

# Addendum to SC-5000 Instruction Manual for SC-5000 II (REV 2.20 changes)

## 1. REVISION 2.20 ENHANCEMENTS IN THE SC-5000 II

Revision 2.20 of the The SC-5000 II includes several hardware and software enhancements over the previous Strobe Center-5000 12-wheel tuner:

### a. QUIETER STANDARD OPERATION

The motor speeds are reduced for normal operation. This has the dual effect of 1) greatly reducing the acoustic noise and interference generated by the SC-5000 itself and 2) causing the lowest readable band to be shifted up by one band position for a given sound. When in the "normal" DISPLAY mode, the band "number" on the front panel for the lowest readable band now matches both the international standard octave number for each pitch as well as the octave band numbering on other Peterson tuner models.

### b. NEW "WHISPER" DISPLAY BAND SHIFTING

In addition to the "normal" DISPLAY band setting, the DISPLAY button now selects a "-2" (instead of "-1") band shifting mode and a "+1" (instead of "+2") band shifting mode. Because of the change in "normal" operation described in point (a) above, this has a net effect of maintaining the identical pitch/band relationship (and same usable tuning range) as previous SC-5000 models when selecting these alternate display modes. However, new digital detection and filtering techniques have been developed to produce the "-2" image band shifting effect WITHOUT the need of dramatically increasing the internal motor speeds (as was done in the past). The result: greatly reduced motor wear and WHISPER QUIET operation on all DISPLAY modes! The digital filtering technique used in this "-2" mode also restricts the readable image to only one band at a given time, allowing easier interpretation of pitch at a glance. In addition, the technique creates slower strobe rotation for a given detuning, making high-pitched sounds easier to read and bring in tune.

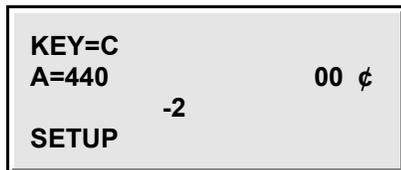
(NOTE: if required, old motor-speed band shifting is still available—consult the factory for details.)

### c. AUTOMATED IMAGE CLARITY

Changes in signal conditioning circuitry provide an automated HI/LO imaging selection based on the newly improved DISPLAY shifting options described above. Lower pitched sounds are filtered more aggressively than higher pitches to provide the clearest possible strobe images. The previous HI/LO IMAGE clarity select and save options have thus been removed from the LCD screens.

## 2. ENHANCING THE VISIBILITY OF THE STROBE PATTERNS

The selection of "-2", "+1", and "normal" DISPLAY band modes is now indicated near the center of the third line of the LCD indicator screen ("normal" is indicated as a blank):



The "DISPLAY" button chooses among the "+2", "-1" and "normal" modes (in that order) when depressed.

