

ProtoWizard Software

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| Run | | ? |
|-------|---|-----------------|
| | Type the name of a program, folder, documen Internet resource, and Windows will open it fo | t, or r you. |
| Open: | D:\PWSETUP.EXE | |
| | | |

Before inserting the ProtoWizard CD, close all programs. Insert the ProtoWizard CD in your computer, wait for the set up menu to appear. If the set up menu does not appear, install ProtoWizard manually by selecting the windows START button and then RUN. Press the BROWSE button and select the PWSETUP.EXE from the CD. Press OK to run the installation and follow the instructions.

| 2 | | | | |
|---|---|--|--|--|
| | Register Software | | | |
| | You have 4 days left on your ProtoWizard demo. | | | |
| | Product ID Number: 4390 | | | |
| | Registration Number: Apply | | | |
| | NOTE: Record the Product ID Number above and call your ProtoWizard distributor to get your Registration Number. | | | |
| | OK Cancel | | | |
| 3 | | | | |
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Cancel

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Number.

To register ProtoWizard, you must first obtain a registration number from your dealer. You must provide the dealer with the Product ID Number as shown in ProtoWizard's startup screen. You may also get this fromCEAT directly by emailing your Product ID Number and proof of purchase to support@protowizard.com.

Using the Product ID Number, the dealer will obtain a Registration Number on your behalf. You may continue using ProtoWizard for 10 days before you MUST put in the correct Registration Number. Enter the Registration Number and press Apply, then OK to continue. You will not see this screen again provided the Registration Number is correct. If you have any problems, please call your dealer. If you dealer cannot assist you, contact support@protowizard.com.



ProtoWizard Hardware



Using the three screws provided, carefully install the Rotary Adapter into the rotary table face. This should be a snug fit. Caution should be taken to not have this crooked. Gently rotating the adapter in the counter bore of the rotary table will help. Insert all three screw finger tight

before tightening with the provided allen wrench.

Carefully insert the 3-Sided Flip Fixture into the Rotary adapter making sure the holes align in the center of the 2 parts.





Next insert the shoulder bolt provided into the top hole of the adapter and though the hole in the flip fixture. Then thread the bolt into the bottom of the adapter.



ProtoWizard Hardware

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Finally, tighten the bolt with the allen wrench provided. CAUTION: Do not over tighten the bolt. A gentle "snug turn" is all that is required.



Roughly Align A-Origin

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| 1 | Image: second | The object of this procedure is to set the fixture horizontally. If the fixture is set horizontally, then indicating Z on either edge should yield the same Z number. Therefore, what we will do is touch both edges of the fixture and then rotate the A axis a little until the Z values are the same on both sides. |
|---|---|--|
| 2 | Image: Set the image | At this time, it is not totally necessary to perfectly align the rotary table. We mostly want to simply set the A Origin so the ProtoWizard Flip Fixtures in n the horizontal position. This can be achieved by simply visually setting the A Origin horizontally. Set the A Origin as shown. |



Roughly Align X-Origin





Running the Test Program

2



Insert the 1/8" Flat End Mill into the spindle. Always leave approximately 20mm of the tool exposed.

Insert a 10mm wax blank. Use both a thick and thin spacer on both sides to center the blank.



With the machine out of View mode (the View light should be off), start the Z Origin detection



Running the Test Program



NOTE:

This program is used to setup the 8mm Core file. Therefore, you should be able to measure the thickness of this part after it has been removed from the wax blank. The thickness should be 8mm +/-0.05. If you are not in this range, the Z Origin calibration has not been set properly. Contact Roland immediately and do not proceed until this problem has been corrected.



Align X and A Origins



Remove the ProtoWizard Flip Fixture and install the ProtoWizard Ring Arbor.

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Place the triangle cutout of the test part on the Ring Arbor's triangular nose and secure it with the washer and screw provided. Lightly tighten the screw with the hex wrench provided.



With the Y and A axis at 0.000, jog the X axis directly over the 1/8" square head on the sample part.



Align X and A Origins

X -56.04 mm

Z 40.46 mm

milimeter 💌

A 0.00 deg

C Set the X Origin

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0.00 mm

0 × rpm

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Set the Z-axis origin using the sensor

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To XY Origin

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Close

Fast

Stop

Move

Jog the A axis to rotate the part to align the 1/8" square under the 1/8" tool.

With both the X and the A axis perfectly aligning the 1/8" tool over the 1/8" square, set the origins of both X and A as shown.



While holding down the ALT key on your keyboard, press the CLOSE button on the Panel.

A new window will popup on the screen.



| Roland 3WX-10 Panel B USB ID Length Origin 0 Work Senser 001 × 0 × × 0 × 10 × × 0 | This hidden panel contains all of the offsets stored on the machine's internal memory. The Column labeled "Origin4" contains our "X" origin number. Write this number down or printout this screen for safe keeping. This "X" origin is for the Ring Arbor when using a 8mm core. |
|---|---|
| Roland JWX-10 Panel P USB ID Length Origin3 Origin3 Origin3 20 Senser Spindle Y O Y | Note the "A" origin as well so you can return to it at a later time if needed. Now you are ready to make a full 3 sided ring. |

NOTE:

Align X and A Origins

If you remove the ProtoWizard Rotary Adapter for any reason, the alignment procedure should be redone from the start to insure proper alignment as the Rotary Adapter may have shifted from its original position.

Also, this alignment MUST be used only with 8mm core files. Although ProtoWizard supplies other core file sizes, the 8mm core is the most versatile and can be used for all ring applications. Should you switch to another core thickness, for example 10mm, an adjustment in the X origin will be required.