

Extension with Gates Installation Instructions

Read through all instructions before beginning any installation work.

- 1. Take off the strings.
- 2. Take off nut.
- 3. Cut off the E-string part of the nut. The finished (cut) edge of the remaining nut will be 2.5 mm from the center of the nut A-string groove. (See diagram)
- 4. Glue the modified nut back on.
- 5. Replace strings G and D. Wind the A string onto the previous E tuner.
- 6. Place extension body along side the fingerboard and scroll.
- 7. Draw curvature of scroll onto wood shim and rough cut out shape and place carved shim on top of scroll.
- 8. Saw off excess extension body so that it butts up to end of the Bass fingerboard.
- 9. If the sides of the bass fingerboard are thinner than 11mm then the bottom of the brass extension body needs to be filed down.
- 10. Draw the Bass fingerboard curvature, 0.5 mm higher, on butt end of the extension fingerboard. Hand-plane the extension fingerboard to match the curve of the Bass fingerboard.
- 11. Start final cutting of the (extension) wood shim while making sure that the extension body continues the trajectory that the E-string would follow toward scroll.
- 12. With the wood shim near final thickness, place the extension so it rests on the scroll and

(neck) nut area. Cut a little notch for the C-string to go through on the top end of the extension fingerboard. (We have found that the extension itself doesn't need

- 13. Wind C-string through the extension onto the A-string tuning machine. Even minimum tension on the string will pull the extension body solidly and securely into place. With the string as a guide, final adjustments can be made by:
 - a) Moving the top part of the extension slightly left or right so that the C-string will be centered on the extension fingerboard. Shape shim accordingly.

Cutting down the wood shim so that the clearance of the C-string will be (measuring

- b) from the bottom of the string) 5.5 mm of off the Bass fingerboard. You will be taking the C-string and extension on and off several times. If you have cut too much off the
- 14. Find the right hole (on extension body) for the front L Bracket.
- 15. Screw both L brackets to the bottom of the brass extension.
- 16. Put extension back on scroll. Run the C-string through the extension.
- 17. Bend L brackets so that they are flush with pegbox wall.
- 18. Drill holes and screw L brackets to pegbox walls.
- 19. Place gates onto extension and regulate their height.
- 20. Final placement of gates will be adjusted when the string is tuned.