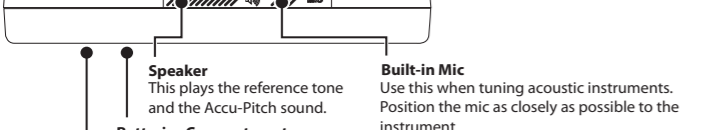
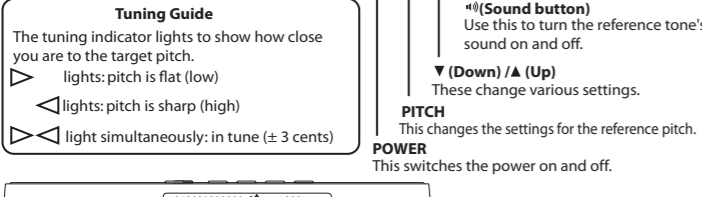
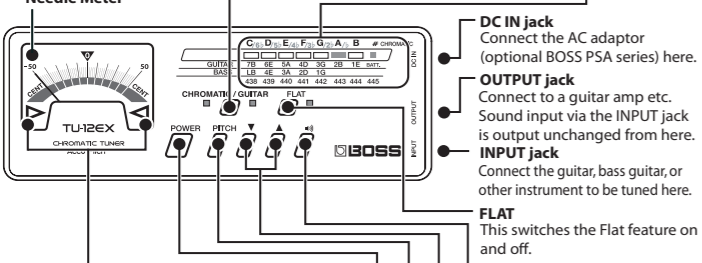


Owner's Manual

Thank you, and congratulations on your choice of the BOSS TU-12EX. Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (supplied on a separate sheet). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's Manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

As shipped, the TU-12EX's batteries are not yet installed. Be sure to read the section "Changing the Batteries," and then follow the instructions to install the batteries. Copyright © 2008 BOSS CORPORATION. All rights reserved. No part of this publication may be reproduced in any form without the written permission of BOSS CORPORATION.



Chromatic/Guitar. This changes the tuning mode. Green indicator. Auto CHROMATIC mode. Red indicator. Manual GUITAR mode. Batteries Compartment. Meter Adjustment Control (bottom of the unit). Speaker. Built-in Mic.

- 1. Connect the instrument to be tuned to the INPUT jack.
2. Press [POWER] to switch the power on.
3. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 4. Play a single note on the instrument.
5. Tune the instrument.
6. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- How to Use the Tuner (Auto CHROMATIC Mode)
1. Connect the instrument to be tuned to the INPUT jack.
2. Press [POWER] to switch the power on.
3. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- How to Use the Tuner (Manual GUITAR Mode)
1. Connect the instrument to be tuned to the INPUT jack.
2. Press [POWER] to switch the power on.
3. Press [CHROMATIC/GUITAR] to enable the "GUITAR" setting (lighting the red indicator).

- TU-12EX Settings
Changing the Reference Pitch for Tuning
1. Hold down [PITCH] and press [V] or [A] to choose the reference pitch you want.
2. Release [PITCH] to set the selected reference pitch.

- Flat Tuning (Flat Feature)
1. Press [FLAT] to switch on the Flat feature (the red indicator lights).
2. Press [V] or [A] to set the number of flats (the number of flat semitones) that you wish to tune to.
3. Press [FLAT] again.
4. To disable the Flat feature, press [FLAT] so that its red indicator goes out.

- LEDs
DC-IN-Bookse
OUTPUT-Bookse
INPUT-Bookse
Flat
Richtanzeige
Richtanzeige
Richtanzeige
Richtanzeige
Richtanzeige

- Verwendung des Stimmgeräts (Auto-CHROMATIC-Modus)
1. Schließen Sie das zu stimmende Instrument an der INPUT-Buchse an.
2. Drücken Sie die [POWER]-Taste, um das Gerät einzuschalten.
3. Drücken Sie die [CHROMATIC/GUITAR]-Taste, um die Einstellung „CHROMATIC“ zu aktivieren (die grüne LED leuchtet).

- Verwendung des Stimmgeräts (Manual-GUITAR-Modus)
1. Schließen Sie das zu stimmende Instrument an der INPUT-Buchse an.
2. Drücken Sie die [POWER]-Taste, um das Gerät einzuschalten.
3. Drücken Sie die [CHROMATIC/GUITAR]-Taste, um die Einstellung „GUITAR“ zu aktivieren (die rote LED leuchtet).

- Verwendung des Stimmgeräts (Auto-CHROMATIC-Modus)
1. Schließen Sie das zu stimmende Instrument an der INPUT-Buchse an.
2. Drücken Sie die [POWER]-Taste, um das Gerät einzuschalten.
3. Drücken Sie die [CHROMATIC/GUITAR]-Taste, um die Einstellung „CHROMATIC“ zu aktivieren (die grüne LED leuchtet).

- Verwendung des Stimmgeräts (Manual-GUITAR-Modus)
1. Schließen Sie das zu stimmende Instrument an der INPUT-Buchse an.
2. Drücken Sie die [POWER]-Taste, um das Gerät einzuschalten.
3. Drücken Sie die [CHROMATIC/GUITAR]-Taste, um die Einstellung „GUITAR“ zu aktivieren (die rote LED leuchtet).

- Auswechseln der Batterien
Die BATT-LED blinkt, wenn die Batteriespannung nachlässt.
1. Öffnen Sie das Batteriefach (an der Unterseite des Geräts), indem Sie die Abdeckung in Richtung OFFEN (Öffnen) schieben.
2. Entfernen Sie die alten Batterien aus dem Batteriefach.
3. Legen Sie zwei neue AAA-Batterien desselben Typs ein.

- Technische Daten
Stimmbereich
Referenzhöhe
Stimmgenauigkeit
Stromversorgung
Durchflussstrom

- Speicherfunktionen
Wenn in den TU-12EX Batterien eingeleert sind, bleiben die nachstehend beschriebenen Einstellungen auch beim Ausschalten im Speicher erhalten.

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

- Speicherfunktionen
Einstellung Standard-einstellungen
Stimmmodus-Einstellung CHROMATIC oder GUITAR
Referenzhöhe 440 Hz
Saltennummern im Manual-GUITAR-Modus 6E (6ème corde/Mi3)

Tuning While Listening to the Reference Tone (Sound Mode)

- 1. Choose the type of tuning you want to use (e.g., Tuning Mode, Flat feature, etc.).

- 2. Press [V] or [A] (Sound) to play the reference tone.

- 3. Press [Y] or [L] until the indicator for the note name/string number you wish to tune is lit.

- 4. Tune the instrument to the reference tone.

- 5. Press [X] (Sound) to stop playing the reference tone.

Calibrating the Meter's Needle

- 1. Hold down [PITCH] and turn the power on.

- 2. If the meter's needle fails to point to the 0 position, use a flathead screwdriver (a 2.0 mm precision screwdriver) to turn the meter adjustment control until the needle points to 0.

- 3. After completing calibration, press [POWER] to switch off the power.

Useful Features

Preventing Battery Drain If You Forget to Switch Off the Power (Auto Power-Off Feature)

- When using battery power, if the TU-12EX remains in the state described below for approximately thirty minutes after it was turned on, the power will automatically be switched off.

- Deactivating the Auto Power-Off Feature
You can temporarily deactivate the Auto Power Off feature when you power up the TU-12EX. To do so, simultaneously hold down [Y] and [L] while you press [POWER] to turn on the power.

Using a Tone to Indicate Tuning is Completed (Accu-Pitch Feature)

- When the Accu-Pitch Feature is on, a beeping sound is played when the sound of the instrument you're tuning has stabilized at a pitch that is no more than three cents sharp or flat. This sound tells you that the pitch is in tune.

Switching the Accu-Pitch Feature On and Off

- 1. Hold down [F] (Sound) and press [POWER] to switch on the power.

- 2. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 3. Press [POWER] to switch the power on.

- 4. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 5. Tune the instrument.

- 6. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 7. Press [POWER] to switch the power on.

- 8. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 9. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 10. Tune the instrument.

- 11. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 12. Press [POWER] to switch the power on.

- 13. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 14. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 15. Tune the instrument.

- 16. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 17. Press [POWER] to switch the power on.

- 18. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 19. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 20. Tune the instrument.

- 21. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 22. Press [POWER] to switch the power on.

- 23. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 24. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 25. Tune the instrument.

- 26. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 27. Press [POWER] to switch the power on.

- 28. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 29. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 30. Tune the instrument.

- 31. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 32. Press [POWER] to switch the power on.

- 33. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 34. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 35. Tune the instrument.

- 36. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 37. Press [POWER] to switch the power on.

- 38. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 39. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 40. Tune the instrument.

- 41. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 42. Press [POWER] to switch the power on.

- 43. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 44. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 45. Tune the instrument.

- 46. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 47. Press [POWER] to switch the power on.

- 48. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 49. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 50. Tune the instrument.

- 51. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 52. Press [POWER] to switch the power on.

- 53. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 54. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 55. Tune the instrument.

- 56. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 57. Press [POWER] to switch the power on.

- 58. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 59. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 60. Tune the instrument.

- 61. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 62. Press [POWER] to switch the power on.

- 63. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 64. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 65. Tune the instrument.

- 66. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 67. Press [POWER] to switch the power on.

- 68. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 69. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 70. Tune the instrument.

- 71. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 72. Press [POWER] to switch the power on.

- 73. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 74. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 75. Tune the instrument.

- 76. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 77. Press [POWER] to switch the power on.

- 78. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 79. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 80. Tune the instrument.

- 81. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 82. Press [POWER] to switch the power on.

- 83. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 84. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 85. Tune the instrument.

- 86. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 87. Press [POWER] to switch the power on.

- 88. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 89. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 90. Tune the instrument.

- 91. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 92. Press [POWER] to switch the power on.

- 93. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 94. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 95. Tune the instrument.

- 96. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 97. Press [POWER] to switch the power on.

- 98. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 99. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 100. Tune the instrument.

- 101. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 102. Press [POWER] to switch the power on.

- 103. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 104. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 105. Tune the instrument.

- 106. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 107. Press [POWER] to switch the power on.

- 108. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 109. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 110. Tune the instrument.

- 111. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 112. Press [POWER] to switch the power on.

- 113. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 114. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 115. Tune the instrument.

- 116. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 117. Press [POWER] to switch the power on.

- 118. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 119. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 120. Tune the instrument.

- 121. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 122. Press [POWER] to switch the power on.

- 123. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 124. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 125. Tune the instrument.

- 126. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 127. Press [POWER] to switch the power on.

- 128. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 129. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 130. Tune the instrument.

- 131. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 132. Press [POWER] to switch the power on.

- 133. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 134. Press [Y] or [L] to light the indicator for the string number you want to tune.

- 135. Tune the instrument.

- 136. Repeat Steps 4-6 as necessary to tune the rest of your instrument's strings.

- 137. Press [POWER] to switch the power on.

- 138. Press [CHROMATIC/GUITAR] to enable the "CHROMATIC" setting (lighting the green indicator).

- 139. Press [Y] or [L] to light the indicator for the string number you want to tune.

