

Cowan Simulation 206L3 for X-Plane 12

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INTERIOR & PRESTART CHECK

- ✓ DOORS - **SECURED**
- ✓ ROTOR BRAKE - **OFF**
- ✓ SEATS & BELTS - **FASTENED / ADJUSTED / SECURED**
- ✓ BATTERY switch - **ON** (Mute Horn on Panel)
- ✓ GROUND POWER – As Required
- ✓ FLIGHT CONTROLS - Check freedom of movement of pedals and cyclic then center the controls.
- ✓ LDGLT switch - **OFF** (on collective)
- ✓ THROTTLE - Rotate past the idle stop and fully open. Rotate back to idle stop, click the idle stop button and fully close the throttle.
- ✓ FUEL QUANTITY gauge - **CHECK**
- ✓ INSTRUMENTS - **STATIC POSITIONS**
- ✓ ALTIMETER - **SET**
- ✓ CLOCKS - **SET & RUNNING**
- ✓ MAGNETIC COMPASS - **CHECK**
- ✓ CAUTION PANEL TEST button - **PRESS** check that all caution panel and warning lights remain illuminated while pressed.

- ✓ TOT test – **PRESS** check red light illuminated
- ✓ **FUEL VALVE** - **Check that it's ON & Red Guard Secured**
- ✓ **FUEL BOOST** breakers – **Push IN (ON)**
- ✓ HYD switch – **ON** (CENTER CONSOLE)
- ✓ DIR GYRO switch – **ON**
- ✓ AVIONICS switch - **ON**
- ✓ GEN switch – **OFF** (IN START POSITION)
- ✓ ANTI ICE switch – **OFF** (CENTER CONSOLE)
- ✓ PITOT HTR switch - **OFF**
- ✓ POSN LT switch - **OFF**
- ✓ INST LTS - **Adjust as required.**
- ✓ ROTOR BRAKE - **OFF**

ENGINE START

FAMILIARIZE YOURSELF WITH THIS SECTION BEFORE BEGINNING AS THINGS NEED TO HAPPEN IN SEQUENCE WITH APPROPRIATE TIMING.

- ✓ ANTI COLL LT switch - **ON**
- ✓ POSN LT switch - **ON**
- ✓ ROTOR BLADES - **Clear**
- ✓ **CAUTION** - **ENSURE ROTOR BRAKE IS RELEASED BEFORE STARTING ENGINE.**
- ✓ STARTER button (on collective) **HOLD** ensure N_1 indicates rotation. Keep holding until 58% N_1 when starting.
- ✓ **CAUTION** - **DO NOT open the throttle before 12-15% N_1**
- ✓ THROTTLE – Slowly open the throttle to introduce fuel at **12-15% N_1**
- ✓ **CAUTION** - **DO NOT** exceed 810°C TOT for more than 10 seconds with a peak of 927°C for no more than 1 second.
- ✓ If engine fails to start within 15 seconds then close the throttle.
- ✓ ENG OUT - Warning light should extinguish above ~55% N_1
- ✓ GAS PRODUCER (N1) – Check for 60-62%
- ✓ ENG OIL gauge - **Temperature and pressure indicating normal.**
- ✓ THROTTLE – Open to 70% Gas Producer RPM

- ✓ GEN switch - **ON**; Check that the GEN caution light extinguished and ammeter indicating a load.
- ✓ ELT – Check for inadvertent transmission
- ✓ HYD SYS CONT BOOST – Breaker **OFF** then **ON**

ENGINE RUNUP

- ✓ ALL gauges - **Indicating normal.**
- ✓ THROTTLE - SLOWLY open throttle to full. Observe N₂ stabilizes @ 97-100%
- ✓ PITOT HTR switch - **ON (when OAT is below 5°C (41°F))**
- ✓ ANTI ICE switch - **ON (when OAT is below 5°C (41°F))**

BEFORE TAKEOFF

- ✓ DOORS – **SECURED (If Installed)**
- ✓ PASSENGER SEAT BELTS - **FASTENED**
- ✓ CAUTION AND WARNING lights - **EXTINGUISHED**
- ✓ FUEL QUANTITY - **CHECK**

TAKEOFF

- ✓ INSTRUMENTS - **Normal Operating ranges.**
- ✓ AREA - **Clear**
- ✓ HOVER POWER - **Check**

BEFORE LANDING

- ✓ INSTRUMENTS - **Normal Operating ranges**
- ✓ PASSENGER SEAT BELTS – **Fastened**

ENGINE SHUTDOWN

- ✓ COLLECTIVE - **FULL DOWN**
- ✓ CYCLIC - **CENTERED**
- ✓ THROTTLE - **ROTATE** to idle stop to turn off governor then Idle

@ (~64% N₁ for 2 minutes.

- ✓ ANTI ICE switch – **OFF** (CENTER CONSOLE)
- ✓ PITOT HTR switch - **OFF**
- ✓ GEN switch – **OFF** (START POSITION)
- ✓ IDLE STOP BUTTON – Press
- ✓ HYD SYS – **OFF** (CENTER CONSOLE)
- ✓ THROTTLE - **CLOSE**
- ✓ ROTOR BRAKE - APPLY 38-30% N_R
- ✓ DIR GYRO switch - **OFF**
- ✓ AVIONICS switch - **OFF**
- ✓ FUEL BOOST breakers – **OFF (OUT)**
- ✓ ANTI COLL LT switch - **OFF**
- ✓ POSN LT switch - **OFF**
- ✓ BATTERY switch - **OFF**