

SPORT CALIBRATION CHECKLIST w/ GEAR WARN

Cklst gear.doc 05/01 rev 3



The POST INSTALLATION and HANGAR CALIBRATION CHECKLISTS must be completed prior to flight. The zero "G" maneuver requires that all unsecured items be removed from the aircraft prior to flight. Two pilots are required during the calibration process and one must be assigned the task to fly the aircraft and nothing more. The flight calibration area will be cleared for traffic and will be at a safe altitude with the IAS always within the green IAS band. Stalls are not required or desired!

Switch activation is done by pushing and holding the designated colored switch for 1 second, then releasing the switch. To get into the calibration mode, momentarily hold both the black and red switch pushed, then release both at the same time.

There are three modes, *Flight*, *Self Test* and *Calibration*. In the *Calibration* mode, there are five pages. Page *Hangar Calibrate* sets the pressure transducer zero offsets. Page *Zero "G"* is where the no lift data is recorded. Page *Angle Advisory* is where the "angle push" warning is set. Page *Landing Gear* is where the "landing gear warning speed" is set. Page *Save* is how data is stored to permanent memory.

Cruise Configuration is with gear, flaps and slats up. *Landing Configuration* is with the gear, flaps and slats down for landing. In the *Flight* mode, the black switch is the dimmer and the red switch is the push to test. In the *Self Test* mode the buttons are inactive. In the *Calibrate* mode, the red switch is the record data switch and the black switch is the skip to next page button without recording.

POST INSTALLATION PRE FLIGHT

Blow into Blue tube at CPU-- Air exits Upper Wing Port
Blow into Green tube at CPU- Air exits lower Wing Port
Blow into Red tube at the CPU----- IAS increases
Suck on Clear tube at the CPU -----Altimeter increases
PITOT/STATIC LEAK TEST ----- COMPLETED
AIRCRAFT LOG----- UPDATED
AIRCRAFT CHECKLISTS----- UPDATED
ANNUAL CONDITION C/L ----- UPDATED
CHAPTER IX TESTING ----- COMPLETED

HANGAR CALIBRATION

Aircraft Location ----- Hangar
Gear SW ----- DOWN
AOA Power----- ON
AOA Self Test ----- PASSED or ERRORS
RED/BLACK SW----- PUSH BOTH/RELEASE
PAGE hangar calibrate ----- All LEDs flash
RED SW record ----- PUSH/RELEASE
BLACK SW skip 3 pages----- 3x PUSH/RELEASE
PAGE save data to permanent memory?----- Odd LEDs flash
RED SW Yes record ----- PUSH/RELEASE
AOA Power----- OFF

CRUISE DATA CALIBRATION

AIRCRAFT LOCATION-----SAFE ALTITUDE
AOA Power On ----- ERRORS 11, 12 & 33
FLAPS/GEAR----- CONFIRMED UP
RED/BLACK SW----- PUSH BOTH/RELEASE
PAGE hangar calibrate ----- All LEDs flash
BLACK SW skip don't record----- PUSH/RELEASE
PAGE zero lift ----- Bottom Green LED flash
Zero "G" Maneuver 1/2 sec. ----- ANY SAFE IAS
RED SW record ----- PUSH/RELEASE
PAGE angle advisory ----- Bottom 6 LEDs flash
AIRSPEED 1.15Vs₁ descending slow flight YES
RED SW record ----- PUSH/RELEASE
BLACK SW skip gear page ----- PUSH/RELEASE
PAGE save cruise data to memory? ----- odd LEDs flash
RED SW Yes, record ----- PUSH/RELEASE

LANDING DATA CALIBRATION

AIRCRAFT LOCATION-----SAFE ALTITUDE
FLAPS/GEAR----- CONFIRMED DOWN
RED/BLACK SW----- PUSH BOTH/RELEASE
PAGE hangar calibrate ----- All LEDs flash
BLACK SW skip don't record----- PUSH/RELEASE
PAGE zero lift ----- Bottom Green LED flash
Zero "G" Maneuver 1/2 sec. ----- ANY SAFE IAS
RED SW record ----- PUSH/RELEASE
PAGE angle advisory ----- Bottom 6 LEDs flash
AIRSPEED 1.15Vs₀ descending slow flight YES
RED SW record ----- PUSH/RELEASE
BLACK SW skip gear page ----- PUSH/RELEASE
PAGE save landing data to memory? ----- odd LEDs flash
RED SW Yes, record ----- PUSH/RELEASE

LANDING GEAR WARN CALIBRATION

AIRCRAFT LOCATION-----SAFE ALTITUDE
FLAPS/GEAR----- CONFIRMED DOWN
RED/BLACK SW----- PUSH BOTH/RELEASE
PAGE hangar calibrate ----- All LEDs flash
BLACK SW skip to LG page ----- 3x PUSH/RELEASE
PAGE landing gear ----- Bottom 3 LEDs flash
AIRSPEED ----- V approach + 15 knots
RED SW record ----- PUSH/RELEASE
PAGE save data to memory? ----- odd LEDs flash
RED SW Yes, record ----- PUSH/RELEASE
FLAPS/GEAR----- CONFIRMED UP
RED/BLACK SW----- PUSH BOTH/RELEASE
BLACK SW skip to save page ----- 4x PUSH/RELEASE
PAGE save data to memory? ----- odd LEDs flash
RED SW Yes, record ----- PUSH/RELEASE

FLIGHT TEST AOA

VERIFICATION C/L ----- COMPLETE
CHAPTER X CALIBRATING ----- COMPLETE
CHAPTER X FLIGHT TESTING ----- COMPLETE

FLY THE AIRPLANE & WATCH FOR TRAFFIC!