

Factual Report – Attachment 17
CAE Lear 35A Checklists

OPERATIONAL FACTORS

CEN17MA183

PF . . . Pilot Flying. The pilot responsible for controlling the aircraft.
Performs tasks and responds to checklist challenges.

PM . . . Pilot Monitoring. Reads checklist challenges.

♦ . . . Through flight items

Upon entering the cockpit, the following switch positions should be verified before starting any check.

PM	PF
Start-Gen Switches	OFF
Gear Switch	DOWN
Fuel Jettison	OFF

Accomplish flow pattern checks, then use the *BEFORE STARTING ENGINES* checklist as a done list.

BEFORE STARTING ENGINES

Cabin Air Damper Knob/Switch	AS DESIRED
Emergency Exit	AISLE CLEARED/HANDLE UNOBSTRUCTED
♦ Oxygen Masks/Valves/Pressure	100% CHECKED
♦ Circuit Breakers	CHECKED
♦ Control Lock	STOWED
♦ Seat Belts/Harness/Seats	SECURED/ADJUSTED
♦ Flight Controls	CHECKED
♦ Audio Panel	CHECKED
♦ Alternate Static Source Switch	BOTH OR CLOSED
♦ Avionics Master	OFF
♦ Fuel Computers	ON
♦ Emergency Batteries	CHECKED/AND ON
♦ Batteries	CHECKED/AND ON
♦ GPU (if desired)	CONNECTED/28 VDC
♦ Inverters	CHECKED/AND ON
♦ In Normal/Out Defog Knob (if installed)	IN
♦ Anti-Skid	ON
♦ Emergency Air (1,800 PSI min)	CHECKED
♦ Hydraulic Pressure (1,000 PSI min)	CHECKED
♦ Parking Brake	SET
♦ EMER Brake	PULL/CHECKED

NOTE: Do not push handle downward.

♦ Hydraulic Pump Switch	OFF
♦ Warning Lights	TESTED
♦ Landing Gear Switch/Warning	DOWN/TESTED
♦ Fire Detect System	CHECKED
♦ Fuel Balance/Quantities	CHECKED
♦ Fuel Counter	ZERO
♦ Jet Pumps	ON
♦ Standby Pumps	CHECKED
♦ Crossflow/XFER-FILL/FUS VAL Switches	CLOSE/OFF/CLOSE
♦ If External Power Not Used	START ONE ENGINE

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PM	PF
Warning System Checks	COMPLETED
♦ No Smoking/Seat Belt Sign	ON
♦ Cabin Air	OFF
♦ Pressurization	AUTO/ALTITUDE/RATE SET
♦ Temp Controls	AS DESIRED
♦ Bleed Air Switches	ON
♦ Emer Pressurization Switches (if installed)	GUARD DOWN
♦ TOLD Data/Bugs	COMPUTED/SET
♦ Ice Detect Lights	CHECKED
♦ Emergency Gyro	UNCAGED
♦ CVR (if installed)	TEST
♦ Drag Chute Handle	STOWED
♦ Trim/Pitch, Roll, Yaw/Switch	CHECKED/SET/PRIMARY
♦ Autopilot	CHECKED
♦ Yaw Dampers	CHECKED
♦ Emer Lt Switch (if installed)	TESTED/ARMED
♦ Avionics/Avionics Master	ON
♦ Radar	STANDBY
♦ Radio Altimeter	ON
♦ UNS	ON/PROGRAMMED
♦ GPWS	TESTED
♦ TCAS	TESTED AND ON

STARTING ENGINES

♦ Passengers/Baggage	BRIEFED/SECURED
♦ Cabin Door	TWO HANDLES FORWARD/LIGHT OUT
♦ L/R Fuel Cmptrs	ON/Lights Out
♦ Batteries	CHECKED FOR MIN VOLTAGE
♦ Inverters	ON
♦ Air Conditioning/Aux Heat	FAN or OFF
♦ Rotating Beacon	ON
♦ External Lighting	AS REQUIRED
♦ Thrust Levers	CUTOFF
♦ Parking Brake	SET
♦ Hydraulic Pump Switch	OFF
♦ Engines	START
♦ Starter Disengagement	CHECKED
♦ Engine Instruments	CHECKED
♦ GPU	DISCONNECTED
♦ Generators/DC Volts and Amps	ON/CHECKED
♦ Current Limiters	CHECKED

BEFORE TAXI

PM	PF
Fuel Control Governors	CHECKED
Windshield Heat	PURGED
Anti-Skid	ON/LIGHTS EXTINGUISHED
Spoileron/Spoilers	CHECKED/RET
Flaps (8° or 20°)	SET
Hydraulic Pressure/Low Hydraulic Light	CHECKED
Lighting	ON/AS REQUIRED
Coffee/Oven	ON
Circuit Breakers	CHECKED IN
Parking Brake	RELEASED

TAXI

Brakes and Steering	CHECKED/ENGAGED
Thrust Reversers	CHECKED
Flight Controls	CHECKED
Flight Instruments	NO FLAGS/ALT/HEADING/VERIFIED
NAV Equipment/Radios	ON/SET
Spoilers/Flaps/Trim	RETRACTED/8° or 20° SET/CHECKED
Pressurization	CHECKED
Cabin Air	NORM OR ON
Anti-Ice Systems	CHECKED/AS REQUIRED
Cabin Check	COMPLETED

BEFORE TAKEOFF

Crew Briefing	COMPLETED
Fuel Balance	CHECKED
Cabin Air	NORM OR ON
Anti-Ice	AS REQUIRED
Radar	AS DESIRED
Transponder	TA/RA
Dee Howard Thrust Reversers	ARMED

RUNWAY LINE-UP

Pitot Heat	CHECKED/ON
Air Ignition	ON
Stall Warnings	ON
Parking Brake	RELEASED
Landing/Taxi Lights	ON
Recognition/Strobe Lights	ON
Steer Lock	OFF
Warning Lights	OUT OR AS APPROPRIATE

TAKEOFF

Nosewheel Steering	RELEASED AT FIRST INDICATION OF AIRSPEED
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AFTER TAKEOFF

PM	PF
Landing Gear	UP
Yaw Damp PRI or SEC	ENGAGED
Flaps	UP
Dee Howard Thrust Reversers (prior to 200 KIAS)	OFF
Anti-Ice Systems	AS REQUIRED
Air Ignition	AS REQUIRED or OFF
Landing/Taxi Lights	OFF
Pressurization	MONITORED
Autopilot APPR Light	OUT
Hydraulic Pressure	NORMAL
Angle-of-Attack Sensors	CROSS CHECK

CLIMB

At 10,000 ft:	
No Smoking/Seat Belt Sign	AS REQUIRED
At 18,000 ft or Transition Altitude:	
Altimeters	29.92
Cool/Fan Switch (if applicable)	FAN or OFF
Emer Press Switches (if installed)	NORMAL
Recognition Light	OFF
Leaving FL 250:	
Crew Masks	100% OXY, QUICK DON POSITION
At FL 350:	
Cool/Fan Switch (with FCN 89-1)	FAN or OFF
Above FL 410 (450 Pressurization System):	
Crew/Passenger Oxygen Masks	DON

CRUISE

Pressurization	MONITORED
Engine Instruments	MONITORED
Autopilot	AS DESIRED
Windshield Heat	AS DESIRED
Fuel Management	MONITORED

DESCENT

Wshld Heat/Wshld Defog/Aux Defog	AS REQUIRED
Pressurization	SET FOR LANDING
Anti-Ice Systems	AS REQUIRED

FL 180/TRANSITION LEVEL

Altimeters	SET/CROSS CHECK
Air Conditioner	AS DESIRED
Hydraulic Pressure	CHECKED
Recognition Light	ON
TOLD Card/Bugs	COMPUTED/SET
Cabin	CHECKED
Seat Belt/No Smoking Sign	ON



APPROACH

PM	PF
Circuit Breakers	CHECKED
Aeronca Thrust Reversers	TESTED
Hydraulic/Emergency Air Pressure	CHECKED
Radio/Barometric Altimeters	MINS SET/CROSS CHECK
Fuel Balance	CHECKED
Avionics	SET FOR APPROACH
Crew Briefing/Bugs	COMPLETED/SET

BEFORE LANDING

Spoilers	RETRACTED
Flaps	AS DESIRED (8° OR 20°)
Landing Gear	DOWN
Engine Sync	OFF
Anti-Skid	ON/LIGHTS EXTINGUISHED
Landing/Taxi Lights	ON
Dee Howard Thrust Reversers (below 200 KIAS)	ARMED
Cabin	CHECKED
Flaps	DOWN
Hydraulic Pressure	CHECKED
Air Ignition	ON
Autopilot	DISENGAGED
Yaw Damper (FC200)	DISENGAGED

LANDING

After Touchdown:

Spoilers	EXTENDED
Brakes	AS REQUIRED
Thrust Reversers or Drag Chute	AS DESIRED

Below 45 Kts:

Nosewheel Steering	AS REQUIRED
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GO-AROUND

Autopilot	DISENGAGED
Thrust Levers	T.O. POWER or AS REQUIRED
Spoiler Switch	RETRACTED
Flaps	20°
Landing Gear Switch	UP
Climb	APPROACH CLIMB SPEED

When Clear of Obstacles:

Airspeed	V _{REF} + 30
Flaps	UP



AFTER LANDING/CLEARING RUNWAY

PM	PF
Anti-Ice Systems	AS REQUIRED
Air Ignition	OFF
Stall Warnings	OFF
Landing/Taxi Lights	AS DESIRED
Cabin Air	OFF
Recognition/Strobe Lights	OFF
Unnecessary Avionics/Radar	OFF
UNS	OFF
Transponder	STANDBY or OFF
Spoilers	RETRACTED
Flaps	AS REQUIRED
Hydraulic Pressure	CHECKED
Trims	RESET
Dee Howard Thrust Reversers	OFF

SHUT DOWN

Chocks/Parking Brake	AS REQUIRED
Anti-Ice Systems	OFF
Emer Power/Standby Gyro	OFF/CAGED
Panel Switches/Avionics	OFF
Crossflow	CLOSED
Fus Tank XFER-FILL	OFF
Fus Valve	CLOSED
Emergency Lights (if installed)	DISARMED
Coffee and Oven	OFF
Thrust Levers	CUTOFF
External Lighting	OFF
Inverters	OFF
Generators	OFF
Hydraulic Pressure (if applicable)	ZERO
Batteries	OFF
Control Lock	INSTALLED

QUICK TURNAROUND

(ONE OR NO ENGINE SHUTDOWN)

Cabin Door-Closed and Locked	DOOR LIGHT OUT
No Smoking/Seat Belt Switch	ON
Cool Fan/Aux Heat Switches	OFF OR FAN
Engine (if shut down)	START
Start-Gen Switch	GEN
DC Volts/Amps	CHECKED
Starter Disengagement	CHECKED
Current Limiters	CHECKED
Circuit Breakers	IN
Avionics	AS REQUIRED
Coffee/Oven Switches	AS REQUIRED
Anti-Ice Systems	AS REQUIRED