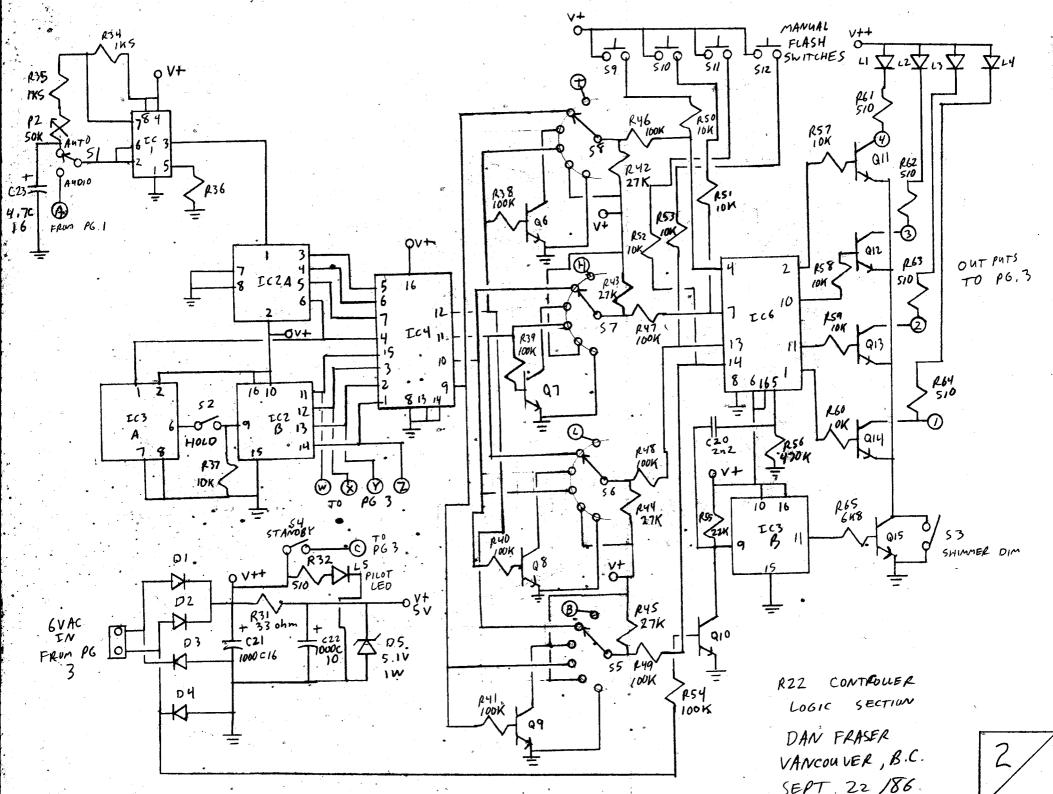
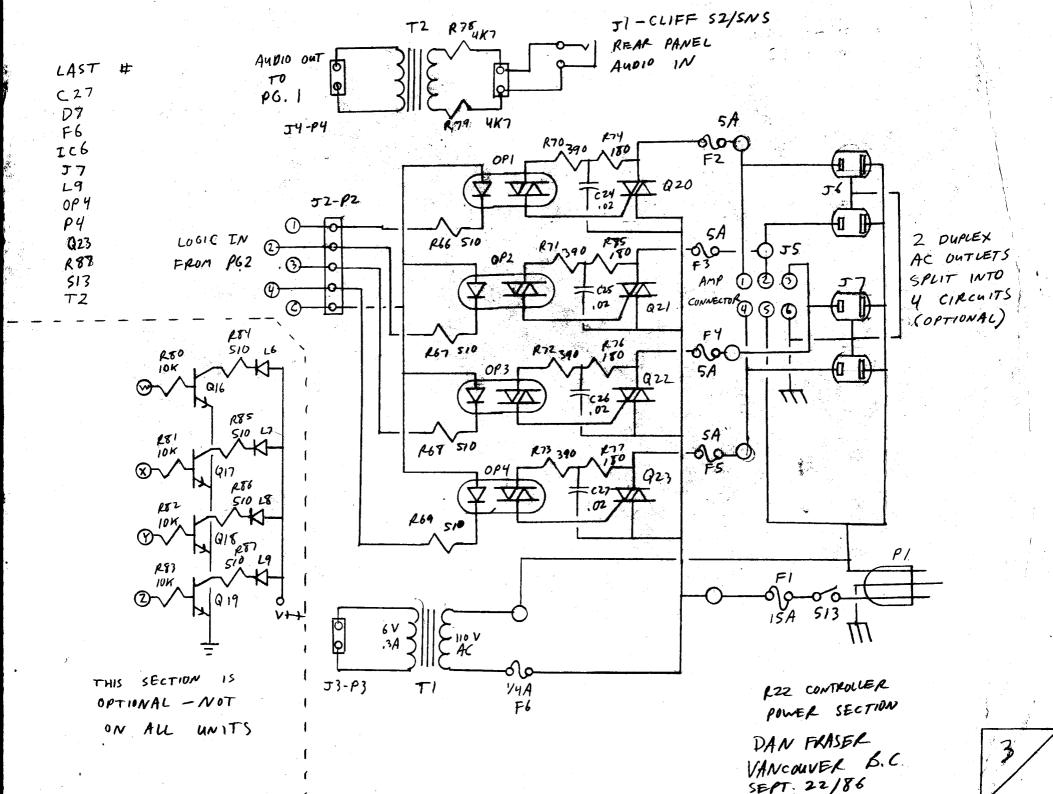
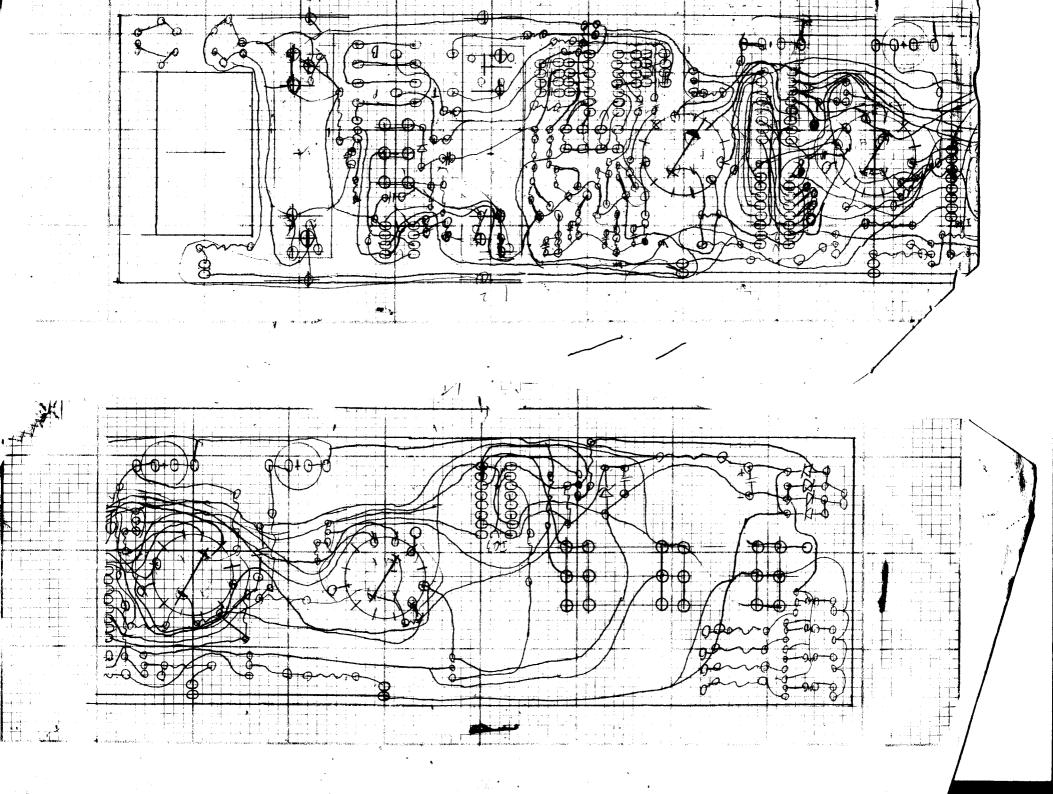


DAN FRASER VANCOUVEL, B.C. SEPT 22/86 1







FRASER ELECTRONICS P.O. BOX 4265. VANCOUVER. B.C. V6B 3Z7 PHONE 604-251-7044

R22 CONTROLLER USER'S GUIDE - JAN. 29/87

The R22 controller is a multi-use controller designed to deliver maximum performance to the mobile disc jockey or smaller night club. Due the ability to select the effect on each output channel seperately, the combinations of available light patterns is almost unlimited. In addition, all switching is done on the zero-crossing of the AC line to prevent the R22 from introducing noise into your audio.

POWER RATING

The standard R22 will operate 1800 Watts of lights, up to 600 on any one channel. The 1800 Watt total maximum applies as that is all that can be pulled from a single AC outlet without tripping the breaker. The R22 is equipped with 8 amp triacs as standard equipment and they are opto isolated from the control circuitry.

FUSES

The power fuse in the standard R22 is a 15 Amp Fast Blow type (AGC15). Do not use a higher amperage or attempt to bypass it. There are four additional 5 Amp Fast Blow fuses (AGC5) for each output channel, mounted on the triac board inside the unit. In addition, there is a 1/4 amp Fast Blow fuse (AGC 1/4) on the triac board for the power transformer supplying power to the circuitry.

SAFETY WARNING

DO NOT attempt to defeat the fuses or use larger amperage ratings!! While we recommend that any internal servicing be done ONLY by a qualified service technician, if you open the controller to inspect or replace any of the internal fuses, DISCONNECT THE AC FOWER CORD FROM THE AC OUTLET FIRST!! Do not operate the controller with the cover off and do not depend on the power switch to remove power from the circuitry. Failure to disconnect the AC cord before opening the unit may be deadly. SAFETY FIRST!! We value you as a customer and want your repeat business.

AUDIO INPUT

The audio input on the rear panel is a 1/4" mono phone jack and is fully insulated from the chassis. It has in input impedance of 50K ohms and will operate with signals in the 1.5 Volt area or it may be connected to the speaker output of amplifiers up to the 200 Watt per channel range. If using amplifiers over 200 watts per channel into 8 ohms, we recommend that you install a 47K 1/2 watt resistor in series with the hot lead of the audio input cable.

CONTROLS

STANDBY SWITCH - This switch allows you to shut off the lights while still being able to view the indicator LEDs. This allows you to set up a new pattern without the audience having to view the set up.

SHIMMER DIM SWITCH - This switch dims the lights to 50% brightness with a shimmering effect. It does this by switching off the power every second complete cycle of the AC line. Because the power is applied to the lights only in complete AC cycles, the shimmer dim function is safe to use on transformer operated lights such as pin spots or rain lights.

HOLD SWITCH - The R22 has 16 chase patterns built into it. It runs each one 16 times then advances to the next. If you find a pattern you like, and wish to hold it, use the hold switch. This the disconnects the pattern selector counter and the one pattern is run continuously. There are 4 red LEDs indicating which pattern is selected. When all 4 LEDs are off, you get a normal 1-2-3-4 straight chase.

CHANNEL SWITCHES — These are the 4 rotary switches, one for each channel. They each have 6 positions. The first position is OFF. The second is STATIC, mhich means that the lights on that channel are on steady. Next is CHASE, where the lights are controlled by the chase generator. INVERT is where the chase output is inverted. This means that instead of 1 channel on ond 3 off on a pattern, you get 1 channel off and 3 on. This is sometimes referred to as a "dark chase". REVERSE is where the chase pattern is reversed in direction. The last position is SOUND TO LIGHT or S/L. This connects the lights to the BASS, LO-MID, HI-MID or TREBLE outputs of the colour organ circuit. By selecting different positions on each switch, an almost limitless combination of patterns is possible.

MANUAL SWITCHES - These four push buttons allow you to play the lights manually. They over-ride the four rotary selector switches, no matter what position is selected, including the OFF position.

RATE SLIDER - This slider sets the chase speed when on AUTO chase.

AUTO/AUDIO SWITCH — This switch selects the trigger source for the chase generator. In the Auto position, the chase speed is set by the slider to the left of the switch. In the Audio position, the triggering is controlled by the music as set by the Audio Sensitivity control.

AUDIO SENSITIVITY CONTROL - This control controls the audio input level. It has two functions. First, it sets the sensitivity of the colour organ circuit. Set to a position where all four channels are flashing when you select the S/L position on the channel switches. The second function is to set the sensitivity of the audio triggered chase.

An easy way to set this is to move the BASS switch to the S/L position. Adjust the audio sensitivity control so that the indicator LED for the BASS channel is lit about

2/3 of the time. Then set the BASS switch back to the chase position you desire. The audio triggered chase should be set properly now. Slight adjustment may be necessary but this setting is usually accurate. Please note that if the control is set too high, you will not get any audio triggerring, the same as if it is set too low. Remember, the BASS channel in the S/L circuit supplies the signal for the audio triggerring.

POWER SWITCH - This switch turns off the AC input power. Please note that when the power is first switched on, the chase pattern that will run is selected at random. This is even if the hold switch is on. The memory of the selected pattern is lost when the power is shut off.

Flease contact us ad the above address or phone number if you have any questions or comments concerning this product. We would like to hear from you.