Software Version 8.1
TransPerformance is please to announce that Software Upgrade Version 8.1 is ready for sale to our existing customers. Version 8.1 is the result of years of testing and improvements and also incorporates upgrades suggested by our customers. Our new version 8.1 has addressed many problems found in earlier versions of the system. Each of the upgrades are described in detail in the Users Manual and the Software Upgrade History lists the version of software that the fixes were added. A separate Artist's Manual has also been created.

Summary of New Features
The following is a condensed list of major additions to the software. As with the list of fixes, the list of new additions and are too numerous to mention in this document. For a full list of the new features please read the Users Manual and Software Upgrade History.

- Increased Tuning Accuracy: Improvements to the data acquisition routines ensure greater tuning accuracy and quicker frequency resolution during Touch Up.
- Tension Adjust Mode: The Tension Adjust routine has been added to quickly and easily adjust the string tensions whenever the system determines the strings are outside of their allowable tolerance. An "eagle" and "bulls eye" appear on the LCD and instructions prompt you through the process to adjust the strings to their proper tensions.
- String locks or Lock Nuts that throw the strings either sharp or flat after being tightened down are now compensated for during a tension adjust.
- Footswitch Upgrades: The Footswitch routines have been upgraded to include an intuitive Footswitch Sequence that allows quick and easy editing. A reset feature has been added to allow returning to the first tuning in the sequence by holding the footswitch down for two seconds. Additionally, the Footswitch Sequence appears on the LCD during footswitch operation to remind you where you are in the sequence.
- Current State of Tuning: The system now displays the current state of tuning in the Main Menu. Additionally, upon entering a tuning window, if the tuning name that corresponds to the current state of tuning is present, that name begins blinking.
- Clipboard & Create Tuning: A Clipboard that can hold up to six tunings has been added. The Clipboard can be viewed at any time that shows the most recent six tunings copied (CPY). You can add up to six tunings to the Clipboard, and then insert them into the Artist Library in any order you chose. Complete Tuning Menus can be copied by hitting the CPY button while any menu is blinking.
- Copy & Insert Menus: The complete Tuning Menu can then be inserted into the Artist Library, including the Menu Name and all six tunings, by simply hitting the INS button while a Menu name is blinking and then answering the LCD question prompts.
- New Messages: New LCD messages and prompts have been added or modified throughout the system to ensure easy operation.
- Auto Launch Hot Keys: The DEL key will reset register numbers, such as tempering values, to zero. The INS key will "auto launch" you from the Preset Library to the Artist Library so you can quickly move to the Menu of your choice and insert your tunings.
- Partial & Multiple Capos: The software now supports any combination of full and/or partial capos up to and including the 7th fret. The LCD may display the message "Verify Capoed Frets" if it senses that a capo is attached during the Touch Up strum and can't determine with 100% certainty that either a capo is present or if one or more strings are simply way out of tune. At this point the system displays which frets it thinks the capo is on and prompts you to verify the capoed frets for each string. Following the Touch Up strum, the LCD displays the strings notes at the Capoed frets.
- Accidentals: The tunings in the Preset Library have been updated to display the proper sharp/flat accidentals according to standard music theory. The naming of accidentals has been expanded to allow the interchangeability of sharps and flats by simply pressing the EDT key while editing the notes of any tuning. To allow proper naming of tunings in accordance with music theory, the system also shows F / E# and B / Cb as accidentals.
- Preset Libraries: Four new libraries of chords have been added. The new libraries are grouped by Opens & Keys, Chords, Unisons and Modals and are organized by musical keys. The new organization of the libraries is very useful while composing a new song or simply to find that new tuning you are looking for.

Summary of Problems Addressed
The following is a condensed list of major problems that have been addressed. The list of fixes and are too numerous to mention in this document. For a full list of the fixes please read the Users Manual and Software Upgrade History.

- Software Convention: The system now follows a uniform software convention throughout. Prior to version 6.0, the key strokes to perform standard tasks were at times confusing. The software now follows a set convention and is intuitive in all modes and features.
- Touchup Accuracy: Additional filtering and software routines were added in version 6.0 to make the string frequencies converge on the notes during TouchUp. Prior to version 6.0, the TouchUp routines, although close, did not converge and "danced" around the notes following repetitive Touch Up strums.
- On Screen Tuner (OST button): The On Screen Tuner has been completely rewritten. In version 8.1 the OST quickly reads out the Note, Octave and Cent value of all six strings, making the OST a very useful tool in all situations.
- String Align: String Align was added to assist the artist in situations where one or more of the tune arms are stuck. Before String Align was added, un-jamming the system required reading the manual or calling the company for help.
- System Freezing: Corrections to the code have made the system fully reliable. Earlier versions of the system could freeze unexpectedly; requiring a reboot of the system in certain cases, and required a complete system reset in others.
- Battery Fuel Gauge: The battery system feature has been upgraded and several hardware upgrades have been added to the computer and power supply. As a result of these upgrades the system now has a reliable charging system that includes a battery voltage monitor, checks to determine whether the battery needs to be replaced, and a reliable recharging method that extends the life of the battery. The guitar and power supply need to be returned to TransPerformance for hardware changes in order for the battery system to work correctly.

What is included in the Service and Upgrade?
All systems returned will receive a Full Service, hardware updates to the computer, power supply and cables, and be upgraded to Software version 8.1.

What is included in the Full Service?
- Inspect, adjust & lubricate mechanical device
- Straighten motor shafts
- Noise shielding additions
- Upgrades to computer circuitry
- Upgrades to power supply circuitry
- Inspect cables and connections and update battery cable
- Recalibration
- Upgrade strings to D'Addario reinforced KPL type
- Intonation check and adjustment

Prices include Full Service & Upgrade

Customer Software Version	Upgrade Version	Price
4.2 or lower	8.1	$ 600.00
5.0, 5.1, 5.2	8.1	$ 550.00
6.0, 6.1, 6.2	8.1	$ 500.00
7.0, 7.1	8.1	No charge

Accessories & Upgrades Available

R2V2 Systems, Performer Models Only

Power Supply		**12VDC Sensing Power Supply** Comes standard with charging port, serial port and 2 speed fan.	$ 250.00
Power Supply		Add one charger port to your supply	$ 65.00
Power Supply		Add serial port to your power supply (Used with Data Link)	$ 35.00
Power Supply		Add 2 speed fan support	$ 50.00
Power Cable		22 Foot Power Cable	$ 40.00
Battery		NiMH Battery Pack	$ 100.00
Battery Cable		NiMH Charging Cable, 10"	$ 50.00
Battery Cable		NiMH Power Cable, 18"	$ 35.00
Guitar Strap Holder		NiMH Guitar Strap Battery Holder	$ 25.00
Data Link		**Data Link System(Needs Serial port)** Data Link cables work with the R2V2 Power Supply. Record your tunings to your hard drive for editing and quick upload using HyperTerminal.	$ 100.00

R2V1 Systems, Performer and CAT Models

Power Supply		12VDC Micronta, Replacement	$ 100.00
Power Supply		**Upgrade to R2V2 Power Supply** By upgrading to the R2V2 Power Supply the system will support the NiMH battery and data link.	$ 250.00
Battery		PbAcid Battery	$ 40.00
Cable		22 Foot Power Cable	$ 40.00
Guitar Strap Holder		PbAcid Guitar Strap Battery Holder	$ 25.00

String Brand Recommendations
Our tuning systems exert more stress than normal on the strings as a result of continually changing tunings. Specifically, the plain strings on the high E, B and G strings can unwrap at the ball-end after hundreds of tunings. We find the best solution to be the D'Addario KPL strings. We are recommending that all systems not currently using the D'Addario brand strings be converted to the D'Addario brand during the service and upgrade. While it is not a necessity, we strongly recommend this change as a result of problems we have identified with the manufacturing processes of certain manufacturers that lead to unpredictable tuning operation. D'Addario strings with the KPL prefix have a soldered twist and are the most reliable strings to use.

Where to get New Strings
While most music stores carry the D'Addario brand strings, only a small percentage of the stores carry the reinforced KPL line of strings. JustStrings.com is one possible solution to locating and purchasing the KPL reinforced strings.

Simply go to www.juststrings.com and click on the link to "single strings" in the left column, then choose "Guitar" in the dialog box that pops up, then choose "D'Addario" from the list of manufacturers, then choose "Plain Steel" from the list. The reinforced strings for the E, B & G strings have the prefix "DAD_KPL<string gauge>"

Or simply follow this link which will take you immediately to the page where the reinforced strings are sold.
http://www.juststrings.com/plainsteeldaddarioguitarsinglestrings.html

How to Place and Order?
1. Fill out order form, feel free to call for assistance
2. Fax or email the form back, or call to place the order
3. Systems and products will be return shipped when payment is received
4. We accept checks and Visa, MasterCard, American Express

What needs to be returned by the Customer?
Your complete system including the guitar, power supply, batteries and cables need to be returned in order that we can make hardware changes to the circuitry for some of the new features to operate.

Instructions for Shipping
1. Put the tuning system in STD Tuning. If your system is not operating, manually tune to STD using the tuning pegs.
2. Set bridge height where you like it so we can retain your setting. If you don't have a preference, then feel free to call for assistance and recommendations. Having your optimal setting during the service and upgrade will allow the system to receive the best calibration which will produce the best tunings before TouchUps are done.