

COCKPIT PREPARATION

| | |
|-----------------------------------|----------------|
| circuit breakers | in |
| gen switches | on |
| battery switch | off |
| emer lights switch | armed |
| stby flt display switch | test/ on |
| battery switch | emer |
| battery switch | on |
| avionics switch | on |
| parking brake | set |
| sys test (mfd lwr menu) all items | checked |
| cockpit voice recorder | test |
| avionics switch | dispatch |
| fuel quantity | check/balanced |

DELAY START WITHOUT EXTERNAL POWER

| | |
|-------------------------|-----|
| emer lights switch | off |
| stby flt display switch | off |
| avionics switch | off |
| battery switch | off |

BEFORE STARTING ENGINES

| | |
|--|-------------|
| battery switch | on |
| emer lights switch | armed |
| stby flt display switch | on |
| avionics switch | dispatch |
| parking brake | set |
| wheel chocks | remove |
| cabin door | closed |
| seats/seat belts/ shoulder harnesses/ nest | |
| exterior lights | set |
| EICAS | check |
| Atis /clearance/ flight management system | as required |
| climate control selector | off |

STARTING ENGINE(S)

| | |
|-------------------------------|----------------|
| Throttles (both) | idle |
| engine starter button | push |
| engine run/stop button | run |
| ITT | check for rise |

ABORT if

- o itt rapidly approaches 1000°c
- o no rise within 10 seconds.
- o N1 does not indicate rotation by 25% n2.)

| | |
|-----------------|-------|
| EICAS. | check |
| avionics switch | on |

OPPOSITE ENGINE START

| | |
|---|----------------|
| engine starter button . | push |
| engine run/stop button | run |
| ITT | check for rise |
| EICAS | check |
| hydraulic pressure | check |
| external power | disconnected |
| electrical system (if both engines running) | check |

CJ4 525C0255**BEFORE TAXI**

| | |
|---|--------------------|
| INT master button | norm |
| (both engines running or battery amps <100) | norm |
| pitot/static heat buttons (both) | on/ mess clear/off |
| tcas | test |
| pass lights (belt or safety button) | on |
| trims | check/set |
| autopilot | disconnect test |
| flight controls | free/correct |
| speed brakes / ground spoilers | check |
| flaps | checked/set |
| eng anti-ice buttons | as required |
| atis/clearance. | obtain |
| altimeters (pilot, copilot, and standby) | set/ check |
| (75 feet of field elevation with local altimeter setting and within 50ft dif) | |
| flight management system | check/set |
| takeoff data | posted |
| takeoff field length and weight limits) | confirm/set |
| transponder | check/set |
| (ATC2 on if ads-b out is required) | |
| pressurization | Dest field elev |
| EICAS | check |
| avionics | check/set |
| aft divider doors | latched open |

TAXI

| | |
|--------------------|-------------|
| exterior lights | as required |
| brakes | apply/hold |
| parking brake | release |
| brakes | check |
| nosewheel steering | check |
| flight instruments | check |

BEFORE TAKEOFF

| | |
|--------------------|-------------------|
| ice protection | check |
| rudder bias system | check |
| seats | upright/ outboard |
| flaps | check/set |
| speed brakes | 0% |
| trims | 3 set for takeoff |
| crew briefing | Complete |
| TCAS | TA/ RA |
| radar | as required |
| GA button | push/ TO |
| battery amps | verify 20 or less |

******CLEARED/READYFOR TAKEOFF******

| | |
|----------------------------------|-------------|
| ice protection systems | as required |
| pitot/static heat buttons (both) | on |
| exterior lights | as required |
| EICAS | check |

TAKEOFF

| | |
|-----------------------------------|---------------|
| Throttles | TO |
| (fadec mode indicator - green TO) | |
| n1 command bugs | green chevron |

AFTER TAKEOFF/CLIMB

| | |
|----------------------------------|---------------------|
| positive rate | gear up |
| v2+10 | flaps up |
| throttles | climb detent |
| yaw damper | on |
| autopilot | as desired |
| ice protection systems | as required |
| passenger lights | as required |
| landing lights | as required |
| pressurization | check |
| altimeters (transition altitude) | set std/ crosscheck |

CRUISE

| | |
|------------------------|--------------------|
| throttles | cru or as required |
| pressurization | check |
| ice protection systems | as required |

DESCENT

| | |
|-------------------------|----------------------|
| pressurization | Dest field elevation |
| ice protection systems | as required |
| 18K | altimeters |
| cdu tune (1/2) page | check for xpdr fail |
| (if ads-b out required) | |
| exterior lights | as required |

APPROACH

| | |
|--------------------------------|------------------------------------|
| landing data & Vs speeds | posted and confirmed |
| crew briefing | complete |
| avionics/flight instruments | check |
| minimums | set |
| fuel transfer selector | off |
| exterior lights | as required |
| ice protection systems | as required |
| flaps | 15° |
| passenger briefing | complete |
| seats | upright/outboard |
| seat belts/ shoulder harnesses | adjusted/secure |
| pass lights safety button | on |
| EICAS | check |
| pressurization | differential< 0.5 psi by touchdown |
| pass lights | belts or safety on |

BEFORE LANDING

| | |
|--------------------------|----------------|
| landing gear . . | down (3 green) |
| flaps | 35° |
| speedbrakes | 0% |
| airspeed | vref |
| autopilot and yaw damper | disengage |

ALL ENGINE GO-AROUND

| | |
|--------------------------------|----------------------------------|
| GA button | push |
| throttles | TO |
| pitch attitude. | 7.5° initially, then as required |
| (use flight director ga mode) | |
| flaps | 15° |
| landing gear (positive climb) | up |
| flaps | as required |
| (for flaps 0° - vapp+10 knots) | |
| airspeed | as required |
| throttles | as required |
| yaw damper | on |
| autopilot | as desired |

AFTER LANDING

| | |
|----------------------------------|-------------|
| speedbrakes. | 0% |
| flaps | 0° |
| ice protection systems | |
| pitot/static heat buttons (both) | off |
| wing/eng anti-ice buttons (both) | off |
| eng only anti-ice buttons (both) | as required |
| tail deice buttons (both). | off |
| radar. | standby |
| exterior lights | as required |

SHUTDOWN

| | |
|---|--------------------|
| parking brake | set/wheels chocked |
| emergency lights switch | off |
| stby fit display switch | off |
| avionics switch | off |
| ice protection systems (all). | off |
| throttles | idle 2min |
| engine run/stop buttons (both) | stop |
| exterior lights | off |
| battery switch | off |
| control lock | as required |
| engine oil level | check |
| engine covers (after engines have cooled) | install |

TURBULENT AIR PENETRATION

flight through severe turbulence should be avoided. the following procedure is recommended if severe turbulence is encountered.

- airspeed approximately 180 kias (do not chase airspeed)
- maintain a constant attitude without chasing altitude. avoid sudden large control movements.
- operation of autopilot is recommended in basic modes only (rol and pit).
- pass lights safety button on

EXPANDED PREFLIGHT PROCEDURES

EMER BUS ITEMS

- landing gear indicator lights
- audio panels
- trims:
 - aileron trim
 - rudder trim
 - primary and secondary elevator trim
- flap indicator
- flood lights
- pfd1
 - adc1
 - ahrs1
- dcp1
- cdu1
 - com1 and nav1
 - xpdr1

ELECTRICAL CHECK

L GEN switch

- l gen amps verify o amp
- r gen amps verify increase
- amber dc generator off L displayed

R GEN switch

- l gen amps verify o amp
- r gen amps verify o amp
- red or amber dc generator off l-r displayed
- red ac-dc converter fail may be displayed

AFTER 30 SECONDS:

- battery amps verify positive
- red ac-dc converter fail not displayed
- amber windshield heat fail r displayed
- amber taws gpws fail displayed
- amber taws wind shear fail (if installed) displayed
- amber efis compare fail displayed
- amber dc generator off l-r displayed

L GEN switch

- l gen amps. verify positive
- r gen amps verify o amps
- amber windshield heat fail r not displayed
- amber taws gpws fail not displayed
- amber taws windshear fail not displayed
- amber efis compare fail not displayed
- amber dc generator off l not displayed
- amber dc generator off r displayed

R GEN switch

- l and r gen amps verify positive and matched
- amber dc generator off r not displayed

BATTERY switch

- battery amps verify o amp
- verify all systems and displays remain on.

BATTERY switch

- battery amps verify positive

TRIM CHECKS

AILERON TRIM

- move individually stops movement
- move together correct movement in each direction.
- AP trim disc stops movement

RUDDER TRIM

- push rudder trim knob down and turn both ways correct tab movement & direction.

- AP trim disc button stops movement

ELEVATOR TRIM

- each half of pilot trim switch no tab movement.
- move both pilot trim switch halves together correct trim movement each direction.
- AP trim disc button stops movement.

Copilot trim switch and ap trim disc button

Enable secondary elev trim

- movement stops
- amber PRIMARY ELEVATOR TRIM FAIL. secondary elev trim half switch no tab movement. secondary elev trim switch both halves correct tab movement
- disable secondary elev trim, verify enable button light extinguishes
- amber PRIMARY ELEVATOR TRIM FAIL message clears.

ICE PROTECTION CHECKS

| | |
|--|-----------------------------------|
| Throttles | 70% n2 |
| WING/ENG ANTI-ICE buttons | on |
| • Cyan WING/ENG ANTI-ICE ON | illuminate |
| • WING ANTI-ICE COLD L-R, | displayed & (clear within 60 sec) |
| • ENGINE ANTI-ICE COLD L-R | displayed & (clear within 60 sec) |
| ○ Clear stubborn COLD messages with 80% N2 | |
| WING/ENG ANTI-ICE buttons (both) | off |
| throttles | as required |
| TAIL DEICE buttons (both) | on |
| • cyan tail de-ice on message | displayed |
| • amber TAIL DE-ICE FAIL message | not displayed |
| TAIL DEICE buttons (both) | off |

RUDDER BIAS SYSTEM

Throttle 50% n1.

- Same side rudder moves forward.

| | |
|----------|-------|
| Emty | 10066 |
| MZFW | 12500 |
| MLW | 15660 |
| MTOW | 17110 |
| MRW | 17230 |
| Max fuel | 5828 |