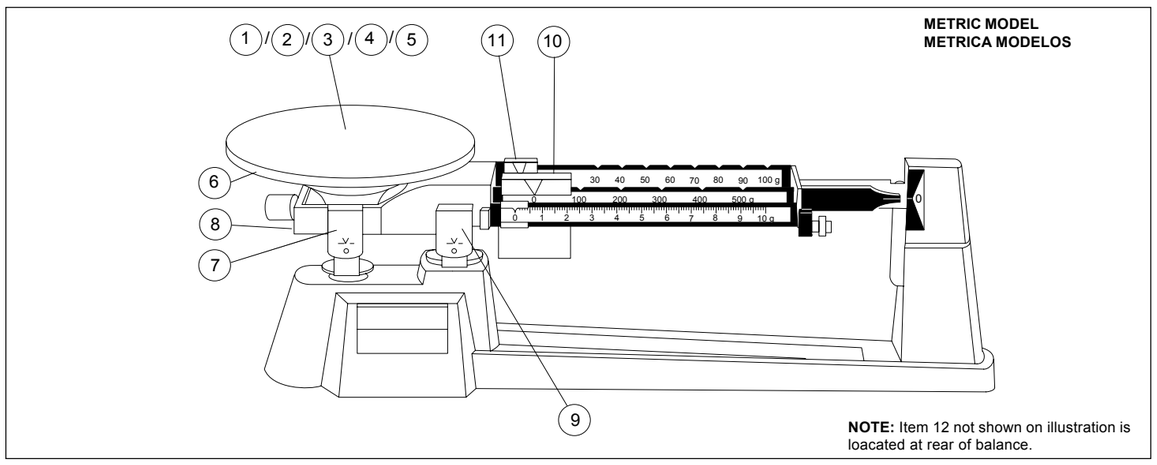
REPLACEMENT PARTS LISTS

IDENT. NO.	PART NO.	DESCRIPTION	REQD	MODELS
1	3045-00	Scale Plate SST - 6" dia.	1	750-S0 750-SW 760-00
2	1039-02	Scale Pan 6" dia. x 3/4"	1	710-00 710-T0
	1064-30	Cross	1	
3	80250400	Scoop, SST 12" x 6 2-3/4" deep	1	720-S0
4	1101-20	Scoop, Polypropylene 12" x 6" x 2-3/4" deep	1	730-00
5	3043-20	Specimen Pan	1	730-00
	3052-00	Cover	1	
	2570-21	Cross	1	
6	1023-10	Balance Cup	1	All
7	1034-00	Friction Plate	3	All
	1247-00	Friction Plate w/Tab	1	
8	1008-05	Bearing	4	All
9	1035-03	Bearing Cover	4	All
10	3134-02	500g Poise Assembly	1	All
11	3135-21	100g Poise Assembly	1	All
12	9704-00	225g Tare	1	760-00 710-T0

Accessories

183-00 Specific Gravity Rod and Clamp
703-00 Footed Polypropylene Scoop, 12" x 6" x 2-3/4" and Counterweight
703-S0 Footed Stainless Steel Scoop,12" x 6" x 2-3/4" and Counterweight
706-00 Vinyl Dust Cover
707-00 Metric Attachment Weight Set: two 1000g, one 500g



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NOTE: Item 12 not shown on illustration is loacated at rear of balance.

LIMITED WARRANTY

Ohaus products are warranted against defects in, materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period Ohaus will repair, or, at its option, replace any component(s) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to Ohaus.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product or as a resuft of service or modification by other than Ohaus. In lieu of a properly returned warranty registration card, the warranty period shall begin on the date of shipment to the authorized dealer. No other express or implied warranty is given by Ohaus Corporation. Ohaus Corporation shall not be liable for any consequential damages.
As warranty legislation differs from state to state and country to country, please contact Ohaus or your local Ohaus dealer for further details.

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Triple Beam Balance

Instuction Manual
Please read this manual before you use your Ohaus Triple Beam Balance.

Unpacking:

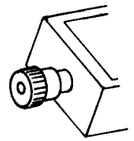
Carefully remove the balance and the separate poise (sliding weight) from the protective carton. You will find a slit rubber washer lodged underneath the platform, and one rubber washer located above the pointer. The washers are to be removed from the scale.

Set-up:

After placing the balance on a smooth, flat surface, slide the separate poise up into the slot on the back of the center beam. Tilt poise over into place on the beam. With all poises in zero position, the pointer should be near zero. On applicable models, the tare poise (13) shall be at the extreme left of its bar.

Zeroing:

For exact zero, adjust the knurled knob which is located at the left end of the beam. It is advisable to check the zero adjustment periodically.

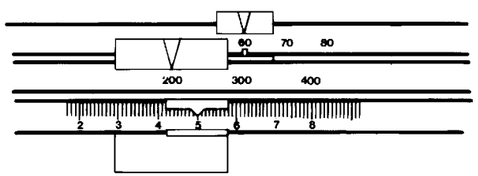


Weighing:

Place the specimen on the center of the platform and proceed as follows:

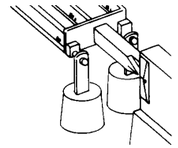
1. Starting with the largest capacity beam (500 g), move the 500 g poise to the right to the first notch which causes the pointer to drop, then, move it back one notch, causing the pointer to rise.
2. Repeat procedure with the 100 g poise.
3. Slide the 10 g poise to the position which brings the pointer to rest at zero.

The weight of the specimen is the sum of the values of all poise positions, read directly from the graduated beams.



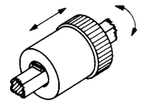
Attachment weights:

Total capacity is either 2610 grams or 5 pounds, 2 ounces when attachment weights are suspended from the pivots (14). Without the weights, the capacity is either 610 grams or 1 pound, 2 ounces.



Use of the tare:

Certain models are equipped with a patented tare poise (13). The poise will counterbalance empty containers no heavier than 225 grams or 8 ounces, by sliding it to the approximate balance, then rotating in either direction for precise positioning. Net weight of the contents of the container may then be read directly in the usual manner.

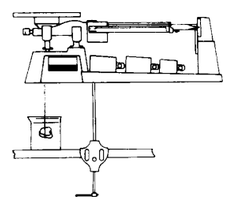


Care and maintenance:

Keep balance clean at all times. In general, most foreign matter may be easily removed by an air syringe, but a piece of adhesive-backed tape pressed against the magnet faces will keep them free from dirt. Never apply lubricants to knives or bearings, nor allow foreign matter to accumulate.

Specific gravity determination:

The Model 183 Clamp and Rod Support is an accessory for elevating the balance for suspending specimens in water. The rod is inserted into the 1/2 inch (12.7 mm) recess on the underside of the base. By means of a fine wire or thread, the specimen is attached to the check pin which connects the check rod assembly to the platform loop under the base.



Formulas:

Solids - (denser than water): To determine specific gravity of solids denser than water, the specimen should be first weighed in air and then weighed immersed in water.

$$\frac{\text{Weight in air}}{\text{Weight in air minus weight in water}}$$

Solids - (less dense than water): To determine the specific gravity of solids less dense than water, it is necessary to attach a sinker and then make the following weighings:

a. Weight of body in air.
b. Combined weight of body in air plus sinker in water.
c. Weight of both body and sinker in water.

$$\frac{a}{b - c}$$

Features:

- A low cost, maintenance-free balance which provides all the convenience of a top loader, yet retains the ruggedness needed for a wide range of lab work.
- Tiered beam visibility and zero adjust combine to give high speed performance and reduce error.
- Magnetic damping speeds up weighing by causing the beam to come to rest quickly without affecting sensitivity or accuracy. It operates on the principle of a permanent magnetic field resisting the motion of a non-magnetic, aluminum damper vane attached to the beam.

The pole faces of the damping magnets are positioned on both sides of the damper vane. Damping force is proportional to vane velocity and reduces to zero when the beam stops, thereby turning itself off.
The system is permanent, self-regulating, maintenance-free, frictionless and effective at all loads.

- Tare beam and poise (13) (on specific models) make repetitive weighings and chemical formulations easy by eliminating container weight from calculations.
- Attachment weights store conveniently in the base when not in use.

Specifications	**700 Metric Series**
Capacity	
w/attachment weights	2610g
w/o attachment weights	610g
Readability	0.lg
Calibrations	
Front Beam	10g x 0.1g
Center Beam	500g x 100g
Rear Beam	100g x 10g