

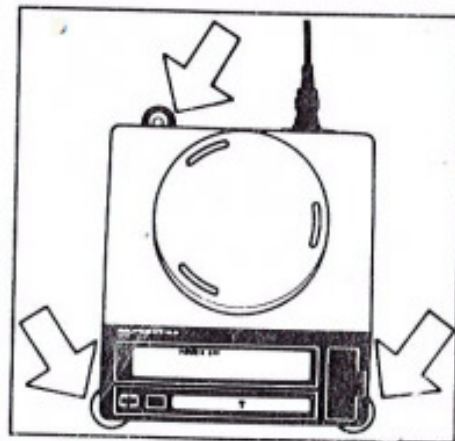
# Balances: general informations

## Good practices of weighing balances

- Balance settings : range, minimum weight, precision
- Environmental factors : table of weighing, airflow, temperature, hygrometry, electrostaticity > minimize their influence
- Instructions for use and check in application
- Switch on the balance if sleep mode (no preheating)
- Check the level (bubble)

### 5- 1 Mise à niveau de la balance

- Vérifier que le niveau de la bulle, situé en arrière côté gauche de la balance, est centré (voir figure ci-dessous). Si besoin, tourner les 2 pieds de réglage à l'avant de la balance jusqu'à ce que la bulle d'air soit centrée par rapport à l'anneau du niveau à bulle.



Extract of the instruction « CONS\_Utilisation de la balance H160\_02 »

## Good practices of weighing balances

- Make sure of the cleanliness of the tray > use brush
- Make sure that the internal calibration was well made (ENR form)
- Make sure that the sample is at ambient temperature
- Centring the weighing sample
- Close doors
- Tare > readability (0,1-0,01mg), do not tare container to minimize the error in weighing < 10mg
- Perform weighing
- Wait for a few seconds the stabilization
- Print or write your result
- Remove your container then put the balance to zero
- Clean the scale and bench

## Balances Technical Informations (reserve laboratory 4282)

Scales models	Range	Fine range	Readability	Minimum weight	EMT
XP105DR	120g	31g	< 31g : 0.01mg - >31g : 0.1mg	1mg	weight 1mg => +/-0.03mg weight 100g => +/-0.6mg
AG204DR	210g	81g	< 81g : 0.1mg - >81g : 1mg	10mg	weight 10mg => +/-0.2mg weight 100g => +/-1mg
H160	161g	-	1mg all over the range	1g	weight 1g => +/-5mg weight 100g => +/-10mg

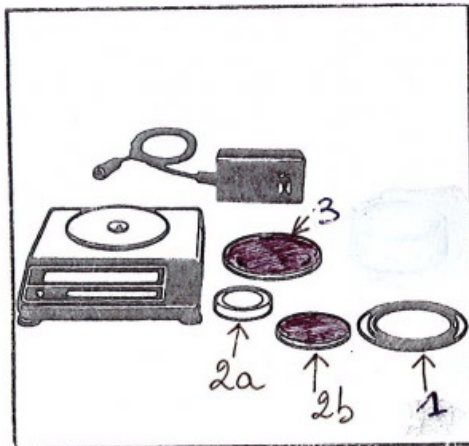
## A few rules to follow when cleaning a balance

- During “recurrent tasks” and after weighing
- Place a paper dampened with water and another paper with 70% ethanol on the various elements of the balance, if necessary let dry before weighing



Never spill liquid on the tray of a balance

H160 example:



- 1- Anneau de protection
- 2- Support de plateau (2a et 2b)
- 3- Plateau de balance

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de la balance H160\_02 »

L'ordre de montage des différents éléments est le suivant :

- Placer l'anneau de protection (n°1 sur le schéma)
- Placer le support 2a (rebords vers le haut) et adapter sur celui-ci l'élément 2b en s'assurant que les rebords soient à l'extérieur
- Puis placer le plateau de balance (n°3 sur le schéma)

## Practical cases

### Unstable weighing:

- increase (hygroscopic product > fast reading)
- decrease (product too hot or volatile > freeze drying or desiccation)
- oscillation (variation of the surrounding environment: vibration, temperature)