



TECH NOTES

Fender Musical Instruments Corp.
7975 North Hayden Road Scottsdale, Arizona 85258

TECH NOTE # TN94 - 6

ISSUE DATE: May, 1994

ISSUED BY: C. Colaço

PAGE: 1 of 2

PRODUCT(S) AFFECTED:

BLUES DELUXE™ & BLUES DE VILLE™

(All Serial numbers prior to T-15016)

SYMPTOMS:

Speakers very warm or hot; high frequency distortion.

CONDITION:

High Frequency Oscillation (20kHz-70kHz) in the power amp. This is caused by the primary winding (Blue and Brown wires) of the output transformer, coupling to the input of the Phase Inverter tube (V3A). The physical arrangement of the wires in relation to the traces on the tube circuit board will vary the frequency and amplitude of the oscillation. Proper wire dress and the addition of a capacitor will eliminate the oscillation.

REQUIRED ACTION:

The output transformer's Blue and Brown primary winding wires must be twisted together a minimum of four to five (4-5) times. The twist should extend from the point where the wires pass through the chassis, to where they connect on the tube circuit board.

Install a 47pF 1000V Ceramic Disk Capacitor (Fender Part # 020909) on the solder side of the tube circuit board, from pin #2 of V3 (phase inverter) to ground. The easiest way is to solder one lead of the capacitor to pin #8 of V2. (V2B is an unused tube stage. Therefore pins 6, 7, and 8 are all tied to ground). Solder the other lead to the junction of C23 and pin #2 of V3. This can be done without removing the tube circuit board. C23 is located next to V2 (refer to the Service Diagram).

Continued →

TECH NOTE # TN94 - 6**PAGE: 2 of 2****WARRANTY CLAIM INSTRUCTIONS:**

The above modification should be performed on any Blues Deluxe or Blues De Ville requiring service in or out of warranty. For proper labor reimbursement, please indicate Tech Note Number TN94-6 in the Authorization Code Box (Box # 12) on the Warranty Reimbursement Form. Labor reimbursement = 1/2 Hour.