

CitationJet 525

PRE-FLIGHT INSPECTION

- 1 Battery..... CONNECTED
- 2 Engine/Pitot Covers REMOVED
- 3 Documents ABOARD
- 4 Fire Extinguisher CHARGED/SECURE
- 5 Headsets/Oxygen Masks ABOARD
- 6 Oxygen Quantity..... CHECK 1600 - 1800 PSI
- 7 Control Lock OFF
- 8 Landing Gear Handle DOWN
- 9 Elevator Trim TAKEOFF RANGE
- 10 Flap Handle AGREES WITH INDICATION
- 11 Circuit Breakers CHECK
- 12 Generators..... GEN (OFF if EXT PWR)
- 13 Other Switches..... OFF / NORM
- 14 Throttles OFF
- 15 Battery Disconnect..... BATT DISC
- 16 Battery Switch..... BATT (NO VOLTAGE)
- 17 Battery Disconnect..... NORM (24 VOLTS MIN)
- 18 Fuel Quantity CHECK
- 19 Engine Anti-ice CHECK 30 SEC
- 20 Pitot & Static Heat CHECK 30 SEC
- 21 Landing Lights..... ON
- 22 Other Lights..... ON
- 23 Static Ports..... CLEAR / WARM
- 24 Pitot Tubes..... CLEAR / HOT
- 25 AoA Vane..... FREE / HOT
- 26 Pylon Inlets..... WARM
- 27 Lights..... ALL CHECKED / OFF
- 28 Battery Switches..... OFF
- 29 External Doors..... SECURE
- 30 External Walkaround Checks..... COMPLETE
- 31 Emergency Exit SECURE
- 32 Passenger Seats..... UPRIGHT / OUTBOARD
- 33 Door Entry Light OFF
- 34 Lighted Exit Placards SECURE
- 35 Oxygen Control Valve CHECK NORMAL
- 36 Oxygen Masks..... CHECK / STOWED
- 37 Standby Gyro Switch TEST / CHECK GREEN
- 38 Standby Gyro ON / CHECK AMBER
- 39 Battery Switch..... BATT
- 40 Battery Voltage 24V MINIMUM
- 41 AVIONIC POWER Switch ON
- 42 ATIS/Clearance/Flight Plan CHECK
- 43 Rotary Test Switch..... CHECK
- 44 Radar..... OFF / STBY
- 45 Battery Switch..... EMER / CHECK / BATT
- 46 AVIONIC POWER Switch OFF
- 47 FUEL BOOST Pumps..... NORM
- 48 Fuel Transfer..... OFF
- 49 LH GYRO Slave AUTO
- 50 Parking Brake SET
- 51 WINDSHIELD BLEED AIR OFF

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TAXI

- 1 Flight Controls..... FREE & CORRECT
- 2 Thrust Attenuators..... CHECK / AUTO
- 3 Brakes CHECK
- 4 Flight Instruments CHECK
- 5 Elevator Trim CHECK DISC / SET
- 6 Flaps..... CHECK

BEFORE TAKEOFF

- 1 Anti-Ice CHECK IF REQ.
- 2 Passenger Seats..... UPRIGHT / OUTBOARD
- 3 Cockpit Air Distribution..... AS REQ.
- 4 Air Source Selector..... BOTH
- 5 Flaps SET
- 6 Trim..... SET
- 7 Thrust Attenuator Switch..... AUTO
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- 8 Ignition ON
- 9 Pitot & Static Heat ON
- 10 Anti-Ice AS REQ.
- 11 Anti-Collision Lights..... ON
- 12 Landing / Recog Lights AS REQ.
- 13 Radar..... AS REQ.
- 14 Annunciator Panel..... CHECK

CLIMB

- 1 Landing Gear..... UP
- 2 Flaps UP
- 3 Ignition NORM / AS REQ.
- 4 Climb Power SET
- 5 Engine Sync..... AS REQ.
- 6 Yaw Damper AS REQ.
- 7 Passenger Signs AS REQ.
- 8 Anti-Ice AS REQ.
- 9 Lights..... AS REQ.
- 10 Pressurization CHECK
- 11 Oxygen Control Valve NORMAL
- 12 Altimeters SET

CRUISE

- 1 Cruise Power SET
- 2 Anti-Ice AS REQ.
- 3 Cockpit Air Distribution..... AS REQ.

DESCENT

- 1 Defog Systems..... AS REQ.
- 2 Pressurization SET
- 3 Anti-Ice AS REQ.
- 4 Throttles AS REQ.
- 5 Altimeters SET
- 6 Landing Data..... CONFIRM
- 7 Lights..... AS REQ.

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APPROACH / IN-RANGE

- 1 Seats / Seat Belts / Harnesses.....SECURE
- 2 Avionics / Flight InstrumentsCHECK
- 3 Radio Altimeter.....SET
- 4 Passenger SignsPASS SAFETY
- 5 Passenger Seats.....UPRIGHT / OUTBOARD
- 6 Approach Briefing.....COMPLETE
- 7 Fuel Crossfeed/TransferOFF
- 8 Engine Sync.....OFF
- 9 Thrust Attenuator Switch.....AUTO
- 10 AntiskidON
- 11 Landing Lights.....ON
- 12 Annunciator Panel.....CHECK
- 13 PressurizationCHECK
- 14 FlapsSET

BEFORE LANDING

- 1 IgnitionON
- 2 Landing Gear.....DOWN / LOCKED
- 3 FlapsLAND
- 4 PressurizationCHECK
- 5 Autopilot / Yaw DamperOFF
- 6 Approach.....STABLE

AFTER LANDING

- 1 FlapsUP
- 2 IgnitionNORM
- 3 Pitot & Static HeatOFF
- 4 Lights.....AS REQ.
- 5 Anti-IceAS REQ.
- 6 Radar.....OFF / STBY

SHUTDOWN

- 1 TransponderOFF / STBY
- 2 Parking BrakeSET / CHOCKED
- 3 Defog FanOFF
- 4 Air ConditioningOFF
- 5 FlapsUP / TAKEOFF & APPROACH
- 6 Standby Gyro SwitchOFF
- 7 Standby GyroCAGE
- 8 Passenger SignsOFF
- 9 Exterior LightsOFF
- 10 Avionics and Inverter Switches.....OFF
- 11 Engines.....SHUT DOWN
- 12 BeaconOFF
- 13 Battery Switch.....OFF
- 14 Control LockENGAGE UNLESS TOWED
- 15 Engine Oil.....CHECK 10 MINUTES
- 16 Engine/Pitot/Static CoversINSTALL

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PRE-FLIGHT INSPECTION (CONT.)

- 52 ANTISKID Switch.....ON
- 53 Standby GyroUNCAGED
- 54 Engine Warning Indicators.....NO FLAGS
- 55 Air ConditionerOFF
- 56 AIR SOURCE SELECTAS REQ.
- 57 TEMPERATURE SELECT.....AUTO
- 58 RH GYROSLAVE
- 59 Throttles.....CHECK OFF
- 60 Thrust Attenuator Switch.....AUTO
- 61 Engine Synchronizer.....OFF
- 62 All Other SwitchesOFF / NORM
- 63 External PowerCONNECTED IF REQ.
- 64 Battery / Standby Gyro SwitchesAS REQ

BEFORE START

- 1 Pre-flight InspectionCOMPLETE
- 2 Wheel ChocksREMOVED
- 3 Cabin Door.....CLOSE / LOCK
- 4 Passenger BriefingCOMPLETE
- 5 Seats/Belts/Harnesses/PedalsSECURE
- 6 Fuel QuantityCHECKED
- 7 BeaconON
- 8 Air ConditioningOFF

ENGINE START

- 1 TransponderALT
- 2 Lights.....AS REQ.
- 3 Start Button.....PRESS / CHECK LIGHT
- 4 Throttle.....IDLE AT 8% N2, AND N1
- 5 ITTMONITOR
- 6 Engine InstrumentsCHECK
- 7 Fuel, Oil, Hyd AnnunciatorsCHECK
- 8 Other Engine.....REPEAT PROCEDURE
- 9 External PowerCHECK CLEAR
- 10 Generators.....GEN
- 11 DC ElectricalCHECK
- a LH Gen.....OFF / CHECK / 29V
- b RH GenOFF / CHECK / 24V
- c Generators.....GEN / 29V / PARALLELED
- d Battery Switch.....OFF / CHECK / BATT / 29V

BEFORE TAXI

- 1 Air Conditioning, Fans, Temp.....AS REQ.
- 2 Lights.....AS REQ.
- 3 AVIONIC POWER SwitchON
- 4 AC INV Switch.....CHECK 1 & 2
- 5 Passenger SignsPASS SAFETY
- 6 PressurizationAUTO / SET DEST ALT +200
- 7 ATIS / Clearance / FMS / ChartsCHECK
- 8 Takeoff Data / Briefing / AvionicsCONFIRM
- 9 TransponderALT

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QUICK TURN

- 1 Standby Gyro ON / CHECK AMBER
- 2 Battery Switch BATT
- 3 Battery Voltage 24V MINIMUM
- 4 External Power CONNECTED IF REQ
- 5 Generators GEN (OFF if EXT PWR)
- 6 AVIONIC POWER Switch ON
- 7 Rotary Test Switch AOA / OFF
- 8 AVIONIC POWER Switch OFF
- 9 FUEL BOOST Pumps NORM
- 10 All Other Switches OFF / NORM
- 11 Parking Brake SET
- 12 Control Lock OFF
- 13 Landing Gear Handle DOWN
- 14 Landing Gear Lights CHECK
- 15 Standby Gyro UNCAGED
- 16 Engine Warning Indicators NO FLAGS
- 17 Throttles CHECK OFF

GO AROUND

- 1 Throttles SET GO-AROUND THRUST
- 2 Pitch +10 / FD GA MODE
- 3 Flaps TAKEOFF & APPROACH
- 4 Climb Speed V_{app}
- 5 Landing Gear UP (POSITIVE RoC)
- 6 Flaps UP
- 7 Throttles MCT

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SIMPLIFIED TAKEOFF PERFORMANCE			
Weight	≤10,400 lbs	≤10,000 lbs	≤9,400 lbs
Field Elevation	≤2,000 ft	≤3000 ft	≤5000 ft
Ambient Temp	11-30 °C	11-30 °C	11-30 °C
V ₁	108	106	103
V _r	108	106	103
V ₂	110	108	104
SE Climb	126	123	119
Takeoff N1	95.9%		
SE Climb N1	91.8%		

MAX CLIMB N1 % (STD CONDITIONS)											
	Pressure Alt *1000 (Shaded is ISA+0, blanks are same as last column)										
°C	SL	5	10	15	20	25	30	35	37	39	41
50	87.0										
45	88.6										
40	90.0										
35	91.2										
30	92.3										
25	93.4										
20	94.3										
15	95.2										
10	95.8	95.9									
5	95.0	96.6									
0	94.1	97.3									
-5	93.3	97.8	97.8								
-10	92.5	98.4	98.4								
-15	91.6	98.0	98.8	98.8							
-20	90.7	97.1	99.2	99.2							
-25	89.8	96.1	99.6	99.6	99.6						
-30	88.8	95.2	99.9	99.9	99.9						
-35	87.9	94.2	100.2	100.2	100.2	100.2					
-40	86.9	93.2	100.4	100.4	100.4	100.4					
-45	85.9	92.2	100.7	100.7	100.7	100.7	100.7				
-50	84.9	91.2	100.7	100.7	100.7	100.7	100.7				

MAX RATE CLIMB V _y										
ft*1000	SL	5	10	15	20	25	30	35	41	
Speed	188	187	182	177	169	161	157	150	140	

CRUISE CLIMB								
ft*1000	SL	25	30	35	37	39	41	
Speed	220	220	200	180	160	150	140	

SIMPLIFIED APPROACH SPEEDS						
Weight	7,000	8,000	8,700	9,300	9,700	10,400
V _{app} (15°)	98	105	109	113	115	119
V _{ref} (Full)	92	98	102	16	108	112

See Performance Manual for data when Anti-Ice, contaminated runways, or non-standard conditions are anticipated.