

# 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 Instruments .....CHECK
- 3 Radio Altimeter..... SET
- 4 Passenger Signs .....PASS SAFETY
- 5 Passenger Seats..... UPRIGHT / OUTBOARD
- 6 Approach Briefing.....COMPLETE
- 7 Fuel Crossfeed/Transfer ..... OFF
- 8 Engine Sync..... OFF
- 9 Thrust Attenuator Switch.....AUTO
- 10 Antiskid .....ON
- 11 Landing Lights.....ON
- 12 Annunciator Panel..... CHECK
- 13 Pressurization ..... CHECK
- 14 Flaps ..... SET

## BEFORE LANDING

- 1 Ignition .....ON
- 2 Landing Gear.....DOWN / LOCKED
- 3 Flaps ..... LAND
- 4 Pressurization ..... CHECK
- 5 Autopilot / Yaw Damper ..... OFF
- 6 Approach.....STABLE

## AFTER LANDING

- 1 Flaps ..... UP
- 2 Ignition .....NORM
- 3 Pitot & Static Heat ..... OFF
- 4 Lights.....AS REQ.
- 5 Anti-Ice .....AS REQ.
- 6 Radar..... OFF / STBY

## SHUTDOWN

- 1 Transponder ..... OFF / STBY
- 2 Parking Brake .....SET / CHOCKED
- 3 Defog Fan ..... OFF
- 4 Air Conditioning ..... OFF
- 5 Flaps ..... UP / TAKEOFF & APPROACH
- 6 Standby Gyro Switch ..... OFF
- 7 Standby Gyro ..... CAGE
- 8 Passenger Signs ..... OFF
- 9 Exterior Lights ..... OFF
- 10 Avionics and Inverter Switches..... OFF
- 11 Engines.....SHUT DOWN
- 12 Beacon ..... OFF
- 13 Battery Switch..... OFF
- 14 Control Lock .....ENGAGE UNLESS TOWED
- 15 Engine Oil.....CHECK 10 MINUTES
- 16 Engine/Pitot/Static Covers ..... INSTALL

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## PRE-FLIGHT INSPECTION (CONT.)

- 52 ANTISKID Switch.....ON
- 53 Standby Gyro ..... UNCAGED
- 54 Engine Warning Indicators ..... NO FLAGS
- 55 Air Conditioner ..... OFF
- 56 AIR SOURCE SELECT .....AS REQ.
- 57 TEMPERATURE SELECT.....AUTO
- 58 RH GYRO .....SLAVE
- 59 Throttles.....CHECK OFF
- 60 Thrust Attenuator Switch.....AUTO
- 61 Engine Synchronizer..... OFF
- 62 All Other Switches .....OFF / NORM
- 63 External Power ..... CONNECTED IF REQ.
- 64 Battery / Standby Gyro Switches .....AS REQ

## BEFORE START

- 1 Pre-flight Inspection .....COMPLETE
- 2 Wheel Chocks ..... REMOVED
- 3 Cabin Door.....CLOSE / LOCK
- 4 Passenger Briefing .....COMPLETE
- 5 Seats/Belts/Harnesses/Pedals .....SECURE
- 6 Fuel Quantity .....CHECKED
- 7 Beacon .....ON
- 8 Air Conditioning ..... OFF

## ENGINE START

- 1 Transponder .....ALT
- 2 Lights.....AS REQ.
- 3 Start Button..... PRESS / CHECK LIGHT
- 4 Throttle.....IDLE AT 8% N2, AND N1
- 5 ITT ..... MONITOR
- 6 Engine Instruments .....CHECK
- 7 Fuel, Oil, Hyd Annunciators .....CHECK
- 8 Other Engine.....REPEAT PROCEDURE
- 9 External Power ..... CHECK CLEAR
- 10 Generators..... GEN
- 11 DC Electrical ..... CHECK
- a LH Gen..... OFF / CHECK / 29V
- b RH Gen ..... OFF / 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 Switch .....ON
- 4 AC INV Switch.....CHECK 1 & 2
- 5 Passenger Signs .....PASS SAFETY
- 6 Pressurization ..... AUTO / SET DEST ALT +200
- 7 ATIS / Clearance / FMS / Charts .....CHECK
- 8 Takeoff Data / Briefing / Avionics ..... CONFIRM
- 9 Transponder .....ALT

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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<sub>app</sub>
- 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 <sub>1</sub>	108	106	103
V <sub>r</sub>	108	106	103
V <sub>2</sub>	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 <sub>y</sub>									
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 <sub>app</sub> (15°)	98	105	109	113	115	119
V <sub>ref</sub> (Full)	92	98	102	16	108	112

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