

CONSOLE CONNECTOR KIT 7957 INSTALLATION INSTRUCTIONS
FOR USE WITH: GULBRANSEN Organ Model Rialto II (after Serial No. 125197)*
LESLIE Speaker Model Combination 540/705

KIT CONTENT

Console Connector Assembly	141391	Adapter, Y	137469
Cable Assembly, 11-conductor		Oiler	053025
30-foot (2)	137357	Hardware Package	139877

INSTALLATION

The console connector in this kit can be located inside the organ, attached to the outside of the back panel, or put on the floor at the back of the organ.

If it is to be outside (either mounted or free) the back panel need not be removed. Locate and take off the cover of the access hole near the center on the lower part of this panel. Three sockets are just behind the cover (15-, 12-, and 6-contact). Remove the jumper plug from the 12-contact socket and attach the three corresponding plugs from the console connector.

If the console connector is to be put inside the organ remove the back panel. Disconnect the jumper plug and attach the three plugs from the console connector.

SPEAKER PLACEMENT (figure 1)

A typical arrangement will involve one model 705 used with two model 540's. One of the model 540's may be placed on the model 705 and one located elsewhere. Do not place the model 540's one on top of the other. The second model 540 should be elevated on a pedestal, table, or similar support so that it is at approximately the same height as the one on the model 705. Generally it is desirable to maintain a distance of 4 to 10 feet between the two model 540 cabinets.

Alternately, two model 705's, each with a model 540 ---generally placed on top of it ---may be used.

CONNECTION

This kit provides two 30-foot cables and a Y-adapter. These will complete the connection of one model 705 and two model 540's to the organ. Attach each of the cables to one of the output sockets on the console connector. At the end of one of the cables attach the Y-adapter; connect the short leg of the adapter to the model 705 and the longer leg to the 540. Do not connect both model 540's with the same Y-adapter; they must each go (via the cable) to a different one of the output sockets on the console connector.

When two model 705' s are used, an additional Y-adapter is required. (Obtain part no, 137469 from your LESLIE speaker dealer.) Attach it to the end of the second cable, and made connections in the same manner as for the other set. See figure 1.

CLOSURE

If the back of the organ was removed for an internal installation, place the console connector (with cables attached) in the space available at the lower left (viewed from the back) of the organ interior. Install the back panel, routing the two cables through the notch in the support panel by the connectors and through the slot just to the right of the access hole in the back panel.

PARTS LIST: 139611 CIRCUIT BOARD ASSEMBLY

C1 th C6	Capacitor, tantalum, 10 mfd, 16V	041707
C7	Capacitor, mylar, 0.1 mfd. 200V	022251
C8	Capacitor, mylar, 0.047 mfd. 150V	026468
C9	Capacitor, mylar, 0.1 mfd. 200V	022251
C10	Capacitor, mylar. 0.047 mfd. 150V	026468
C11	Capacitor. mylar. 0.1 mfd. 200V	022251
C12	Capacitor, mylar. 0.047 mfd, 150V	026468
C13	Capacitor, mylar. 0.1 mfd, 200V	022251
C14	Capacitor, mylar, 0.047 mfd, 150V	026468
C15	Capacitor, tantalum. 10 mfd, 16V	041707
C16	Capacitor. mylar, 0.022 mfd. 100V	137751
C17	Capacitor. tantalum, 10 mfd. 16V	041707
C18	Capacitor. mylar, 0.022 mfd, 100V	137751
C19 th C24	Capacitor. tantalum, 22 mfd. 15V	062638
C25	Capacitor. mylar. 0.1 mfd. 200V	022251
C26	Capacitor. electrolytic. 25 mfd, 50V	050310
C27	Capacitor, mylar, 0.33 mfd. 100V	028647
C28	Capacitor, tantalum, 22 mfd, 15V	062638
D1 th D7	Diode. silicon. 30PIV, 500mW	041616
D8, D9	Diode. silicon. 100PIV, 1 amp	021154
IC1 th IC6	Integrated Circuit. operational amplifier 307	112640
Socket,	IC	128010
Q1	Transistor. Darlington, D40C4	139235
Q2	Transistor, 2N4425	033563
Q3	Transistor, Darlington, D40C4	139235
Q4	Transistor. 2N4425	033563
Q5	Transistor, 2N5088	026237
Q6	Transistor. Darlington, D40C4	139235
Q7	Transistor, 2N4425	033563
R1	Resistor, 47K. 1/2W. 10%	028506
R2	Resistor, 10K, 1/2W, 10%	028548
R3,R4	Resistor, wire-wound. 130-ohm. 5W, 10%	023739
R5	Resistor, 3.9K. 1/2W, 10%	028563
R6	Resistor, 4.7K, 1/2W, 10%	028555
R7	Resistor, 47K, 1/2W. 10%	028506
R8,R9	Resistor, wire-wound. 130-ohm. 5W, 10%	023739
R10	Resistor, 3.9K, 1/2W, 10%	028563

R11	Resistor. 4.7K, 1/2W, 10%	028555
R12 th R24	Resistor. 10K, 1/2W, 10%	028548
R25	Resistor. 22K, 1/2W, 10%	028530
R26	Resistor, 2.7K, 1/2W, 10%	042549
R27	Resistor, 10K. 1/2W, 10%	028548
R28	Resistor. 22K, 1/2W, 10%	028530
R29	Resistor. 2.7K. 1/2W, 10%	042549
R30	Resistor, 10K, 1/2W, 10%	028548
R31	Resistor, 22K, 1/2W, 10%	028530
R32	Resistor, 2.7K. 1/2W, 10%	042549
R33	Resistor, 10K, 1/2W 10%	028548
R34	Resistor, 22K, 1/2W, 10%	028530
R35	Resistor. 2.7K 1/2W. 10%	042549
R36	Resistor, 100-ohm. 1/2W, 10%	028399
R37	Resistor, 18K, 1/2W. 10%	018028
R38	Resistor, 100-ohm. 1/2W, 10%	028399
R39	Resistor, 18K, 1/2W. 10%	018028
R40	Resistor, 180K, 1/2W. 10%	059270
R41	Resistor. 18K. 1/2W, 10%	018028
R42	Resistor. 180K. 1/2W, 10%	059270
R43	Resistor. 18K. 1/2W, 10%	018028
R44	Resistor, 180K, 1/2W, 10%	059270
R45	Resistor, 18K, 1/2W. 10%	018028
R46	Resistor, 180K. 1/2W. 10%	059270
R47	Resistor. 18K. 1/2W, 10%	018028
R48	Resistor. 82K, 1/2W, 10%	027102
R49	Resistor, 18K. 1/2W, 10c	018028
R50	Resistor. 82K, 1/2W, 10%	027102
R51	Resistor. 18K, 1/2W, 10%	018028
R52	Resistor. wire-wound, 130 Ohm, 5W, 10%	023739
R53	Resistor. 10K. 1/2W, 10%	028548
R54	Resistor. 33K. 1/2W, 10%	028522
R55	Resistor. carbon film, 560-ohm, 1/2W, 5%	139153
R56	Resistor. 27K. 1/2W, 10%	020834
R57,R58	Resistor. 68K. 1/2W. 10%	059288
R59	Resistor. 22K. 1/2W, 10%	028530
RLY 1 th 4	Relay, 4-pole double-throw	049551
	Socket, relay	049577
RLY 5	Relay, single-pole double-throw (miniature)	137441

ADJUSTMENTS

Prepare each LESLIE speaker for use as described in its accompanying owners manual (connecting each to an AC outlet). If necessary, adjust the volume control of the model 540, according to the instructions in the manual. The volume level of all four channels of the two model 540's should be the same.

Whether one or two model 705 speakers are used, the volume level of the 705 channels should be such as to maintain a balance with the model 540 outputs and the organ.

The treble response controls on both models can easily be adjusted for different levels of treble frequency response, as explained in the owners manuals. Generally it is desirable that both of the model 540 treble response controls be set the same.

The organ-mix-echo functions of the LESLIE speakers are controlled by the organ tabs when this installation has been made.

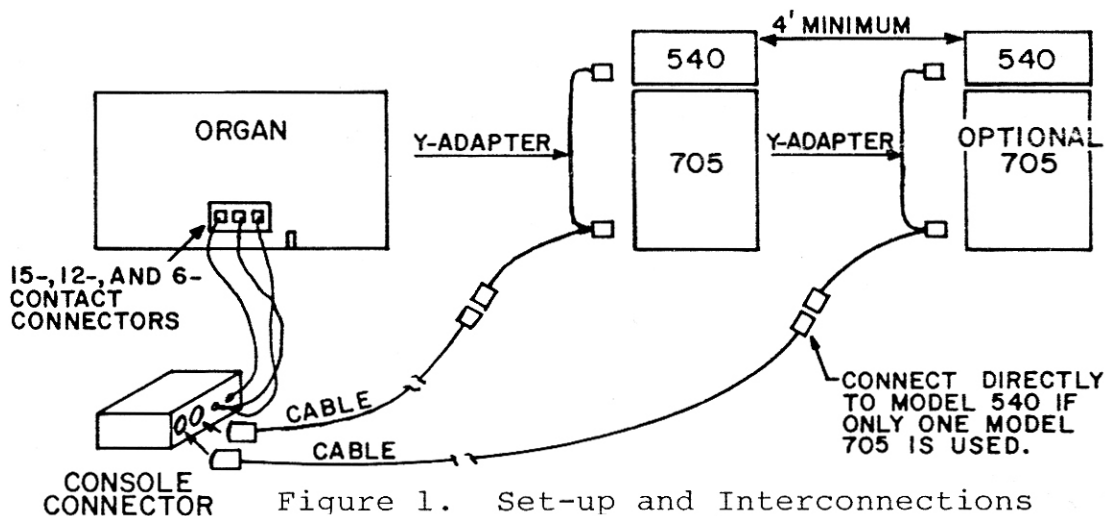
*NOTE: When using Kit 7957 on RIALTO II with serial numbers below 125197 it is necessary to jumper Pins land 4 on the 6-pin connector.

Ordering Parts

Standard hardware, connectors, and electronic components should be purchased locally. None-standard items may be obtained through a LESLIE speaker dealer. Orders should include part numbers as listed.

PARTS LIST: 139824 CONSOLE CONNECTOR ASSEMBLY

Circuit Board Assembly	139611
Cable and Housing Assembly, 12-circuit (P1)	139826
Cable and Housing Assembly, 15-circuit (P2)	139828
Cable and Housing Assembly, 6-circuit (P3)	141393
Socket with Plate, 11-contact	028852
Bushing, strain relief 6P-4	029256
Bushing, strain relief 6P3-4	037986



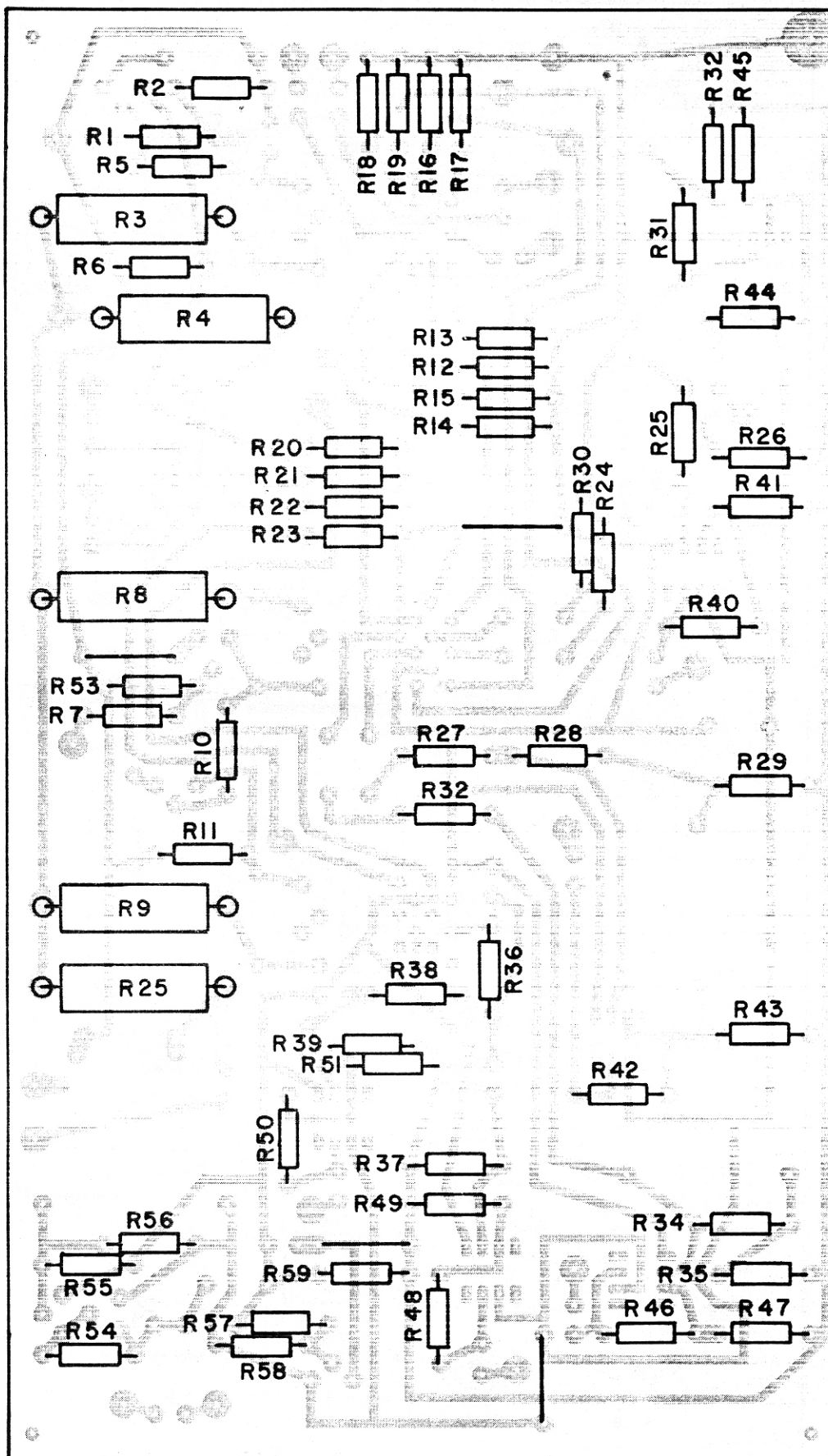


Figure 2. Circuit Board Assembly 139611

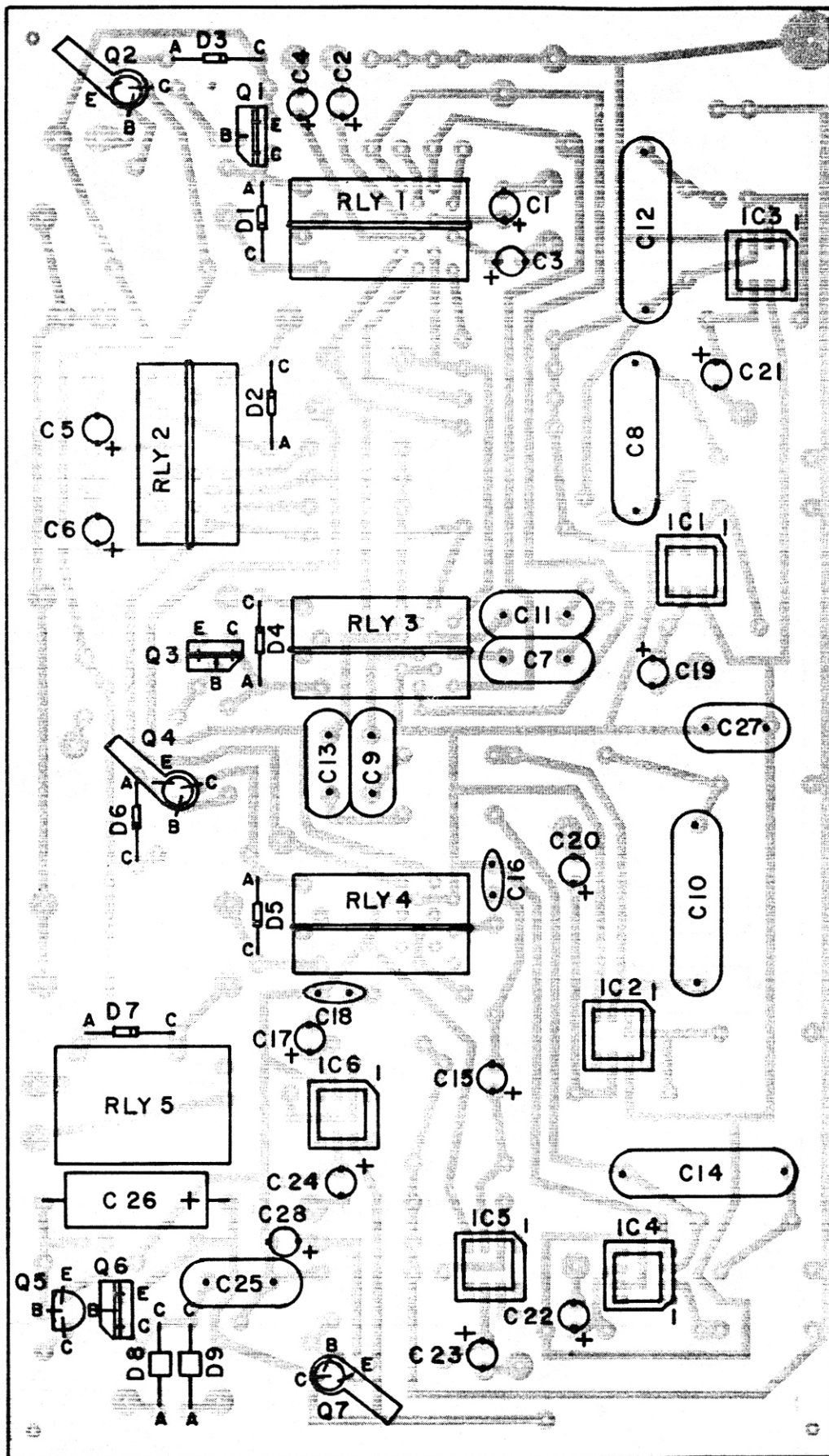


Figure 3. Circuit Board Assembly 139611

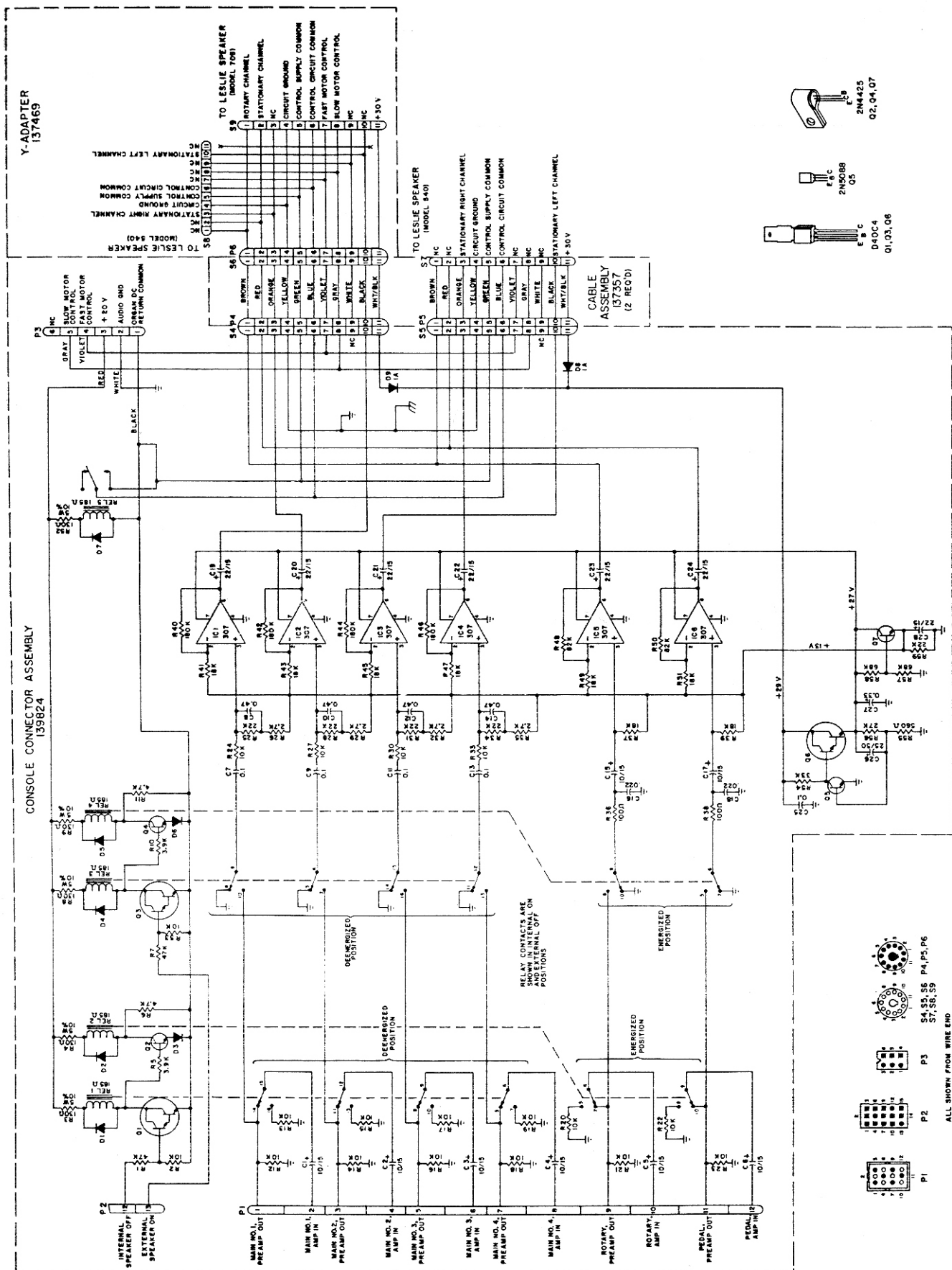


Figure 4. Schematic, Console Connector with Cable Assembly and Y-adapter