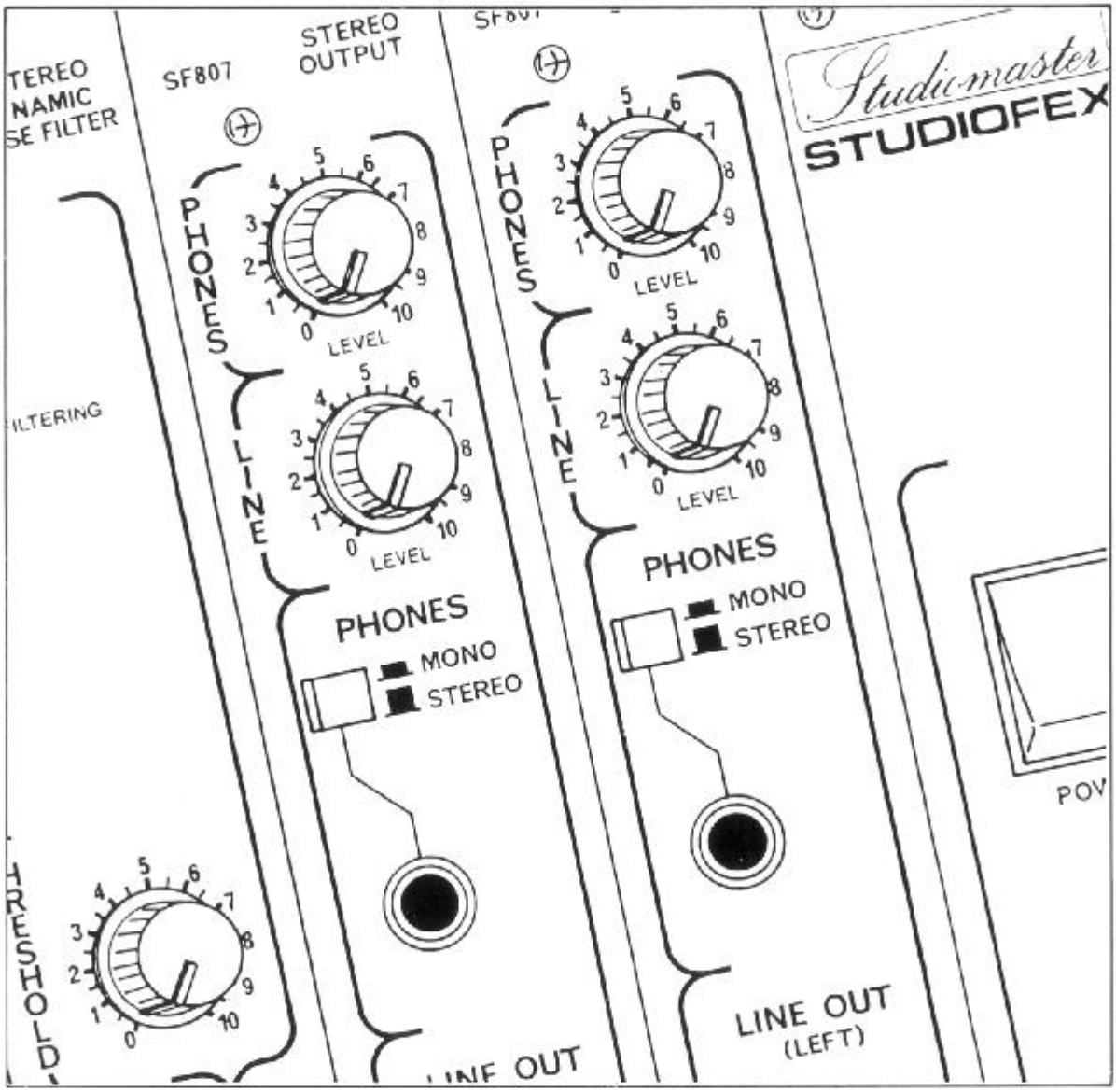
Studiomaster Studiofex

Mother Unit



Owners Manual

Studiofex Mother Unit

CONTENTS

STUDIOFEX is a fully modular studio effects system which brings together both the features and the performance which today's music demands. To get the best from STUDIOFEX, familiarise yourself with all of its features by reading these instructions thoroughly.

This instruction manual applies only to the **STUDIOFEX MOTHER UNIT.** STUDIOFEX modules are supplied with further instructions.

Do not switch ON the STUDIOFEX until reading the next section.

Important!

On the rear of the MOTHER UNIT is a voltage selector/AC input/AC fuse assembly:

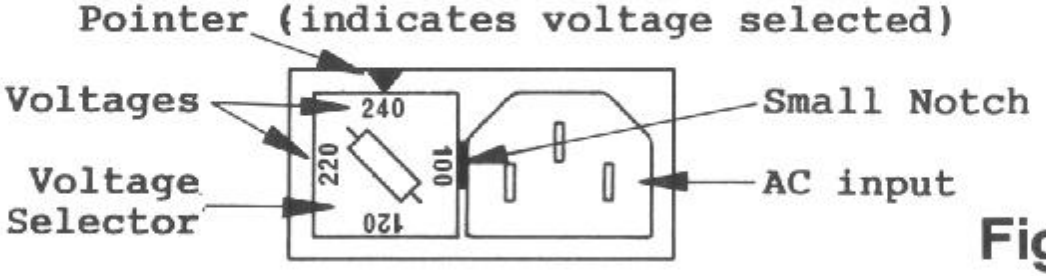


Fig 1

The voltage selector (the square shaped part which can be levered out) contains the AC fuse.
NOTE: A STUDIOFEX with the AC lead connected straight into it (no socket and connector) is fixed at 100V to 120V AC input, and cannot be changed. The fuse is rated at T5A 250V.

The voltage selection procedure is as follows:

1 Check that the pointer (refer to FIG 1) is pointing at the local supply voltage (100, 120, 220 or 240V stamped on the voltage selector). If it is, then go ahead and connect the AC lead to the unit and switch on.

2 If the voltage indicated is wrong, lever out the voltage selector (the small notch is for this purpose).

3 Turn the selector round until the pointer points at the correct voltage, then press it back in.

4 There is a fuse inside the voltage selector. This is the AC fuse and is rated at T3.15A 250V for 220/240V supplies and T5A 250V for 100/120V supplies.

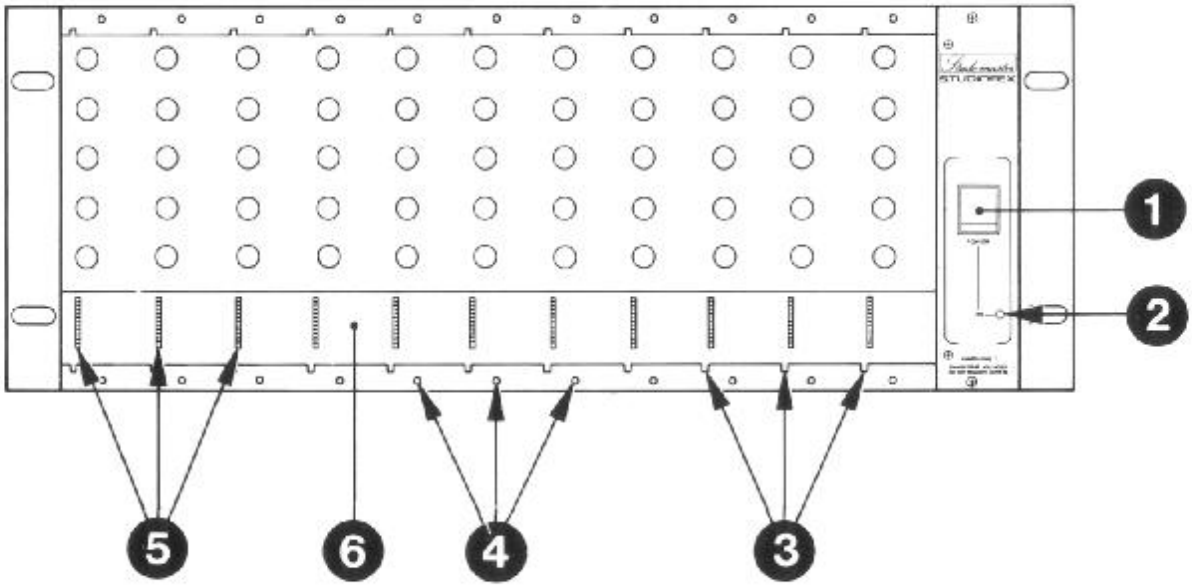
5 With the voltage selector in the correct position, go ahead and connect the AC lead to the unit and switch on.

FRONT (see FIG 2)

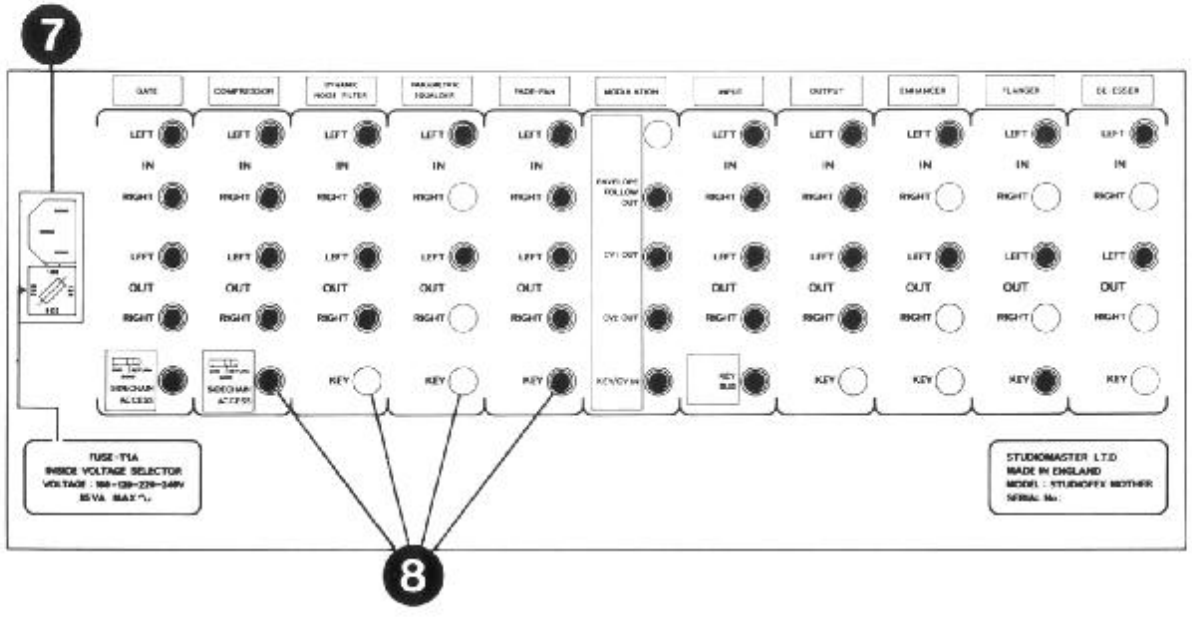
1 The **POWER SWITCH** energises the whole system, and is indicated by the **POWER** LED (2).
2 The **POWER** LED lights when the power is switched on.
3 The **CARD GUIDE SLOTS** ensure that fitted modules are correctly aligned for connection to the wafer connectors on the backplane.
4 The **PANEL FIXING BUSHES** are used to secure the modules by means of special screws supplied with each module.
5 The **WAFER CONNECTORS** supply DC power to the modules, and also provide some signal routing.
6 The **BACKPLANE** carries all of the wafer connectors, providing interconnection between them.

REAR (see FIG 3)

7 **AC POWER INPUT/VOLTAGE SELECTOR/AC FUSE.** Standard IEC socket. Described in 1:1.
8 **MODULE SOCKET APERTURES.** When a module is fitted into the mother unit, its jack sockets become accessible through one vertical row of these apertures.



Front **Fig 2**



Rear **Fig 3**

INSTALLING A MODULE

The STUDIOFEX MOTHER UNIT will house up to 11 standard width Studiofex modules, all of which take their DC power from the mother unit via the wafer connectors on the backplane. Care should be taken to ensure that these connectors do not become bent or damaged. Any unused module positions should be blanked off using blanking panels to give protection to the internal components.

To install a module, firstly make sure that the power is switched off. Then locate the circuit card of the module squarely into the top and bottom guide slots at the desired position in the mother unit. Gently slide it in. If the module comes to a stop part of the way in, gently move it from side to side so that the rear of the card is guided into the rear slots. Now push it fully in. If resistance is felt at this stage, remove the module, and check that the wafer connector has not become damaged. Once the module's front panel is located flush with the front of the mother unit, fix it in place with the special black posidrive screws supplied with it. The bushes into which the screws are fitted are initially unthreaded, so when first used some resistance will be felt as the special screws cut a thread.

NOTE: Make sure the screws go in straight. DO NOT overtighten. Use only the screws provided: STUDIOMASTER Part No FX07018.

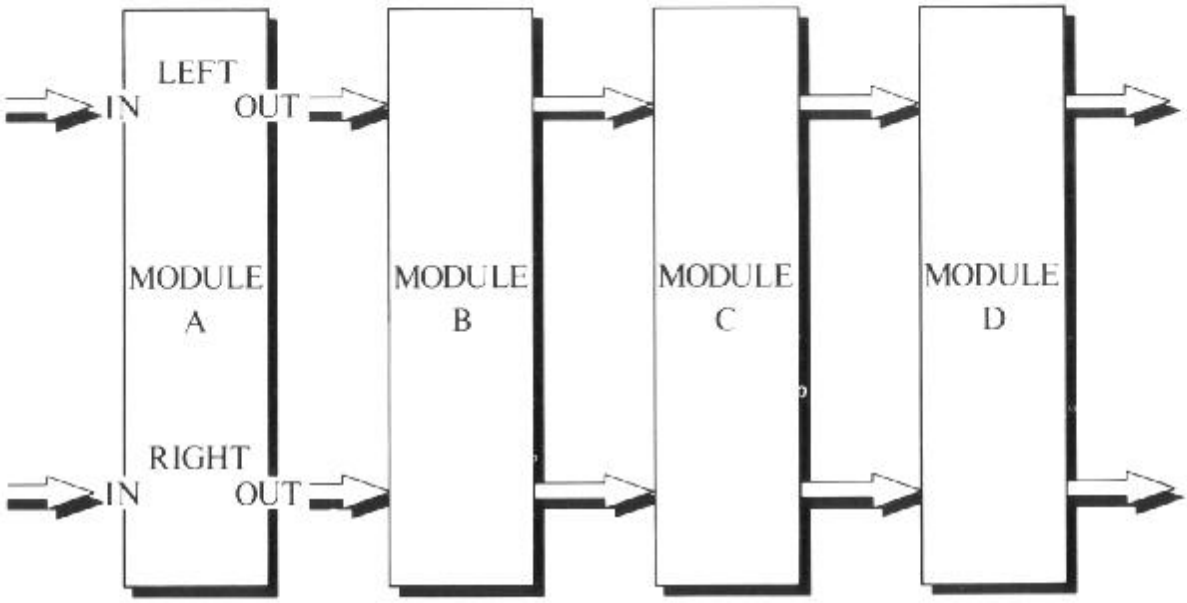
MODULE IDENTIFICATION

A sheet of self adhesive labels is supplied with each module to enable identification from the rear of the mother unit. Cut the appropriate module name from the sheet and stick it above the module's jack sockets on the

rear of the mother unit. The sockets on some of the modules do not conform to the standard printing on the rear of the mother unit. For these modules, an additional label is supplied on the sheet, which should be positioned to cover the standard printing.

SIGNAL ROUTING SYSTEM

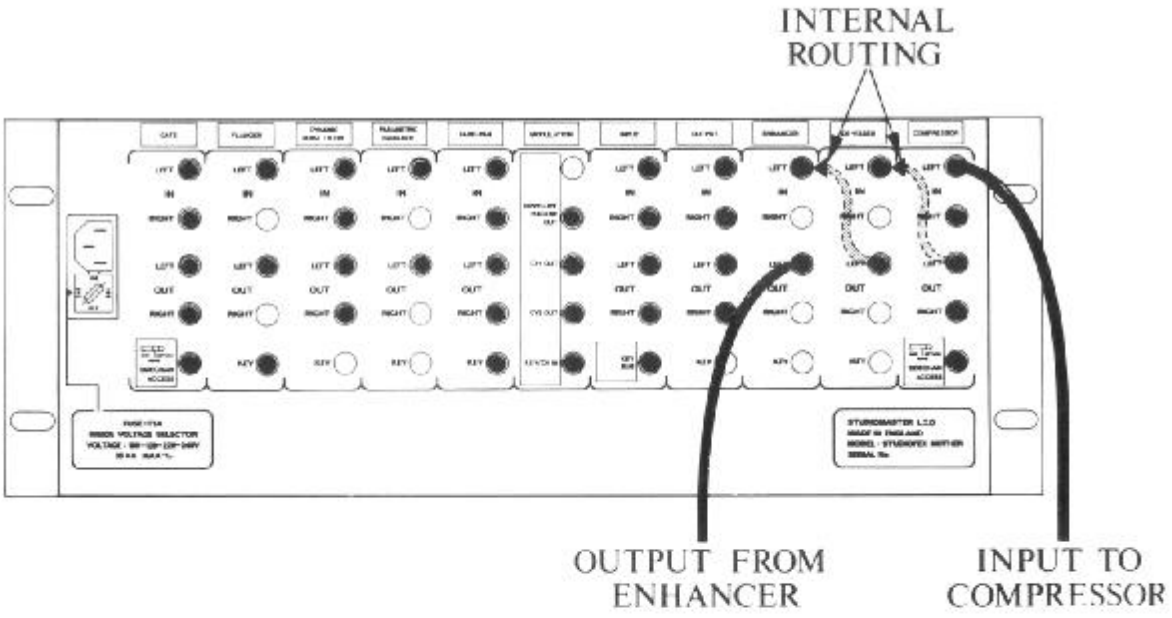
The mother unit incorporates a signal routing system which routes the output from a module to the input of the module to its right. The modules are therefore permanently connected in a "daisy-chain" fashion (see FIG 4). The position of the **IN/OUT** button on each module



Signal routing system **Fig 4**

determines whether the module is IN the chain or OUT. Inserting a jack plug into any input or output jack will break the chain at that point, allowing individual effects to be patched into a mixing console, or a patch-bay. The continuous interconnection between modules also allows groups of modules to be patched in.

For instance (see FIG 5) for a vocal treatment SF801 (compressor), SF810 (de-esser), SF808 (enhancer) may be patched as a group to the mixing console by positioning them in that order in the mother unit.



Module grouping

Fig 5

To patch, the send from the mixing console would be connected to the input of the SF801, and the output of the SF808 would be connected to a mixing console return point. Certain modules also have the capability for stereo operation. Mono modules become routed into the left channel chain, unless the jack sockets are used to override this. The right channel chain is not interrupted by a mono module, so it passes through unaffected. Some modules also have a switchable **KEY** input which is accessible not only via a KEY input socket on a module, but also from a common key buss on the backplane. Any KEY input can be accessed from a key buss socket on the SF806 (input interface).

MODULE CAPACITY

The power supply built into the mother unit is designed to supply any combination of modules fitted.

Specifications

POWER

Power consumption: Typically 35VA maximum
AC power input voltages: 100, 120, 220, 240VAC selectable (50/60Hz only)
DC module voltages: +15V and -15V

DIMENSIONS

483mm wide x 176mm high x 139mm deep
19" wide x 6.9" high (4U) x 5.5" deep

Net Weight: 4.5kg approx (with no modules fitted)
Net Weight: 7.3kg approx (11 modules fitted)

Service

Should your STUDIOFEX develop a serious fault, DO NOT attempt to rectify it yourself. Service work should only be carried out by qualified and experienced Service Engineers.

For this work to be done, consult the dealer from which you purchased your STUDIOFEX or alternatively contact the Service Department at the address below:

The Service Department

STUDIOMASTER
Studiomaster House
Chaul End Lane
Luton
Bedfordshire LU4 8EZ
ENGLAND

TEL: 0582 570621
INTERNATIONAL TEL: +44582 570621
TELEX: 825612 STUDIO G
FAX: 0582 570242
INTERNATIONAL FAX: +44582 570242

Or in U.S.A and Canada:

STUDIOMASTER INC.
1340-G Dynamics Street
Anaheim
CA-92806
U.S.A

TEL: (714) 524 2227
FAX: (714) 524 5096

The contents of this manual are correct at the time of going to press. The manufacturer reserves the right to change specifications and features without prior notice.

Studiofex Errata

MOTHER UNIT OWNERS MANUAL

ERROR

Page 2 The AC fuse found in the voltage selector should be T1A 250V regardless of the local AC supply voltage **NOT** T3.15A or T5A 250V as quoted.

On no account should the T1A 250V rating be exceeded, as this could result in damage to the equipment.

ADDITION

Page 3 No.8 **MODULE SOCKET APERTURES.** Modules with less than five jack sockets are supplied with 0.25" blanking plugs, one for each unused aperture. These should be fitted to the Mother Unit once the module has been fitted.

The blanking plugs will prevent jack plugs being accidentally inserted into unused apertures and possibly damaging components in the module.

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