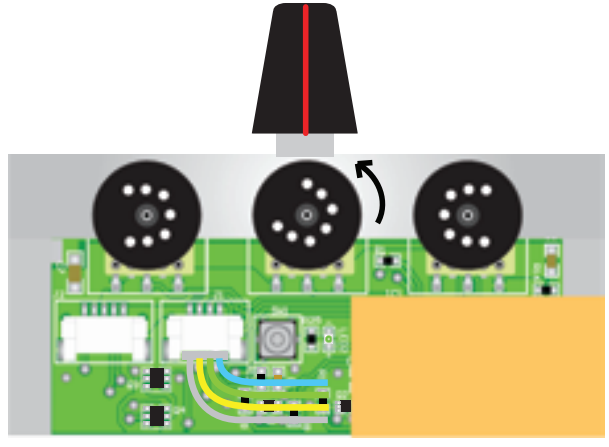
IMPORTANT FIX FOR RANE 70 AND RANE 72 BLEEDING - BACKGROUND

The Rane Seventy and Seventy-two have an issue where the output doesn't shut off even though the Rane adapter board sends clear off signals. Having the Rane adapter board continually send an off signal did not fix this problem. So engineer and Innofader owner Elliot Marx fixed this issue by having the Innofader send an oscillating signal from 0 to 1 MIDI on one end of the crossfader and from 127 to 126 MIDI on the other end of the crossfader. The oscillation can be heard as a transforming effect that happens at the left and right cut points.

To maximize the overall performance of your mixer with good cutting and mixing action, please first sharpen the cut, then do the bleed fix. It is necessary to do both steps to fix the bleeding and obtain a sharp cut with minimal dead space.

1) Simple option for sharpening the cut (Recommended)

If you can accept a sligtly sharper curve, your best option is to sharpen the curve slightly. Placing the CURVE dial in the 10:00 poisition will allow you to do some mixing with the crossfader while also allowing for sharp cuts and minimizing dead space. You can also adjust CUT dials later to further tighten the dead space.



IMPORTANT FIX FOR RANE 70 AND RANE 72 BLEEDING - BACKGROUND (cont)

2) Complex but more powerful option: PRECISION MODE SETTING

If you are patient and want the maximum performance for both scratching and mixing, then pick this option. It may require several iterations to work properly, but when done correctly along with the INNOFADER RANE 1-70-72 BLEED FIX MODE, it will set the Innofader Rane 1-70-72 for both sharp cuts and a smooth mixing curve. It does this by bypassing the curve dial operation only at the cut point to give you a sharp cut.

Previously we recommended this for all customers but found that this process is difficult. It may actually worsen the bleeding if not done properly. Please make sure that you have the time and patience to reset the fader and repeat and retest all of the following steps. And the next time you do the PRECISION MODE setting, back off further on the cut dials to prevent bleeding.

RANE MIXER CUT POINT SETTINGS

BEFORE you do the precision mode setting, make sure you set the cut point to 0 on both the left and right side of the crossfader.

When you are done with all of these adjustments, set the cut point to 2 on both the left and right side of the crossfader.

Please go to support.rane.com for detailed instruction on how to adjust the cut.

PRECISION MODE

This gets rid of the excessive lag on both sides regardless of the CURVE setting.
SET CUT ON RANE MIXER TO 0 BEFORE DOING THIS SETTING

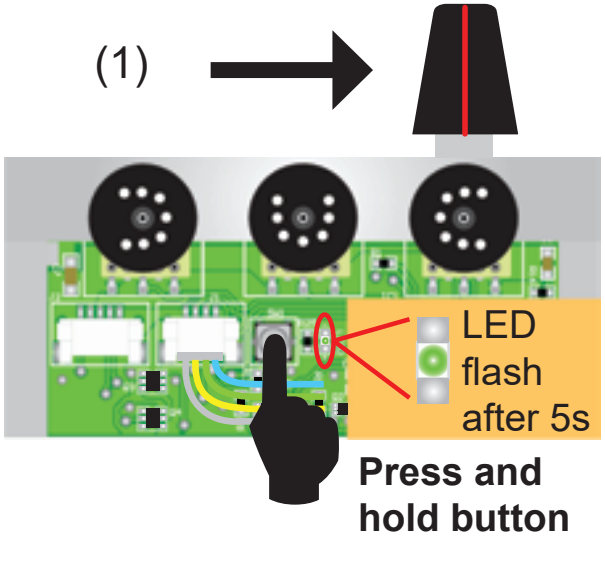
1) Slide knob all the way right. Press calibration button > 5 seconds until the LED starts to flash.

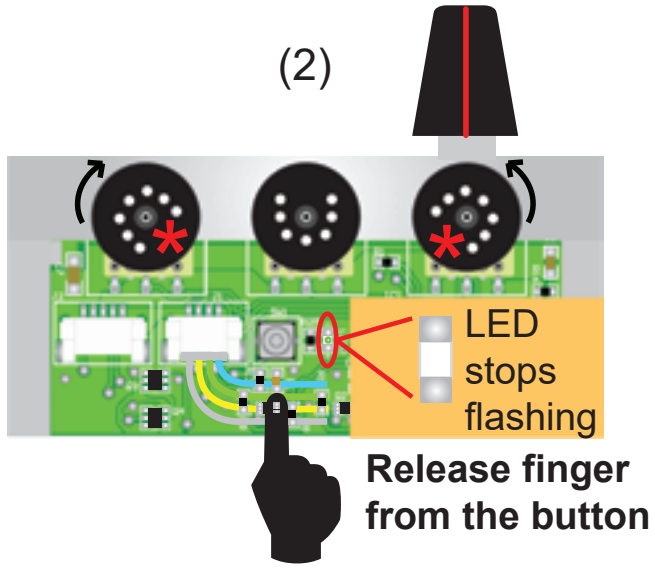
2) Release the calibration button. Turn RIGHT CUT and LEFT CUT dials all the way towards the center. The LED will be off.

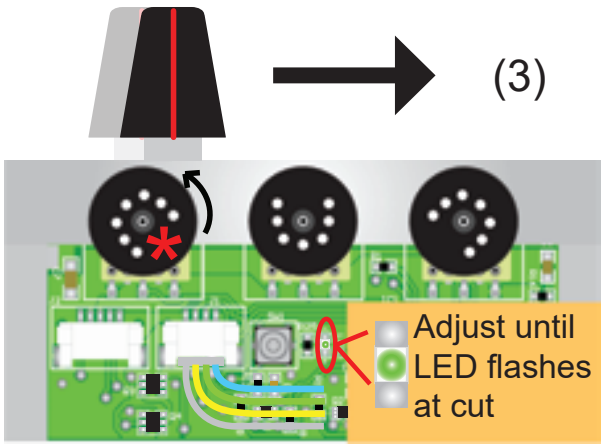
*****Right and left are as viewed from the front of the Innofader Rane 1-70-72**

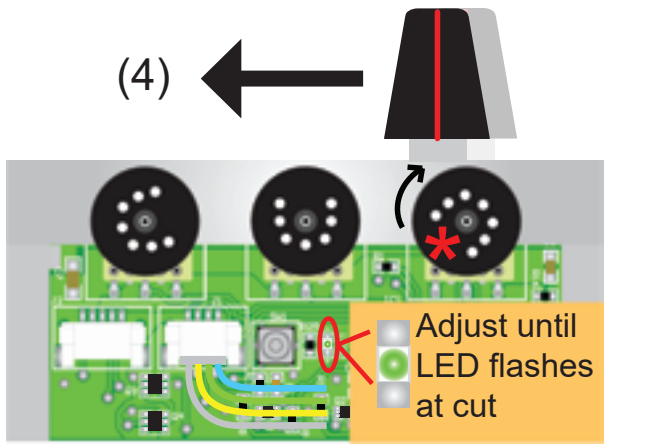
3) Adjust RIGHT CUT dial slightly inward while confirming sound and LED cuts happen together. Do slow cutting movements, and turn dial back if sound cannot cut out.

4) Adjust RIGHT CUT dial slightly inward while confirming sound and LED cuts happen together. Do slow cutting movements, and turn dial back if sound cannot cut out.









PRECISION MODE (continued)

This gets rid of the excessive lag on both sides regardless of the CURVE setting. When done properly, cuts are sharp, the LED flashs on the cut, and you can set the CURVE dial near the middle for quality audio and video mixing.

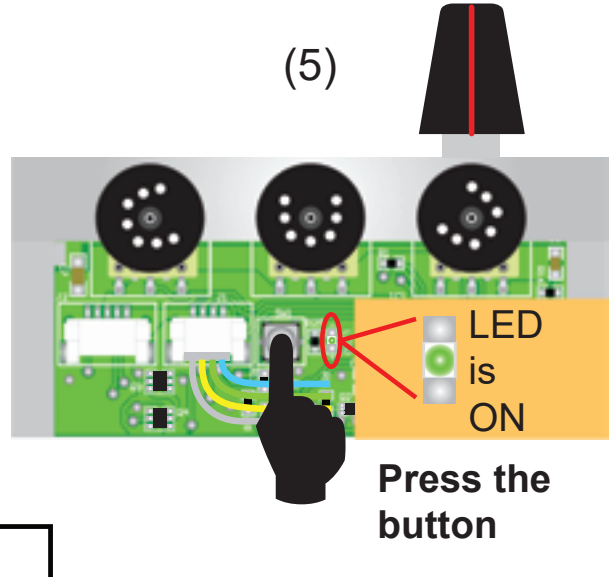
5) Press the calibration button for about 1/2 second. The LED will be on at this point.

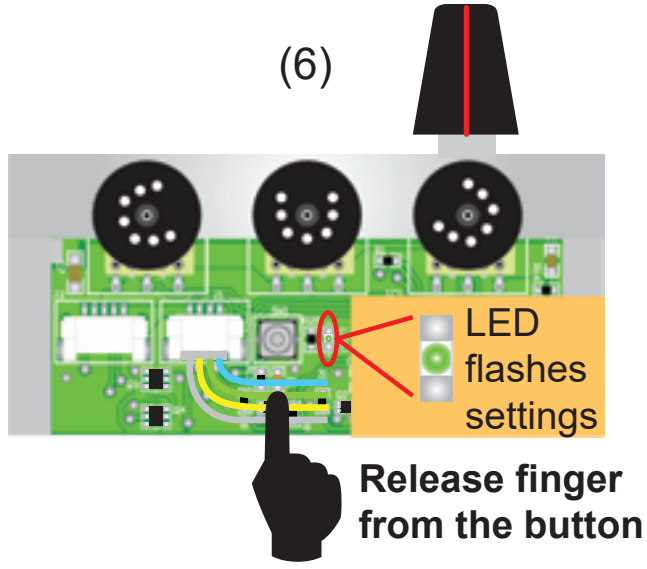
6) Release the calibration button. The LED will then flash a pattern to indicate all of the settings. See details next page.

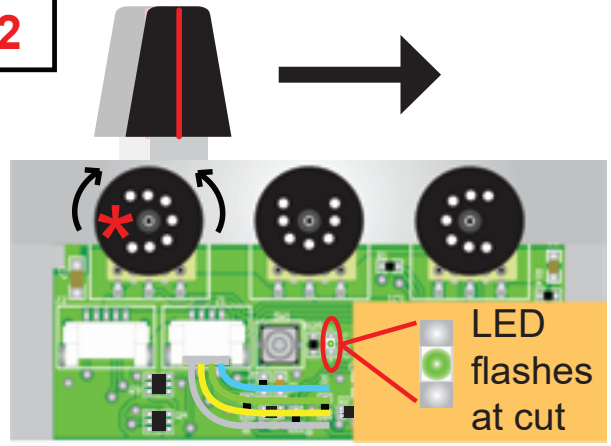
*****Right and left are as viewed from the front of the Innofader Rane 1-70-72**

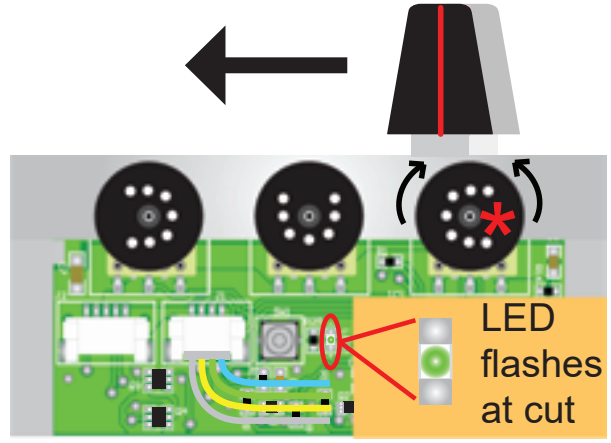
7) Adjust RIGHT CUT dial to where you get the desired cut point.

8) Adjust LEFT CUT dial to where you get the desired cut point.



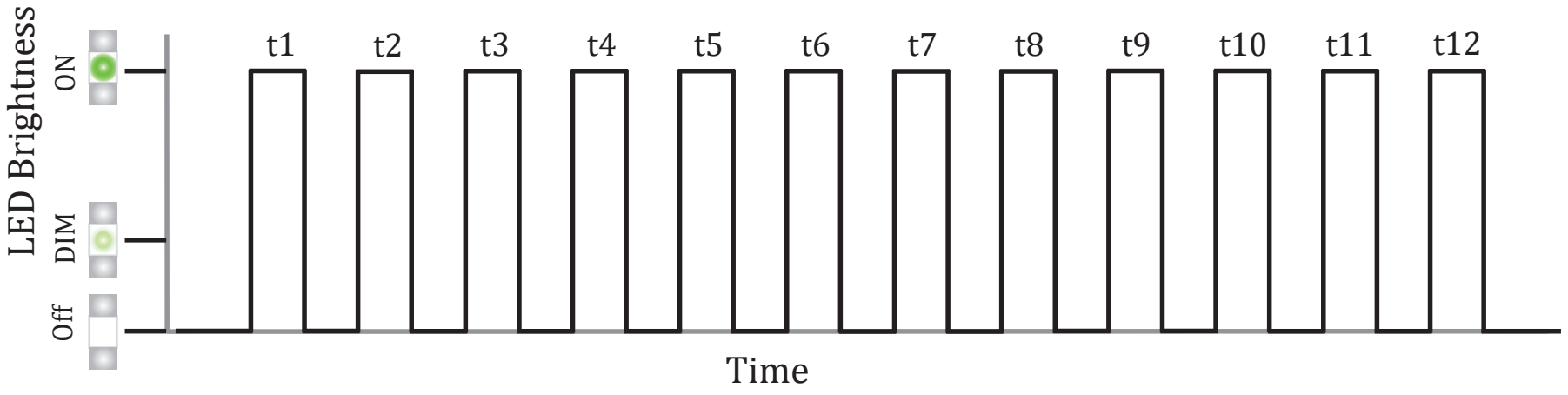




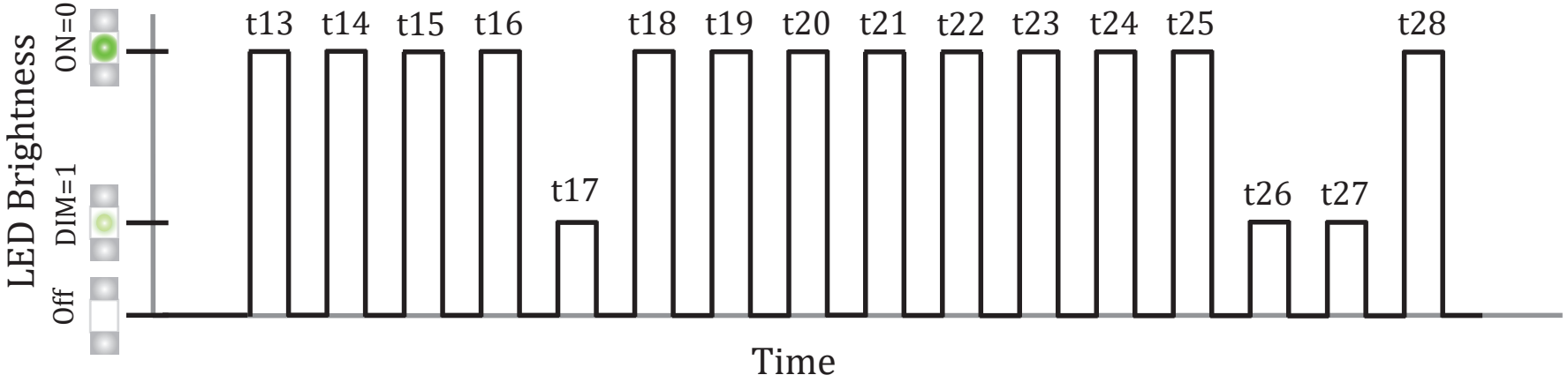


PRECISION MODE (continued)

The 12 LED flash pattern is unchanged by the Precision Mode Adjustment



Now following the original 12 LED flashes is another 16 LED flashes. t13 to t20 is for the LEFT CUT and t21 to t28 is for the RIGHT CUT representing an 8 digit binary number 00000000 (0) to 11111111 (255). Bright = 0, dim = 1. This adjustment should be small since the Rane cut points are very close to the min and max. So the following shows a LEFT CUT adjustment of 8 (00001000 in binary) and a RIGHT cut adjustment of 6 (00000110 in binary):



INNOFADER RANE 1-70-72 BLEED FIX MODE

Do for Rane 1/70/72 if output sometimes doesn't turn off even when set for large gap

1) Knob starts all the way right. Press and hold the button.

2) Slide the knob to the left. Keep holding on to the button.

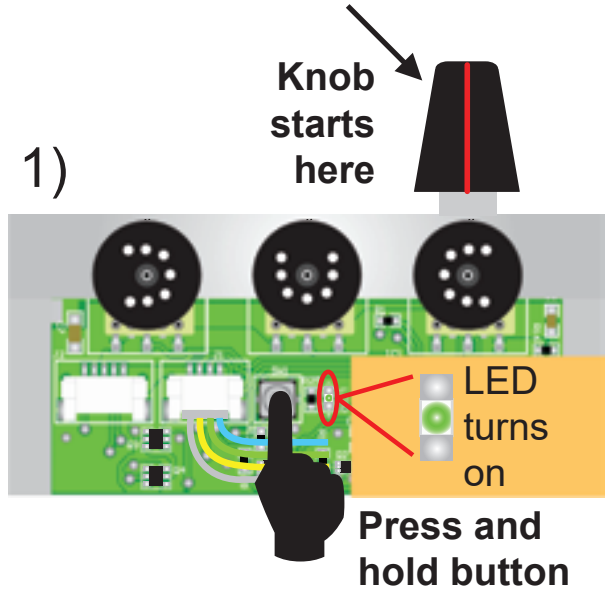
3) Slide the knob all the way back to the right. Keep holding down the button.

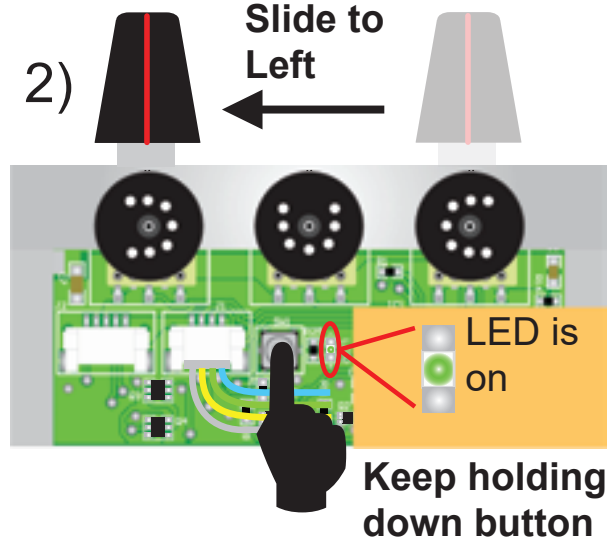
4) Release the button.

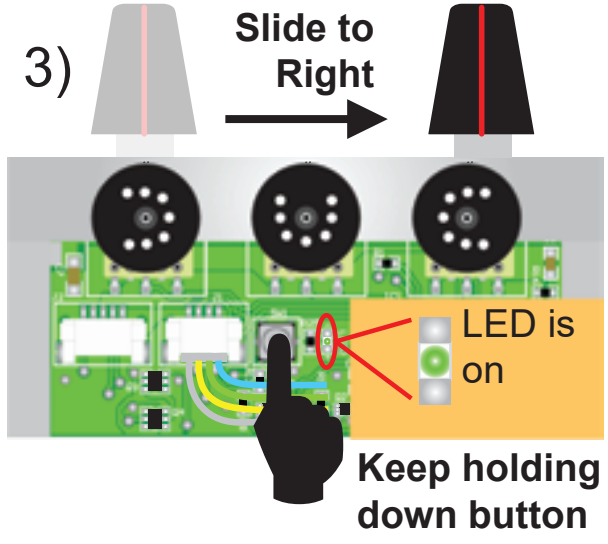
When you are done, the PNP3 will reset itself and go through a sequence of flashing LEDs.

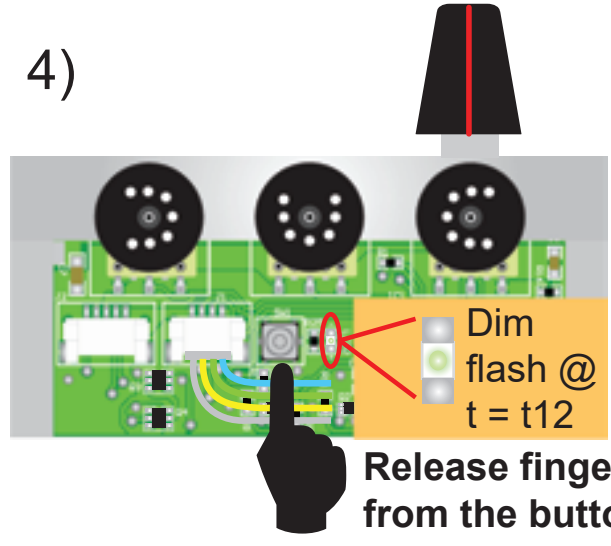
If this step was done correctly, the last of 12 LED flashes will be dimmer than the other flashes. See details next page.

Please repeat this step if the last of 12 LED flashes is still bright!



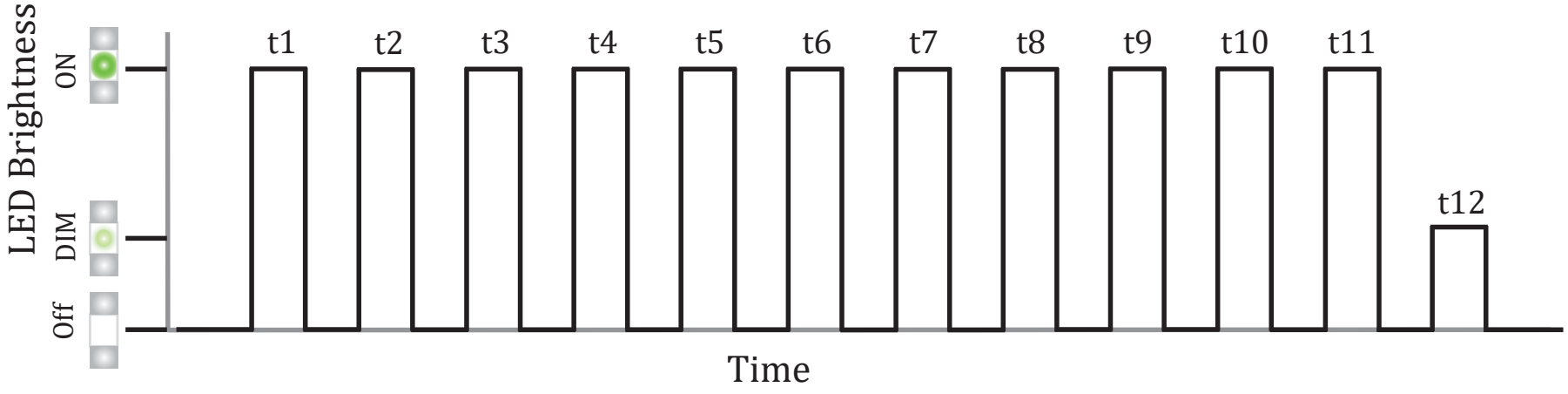






CORRECT LED PATTERN AFTER BLEED FIX

The 12th LED should be dim to indicate that you did the Bleed Fix setting



IF YOU DID THE PRECISION MODE SETTING:

Following the original 12 LED flashes is another 16 LED flashes. t13 to t20 is for the LEFT CUT and t21 to t28 is for the RIGHT CUT representing an 8 digit binary number 00000000 (0) to 11111111 (255). Bright = 0, dim = 1. This adjustment should be small since the Rane cut points are very close to the min and max. So the following shows a LEFT CUT adjustment of 8 (00001000 in binary) and a RIGHT cut adjustment of 6 (00000110 in binary):