

EXTERNAL CHECK

COCKPIT SAFETY CHECK

COCKPIT PREPARATION

APU START

ENGINE START PREPARATION

ENGINE START

STARTING LIMITS

AFTER ENGINE START

READY FOR SYSTEM CHECKS

ENGINE STOP

APU STOP

CROSS BLEED START

STARTER VALVE FAILS TO CLOSE

**HOT, HUNG, OR NO START
ENGINE FAILURE or STALL**

TAIL PIPE FIRE

APU FIRE

ENGINE FIRE

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EXAMPLE CHECKLIST ONLY ! UNCONTROLLED DATA ! FOR INFORMATION ONLY !

EXTERNAL CHECK

Walk around inspection COMPLETED

Wheel chocks IN PLACE

Nose wheel FWD DIRECTION

Tow bar REMOVED

Bypass pin REMOVED

Steering depress. Valve NORMAL

Landing gear pins INSTALLED

Ground coverings REMOVED

Engine CHECKED

Fire Extinguisher IN PLACE

Equipment & Personal IN SAFETY AREAS

EXAMPLE CHECKLIST ONLY ! UNCONTROLLED DATA ! FOR INFORMATION ONLY !**COCKPIT SAFETY CHECK**

(Before applying electrical power)

EXTERNAL CHECK.....	COMPLETED
ATL	CHECKED
Circuit breakers.....	IN
Flight Recorder Test switch	NORMAL
EEC selector p/b's	ON
Passenger Oxygen switch	NORMAL
IRS switches	OFF
Dome white switch	OFF
Service interphone switch	OFF
Fuel CROSS FEED selector	CLOSED
FUEL PUMP switches	OFF
GALLEY Power switch	OFF
CAB/UTIL and IFE/Pass seat switch...	OFF
STANDBY POWER switch	AUTO
EMER EXIT LIGHTS switch	OFF
WIPER selectors.....	PARK
WINDOW HEAT switches	OFF
PROBE HEAT switches	OFF
WING ANTI-ICE switch	OFF
ENG ANTI-ICE switches	OFF
ENG HYD PUMP switches	ON
ELEC HYD PUMP switches	OFF
PACK switches	OFF
ISOLATION VALVE switch.....	OPEN

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Engine BLEED switches.....	ON
APU BLEED switch.....	OFF
Pressurization Mode selector	AUTO
ENGINE START switches.....	OFF
IGN Select switch	SET
APU switch	OFF
Exterior light switches	OFF
MAIN PANEL DU's selectors.....	NORM
AUTO BRAKE select switch	OFF
LANDING GEAR lever	DOWN
SPEED BRAKE lever	DOWN DETENT
FLAP lever	SET
THRUST levers	IDLE
ENG START levers	CUTOFF
ENGINE & APU FIRE handles	DOWN & LOCKED
Control wheel PTT switches.....	CHECK

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EXAMPLE CHECKLIST ONLY ! UNCONTROLLED DATA ! FOR INFORMATION ONLY !**COCKPIT PREPARATION**

COCKPIT SAFETY CHECKLIST..... COMPLETED

Weather Radar RT CB..... OPEN

Aural warning CB..... OPEN

DC meter selector..... BAT

Battery Power Only

BAT switch ON

VHF 1 SET

FIRE Protection CHECKED

With Main external Ground Power

BAT switch ON

AC meter selector GRD PWR

GRD PWR switch ON

VHF 1 SET

FIRE Protection CHECKED

EXAMPLE CHECKLIST ONLY ! UNCONTROLLED DATA ! FOR INFORMATION ONLY !**APU START (Battery power only)**

Cockpit Preparation	COMPLETED
Emergency procedure	CLEAR
AC Meter selector	APU GEN
APU GEN switches	ON
APU switch	START
APU FREQ / VOLT	CHECK
APU GEN switches	ON
APU FREQ / VOLT	CHECK
STANDBY POWER switch	AUTO
FUEL PUMP 1 AFT switch	ON
FIRE Protection	CHECKED

- **WHEEL WELL** > Fire warn Lt ON with OVHT/FIRE
- **CARGO FIRE**

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APU START (With Ground Power)

Cockpit Preparation	COMPLETED
Emergency procedure	CLEAR
AC Meter selector	APU GEN
APU GEN switches	ON
FUEL PUMP 1 AFT switch	ON
APU switch	START
APU FREQ / VOLT	CHECK
APU GEN switches	ON
APU FREQ / VOLT	CHECK

EXAMPLE CHECKLIST ONLY ! UNCONTROLLED DATA ! FOR INFORMATION ONLY !**ENGINE START PREPARATION**

APU START Check list	PERFORMED
Testrun Forms	PREPARE
Heading / Position	CHECKED / NOTED
Aircraft Gross Weight	CHECKED / NOTED
MASTER LIGHTS TEST & DIM switch.	CHECKED
DISPLAY SOURCE PANEL.....	SET
L & R DISPLAY SELECT PANEL.....	SET
MFD p/b.....	PUSH "SYS"
ELEC HYD PUMP switches	ON
HYDR QTY	CHECK
PARKING BRAKE	SET
FLAP lever	UP POSITION
WING/BODY OVHT TEST.....	CHECKED
Pressurization Mode selector	MANUAL
APU BLEED switch	ON
PROBE HEAT switches.....	ON
DOOR WARNING lights	OFF
FUEL PANEL	SET
MFD p/b.....	PUSH "ENG"
ENG OIL QTY	CHECK
FUEL FLOW.....	RESET
FMS (CDU).....	SET
ACMS.....	SET
MASTER CAUTION recall.....	CHECKED

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Ground Crew CONFIRM

Platform Traffic Control INFORM

POSITION lights ON

ANTI-COLLISION light ON

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ENGINE START

ENGINE START PREPARATION	PERFORMED
EMERGENCY PROCEDURE	CLEAR
Start up area	CLEAR
PERMIT TIME	START
ENGINE START switch	GRD
ENGINE PARAMETERS	CHECK
ENGINE START lever	IDLE
ENGINE PARAMETERS	CHECK
Elapse time	RUN

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EXAMPLE CHECKLIST ONLY ! UNCONTROLLED DATA ! FOR INFORMATION ONLY !**AFTER ENGINE START****ENGINE IDLE Speed CHECK**

* N1 approx. 20%

* EGT 320 - 520 C

* N2 approx. 59%

* FF approx. 270 kg/h

* OIL PRESS > 13 psi

* OIL TEMP < 140 C

* VIBRATION

ENG VALVE CLOSED light..... OUT**SPAR VALVE CLOSED light..... OUT****FUEL FILTER BYPASS light OUT****GENERATOR DRIVE light OUT****ENG ANTI-ICE As Required****HYD PUMP LOW PRESS lights OUT****BLEED switches OFF****ENG GEN's CHECKED****Ground Crew INFORM****eng anti-ice limit: >18 C max. 30 sec.****<18 C no limit**

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EXAMPLE CHECKLIST ONLY !UNCONTROLLED DATA ! FOR INFORMATION ONLY !**ENGINE STOP**

THRUST levers	IDLE
Ground Crew	INFORM
APU GEN or GRD PWR.....	ON
ENG Start levers	CUTOFF
ENGINE PARAMETERS	CHECK
ANTI COLLISION light	OFF
Elapse Time	NOTED
Permit Time	STOP
FUEL PUMP switches	SET
PROBE HEAT A & B.....	OFF
ENG Anti-ice.....	OFF
HYD system.....	NORMAL
BLEED System.....	NORMAL
Pressurisation Mode selector.....	AUTO
POSITION light.....	OFF
Platform Traffic Control.....	INFORM
ENG OIL QTY.....	CHECKED
FUEL USED.....	NOTED
MFD p/b.....	"SYS"
HYD QTY.....	CHECK
L & R DISPLAY PANEL selectors.....	NORM
Circuit Breakers.....	IN

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APU STOP

External power	As required
APU switch	OFF
FUEL PUMP 1 AFT switch	OFF
GRD POWER switch	OFF
BAT switch	OFF
DC Meters selector	BAT

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CROSS BLEED START

Operating Engine	IDLE
L & R PACK switches	OFF
ISOLATION VALVE switch	OPEN
BLEED switches	ON
THRUST lever	ADVANCE
ENGINE START	CHECKLIST
THROTTLE lever	IDLE
AFTER ENGINE START checklist	PERFORM

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STARTER VALVE FAILS TO CLOSE

- ▶ ALL AIR sources OFF
- ▶ Engine Start lever CUTOFF

Procedure completed

EXAMPLE CHECKLIST ONLY !UNCONTROLLED DATA ! FOR INFORMATION ONLY !**HOT, HUNG OR NO START**

- ▶ Engine Start lever..... CUTOFF
- ▶ EGT / N2 / FF..... MONITOR
- ▶ Motor the engine for 60 sec.
 - If starter was already disengaged
(Starter Valve light out)
wait until N2 is below 30%
then turn Engine Start Switch to GRD.

After 60 sec.

- ▶ ENG Start switch OFF

Procedure completed.

NOTE:

- Engine start limit NOT exceeded
 - Another start maybe attempted. If the engine does not start a second time, dry motor for 60 sec., select starter switch to OFF and find the cause of the malfunction.
- Engine start limit exceeded
 - Maintenance action required.

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ENGINE STALL or FAILURE

► **THRUST Levers..... IDLE**

- **STALL does NOT recur**
 - Advance thrust lever slowly
 - Check for normal acceleration parameters and vibration level.
 - Engine operation may continue.

Procedure completed.

- **STALL Recur.**
 - Shut down Engine
 - Maintenance action required

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TAIL PIPE FIRE

▶ Engine Start lever..... CUTOFF

▶ BLEED SOURCE..... ON

▶ Motor the engine.

■ Starter engaged

- Motor engine until fire is extinguished.

When fire is extinguished:

- Engine Starts switch..... OFF

Procedure completed

■ Starter NOT engaged

- Bleed Isolation valve..... OPEN

When N2 below 30%:

- ENG START switch..... GRD

- Motor engine until fire is extinguished.

When fire is extinguished:

- Engine Start switch..... OFF

Procedure completed

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APU FIRE

- ▶ BELL..... CUTOFF
- ▶ APU FIRE handle..... PULL & ROTATE
- ▶ APU switch..... OFF
- ▶ APU Bleed switch..... OFF
- ▶ STANDBY POWER switch..... BAT
- ▶ Platform Traffic Control..... ALERT APU FIRE
- ▶ Ground Crew..... STANDBY

After 30 seconds:

- APU FIRE WARNING Light..... OUT
 Procedure completed
- APU FIRE WARNING Light..... ON
 EVACUATION PROCEDURE..... PERFORM

EVACUATION PROCEDURE ON THE BACK

Note: If engine is running thrust levers..... IDLE

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ENGINE FIRE

- ▶ **BELL..... CUTOFF**
- ▶ **THRUST Levers..... IDLE**
- ▶ **Engine Start levers..... CUTOFF**
- ▶ **ENGINE FIRE handle..... PULL and ROTATE**
- ▶ **ALL FUEL PUMP switches..... OFF**
- ▶ **PLATFORM TRAFFIC CONTROL.... ALERT ENGINE FIRE**
- ▶ **ALERT GROUND CREW..... Standby**
- **BOTTLE DISCHARGE Light..... ON**
- If not ON, operate opposite bottle

After 30 seconds:

- **ENGINE FIRE WARNING Light..... OUT**
Procedure completed
- **ENGINE FIRE WARNING Light..... ON**
REMAINING AGENT..... DISCHARGE
EVACUATION PROCEDURE..... PERFORM

EVACUATION PROCEDURE ON THE BACK

If Fire Brigade is at the spot for engine inspection, other engine if applicable cut-off, and ANTI COLLISION switch OFF

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EVACUATION PROCEDURE

1. Engine Start Levers..... CUTOFF
2. Standby power switch..... BAT
3. Engine Fire Warning handles..... PULL
4. APU Fire Handle..... PULL
5. PLATFORM TRAFFIC CONTROL.....
DECLARE
EMERGENCY
6. When leaving the Flightdeck:
 - GRD PWR switch..... OFF
 - Standby Power switch..... AUTO
 - BAT switch..... OFF
7. CREW.....
EVACUATE
AIRCRAFT