

# SYSTEM TEST SWITCH FUNCTIONS



Reference guide for all functions related to the System Test Switch during nominal operation!

## FIRE DET:

CAS: **L R BLEED AIR LEAK**  
**APU FIRE**  
**WING/STAB LEAK**  
**MAIN HYD PRESS**  
CWP: **L BLEED AIR LEAK**  
**WING/STAB LEAK**  
**R BLEED AIR LEAK**

- Master **WARN** tone and lights flash
- Both Engine FIRE PUSH switches illuminate
- All extinguisher switches illuminate ARMED
- APU FIRE switch will illuminate (Only with APU Master switch ON)
- **FIRE** EI's flashes in the left and right ITT displays on EICAS
- Both **FIRE** messages on RMU Engine page 1 will flash next to N1display
- If MUTE button pressed, audible tones & warning will stop followed by "Ding"
- If FIRE DET held for 15 sec, APU warning horn in the nose wheel well sounds
- If FIRE DET held for 30 sec, APU FAIL indication and APU shuts down if running
- Audible tones and warnings:  
*"Ding Ding Ding, Left Engine Fire, Ding Ding Ding, Right Engine Fire"*  
(repeats until PRESS TEST released)

## LTS:

CAS: None

CWP: All CWP annunciations light up!

- Master **CAUT** and **WARN** lights flash (No tones)
- A lights test starts of all the switch indicators
- All CWP annunciations illuminate
- All digit segments on the Cabin Pressure Display illuminate
- Progressive light test of all green indicator lights on the FGC
- Three digit display on the APU will illuminate "888" in the AMP Window
- If PRESS TEST button is released in less than 15 sec a single "Ding" will sound
- If PRESS TEST button is held more than 15 sec, audible tones & warnings will start
- PRESS TEST button can be released and audible tones & warnings will continue
- If MUTE button pressed, audible tones & warning will stop followed by "Ding"
- If Master WARN/CAUT switch is pressed, audible tones and warnings will stop
- Audible tones and warnings:  
*"Overspeed, Stall, Cabin Altitude, Configuration, blip blip blip, Gear, Left Engine Fire, Right Engine Fire, Left Reverser Unsafe, Right Reverser Unsafe, Brakes Fail, Ding!, Minimums Minimums, Ding Ding Ding, Gear, Ding, Biz Biz Biz Biz Biz, Bipbipbipbipbipbip, Ding"*

## GEAR:

CAS: **GEAR**

CWP: **GEAR**

- Master **WARN** tone and lights flash
- Three white in-transit landing gear lights illuminate
- Audible tones and warnings:  
*"Ding Ding Ding, Gear Gear Gear"*

## FLAPS:

CAS: **FLAPS FAULT**

**FLAPS FAIL**

CWP: None

- Master **CAUT** tone and lights flash for three seconds
- Amber boxed digital flaps display on EICAS DU
- Audible tones and warnings:  
*"Ding"*

## ADC:

CAS: None

CWP: None

- Both PFDs will display **ADC TEST** in upper left of the PFD
- Red Vmo /Mmo limit bar on PFD moves down
- Speed tape runs up to **330** kts and Mach up to **.810M** Vmo overspeed cue
- (If flaps down it goes to flap speed)
- Vertical rate of climb moves up to + 5,000' and altitude climbs to 1,000'
- Vertical speed indicates 500 fpm rate of climb
- On the MFD, 466 TAS and -45 degrees Celsius SAT is displayed
- Must be in ground mode with airspeed less than 50 knots for test to occur
- Audible warning:  
"Over Speed"

## STALL:

CAS: **L AOA HT FAIL** (During left side stall test)

**R AOA HT FAIL** (During right side stall test)

**L R AOA HT FAIL** (Could display during both test)

CWP: None

- Master **CAUT** tone and lights flash (Tone may not repeat for right side test)
- Red Low Speed Awareness (LSA) on PFD moves up
- Both PFDs will display **ADC TEST** in the top left of the PFD
- 40 knots IAS to the respective PFD as long as the PTT button is pressed
- The low speed awareness (LSA) bar replaces the V-speed display
- Left side AOA needle will sweep and runs up into the red zone
- When left AOA reaches red zone, left stick shaker activates and audible "Stall"
- Immediately followed by right side test, stick shaker activates and audible "Stall"
- Stall self-test can only be performed when the aircraft is on the ground
- Audible warning:  
"Stall"

## ANTI-ICE:

CAS: **WG/STAB HT OK**

CWP: **WING OVHT**  
**STAB OVHT**

- Master **WARN** tone and lights flash
- Audible warning:  
"Ding Ding Ding.....Ding Ding Ding"

## **GPWS:**

CAS: None

CWP: None

Short test (Momentary push PRESS TEST)

- Both amber GPWS FAIL annunciators illuminate
- (Not mutable) If Mute button is selected, "Inop" is heard and test continues
- Audible warning:  
*"Glideslope, Pull-Up!, "siren sound", Windshear Windshear Windshear"*

Long Test (Depress PRESS TEST two seconds)

- Both amber GPWS FAIL annunciators illuminate
- (Not mutable) If Mute button is selected, "Inop" is heard and test continues
- Audible Warnings:  
*"Glideslope, Pull-Up!, Windshear Windshear Windshear, Terrain, Sink Rate Pull-Up!, Terrain Pull-Up!, Don't Sink Don't Sink, Too Low Terrain, Too Low Gear, Too Low Flaps, Too Low Terrain, Glideslope, Minimums Minimums, 50, 40, 30, 20, 10, 500, Windshear Windshear Windshear, Too Low Terrain, Caution Terrain Caution Terrain, Terrain! Terrain! Pull-Up, Caution Obstacle Caution Obstacle, Obstacle Obstacle, Pull-Up!"*

## **SPLRN RESET:**

CAS: None

CWP: None

- Used to reset the Spoileron computers
- Not used in flight simulation

## **FLAPS RESET:**

CAS: None

CWP: None

- Used to reset the Flap Control Unit
- Not used in flight simulation

## **OFF:**

CAS: None

CWP: None

- If selected to this position and the PRESS TEST button is pushed, any of the System Test in progress will terminate