





ABOUR

What began as an exploration of Ritchie Blackmore's tone evolved into a multidimensional gain machine capable of anything between unruly sputtery fuzz and classic rock chime. This is not meant to make you sound like Blackmore, it is meant to inspire you from using the tools that he did, that would otherwise be inaccessible in pedal form. The heart and soul of the Dreamcoat is a near-exact recreation of the preamp circuit from the Aiwa TP-1011 reel-to-reel deck that Blackmore used on many of his recordings. All of the functionality of that unit is present, from sparkling cleans to powerful crunch and glassy leads, but the "Sat" control gives you an extra layer of grunt, allowing the Dreamcoat to range between near-dry tonal indifference to complete "melting-amp" Neil Young-esque tweed sounds. Blackmore's sound wasn't just a tape deck, though. His guitar tech, Dawk Stillwell, installed a passive inductor-based frequency "booster" into Ritchie's Strat that cut both sides of the spectrum around the resonant frequency of his guitar, giving the appearance of frequency boost. To that end, we've added a frequency booster circuit that doesn't cut anything, giving you a richer tone with a little oomph where it counts. To top it all off, we've included a clean blend circuit that begins after the frequency boost and ends after the tape preamp, so you can EQ the sum of your clean tone and dirt, all while preserving your pick attack and presence. The whole shebang runs at 20V, just a hair higher than the original Aiwa, expanding its capabilities and delivering tons of headroom.

CONTROLS



FREQ: This controls the amount of boost at a specified frequency band, from 2.4KHz to 5KHz, which you set with the internal trimmer. When the knob is fully counterclockwise, it's out of the circuit. When you turn it up all the way, you'll get a full 10dB boost at the selected frequency. Warning: a little goes a long way with this control, as ~4KHz is where pink noise and other unpleasantries live.

BLEND: This control blends the signal coming out of the Freq control with the Aiwa deck circuit. Nudge it south-of-max to gain back some of your pick attack, and turn it all the way down to hear just the EQ'd dry signal. When all the way down, make sure you turn your master up to compensate and vice-versa. When your Sat and Mic Vol are cranked and your Blend is just above 0, the resulting dynamic between your dry signal and those more extreme splatty Dreamcoat settings create a truly unique tone.

SAT: Controls the amount of feedback present in the first stage of the Aiwa unit. You can think of it as a "gain range" control. This control was not included on the original unit and was set to a fixed value. The default setting on the original is a hair past noon, everything else is extra. If you find that you are getting too much sputter, turn this control down.

MIC VOL: This is the original "distortion" control of the Aiwa deck and controls the total "distortion" of the circuit.

MASTER: You know what this does. You will never want for volume with the Dreamcoat, it can get punishingly loud. After all, the Aiwa was meant to drive speakers! As you adjust the Blend control, you may need to turn this up.

UNDERTIECOOD

Frequency trimmer: Blackmore had his passive "boost" tailored to the resonant frequency of his Strat, accentuating pinch harmonics. While you may not play the man's actual guitar (seriously, props if you do), you may want to spend some time dialing this in. This is definitely a "set-it/forget-it" type of control, as you dial it to suit your guitar best. Of course, you can experiment with different frequencies and let the FREQ knob do the talking.

COLEDEBLIB



The TP-1011 was originally designed to accept a microphone input. Microphones operate at as low as -60dBu, and guitars 20dBu higher, so a guitar signal naturally overloaded the front end, creating its signature distortion. Unlike the original Aiwa unit that runs at 18V, the circuit didn't really do the amp-melting thing until I increased the operating voltage to 20V, and so that's where we stand. The 20V operating voltage is supplied via a shunt-regulated charge pump, so plugging a standard 9V power supply into it does the trick.

When you adjust the Blend control, keep in mind that the "clean" sound is actually whatever you feed into the Dreamcoat, so running another pedal up front will allow you to blend the signals in parallel. This is a boon for you gain stackers out there, or you can get creative with it---try plugging in a ADT pedal or a subtle chorus up front and backing off the Blend control to let your cleans really jump out.

FOWGIAR











TECHNICALINFORMATION

POWER SUPPLY

The Dreamcoat requires a 9V power supply center-negative and draws 44mA. Any more current than that is A-OK, but you can't exceed 9V without letting the smoke out. Bad things will happen, including but not limited to shouting expletives and more importantly, voiding your warranty.

MEASUREMENTS

Current draw: 44mAInput impedance: $>1M\Omega$ Output impedance: $<5K\Omega$ Dimensions: $4.33'' \times 2.36'' \times 1.93''$ Weight: 0.4 lbs

CLASSIC ROCK



The DREAMCOAT is very sensitive to how hot your pickups are, what pickup you're on, and how clean or dirty you set your amp. If your guitar has a super high output, then it'll be easier to reach that sputtery, blown out sound and so you'll need less of the SAT control. Your guitar's volume knob can be a great way to quickly move between DREAMCOAT tones. Full guitar volume could be that blown out sound and low guitar volume can give you a pleasant boost.