Kahler®

MADE IN USA

2720 SPYDER™
Double Locking Tremolo System

ADJUSTMENTS & SETUP

NOTE: THERE ARE THREE SADDLE OPTIONS FOR THE 2720 SERIES.

A. Locking with Wrench
B. Non Locking
C. Finger Locking

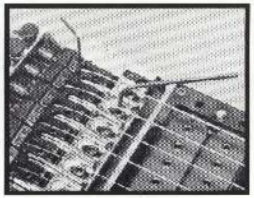
PLEASE DETERMINE WHICH SADDLES ARE ON YOUR SYSTEM BEFORE STRINGING UP YOUR BRIDGE.

"THE CHOICE OF PROFESSIONALS"

APM P.O. Box 9305 Anahiem, CA 92812

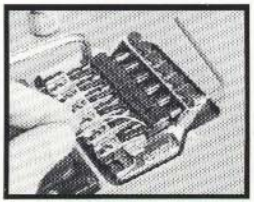
A. Locking with Wrench

String Height Adjustment (Optional)



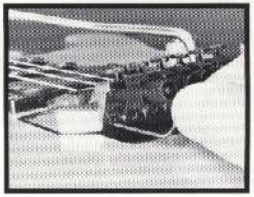
Loosen Intonation Block Holddown Bolt counter-clockwise with wrench (C). Using wrench (A), turn each Saddle Riser Screw clockwise to achieve desired string arc over fingerboard and neck. Retighten the Intonation Block Holddown Bolt.

String Installation/String Locking At Bridge

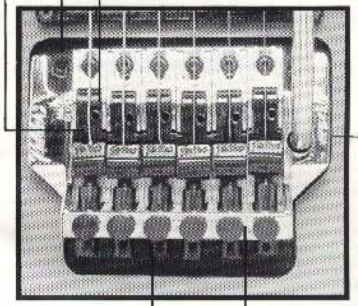


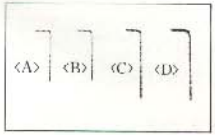
Loosen Nut Lock Tab Bolt at headstock with wrench (D). Adjust fine tune knob to set at midpoint position. Cut off ball end of string. With wrench (D), turn Lock Bolt counter-clockwise three turns. Place string end between Lock Block and Lock Block Housing. While pushing Lock Block forward with thumb or finger, tighten Lock Bolt clockwise until string is locked. Fasten string to machine head, stretch string as you tune to pitch, and lock string at headstock. Stretch string once more and fine tune to pitch.

Intonation Adjustment (Optional)



Loosen Intonation Block Holddown Bolt with wrench (C). Push arm down; use wrench (B) to dial in Intonation Adjustment Bolt under saddle housing. Tighten Intonation Block Holddown Bolt.

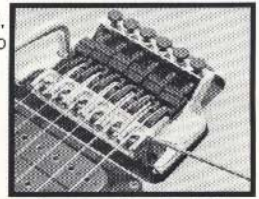




Wrench A: .050
Wrench B: 1/16
Wrench C: 5/64
Wrench D: 3/32

Bridge Mounting Bolts/Life Time Guaranteed Knife Edge

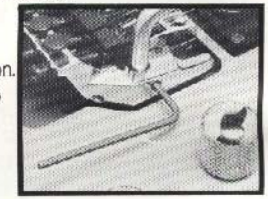
With wrench (C), turn clockwise to raise the bridge and counter-clockwise to lower the bridge.



To obtain four times the wear of a plate knife edge, turn Mounting Bolt 1/4 turn with wrench (C) for a clean, sharp knife edge. NOTE: Keep your bridge pivoting accurately by lubricating the two hinge points on the bridge plate with heavy grease.

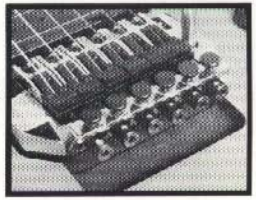
Tremolo Arm Clutch

Use wrench (D) to adjust rotational tension. Turn clockwise to tighten tension; turn counter-clockwise to loosen tension.



Fine Tuning

For precise fine tuning, after setting the nut lock or string lock, adjust fine tune knobs.



Locking at witness points licensed by Floyd Rose.
Patents issued and applied for by A.P.M.W./Dave Storey/David Petschulat

B. Non-Locking Saddle

String Height Adjustment

Same as Section A.

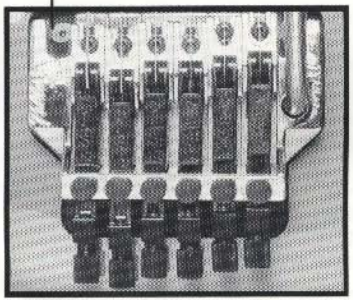
Intonation Adjustment

Same as Section A.

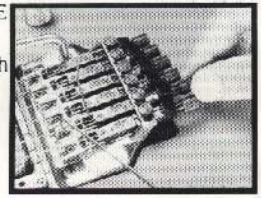
String Installation

Do Not Cut Off Ball End of String. Same as C, but omit unscrewing Saddle Lock Screw. Simply push string through end of non-locking saddle lever, fasten to machine head, etc.

C. Finger-Locking

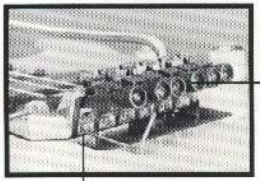


String Height Adjustment



For two outside E strings, adjust string height with Bridge Mounting Bolts (see Bridge Mounting Bolt section for adjustment).

To set arc over neck, first loosen Intonation Block Holddown Bolt with wrench (C). Unscrew Lock Screw at bridge end with fingers until Piston is hidden and right Saddle Riser Screw is exposed. Use wrench (A) to turn Saddle Riser Screw and raise or lower saddle. Tighten Intonation Block Holddown Bolt.

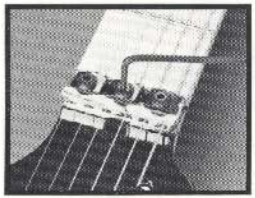


String Installation/String Locking At Bridge

Do Not Cut Off Ball End. Same as Section A, but unscrew Saddle Lock Screw, push string through Screw's end, and tighten Lock Screw to lock string.

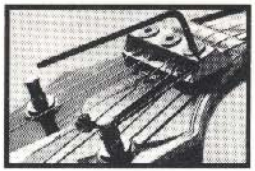
Intonation Adjustment (Optional)

Same as Section A.



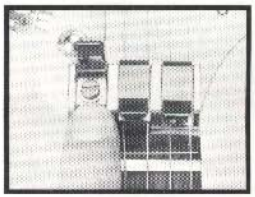
Nut Lock with String Director™

Use wrench (D). Pass strings over slots and through String Director,™ tune to pitch and lock in place.



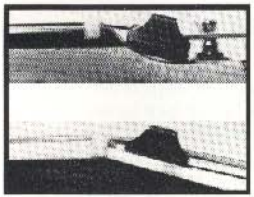
String Lock (Standard)

Use wrench (D). Pass strings through string lock slots, tune to pitch and lock in place.



String Lock (Deluxe)

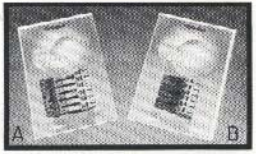
Pull Lever up and back toward headstock. Push Wedge backward and loosen slotted screw counter-clockwise with fingers. Pass strings through string lock slots, tune to pitch. Tighten Screw clockwise with fingers, so that when pushing Lever down toward neck, Lever snaps into locking position. **Note: Do Not Over-tighten** screw so that you have to force lever to lock into place.



String Lock Positioning

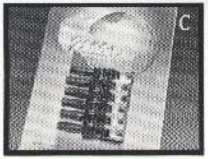
If the angle of the strings behind the nut is excessive, it will cause the strings to bind in the nut grooves and restrict correct return to pitch. On some guitars, it may be necessary to shim your String Lock

KAHLER IS MODULAR!



Upgrade your Kahler™ Tremolos with all new, INTERCHANGEABLE saddle sets and other assorted parts.

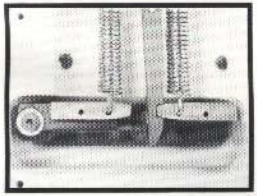
A) FINGER-LOCKING SADDLE SET, P/N 5350-1,
B) NON-LOCKING SADDLE SET, P/N 5340-1, AND
C) WRENCH-LOCKING SADDLE SET
   1) WITH SADDLE HEIGHT ADJUSTMENT - P/N 5332-6
   2) NO SADDLE HEIGHT ADJUSTMENT - P/N 5332-0



ARM MODULE ASSEMBLIES

A) TRADITIONAL THREADED TREMOLO ARM & MODULE ASSY, P/N 5391-SS1
B) FRICTION-FREE, "NO WIGGLE" BALL BEARING ARM & MODULE ASSY, P/N 5392-SS1

THE LATCH™



Used with the Ball Bearing Arm Module Assy, your bridge system can function as a tremolo or a fixed, non-tremolo system by a simple sweep of the arm.

1) Tune up first, and then adjust and lock the Latch
2) Bend notes on the neck or break a string, and your guitar stays in tune.
3) When Latch is released, PITCH REMAINS THE SAME - YOUR GUITAR IS STILL IN TUNE!

P/N 5390-K1 —— Latch Assembly for Ball Bearing Arm & Module,

P/N 5393-K1 —— Latch Assembly with Ball Bearing Arm & Module Assy,

P/N 5390-SS1 —— Latch Assembly for Ball Bearing Arm & Module,

P/N 5393-SS1 —— Latch Assembly with Ball Bearing Arm & Module Assy,

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