STEINBERGER SOUND

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Dear Steinberger Owner:

Thank you and congratulations on your purchase of a Steinberger instrument. We trust it will be everything you expected, and that you will enjoy playing it for years to come.

Double Ball Strings:
Your instrument is equipped with the Steinberger Double Ball String System (tm). Steinberger dealers, as well as many other music stores worldwide carry double ball strings. We recommend Steinberger brand strings, made exclusively by La Bella to our exact specifications. Many other high quality strings are also available. Just give us a call with any questions you have about string availability for your instrument.

String adaptors:
Conventional single ball strings can be used with a string adapter available from Steinberger.

TransTrem (tm):
Although standard Double Ball Strings will fit the TransTrem, for total transposing performance, calibrated strings for the TransTrem are recommended.

When you send in your registration, feel free to request our color brochure showing our complete line of instruments and accessories. We will also include information on our newest products, as well as other news about Steinberger which we're sure you will find interesting.

If you have any questions about your instrument, feel free to contact Steinberger Sound. Also, please let us know your new address should you move, so we can stay in touch!

Thanks again for your support.

STEINBERGER SOUND CORP.

MD/slb

BASS TRANSTREM(tm) INSTRUCTIONS

Understanding these instructions is essential in order to get the full benefit of this sophisticated mechanism.

1. INSTALLING TREMOLO ARM: To install, spin arm clockwise into threaded hole, a minimum of four full turns. When arm is screwed in almost to desired position, tighten knurled locking nut firmly down. Tighten both arm and nut together for about 1/8th turn more to lock into position.

To remove or re-adjust arm, spin arm counter-clockwise until small transposing arm contacts back of tone control. Continue turning until arm is free.

To adjust rotational friction of transposing arm, turn set-screw located diagonally under arm on tuner housing.

2. TO USE TREMOLO: Rotate arm into playing position and use normally.

3. TO TRANSPOSE: Push arm down, then rotate clockwise to engage D, C, and B tunings. Pull arm up and rotate clockwise to engage F# and G tunings. To disengage, rotate arm counter-clockwise.

4. TO TUNE: First lock tremolo in center E position by rotating arm clockwise. then tune individual strings with small knobs as you would normally. ALWAYS LOCK BEFORE TUNING!

5. TO ADJUST TREMOLO RETURN: After unit is tuned, as in step 4 above, rotate arm counter-clockwise to disengage center lock. If tremolo moves and does not remain in tune, turn large SPRING TENSION KNOB (just under tuning knobs) to adjust pitch return as required. Tremolo should not move or change pitch when going in and out of locked position.

6. ACTION AND INTONATION: First unlock the saddles with side set screw.
Adjust action (vertical movement) with individual saddle set screws.
Adjust intonation (horizontal movement), by pushing saddles with fingers. If intonation is sharp at the 24th fret, push saddles back (toward tuning knobs). If intonation is flat at the 24th fret, push saddles forward (toward headpiece).
ALWAYS LOCK SIDE SET SCREWS WHEN BRIDGE ADJUSTMENT IS COMPLETED.

7. TO ADJUST TRANSPOSING FEATURE: The TransTrem(tm) should transpose all strings in tune. Starting from regular E tuning, the pattern should be as follows:

BASS TRANSPOSING CHART

STRING	DOWN 3 NOTCHES	DOWN 2 NOTCHES	DOWN 1 NOTCH	CENTER NOTCH	UP 1 NOTCH	UP 2 NOTCHES
1st or G	D	Eb	F	G	A	Bb
2nd or D	A	Bb	C	D	E	F
3rd or A	E	F	G	A	B	C
4th or E	B	C	D	E	F#	G

Adjust TransTrem with these intervals

If a string does not maintain tune according to this chart, the tuner jaw must be adjusted up or down. Use the key provided, a small screwdriver, or a coin to adjust the screw located just behind each jaw. Turn clockwise to move jaw down, counter-clockwise to move jaw up.

Each string should be adjusted individually according to the following procedure:

1) Set transposing arm up 1 notch and tune (with tuning knob, not jaw height adjustment screw) according to chart. (Example: "E" string should be F# in 1st notch up.)

2) Next transpose to 2nd notch down and check new pitch with chart. Do not touch tuning knob. (Example: "E" string should be C in 2nd notch down.) If pitch is sharp, raise jaw by turning screw counter-clockwise. If pitch is flat, lower jaw by turning screw clockwise. 1/4 turn will have a significant effect.

3) Now go back to 1st notch up and retune using tuning knob. (F# in this example.) Next go back to 2nd notch down (C in this example) and check result of jaw height adjustment. Readjust jaw height if necessary as in step 2 above.

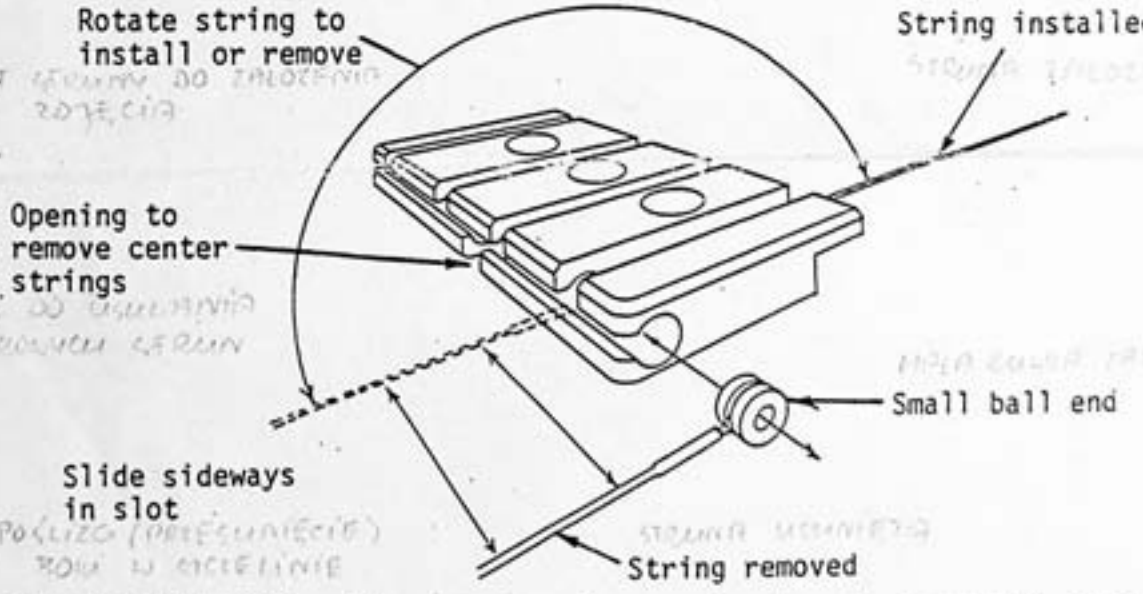
Continue checking and adjusting the 1st notch up and the 2nd notch down until the tuning in both positions is correct. Remember, use tuning knob only in the up position, and jaw height adjustment only in the down position. When string is in tune in these two positions, all other transposing positions should be automatically correct.
Follow this procedure for each individual string.

If the jaw adjustment is way off, it can be roughly set by first turning the adjustment screw counter-clockwise until the jaw stops in the full up position. Next turn screw clockwise according to this chart:

E - Turns, A - Turns, D - Turns, G - Turns

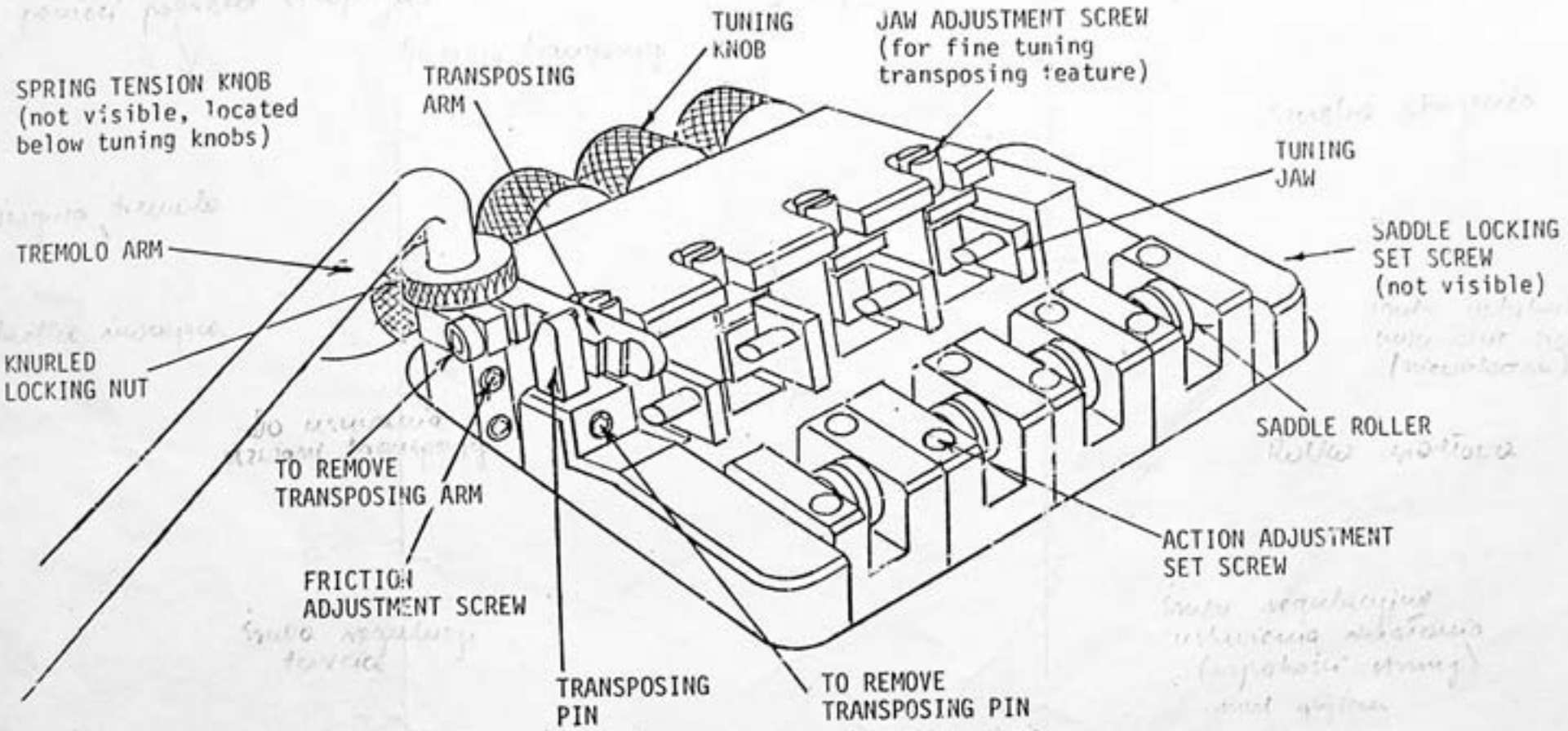
NOTE: CALIBRATED transposing strings are required for best results.

This process is greatly facilitated by use of a chromatic electronic tuner. With an electronic guitar tuner with only 6 intervals, find on your transposing chart the steps for each string that are tuned to E, A, D, or G and use these intervals to set transposing feature. (For best accuracy, use steps that are furthest apart.) While this adjustment may be a bit confusing at first, it is really very easy once you get the feel for it.



8. TO REPLACE STRINGS: To remove, loosen tuning knob until string is loose and ball can slide sideways off jaw pin at bridge end. Next rotate string 180 degrees so it pulls straight out of headpiece, as drawn. To install strings, slide small ball end sideways into headpiece and rotate 180 degrees. Place large ball on jaw pin at bridge end and tune.

After rough tuning, push tremolo all the way up and down several times to set strings, then fine tune and adjust transposing feature as needed.



BASS TRANSTREM

BASS ELECTRONICS

LOW IMPEDANCE SYSTEM (REQUIRES BATTERY)

FRONT KNOB - VOLUME FRONT PICKUP
CENTER KNOB - VOLUME REAR PICKUP
REAR KNOB - TONE (TREBLE CUT)

LOW IMPEDANCE WITH ACTIVE EQUALIZATION (REQUIRES BATTERY)

FRONT KNOB - MASTER VOLUME
CENTER KNOB - PICKUP BALANCE
REAR KNOB - TONE:
CENTER DETENT - FLAT
COUNTERCLOCKWISE - BASS BOOST, TREBLE CUT
CLOCKWISE - TREBLE BOOST, BASS FLAT

BATTERY

DISTORTION FROM THE BASS INDICATES BATTERY NEEDS REPLACEMENT. (AVERAGE LIFE 6 MONTHS PLUS UNDER NORMAL USE).

PLUGGING IN CORD TURNS ON BATTERY - ALWAYS UNPLUG CORD WHEN NOT IN USE.

TO REPLACE BATTERY:

FOR L-SERIES - INSERT COIN OR FINGERNAIL INTO OPEN SLOT AT EITHER END OF BATTERY COVER LOCATED ON BACK OF BODY. PUSH COVER SIDEWAYS UNTIL IT IS FREE TO OPEN. INSTALL NEW BATTERY. REPLACE COVER BY INSERTING ONE END INTO OPENING AND PUSHING UNTIL OTHER END POPS INTO PLACE.

FOR M-SERIES - UNSCREW BACK CONTROL COVER

FOR P-SERIES - UNSCREW BATTERY COVER SECTION OF PICKGUARD ABOVE BRIDGE AREA

GUITAR ELECTRONICS

LOW IMPEDANCE SYSTEM (REQUIRES BATTERY)

FRONT KNOB - VOLUME
REAR KNOB - TONE (TREBLE CUT)

PICKUP SELECTOR -

2 PICKUP TOGGLE:
FRONT - FRONT PICKUP
CENTER - BOTH PICKUPS
REAR - REAR PICKUP

3 PICKUP PUSH BUTTON:
FRONT - FRONT PICKUP
CENTER - CENTER P.U.
REAR - REAR PICKUP

3 PICKUP 5 WAY TOGGLE:
FRONT - FRONT PICKUP
HALFWAY - FRONT & CENTER
CENTER - CENTER PICKUP
HALFWAY - CENTER & REAR
REAR - REAR PICKUP

LOW IMPEDANCE WITH ACTIVE EQUALIZATION (REQUIRES BATTERY)

FRONT KNOB - VOLUME
REAR KNOB - TONE: CENTER DETENT - FLAT
COUNTERCLOCKWISE - BASS BOOST, TREBLE CUT
CLOCKWISE - TREBLE BOOST, BASS FLAT
PICKUP SELECTOR: SAME AS LOW IMPEDANCE LISTED ABOVE.

CO-X CONNECTOR SYSTEM

ALL L-SERIES, ACTIVE EQ CIRCUITS AND PICKUPS ARE EQUIPPED WITH SPECIAL SNAP ON-OFF CONNECTORS FOR EASY CHANGES AND REPAIR.

STEINBERGER STANDARD BASS/GUITAR BRIDGE-TUNER INSTRUCTIONS

To Tune:

Turn knobs at rear of bridge clockwise to tighten, counter-clockwise to loosen.

To Change Strings:

Turn tuning knobs counterclockwise until the string ball is fully visible. Remove the ball and the string will then slip easily from the headpiece.

Install by putting ball* end into headpiece first, then drop second ball* into tuner jaws. Tighten tuning knob until proper pitch is achieved. Stretch string and retune.

* On bass, <u>small</u> ball end fits in headpiece and <u>large</u> ball fits in bridge. On guitar, both balls are the same.

To Use Conventional Strings (one ball only):

A Steinberger string adaptor is required. Put ball end in bridge and thread through headpiece and string adaptor holes. The small lip on string adaptor should be facing away from the neck and to the front in order to protect string ends. Firmly tighten set screws in string adaptor to clamp strings. Cut excess string length with wire cutters.

To Adjust Action:

Loosen set screw on side of bridge, adjust set screw in top of saddle up or down to desired action height. Tighten set screw on side of bridge to lock.

To Adjust Intonation:

Loosen set screw on side of bridge. Turn set screw in front of saddle to adjust - backward (toward tuner) if intonation is sharp at 24th fret; forward (toward head) if intonation at 24th fret is flat. Tighten set screw on side of bridge to lock.

STEINBERGER™

DOUBLE BALL SYSTEM

These strings have been manufactured to the exact specifications of **Ned Steinberger,** Steinberger Strings are the only strings authorized to carry the Steinberger label.

Steinberger Double Ball Strings may also be used on Steinberger licensed guitars & basses, such as: **Arbor, Burnside, Cort, Hohner, Lotus, Mach I and Status...**

Steinberger Double Ball Strings for guitar and bass are available in large selection of gauges and constructions.

Standard Double Ball Guitar Strings may be used for the Transposing-Tremolo model guitar, however for best results, we recommend the calibrated sets.

ELECTRIC GUITAR

S838 Ultra Light	008	011	014	020	030	038
S942 Extra Light	009	011	016	024	032	042
S946 Light	009	011	016	026	036	046
S1046 Regular	010	013	017	026	036	046
S1048 Medium	010	013	017	028	038	048
S1150 Special	011	014	018P	028	038	050

CALIBRATED TRANSPOSING TREMOLO*

ST946	009	011	016	026	036	046
ST1046	010	013	017	026	036	046

*specify Threaded Ball or Plain Ball

ELECTRIC BASS

S100L Extra Light	040	060	075	095
S100LS Soft	040	058	080	102
S100S Standard Light	045	065	080	105
S100ML Medium Light	050	070	080	105
S100M Medium	050	070	085	110
S200 Quarter Round	042	060	082	104

5 String Low B

S300	045	065	080	105	128

5 String High C

S400	029	045	065	080	105

Manufactured Exclusively By:

E&O Mari LaBella

LIST PRICES

S-Series Guitar	$ 9.50
ST-Series Guitar	14.00
S100 Series Bass	35.00
S200 ¼ Round Bass	38.50
S300 5-String Bass	47.10
S400 5-String Bass	41.90
NEW! S500 Flatwound Bass	50.00

TM 717-005