### Things you will need

- Screedwire, cellulose tape, rubber bands, scissors, two new AA alkaline batteries or two zinc-carbon batteries (*Nicad and other rechargeable batteries have low voltage. Therefore the guitar may not work when these batteries are used. Oxyride batteries have high voltage. Using these batteries may break the circuit.*)

### Assembly time: Approx. one hour

### Notes for tightening screws

When tightening screws, firmly press the screwdriver straight against the screw and turn it. It is said that 70 percent of the force applied is used for pushing the screw hole and 30 percent for turning the screw. The types of screws used for the supplement are those that are inserted (self-threading). For this reason, the screw hole may be damaged if you exert too much force when tightening the screw. Since it is difficult to turn a precision screwdriver, please use a small driver that has a grip radius of about 2 cm.

### Assembling the Body

1. **Assemble the tuning unit**
   - Attach the tuning shafts to the body
   - Face the side with the square protrusion up and insert the tuning shafts firmly from the outside.
   - Leave about 2 mm of the head protruding.

2. **Attach the neck**
   - Turn the neck and body over and attach the body to the neck from above. Fasten the neck side (a) only with a bolt and nut. At this point, there is no need to tighten the bolt and nut firmly.

3. **Attach the strings**
   - 1. Temporarily insert the washer head screws into the back of the neck.
   - 2. Attach the tuning peg knobs
   - Attach the tuning peg nuts to the tuning peg knobs. Then attach them to the tuning shafts by turning the knob.
   - 3. Adjust the strings
   - Make adjustments so that the wings of the knob are the same height as the tuning shaft.

### Assembled Product and Part Names

#### CAUTION

- Please be sure to read the following instructions before assembling the kit.
- Always do the same steps that have been damaged or detached during use.
- **Take necessary care when handling parts with pointed edges. There is a risk of injury.**
- **This kit includes screws and other small parts. Be careful not to swallow them.**
- **CAUTION** Please dispose of this product in accordance with local regulations.

#### Materials used in this kit

- Body (black), neck (white): GPPS
- Pickup cover, pickup, pickup top plate, magnet: ABS resin
- Screws, bolts, nuts (black): Iron
- Lead wires: Copper (polyurethane leads)
- * Please dispose of the product in accordance with local regulations.
2. Slide the strings onto the string anchor shaft
Unwind the strings leaving the piece of paper bundling them. Once you have unwound the strings, remove the paper. Slide the rings on the tips of the strings onto the shaft to attach the strings in order of thickness.

3. Secure the string anchor shaft
Insert the string anchor shaft into the groove in the neck. Pass the bolt over the strings while holding the strings and string anchor shaft. Secure it with a bolt and nut.

4. Attach the strings
- Pass the strings through the holes on the tuning shafts to the front of the body.
- Along the protrusions, pass the strings through the groove at the top of the neck and pull. Then, wrap the strings clockwise one and a half times around the washer head screws that were temporarily inserted in step 1, and secure the strings with the washer head screws.

5. Attach the bridges
Attach the bridges and lay the strings in the grooves in the center of the bridges. Turn the pegs and adjust the string tension so that they are relatively tight (be careful not to overtighten the strings). If it is difficult to attach the bridge because the strings are too tight, loosen the strings slightly.

4. Assemble the electrical components

1. Attach the volume dial
Align the volume dial hole and place the volume dial onto the volume dial protrusion on the circuit board and fasten it to the circuit board with the screw (small).

2. Attach the speaker to the body cover
Secure the speaker with washer head screws.

3. Attach the jack
Remove the nut and washer attached to the jack. Then, pass the jack through the hole for the jack in the body cover and secure it with the nut and washer removed.

4. Connect the power connector
Plug in the power connector to the circuit board. (Plug it in firmly.)

5. Mount the circuit board
Adjust the position of the circuit board so that the volume dial and the power lamp protrude from the holes in the side of the body cover. Secure the circuit board with the screws (medium).

- Store the green and purple lead wires close to the speaker.
- Make sure that the black earth wire (c) as well as the red and black lead wires of the circuit board extend out from the top side of the circuit board.
- If it is difficult to turn the volume dial, the lead wires may be in contact with it. Properly store the lead wires again.

- Store the black lead wire of the jack in the space to the right of the jack as shown below (a) and the green and purple lead wires in the space between the jack and the speaker (b).

- If it is difficult to turn the volume dial, the lead wires may be in contact with it. Properly store the lead wires again.

- If the speaker becomes tilted if the screw is overtightened. Do not secure the speaker while it is tilted. If this happens, loosen the washer head screw half a turn.

- Make sure that the black earth wire (c) as well as the red and black lead wires of the circuit board extend out from the top side of the circuit board.

- It becomes easier to secure the speaker if the washer head screws have been passed through the screw holes on the rubber part of the speaker beforehand.
5 Assemble the pickup

1. Combine the top and bottom plates of the pickup
Press the top and bottom plates of the pickup together until they click into place.

2. Pass the coil wire through the hole in the pickup bottom plate
Pass the coil wire through the pickup bottom plate. At this point, pull about 5 cm of the coil wire through and affix it with cellophane tape.

3. Wind the coil wire
Wind the entire length of the coil wire around the pickup.

4. Bundle the coil and lead wires

5. Bundle the coil and lead wires
CAUTION: Do not cut off the silver parts on each of the coil wire. Doing so will cause current to stop flowing through the wire and the speaker to stop producing sound.

Bundle each end of the coil wire and lead wires by twisting them together. Fasten one end of both the coil and lead wires with cellophane tape, twist them together and then bundle them again with cellophane tape.

Either the red or black lead wire can be bundled.

6. Cover the coil wire and lead wires
Cover the coil wire and lead wires with rubber bands or a thinly cut piece of cellophane tape.

7. Insert the magnet into the pickup top plate
Insert the magnet into the top plate of the pickup and affix the provided sticker on top.

8. Install the pickup to the body
Insert the pickup in from the side, below the strings, and attach it to the body from behind using the washer head screws.

9. Connect the lead wires and earth wire
Connect the lead wires that have been passed through to the back to the connector for the lead wires on the circuit board. In addition, after slightly loosening the screw (a) on the back of the neck which fastens the second thinnest string, attach the earth wire on the circuit board to the screw (a) and re-tighten the screw (a).

10. Attach the neck cover
Attach the neck cover to the neck and secure it with washer head screws in three locations.

11. Mount the body cover onto the body
Mount the body cover onto the body and secure it with the screws (large).

12. Attach the strap ring
Attach the strap ring to the position shown below and secure it with the washer head screws.

CAUTION: Ensure that the lead wires of the pickup do not come off.

13. Mount the body cover onto the body
Mount the body cover onto the body and secure it with the screws (large).

After attaching the strap ring, observe the guitar from the side to make sure that the neck and body are attached together evenly. If the neck is not straight, loosen the two bolts, straighten the neck and retighten the bolts.

Rubber band
Cellophane tape
Sticker
Magnet

Bundle each end of the coil wire and lead wires by twisting them together. Fasten one end of both the coil and lead wires with cellophane tape, twist them together and then bundle them again with cellophane tape.

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11. Mount the body cover onto the body
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CAUTION: Ensure that the lead wires of the pickup do not come off.

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CAUTION: Ensure that the lead wires of the pickup do not come off.
Let's make some noise

1 Insert the batteries and turn the power on

Insert the batteries into the battery box and turn the volume dial to ON. The power lamp lights when the power is on. You can adjust the volume with the volume dial.

2 Let's tune

If you have a musical instrument nearby, tune the guitar using the scales of the instrument. Turn the pegs to adjust the tension of the strings until getting the desired pitch. When you turn the pegs, you are increasing the tension in the strings from loose to tense. The pitch will gradually increase while you are turning the pegs. Stop turning when you have reached the desired pitch. If you have tuned too high, turn the pegs to reduce the tension in the strings and start tuning again. Because the tension in a string changes during tuning, it may affect the other strings. Since the tuning of one string will affect that of the others and may change their pitch, once you have finished tuning all four strings, start again from the thickest string.

Q & A

Q: The coil wire has broken.
A: Join the two broken ends and continue winding. The coil wire has a transparent coating and this should be removed using sandpaper or the like. Following this, ensure that the strands are well wrapped around each other.

Q: The guitar does not produce any sound when turned on.
A: Confirm that the batteries are new and that they have been inserted in the correct direction.
A: Ensure that the pickup and battery connectors have been securely fastened in place.

Q: Increasing the volume has little effect.
A: Ensure that the speaker is facing the correct direction. (The transparent cone should be facing outward.)
A: Indentation of the transparent speaker cone can also cause the volume to stay low.

Q: The guitar cannot be tuned properly.
A: Check whether the bridge has become detached or is angled incorrectly.

How to change strings

Change a string if it has broken or become worn. Use strings for electric guitars. We recommend the string gauges to the right. To change the string, (1) turn the pegs so that there is no tension remaining in any of the strings. (2) Remove the strap ring, neck cover and body cover. (3) Remove the washer head screw on the back of the neck that is securing the string to be changed. (4) Remove the bolt securing the string anchor shaft. (5) Pull and lift up the string anchor shaft and remove the string from the shaft. (6) Pass the new string through the shaft and retighten the string.

Q: The coil wire has broken.
A: Join the two broken ends and continue winding. The coil wire has a transparent coating and this should be removed using sandpaper or the like. Following this, ensure that the strands are well wrapped around each other.

Q: The guitar does not produce any sound when turned on.
A: Confirm that the batteries are new and that they have been inserted in the correct direction.

Q: Increasing the volume has little effect.
A: Ensure that the speaker is facing the correct direction. (The transparent cone should be facing outward.)
A: Indentation of the transparent speaker cone can also cause the volume to stay low.

Q: Turning the tuning peg does not cause the pitch to rise.
A: The initial string tension may be insufficient. Remove the neck cover, loosen the washer head screw securing the string in question, increase the tension in the string, and then retighten the screw.
A: Note that excessive tightening of the tuning peg can damage the threads on the tuning shaft. If this has occurred, remove the string in question, move the peg lug to a position beyond the damaged threads, and then tighten the string.

Q: The guitar cannot be tuned properly.
A: Check whether the bridge has become detached or is angled incorrectly.