

Line Maintenance Training B787

Warsaw, November 2013



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*** „DY” – Daily



1. INTRODUCTION

INTRODUCTION

- The instruction is applicable to the Boeing B787-8 aircraft operated by LOT Polish Airlines.
- The instruction has been issued in English language, adequately for use by LOT personnel & Polish subcontracted organizations and by foreign subcontracted organizations.
- The instruction covers both pre-departure check and line maintenance check – DY, ETOPS
Additionally, this instruction contains the principles of the checks and inspections which are due to special and unusual conditions
This document also specifies the tasks, which should be accomplished after arrival (known as "PP"), before departure (known as "PS"), and additional tasks ordered occasionally by Aircraft Scheduling Department.
- The Instruction is considered as an extract from "LOT POLISH AIRLINES SCHEDULED MAINTENANCE PROGRAM FOR B787-8 AIRPLANES" Doc. No 2124 which are approved by Polish CAA (Civil Aviation Authority of the Republic of Poland}. Because of this, additional separate approval by Polish CAA of this document and subsequent revisions are not required.
- The manager (supervisor) of the organizational unit (user of this instruction) is responsible for familiarization of his staff with the instruction contents. Each user should be sure that used page of instruction is valid, checking it against a list of effective pages.



2. PRE-DEPARTURE CHECK „PDC”

PRE-DEPARTURE CHECK „PDC”

Check's intention

With regard to the pre-flight inspection it is intended to mean all of the actions necessary to ensure that the aircraft is fit to make the intended flight. The pre-flight inspection, performed as the pre-departure check (PDC) is not considered as a maintenance check and includes the following tasks:

- a walk-around type inspection of the aircraft and its emergency equipment for condition including, in particular, any obvious signs of wear, damage or leakage. In addition, the presence of all required equipment including emergency equipment should be established.
- an inspection of the aircraft continuing airworthiness record system (the Technical log) to ensure that the intended flight is not adversely affected by any outstanding deferred defects and that no required maintenance action shown in the maintenance statement is overdue or will become due during the flight.
- a control that consumable fluids, gases etc. uplifted prior to flight are of the correct specification, free from contamination, and correctly recorded.
- a control that all doors are securely fastened.
- a control that control surface and landing gear locks, pitot/static covers, restraint devices and engine/aperture blanks have been removed.
- a control that all the aircraft's external surfaces and engines are free from ice, snow, sand, dust etc.
- a control of security seals as needed.

Performance of Pre-Departure Check does not release air-crew from duties resulting from PLL LOT S.A. Operation Instruction and of suitable flight manuals (AFM, AOM).

PRE-DEPARTURE CHECK „PDC”

Check's performance rules

The pre-departure check "PDC" has to be done strictly according to this instruction.

As a supplemental documentation for air-crew, the B787 Operations Manual provided by the aircraft manufacturer, can be used.

The following personnel is authorized to do the job:

- pilot having airplane license and corresponding supplement to it (his scope of authorization is limited to pre-departure check and release an ale to flight only without authority for adjustment or defect rectification),
- Mechanic of external (subcontracted) maintenance organization which possess the approval according to EASA PART 145 rules (or equivalent), and who has been trained for relevant LOT Polish Airlines technical, operational procedures, and documentation .

Details about personnel authorization and additional requirements regarding predeparture check accomplishment by pilots are described in LOT Polish Airlines Operations Manual.

„PDC" check has to be performed just before take-off.

„PDC" check does not include defects and malfunctions rectification, so after revealing necessity of doing such work and completing it by an authorized technical personnel, the check performance has to be repeated.

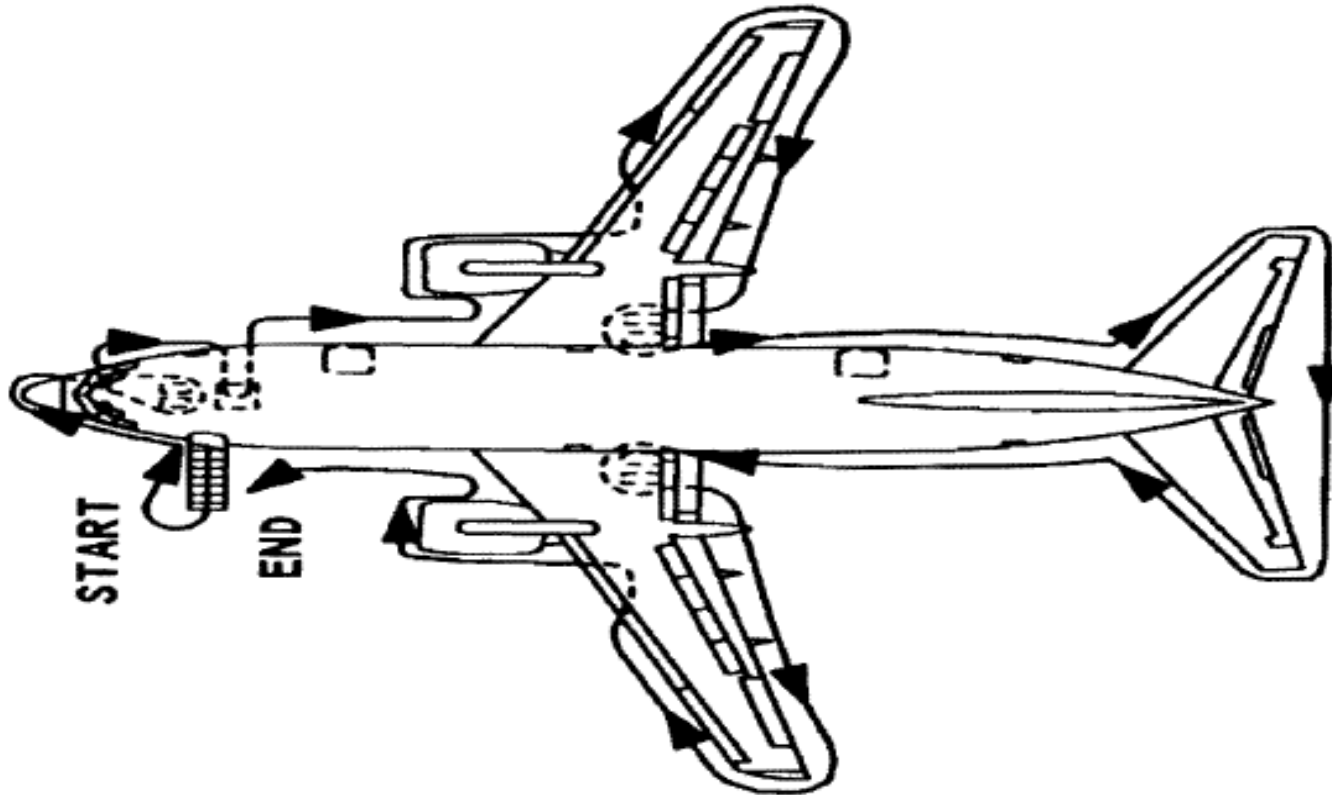
Confirmation of .. PDC" check completing can be done solely by the person who did It and this in turn is considered as an aircraft release to flight.

Both of the above mentioned steps (check accomplishment and its confirmations) are together counted as a Pre-Flight Inspection as required by EASA Part M (M.A.301.).

PRE-DEPARTURE CHECK „PDC”

External visual inspection (05-001-LOT)

Inspection Route



PRE-DEPARTURE CHECK „PDC”

External visual inspection (05-001-LOT)

FUSELAGE / EMPANNAGE



Pay attention to:

- **STATIC PORTS**
- **TAT probes**
- **Pitot probes**
- **Ice Detector Probes**
- **AOA Sensors**



PRE-DEPARTURE CHECK „PDC”

External visual inspection (05-001-LOT)

LANDING GEAR AND DOORS



ENGINES AND APU



PRE-DEPARTURE CHECK „PDC”

Internal visual inspection (05-002-LOT)

A. Visually inspect to make sure that:

- (1) There is no obvious damages in the passenger cabin, lavatories, galleys, entrance door area which can affect flight or passenger safety;
- (2) The aircraft is properly fit for the intended flight in terms of emergency equipment.

PRE-DEPARTURE CHECK „PDC”

Pre-departure doors, panels, downlocks and covers check (05-003-LOT)

A. Visually inspect to make sure that

- (1) Both cargo doors (FWD and AFT) are closed and latches are fully engaged;
- (2) Fueling station door is closed and secured;
- (3) Water & waste panels are closed and secured.

B. Make sure that other panels than mentioned above have been closed.

C. Make sure at the same time, that adjacent areas (aircraft structure) has not been damaged during handling operations.

D. Make sure that ground lock assemblies from nose and both main landing gears have been removed.

E. Make sure that the pitot covers have been removed.

PRE-DEPARTURE CHECK „PDC”

Aircraft technical log book entries check.
(05-004-LOT)

On-board documents check
(05-005-LOT)



PRE-DEPARTURE CHECK „PDC”

Release the aircraft for the flight (05-006-LOT)

Make sure that whole set of PDC task has been accomplished

Make a suitable entry in the Aircraft Logbook, according to Aircraft Logbook instruction, if the conditions to release aircraft for the flight are met.

Note: PRE-FLIGHT INSPECTION, IN UNDERSTANDING OF EASA PART M (M.A.301) REGULATIONS, CONSISTS OF: ACCOMPLISHED PDC AND RELEASE THE AIRCRAFT FOR THE FLIGHT. IT DOESN'T RELEASE AIR-CREWS FROM DUTIES RESULTING FROM PLL LOT S.A. OPERATION MANUAL AND OF AIRCRAFT MANUALS (AFM, AOM)

PRE-DEPARTURE CHECK „PDC”

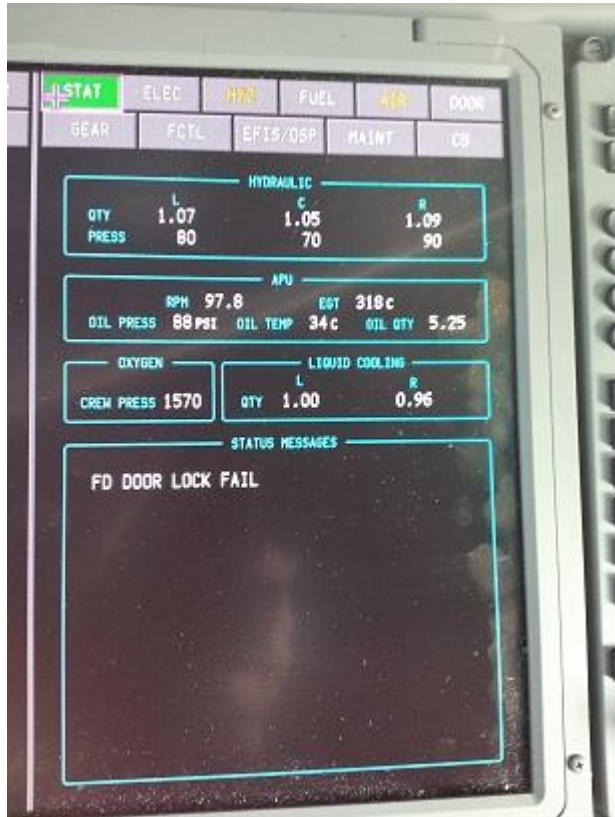
Security seals inspection (05-007-LOT)

INSPECT ALL AREAS MARKED „**SEAL HERE**”



PRE-DEPARTURE CHECK „PDC”

APU Oil Level Check.
(49-700-00-LOT)



OIL Level Check BOTH engines.
(05-005-LOT)





Thank You