



**Cheyenne 400 LS  
Normal Procedures  
Checklist**

**Preflight check**

**COCKPIT**

Airplane Records..... CHECK

**WARNING**  
No braking action will occur if the parking brake control handle is pulled and held before depressing the brake pedals.

- Parking Brake..... SET
- Flight Controls..... FREE - PROPER MOVEMENT
- Trim Controls..... NEUTRAL
- Electrical Switches..... OFF
- Circuit Breakers..... IN
- Landing Gear Selector..... DOWN NEUTRAL
- Battery Master Switches..... ON
- Cross Tie Operation..... OFF/DISC
- Master Warning Light..... CHECK ON
- Master Caution Light..... CHECK ON
- Generator Switches..... OFF
- Crosstie..... OFF/DISC
- Bleed Air Switches..... OFF
- GPU Connect Switch..... ON IF AVIAL.
- Voltage and Frequency..... CHECK RISE
- Fuel crossfeed control..... ALL
- Fuel Quantity Gauges..... CHECK
- Flaps..... CHECK - UP
- Pitot Heat..... SET ON - GREEN

External power from a Ground Power Unit (GPU), where available, will boost starting power. NOTE: Pressurization controls should be OFF to prevent pressurization of the cabin while on the ground.

**ECS CONTROLS**  
Set environment controls once external power is available. If not connected to external power, postpone the following steps prior to engine start.

- Temperature Control..... AUTO
- Selector Control..... HI
- Cabin Fan..... SET
- Thermostat..... SET COMFORT
- Emergency Press..... AUTO
- Cabin Air Selector..... OUTSIDE
- Cabin/OAT Temperature Indicator..... CHECK CABIN TEMP



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Exterior Lighting  
Windscreen  
Check for proper operation and visibility

- Navigation, Recognition, and Strobe Lights..... CHECK
- Ice Inspection Light..... SET ON – GREEN
- Windshield Wiper..... CHECK

**Prior to Start**  
**CHECK FUEL AND ICE SYSTEMS AND POWER CONTROLS.**  
**SET CONTROL/AUTOPILOT SYSTEM.**

- Fuel Quantity, left and right..... CHECK
- Fuel Pump, left and right..... SET ON – GREEN
- Select Fuel Pump left and right..... SET ON – GREEN
- Fuel pressure, left and right (Min pressure 5-15 PSI)..... CHECK
- Power Levers..... START/IDLE
- Prop pitch levers..... LOW/IDLE
- Fuel condition levers..... CHECK – IDLE
- Gear handle..... CHECK DOWN
- Ice protection heat switches..... SET ON – GREEN
- Avionics Master Switches..... OFF
- Inverter Power Switch..... OFF



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### Engine Start

All controls are on the overhead panel

**Warning**  
Failure to set the Avionics Master and Inverter Power switches to the OFF position during the engine startup or shutdown may result in equipment failure.

- Check power to start- left Bus ammeters..... CHECK 10-15 AMPS
- Bus voltage left..... CHECK 20-30 V
- Fuel Ignition Safety (FUEL IGN)..... SET ON – GREEN
- Ignition Select..... SET ON – GREEN
- Prop Unfeather Safety..... SET ON – GREEN
- Starter Motor..... SET ON – GREEN

Turbine spool up will commence when the motor is switched ON. If external power is not available spool up will take 3-6 seconds longer

Igniter (START/ENRICH)..... PRESS-HOLD

Hold igniter until combustion is achieved. Observe prop RPM – should rise to 1,000 RPM minimum.

- EGT..... CHECK LIMIT
- Bleed Air..... ON – CHECK GREEN
- Oil pressure/temperature..... CHECK LIMIT
- Fuel Ignition Safety (FUEL IGN)..... OFF
- Ignition Select..... OFF

Repeat procedure for right engine

**CAUTION**

**Abort engine start immediately if:**

- Propeller fails to rotate.
- RPM does not reach 10%(within 10 seconds.
- EGT is not raising within 5 seconds after fuel flow indication,
- EGT rapidly approaching 770°C. Exceeding 770°C EGT may cause serious engine damage.
- RPM stops accelerating before reaching 65% rpm.
- Oil pressure fails to rise before reaching 65% rpm.
- Fuel pressure low annunciator ILLUMINATED at idle rpm.
- Any unusual noise or vibration



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**AVIONICS POWER/INVERTER START**

- Inverter power..... ON – CHECK GREEN
- Inverter select..... ON – CHECK GREEN
- Ground clearance switch..... ON – CHECK GREEN
- Avionics master switch 1..... ON – CHECK GREEN
- Avionics master switch 2..... ON – CHECK GREEN
- Radios/electrical equipment..... SET ON

Follow the preflight steps found in the Autopilot Procedures.

**Before Taxi**

Follow the Cabin Pressurization Checklist (Ground Operations) prior to these Before Taxi procedures.

Scan engine instruments frequently to insure normal limits.

- Altimeter..... SET
- Fuel condition levers..... CHECK – IDLE
- EGT gauge, left and right..... CHECK – NORMAL
- Oil temperature/pressure, left and right..... CHECK – NORMAL
- Fuel flow..... CHECK – NORMAL
- Circuit breakers..... CHECK IN
- Seat belt lights..... ON – CHECK GREEN
- No smoking lights..... ON – CHECK GREEN
- Ice Protection switches..... ON – CHECK GREEN
- Pitot heat..... CHECK ON
- Strobe Light..... ON – CHECK GREEN
- Position lights..... ON – CHECK GREEN
- Flaps..... SET
- Fuel Quantity..... CHECK
- Transponder..... SET
- Warning and Caution Lights..... EXTINGUISHED
- Autopilot/Yaw Damper..... OFF
- Elevator Trim..... SET
- Rudder Trim..... NEUTRAL
- Aileron Trim..... NEUTRAL



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**Normal takeoff check**

**CAUTION**  
**Do not exceed engine limits.**  
**NOTE: Demonstrated crosswind component for takeoff is 18 knots. Demonstration tests were performed on a paved and level runway.**

- Heading Indicator..... CHECK
- Brakes..... APPLY
- Power Levers..... SET 30% TORQUE
- Propeller Governing..... VERIFY
- Brakes..... RELEASE
- Power Levers..... SET 100% TORQUE
- Rotate controls..... 104 KIAS
- Airspeed..... ACCELERATE TO  
123 KIAS Until  
above 50 feet  
UP
- Gear (Below 170 KIAS)..... UP

**Climb Check**

NOTE: When setting power advance the power levers to or only slightly beyond the point at which the torque or EGT limit, as applicable, is reached. If the power levers are advanced to beyond the point at which limiting occurs, the torque or EGT limit, as applicable, will be exceeded if a limiter failure occurs.

- Climb Power..... SET
- Seat Belts and No Smoking Signs..... AS REQUIRED
- Pressurization Controls (see checklist)..... SET
- Engine Instruments..... MONITOR
- Yaw Damper..... AS DESIRED
- ECS Cabin Comfort Controls..... SET AS DESIRED



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**Cruise Check**

NOTE: When setting power advance the power levers to or only slightly beyond the point at which the torque or EGT limit, as applicable, is reached. If the power levers are advanced to beyond the point at which limiting occurs, the torque or EGT limit, as applicable, will be exceeded if a limiter failure occurs.

- Cruise Power ..... SET
- Autopilot speed bug (Airspeed Indicator)..... SET IF DESIRED
- Autopilot speed control..... SET IF DESIRED
- Engine Instruments..... MONITOR
- Fuel Quantity Indicators..... MONITOR
- ECS Cabin Comfort Controls..... SET AS DESIRED

**Rough Air Operation Check**

Slow Airspeed to below rough air penetration speed (at or below 25,000 ft, 195 KIAS. Above 25,000 ft, reduce speed 7 KIAS for each 5,000 ft above 25,000 ft). Fly by reference to attitude indicator. Do not change trim. Avoid abrupt maneuvers.

- Seat Belt Sign..... ON
- Ignition Select Switch..... ON – CHECK GREEN

**Descent Check**

**WARNING**  
**Do not retard the power levers below FLIGHT IDLE in flight.**

- Pressurization (see checklist)..... SET
- Altimeter..... SET
- ECS Temperature Control..... AS REQUIRED
- ECS Cabin Fan..... AS REQUIRED
- Power..... AS REQUIRED



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**Holding Check**

Recommended Holding Airspeed..... 150 KIAS  
 Fuel Pressure and flow..... MONITOR

**Before Landing Check**

Propeller RPM levers..... FULL FORWARD  
 EGT..... MONITOR  
 Propeller RPM..... MONITOR  
 Fuel Ignition Safety (FUEL IGN) left & right..... SET ON – GREEN  
 Ignition Select left & right..... SET ON – GREEN  
 Seat Belts and No Smoking Signs..... ON – CHECK GREEN  
 Flaps (194 KIAS max apply flaps 10°)..... AS REQUIRED  
 Landing Gear (below 170 KIAS)..... DOWN  
 Gear Position Lights..... 3 GREEN  
 Landing Lights..... AS REQUIRED  
 Autopilot Yaw Damper..... OFF  
 Cabin Pressure..... DEPRESSURIZED  
 Flaps (167 KIAS max)..... 25°  
 Airspeed (recommended approach speed, full flaps, max  
 landing weight) 105 KIAS  
 (at 11, 100 lb)

Note: Ignition must be turned **ON** prior to landing and remain **ON** until the landing is completed or until climb has been established following a balked landing.



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**Landing Check**

**WARNING**  
**Do not retard power levers below FLIGHT IDLE in flight.**

**CAUTION**  
**When landing at light weights, use caution when applying brakes as excessive pedal pressure will result in skidding the tires with a resultant loss of braking effectiveness.**

NOTE: Demonstrated crosswind component for landing is 18 knots. Demonstration tests were performed on a paved, dry, level runway.

Prior to reaching 50 feet above landing surface, verify:

- Landing gear..... DOWN-3 GREEN
- Flaps..... 40° (DOWN)
- Airspeed (recommended approach speed, full flaps, max landing weight) 105 KIAS (at 11, 100 lb)
- Power Levers..... AS REQUIRED

After Touchdown:

- Power Levers..... GROUND IDLE
- Brakes..... AS REQUIRED
- Reverse Thrust..... AS REQUIRED

**Balked Landing Climb Check**

- Power Levers..... ADVANCE TO TAKEOFF POWER
- Torque and Temperature..... WITHIN LIMITS
- Airspeed..... 110 KIAS
- Flaps..... APPROACH 25°
- Landing gear..... UP (after climb established)
- Flaps..... UP
- Airspeed..... 125 KIAS





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**Shutdown Check**

**Caution**  
**Do not retard the rpm levers to the LOW position if the power levers are aft of the ground idle stop.**

Note: No braking action will occur if the parking brake control handle is pulled and held before depressing the brake pedals.

- Power levers..... GROUND IDLE  
(BELOW 10% prop RPM)
- Parking Brake..... SET
- Prop RPM Levers..... LOW/IDLE
- Flaps..... UP
- Ice Protection Equipment..... OFF
- Strobe Light..... OFF
- Position/recognition lights..... OFF
- ECS controls (see checklist)..... CHECK OFF

**CAUTION**  
Failure to set Avionics Master and Inverter Power switches to the OFF position during engine startup or shutdown may result in equipment failure.

- Inverter Power Switch..... OFF
- Avionics Master Switches..... OFF
- Radios/electrical equipment..... OFF

**ENGINE SHUTDOWN – ENGINE 1**

- Bleed Air..... OFF
- Fuel Ignition..... OFF
- Prop unfeather safety..... OFF
- Fuel Pumps..... OFF

Monitor engine shutdown. Check EGT falloff.

- Ignition Select..... OFF
- Select Fuel Pump..... OFF
- Generator..... OFF

Repeat process for engine 2

- Master battery switches..... OFF