



NORMAL PROCEDURE L - 1049



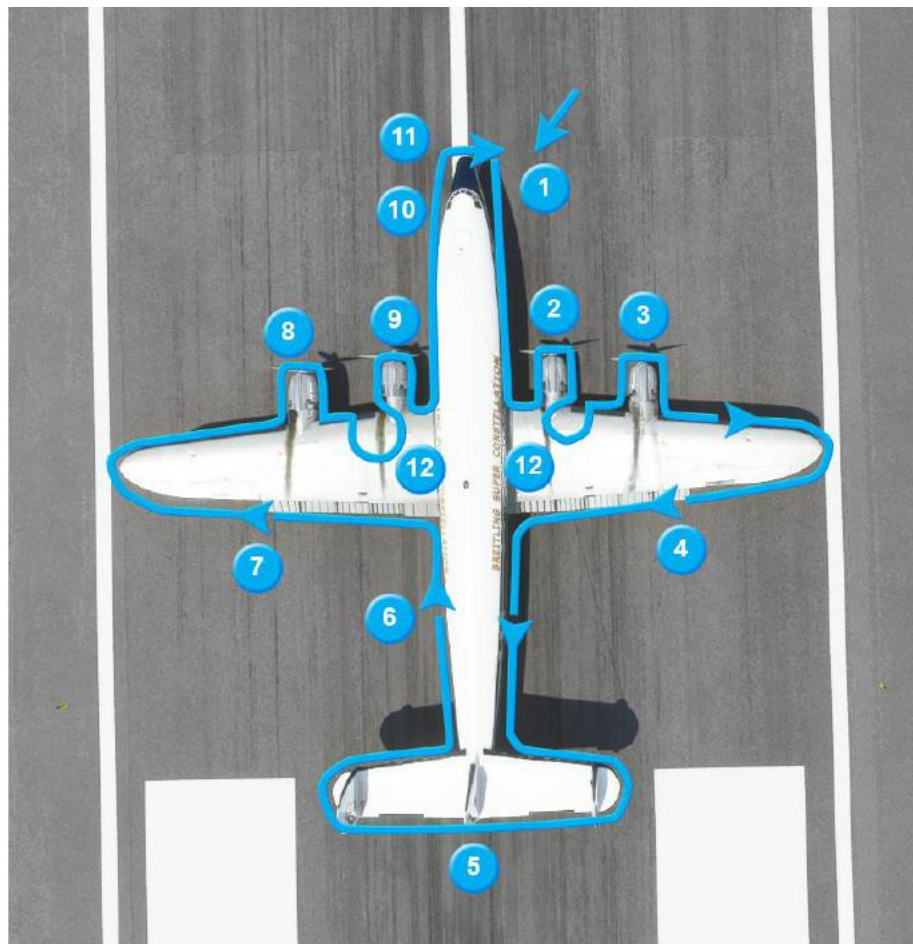
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A. PROCEDURE - SIMPLIFIED CHECKLIST

A.1. EXTERIOR INSPECTION



- | | |
|---------------------------------|----------------------------------|
| 1. FUSELAGE RIGHT SIDE | 8. OUTBOARD ENGINE |
| 2. INBOARD ENGINE AND MAIN GEAR | 9. INBOARD ENGINE AND MAIN GEAR |
| 3. OUTBOARD ENGINE | 10. FUSELAGE - LEFT SIDE FORWARD |
| 4. UNDERSIDE WING SURFACE | 11. NOSE GEAR AND WHEEL WELL |
| 5. EMPENNAGE SURFACES | 12. TOP SIDE WING |
| 6. FUSELAGE UNDERSIDE | |
| 7. UNDERSIDE WING SURFACE | |

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ABBREVIATED - CHECKLIST

P:Pilot

CP:Copilot

E: Flight Engineer

A. 2. BEFORE STARTING ENGINES - SIMPLIFIED

• CP	Remove Before Flight	CHECK CLIPBOARD
• E	Battery	ON
• E	Dome Light	ON/ WHITE
• P	Nav Lights	ON
• E	Radio And Instrument Switches	ON
• P	COM 1+2 Panel	ON
• P	Ground Frequency On Com1	SET
• P	Ask For Ground Power	MESSAGE ATC
• P	Ask To Remove All Services	CHECK CLIPBOARD
• E	Ground Power	ON
• CP	Parking Brake	CHECK SET
• P	Aileron & Rudder Boosters	ON
• P	Elevator Booster	CHECKED ON
• P	Ordinance Lights	FASTEN SEAT BELT
• P	Ordinance Lights	NO SMOKING
• P	Cabin Lights	ON
• P	Ask to Stairs	CHECK CLIPBOARD
• P	Open Main Doors	CHECK CLIPBOARD
• P	Dump Valves (tanks 1&2, 3&4)	CLOSED
• P	Emergency Cut-off Levers	ALL ON
• E	Fuel Tank Selectors 1 2 3 4	ON
• E	Cowl Flaps	OPEN
• E	Carburetor Air	COLD
• E	Oil Cooler Flaps	OPEN
• P-E	Gross Weight & CG	LBS %
----- WAIT FOR BOARDING -----		
• P-E	Fire Warning System	CHECKED
• P	Close All Doors	CHECK CLIPBOARD
• P	Remove All Stairs	CHECK CLIPBOARD
• P	Remove Chocks	CHECK CLIPBOARD
• P	Position Lights	ON
• E	Starter Engine	3
• CP	Count Six Blades Rotation	CHECKED
• P	Ignition ENG3	BOTH
• E	HYD2 to HYD1 crossfeed	CHECKED
• E	Generator 3	ON
• E	Starter Engine	4
• CP	Count Six Blades Rotation	CHECKED
• P	Ignition ENG4	BOTH
• E	Generator 4	ON
• E	Starter Engine	2
• P	Count Six Blades Rotation	CHECKED
• CP	Ignition ENG2	BOTH
• E	Generator 2	ON
• E	Starter Engine	1
• P	Count Six Blades Rotation	CHECKED
• CP	Ignition ENG1	BOTH
• E	Generator 1	ON

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A.3.DURING WARM-UP - SIMPLIFIED

1.	E	Pitot Covers & Gear Pins	REMOVED & ABOARD
2.	P	Ask for Ground Power Off	MESSAGE ATC
3.	E	Battery & Generators	CHECKED
4.	P-E	Engine Instruments	CHECKED
5.	P	Auto-pilot Gyro	CAGED and RELEASED
6.	P-CP	Radios	CHECKED

A.4.TAXIING - SIMPLIFIED

1.	P	Taxi Lights	ON & EXTENDED
2.	P-CP-E	Clock & Altimeters	SET
3.	P	Brake Selector Lever (after brake released)	NORMAL
4.	P-CP	All Turn Indicators	CHECKED
5.	E	Propeller Reversing	CHECKED
6.	E	Maintain RPM Over 1500 To Avoid Engine Vibration	

A.5.BEFORE TAKE-OFF - SIMPLIFIED

1.	E	Run-up Ignition 1 2 3 4	COMPLETED
2.	E	Run-up Feathering 1 2 3 4	COMPLETED
3.	P-CP-E	Doors & Windows	CLOSED
4.	P	Trim Tabs- (E R A)	CHECKED
5.	CP	Wing Flaps	TAKE-OFF - 60%
6.	CP	Wing Flaps Test	CHECKED
7.	CP	Aux. Control Boosters	ON
8.	E	Auto Feather	ARMED FOR TAKE-OFF
9.	P	Landing Lights	ON
10.	E	Mixtures 1234	AUTO-RICH
11.	E	Carburetor Air	COLD
12.	E	Air Conditioning	PANEL SET
13.	E	Fuel Pumps 1234	HIGH
14.	E	Oil Cooler Flaps	SET

A.6.TAKE-OFF CLEARANCE - SIMPLIFIED

1.	E	Cowl Flaps 1234	30%
2.	P	Controls	FREE
3.	P	V1 (Rotation) V2 (Takeoff)	ANNOUNCEMENT

A.7.CLIMB - SIMPLIFIED

1.	CP	Landing gear lever	UP then Neutral
2.	CP	Wing Flaps	UP
3.	CP	Aux. Control Boosters	OFF
4.	CP	Nose Lights	OFF
5.	P	Taxi Lights	RETRACT & OFF
6.	CP	Fuel Pumps 1234	LOW
7.	E	Oil Cooler Flaps	AS REQUIRED
8.	E	Auto Feathering	OFF
9.	E	Cowl Flaps	AS REQUIRED
10.	CP	Ordinance lights	OFF

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A.8.IN RANGE TRAFFIC PATTERN - BEFORE DESCENT - SIMPLIFIED

1.	P	Autopilot Servo Disconnect Levers	OFF
2.	P	Ordinance Lights	ON
3.	CP	Altimeter	SET
4.	E	Engine Superchargers	LOW
5.	E	Fuel Tank Selector 1 2A 3A 4	ON
6.	E	Tank 5 and Fuel Crossfeed Levers	CLOSED
7.	E	Cabin Pressure	SET FOR LANDING
8.	E	Landing Weight	CHECKED

A.9.BEFORE LANDING-FINAL - SIMPLIFIED

1.	P	De-Icer Boost	OFF
2.	E	Mixtures	AUTO-RICH
3.	E	Fuel Pumps 1 2 3 4	HIGH
4.	E	Carburetor Air	COLD
5.	CP	Aux. Control Boosters	ON
6.	E	Manifold	SET
7.	E	RPM	SET
8.	CP	at 180 kts or less - Flaps 60%	SET
9.	CP	at 150 kts or less - FLAPS 80%	SET
10.	CP	Landing Gear (2000 ft)	DOWN & LOCKED
11.	E	Propellers	2900 RPM
12.	P	Brakes	CHECKED & ON NORM

A.10.AFTER LANDING - SIMPLIFIED

1.	E	Cowl Flaps	OPEN - 100%
2.	E	Oil Cooler Flaps	OPEN - 100%
3.	E	Fuel Pumps 1 . 2 . 3 . 4	OFF
4.	E	Master RPM Control	FULL INC. RPM
5.	CP	Aux Control Boosters	OFF
6.	CP	Wing Flaps	UP
7.	CP	ENG 1 & 4	OFF or as req.

A.11.PARKING - SIMPLIFIED

1.	P	Brake Selector lever	EMERGENCY
2.	E	Oil dilution	As request
3.	CP	Engine 1 Ignition	OFF
4.	CP	Engine 2 Ignition	OFF
5.	CP	Engine 3 Ignition	OFF
6.	CP	Engine 4 Ignition	OFF
7.	CP	Chocks	ON
8.	P	Ordinance Lights	OFF
9.	P	Stairs	CHECKED ON
10.	P	Doors	OPEN
11.	E	Pins	ON
12.	CREW	All Unnecessary switches	OFF

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B. PROCEDURE - COMPLETE CHECKLIST

B.1. EXTERIOR ELECTRICAL "POWER ON" ENGINEER'S PREFLIGHT

1. Taxi Light	.....	ON - OFF	12. Propeller Feathered	.....	VISUAL
2. Navigation Lights	.....	ON - OFF	13. Reverse Check	.....	VISUAL
3. Leading Edge Light	.....	ON - OFF	14. Preheat Door	.....	HOT to COLD
4. Landing Light	.....	ON - OFF	15. Carburetor Alcohol	.....	ON - OFF
5. Rotating Beacon Lights	.....	ON - OFF	16. Propeller Alcohol	.....	OFF
6. Position Lights	.....	ON - OFF	17. Fuel Pressure	.....	CHECK
7. Pitot Tubes and Mast-Deice	.....	ON - OFF	18. Aftercooler Scoop Motor	.....	ON - OFF
8. Cowl Flaps...CHECK Instru. & Visual - OPEN			19. Auxiliary Vent	.....	CHECK
9. Oil Coolers	.....	CLOSED	20. Aileron and Tab	.....	FREE OF MOV
10. Propeller Decrease Check	.....	CHECK	21. Rudder and Tab	.....	FREE OF MOV
11. Propeller Increase	.....	CHECK	22. Elevator and Tab	.....	FREE OF MOV

B.2.BEFORE STARTING ENGINES

PILOTS

01. Visual Inspection	.....	COMPLETED	08. IFS And Auto Pilot Gyro SW's	.....	ON
02. Gross Weight and CG on CARD	.....	COMPLETED	09. Warning Lights	.....	CHECKED
03. Fuel And Oil Quantity	.....	CHECK	Push To Test All Lights		
04. Landing Gear Lever	.....	DOWN	Check Fire Detection Lights and Bells		
05. Autopilot Servo Disconnect Levers	....	OFF	10. Inverter Switches	.....	CHECKED
06. Brake Selector Lever EMERGENCY	....	ON	11. Hydraulic Fluid Primary & Secondary ...		FULL
07. Hand Pump Selector Lever EMERG	....	OFF	12. Generator Switches & Lights	.....	OFF
08. Emergency Brake 1000 to 16000 PSI	....	CHECK	13. De-icer and Ainti-icer Switches	.....	OFF
09. Parking Brake Lever	.....	PARK	14. Sound Trap Air Valve X2 Levers	.....	OPEN
10. Static Selector Switch	.....	PIL/COPILOT	15. Fuel Crossfeed Levers X4 Levers	.....	CLOSED
11. Flight Control Booster Lever	.....	ON	16. Emergency Shut-off Levers	.....	OPEN
12. Electric Elevator Tab	.....	OFF	17. Fuel Dump Levers	.....	CLOSED AND SAFETIED
13. Flight Path Control Cover	....	REMOVED	18. Anti-icer Fluid level x2 Tanks	...	CHECKED
F.P.C switch	.....	OFF	19. Mixture Levers	.....	OFF
14. Landing Light Switches	...	AS DESIRED	20. Engine Superchargers Levers	.....	LOW
15. Seat Belt Light, No Smoking Light ...		AS DESIRED	21. Propeller Synchronizer Lever	.....	OFF
16. Flight Control Auxiliary Booster	.....	OFF	22. Carburetor Air Switches	.....	COLD
17. Ignition Switches	.....	OFF	23. Cowl Flaps Switches	.....	OPEN
18. O2 Pressure & Mask	...	CHECKED	24. Feather Switches	...	NORMAL
19. Pitot Heater Switches - COPILOT	.....	OFF	25. Propeller Selector Switches	.....	AUTO
20. De-icer Boot Switches - COPILOT	.....	OFF	26. Auxiliary Fuel Pump Switches	.....	OFF

FLIGHT ENGINEER

01. Visual inspection	.....	COMPLETED	27. Oil Cooler Flaps Switches	.....	AUTO
02. Gross weight and CG on CARD	.....	COMPLETED	28. Air Conditioning	.....	SET
03. Fuel and oil quantity	.....	CHECK	29. CO2 Selector And Dump Controls	.....	OFF & CLOSED
04. Battery Voltage 24-28 Volts	.....	CHECK	30. O2 System Pressure	.....	CHECKED
05. Emergency Instrurument Inverter	.....	OFF	31. Auxiliary Fuel Dump vValves ..		NEUTRAL & SAFETIED
06. Ignition Switches		OFF	32. Life Raft Handles And Driftmeter		CHECKED
07. Circuit Beakers		ON	33. Vacuum Shut-off Valve		ON

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B.3.ENGINE STARTING PROCEDURE

PILOTS

01. "START ENGINE" Interphone Announce ... OK

02. Acknowledges Engineer order "ON"

03. gyro caging switch ACTUATE

04. Signal Ground Crew To Remove Gear Pins

FLIGHT ENGINEER

Engine start sequence 3, 4, 2, 1

- | | | |
|---|-------|-------------|
| 01. Fire Guard On Ground | ..... | POSTED |
| 02. Co2 Fire Extinguisher Selector | ..... | SET |
| START ENG 3 | | |
| 03. Auxiliary Fuel Pump SW ENG# | ..... | ON HIGH |
| 04. Mixture Lever ENG# | ..... | AS REQUIRED |
| 05. Engine# Starter Selector Switch | ..... | SET |
| 06. Starter Switch | ..... | ENGAGE |
| 07. Ask Ignition # Switch On To Pilot After 6 Blades Turn | | |
| | | |
| 08. Generator Switch ENG# | ..... | ON |
| 09. Inverter Switch | ..... | ON |
| 10. Hydraulic System Crossover Sw | ..... | NORMAL |
| START ENG 4 (03. to 10.) | | |
| 11. HYD Secondary System | ..... | EMERGENCY |
| 12. Aileron Controls | ..... | CHECK |
| 13. HYD Secondary System | ..... | NORMAL |
| START ENG 2 (03. to 10.) | | |
| START ENG 1 (03. to 10.) | | |
| 14. Pressure And Temperatures | ..... | NORMAL |
| 15. Auxiliary Fuel Pump Switch | | OFF |
| 16. Engine Starter Selector | | OFF |
| 17. Co2 Selector SW | | OFF |

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B.4. ENGINE STARTING PROCEDURE

Operate engine at 1000-1400 rpm until oil inlet temperature has risen at least 6°C above the pre-starting temperature and the oil pressure is stabilized.

B.5. BEFORE TAXIING

PILOTS

01. Radio Inverter	.....	ON
02. Master Radio Switch	.....	ON
03. Radio Equipment PIL&COPI	.....	ON
04. HYD Pressure	.....	CHECKED
05. Test Brakes	.....	CHECKED
06. Altimeters PIL&COPI	.....	SET
07. Pitot Covers & Gear Pins	.....	ABOARD
08. Ground Units and Chocks	.....	REMOVED
09. Signal ground crew to remove wheel chocks		
10. Release Parking Brake (light out)	.....	OK

ENGINEER

01. Radio Inverter	.....	ON
02. Propeller Synchronizer 2800 RPM	.....	ON
03. Hydraulic Systems	.....	CHECKED
Pressure & Quantity 1 & 2		
04. Altimeter 29.92HG	.....	SET
05. Doors (light out)	.....	CLOSED
06. Air Conditioning Panel	.....	SET
07. Engine Instruments	.....	CHECKED
08. Ignition Analyzer	.....	ON
09. Vacuum Warning Lights	.....	OUT
10. Pitot Covers & Gear Pins	.....	ABOARD

B.6. TAXIING

PILOTS

01. Turn Indicator And Compass P&CP....	CHECKED
02. Wing Flap Up Test Switch	 CHECKED
03. Vacuum Lights And Pressure	 CHECKED
04. Propeller Reversing 1234	 CHECKED

ENGINEER

01. Mixture Levers	.....	AS REQUIRED
02. Fuel Crossfeed Levers	.....	CHECKED
03. Carburetor Heat Switches	.....	HOT
04. Wait For Carburetor Temp Increase		
05. Carburetor Heat Switches		COLD
06. Magneto Ground		COMPLETED

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B.7. ENGINE RUN-UP

PILOTS

- 01. De-icer Boots CHECKED & OFF
- 02. Autopilot And Servo Disco Levers CHECKED
- 03. Fight Instruments PIL&COPI CHECKED
 - Gyro Compass Operating
 - RMI's Aligned And Operating

ENGINEER

- 01. Mixture Levers AUTO RICH
- 02. Throttle Levers 1600 RPM
- 03. Master De-icer CHECKED & OFF
 - a. 1600 RPM On All Engines
 - b. Master De-icer ON
 - c. Verify Decrease BMEP and RPM
 - d. Master De-icer OFF
 - e. Repeat Steps For Other Engines
- 04. EngSupercharger Levers HIGH
- 05. Throttle Lever 1700 RPM
- 06. Propeller Synchronizer Lever... CHECKED
 - a. Reduce Slowly Until 200 to 300 RPM Drop
 - b. Return to Full RPM Position
 - c. Synchro Light CHECKED
- 07. Superchargers LOW
 - Observe 2 in. HG Drop in MAP
- Throttle Lever 1500 RPM

B.8. BEFORE TAKE-OFF

PILOTS

- 01. Doors & Windows CLOSED
- 02. Wing Flap Lever 60% TAKE-OFF (CP)... SET
- 03. Trim Tab SET
- 04. Flight Controls Booster Levers ON
- 05. Taxi Lights OFF
- 06. Anti-Collision Lights ON
- 07. Rudder Elevator & Aileron moves FREELY
- 08. Radio And Radio Altimeter SET
- 09. Pitot Heater AS REQUIRED
- 10. Repeat To The Crew DATAS
 - a. Go NoGo Speed
 - b. Takeoff Speed
- 11. Windshield Blower AS DESIRED
- 12. Windshield Wipers AS REQUIRED

ENGINEER

- 01. Doors & Windows CLOSED
- 02. Propeller Selector Switches AUTO
- 03. Pressures And Temperatures CHECK
- 04. Emergency Cabin Lights AS REQUIRED
- 05. Wing Flap Check For Takeoff VISUAL
- 06. Auxiliary Fuel Pump Switches HIGH
- 07. Mixture Levers 1234 AUTO-RICH
- 08. Cowl Flap Switches 1234 50%

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B.9.TAKE-OFF / CLIMB

PILOTS

PILOT Call for "MAX POWER"

PILOT use nose wheel steering until 50-55 knots

COPILOT calls out GO or NO-GO Speeds
calls LIFT-OFF at takeoff speed

PILOT calls for "GEAR-UP"

COPILOT acknowledges "GEAR COMING UP", Raise the gear
then call "GEAR IS UP" to PILOT

At 130kts PILOT call for "METO POWER"

Above 500 fts PILOT CALL for "FLAPS UP"

COPILOT acknowledges "FLAPS COMING UP"

WING FLAPS UP

COPILOT state "FLAPS UP"

At 160 kts PILOT CALL "CLIMB POWER"

Landing lights RETRACT

Flight control auxiliary booster switches OFF

No smoking & seat belt light switches OFF

ENGINEER

ENGINEER ACKNOWLEDGE "MAX POWER" -
THROTTLE to MAX POWER in 5 seconds

35 in HG MAP <2885 RPM max 3350 RPM

ENGINEER ACKNOWLEDGE "METO POWER"

wait for gear up and airspeed =>140 kts

pressurisation SET

ENGINEER acknowledge "CLIMB POWER"

Low blower - 2300 RPM - 151BMEP

High blower- 2300 RPM - 145 BMEP

Auxiliary fuel pumps switches LOW

cowl flaps switches AS REQUIRED

Emergency

announce "CLIM POWER SET"

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B.10. CRUISE

PILOTS

01. Acknowledge "CRUISE CHECKLIST COMPLETED"

ENGINEER

- | | | |
|---|-------|------------|
| 01. Cruise Power | | SET |
| 02. Cowl Flap switches | ..... | SET |
| 03. Oil Cooler Flap Switches | ..... | SET |
| 04. Mixture Lever 1234 | ..... | 10% LEAN |
| Check Manual Lean REF Table | | |
| 05. Fuel Tank Selector Levers | | AS DESIRED |
| 06. Air Conditioning | | SET |
| 07. Notify Pilot "CRUISE CHECKLIST COMPLETED" | | |

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