

## Flexrack Module Installation & Removal

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### Installation & Removal

The Flexrack unit relies on convection cooling of its external surfaces to remove the small amount of heat dissipated inside. Although specific cooling measures are unnecessary it is recommended that, when installing the unit into a rack, the top and bottom surfaces of the Flexrack not be entirely shielded from free air.

Disconnect mains power from the Flexrack chassis then remove the lid retaining screws and the lid itself. The exact number of screws to be removed will depend upon how many modules are already fitted and whether one or two pairs of rack ears are in use. Retain the screws in a safe place for reuse.

Modules are added sequentially, moving away from the power supply. The Flexrack FR-RK1 chassis can house up to four modules. If the first unoccupied position has blank panels installed, remove the screw retaining each blank panel and then the panels.

Locate the new module into the unoccupied chassis position nearest the power supply, with its controls and indicators facing the same direction as the "power on" indicator and its connectors facing the same direction as the mains input socket. Use the four board fixing screws to secure the module to the chassis pillars and two of the four panel fixing screws to attach the module panels to the chassis base (see Fig.1).

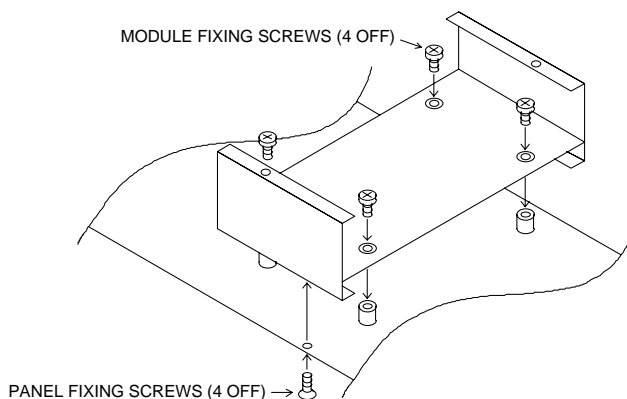


FIG.1: INSTALLATION OF MODULE

Each module board has two 20-pin connectors carrying power through the unit via a series of short ribbon cables. The connector nearest the power supply receives power from either the previous module in the chain or, for the first module to be installed, from the power supply itself, while the other connector supplies power to modules further down the chain.

For the first module to be installed, there will already be a ribbon cable attached to the power supply module. Simply connect the unused end to the nearest 20-pin connector on the module being installed (see Fig.2).

If other modules are already fitted to the chassis, locate the ribbon cable supplied with the new module. Referring to Fig.2, connect it between

the 20-pin connector *furthest* from the power supply on the adjacent existing module and the 20-pin connector *nearest* the power supply on the new module. The ribbon is symmetrical and can be fitted either way around, though to comply with accepted convention the red conductor should face the front panel of the module.

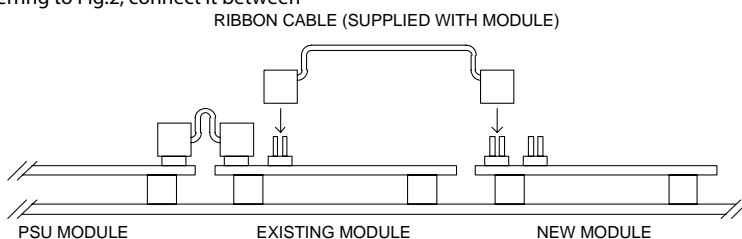


FIG.2: CONNECTION OF POWER SUPPLY RIBBON CABLE

VIEWED FROM FRONT OF RACK

Replace and secure the lid before reapplying power. The remaining two panel fixing screws supplied are used to secure the module panels to the chassis lid.

Removal of modules is the reverse of the installation procedure described above. Pairs of blank panels to fill unused module positions are available from your ProAVM distributor.

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