TC 0144
SERIAL REMOTE CONTOLLER

OWNERS MANUAL

TC0144 FEATURES:

TC 0144 is the advanced remote foot panel needed to really benefit from the potentials of TC 2290 DYNAMIC DIGITAL DELAY & EFFECTS CONTROL PROCESSOR in on-stage live performance.

- fast shift between 100 preset sound combinations of:
  any setting on 2290 dynamic digital delay plus
  any of 5 rack or pedal effects plus
  any midi controllable synth's or effects.

- easy access to all sounds through comprehensive displays and single key press preset shifts facility.

- Preset shift- or preset shift plus direct effects on/off control modes.

- 2 programmable switches for boost, mute, tap delay time, trig sample or whatever you prefer.

- reliable control connection through a standard mono jack cable. - hum & noise pickup eliminated -no audio signals pass to the remote controller.

- heavy duty construction for years of rugged on-the-road use.

DESCRIPTION OF CONTROLS

<UP>/<DOWN>
> The <UP>/<DOWN>: switches at left controls 'presetbank' selection.
> Pressed simultaneously with one of the keys <6>-<9>, the <UP><DOWN>works also as on/off switches to operation mode setups.

PRESET DISPLAY.
> Above the <UP> switch, there is a two digit PRESET DISPLAY ranging from 00 to 99.

DELAY ON INDICATION
> The PRESET DISPLAY contains a LED at upper left of the display showing the status of the 2290 delay on/off.

SWITCHES <0>-<9>
> The 10 number switches <0> to <9> control the preset selection within a 'presetbank'. In DIRECT MODE the lower 5 switches control the bypass on/off of the external effects connected to the 2290.

NUMBER DIGITS
> Each of number switches has a display showing the preset number within the bank. Pressing a number switch causes the number to start blinking showing the selection of that preset (within the bank).
> In DIRECT MODE the 5 lower number digits shows 1 –5, corresponding to the number of the external effect. The upper 5 digits shows the number of presets within the bank that are accessible.

EXT.EFFECT 1 to 5 ON INDICATION
> The 5 lower digits each has a LED in the upper left corner of the digitdisplay showing the status of the external effects.

<KEY A>, <KEY B>
> At right we have 2 assign (programmable) keys. <KEY A> and <KEY B> These keys corresponds to the same 2 keys on the front of the 2290. The switches can be programmed to 'press a sequence of keys' on the front of the 2290 (see the application hints section for some examples).
> <KEY A> and <KEY B> has an associated LED showing the same as the LEDs on the front of the 2290 panel.

CONNECTIONS

POWER
> The TC 0144 is hardwired for either 100-120 or 200-240 volts operation. Check the printing to see if this corresponds to your needs.
> If you need to change voltage, do not at temp to do so yourself, but refer to your qualified TC dealer.

TC LINK
> The TC 0144 and the 2290 'talks' over the TC LINK which allows commands (preset and effects change) to be send from the 0144 to the 2290 as well as in the opposite direction.
> The cable for the TC LINK is a simple 'off the shelf standard jack- jack' cable or through an XLR to jack (microphone cable). The 0144 end of the TC LINK has both plug types. This allows a very fast and reliable connection setup.

QUICKGUIDE

INSTALLATION

Power on the TC 0144, connect jack/jack mono cable from TC LINK to TC LINK on the 2290

SETTING UP FOR EFFECTS CONTROL

If you have any effect-pedals or racks with no MIDI input then connect these to the external effects send/returns on the 2290.

OPERATION

You can change to any of 10 presets (within the bank) by any single press of the footswitches <0> to <9>.
The selected preset no. within the bank is indicated by the numberdisplay blinking. The full preset no. is displayed on the 2-digit PRESET DISPLAY above the <UP>/<DOWN> footswitches.
Shift to a higher preset bank by pressing <UP>, a lower preset bank by pressing <DOWN>.
- note that using the <UP>/<DOWN> footswitches does not change preset on the 2290 until you press one of the <0> - <9> footswitches

EXAMPLES

change to another preset within the bank '00':
    <3>   changes to preset '03', number display 3 starts blinking
    <7>   changes to preset '07', number display 7 starts blinking

toggle delay on/off:
    pressing the blinking number switch toggles delay on/off:
    <7>   changes to preset 'x7', if already recalled pressing <7> toggles delay on/off

change to preset 13:
    <UP> press <UP> or <DOWN> until PRESET DISPLAY shows '10'
    <3>   selects preset '3' within bank '10' = preset '13'

shift to DIRECT MODE, press:
    <UP> & <DIRECT MODE> simultaneously

shift. to NORMAL MODE, press:
    <DOWN> & <DIRECT MODE> simultaneously

DIRECT MODE

In DIRECT MODE you can toggle the external effects on 2290 directly by using the lower row of keys.
The upper row of switches selects preset within the bank as before, however, the bank size is only 5 now.
Using the <UP>/<DOWN> keys increases/decreases preset bank by 5.

RELEASE EXTERNAL EFFECTS

In normal operation of the 2290 the status the external effects are 'in preset'. If you want to 'take out of preset' the control of the external effects -press:
<UP> & <RELEASE EXT.EFF> simultaneously

To allow preset control of the external effects - press : <DOWN> & <RELEASE EXT.EFF.> simultaneously

LEARN ON KEY A

To put 'learn delay time' on <KEY A> press:
 <UP> & <LEARN-KEY A> simultaneously

When now 'tapping' <KEY A> sets the delay time on 2290 corresponding to the time between the last two taps.
- To remove 'learn delay time' on <KEY A> press: <DOWN> & <LEARN-KEY A> simultaneously.

APPLICATION HINTS

Adding MIDI controllable effects
Effecting a preset shift from the footpanel also causes 2290 to send this preset number to the 2290 MIDI output. In this way any MIDI controllable effect or instrument can be integrated into the selection of sounds from the TC 0144.
Simply connect the MIDI controllable effect to the MIDI output of 2290. If more than one effect/instrument, then the next one is connected to the MIDI THRU output of the previous effect/instrument (check: the MIDI section of the 2290 manual if in doubt about MIDI channel/omni/on).

Using XLR to jack cable
If you want to use the XLR to jack TC LINK possibility make sure connections are as follows:
XLR connect to TRS JACK
pin 1   sleeve
pin 2   tip
pin 3   ring (- power-backup)

This is the internationally agreed IEC standard connection method for microphone cables, however, quite a few 'exceptions' exist.

Getting power-backup
Using a stereo to stereo jack/jack (or the above mentioned XLR to TRS jack) cable, for the TC LINK: connection will provide you with a 'power-backup' from the 2290, if for some reason the main power to the TC 0144 fails.

TROUBLESHOOTING

If your panel for some reason malfunctions check out this list:

No light in the foot panel
Check out if your main connection is working -e.g. by connecting something else to the same outlet.

Panel seem to work all right but your 2290 doesn't respond.
Please check the cable connection

Footpanel died after a few seconds Somebody turned off the power ?

In Europe, applying 380 Volts to the main connection is not a uncommon fault during main power setup -if this has happened to the TC 0144, (and you're lucky) an internal security fuse probably has blown. Let the sinner do the job it takes to shift this fuse. If you want to keep him alive -make sure he has pulled out the main plug before he starts this operation.

You can do preset shift but nothing else
For proper remote panel operation the 2290 must be fitted with the correct EPROM -(higher than 26.3) To check the EPROM version of your 2290, press <SPEC>, <0>, <ENTER> which shows version no.

SERVICE
TC 0144 contains no user serviceable parts or -instructions inside.
If there is a malfunction please return your TC 0144 to your dealer
for qualified service.

OPTIONS
As an option TC 0144 can be fitted with an optional MIDI output, allowing direct MIDI preset shifts from the TC 0144 to equipment not having a TC LINK input.