

# ZD3 KORG

## GUITAR SYNTHESIZER DRIVER

The ZD3 Guitar Synthesizer Driver (optional) is a compact amplification/interface device that attaches directly to the guitar body. It provides the necessary link between the pickups on the guitar and the Z3 Guitar Synthesizer. It also serves as a remote control device for adjusting the volume of the individual strings and the overall volume and for selecting Programs on the Z3.

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### BEFORE INSTALLING THE ZD3 GUITAR SYNTHESIZER DRIVER

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Before you install the ZD3 Guitar Synthesizer Driver to your guitar, make the following preparations:

- Have your guitar properly adjusted: make certain the neck is straight and the strings are at an appropriate height.
- Make certain that there is ample room to install the various components of the ZD3: check by placing the pickup and mounting bracket on the guitar body in their proper places. (Installation of the ZD3 on some types of guitars may not be possible.)

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### INSTALLING THE COMPONENTS OF THE ZD3

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The ZD3 consists of a Divided Pickup unit, a special mounting bracket and the Z3 Driver, which performs all amplification and interfacing functions and can be detached from the mounting bracket.

**NOTE:** The Divided Pickup unit and the mounting bracket may be affixed to the guitar by either setscrews or adhesive pads and tape. The use of the former is recommended since it is more secure. Adhesives have a tendency to weaken over time or through sudden shocks and may, on improperly painted guitars, take some of the finish off the guitar.

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### INCLUDED FASTENERS AND PARTS

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If you intend to install the ZD3 Guitar Synthesizer Driver with setscrews, you'll need a Phillips screwdriver, a measuring rule calibrated in millimeters and a pencil. A power drill is recommended for drilling holes for the mounting bracket screws, but a sharp, pointed tool, such as an ice pick, should suffice for making pilot holes. No other tools are required; all necessary fasteners and parts have been included with the ZD3.

Here is a list of the provided parts:

- 4 flat-head wood screws, 3 x 15 mm (for installing mounting bracket)
- 2 round-head wood screws, 3 x 20 mm (for installing Divided Pickup)
- 1 wood screw 3.5 x 25 mm (for installing end pin)
- 2 springs (for adjusting the height of the Divided Pickup)
- 1 strip of double-sided adhesive tape (for installing mounting bracket)
- 2 adhesive pads, 3-mm thickness (for installing Divided Pickup)
- 2 adhesive pads, 1-mm thickness (for installing Divided Pickup)
- 4 spacers, 0.5-mm thickness (for installing Divided Pickup)

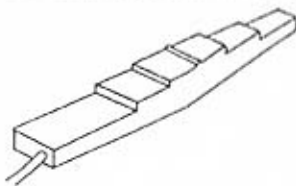
Let's take a look at the components of the ZD3 in more detail.

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## DIVIDED PICKUP UNIT

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The Divided Pickup unit can be easily installed on any existing 6-string guitar. It can be affixed to the guitar body with the provided screws and springs or, for those who prefer to keep their guitar's finish intact, with special double-sided adhesive pads.



**NOTE:** The Pickup is a sensitive device and should be handled with extreme care.

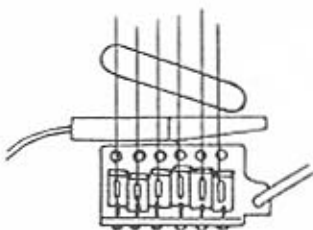
Do not subject it to undue sudden shocks or pull too strongly on the attached cord.

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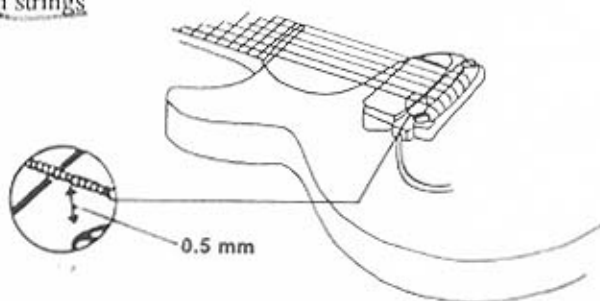
## POSITIONING OF THE PICKUP

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The Divided Pickup unit must be installed between the bridge of the guitar and the pickup nearest the bridge, as shown in the illustration below. Place the side of the Pickup with the attached cord nearest the 6th string and position the Pickup so that the center of the raised portion of the Pickup is exactly midway between the 3rd and 4th strings.



The height of the Pickup must be such that about 0.5 mm of space separates the top surface of the Pickup and the 1st and 6th strings when those strings are played at the highest fret. (See the illustration.)

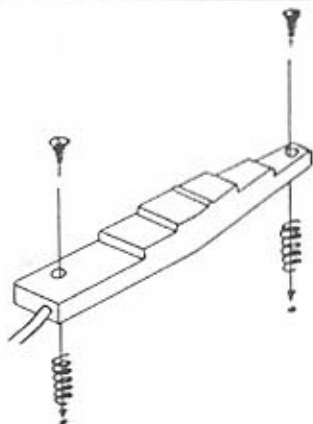


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## INSTALLING WITH SCREWS

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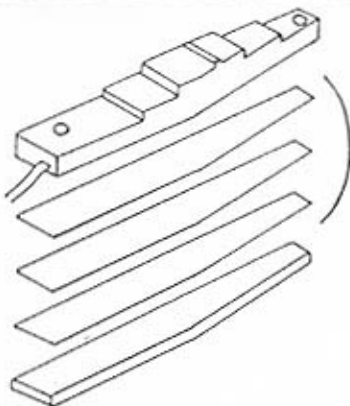
1. Take the strings off of the guitar to give yourself more working space and make installation easier.
2. Place the Divided Pickup in its proper position on the guitar for use as a guide, and mark the spots where the screws will go. Make pilot holes at these spots, just in front of the bridge. The pilot holes can be punched with an awl or ice pick, or even a small nail.
3. With the springs underneath the pickup, thread the screws through the holes of the pickup and the springs and tighten them onto the guitar body.



- Adjust the screws until the pickup is parallel with the body of the guitar and there is 0.5 to 1 mm of space between the surface of the pickup and the strings. (Refer also to the POSITIONING OF THE PICKUP section.)
- Replace and tighten the strings after installation.

### INSTALLING WITH ADHESIVE PADS

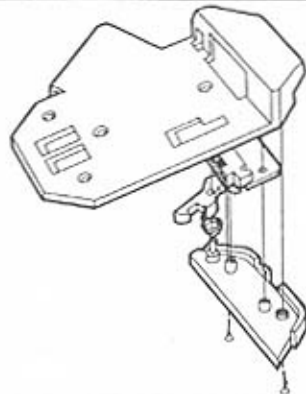
- Temporarily position the Pickup where it will be installed and mark the position on the guitar.
- Now place as many spacers underneath (do not remove the protective backing at this point) as necessary to bring the surface of the Pickup to within 0.5 to 1 mm of the strings. (Refer to the POSITIONING OF THE PICKUP section.)
- Set the pads and the Pickup aside and take the strings off of the guitar to give yourself more working space and make installation easier.
- Peel off the protective backings, affix the correct amount of pads for height in the proper position just in front of the bridge, and finally, place the Pickup on the pads.
- Replace and tighten the strings after installation.



### MOUNTING BRACKET

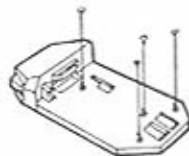
Two types of mounting brackets are provided with the ZD3 Guitar Synthesizer Driver: an L-shaped type and a flat type. The cord of the Divided Pickup has been attached (with its special plate) to the L-shaped mounting bracket before the unit was shipped from the factory. If you wish to use the flat mounting bracket instead, follow this procedure:

- Remove the screws from the bottom of the mounting bracket.
- Carefully remove the cord plate, the stopper and the spring installed inside of the mounting bracket, along with the bottom cover.
- Re-install all parts to the flat mounting bracket in the reverse order of the instructions.



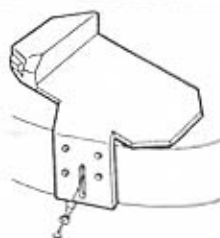
### INSTALLING THE FLAT MOUNTING BRACKET

- Position the mounting bracket where it will be installed and mark the position on the guitar. Make certain that placement of the bracket is at the optimum position for playing and will not interfere with connection of any cords.
- With the mounting bracket in place, drill holes of 2 mm in diameter in the guitar using the holes of the mounting bracket as a guide.
- Insert and tighten the screws.



### INSTALLING THE L-SHAPED MOUNTING BRACKET

- Remove the end pin from the guitar. (Remove the felt as well.)
- Position the mounting bracket so that the end hole and the slot on the L-shaped bracket are aligned.
- Using the provided screw, fasten the end pin back onto the guitar through the slot on the bracket.



4. Drill two holes in the guitar through the holes in the bracket, as indicated in the illustration:



5. Fasten the mounting bracket firmly to the guitar with the provided screws.

Though it is not necessary, you can further secure the bracket by fastening the other two screws, as you did for the two screws in steps 4 and 5.

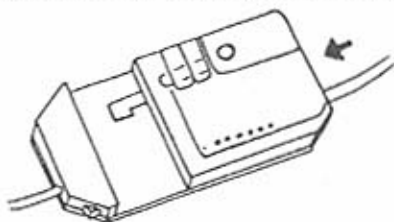


## ZD3 DRIVER

The ZD3 Driver is the control center for the Z3 Guitar Synthesizer system. The individual gain levels of the strings are set here, and the overall volume of the guitar/synthesizer sound as well as Program changes can be made from the ZD3 Driver.

To ready the ZD3 Driver for play with the Z3:

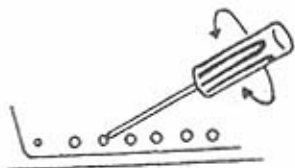
1. Slide the ZD3 Driver securely into the mounting bracket, as shown.



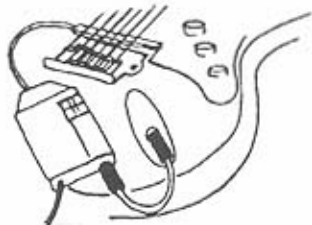
2. Plug the 24-pin connector on the cable extending from the ZD3 Driver into the GUITAR INPUT terminal on the front panel of the Z3.

For normal operation, keep the connector plugged into the Z3. Simply detach the ZD3 Driver from the mounting bracket when temporarily not in use. When moving the Z3 or not playing it for extended periods, unplug the 24-pin connector from the Z3 and detach the ZD3 Driver from the mounting bracket and store it in a safe place.

3. Turn on the power of the Z3 Guitar Synthesizer.
4. Starting with the lowest string on the guitar (string #1), adjust the gain level. Use a small screwdriver for this purpose; either slotted or Phillips are fine. Turning the gain control in a clockwise direction increases the level.



5. Using a pick, play the string with maximum strength (the maximum strength at which you expect to play). At the same time, adjust the gain adjust control #1 until the PEAK LED lights. At the optimum level setting, the LED should light only when you pick the string and should fade out shortly after.
6. Do the same for the other strings of the guitar until all levels are set. Once set, the levels should rarely have to be adjusted again.
7. Using a short cord (for the sake of convenience), connect the output jack of the guitar to the GUITAR IN jack of the ZD3 Driver.



Now, go on to the SETTING UP AND PLAYING chapter in the Z3 manual for instructions on how to get started playing your Z3.

### NOTICE

Korg products are manufactured under strict specifications and voltages required by each country. These products are warranted by the Korg distributor only in each country. Any Korg product not sold with a warranty card or carrying a serial number disqualifies the product sold from the manufacturer's/distributor's warranty and liability. This requirement is for your own protection.

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