

# AVAYA

## M6500P

### RECORDER INTERFACE MODULE

USERS GUIDE

COMCODE: 406 631 739

PEC CODE: 8807-006

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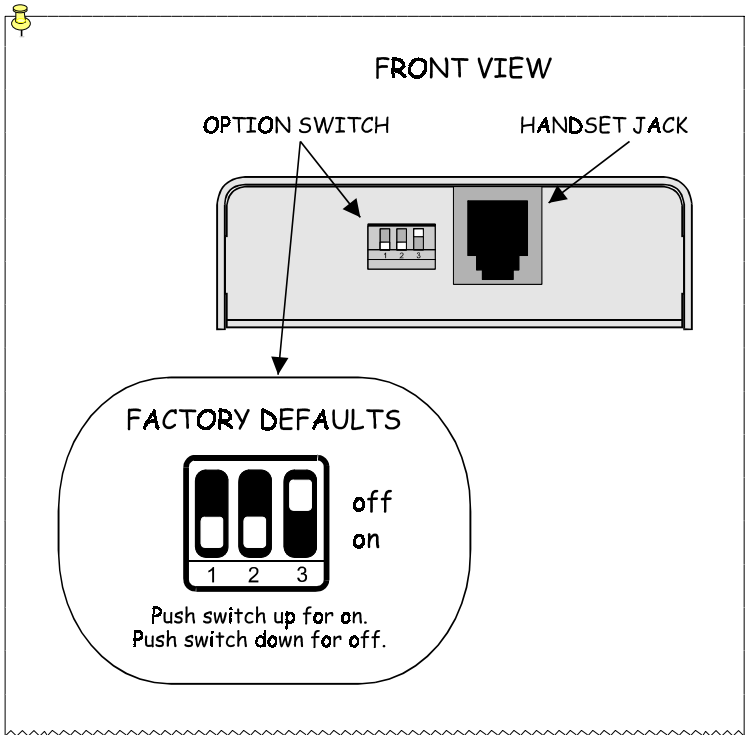


## General

The M6500 recorder interface module provides an analog audio output of voice communications for recording purposes. It is designed to operate with 6500 and similar series voice terminals. The M6500 produces a "beep tone" to remind the callers that the line is being recorded. Easy to set dip switches control the output level, beep tone, and switch-hook logic.

## Setting the options

All of the options on the M6500 are selected by the 3 position dip switch located in the end of the unit. The factory default settings are: 1 on; 2 on; 3 off.



## Quick Start!

Check that the factory defaults are still set. From LEFT TO RIGHT the switches should be set as: down, down, up. Toggle the switches up or down as required to match this configuration.

### Phone Connection

Unplug the handset cord from the voice terminal and insert it in the modular handset jack on the M6500. Connect the "pigtail" from the M6500 to the handset jack on the voice terminal.

### Recorder Connection

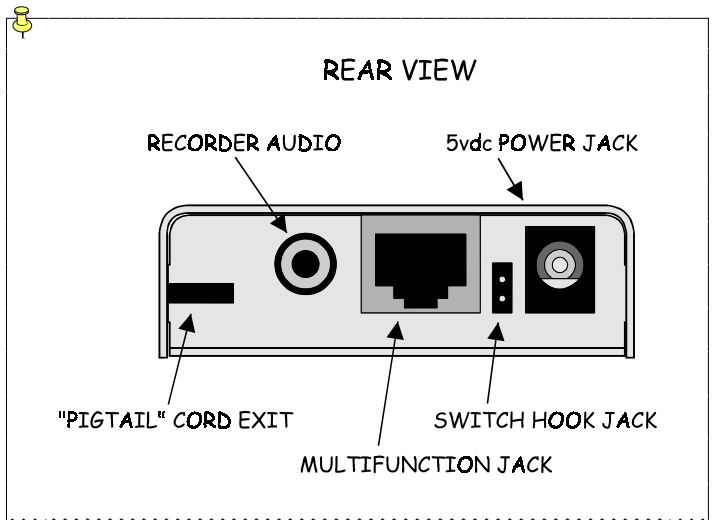
Connect an audio cable (mini-phono type) to the jack on the M6500. Plug the audio cable into the appropriate input jack of the recorder, such as a "MIC" or "LINE" input.

### Power

Connect the AC adapter to the EXT PWR jack on the rear of the M6500.

### Record a Call

Set the recorder to record. Place a call as normal. An audible beep should be heard approx. every 12-15 seconds. When the call is complete, turn off the recorder. Verify that a good recording has been made.



## ***Routine Installation***

### ***Voice Terminal Connections***

Place the module in a location which allows its handset plug to reach the handset jack on the voice terminal. Adhesive strips are provided for attaching the module to the voice terminal or other suitable surface.

If you plan to use the switch-hook to activate additional features, you may wish to connect the switch-hook lead to the voice terminal before mounting the M6500, since it will be necessary to open the voice terminal to attach the switch-hook lead.

Remove the existing handset and cord from the voice terminal and plug it into the modular handset jack on the M6500. Connect the handset plug from the M6500 "pigtail" to the handset jack on the voice terminal.

### ***Audio to Recorder***

The audio output jack on the M6500 is an 1/8" mini-phono type. It connects to a high impedance recorder input. Connect a patch cord from this output to the recorder's input. Switch 1 sets the output level.



If you are connecting to a remote recorder such as a data logger, install a single pair cable from the data logger to the voice terminal and use the mini-phono connector supplied with the M6500 to connect to the cable.

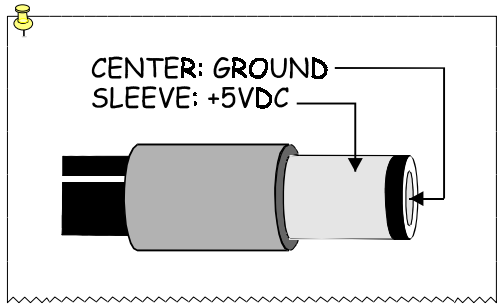
Alternate connections may be made using the modular jack on the M6500. See page 6, "Multifunction Jack".

### ***Power***

Connect the AC adapter to the EXT PWR jack on the rear of the M6500. If you are using an adapter other than the one

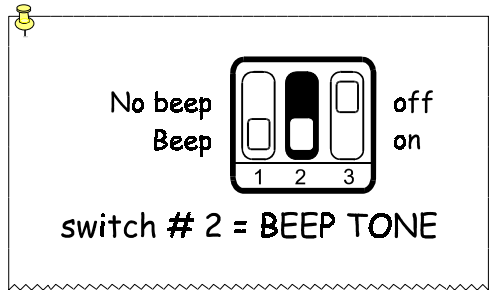
supplied, be sure it is capable of supplying 5 or 6 volts *REGULATED DC* at 50mA. Note the polarity as shown.

Alternate connections may be made using the modular jack on the M6500. See page 6, "Multifunction Jack".



**Beep Tone**

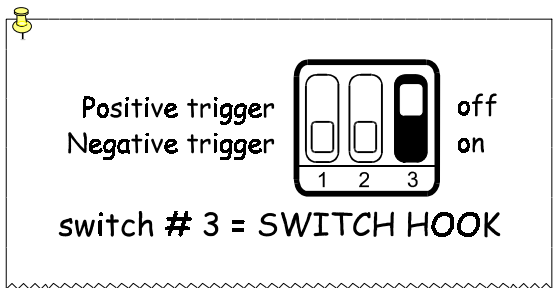
The M6500 produces a beep tone audible to both parties for recording notification. The beep tone is a 200ms 1400Hz tone burst every 12-15 seconds. The beep tone may be turned on or off with switch 2.



**Switch-Hook**

Set option switch 3 for the type of trigger input: off for a positive trigger or on for a negative trigger. Incorrect setting of switch 3 will mute all audio from the M6500. If you are not using the switch-hook trigger lead, be sure this switch is set to off.

Switch-hook is a logical output from the voice terminal which follows the condition of



the handset (on hook or off hook). It may be positive logic (ground on hook, +5v off hook) or negative logic (+5v on

hook, ground off hook). An MA9 trigger lead cable supplied with the M6500 must be soldered to the points in the voice terminal which provide the positive or negative "trigger" and the ground reference.

Contact Lucent Technologies (1-800-225-6907) to obtain a sketch indicating connection points for the specific voice terminal you are using.

Soldering equipment required would be a low wattage, pencil tipped soldering iron, and small diameter multicore solder (.028 or .032 inch).

Tinned wires should be trimmed to approximately 3/64 to 1/16 inch length before "tack" soldering to the P.C. board solder pad location. The solder pad will probably already have a component lead soldered in place. The added connection will be placed on the existing solder and heated momentarily to flow the solder on the wire together with the solder on the component solder pad. Do not allow solder to flow to other solder pads.

Route the loose ends of the cable assembly into the voice terminal base. Solder the black lead to the "switch-hook" logic connection point; this point will be indicated on the sketch for specific voice terminal. Solder the green lead to the "common" of 5V DC power supply in the voice terminal; this lead is the reference input to the M6500 Recorder Interface.

The cable you have connected should be secured to prevent strain on the soldered connections using a small tie-wrap or electrical tape. Re-assemble the set taking particular care to be sure the hook switch plunger and springs are installed correctly if they have been removed or disturbed.

The connector on the end of the switch-hook cable connects in the rear on the M6500. The white dot on the connector goes "up".

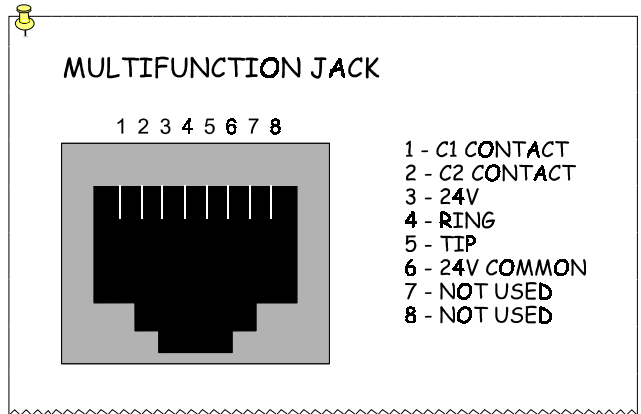
## ***Multifunction Jack***

The multifunction jack on the M6500 is an RJ48C modular jack. It is intended for installations using multiple M6500's with central power and /or central recording. Several features are accessible from this port using a single 8 conductor cable. You may wish to connect to one or all of these features with a DW8 or similar type cord.

- 1 A contact closure for remote switching of recording equipment is provided on pins 1 & 2. This is an optically isolated solid state type of switch. This feature requires a switch-hook trigger connection.

- 2 Recorder audio is on pins 4 & 5, and is identical to the audio output from the phono jack. You may connect your recorder here if it is more convenient than using the phono jack.
- 3 Power may be supplied to the M6500 on pins 3 & 6. This power input requires 24v ac or dc. Do not exceed 24v on this input. Either pin may be used for battery or ground, the polarity is not important. If you supply power through this port, you do not need a 5v AC adapter.
- 4 Pins 7 & 8 are not used.

*Note the pin numbers are for the modular jack on the M6500, and do not necessarily coincide with punch-down block numbering.*



## ***Applications***

The M6500 RIM is primarily designed for use with "K" type handsets, having electret microphones. The Merlin MLX series voice terminals use this type of handset. Other voice terminals equipped with "K" type handsets may work with the M6500 RIM. The M6500 will not work on sets having carbon type microphones.

## Specifications

### GENERAL

**SIZE** .....3.8"L x 2.5"W x 0.8"H

**WEIGHT** .....3.5oz

**OPERATING VOLTAGE** .....5VDC or 24V AC/DC

### POWER CONSUMPTION:

@ 5vdc .....6.5mA

@ 24vdc .....12mA

### AUDIO OUTPUT:

MIC LEVEL .....10dB Loss (+-1dB)

TELEPHONE LEVEL .....0dB Loss (+-1dB)

BEEP TONE .....1400Hz; 200ms burst; 12-15 sec. interval.

**INSERTION LOSS** .....Less than .5dB

### ACCESSORIES INCLUDED

**1ea. MA1 cable:** 3ft. length, 1/8" mini-phone plug to 1/8" mini-phone plug.

**1ea. MA5 power supply:** wall plug style, 115vac input, regulated 5vdc output.

**1ea. MA9 switch hook lead:** 15" length, 2-position pin jack to bare ends.

**1ea. 3.5mm mini-phone plug.**

Specifications subject to change without notice.



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