button assigned to an *FSX Key Event* will be associated with the corresponding F-14 system input.

Aerosoft F-14 System .....	FSX Key Event	[Default Keypress]
Nose Strut (toggle).....	Water Rudder Toggle	[Shift+W]
Nosewheel Steering.....	Tailwheel Lock	[Shift+G]
Maneuver Flaps (toggle).....	Floats (extend)	[unassigned]
Direct Lift Control (toggle) .....	Floats (retract)	[unassigned]
Spoiler BK + AntiSkid (toggle) .....	Brakes anti-skid(on/off)	[unassigned]
Foot Steps & Ladders.....	Wings Fold Toggle	[unassigned]
Autopilot Master (toggle) .....	Autopilot Master	[z]
Auto-Throttle (toggle).....	Autothrottle (Arm)	[Shift+R]
Altitude Hold (Arm) .....	Alt Hold Toggle	[Ctrl+Z]
Altitude Set .....	Tailwheel Lock	[Shift+G]
Heading Hold (Arm).....	Heading Hold Toggle	[Ctrl+H]
Vector Mode (Arm).....	NAV1 Hold Toggle	[Ctrl+N]
Vector Mode (Engage/Disengaged).....	Tailwheel Lock	[Shift+G]
ACLS (Arm).....	Approach Hold Toggle	[Ctrl+A]
ACLS (Engage/Disengaged).....	Tailwheel Lock	[Shift+G]
AP EMERG DISC .....	Jetway Toggle	[Ctrl+J]
Throttle Inc (MIL).....	Throttle Increase Full	[F4]
⇒ Works at less than MIL Thrust		
Throttle Inc (Single Stage AB) .....	Throttle Increase	[F3]
⇒ Works at MIL Thrust and greater		
Throttle Inc (Full AB).....	Throttle Increase Full	[F4]
⇒ Works at MIL Thrust and greater		
Throttle Dec (Single Stage AB).....	Throttle Decrease	[F2]
⇒ Works at MIL Thrust and greater		
Throttle Dec (MIL).....	Throttle Cut	[F1]
⇒ Works at MIL Thrust and greater		
Throttle Dec (IDLE).....	Throttle Cut	[F1]
⇒ Works at less than MIL Thrust		

### Sweep Input Override (Aerosoft F-14 System)

Will fix sweep mode and position to the settings below regardless of what is configured in the VC/2D panel

Pilot Controlled Sweep Modes .....	Concorde Nose Visor (0)
Bomb Mode .....	Concorde Nose Visor (1)
Man Mode (68°).....	Concorde Nose Visor (2)
Emerg Mode (68°).....	Concorde Nose Visor (3)

### Concorde Nose Visor (FSX Key Event Interaction)

Concorde Nose/Visor (retract).....	Concorde Nose Set to 0	[unassigned]
Concorde Nose/Visor (decrease angle) .....	Concorde Nose Visor -1	[unassigned]
Concorde Nose/Visor (increase angle).....	Concorde Nose Visor +1	[unassigned]
Concorde Nose/Visor (extend) .....	Concorde Nose Set to 3	[unassigned]

## PILOT - WINDSCREEN & ACM PANEL



1. Heads-Up Display (HUD)
2. Port Compressor Warning
3. Starboard Compressor Warning
4. Approach Indexer
  - ⇒ Flashes if hook not down or bypassed
5. Angle Of Attack Indicator
6. Port Windscreen Lights
  - ⇒ Wheels, Brakes (CAUTION)
  - ⇒ NWS (ENGAGED)
  - ⇒ ACLS/AP, AT (EMERG DISENGAGE)
7. ECM Warning Lights
8. Wing Sweep Indicator
9. Left FUEL SHUT OFF handle
10. Right FUEL SHUT OFF handle
11. ACM Jettison
12. SEAM Lock (AIM-9 Lock)/Hot Trigger
13. Gun Rate, SW Cool, and MSL Prep Indicators
14. MASTER ARM switch
15. MODE STP (Missile Mode Selected)
16. Master Caution Light & Reset Button
  - ⇒ Flashes when any CAUTION light on the pilot CAUTION ADVISORY panel illuminates
17. Turn-and-Slip Indicator
18. Weapon Status Indicators
19. Standby Compass
20. HUD Camera

## PILOT - CENTER PANEL



- |  |                                   |
|--|-----------------------------------|
| 1. Vertical Speed Indicator                  | 10. UHF/VHF Indicator             |
| 2. Airspeed-Mach Indicator                   | 11. Takeoff Checklist             |
| 3. Radar Altimeter                           | 12. L FIRE warning light          |
| 4. Servo-pneumatic Altimeter                 | 13. R FIRE warning light          |
| 5. Landing Checklist                         | 14. Brightness and Contrast knobs |
| 6. Vertical Display Indicator (VDI)          | 15. VDI and HUD Trim              |
| 7. Standby Attitude Indicator                | 16. CANOPY JETTISON handle        |
| 8. Accelerometer                             | 17. ACM panel                     |
| 9. Bearing Distance Heading Indicator (BDHI) |                                   |



## PILOT - CENTER PANEL (LEFT AND RIGHT KNEE PANEL)



- |  |                                       |
|--|---------------------------------------|
| 1. Horizontal Situation Display (HSD)        | 9. Fuel Quantity Indicator            |
| 2. Left/Right Nozzle Position Indicators     | 10. BINGO Fuel Selector               |
| 3. Left/Right Oil Pressure Indicators        | 11. Oxygen Quantity Indicator         |
| 4. Hydraulic Pressure Indicator              | 12. Clock                             |
| 5. EMER FLT HYD indicators                   | 13. Heading Control                   |
| 6. RPM Indicator                             | 14. HSD Brightness                    |
| 7. TIT Indicator (Turbine Inlet Temperature) | 15. Course Control                    |
| 8. Fuel Flow Indicator                       | 16. BIT Indicator (hide flight stick) |

## PILOT - LEFT VERTICAL CONSOLE



- |                                       |                                 |
|---------------------------------------|---------------------------------|
| 1. EMERG STORES JETT pushbutton       | 8. QTY SEL switch               |
| 2. Wheels/Flaps Position Indicator    | 9. FEED switch (FWD/NORM/AFT)   |
| 3. Parking Brake Handle               | 10. WING/EXT TRANS switch       |
| 4. NOSE STRUT switch                  | 11. Refuel Probe Switch         |
| 5. LDG GEAR handle                    | 12. ANTI SKID SPOILER BK switch |
| 6. Launch Bar Switch                  | 13. DUMP switch                 |
| 7. Control Surface Position Indicator |                                 |



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## PILOT - RIGHT VERTICAL CONSOLE



1. Arresting HOOK handle
2. Gun Rounds Counter
3. Pilot Display Control Panel (PDCP)
4. MODE pushbutton
5. POWER switches (VDI, HUD, HSD/ECMD)
6. STEER CMD pushbutton
7. PITCH LAD control
8. ELEV LEAD knob

## PILOT - LEFT SIDE CONSOLE



1. INLET RAMPS switches
2. ENG CRANK switch
3. THROTTLE MODE switch
4. AIR START switch
5. STAB AUG switches
6. Autopilot
7. ICS Control Panel
8. Volume/TACAN CMD Panel
9. Tone Volume Control Panel
10. Emergency WING SWEEP handle
  - ⇒ Oversweep (detent)
  - ⇒ 20°-68° (continuous)
11. Wing Sweep Handle Guard
12. Right Throttle
  - ⇒ CUT-OFF (detent)
  - ⇒ IDLE, MIL, AUG (continuous)
13. Left Throttle
  - ⇒ CUT-OFF (detent)
  - ⇒ IDLE, MIL, AUG (continuous)
14. FLAP handle
15. UHF 1 Control Panel (COM radio)
16. TACAN Controls (NAV radio)
17. OXYGEN switch
18. VENT AIRFLOW thumbwheel

## PILOT – RIGHT SIDE CONSOLE



- |                             |  |
|-----------------------------|--|
| 1. Canopy BOOST handle      | 12. HUD-VIDEO                                |
| 2. Canopy CLOSE handle      | 13. VIDEO CONTROL switch                     |
| 3. Canopy HOLD handle       | 14. Spoilers Failure Override Panel          |
| 4. Canopy OPEN handle       | 15. CAUTION ADVISORY panel                   |
| 5. Canopy AUX OPEN handle   | 16. EMERG generator switch                   |
| 6. Compass Controller Panel | 17. MASTER GEN control panel                 |
| 7. ARA-63 Decoder Panel     | 18. AIR SOURCE selector pushbuttons          |
| 8. HOOK BYPASS switch       | 19. Air Conditioning Control Panel           |
| 9. MASTER LIGHT Panel       | 20. ENG/PROBE ANTI-ICE switch                |
| 10. EMERG FLT HYD switch    | 21. WINDSHIELD rain removal and repel switch |
| 11. MASTER TEST panel       | 22. HYD TRANSFER PUMP switch                 |

## RIO – CENTER PANEL



1. DETAIL DATA DISPLAY panel
2. Detail Data Display (DDD)
3. Radar Range Readout
4. RADAR RANGE pushbuttons
5. RADAR MODE pushbuttons
6. Radar Mode Indicator
7. Standby Attitude Indicator
8. UHF Remote Indicator
9. Airspeed Mach Indicator
10. Servo-pneumatic Altimeter
11. Threat Advisory Lights
12. Clock
13. Fuel Quantity Totalizer
14. Bearing Distance Heading Indicator (BDHI)
15. CANOPY JETTISON handle



## RIO – CENTER CONSOLE



- |  |  |
|--|--|
| 1. Tactical Information Display (TID)  | 9. DEST selector                       |
| 2. Navigation Control and Data Readout | 10. CLSN pushbutton                    |
| 3. INS status indicator                | 11. Tactical Information Control Panel |
| 4. TID contrast                        | 12. Hand Control Unit                  |
| 5. NAV MODE selector                   | 13. WCS switch (XMT/STBY/OFF)          |
| 6. TRACK HOLD pushbutton               | 14. IR/TV power switch                 |
| 7. TID brightness knob                 | 15. CAUTION ADVISORY panel             |
| 8. STEERING indicator                  |  |

## RIO – LEFT VERTICAL CONSOLE



- |                           |                         |
|---------------------------|-------------------------|
| 1. ARMAMENT control panel | 8. SEL JETT switch      |
| 2. WPN type thumbwheel    | 9. TANK JETT switch     |
| 3. DLVY MODE switch       | 10. JETT OPTIONS switch |
| 4. ATTK MODE knob         | 11. STA SEL switches    |
| 5. ELECT FUZE knob        | 12. MSL OPTIONS switch  |
| 6. A/G GUN switch         | 13. MSL SPD GATE KNOB   |
| 7. MECH FUZE switch       | 14. LAUNCH pushbutton   |



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## RIO – LEFT SIDE CONSOLE



- |                                     |                                   |
|-------------------------------------|-----------------------------------|
| 1. EJECT CMD lever                  | 11. FOV switch (WIDE/NAR)         |
| 2. Sensor Control Panel (SCP)       | 12. TACAN control panel           |
| 3. STAB switch                      | 13. ICS control panel             |
| 4. AZ CTR control                   | 14. KY-28 control panel           |
| 5. EL CTR control                   | 15. Computer Address Panel (CAP)  |
| 6. VSL switch (HI/LO/OFF)           | 16. ARC-182 control panel         |
| 7. AZ SCAN switch                   | 17. RIO Communication/TACAN panel |
| 8. EL BARS switch                   | 18. OXYGEN switch                 |
| 9. TCS TRIM                         | 19. VENT AIRFLOW thumbwheel       |
| 10. ACQ switch (AUTO/MAN/AUTO SRCH) |                                   |

## RIO - RIGHT SIDE CONSOLE



- |  |  |
|--|--|
| 1. Electronic Countermeasures Display (ECMD) | 10. Digital Data Indicator (DDI)       |
| 2. ECM Display Control Panel                 | 11. Data Link Control Panel            |
| 3. ECM Control Panel                         | 12. Data Link Reply and Control Panel  |
| 4. DECM Control Panel                        | 13. AA1 Control Panel                  |
| 5. AN/ALE-39 Control                         | 14. Interior Light Control Panel       |
| 6. CHAFF/FLARE/JAMR counters                 | 15. IFF Transponder Control Panel      |
| 7. SALVO FLARE switch                        | 16. IFF Antenna Control and Test Panel |
| 8. AN/ALE-39 Programmer                      | 17. Radar Beacon Control Panel         |
| 9. Mid Compression Bypass Test Panel         |  |

## WING SWEEP INTERFACE

There are four of wing sweep operation: Auto, Bomb, Manual, and Emergency. The operating limits and characteristics are described in greater detail in Vol.4, while this section focuses on interaction. There are two input sources for the wing sweep modes, the Wing Sweep Rocker and the Emergency Sweep lever.

**Wing Sweep Rocker** is the normal mode of sweep interaction. This includes Auto, Bomb, and Manual. The rocker will stay in place if either Auto (up) or Bomb (down) are selected. AFT (back) and FWD (fwd) initiate Manual mode, and are spring loaded to return to center. E.g. the longer you hold "AFT" or "FWD", the further the wings will sweep. Note that you can never sweep the wings FWD of the sweep angle determined by AUTO mode.

The Wing sweep rocker can be interacted with via VC, but it's recommended that users either make use of the 2D panel at [SHIFT+3] or assign button presses in FSUIPC.



**Emergency Sweep Lever** is used primarily in ground operations, but also in the in-flight during a power loss (i.e. an emergency). There are two mouse interaction areas; the cover and the lever. In general, mouse clicks offer step-wise interactions while mouse wheel inputs offer single interaction shortcuts.

**Cover:** Left-Right mouse clicks will open and close the cover, which effectively enter and exit emergency sweep mode. Note that you cannot exit emergency sweep mode unless the wings are swept full forward. Scrolling the mouse wheel forward will automatically sweep the wings full FWD and exit emergency mode. Scrolling the mouse wheel backwards will enter emergency mode and sweep the wings full AFT.



**Lever:** Left mouse click + Hold is used to adjust the position of the sweep lever. Note that this can also be accomplished with a hardware axis assigned to Propeller Pitch. Right mouse click will enter and exit the over-sweep region when the lever is full AFT. Scrolling the mouse wheel forward will automatically sweep the wings full FWD and exit emergency mode.

## WINDSHIELD WARNING INDICATORS



L STALL ..... Port Compressor Stall or Fire

WHEELS..... Gear is UP and Flaps are down or N1 is less than 85%

BRAKES..... Parking Brake ON

ACLS/AP ..... Either ACLS or AP was disengaged by method other than switch  
(e.g. disengaged by the disconnect paddle or stick movement)

NWS ..... Nose Wheel Steering is engaged

AUTO THROT..... Auto Throttle was disengaged by method other than switch

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R STALL ..... Starboard Compressor Stall or Fire

BLANK - [INOP]..... ECM threat information



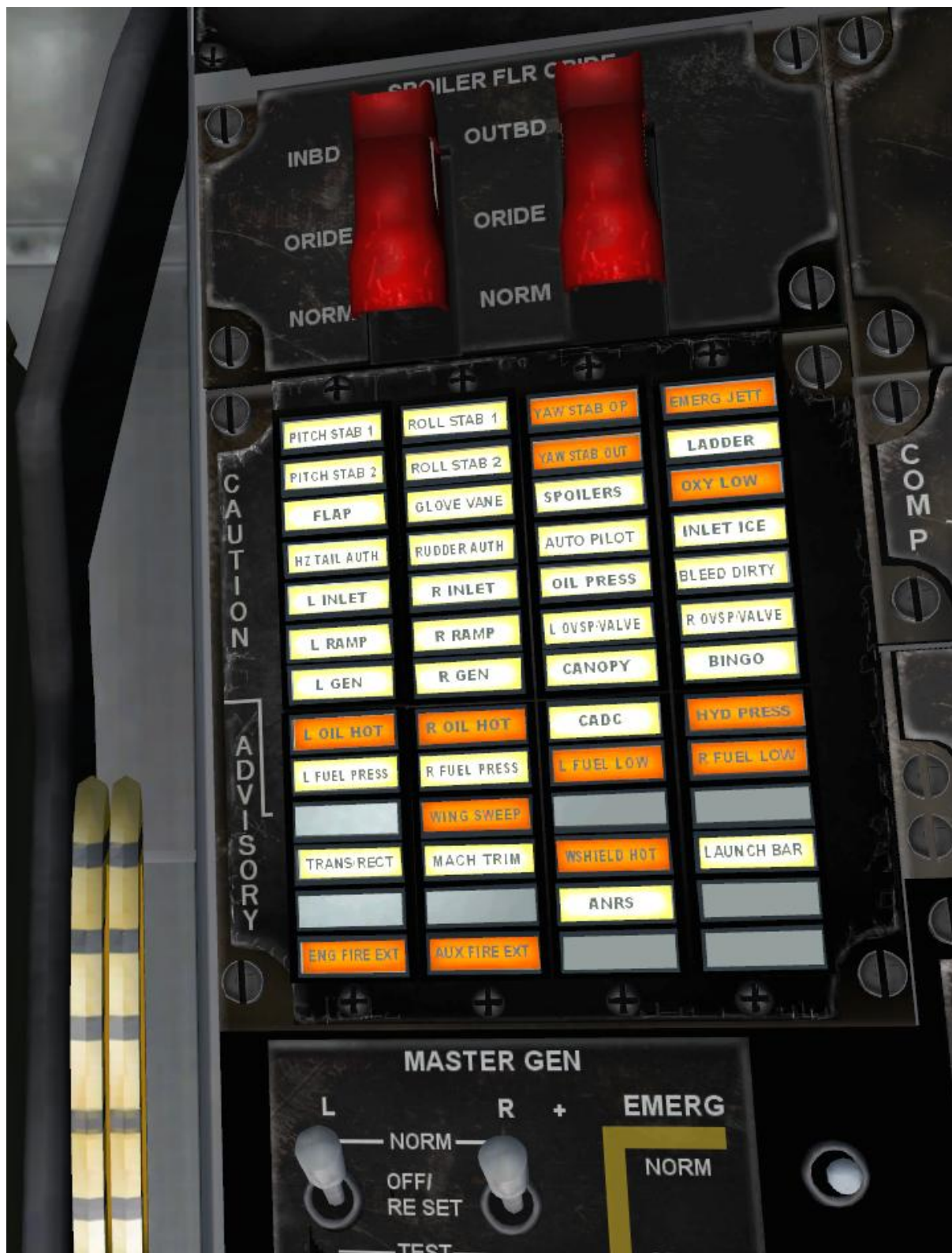
## VDI WARNING PANEL



ADJ A/C [INOP].....	Aircraft is in or close to traffic own pattern
LANDING CHK .....	*Carrier has a channel available for an ACL landing
ACL Ready .....	*Aircraft has been acquired by carrier and in glideslope
A/P CPLR .....	*Carrier is ready to control aircraft via ACLS
CMD Control .....	*Aircraft is being flown via carrier data link
10 Seconds.....	10 seconds remain until landing (any mode)
TILT [INOP] .....	Problem with ACLS datalink
VOICE .....	*Carrier is not available for ACLS landing, but okay for voice
A/P REF .....	Either VEC or ACLS mode is selected but not engaged
WAVEOFF.....	*Aircraft in unsafe condition for landing
WING SWEEP .....	Indicates failure of CADC commanded wingsweep channels
REDUCE SPEED.....	Aircraft has exceeded 225KIAS with flaps down or M2.4
ALT LOW .....	No operational function (from NATOPS).

\*Because of carrier limitations within FSX, aircraft must be connected to (any) valid carrier TACAN channel for this to work.

## MASTER CAUTION PANEL





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Pitch Stab 1/2 .....	Inoperative Pitch Channel
Roll Stab 1/2 .....	Inoperative Roll Channel
YAW STAB OP .....	One yaw channel Operative
YAW STAB Out .....	Yaw SAS Failure
EMERG JETT .....	EMERG STORES JETT was pressed
LADDER .....	Ladder is not Stowed
FLAP .....	Disagreement between main and AUX flaps position
HZ TAIL AUTH [INOP] .....	Failure of authority actuator
GLOVE VANE .....	Glove vanes fail to follow commands
RUDDER AUTH .....	[INOP] Failure of rudder actuator
SPOILERS .....	Spoiler Failure
AUTO PILOT .....	Failure of one or more AP modes
OXY LOW .....	Oxygen qty is less than 2 liters
INLET ICE .....	Indicates accumulated ICE with ANTI-ICE ON
L/R INLET .....	(1) AICS failure or Inlet in improper configuration <u>or</u> (2) Indicated Mach is greater than 0.9 (pilot awareness)
L/R RAMPS .....	Indicates ramps are not in stow during critical flight conditions
OIL PRESS .....	Left or Right oil press is less than 25psi
BLEED DUCT [INOP] .....	Temperatures greater than 575°F between engine and primary heat exchanger
L/R OVSP .....	Engine N1 has exceeding maximum
L/R Gen .....	Generators are not producing electricity
Canopy .....	Canopy is not down and locked
BINGO .....	Fuel Totalized is less than preset value
L/R OIL HOT .....	Oil temp too high
CADC - [INOP] .....	CADC computer failure
HYD PRESS .....	Hydraulic pressure in either the Flight or Combined systems is below 2,100psi
L/R FUEL PRESS .....	Insufficient pressure between boost pump and turbine
L/R FUEL .....	Approximately 1,000lbs remain in a feed group
WING SWEEP .....	Failure of a CADC channel
TRANS/RECT .....	One operable transformer is power entire dc load
MACH TRIM .....	Failure of MACH Trim System
WSHLD HOT [INOP] .....	Center windshield is overheated
LAUNCH BAR .....	Aircraft Kneeled, Launch Bar down, Throttles at less than MIL
ENG FIRE .....	Primary Fire extinguishing agent is below nominal
AUX FIRE .....	Auxiliary Fire extinguishing agent is below nominal

## MASTER TEST SWITCH



The Master Test switch is used to test critical aircraft system. Each test takes approximately 5 seconds to run and will end with a pass "GO" or a fail "NO GO". After each test, the system should be reset through using the MASTER RESET. The master test switch can only be operated by mouse.

- 'Right-Click' ..... Lifts knob and enables rotation
- 'Left-Click' ..... Depresses the knob and energizes test circuits
- 'Wheel' ..... Rotates knob to desired test

## MAST TEST FUNCTIONS

### BEFORE ENGINE START

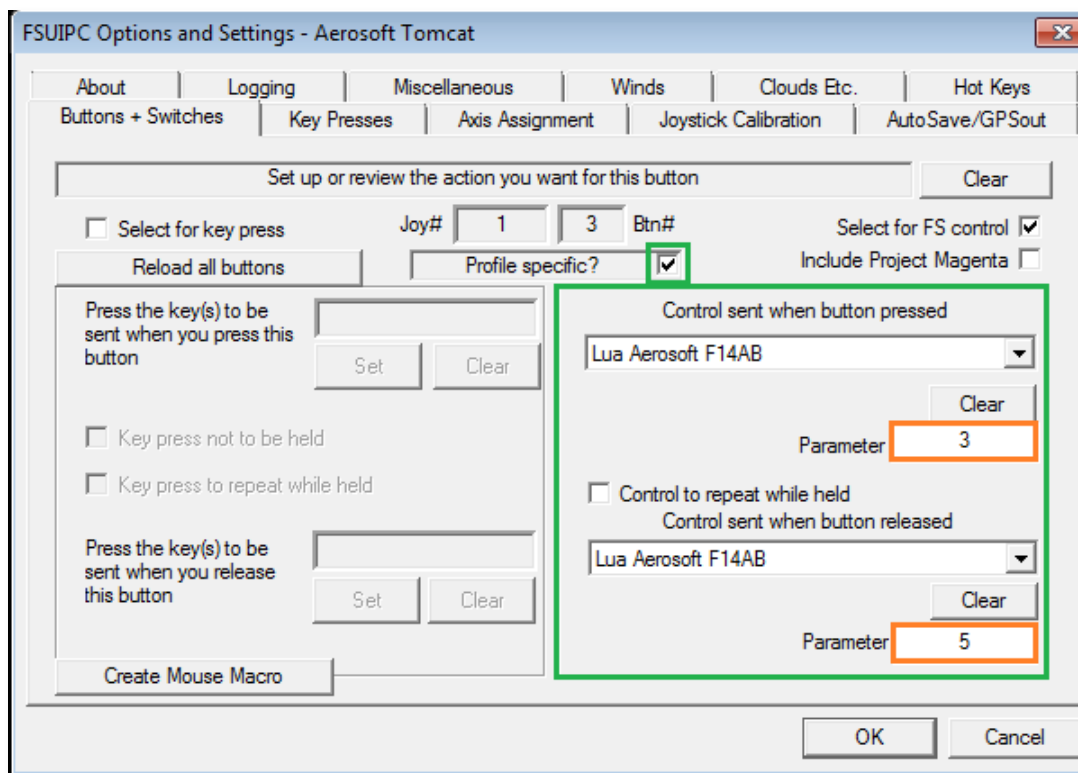
- LTS..... Checks all warning light, both GO and NO GO light illuminate
- FIRE DET/EXT ..... Checks the fire extinguishing system
- INST..... Tests Primary Engine Instruments

### AFTER ENGINE START

- OBC..... Internal test of the HSD and TID
- EMER GEN..... Tests automatic transfer of primary and emergency generators
- MACH LEV ..... Tests the MACH LEV stall prevention system  
Engines will automatically spool to 83% RPM
- WG SWP..... Internal test of the Wing Sweep circuitry, wings do not move  
Wings must be in OVERSWEEP mode
- FLT GR DN ..... Ground check of AUTOTHROTTLE interlocks  
Set engines to 78-96% RPM and THROTTLE MODE to AUTO
- FLT GR UP ..... Checks pressurization of external fuel tanks  
External fuel tanks must be installed
- D/L RAD..... Internal test of the data link converter
- STICK SW..... Checks spoiler activation circuitry

## ADVANCED CONTROLS SETUP (REGISTERED VERSION OF FSUIPC)

Owners of the registered version of FSUIPC can take advantage of the lua scripts which come packaged with the Tomcat, and can interact with all of the visual systems. The example below how functions are assigned; All are assigned through the Control 'Lua Aerosoft F14AB', and only the parameter number changes with function.



### WING SWEEP ROCKER (AUTO)

- Parameter (Press): 1
- Parameter (Release): *none*

### WING SWEEP ROCKER (BOMB)

- Parameter (Press): 2
- Parameter (Release): *none*

### WING SWEEP ROCKER (FWD)

- Parameter (Press): 3
- Parameter (Release): 5

### WING SWEEP ROCKER (AFT)

- Parameter (Press): 4
- Parameter (Release): 5

### EMERGENCY SWEEP (TOGGLE)

- Parameter (Press): 6
- Parameter (Release): *none*

### OVERSWEEP (TOGGLE)

- Parameter (Press): 7
- Parameter (Release): *none*

### OVERSWEEP TO AUTO MODE (SHORTCUT)

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- Parameter (Press): 8
- Parameter (Release): *none*

---

#### PORT THROTTLE (OFF)

- Parameter (Press): 10
- Parameter (Release): *none*

---

#### PORT THROTTLE (IDLE)

- Parameter (Press): 11
- Parameter (Release): *none*

---

#### PORT THROTTLE (IDLE/OFF)

⇒ For IDLE/OFF detent seen in Thrustmaster Warthog HOTAS

- Parameter (Press): 10
- Parameter (Release): 11

---

#### STARBOARD THROTTLE (OFF)

- Parameter (Press): 12
- Parameter (Release): *none*

---

#### STARBOARD THROTTLE (IDLE)

- Parameter (Press): 13
- Parameter (Release): *none*

---

#### STARBOARD THROTTLE (IDLE/OFF)

⇒ For IDLE/OFF detent seen in Thrustmaster Warthog HOTAS

- Parameter (Press): 12
- Parameter (Release): 13

---

#### PORT THROTTLE TOGGLE (IDLE/OFF)

- Parameter (Press): 14
- Parameter (Release): *none*

---

#### STARBOARD THROTTLE TOGGLE (IDLE/OFF)

- Parameter (Press): 15
- Parameter (Release): *none*

---

#### ENGINE START SWITCH (PORT)

- Parameter (Press): 20
- Parameter (Release): *none*

---

#### ENGINE START SWITCH (STARBOARD)

- Parameter (Press): 21
- Parameter (Release): *none*

---

#### ENGINE START SWITCH (CENTER)

- Parameter (Press): 22
- Parameter (Release): *none*

---

#### AIRSTART SWITCH (ON)

- Parameter (Press): 23
- Parameter (Release): *none*

---

#### AIRSTART SWITCH (NORM)

- Parameter (Press): 24
- Parameter (Release): *none*

---

#### AIRSTART SWITCH (TOGGLE)

- Parameter (Press): 25
- Parameter (Release): *none*

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#### PORT INLET RAMPS (AUTO)

- Parameter (Press): 30
- Parameter (Release): *none*

---

#### PORT INLET RAMPS (STOW)

- Parameter (Press): 31
- Parameter (Release): *none*

---

#### STARBOARD INLET RAMPS (AUTO)

- Parameter (Press): 32
- Parameter (Release): *none*

---

#### STARBOARD INLET RAMPS (STOW)

- Parameter (Press): 33
- Parameter (Release): *none*

---

#### PORT INLET RAMPS (TOGGLE)

- Parameter (Press): 34
- Parameter (Release): *none*

---

#### STARBOARD INLET RAMPS (TOGGLE)

- Parameter (Press): 35
- Parameter (Release): *none*

---

#### PITCH SAS (ON)

- Parameter (Press): 40
- Parameter (Release): *none*

---

#### PITCH SAS (OFF)

- Parameter (Press): 41
- Parameter (Release): *none*

---

#### ROLL SAS (ON)

- Parameter (Press): 42
- Parameter (Release): *none*

---

#### ROLL SAS (OFF)

- Parameter (Press): 43
- Parameter (Release): *none*

---

#### YAW SAS (ON)

- Parameter (Press): 44
- Parameter (Release): *none*

---

#### YAW SAS (OFF)

- Parameter (Press): 45
- Parameter (Release): *none*

---

#### PITCH SAS (TOGGLE)

- Parameter (Press): 46
- Parameter (Release): *none*

---

#### ROLL SAS (TOGGLE)

- Parameter (Press): 47
- Parameter (Release): *none*

---

#### YAW SAS (TOGGLE)

- Parameter (Press): 48
- Parameter (Release): *none*

---

#### WEAPON SELECT (INCREASE)

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- Parameter (Press): 50
- Parameter (Release): *none*

---

#### WEAPON SELECT (DECREASE)

- Parameter (Press): 51
- Parameter (Release): *none*

---

#### SALVO FLARE (ON)

- Parameter (Press): 52
- Parameter (Release): *none*

---

#### SALVO FLARE (OFF)

- Parameter (Press): 53
- Parameter (Release): *none*

---

#### SALVO FLARE (TOGGLE)

- Parameter (Press): 54
- Parameter (Release): *none*

---

#### ANTISKID (BOTH)

- Parameter (Press): 60
- Parameter (Release): *none*

---

#### ANTISKID (OFF)

- Parameter (Press): 61
- Parameter (Release): *none*

---

#### ANTISKID (SPOILER BK)

- Parameter (Press): 62
- Parameter (Release): *none*

---

#### ANTISKID (BOTH/OFF)

⇒ For three position switches with inactive center pole

- Parameter (Press): 60
- Parameter (Release): 61

---

#### ANTISKID (SPOILERBK/OFF)

⇒ For three position switches with inactive center pole

- Parameter (Press): 62
- Parameter (Release): 61

---

#### WINGS/EXT TRANS (ORIDE)

- Parameter (Press): 70
- Parameter (Release): *none*

---

#### WINGS/EXT TRANS (AUTO)

- Parameter (Press): 71
- Parameter (Release): *none*

---

#### WINGS/EXT TRANS (OFF)

- Parameter (Press): 72
- Parameter (Release): *none*

---

#### QEL SEL (WINGS)

- Parameter (Press): 73
- Parameter (Release): *none*

---

#### QEL SEL (FEED)

- Parameter (Press): 74
- Parameter (Release): *none*



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#### QEL SEL (EXT)

- Parameter (Press): 75
- Parameter (Release): *none*

---

#### MASTER CAUTION (RESET)

- Parameter (Press): 80
- Parameter (Release): *none*

---

#### MASTER ARM (ON)

- Parameter (Press): 81
- Parameter (Release): *none*

---

#### MASTER ARM (OFF)

- Parameter (Press): 82
- Parameter (Release): *none*

---

#### MASTER ARM (TOGGLE)

- Parameter (Press): 83
- Parameter (Release): *none*

---

#### ARM JETTISON (ON)

- Parameter (Press): 84
- Parameter (Release): *none*

---

#### ARM JETTISON (OFF)

- Parameter (Press): 85
- Parameter (Release): *none*

---

#### ARM JETTISON (TOGGLE)

- Parameter (Press): 86
- Parameter (Release): *none*

---

#### EMERG STORE JETT (PUSH)

- Parameter (Press): 87
- Parameter (Release): *none*

---

#### GUN RATE (TOGGLE)

- Parameter (Press): 88
- Parameter (Release): *none*

---

#### HOOK BYPASS (ON)

- Parameter (Press): 90
- Parameter (Release): *none*

---

#### HOOK BYPASS (OFF)

- Parameter (Press): 91
- Parameter (Release): *none*

---

#### HOOK BYPASS (TOGGLE)

- Parameter (Press): 92
- Parameter (Release): *none*

---

#### OXYGEN (ON)

- Parameter (Press): 93
- Parameter (Release): *none*

---

#### OXYGEN (OFF)

- Parameter (Press): 94
- Parameter (Release): *none*

---

#### OXYGEN (TOGGLE)

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- Parameter (Press): 95
- Parameter (Release): *none*

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#### FLIGHT DISPLAY MODE (UP)

- Parameter (Press): 100
- Parameter (Release): *none*

---

#### FLIGHT DISPLAY MODE (DOWN)

- Parameter (Press): 101
- Parameter (Release): *none*

---

#### FLIGHT DISPLAY MODE (TAKE-OFF)

- Parameter (Press): 102
- Parameter (Release): *none*

---

#### FLIGHT DISPLAY MODE (CRUISE)

- Parameter (Press): 103
- Parameter (Release): *none*

---

#### FLIGHT DISPLAY MODE (AIR/AIR)

- Parameter (Press): 104
- Parameter (Release): *none*

---

#### FLIGHT DISPLAY MODE (AIR/GROUND)

- Parameter (Press): 105
- Parameter (Release): *none*

---

#### FLIGHT DISPLAY MODE (LANDING)

- Parameter (Press): 106
- Parameter (Release): *none*

---

#### HUD DECLUTTER (ON)

- Parameter (Press): 110
- Parameter (Release): *none*

---

#### HUD DECLUTTER (OFF)

- Parameter (Press): 111
- Parameter (Release): *none*

---

#### HUD AWL/ILS (ON)

- Parameter (Press): 112
- Parameter (Release): *none*

---

#### HUD AWL/ILS (OFF)

- Parameter (Press): 113
- Parameter (Release): *none*

---

#### VDI TV MODE (ON)

- Parameter (Press): 114
- Parameter (Release): *none*

---

#### VDI TV MODE (OFF)

- Parameter (Press): 115
- Parameter (Release): *none*

---

#### VDI AWL/ILS (ON)

- Parameter (Press): 116
- Parameter (Release): *none*

---

#### VDI AWL/ILS (OFF)

- Parameter (Press): 117

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- Parameter (Release): *none*

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#### HSD MODE (NAV)

- Parameter (Press): 118
- Parameter (Release): *none*

---

#### HSD MODE (TID)

- Parameter (Press): 119
- Parameter (Release): *none*

---

#### HSD MODE (ECM)

- Parameter (Press): 120
- Parameter (Release): *none*

---

#### VDI POWER (ON)

- Parameter (Press): 121
- Parameter (Release): *none*

---

#### VDI POWER (OFF)

- Parameter (Press): 122
- Parameter (Release): *none*

---

#### HUD POWER (ON)

- Parameter (Press): 123
- Parameter (Release): *none*

---

#### HUD POWER (OFF)

- Parameter (Press): 124
- Parameter (Release): *none*

---

#### HSD POWER (ON)

- Parameter (Press): 125
- Parameter (Release): *none*

---

#### HSD POWER (OFF)

- Parameter (Press): 126
- Parameter (Release): *none*

---

#### ARA-63 POWER (ON)

- Parameter (Press): 127
- Parameter (Release): *none*

---

#### ARA-63 POWER (OFF)

- Parameter (Press): 128
- Parameter (Release): *none*

---

#### STEER CMD (LEFT)

- Parameter (Press): 130
- Parameter (Release): *none*

---

#### STEER CMD (RIGHT)

- Parameter (Press): 131
- Parameter (Release): *none*

---

#### STEER CMD (TACAN)

- Parameter (Press): 132
- Parameter (Release): *none*

---

#### STEER CMD (DEST)

- Parameter (Press): 133
- Parameter (Release): *none*

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#### STEER CMD (AWL/PCL)

- Parameter (Press): 134
- Parameter (Release): *none*

---

#### STEER CMD (VEC)

- Parameter (Press): 135
- Parameter (Release): *none*

---

#### STEER CMD (MAN)

- Parameter (Press): 136
- Parameter (Release): *none*

---

#### RADAR RANGE (INC)

- Parameter (Press): 140
- Parameter (Release): *none*

---

#### RADAR RANGE (DEC)

- Parameter (Press): 141
- Parameter (Release): *none*

---

#### WCS MODE TOGGLE (PD STT / PULSE STT)

- Parameter (Press): 142
- Parameter (Release): *none*

---

#### WCS MODE TOGGLE (PD SRCH / RWS)

- Parameter (Press): 143
- Parameter (Release): *none*

---

#### WCS MODE TOGGLE (TWS AUTO / TWS MAN / PULSE SRCH)

- Parameter (Press): 144
- Parameter (Release): *none*

---

#### WCS MODE TOGGLE (PLM / DL)

- Parameter (Press): 145
- Parameter (Release): *none*

---

#### CYCLE TARGETS (LEFT)

- Parameter (Press): 146
- Parameter (Release): *none*

---

#### CYCLE TARGETS (RIGHT)

- Parameter (Press): 147
- Parameter (Release): *none*

---

#### AZ SCAN (CLOCK)

- Parameter (Press): 150
- Parameter (Release): *none*

---

#### AZ SCAN (COUNTER-CLOCK)

- Parameter (Press): 151
- Parameter (Release): *none*

---

#### EL BARS (CLOCK)

- Parameter (Press): 152
- Parameter (Release): *none*

---

#### EL BARS (COUNTER-CLOCK)

- Parameter (Press): 153
- Parameter (Release): *none*

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#### LEFT GENERATOR (NORM)

- Parameter (Press): 160
- Parameter (Release): *none*

---

#### LEFT GENERATOR (OFF/RESET)

- Parameter (Press): 161
- Parameter (Release): *none*

---

#### LEFT GENERATOR (TEST)

- Parameter (Press): 162
- Parameter (Release): *none*

---

#### RIGHT GENERATOR (NORM)

- Parameter (Press): 163
- Parameter (Release): *none*

---

#### RIGHT GENERATOR (OFF/RESET)

- Parameter (Press): 164
- Parameter (Release): *none*

---

#### RIGHT GENERATOR (TEST)

- Parameter (Press): 165
- Parameter (Release): *none*

---

#### EMERG GENERATOR (ON)

- Parameter (Press): 166
- Parameter (Release): *none*

---

#### EMERG GENERATOR (OFF)

- Parameter (Press): 167
- Parameter (Release): *none*

---

#### AIR SOURCE (UP)

- Parameter (Press): 170
- Parameter (Release): *none*

---

#### AIR SOURCE (DOWN)

- Parameter (Press): 171
- Parameter (Release): *none*

---

#### AIR SOURCE (RAM)

- Parameter (Press): 172
- Parameter (Release): *none*

---

#### AIR SOURCE (L ENG)

- Parameter (Press): 173
- Parameter (Release): *none*

---

#### AIR SOURCE (R ENG)

- Parameter (Press): 174
- Parameter (Release): *none*

---

#### AIR SOURCE (BOTH)

- Parameter (Press): 175
- Parameter (Release): *none*

---

#### AIR SOURCE (OFF)

- Parameter (Press): 176
- Parameter (Release): *none*

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#### MASTER TEST (CLOCK)

- Parameter (Press): 180
- Parameter (Release): *none*

---

#### MASTER TEST (COUNTER-CLOCK)

- Parameter (Press): 181
- Parameter (Release): *none*

---

#### MASTER TEST (PUSH)

- Parameter (Press): 182
- Parameter (Release): *none*

---

#### EMERG FLIGHT HYD (HIGH)

- Parameter (Press): 183
- Parameter (Release): *none*

---

#### EMERG FLIGHT HYD (LOW)

- Parameter (Press): 184
- Parameter (Release): *none*

---

#### EMERG FLIGHT HYD (AUTO)

- Parameter (Press): 185
- Parameter (Release): *none*

---

#### HYD TRANS (SHUTOFF)

- Parameter (Press): 186
- Parameter (Release): *none*

---

#### HYD TRANS (OFF)

- Parameter (Press): 187
- Parameter (Release): *none*

---

#### WINDSCREEN (AIR)

- Parameter (Press): 190
- Parameter (Release): *none*

---

#### WINDSCREEN (OFF)

- Parameter (Press): 191
- Parameter (Release): *none*

---

#### PROBE ANTI-ICE (ORIDE)

- Parameter (Press): 192
- Parameter (Release): *none*

---

#### PROBE ANTI-ICE (AUTO)

- Parameter (Press): 193
- Parameter (Release): *none*

---

#### PROBE ANTI-ICE (OFF)

- Parameter (Press): 194
- Parameter (Release): *none*

---

#### ADF MODE (CLOCK)

- Parameter (Press): 200
- Parameter (Release): *none*

---

#### ADF MODE (COUNTER-CLOCK)

- Parameter (Press): 201
- Parameter (Release): *none*

---

#### TACAN MODE (CLOCK)



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- Parameter (Press): 202
- Parameter (Release): *none*

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#### TACAN MODE (COUNTER-CLOCK)

- Parameter (Press): 203

Parameter (Release): *none*

---

#### BINGO FUEL QTY (+1000)

- Parameter (Press): 210
- Parameter (Release): *none*

---

#### BINGO FUEL QTY (-1000)

- Parameter (Press): 211
- Parameter (Release): *none*

---

#### BINGO FUEL QTY (+500)

- Parameter (Press): 212
- Parameter (Release): *none*

---

#### BINGO FUEL QTY (-500)

- Parameter (Press): 213
- Parameter (Release): *none*

---

#### BINGO FUEL QTY (+200)

- Parameter (Press): 214
- Parameter (Release): *none*

---

#### BINGO FUEL QTY (-200)

- Parameter (Press): 215
- Parameter (Release): *none*

---

#### BINGO FUEL QTY (+100)

- Parameter (Press): 216
- Parameter (Release): *none*

---

#### BINGO FUEL QTY (-100)

- Parameter (Press): 217
- Parameter (Release): *none*