STATION		EFFECTIVITY
TAIL. NO	**Boeing 737-300/400/500**	**ALL**
DATE	**MAINTENANCE JOB CARD**	AIRPLANE CARD NO
		08-200-00-W

SKILL	WORK AREA	RELATED TASK	INTERVAL	PHASE	REVISION
AIRPL	**AIRPLANE**		**48 MOS**		**09/May/2013**

TASK	TITLE	STRUCT. ILLUSTR. REF.
Operational	**AIRCRAFT WEIGHING**	

ZONES	ACCESS PANELS

MECH	INSP
X	X

AIRCRAFT WEIGHING PROCEDURE **08-200-00-W**

A. Equipment and Material :

1. Weighing equipment

Prepare the aircraft to weighing conditions i.a.w. Weight & Balance Manual Sect. 1-82-001; and Pre-weighing Check List:

Fuel:

Fuel from all tanks is drained to the trapped (usable and unusable) fuel condition. Trapped fuel is defined as the quantity of fuel which cannot be removed through the production sump tank drains.

To obtain trapped fuel condition:

1. Pump off all usable fuel to sump level.
2. Adjust and maintain airplane attitude at 0.15 degrees nose down.
3. Drain the remaining fuel through sump drain valves.

System Fluids

System fluids must be drained or at a known quantity as follows:

- Drain all waste tanks.
- Drain potable water system.

The following systems must be at service for flight:

- Engine Oil
- Hydraulic Fluids
- Oxygen
- Landing Gear Oleo Oil
- Fire Extinguisher Charge
- Miscellaneous Subsystem Fluids

MECH	INSP	
		Airplane Configuration The condition of the airplane at the time of weighing must be one that is well defined and can be easily repeated. Each of the following steps must be completed prior to weighing: • Inventory the airplane using an approved inventory list. • Remove all shop equipment, tools, and trash. • Stow all loose equipment items in their proper locations. • Dry the airplane thoroughly. • Close all doors and access panels. • Retract the flaps fully • Set the horizontal stabilizer, control surfaces, and spoilers to their neutral positions. • Inflate landing gear tires to specified operating pressures.
		Verify the Pre-weighing Check List (see Table 1)
		Perform Weighing procedure as applicable method (i.a.w. WBM 1-82-001) and record result to Weighing Report . **Note:** Weigh a/c minimum two time **WEIGHING PROCEDURE USING PLATFORM SCALES** The following procedure outlines the method for weighing the airplane on portable or floor level platform scales. The scales may be mechanical beam or electronic. Follow weighing equipment manufacturer's operating instructions. 1. Zero the platform scales prior to putting the airplane on the scales. All undesirable tare should be off the scales. 2. Position the airplane on the scales. The approach should be straight and the airplane should be brought slowly and smoothly to a stop, without applying airplane brakes. 3. Inflate or deflate landing gear oleos as required to obtain the desired longitudinal attitude. Check the attitude with the plumb bob. 4. Record landing gear oleo extensions. 5. Record weight reading obtained from each airplane weight reaction point. 6. Remove the airplane from the scales. 7. Check the scales for zero load condition. 8. Repeat weighing procedure as needed to verify airplane weight.

MECH	INSP

WEIGHING PROCEDURE USING ELECTRONIC LOAD CELLS

The airplane can be weighed using individual electronic load cells with adapters to interface with ground support equipment jacks and airplane jack points. It is most important that the weighing kit be adequately warmed up and that the airplane, ground support equipment, and weighing cells attain the same even temperature prior to weighing the airplane. Load cells require care in placement to prevent side loads. When using jacks, it is imperative to remove all weighing cell misalignment due to uneven floors or airplane structural deflection.

The following procedures outline the method for weighing the airplane with electronic load cells at either of the following:

- Landing gear axle jack points, or
- Primary jacking points.

LANDING GEAR AXLE JACK POINTS

Follow these procedures when weighing the airplane with electronic load cells at the landing gear axle jack points:

1. Follow weighing equipment manufacturer's operating instructions.
2. Inflate or deflate landing gear oleos as required to obtain the desired longitudinal attitude. Check the attitude with plumb bob.
3. Record landing gear oleo extensions.
4. Zero electronic weighing equipment prior to raising the airplane.
5. Center the jacks, with load cells installed, under the jack points. Proper alignment must be made between load cells and jack points.
6. Jack all positions at an even rate, maintaining a level attitude, until tires clear the floor.
7. Check airplane level attitude with the plumb bob. If necessary, jack individual points to obtain the desired attitude.
8. Record weight reading obtained from each airplane weight reaction point.
9. Lower airplane gently to the floor, maintaining a level attitude, until load cells are completely clear of the jack points.
10. Check the load cells for zero load condition.
11. Repeat weighing procedure as needed to verify airplane weight.

MECH	INSP	
		PRIMARY JACKING POINTS Follow these procedures when weighing the airplane with electronic load cells at the primary jacking points: 1. Follow weighing equipment manufacturer's operating instructions. 2. Bleed all air from the nose and main landing gear oleos and install oleo uplocks to prevent the oleos from extending. **WARNING:** ALL AIR MUST BE REMOVED FROM THE LANDING GEAR OLEOS IF UPLOCKS ARE INSTALLED. IMPROPER OLEO DEFLATION MAY CAUSE OLEO UPLOCK FAILURE. 3. Level the airplane prior to jacking so the airplane may be raised and lowered evenly on jack points, and minimize side loads. If the airplane attitude is nose down prior to jacking, an optional method of leveling the airplane is to inflate the nose gear oleo. The nose gear oleo would then be allowed to fully extend during the jacking operation. 4. Secure the main landing gear trucks, if required, by rope to prevent rotation during the jacking operation. 5. Zero electronic weighing equipment prior to raising the airplane. 6. Center the jacks, with load cells installed under the jack points. Proper alignment must be made between load cells and jack points. 7. Jack all positions at an even rate, maintaining a level attitude, until tires clear the floor. 8. Check airplane level attitude with the plumb bob. If necessary, jack individual points to obtain the desired attitude. 9. Record weight reading obtained from each airplane weight reaction point. 10. Lower airplane gently to the floor, maintaining a level attitude, until load cells are completely free of the airplane. 11. Check the load cells for zero load condition 12. Repeat weighing procedure as needed to verify airplane weight
		Return a/c to serviceable conditions

Boeing 737-300/400/500

MAINTENANCE JOB CARD

Table 1:

PRE WEIGHING CHECK LIST

AIRCRAFT : _____

REG. No _____ **(MSN** _____ **)**

THE FOLLOWING ITEMS MUST BE CHECKED BEFORE WEIGHING

GENERAL	Ck'd
1. Battery installation	____
2. All radio equipment insti	____
3. Hyd systems full (All)	____
4. Fuel tanks and sumps drained	____
5. Oil tanks full	____
6. All water tanks empty	____
7. Close all doors and windows	____
8. All magazines removed	____
9. All headrest covers removed	____
10. All printed matter removed	____
11. All pillows & blankets removed	____
12. All curtains instl	____
13. Airsickness containers removed	____
14. All coat hangers removed	____
15. All door escape slides instl	____
16. All emergency flashlights instl	____

COCKPIT	
1. Headphones and mike's instl	____
2. Check list and power charts	____
3. Log book and manuals instl	____
4. Oxygen mask instl (All)	____
5. Life vests instl (Seats)	____
6. Hand axe instl	____
7. Fire ext. instl	____
8. PBE instl	____

PASSENGER COMPARTMENTS	
1. All oxygen masks onboard	____
2. All demo oxy masks onboard	____
3. All fire ext onboard	____
4. All rugs instl	____
5. All curtains instl	____
6. All seat belt ext onboard	____
7. All seats installed and in upright posistion	____
8. All PBE's instl	____
9. All firefighting equipment instl	____
10. All Life vests onboard	____

GALLEY AREA	Ck'd
1. All Galleys clean	____
2. Liquid bottles removed	____
3. Food jugs removed	____
4. Food & dish drawers removed	____
5. Service trays removed	____
6. Serving carts removed	____
7. Waste containers inst.	____
8. Galley equipment (ovens, coffee makers) inst.	____

LAVATORIES (ALL)	
1. All containers empty	____
2. All lavatories unserviced (empty)	____
3. All lavatories clean	____

CARGO COMPARTMENTS	
1. All compartments clean	____
2. All compartments empty	____
3. Fly away kit parts removed	____
4. All doors closed	____

CHECK LIST	
1. Equip check list complete	____
2. Scales warmed and zeroed	____
3. Hangar doors closed	____
4. Aircraft level	____

The above items have been completed under my supervision

_____

Signed Date

ACCOMPLISHED	TASK	AIRCRAFT CARD NO / TITKE
	Operational	**08-200-00-W / AIRCRAFT WEIGHING**