TC XII PROGRAMMABLE PHASER

IN TWO VERSIONS: NORMAL RANGE TC XII AND ONE OCTAVE LOWER BASS RANGE TC XII B/K

TC XII programmable Phaser gives you more possibilities of controlling, programming and choice of phaser-sounds than any other compact portable phase-shifter on the market.
Its low noise, high headroom and low distortion derive from consistent construction techniques with low power components of high quality.
ANY PROFESSIONAL MUSICIAN, WHO REQUIRE THE ULTIMATE IN VERSATILITY AND QUALITY WILL FIND THEIR DEMANDS MORE THAN MET IN TC XII.

TC XII INCORPORATES THE FOLLOWING FEATURES:

FILTER-switch: 4, 8 or 12 phaselag filters. Allowing far greater variety in choosing phase-shifting effect character depth and intensity, all phase-shifters up to now have had only a single number of filters (up to 10).
FUNCTION is a separate sweep "depth" control, it has "normal" soft phasing in central position and different increased deep distinct phasersounds in left and right positions peak and notch.
WIDTH controls the broadness of the phasing sweep. Clockwise rotation increases sweepwidth. Thereby controlling how far the sound-response (created by the settings of filters, function and the use of programjacks) sweeps up and down the sound spectrum. At "0" there is no sweep at all (no phasing). Here TC XII can be used as an exclusive filter (similar to equalizers) capable of altering the frequency response of your instrument in multiple manners controlled by the settings of filters, function and the use of programjacks.
SPEED determines the rate at, which the phasing sweep occurs. It ranges from 0.1 to 10 sweeps per sec. (Hz) speed rate influence is gradually increased when width is turned clockwise.
INPUT socket has a built in switch, so that battery is used only when instrument is connected. The high input impedance assures the input signal maintains its full harmonic content.
OUTPUT: If more than one pedal e.g. a distortion unit is used, use TC XII as the last pedal in the line TC XII has built in "buffer" when switched out, so that variations of the sound level is avoided. Notwithstanding any in- and output impedance of connected amplifier, effect or instrument, same "buffer" allows extreme long cords after TC XII, both when switched in and out with no degradation of the signal.
BYPASS contact switches TC XII in/out, as the switching in/out is done completely electronically, there is no mechanical switching noise.
PROGRAM: TC XII can be programmed to work in different ranges of the sound spectrum by one of the enclosed programjacks. The red programjack will make TC XII phase with a deeper sound character, the blue with a higher. In this way the TC XII phaser can be tuned to the very range required for your special application
FOOT-PEDAL control. By plugging in a volume-pedal (DC-coupled, potentiometer 50-100 kOhm) to program, TC XII can be fully controlled by foot. Special cable as TC C32 is used (see diagram), influence from internal sweep-rate oscillator speed is still controlled by width, thus making it possible to phase, controlled by foot-pedal mixed with the internal speed oscillator.
REMOTE BYPASS control is possible through connection to the minijack-socket placed below the bypass switch. Hereby TC XII can be placed in a practical position for easy adjustments, and switch in/out is now remote controlled by footswitch. The same switch can control more TC XII's and other TC effects. (TC remote switch).
SYNCHRONIZED PHASING of two TC XII phasers is possible when program on one is connected to program on the other (use cable TC C35), width on one phase at "0" and width on the other e.g. at "6". The TC XII 's now makes their phasing-sweeps completely synchronously, even with individual settings of filters and functions. Synchronized phasing is well suited to stereo p.a. systems allowing each channel to be processed with the same sweep-rate without the channels being mixed to a mono signal.
In the studio the tracks do not have to be mixed together to get phased, but can be phased synchronously on separate tracks with individual colors and keep their possibilities of later mixing adjustments.
EX.POWER: TC XII can is operated without the use of battery, by using an external power supply.
(See change of battery).
INDICATOR shows a red light when the phase effect is on. When operating on battery the light fades out in a short time after switch in.
USED UP BATTERY is indicated when switching in, by pulsation of the indicator light, synchronized to speed oscillator. It starts several hours before the battery is completely used up, making annoying interruptions avoidable. When the light does not appear the battery should be changed.
CHANGE OF BATTERY. The battery can be changed by removing the four screws in the bottom of TC XII, the battery should be removed before storing TC XII for longer periods or when operating on Ex.Power only, to avoid eventual damage from battery-leakage.
For longest life of battery: remove jack from input after use.

TC XII B/K, the bass/keyboard version has all filters moved one octave down, making it especially well suited for bass/keyboard.

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ULTIMATE SOUND MACHINES

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TECHNICAL SPECIFICATIONS:

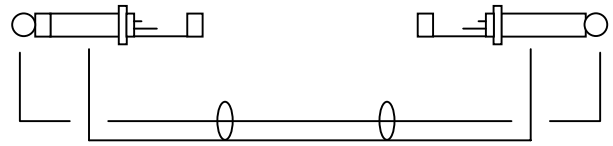
	SWITCHED IN	SWITCHED OUT
INPUT IMPEDANCE	1MOhm	1MOhm
OUTPUT IMPEDANCE	250 Ohm	250 Ohm
BANDWIDTH	20-20000 Hz	20-20000 Hz
POWER CONSUMPTION	20mW	20mW
EX. POWER SUPPLY	8-14V	8-14V
BATTERY	9V	9V
MAXIMUM INPUT LEVEL	+4dBV	+10dBV
DYNAMIC RANGE	100dB	120dB
NUMBER OF FILTERS	4, 8 or 12	

CABLE DIAGRAMS:

PEDAL CABLE TC C32:

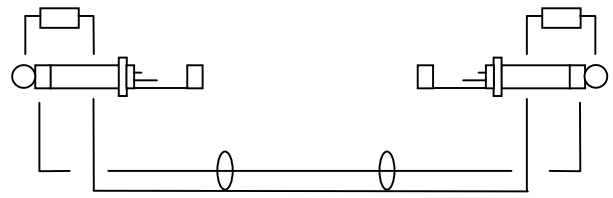
PROGRAM JACK OUTPUT VOLUMEPEDAL (INPUT IS NOT USED)

¼" TRS (Stereo) Jack plug Mono jack plug



SYNCHRON CABLE TC C33:

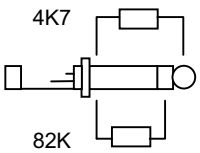
¼" TRS (Stereo) Jack plug ¼" TRS (Stereo) Jack plug



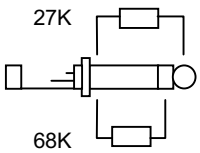
RESISTORS: 15 KOHM
OR (50 KOHM = RED PROGRAMJACK, 5 KOHM = BLUE PROGRAMJACK)

PROGRAM PLUGS:

BLUE PROGRAM PLUG:



RED PROGRAM PLUG:



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