



Neo Tokyo Build Doc

NEO TOKYO is based in a concept of mine which I've dubbed "LAZER PHASER", it's basically taking more "standard" phaser duty and push it to the max using feedback amplified by several MEGAohms of resistance in the feedback path. Regular phaser can do this (in principle) using intricate self patching with additional boosting but Neo Tokyo gives you a fixed solution to this, which is integral to my own studio and production. It can get wild and out of control if you like that sort of thing (I do).

It's also inspired by the manga Akira which was created by Katsuhiro Otomo and ran between 1981 and 1990. The first press of panels reflects this being a limited and unique run with AKIRA inspired artwork in GOLD on red (which is the first and last time I'll ever do this).

Operation of this device is straight forward. Input 1 is normaled to input 2 so you can connect a mono signal into it and have stereo out (or why not a stereo signal into both channels). Same thing goes for the CV inputs, there is a reverse switch in between channels which makes the CV for channel two invert from the CV in channel 1. This creates alternating action between channels (and also weird phases, cancellations and mayhem depending on the feedback settings).

Build guide:

Building this is straight forward. I usually place the power header and solder it in first. Then I place all the jacks and solder in the ground pin (the one sticking out from the jack) from above. Place the pots and switch, the dual led (short leg through the square pad) put the panel on and make sure everything looks good from the front. Solder everything in. Double check for any shorts before plugging it in. You are then done. Please enjoy NEO TOKYO..

BOM

Part	Designator	QTY	INFO	Product link
Thonkiconns	J1-J6	6		thonk, tayda, aliexpress: https://www.thonk.co.uk/shop/thonkiconn/
Alpha 9mm potentiometer T18 100K Lin Dual	RV1	1	Frequency pot	https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/
Alpha 9mm potentiometer T18 100K Lin Single	RV2, RV4	2	CV pots	https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/
Alpha 9mm potentiometer T18 1M Lin Single	RV3, RV5	2	Feedback pots	https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/
DUAL LED Red/white 3mm	D1	1		https://www.ebay.com/itm/190894964341?mkcid=16&mkevt=1&mkrid=711-127632-2357-0&ssspo=INFnD8QMSMq&sssrc=2047675&ssuid=CwDmw60BR6-&var=490181180284&widget_ver=artemis&media=COPY
Eurack power pins 2x5	SV1	1		https://www.taydaelectronics.com/2x40-pin-2-54-mm-double-row-pin-header-strip.html
Micro knobs T18	For RV2-RV5	4	Must be Black	https://www.thonk.co.uk/shop/micro-knobs/
Tall Synthpointer - Small - T18 Shaft	RV1	1		https://www.thonk.co.uk/shop/tall-satin-synthpointer-knobs/
SPDT ON-ON	SW 1	1		https://www.taydaelectronics.com/mini-toggle-switch-spdt-on-on.html

