

# Model K02002 & K02003 Rack Mount Kits

## Installation Instructions

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### Introduction

The **SIGNAL RECOVERY** model K02002 rack mounting kit is designed to allow one model 7220 or 7225 lock-in amplifier to be mounted in a standard 19" rack. The model K02003 serves the same purpose for the model 7260, 7265 and 7310 instruments.

### Components Supplied

Before starting to fit the rack mount kit to the instrument, please check that you have the following parts:

- a) One rack mounting tray
- b) One front panel
- c) Four M3 × 16 mm Posidriv instrument mounting screws
- d) Four #4-40 × 5/8" Phillips head instrument mounting screws
- e) Two M3 × 6 mm countersunk front panel fixing screws
- f) Four M6 × 16 mm (fixing screws to 19inch rack)
- g) Four M6 plastic cup washers (for use with item f)

If any of these items are missing, contact your local **SIGNAL RECOVERY** office or agent before proceeding.

### Procedure

- a) Turn off the instrument and disconnect any cables connected to it.
- b) Place a large, thick book, catalog, or similar (approx. 1" (25 mm) thick and of US Letter (A4) size) on a flat surface to form a raised "platform".
- c) Pick up the instrument, turn it upside down and rest it centrally on the raised platform, with the front panel facing towards you.
- d) Using a Posidriv/Phillips screwdriver of suitable size, remove the screw and crinkle washer from each of the four plastic feet assemblies, and remove the feet.

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- e) The type of thread used for the feet fixing screws depends on the instrument build standard. Most instruments have holes tapped with M3 threads at all four positions, but some units have the two holes at the rear tapped #4/40 while the front pair remain as M3. You therefore need to select a suitable set of four screws (from the eight that are supplied) to match the tappings on the unit you are mounting.
- f) Take the main rack tray assembly and identify the four mounting bosses in its base, the holes in which are designed to align with the tapped holes in the instrument revealed by removing the feet in section d) above.
- g) Invert the assembly and, with the two flanges facing towards the instrument's front panel, carefully slide it down over the instrument so that the holes are aligned.
- h) Fix the assembly to the instrument's base using the four instrument mounting screws selected in section e) above.
- i) Take the rectangular plate and place it so that it fits snugly around the instrument's front panel, with the wider horizontal section uppermost and the countersunk screw holes facing outwards. When it is correctly positioned the screw holes will line up with the tapped bushes in the two flanges.
- j) Fix the plate in position using the two M3 × 6 mm countersunk front panel fixing screws supplied.
- k) Supporting both the instrument and the rack kit, carefully invert the complete assembly.
- l) It is suggested that the four feet assemblies, fixing screws and crinkle washers removed in section d) and the other spare screws be placed in a small plastic bag which can then be taped to the horizontal stiffening bar across the back of the assembly. This will ensure that the feet will be to hand if ever it is required to remove the instrument from the rack and return it to free-standing use.

This completes the installation of the kit. The instrument is now ready to be mounted into a suitable rack.

***Caution: The complete assembly is quite heavy and so we recommend that it be supported at the rear.***

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**AMETEK® SIGNAL RECOVERY**

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