

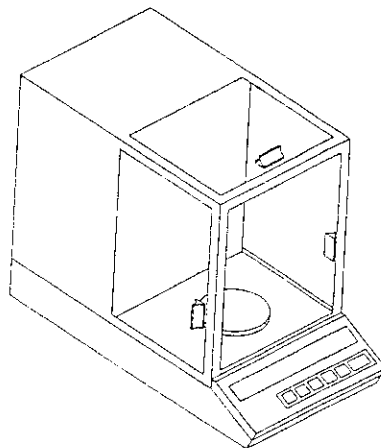
This equipment complies with the requirements in Part 15 of FCC Rules for a Class A computing device. Operation of this equipment in a residential area may cause interference in which case the user will be required to take whatever measures may be necessary to correct the interference at his own expense.

NOTICE

A-SERIES

Electronic Analytical Balances

Operating Instructions



Fisher Scientific

700122.2

Congratulations on choosing a **Fisher Scientific A-Series Balance**. Your **A-Series Balance** is a precision unit designed and engineered to the most rigorous standards in order to give you years of weighing service.

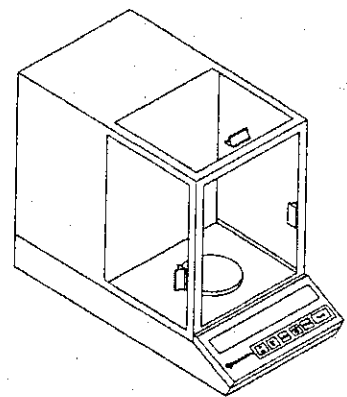
- ☒ First, check the contents of the shipping carton. You should find the following:

- A-Series Manual
- A-Series Balance
- Weighing Pan
- Power Cord

- ☒ Next, follow the instructions for installing your balance. (See pages 4 -5.)

- ☒ Now you're ready to begin using your **A-Series Balance**. To take advantage of its many features, carefully read your operating manual. It contains step-by-step procedures, examples, and other vital information.

- ☒ Finally, remember to return your completed warranty card within ten days and to record all purchase information in the space provided inside the front cover of your manual.



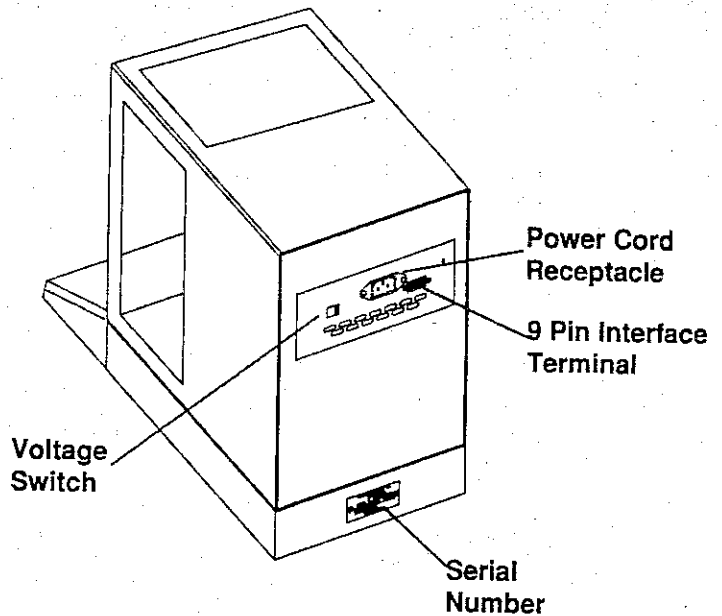
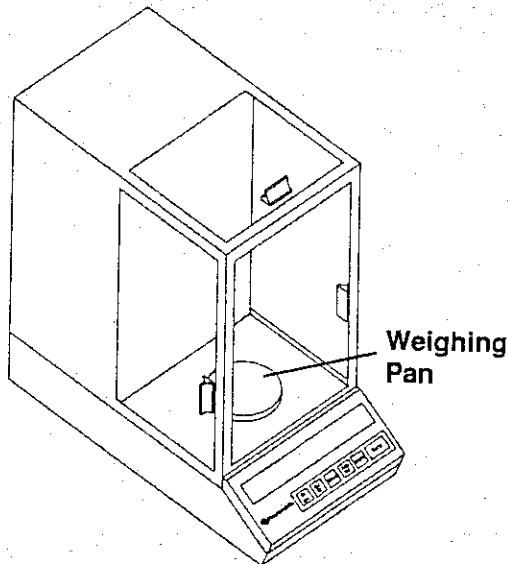
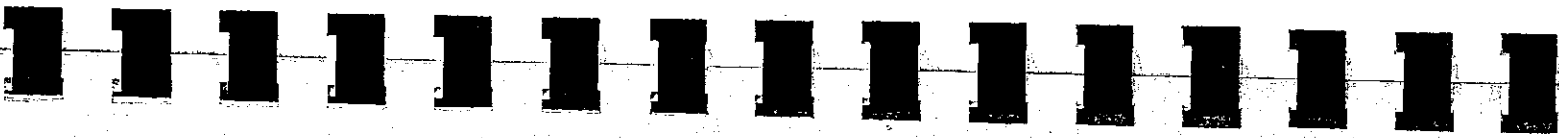
Fisher Scientific A-Series Balances

Specifications

Model	A-160	A-250	A-200D	A-200DS
Capacity	160g	250g	200g/100g	200g/31g
Readability	0.1mg	0.1mg	1/0.1mg	0.1mg/0.01mg

Common Specifications and Features For All Fisher Scientific A-Series Models

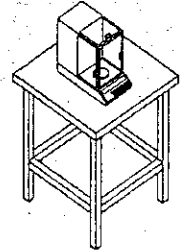
Electrical Requirements 115/230 vac 50/60 Hz
 Response Time Variable,
 Controls Silicone Rubber Keyboard, 5 Keys plus Tare
 Display, Numeric5" Vacuum Fluorescent, seven segment character
 Display, Message25" Vacuum Fluorescent, 14 segment, 10 characters
 Pan Diameter 3 1/4" (8.25 cm)
 RS-232 Bi-directional Interface, 5 different formats
 Automatic Calibration with built-in weights



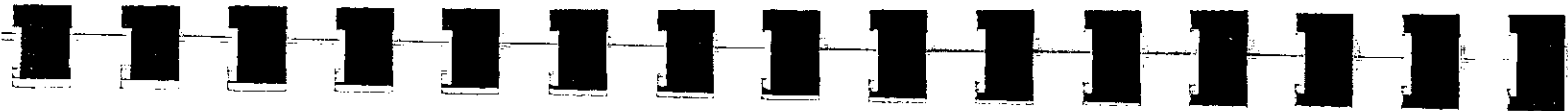
PREPARATION

Select a suitable work area.

- ☐ Work area should be relatively free from drafts and vibrations.
- ☐ Work surface should be level and rigid.
- ☐ Line voltage to the balance should be reasonably constant and free from fluctuations. It is **not** advisable to use an outlet that is shared with fluorescent fixtures or other electrical equipment that draws voltage in an inconsistent manner.
- ☐ Do **not** locate near magnetic materials or equipment/instruments which use magnets in their design.
- ☐ Avoid areas which have variations in room temperatures or have excessive room temperatures. Room temperatures above 105°F/40°C or below 60°F/15°C could affect balance operation and accuracy.




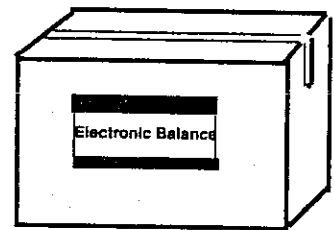
Choose your work site carefully to obtain the best weighing results.



INSTALLATION

Set up your balance by following these steps:

- ☐ Remove balance and all accessories from the carton. There is no internal packing or tie downs inside the balance.
- ☐ Level the balance by using the level bubble and the leveling feet located underneath the base.
- ☐ Place the weighing pan on the balance.
- ☐ Insert power cord into the receptacle located on the rear panel of the unit. Firmly push in the plug.
- ☐ Balance model designation is displayed during start-up message.
- ☐ Allow a **60** minute warm up period.
- ☐ Do **not** unplug your balance. **Fisher Scientific** Electronic Balances are designed to be continuously plugged in.
- ☐ When the unit is **not** in use, press the  key to turn the displays **OFF**.



This is a precision electronic instrument. Handle with care to ensure years of trouble-free use.



GENERAL INFORMATION

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GENERAL INFORMATION

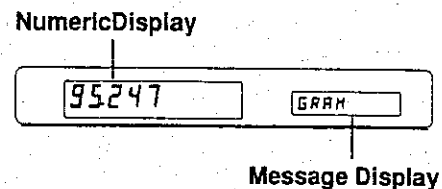
Dual Display

Your balance features two displays (a Numeric Display and a Message Display) to give you complete weighing information.

Numeric Display

The Numeric Display continuously shows your weighing results.

The number of decimal places displayed depends on the balance model.



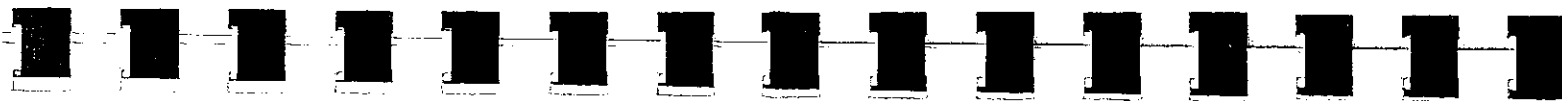
Message Display

The Message Display uses text to clearly provide weighing information.

During a weighing application, the Message Display continues to show the weighing mode, *GRAM*.

During the Set Up procedures, the Message Display shows the options as you cycle through the selections.

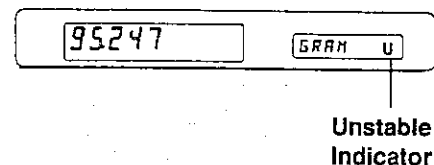
Whenever the balance is unstable, an indicator (U) appears on the far right side of the Message Display. When the balance has stabilized, the indicator disappears.



Unstable Indicator

Always make sure your balance is stable before and after each step of your weighing operation.

The letter *U* appears on the far right of the Message Display whenever the balance is **not** stable. It disappears when the balance becomes stable.



Beeper

An audible BEEP is emitted whenever a function is activated. This signal ensures you that the key you pressed is working. If you press a key and a BEEP is **not** heard, press the key again until the BEEP is heard. However, some keys are disabled in some functions and therefore will **not** BEEP.

To turn the BEEPER *OFF* or adjust its length, see the **Set Up-Display** Section.