

ARIES SYSTEM 300 MUSIC SYNTHESIZER
Model AR-347
PATCH BAY ASSEMBLY INSTRUCTIONS

PARTS LIST

<u>QUANTITY</u>	<u>DESCRIPTION</u>
44	Switchcraft 142-A Mini-jacks
1	AR-347 Front Panel
9'	Buss Wire

It is recommended that you do the following before you proceed.

Use adequate lighting

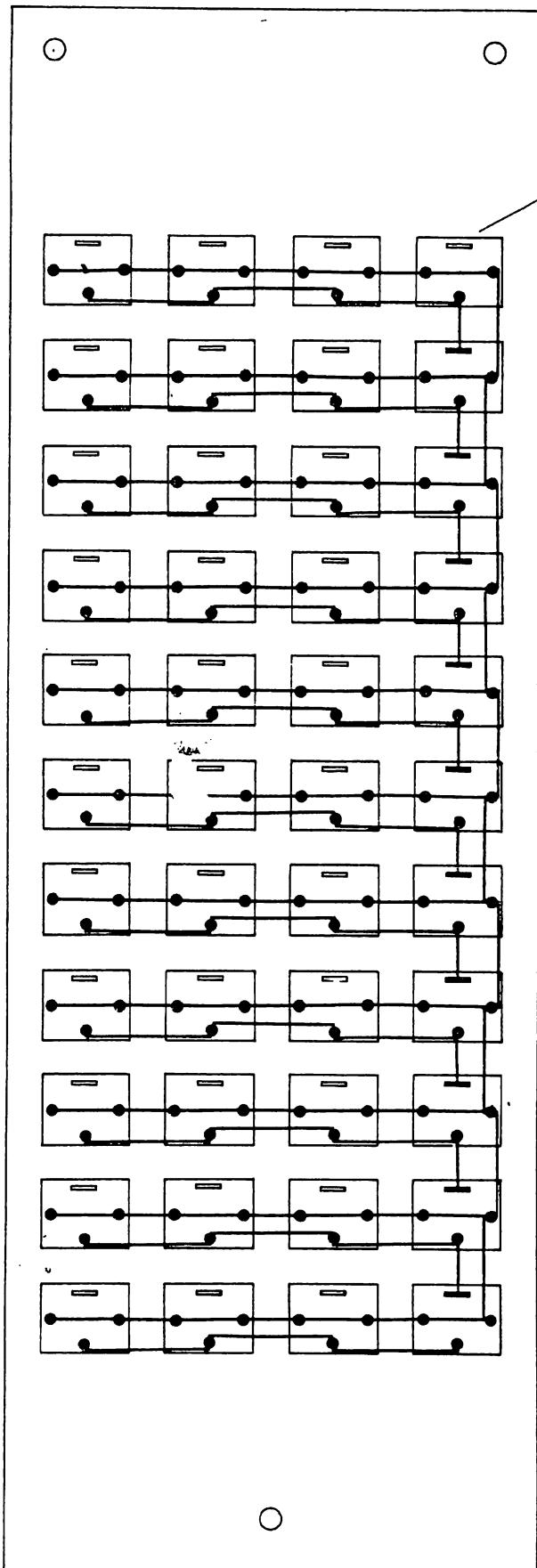
Wash hands before starting. This removes contaminating oils and perspiration and makes assembly more comfortable.

As you proceed, check off each step with a pencil.

- 1.() Mount all 44 jacks orienting them as shown on the wiring diagram.
USING 24 AWG gauge tinned copper buss wire
(see section 1, item 5-C)
- 2.() Connect a wire completely through all shunts and tips of the right vertical column of jacks. Do not solder this wire. (This is an intermediate step and portions of this wire will be later cut away.) Instead, crimp the wire around the tip of the topmost jack and the shunt of the bottom-most jack to hold the wire in place.
- 3.() Connect the tips of each horizontal row of jacks together. Crimp the wire on the tip of each jack in the left vertical column; weave the wire through alternate sides of the tips of the jacks in the middle two columns finally crimping the wire to the tip of the jack in the right vertical column. Refer to the wiring diagram. Before soldering any connections, place this module in a vertical position. You may clamp it in a vise (but be careful not to scratch the front panel) or mount it backwards (i.e. the jacks facing outward) in your Aries cabinet. This is done to prevent any solder or flux flowing into the jack mechanism and destroying the mechanical "normalling" connection.
- 4.() Solder the horizontal wires to the tips of all jacks in each horizontal row. At this time solder the tip of the right-most jack where the horizontal tip wire intersects the vertical wire running through the tips and shunts of the right hand jacks.
- 5.() With diagonal cutters, cut the tip/shunt wire just above every tip in the right vertical column of jacks. Next crimp this wire around every shunt on the jacks in this column. Solder this wire to the shunts. The purpose of this wire is to connect the tip of one jack to the shunt of the jack just below it. Please refer to the wiring diagram if further clarification is needed.
- 6.() Connect the right-side ground of all jacks in the right vertical column together. Weave the wire through the ground terminals in alternate directions as shown in the diagram. Do not yet solder the wire to the jack ground terminals. You need not crimp the wire around each ground terminal. Crimp only the ground terminals at the top and bottom jack.
- 7.() Connect all grounds of each horizontal row of jacks together. Run the wire directly through the center of the ground terminals. Crimp the wire to the left ground terminal of each jack in the left column and to the right ground terminal of each jack in the right column. Solder the grounds on each jack. Where this wire intersects the vertical ground wire, solder both ground wires to the terminal. This completes the assembly of your AR-347 module.

**ARIES
MUSIC
INC.**

**AR-347 PATCH BAY
FRONT PANEL WIRING DIAGRAM**

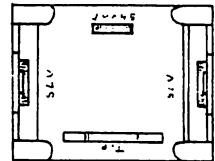
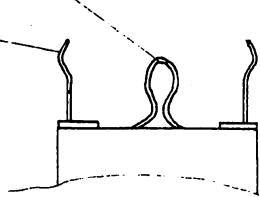


RIGHT VERTICAL COLUMN

SLV GROUND

TIP

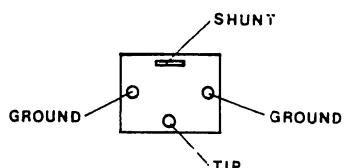
SLV GROUND



SLV GROUND

SHUNT

SLV GROUND



RMS

