

LIMITATIONS

CE-525 (thru SN 359)

Weights, lbs

Ramp	10,500
Takeoff	10,400
Landing	9,700
Zero Fuel	8,400
Baggage, Nose	400
Baggage, Aft	100
Baggage, Tail	300
BEW, Typical	6,500

Speeds, kts

V _{mo} to FL305	263
M _{mo}	.71
V _a 7000 lbs @ SL	154
V _a 10,400 @ FL380	217
Turbulent Air	180
Flaps 15 (TO & APR)	200
Flaps 35 (Land)	161
Gear (ALL)	186
V _{mcg}	95
V _{mca}	92
Tire Ground (Mains)	165
Autopilot	V _{mo} /M _{mo}

Takeoff, Landing, Ground

Max Altitude	14,000
Water/Slush, demonstrated	.75
Max Temp	ISA+39c
Min Temp	-53c
Max Tailwind	10
Starter 3 in 30 min, 30 sec. rest	
Generator Load	300
(More than 15 min, 250 amps)	
Battery (NICAD)	3 per hour
Tire pressure, Nose	120
“ “ Mains	98
Speed Brakes Retracted by 50 ft	
P/S heat on the ground	2 min

Enroute

Max Altitude	FL 410
Max Temp	7°C at FL360 to 62°C at SL
Max Generator Load	300 amps
Min Autopilot, GS coupled	See AFM

Powerplant

N1	104.4
N2	99.3
ITT (Normal Start)	1000
ITT Take-Off (5 min)	820
ITT Climb / Cruise	796
ITT Idle	620
Thrust (ISA, TO, 5 min)	1900
Bypass Ratio	3.3
Max time to light off	10 secs.
Max altitude for BAT Start	10,000 ft
Oil consumption	.023 gal/hr = 1 qt/10 hrs
Tailwind/Crosswind Start	10/12
(Attn's in "AUTO" if t'wind within 30°	

Fuel

Quantity	3200
Fuel Level Low	170
Fuel Pres Low	5 psi
Prist (or similar additive)	req'd

Environmental

Max Design Cabin Alt.	8000 ft
Cabin Altitude Warning	10000 ft
Altitude Limiters (+/- 1500)	13000 ft
Masks Auto-Drop (+/- 600)	13500 ft
Max Cabin Differential	8.5

For training purposes only.
See AFM for aircraft specific information
Arizona Type Ratings,
Mitch Ange 602-284-2420

LIMITATIONS

CJ1 (SN 360 thru 599)

Weights, lbs

Ramp	10,700
Takeoff	10,600
Landing	9,700
Zero Fuel	8,400
Baggage, Nose	400
Baggage, Aft	100
Baggage, Tail	300
BEW, Typical	6,600

Speeds, kts

Vmo to FL305	263
Mmo	.71
Va 7000 lbs @ SL	154
Va 10,400 @ FL380	217
Turbulent Air	180
Flaps 15 (TO & APR)	200
Flaps 35 (Land)	161
Gear (ALL)	186
Vmcg	95
Vmca	92
Tire Ground (Mains)	165
Autopilot	Vmo/Mmo

Takeoff, Landing, Ground

Max Altitude	14,000
Water or Slush	.75
Max Temp	ISA+39c
Min Temp	-53c
Max Tailwind	10
Starter 3 in 30 min, 60 sec. rest	
Generator Load	250/300
Battery (NICAD)	3 per hour
Tire pressure, Nose	120
“ “ Mains	98
Speed Brakes Retracted by	50 ft

Enroute

Max Altitude	FL 410
Max Temp	7°c at FL360 to 62°c at SL
Max Generator Load	300 amps
Min Autopilot, GS coupled	See AFM

Powerplant FJ44-1A

N1	104.4
N2	99.3
ITT (Normal Start)	1000
ITT Take-Off (5 min)	820
ITT Climb / Cruise	796
ITT Idle	620
Thrust (ISA, TO, 5 min)	1900
Bypass Ratio	3.3
Max time to light off	10 secs.
Max altitude for BAT Start	10,000 ft
Oil consumption .023 gal/hr =	1 qt/10 hrs
Tailwind/Crosswind Start	10/12 kts

Fuel

Quantity	3200
Fuel Level Low	170
Fuel Pres Low	5 psi

Environmental

Max Design Cabin Alt.	8000 ft
Cabin Altitude Warning	10000 ft
Altitude Limiters (+/- 1500)	13000 ft
Masks Auto-Drop (+/- 600)	13500 ft
Max Cabin Differential	8.5

Hyd Press on 10 to 30 min, not limiting

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Arizona Type Ratings,

Mitch Ange 602-284-2420

LIMITATIONS

Weights, lbs

Ramp	10,800
Takeoff	10,700
Landing	9,900
Zero Fuel	8,400
Baggage, Nose	400
Baggage, Aft, if applicable	100
Baggage, Tail	300
BEW (T7FRA, # 628)	6,824

Speeds, kts

Vmo to FL 305	263
Mmo above FL 293	.71
Va 7000 lbs @ SL	154
Va 10,400 @ FL380	217
Turbulent Air	180
Flaps 15 (TO & APR)	200
Flaps 35 (Land)	161
Vle and Vlo (extend)	186
Vlo (retract)	175
Vmcg	95
Vmca	92
Tire Ground Speed (Mains)	165
Autopilot	Vmo/Mmo

Takeoff, Landing, Ground

Max Altitude	10,000
Water/Slush (Demonstrated)	.75
Max Temp	ISA+39c
Min Temp	-53c
Max Tailwind	10
Starter	3 in 30 min, 60 sec. rest
Generator Load to FL 350	300
“ “ , Ground	210
Battery (NICAD)	3 starts / hour
Tire pressure, Nose	120
“ “ Mains	103
Speed Brakes Retracted by	50 ft
P/S heat on the ground	2 min

CJ1+ (SN 600 on)

Enroute

Max Altitude	FL 410
Max Temp	7°c at FL360 to 62°c at SL
Max Generator Load to FL 350:	300
“ Above FL 350:	250
Min Autopilot Altitude GS coupled =	71'
“ Enroute =	1000', Nonprecision = 250'
Max Altitude, Flaps and Gear	18,000 ft

Powerplant, FJ44-1AP

N1	102.6
N2	100.0
ITT (Normal Start)	1000
ITT Take-Off (5 min)	855
ITT Climb / Cruise	835
ITT Idle	620
Thrust (ISA, TO, 5 min)	1960
Bypass Ratio ??	3.3
TBO	3500
Max time to light off	10 secs.
Max altitude for BAT Start	10,000 ft
Oil consumption .023 gal/hr =	1 qt/10 hrs
Tailwind, Start	10 kts
Crosswind, Start	12 kts
Min Oil Temp, Start	-30° C

Fuel

Quantity	3200
Fuel Level Low	170 lbs
Imbalance	200 lbs

Environmental

Max Design Cabin Alt.	8000 ft
Cabin Altitude Warning	10000 ft
Altitude Limiters (+/- 1500)	13000 ft
Masks Auto-Drop (+/- 600)	13500 ft
Max Cabin Differential	8.5
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Arizona Type Ratings,
Mitch Ange 602-284-2420

LIMITATIONS,

CJ2 (SN 1 thru 299)

Weights, lbs

Ramp	12,500
Takeoff	12,375
Landing	11,500
Zero Fuel	9,300
Opt. ZFW	NA
Baggage, Nose	400
Baggage, Aft	NA
Baggage, Tail	600
BEW, Typical	7700

Speeds, kts

Vmo to 8000 feet	260
Vmo 8000 ft to FL 293	275
Mmo	.720
Va 8500 lbs @ SL	164
12,375 lbs @ FL350	235
Turbulent Air	185
Flaps 15 (TO & APR)	200
Flaps 35 (Land)	161
Gear (Extended) Vle	275
Gear (Extending) Vlo	250
Gear (Retracting) Vlo	200
Vmcg	
Vmca	
Tire Ground (Mains)	165
Autopilot	Vmo/Mmo

Takeoff, Landing, Ground

Max Altitude	14,000
Water/Slush/Snow	.25/.3/1
Max Temp	ISA + 39C
Min Temp	-33C
Max Tailwind	10 kts
Starter 3 starts/30 min, 60 sec rest	
Generator Load	250 amps
Battery (NICAD)	3 starts/hr
Tire pressure, Nose	120
“ “ Mains	135
P/S heat on the ground	2 min

Enroute

Max Altitude	FL450
Max Temp	54 C
Max Generator Load to Fl 410	300
“ “ “ above 410	250
Min Autopilot Altitude	1000 ft

Powerplant

Nomenclature	FJ44-2C
N1	105.2
N2	98.8
ITT (Normal Start)	1000
ITT Take-Off (5 min)	820
ITT Climb	805
ITT Cruise	805
Thrust (ISA, TO, 5 min)	2400 lbs
Bypass Ratio	3.3 to 1
Tailwind/Crosswind (start)	16 kts
(Above 10,000)	0 kts

Fuel

Quantity	3960 lbs, 586 gal
Fuel Level Low	185 lbs
Fuel Pres Low	4.65 psi
Prist (or similar) required	

Environmental

Max Design Cabin Alt.	8000 ft
Cabin Altitude Warning	10,000 ft
Altitude Limiters (+/- 1500)	13,000 ft
Masks Auto-Drop (+/- 600)	13,500 ft
Max Cabin Differential	8.9 psi

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Arizona Type Ratings,
Mitch Ange 602-284-2420

LIMITATIONS,

CJ2+, 525A SN 300 and on

Weights, lbs

Ramp	12,625
Takeoff	12,500
Landing	11,500
Zero Fuel	9,300
Opt. ZFW	NA
Baggage, Nose	400
Baggage, Aft	NA
Baggage, Tail	600
BEW, Typical	7800

Speeds, kts

Vmo to 8000 feet	260
Vmo 8000 ft to FL 293	275
Mmo	.720
Va 8500 lbs @ SL	164
12,375 lbs @ FL350	235
Turbulent Air	185
Flaps 15 (TO & APR)	200
Flaps 35 (Land)	161
Gear (Extended) Vle	275
Gear (Extending) Vlo	250
Gear (Retracting) Vlo	200
Vmcg	
Vmca	
Tire Ground (Mains)	165
Autopilot	Vmo/Mmo

Takeoff, Landing, Ground

Max Altitude	FL450
Water/Slush/Snow	.25/.3/1
Max Temp	ISA + 39C
Min Temp	-33C
Max Tailwind	10 kts
Starter 3 starts/30 min, 60 sec rest	
Generator Load	250 amps
Battery (NICAD)	3 starts/hr
Tire pressure, Nose	120
“ “ Mains	135
P/S heat on the ground	2 min

Enroute

Max Altitude	FL450
Max Temp	54 C
Max Generator Load to Fl 410	300
“ “ “ above 410	250
Min Autopilot Altitude	1000 ft

Powerplant

Nomenclature	FJ44-3A-24
TBO	4000
N1	105.2
N2	98.8
ITT (Normal Start)	1000
ITT Take-Off (5 min)	820
ITT Climb	805
ITT Cruise	805
Thrust (ISA, TO, 5 min)	2490 lbs
Bypass Ratio	2.2 to 1
TBO	4000
Tailwind/Crosswind (start)	16 kts
Above 10,000	0 kts

Fuel

Quantity	3960 lbs, 586 gal
Fuel Level Low	185 lbs
Fuel Pres Low	4.65 psi

Environmental

Max Design Cabin Alt.	8000 ft
Cabin Altitude Warning	10,000 ft
Altitude Limiters (+/- 1500)	13,000 ft
Masks Auto-Drop (+/- 600)	13,500 ft
Max Cabin Differential	8.9 psi

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Arizona Type Ratings,
Mitch Ange 602-284-2420

LIMITATIONS,

Weights, lbs

Ramp	14,070
Takeoff	13,870
Landing	12,750
Zero Fuel	10,510
Baggage, Nose	400
Baggage, Aft	100
(with right side toilet only)	
Baggage, Tail	600
BEW, N63CJ, sn 64 8260	

Speeds, kts

Vmo to 8000 feet	260
Vmo 8000 ft to FL 293	278
Mmo	.737
Va 8500 lbs @ SL	155
14,000 lbs @ FL350	250
Turbulent Air	180
Flaps 15 (TO & APR)	200
Flaps 35 (Land)	161
Gear (Extended) Vle	200
Gear (Extending) Vlo	200
Gear (Retracting) Vlo	200
Vmcg	89
Vmca	87
Tire Ground (Mains)	165
Autopilot	Vmo/Mmo
With ice on airframe	180

Takeoff, Landing, Ground

Max Altitude	FL450
Water/Slush/Snow	.5/.5/2
Max Temp	ISA + 39C
Min Temp	-33C
Max Tailwind (TO & Start)	10 kts
Max Crosswind, Start	10 kts
Max time to lightoff	10 sec
Starter 3 starts/30 min, 60 sec rest	
Generator Load	200 amps
Battery (NICAD)	3 starts/hr
Min Voltage for Bat. Start	24

Arizona Type Ratings,

Mitch Ange 602-284-2420

CJ3 525B, SN 1 and on)

APU Power	800 to 1000 amps
Tire pressure, Nose	120
“ “ Mains	135
P/S heat on the ground	2 min
Min AP, after TO/GA	350 AGL
Min Coupled, nonprecision	350 AGL
Min Coupled, Precision	180 AGL

Enroute

Max Altitude	FL450
Max Temp	58° C
Max Generator Load to Fl 410	300
“ “ “ above 410	250
Min Autopilot Altitude	1000 ft

Powerplant

Nomenclature	FJ44-3A
TBO	4000
N1	102.8
N2	100
ITT (Normal Start)	1000
ITT Take-Off (5 min)	877
ITT Continuous	840
Thrust (ISA, TO, 5 min)	2820 lbs
Bypass Ratio	2.09 to 1
Tailwind/Crosswind (start)	10 kts
Min Oil Temp to start	-40° (c or f)

Fuel

Quantity	4710 lbs
Fuel Level Low	185 lbs
Fuel Pres Low	4.65 psi
Imbalance	200 lbs

Environmental

Max Design Cabin Alt.	8000 ft
Cabin Altitude Warning	10,000 ft
Altitude Limiters (+/- 1500)	13,000 ft
Masks Auto-Drop (+/- 600)	13,500 ft
Auto “EMER PRESS”	
Max Cabin Differential	8.9 psi

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See AFM for aircraft specific information.

LIMITATIONS

CJ4 525C, SN 1 and on)

Weights, lbs

Ramp	17,070
Takeoff	16,950
Landing	15,500
Zero Fuel	12,360
Baggage, Nose	400
Baggage, Tail	600
BEW, Typical	10,000

Speeds

Vno to 8000 ft	260
Vmo 8000 ft to FL 279	305
Mmo	.77
Va 10,000 lbs @ SL	141
16,950 lbs @ FL420	222
Turbulent Air	180
Flaps 15 (TO & APR)	200
Flaps 35 (Land)	161
Gear (Extended) Vle	200
Gear (Extending) Vlo	200
Gear (Retracting) Vlo	200
Vmcg	88
Vmca Flaps 0 =	94
Flaps 15 =	85
Tire Ground (Mains)	165
Autopilot Vmo/Mmo	
With ice on airframe	

Takeoff, Landing, Ground

Max Altitude	FL450
Water/Slush/Snow	.4/.5/2
Max Temp	ISA + 39C
Min Temp	-33C
Max Tailwind	10 kts
Starter 3 starts/30 min, 60 sec rest	
Generator Load: 240A Ground	
300 A below FL250 (see AFM)	
Battery (NICAD) 3 starts/hr	
Tire pressure: Nose 138L, 133U	
(+/-4) Mains 162L, 156U	
P/S heat on the ground	2 min

Enroute

Max Altitude	FL450
Max Temp	58° C
Max Generator Load to Fl 410	
“ “ “ above 410	
Min Autopilot Altitude	200 ft
	1000 enroute

Powerplant

Nomenclature	FJ44-4A
TBO	5000
N1	16,360
N2	37,450
ITT, (> 900°C 15 sec max)	1000°C
ITT Take-Off (5 min)	855°C
ITT Continuous	835°C
Thrust at stp	3621 lbs
Bypass Ratio	2.8
Tailwind/Crosswind (start)	19 kts

Fuel

Quantity	5828 lbs
Fuel Level Low	185 lbs
Fuel Pres Low	4.65 psi
Imbalance	200 lbs
Temperature	-40 to 57°C

Environmental

Max Design Cabin Alt.	8000 ft
Cabin Altitude Warning	10,000 ft
Altitude Limiters (+/- 1500)	13,000 ft
Masks Auto-Drop (+/- 600)	13,500 ft
Max Cabin Differential	9.0 psi

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Mitch Ange 602-284-2420