



UNIVERSAL SOLID STATE RELAY

KIT CONTENTS

1 - USSR PC Card	1 - Rubber Support Block
1 - #10-32 x 1-1/4" Machine Screw	5 - Wire Nuts, Blue
1 - #10-32 Locking Nut	1 - 56K ½ watt resistor
1 - #10 x 1" Fender Washer	Instructions

CAUTION: DISCONNECT AC POWER BEFORE BEGINNING
Due to the presence of electrical potential, only an experienced technician should perform installation procedures or adjustments involving 110vac "mains" power.

INTRODUCTION

It is assumed that the reader has serviced Leslie cabinets in the past. That being said it is always best to review the entire list of instructions before proceeding.

INSTALLATION

The installer has the option of soldering the new wires to appropriate terminals inside the Leslie amplifier (preferred method), or using the original wires and wire nuts provided. NOTE: There are two leads that must be soldered.

1. Remove the original relay, metal bushing, and rubber grommet.
2. From the outside of the chassis, pass the 10-32 screw and fender washer through the original relay mounting hole.
3. While holding the machine screw in place, place rubber support block over the screw from the inside of the amplifier chassis.
4. Place the USSR PCB over the screw so that it rests on the rubber support block.
5. Install and gently but firmly tighten the 10-32 locking nut.
6. Connect USSR Orange wire to Orange wire or terminal on rear of fuse holder.
7. Connect USSR White wire to White wire or terminal on "Fast" outlet.
8. **Fast/Slow Leslies:** Connect USSR Yellow wire to Yellow wire or terminal on "Accessory Brake" socket. **Fast/Stop Leslies:** The USSR Yellow wire is not used - Insulate it, or remove it entirely.
9. Connect Blue (Green)* wire of USSR Blue and Brown (Black and Green)* twisted pair to Pin 7 (6.3 vAC) of nearest 6550 socket.
10. Connect Brown (Black)* wire of USSR Blue and Brown (Black and Green)* twisted pair to Pin 1 (Ground) of nearest 6550 socket.

* In 2009 the Green/Black twisted pair was changed to Blue/Brown to match stock Leslie wire colors used for the points to which these wires connect.

<p>122, 142, 31H, etc. (DC Relay)</p> <p>11. Connect USSR Red wire to Red wire or Pin 1 of the control tube socket (nearest 12AU7).</p> <p>12. Connect USSR Black wire to Black wire or terminal on the 12K 2 Watt resistor near the 0C3 tube socket.</p>	<p>147, 145, 47, etc. (AC Relay)</p> <p>11. Connect Red and Black wires to pins 2 and 5 of the male 6 pin Leslie connector, polarity is unimportant.</p>
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NOTES: *If this unit is to be used with a Caribbean Motor Controller, a 56K resistor (provided) needs to be installed across the 2 terminals of the Fast Motor Outlet (Not the .1uf cap) to insure reliable operation.*

CHECK OUT - Reassemble and reconnect Cabinet and check for normal operation.