

CHAPTER – 17

TAXI TEST PROCEDURE

L 410 UVP-E20 AIRCRAFT

Purpose

1. Taxi Tests of L 410 UVP-E20 aircraft are carried out on the following occasions:
 - a. **Taxi Test in General**. When the aircraft remains idle on ground for 07 days or more. In such case the taxi test can be combined with the normal mission.
 - b. **Taxi Test for New Brake Unit** After the installation of new brake units or after the replacement of individual plats.

Procedure

2. On both the occasions, Captain of the aircraft is to brief all crewmembers and carry out following additional checks with other normal checks as lay down in the checklist.
 - a. **Before Start Up**: Check that compressed air is available at the aircraft Parking Area.
 - b. **After Start Checks**:
 - (1) Check Hydraulic quantity and press.
 - (2) Check parking brake press 40+5 kg/sq cm.
 - c. **Taxi Checks (parking area to lineup point)**:
 - (1) Obtain ATC clearance for Taxi Test.
 - (2) During taxing check main brakes system.
 - (3) After entering the runway check emergency brakes.
 - d. **Line Up Checks**:
 - (1) Flaps – Zero/18
 - (2) Nose wheel steering- Pedal, Pedal Light check ON.
 - (3) Heating and Air Condition System - Off.
 - (4) Landing/Taxi Lt - on.
 - (5) AP disengaged button press.

Taxi Test in General

3. a. Brakes - on.
- b. Advance TCL gradually 80% TRQ.
- c. Check.
 - (1) Brake press 40 ± 5 kg/sq cm
 - (2) No movement of aircraft (if aircraft moves at any stage before reaching TCL 80%-90%, bring both the TCL back to Zero and discontinue the taxi test).
- d. Check no Warning Light in the cockpit except pitot heaters.
- e. Release - Brakes.
- f. As aircraft gains speed 60 kts Both TCL back to idle.
- g. Maintain aircraft direction and apply brakes as required to stop the aircraft.
- h. Return to Dispersal.

Taxi Test for New Brake Units

4. At line up point carry out the checks as given below:
 - a. Brakes - On
 - b. Advance TCL gradually 80%-90% Torque
 - c. Check.
 - (1) Brakes press $40 + 5$ kg/sq cm.
 - (2) No movement of aircraft.
 - d. If the aircraft moves at any stage before reaching TCL 80%-90%.
 - (1) Both TCL back to idle
 - (2) Release brakes
 - (3) Discontinue the Taxi Test
 - (4) Return to dispersal.
 - (5) While returning to dispersal, maintain aircraft direction and apply brakes at or below 10 kts (IAS) intermittently to stop the aircraft (check brakes press $40 + 5$ Kg/cm²).

RESTRICTED

- e. If the aircraft holds at 80%-90%, follow the procedures mentioned above for Taxi Test in General (para-3).

CAUTIONS

1. Taxi Test is not to be carried out if the Ambient Air Temp is beyond 50°C.
2. "Taxi Test" is not to be carried out when available RUNWAY length is less than 3000ft.
3. "Taxi Test" should not be done between 1200F to 1500F or any time of the day when the ambient or tarmac temp would likely to be above 40°C.
4. While back tracking for line up, TCL should not be advanced from the Idle position for "Taxi Test" with New Brakes Units".
5. After "Taxi Test", if the brakes are found heated up considerably, then immediate cooling is to be done at the parking point by "Compressed Air"