

2FX DIGITAL MULTI-EFFECTS CALIBRATION
AND BENCH TEST PROCEDURE

1. POWER SUPPLY

(A) CHECK SUPPLY VOLTAGES AT THE FOLLOWING TEST POINTS:

TP-2: GROUND

TP-19: +5V

TP-18: +15V

TP-17: -15V

ALL SUPPLIES MUST BE WITHIN +/- 4%

2. LEDS

(A) TURN ON POWER. UNIT SHOULD POWER UP IN BYPASS MODE (L-2 ON)

(B) CHECK CLIP LED. TURN POWER ON AND OFF AND WATCH FOR MOMENTARY ILLUMINATION OF L-3.

EFFECT SWITCHING

(C) SWITCH TO FLANGE MODE, L-3 SHOULD BE ON, SWITCH OUT OF BYPASS, SWITCH TO CHORUS MODE, L-3 SHOULD BE OFF AND L-4 SHOULD BE ON. CHORUS AND FLANGE SHARE THE SAME CIRCUITRY AND AT NO TIME SHOULD THESE EFFECTS BE ON TOGETHER. ONLY THE DELAY CAN BE USED SIMULTANEOUSLY WITH EITHER CHORUS OR FLANGE.), SWITCH TO DELAY MODE, L-4 AND L-5 WILL BE ON, ENGAGE REPEAT HOLD (R.H. CAN ONLY BE SELECTED WHEN IN DELAY MODE), SWITCH OUT OF CHORUS (L-4 WILL BE OFF), SWITCH OUT OF DELAY (R.H. WILL ALSO BE OUT). WHEN ALL EFFECTS ARE OFF, UNIT AUTOMATICALLY DEFAULTS TO BYPASS MODE.

(D) DIGITAL DELAY RATE LED SHOULD BLINK SYNCHRONOUS WITH THE DELAY SETTING.

3. CLOCK FREQUENCY FLANGER/CHORUS

(A) SELECT FLANGE MODE, SET ALL FLANGE CONTROLS CCW, PROBE TP-11 WITH FREQ. COUNTER AND ADJUST T-1 FOR 1.638 MHz.

(B) TURN MANUAL CW AND ADJUST T-2 FOR 230 KHz.

DELAY

(C) USING MAXIMUM DELAY SETTING, MULTIPLIER CW AND ALL OTHER SETTINGS CCW, PROBE TP-5 WITH FREQ. COUNTER (NO TP-5 ON UNITS BELOW SER.#310550, USE R. SIDE OF R-250), AND ADJUST T-9 FOR 225 KHz.

(D) WITH MULTIPLIER CCW ADJUST T-10 FOR 900 KHz.

