SECTION 7

MIXER DESK PANEL PA8/507

Introduction

This panel forms part of a continuity control desk (see Studio Video Mixing Equipment EP5/503, Instruction V.15); it is used for the remote control of up to six video signals and for the direct control of up to ten sound signals. Inputs to, and outputs from, the panel are sound signals and d.c. control signals.

The video and sound faders are arranged so that they provide controls for a maximum of 12 channels; two or three independent video channels, three or four combined channels (sound and video faders adjacent) and up to six independent sound channels. When three independent video channels are provided, only three combined channels can be accommodated.

The panel carries:

- 6 video faders
- up to 10 sound faders
- 12 cue and control Honeywell pushbuttons (one for each channel)
- 2 or 3 *Cut* buttons (one for each independent video channel)
- 6 *Non-sync* lamps (one for each video channel)
- up to 10 *Pre-hear* buttons (one for each sound channel)

The various connections to the PA8/507 are shown in Fig. 7.1. Interconnections between the panel and other units of the associated video mixing equipment are given in diagram (a) and connections between the panel and external circuits are shown in diagram (b).

Circuit Description

Video

The circuit of a video fader is given in Fig. 7.2; the plug connections shown are for the Channel-1 fader. The microswitches provide information about the setting of the fader for use in a control panel. The variable d.c. output from the fader is used to control the associated Cut-fade Amplifier AM1/508 in the video mixer; when the fader is in use for this purpose the fader lamps are illuminated.

Each cut-button operates two changeover contacts connected in parallel. When pressed, each button applies an earth to the associated cut-button relay on the control panel; when a channel is in the cut condition a feed from the control panel illuminates the cut-button.

Sound

The circuit of the sound fader is given in Fig. 7.3; the plug connections shown are for the first sound channel. When the fader is moved from the bottom end stop two microswitches are made; one of these provides a transmission cue and the other illuminates the fader lamps. Another microswitch,

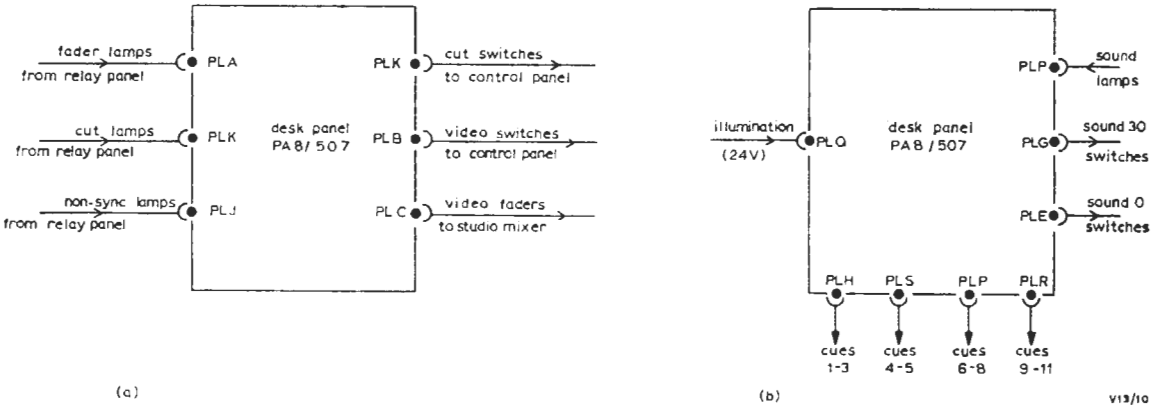

Fig. 7.1 Desk Panel PA8/507 Interconnections
(a) to other units (b) to external circuits

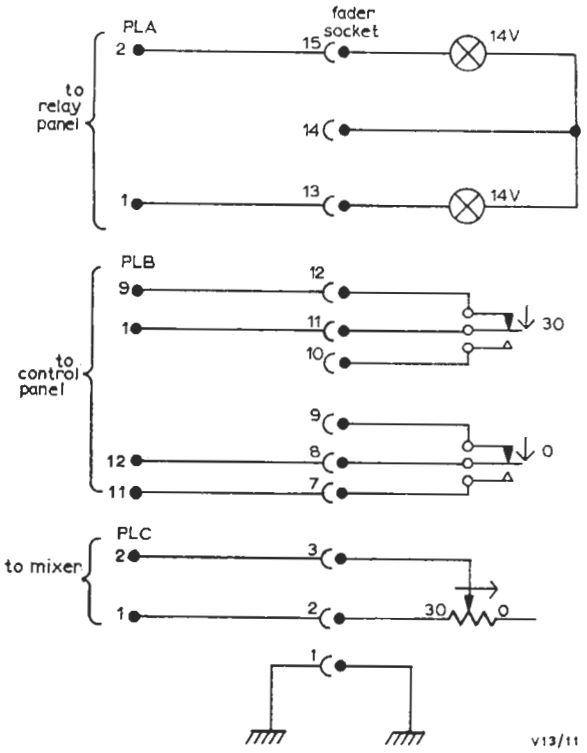

Fig. 7.2 Circuit of the Video Fader

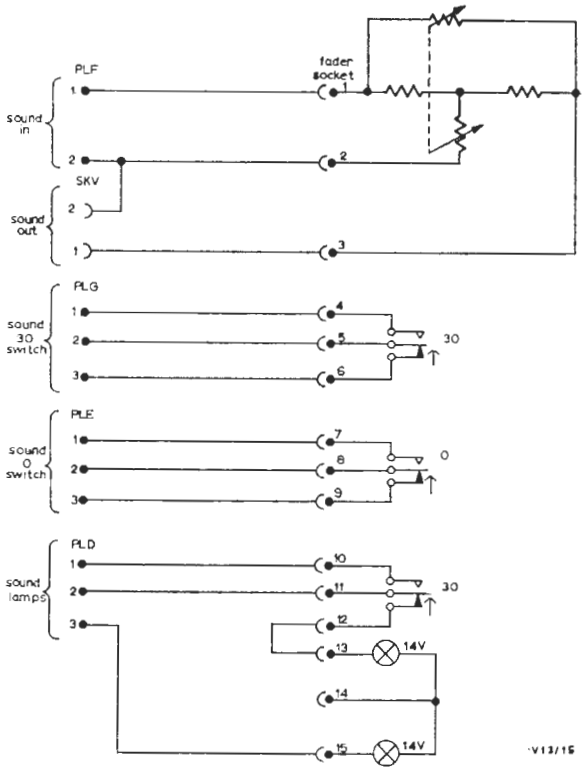

Fig. 7.3 Circuit of the Sound Fader

operated when the fader reaches its maximum setting, is not used in this application. The fader, a constant-impedance fader type PB22Q/5S, is mounted inverted with the scale reversed.

The pre-hear key associated with each sound fader permits a sound source to be monitored prior to selection.

Cue and Control Circuits

The facilities provided by the Honeywell push-button associated with each channel vary with the channel (i.e. whether video only, sound only or combined video and sound) and with the installation. For details see the relevant P.I.D. station drawings.

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