# Cessna 750 Citation X

# **Simplified Operating Notes**

Flight Simulation Use Only

Release 1 - February 2024

#### **EXPLANATORY NOTES**

These operating notes aim to provide the sim pilot with clear and straightforward procedures inspired by real world operations.

Procedures with numbered items should be performed as "Read and Do". Perform each action individually. Procedures without numbers should be read in their entirety before commencing the procedure. Both methods may be combined in a single procedure.

Checklists may be performed as a memory flow then checked using the checklist. In real flight operations not every memory flow item is then represented in the checklist, items of low consequence may only be contained in the procedure. However for simplicity in this document Checklists are comprehensive and may be used in the same "read and do" style as a numbered procedure.

For multiple flights in one session, the **Cockpit Preparation Procedure** may be commenced after the **Parking Checklist** has been completed. In this case it may be necessary to execute the steps from the **Power Up Procedure** to start up the APU and provide bleed air.

If the **Power Down Procedure** has been completed then it is essential that the procedures are re-commenced from **Power Up Procedure**.

Limited Emergency / Abnormal Notes are provided in a dashed boxes

### 1. PLANNING INFORMATION

Basic Empty Weight	9810 kg	21625 lbs
Maximum Zero Fuel Weight	11060 kg	24400 lbs
Maximum Landing Weight	14420 kg	31800 lbs
Maximum Takeoff Weight	16510 kg	36400 lbs

Maximum Operating Altitude FL510

Demonstrated Crosswind Component 10 kts

# 2. POWER UP PROCEDURE

SWITCH PANELS			
1	PASS OXY —	AUTO	
2	EMERG LT —	ARMED	
3	FUEL CROSSFEED ————	OFF	
4	GRVTY XFLOW —	OFF	
5	CTR WING XFR	OFF	
6	LH and RH GEN	GEN	
7	LH and RH FUEL BOOST ———	NORM	
8	LH and RH IGNITION————	NORM	
9	LH and RH FADEC ————	NORM	
10	STBY PWR —	ON, RED LIGHT CHECKED	
11	A AUX PUMP ————	OFF	
12	PUMP A and B UNLOAD ———	NORM	
13	ANTISKID ————	NORM	
14	External Lights —————	AS REQUIRED	
15	Pressurization Switches ———	AS REQUIRED	
16	BATT 1 and BATT 2	ON	

CONTINUES ...

### ... POWER UP PROCEDURE CONTINUED

APU SYSTEM		
17	APU MASTER-	ON
18	APU TEST————	PERFORM
19	APU ———	START
20	APU RPM ————	———— WAIT FOR 100%
21	APU GENERATOR———	ON
22	APU BLEED AIR ———	ON

SWITCH PANELS		
23	ISOL VALVE ———————	OPEN
24	CKPT and CAB PAC——————	ON
25	AVIONICS POWER —————	ON
26	EICAS POWER—	ON

FMS		
27	NAV DATABASE CYCLE —	——— CHECK
28	POS INIT —	—— PERFORM

PEDE:	STAL	
29	WARNING SYSTEMS TEST —	PERFORM
30	THROTTLE LEVERS ————	CUT OFF
31	ELEV, AIL, RUD TRIM ———	-6.0, NEUTRAL, NEUTRAL

### 3. COCKPIT PREPARATION PROCEDURE

FMS		
1	FLT PLN —	— ENTER
	Enter DEST into right LSK before entering rest of pla	an.
	Ensure DEST from right LSK is transferred via scra	ntchpad
	to <b>left LSK</b> at end of ACTIVE FLIGHT PLAN.	
	DO NOT ENTER DEST INTO FLT PLN WITH KEYPAD	
2	FLT PLN —	ACTIVATE
3	PERF INIT pages ————————————————————————————————————	OMPLETE
4	PERFORMANCE INIT 5/5 ———— CON	IFIRM INIT
5	PERF DATA pages ————————————————————————————————————	— VERIFY
6	TAKEOFF INIT pages ————————————————————————————————————	OMPLETE
7	TAKEOFF INIT 4/4 — CON	IFIRM INIT
8	TAKEOFF DATA 2/2, V SPEEDS——————————————————————————————————	— VERIFY

PFD			
9	V SPEEDS-	VERIFY	
10	HSI SOURCE——————	AS REQUIRED	
11	HSI AHRS SLAVING —————	— HEADING CHECKED (x2)	
12	INITIAL ALTITUDE SELECTION ——	SET/VERIFIED	
13	INITIAL HEADING —————	SET/VERIFIED	
14	TO/GA BUTTON—————	PRESS	
15	FLIGHT MODE ANNUNCIATORS —	ROL, TO	
16	LNAV MODE ————————————————————————————————————	—— ENGAGE AS REQUIRED	
16	YD and MTRIM —	ENGAGE	

**CONTINUES...** 

### ... COCKPIT PREPARATION PROCEDURE CONTINUED

### 

DAD	inc.	
RAD	103	
18	ATC/TCAS———————	CODE ENTERED
19	NAV and ADF frequencies ————	———— AS REQUIRED

#### ..WHEN REFUELLING COMPLETE..

SWIT	CH PANELS	
20	CTR WING XFR —	——— NORM

### 4. BEFORE START CHECKLIST

1	External Doors —————	CLOSED
2	Parking Brake ————	ON
3	GND REC lights —————	ON
4	SEAT BELT LTS	ON
5	ATC / TCAS —	ATC ALT
6	FUEL BOOST —	LH and RH NORM
7	IGNITION ————————————————————————————————————	LH and RH NORM
8	FADEC —————	LH and RH NORM
9	CTR WING XFER —————	LH and RH NORM
10	CROSSFEED —	OFF
11	GRAVITY XFLOW ————	OFF

**END OF CHECKLIST** 

### **5. ENGINE START PROCEDURE**

1		———— MORE THAN 30 PSI
2	ISOL VALVE ————	CLOSED
STAR	T RIGHT ENGINE	
3	ENGINE START RH ————	PRESS, CONFIRM LIGHT
4	THROTTLE —	— IDLE, BEFORE 10% N2(TURB%)
5	N1 (FAN%) —————	———— CONFIRM INCREASE
6	OIL PRESSURE ————	———— CHECK GREEN BAND
7	ITT —	——— MONITOR
8	START LIGHTS —	OUT BY 57% N2 (TURB%)
9	HYDRAULIC PRESSURE ——	VERIFY
STAR	T LEFT ENGINE	
10	ENGINE START LH ————	PRESS, CONFIRM LIGHT
11	THROTTLE —	— IDLE, BEFORE 10% N2(TURB%)
12	N1 (FAN%)	———— CONFIRM INCREASE
13	OIL PRESSURE ————	———— CHECK GREEN BAND
14	ITT —	——— MONITOR
15	START LIGHTS —	OUT BY 57% N2 (TURB%)
16	HYDRAULIC PRESSURE ——	VERIFY

# **6. AFTER START PROCEDURE**

<b>U.</b> 7		_
1	DC AMPS/VOLTS —	CHECK
2	APU BLEED AIR ————	OFF
3	L ENG BLD AIR ————	HP/LP
4	R ENG BLD AIR ————	OFF
5	START PRESS (EICAS ENG) —	———— MONITOR, CHECK 0
6	ISOL VALVE —	OPEN
7	START PRESS (EICAS ENG) —	—— MONITOR, CHECK NORMAL
8	R ENG BLD AIR ————	HP/LP
9	ISOL VALVE —————	CLOSED
APU IS	RECOMMENDED WITH BLEED	AND GENERATOR DURING TAKEOFF
10	APU BLEED AIR ————	OFF IF NOT REQUIRED
11	APU —	STOP IF NOT REQUIRED
12	APU MASTER ————	OFF IF NOT REQUIRED
13	FLAPS/SLATS ————	SET FOR TAKEOFF
14	TRIMS ————	SET FOR TAKEOFF
15	SPEEDBRAKES —	— CHECK OPERATION, STOWED
16	FLIGHT CONTROLS —	———— CHECK
17	AHRS————	CHECK ATTITUDE AND HEADING
18	EICAS —	——————————————————————————————————————
19	PRESSURISATION— CHECK C	ABIN AT DEPARTURE ELEVATION
20	SEAT BELT LIGHTS ————	PASS SAFETY

# 7. TAXI PROCEDURE

1	TAXI LIGHT ————	ON
2	TOE BRAKES ———	————HOLD
3	PARKING BRAKE ——	RELEASE
4	BRAKES ————	СНЕСК
5	STEERING —	CHECK
THRU	ST REVERSER CHECK	
6	THRUST REVERSERS –	DEPLOY
7	TR LIGHTS ——— CHE	CK ARM, UNLOCK, DEPLOY ILLUMINATE
8	TR STOW SWITCHES —	——————————————————————————————————————
9	TR LIGHTS —	— CHECK UNLOCK, DEPLOY EXTINGUISH
10	TR STOW SWITCHES —	NORM
11	TR LIGHTS —	CHECK ALL EXTINGUISH
12	ANTI-ICE —	AS REQUIRED
13	TR LIGHTS —	— CHECK UNLOCK, DEPLOY EXTINGUISH
14	TR STOW SWITCHES —	NORM
15	TR LIGHTS —	———— CHECK ALL EXTINGUISH
16		AS REQUIRED
17	PITOT/STATIC ———	LH and RH ON

### 8. BEFORE TAKEOFF CHECKLIST

1	FLAPS / SLATS —————	SET FOR TAKEOFF
2	TRIMS —	SET FOR TAKEOFF
3	SPEEDBRAKES ————	STOWED
4	FLIGHT CONTROLS —	CHECKED
5	THRUST REVERSER LIGHTS —	ALL OFF
6	PITOT/STATIC —	LH and RH ON
7	EICAS —	——————————————————————————————————————
8	GND REC LIGHTS —————	——— ANTI-COL
9	LANDING LIGHT —	LH and RH ON

**END OF CHECKLIST** 

#### 9. TAKEOFF PROCEDURE

- Position ailerons for wind correction
- Throttles to TO/MC Detent and check EICAS green TO indication
- Verify FAN% reaches target
- Release Brakes
- Vr : Rotate to Flight Director Command Bars (TO Mode)
- Positive Rate of Climb: Gear Up
- Above 400ft AAL: Verify or Engage Flight Director roll mode
- Above 400ft AAL and above 170 KIAS: Flaps Up
- Throttles to CLB thrust
- Continue acceleration to 210 KIAS minimum (Normal Min Clean)

If manoeuvring is required during acceleration, limit bank angle to 15 degrees until speed exceeds V2+15.

In the event of an engine failure maintain V2 minimum using FLC pitch mode for guidance. Level off at acceleration altitude then at V2+15 retract flaps to 5. If diversion is required select flaps up and accelerate to Venr 190 KIAS. Note Slats will remain extended if required even with Flaps selected up.

# 10. AFTER TAKEOFF CHECKLIST

1	LANDING GEAR ————————————————————————————————————	UP
2	FLAPS / SLATS ————————————————————————————————————	UP
3	THROTTLES —	CLIMB
4	ANTI-ICE —	—— AS REQUIRED
5	PRESSURISATION ————————————————————————————————————	———— CHECKED
6	TAXI and LANDING LIGHTS ——————	OFF
7	ENG SYNC —	——— AS REQUIRED
חברס	DE EL 210 (LE ADLI ON EOD TAVEOEE)	
BEFU	RE FL310 (IF APU ON FOR TAKEOFF)	
8	APU BLEED AIR ———————————————————————————————————	OFF
9	APU ———	STOP
10	APU MASTER —	OFF
11	PRESSURISATION ————————————————————————————————————	——— CHECKED

**END OF CHECKLIST** 

# 11. DESCENT CHECKLIST

1	PRESSURISATION ————— I	ANDING ELEVATION
2	FUEL CROSSFEED —	OFF
3	FUEL STATE ———————————————————————————————————	———— CHECKED
4	LANDING DATA	———— CHECKED
5	MINIMUMS —	SET
BELO	W FL310 AND LESS THAN 300 KTS (IF REQU	IRED)
6	APU MASTER —	ON
7	APU GENERATOR ————————————————————————————————————	———— CHECK ON
8	APU BLEED AIR ———————————————————————————————————	ON
9	SEAT BELT LIGHTS —	——— PASS SAFETY

### 12. APPROACH CHECKLIST

ENG SYNC ———

4

1	LEFT and RIGHT	THRUST REVERSER —	NORM
2	SEAT BELT LTS -		ON
3	LANDING LIGHT		LH and RH ON

#### **END OF CHECKLIST**

Icing conditions: minimum speed 200 kts without slats extended

Recommended Minimum Manouvering Speeds - Max 30 Degree AoB

Clean 210

Slats 190

Flaps 5 170

Flaps 15 150

### 13. LANDING CHECKLIST

- At 170 KIAS Select Flaps 15
- Slow to Vref + 15
- Gear Down
- Select Flaps 35
- Speed : Vapp / Vref+5

1	LANDING GEAR ————————————————————————————————————	— DOWN, 3 GREENS
2	FLAPS —	<del></del>
3	SPEED BRAKES —	——— RETRACTED
4	EICAS —	———— CHECKED
5	MISSED APPROACH ALTITUDE ————	— ×000FT, CHECKED

**END OF CHECKLIST** 

#### 14. GO-AROUND PROCEDURE

- Press TO/GA Button
- Throttles to TO/MCT Detent and check EICAS green TO indication
- Pitch Target 10 Degrees or FD Pitch Command
- Flaps 15 (Or Flaps 5 if Flap 15 Landing)
- Positive Rate of Climb: Gear Up
- Above 400ft AAL: Verify or Engage Flight Director roll mode
- Above 400ft AAL and above 170 KIAS: Flaps Up
- Throttles to CLB thrust
- Continue acceleration to 210 KIAS minimum (Normal Min Clean)

If manoeuvring is required during acceleration, limit bank angle to 15 degrees until speed exceeds Vapp+15.

In the event of an engine failure maintain Vapp+15 minimum using FLC pitch mode for guidance. Level off at acceleration altitude then retract flaps to 5. If diversion is required select flaps up and accelerate to Venr 190 KIAS. Note Slats will remain extended if required even with Flaps selected up.

# 15. AFTER LANDING PROCEDURE

1	THRUST REVERSERS ——————	STOW
2	SPEEDBRAKES —	RETRACTED
3	FLAPS ————————————————————————————————————	UP
4	PITOT/STATIC ————————————————————————————————————	
5	ANTI-ICE —	———— AS REQUIRED
6	TAXI LIGHT ————————————————————————————————————	ON
7	LANDING LIGHT ————————————————————————————————————	LH and RH OFF
8	ANTI-COL lights	GND REC
IF AP	PU NOT USED FOR APPROACH	
9	APU MASTER ——————	ON
10	APU GENERATOR ————————————————————————————————————	———— CHECK ON
11	APU BLEED AIR ———————	ON

### 16. PARKING

1	PARKING BRAKE ————————————————————————————————————	SET
2	TAXI and LANDING LIGHTS —————	OFF
3	ANTI-ICE —	OFF
4	L and R ENG BLD AIR	OFF
5	THROTTLES —	CUT OFF
WHEN	ENGINE FAN <10%	
6	GND REC lights ————————————————————————————————————	OFF
7	SEAT BELT LTS	OFF
8	ATC / TCAS —	———— STBY
9	CTR WING XFER	——— LH and RH OFF
10	CROSSFEED —	OFF
11	External Doors	— CLEARED TO OPEN

# 17. POWER DOWN

1	CKPT and CAB PAC ——————	OFF
2	ISOL VALVE ——————	CLOSED
3	APU BLEED AIR ———————————————————————————————————	OFF
4	APU GENERATOR ——————	OFF
5	APU ————	STOP
6	APU MASTER ———————	OFF
7	LH and RH FUEL BOOST	OFF
8	LH and RH IGNITION —————	OFF
9	External Lights —————	OFF
10	EMERG LT ————————	OFF
11	PASS OXY —	OFF
12	EICAS POWER —	OFF
13	AVIONICS POWER —————	OFF
14	STBY POWER —	OFF
15	CTR WING XEER	I H and PH OFF

### **Credits**

Pilsner, Hot Start Community Discord Procedure proofreading and editing.

Graeme, Reflected Reality Simulations

Procedure concept, authoring, and testing.

(youtube.com/c/ReflectedRealitySimulations)

Various members of Hot Start Community Discord, especially Amy, Camaïeu, Tom.

Playtesting and feedback.