

**CHAPTER**

**08**

**LEVELING AND  
WEIGHING**



**777-200/300  
AIRCRAFT MAINTENANCE MANUAL**

**CHAPTER 08  
LEVELING AND WEIGHING**

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**CHAPTER 08  
LEVELING AND WEIGHING**

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**WEIGHING - MAINTENANCE PRACTICES**

**1. General**

- A. This procedure refers the mechanic to the Weight and Balance Manual.

**TASK 08-12-00-580-801**

**2. Prepare and Weigh the Airplane**

**A. Procedure**

- (1) Refer to the Weight and Balance Manual for procedures to prepare the airplane to be weighed.

———— **END OF TASK** ————

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## 777-200/300 AIRCRAFT MAINTENANCE MANUAL

### LEVELING - MAINTENANCE PRACTICES

#### 1. General

- A. The airplane has a lateral inclinometer, a longitudinal inclinometer, and a plumb bob leveling scale.
  - (1) The location of the inclinometers are in the nose wheel well (Figure 201).
  - (2) The location of the plumb bob leveling scale is on the keel beam near the front of the right main wheel well (Figure 202).
- B. For small adjustments to make the airplane level, the landing gear shock struts can be inflated or deflated if it is necessary.
  - (1) For larger adjustments to make the airplane level, the airplane must be lifted on jacks.
- C. The procedures to weigh the airplane are found in the airplane Weight and Balance Manual.

#### **TASK 08-21-00-580-801**

#### 2. Make the Airplane Level

##### A. References

Reference	Title
07-11-01-580-804	Lift the Airplane with Jacks (P/B 201)
07-11-01-580-805	Lower the Airplane Off of the Jacks (P/B 201)
10-11-01-580-804	Park the Airplane (Normal Parking) (P/B 201)
12-15-01-610-810	Main Landing Gear Shock Strut Servicing (P/B 301)
12-15-02-610-805-002	Nose Landing Gear Shock Strut Servicing (P/B 301)
32-00-15-080-801	Landing Gear Door Safety Pins Removal (P/B 201)
32-00-15-480-801	Landing Gear Door Safety Pins Installation (P/B 201)
32-00-30-480-801	Landing Gear Downlock Pins Installation (P/B 201)
32-00-40-860-801	Landing Gear Ground Door Release System Operation (Close the Doors) (P/B 201)
32-00-40-860-802	Landing Gear Ground Door Release System Operation (Open the Doors) (P/B 201)

##### B. Location Zones

Zone	Area
700	Landing Gear and Landing Gear Doors

##### C. Prepare to Make the Airplane Level

###### SUBTASK 08-21-00-580-001

- (1) Park the airplane in a level location.
    - (a) Do this task: Park the Airplane (Normal Parking), TASK 10-11-01-580-804
- NOTE:** The airplane must be parked on a level surface before you do this procedure.

###### SUBTASK 08-21-00-480-001

- (2) Make sure the landing gear downlock pins are installed on the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation, TASK 32-00-30-480-801.

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SUBTASK 08-21-00-010-001



### WARNING

USE THE CORRECT PROCEDURE TO OPEN THE DOORS. THE DOORS OPEN AND CLOSE QUICKLY AND CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (3) Open the doors of the landing gear, do this task: Landing Gear Ground Door Release System Operation (Open the Doors), TASK 32-00-40-860-802.

SUBTASK 08-21-00-480-003



### WARNING

USE THE CORRECT PROCEDURE TO INSTALL THE DOOR LOCKS. THE DOORS OPEN AND CLOSE QUICKLY AND CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (4) Install the door lock, do this task: Landing Gear Door Safety Pins Installation, TASK 32-00-15-480-801.

## D. Procedure

SUBTASK 08-21-00-210-001

- (1) Look at the position of the lateral and longitudinal inclinometers (Figure 201).

SUBTASK 08-21-00-210-002

- (2) Look at the plumb bob and leveling scale (Figure 202).

SUBTASK 08-21-00-580-002

- (3) Make the airplane level with the landing gear:
  - (a) Inflate or deflate the applicable landing gear shock struts until the inclinometers or plumb bob are at zero degrees.

NOTE: If you are to weigh the airplane, do not use the inclinometers to level the airplane.

    - 1) Adjust the shock struts of the main landing gear, do this task: Main Landing Gear Shock Strut Servicing, TASK 12-15-01-610-810.
    - 2) Adjust the shock strut of the nose landing gear, do this task: Nose Landing Gear Shock Strut Servicing, TASK 12-15-02-610-805-002.

SUBTASK 08-21-00-580-003

- (4) Lift the airplane on jacks until the inclinometers or the plumb bob are at zero degrees, do this task: Lift the Airplane with Jacks, TASK 07-11-01-580-804.

NOTE: If you are to weigh the airplane, do not use the inclinometers to level the airplane.

NOTE: Use the jacks if you can not make the airplane level with the landing gear.

## E. Put the Airplane Back to Its Initial Condition

SUBTASK 08-21-00-580-004

- (1) If it is necessary, lower the airplane off of the jacks, do this task: Lower the Airplane Off of the Jacks, TASK 07-11-01-580-805.

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SUBTASK 08-21-00-080-001



### WARNING

USE THE CORRECT PROCEDURE TO REMOVE THE DOOR LOCKS. THE DOORS OPEN AND CLOSE QUICKLY AND CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (2) Remove the door locks, do this task: Landing Gear Door Safety Pins Removal, TASK 32-00-15-080-801.

SUBTASK 08-21-00-410-001



### WARNING

USE THE CORRECT PROCEDURE TO CLOSE THE DOORS. THE DOORS OPEN AND CLOSE QUICKLY AND CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (3) Close the doors, do this task: Landing Gear Ground Door Release System Operation (Close the Doors), TASK 32-00-40-860-801.

————— END OF TASK —————

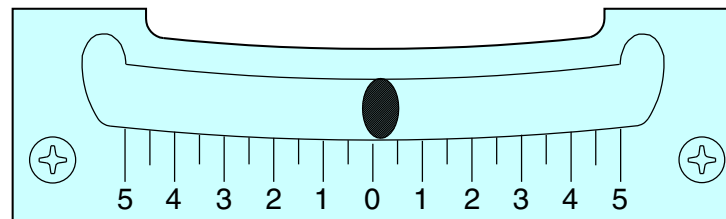
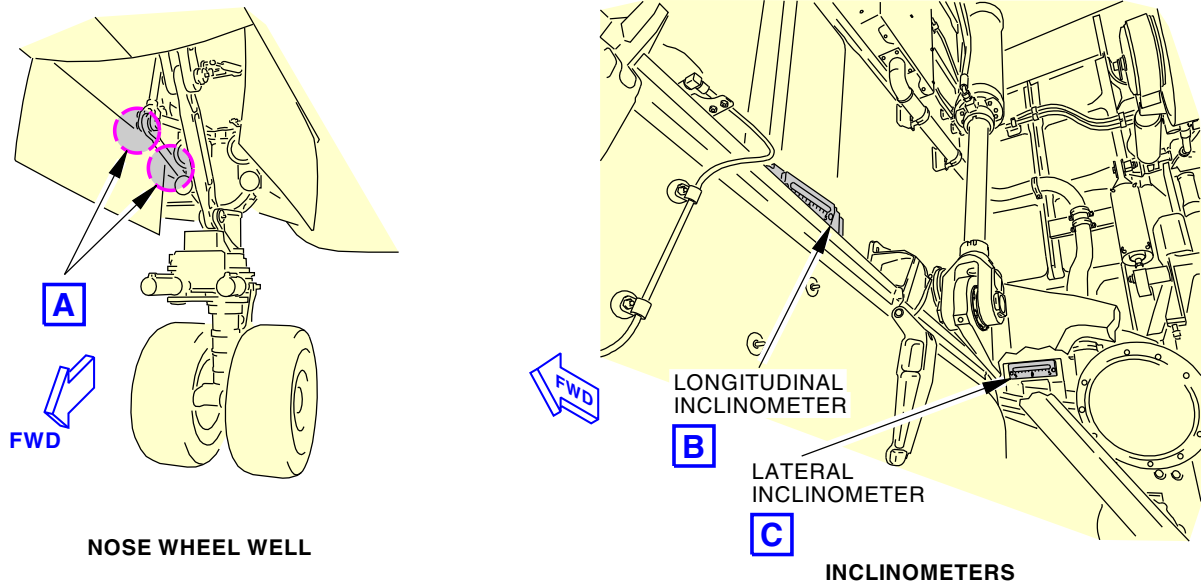
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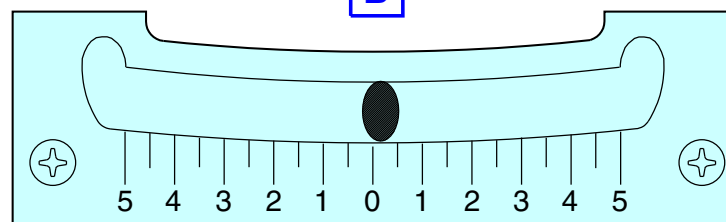
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**BOEING**  
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— NOSE DOWN      PITCH      NOSE UP +

**LONGITUDINAL INCLINOMETER**



LEFT WING UP      ROLL      LEFT WING DOWN  
RIGHT WING DOWN      RIGHT WING UP

**LATERAL INCLINOMETER**

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**Airplane Leveling Inclinometers**  
Figure 201/08-21-00-990-801

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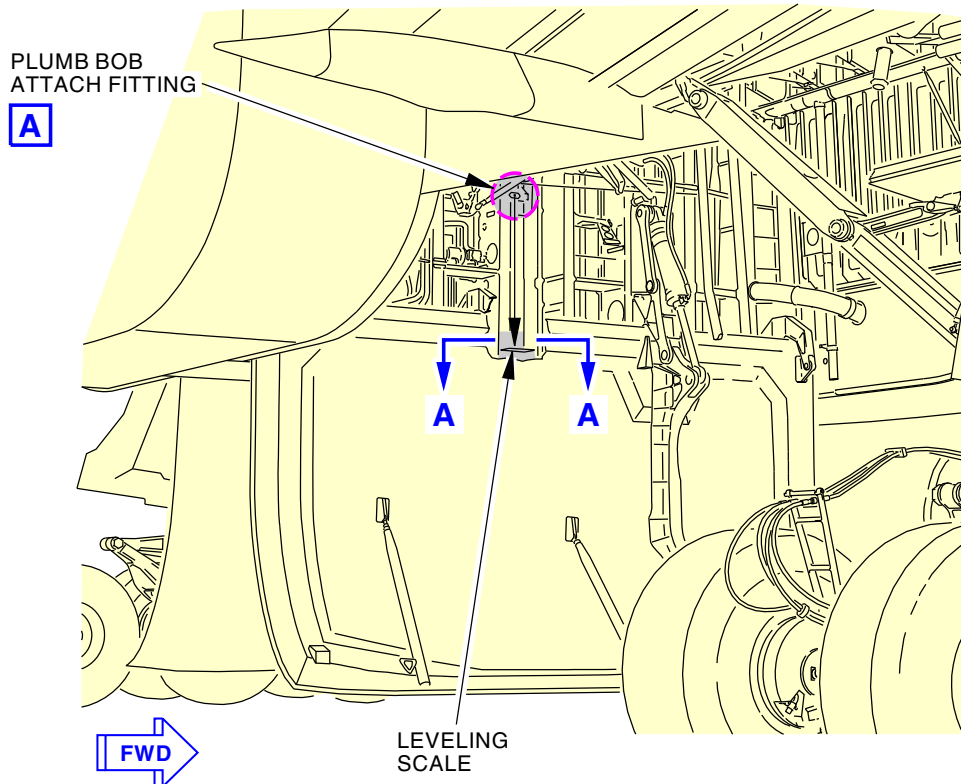
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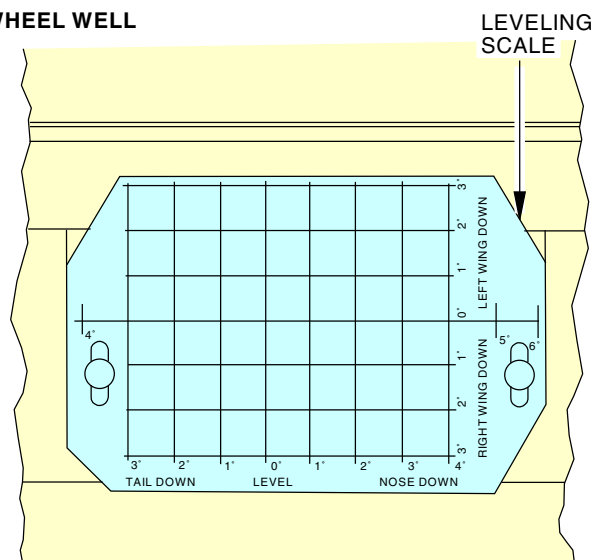
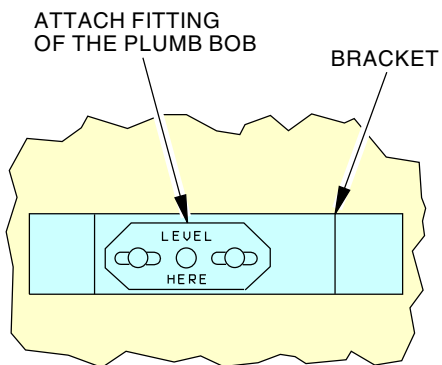
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**RIGHT WHEEL WELL**



**LEVELING SCALE**

**A-A**

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**Airplane Leveling Plumb Bob and Scale  
Figure 202/08-21-00-990-802**

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