Pulsar Zero 4000 Operating Instructions

Understanding the Front Panel Controls:

Master Dimmer Controller:

- Sets The overall lighting level: Standby 0%, Shimmer (Dim) 50%, Full 100%

Master Contrast Controller:

- Sets the mood:

  Off:
   The Lights are completely turned off.

  Static:
   Lights are set to on and do not go off at all.

  Flip Flop:
   Lights alternate from one channel to the next - then back again.

  Chase:
   Lights flash from one channel to another.

  Bass:
   Lights flash on and off to the bass beat of the music.

  Man:
   Lights are switched On and Off via the (**Red**) Manual buttons on the bottom of the front panel.

Understanding the Front Panel Controls Continued:

Master Chaser Controller:
- **Mains On indicator (orange LED).**
- **CHASER Controls:**

  SPEED:
  Rotary control knob clockwise = speed (up).
  Rotary control knob anticlockwise = speed(down).

  Music + Auto Program:
  Flip the (red) toggle switch up to engage the ability to synchronize with the music source.

  Program Hold:
  Flip the (red) toggle switch to the center position to engage the Program Hold function.

  Constant + Auto Program: Flip the (red) toggle switch in the downward position to engage the Constant + Auto Program function.

General Description:

Pulsar Zero 4000 is a four channel sound to light unit, each of if lighting channels can be individually switched giving an independence to the channels. There is a master dimmer control switch that gives a half power dim but if there is only a small loads on each channel the lights tend to flicker a little but you wouldn't notice it unless someone pointed this out. The Pulsar zero 4000 utilizes Individual flash buttons for each lighting channels these are manually controlled, very easy to give I individual pulse to the channel. There is a Chase Speed control that allows chasing from a very slow speed to very fast strobe speeds. The sound input in on the back via a ¼ inch jack plug connector, and the power out is a standard A/C electrical socket outlet. Each channel has a Max power 5A 1200 watts, 12A total. Pulsar Zero 4000 is now classed as vintage retro lighting controllers but still very useful and reliable.

Common Applications:

Music + Auto Program

   You can easily set up the Pulsar 4000 to allow the lights in all four zones to pulse with the music being played. Each of the four lighting zones are divided into **Bass**, **Tenor**, **Alto**, and **Treble**.

   Set the **Bass** **rotary control switch** to the **Bass** setting, and ensure the **Music + Auto Program** toggle switch is in the upward position. Turn up the music source to just over half volume and the lights will pulse on an off to the bass beat of the music program.

   Repeat these steps for each of the **Tenor**, **Alto**, and **Treble** **rotary control switches** to have the music pulse according to that lighting control. Each one of the **Bass**, **Tenor Alto**, and **Treble** rotary switches is each its own lighting zone. **Bass** = Zone 1, **Tenor** = Zone 2, **Alto** = Zone 3, and **Treble** = Zone 4 which all feed off of the same music source.

Chase:

   You can easily set up the Pulsar 4000 to allow the lights in all four zones to pulse with the chase after the last pulse of the previous channel and then in reverse.

The **Chaser** feature is a group of 2 switches highlighted with a blue rectangle grouping label as shown above. Set the Treble Zone to **Chase** then select Constant + Auto Program to allow any other Music/Lighting zone to be set to its Music Program (Bass Zone to **Bass** Tenor Zone to **Tenor** etc.) and the Treble Zone will chase any zone set to its music source setting.

Common Applications Continued:

Chase Continued:

You can easily set up the Pulsar 4000 to allow the lights in all four zones to pulse with the chase after the last pulse of the previous channel and then in reverse. **Flip Flop** is an additional feature of the chase function and it will allow any Music/Lighting zone set to **Flip - Flop** to alternate randomly back and forth between it and any other Music / Lighting Zone set to its Music Source setting (**Treble**/Zone 4 to **Treble**).
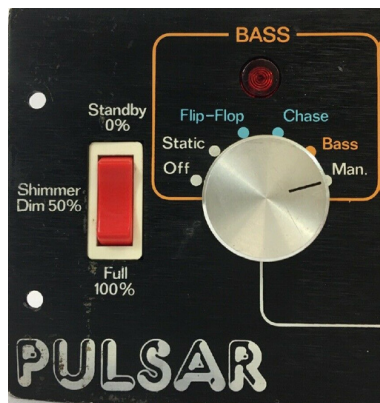

Image 1   **Image 2**

Setting 2 or more Music / Lighting Zones to their Music Source setting and it will increase the **Flip - Flop** action. Next you can use the **SPEED** control to vary the **Flip - Flop** action rate.

Note: **When the (red) toggle switch is set to Music + Auto Program the Flip - Flop feature is no longer engaged for any of the Music / Lighting Zones.**

Program Hold:

When the **(red)** toggle switch is set to **Program Hold** any random features are disengaged, but the **Speed** **rotary switch** still functions as expected - raising and lowering the **Speed** of the lights "strobe effect". **Program Hold** is there for consistency in the Lighting Show you set up.

Man. (Manual):

Manual setting overrides any other program features. You will need to use the (**red**) touch / push switches underneath the Music /Lighting Zones. Each zone has it's own designated (**red**) touch /push switch. ***See the image at the top of page 1.***