EGX-350 Hardware Setup Guide

EGX Series Hardware Setup Guide

❖ This guide covers the basic setup for the Roland EGX-350 desktop engraver.

❖ The setup covers Nosecone, Non-Nosecone and Scribing setup as well as setup for Rhinestone template creation.

❖ For additional details and information on a particular configuration always refer to the Users Manual for your engraver.
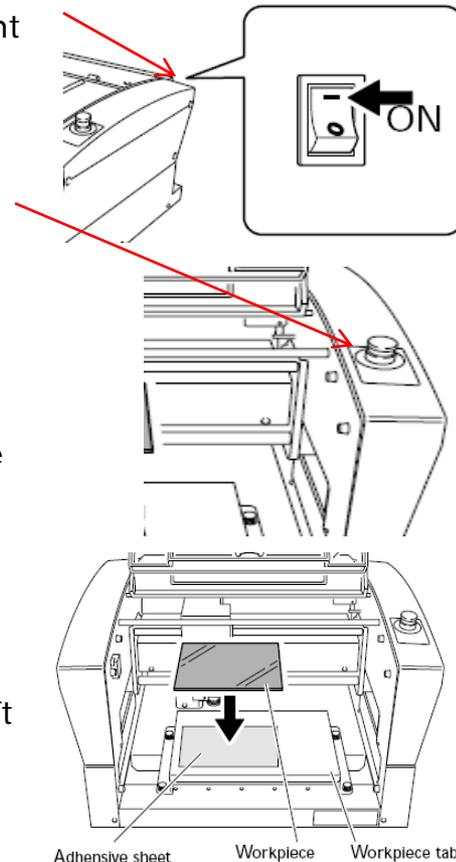
NOTES:

EGX-350 Hardware Configuration for Nosecone Engraving

EGX-350 Setup for Nosecone Engraving

- ❖ Power the units primary power switch on the right rear of the unit.

- ❖ Turn the Emergency (secondary power) switch clockwise to power the unit on.

- ❖ The Handy Panel will power on and display the model and boot version. Once completed the display will read "HIT ENTER".

- ❖ At this point press the ENTER key to initialize the unit.

- ❖ Once the initialization is completed, the carriage will be located to the View position (Left rear).

- ❖ Place the adhesive sheet (AS-10) in the lower left corner of the table and place the material in the corner as well.
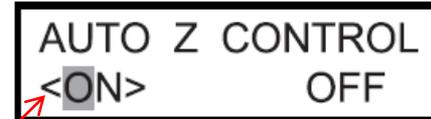
NOTES:

ON

Adhesive sheet   Workpiece   Workpiece table

EGX-350 Setup for Nosecone Engraving

❖ On the Handy Panel press the MENU key multiple times until you see the I/O, OTHERS, ADJUSTMENT menu.

```
I/O        OTHERS
ADJUSTMENT
```

❖ Using the arrow keys on the Handy Panel move the cursor to OTHERS and press the ENTER key to enter the sub-menu.

❖ Press the MENU key multiple times until you see AUTO Z CONTROL.

```
AUTO Z CONTROL
<ON>           OFF
```

❖ Using the arrow keys on the Handy Panel move the cursor to ON and press the ENTER key to set the value (shown with brackets).

❖ The display will display SET lock lever to 1 or 2 for a few seconds and return the AUTO Z CONTROL screen.

```
SET lock lever
to 1 or 2
```

EGX-350 Setup for Nosecone Engraving

- ❖ On the EGX-350 set the lock lever to either 1 or 2 by pressing the lever in and then down. This will allow the Z Axis to "float up and down".

- ❖ Using the arrow keys on the control panel move the carriage so that the spindle unit is over the lower left corner of the material.

- ❖ Once the spindle is over the lower left corner of the material, press the XY ORIGIN SET button and press the ENTER key to set that as your origin point.

- ❖ Remove the cutter tool from the cutter knob (brass knob) and install the cutter knob on the top of the spindle assembly.

Lock lever
Press down to lower slightly.

Wrench

Cutter holder

Spindle unit

EGX-350 Setup for Nosecone Engraving

❖ Install the collet to the bottom of the spindle assembly and tighten it with the supplied spanner wrenches.

❖ Install the Nosecone assembly on the spindle assembly all the way up until it stops and then back off 2-3 full turns. This will allow you to set the depth for engraving.

❖ Using the arrow keys move the nosecone over a flat area of the material.

❖ Using the Z- key lower the nosecone all the way down until the machine stops. The display will show and asterisks next to Z AUTO.
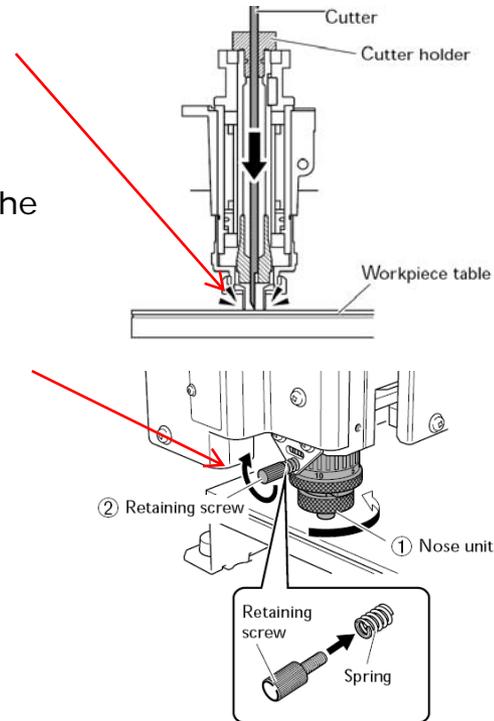
NOTES:

① Wrench
Spindle unit
Solid collet

② Wrench
Wrench

Nose unit
Loose
Tighten
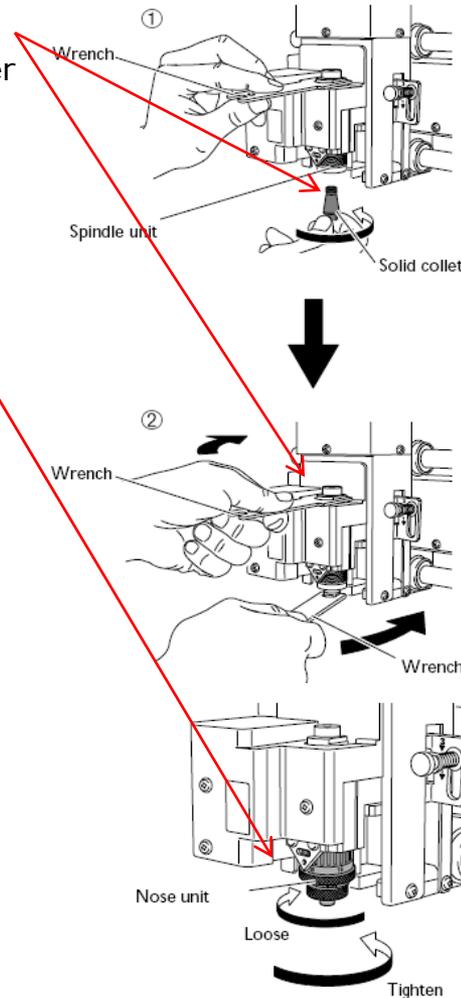
EGX-350 Setup for Nosecone Engraving

❖ Insert the cutter gently until it touches the surface of the material and tighten it in place using the supplied hex wrench.

❖ Raise the Z Axis by using the Z+ key to clear the material.

❖ Loosen the retaining screw and rotate the nosecone counter clockwise to set the desired depth. Each tick mark is equal to 0.001" (0.0245mm). One full turn is equal to 0.025" (0.635mm).

❖ Secure the nosecone with the retaining screw.

❖ Your machine is now ready for nosecone engraving.

Cutter
Cutter holder
Workpiece table

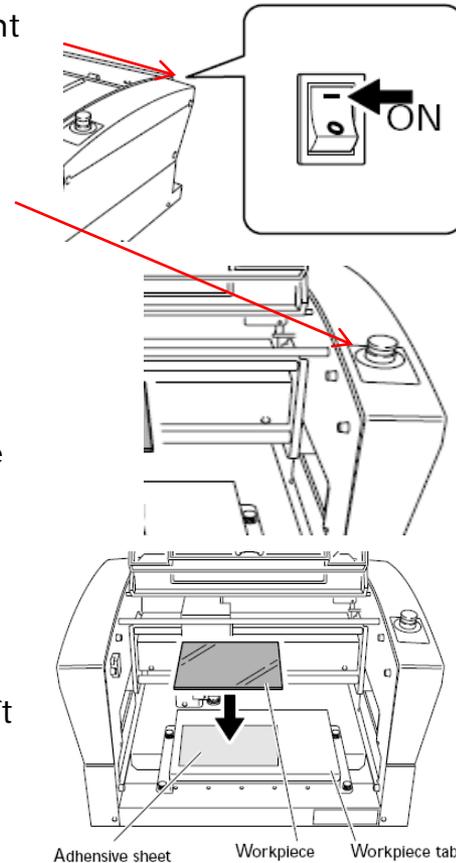② Retaining screw
① Nose unit

Retaining screw
Spring

NOTES:

EGX-350 Hardware Configuration for Non-Nosecone Engraving

EGX-350 Setup for Non-Nosecone Engraving

❖ Power the units primary power switch on the right rear of the unit.

❖ Turn the Emergency (secondary power) switch clockwise to power the unit on.

❖ The Handy Panel will power on and display the model and boot version. Once completed the display will read "HIT ENTER".

❖ At this point press the ENTER key to initialize the unit.

❖ Once the initialization is completed, the carriage will be located to the View position (Left rear).

❖ Place the adhesive sheet (AS-10) in the lower left corner of the table and place the material in the corner as well.

ON

Adhensive sheet   Workpiece   Workpiece table
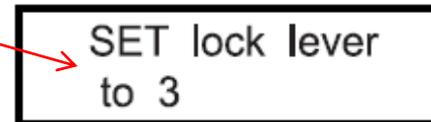
EGX-350 Setup for Non-Nosecone Engraving

❖ On the Handy Panel press the MENU key multiple times until you see the I/O, OTHERS, ADJUSTMENT menu.

I/O   OTHERS
ADJUSTMENT

❖ Using the arrow keys on the Handy Panel move the cursor to OTHERS and press the ENTER key to enter the sub-menu.

❖ Press the MENU key multiple times until you see AUTO Z CONTROL.

AUTO Z CONTROL
ON   <OFF>

❖ Using the arrow keys on the Handy Panel move the cursor to OFF and press the ENTER key to set the value (shown with brackets).

❖ The display will display SET lock lever to 3 for a few seconds and return the AUTO Z CONTROL screen.

SET lock lever
to 3

NOTES:

EGX-350 Setup for Non-Nosecone Engraving

- ❖ On the EGX-350 set the lock lever to 3 by pressing the lever in and then down. This will lock the Z Axis position.

- ❖ Using the arrow keys on the control panel move the carriage so that the spindle unit is over the lower left corner of the material.

- ❖ Once the spindle is over the lower left corner of the material, press the XY ORIGIN SET button and press the ENTER key to set that as your origin point.

- ❖ Remove the cutter tool from the cutter knob (brass knob) and install the cutter knob on the top of the spindle assembly.
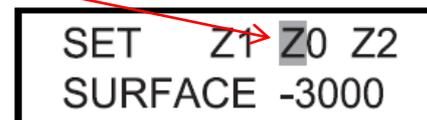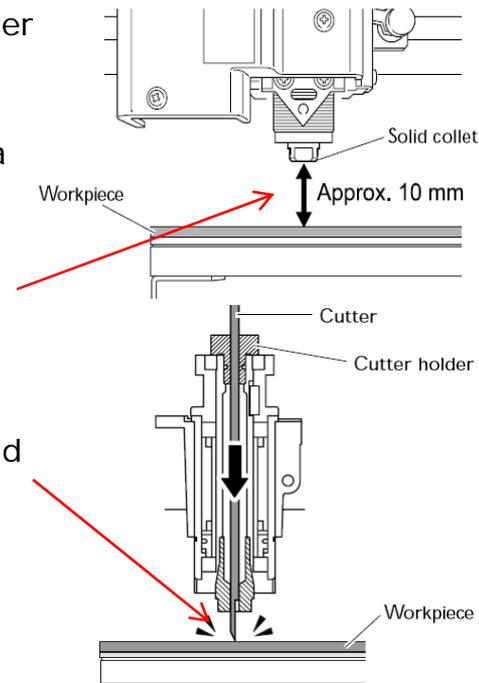
Lock lever
Lift up.

Wrench

Cutter holder

Spindle unit

NOTES:

EGX-350 Setup for Non-Nosecone Engraving

- ❖ Install the collet to the bottom of the spindle assembly and tighten it with the supplied spanner wrenches.

- ❖ Using the arrow keys move the nosecone over a flat area of the material.

- ❖ Using the Z- key lower the nosecone until the bottom of the collet is approx 10mm above the material.

- ❖ Insert the cutter until it touches the material and lock in place with the supplied hex wrench.

- ❖ Press the Z ORIGIN SET key to bring up the Z settings on the display.

- ❖ Using the arrow keys move the cursor over Z0 and press the ENTER key to set this position as the surface.

NOTES:

Solid collet
Workpiece
Approx. 10 mm
Cutter
Cutter holder
Workpiece

```
SET    Z1 Z0 Z2
SURFACE -3000
```

EGX-350 Setup for Non-Nosecone Engraving

❖ Press the Z+ key to raise the tool off the surface approximately 1/8″.

❖ Press the arrow key to move the cursor to Z2 and press the ENTER key to set this value as the clearance gap.

❖ NEVER set Z1 on the machine. Z1 is the amount of depth you want to cut and is controlled via the software.

❖ Your machine is now ready for non-nosecone engraving.
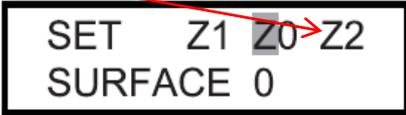
```
SET    Z1 Z0 Z2
SURFACE 0
```

EGX-350 Hardware Configuration for Scribing

EGX-350 Setup for Scribing

❖ Power the units primary power switch on the right rear of the unit.

❖ Turn the Emergency (secondary power) switch clockwise to power the unit on.

❖ The Handy Panel will power on and display the model and boot version. Once completed the display will read "HIT ENTER".

❖ At this point press the ENTER key to initialize the unit.

❖ Once the initialization is completed, the carriage will be located to the View position (Left rear).

❖ Place the adhesive sheet (AS-10) in the lower left corner of the table and place the material in the corner as well.

ON

Adhesive sheet   Workpiece   Workpiece table
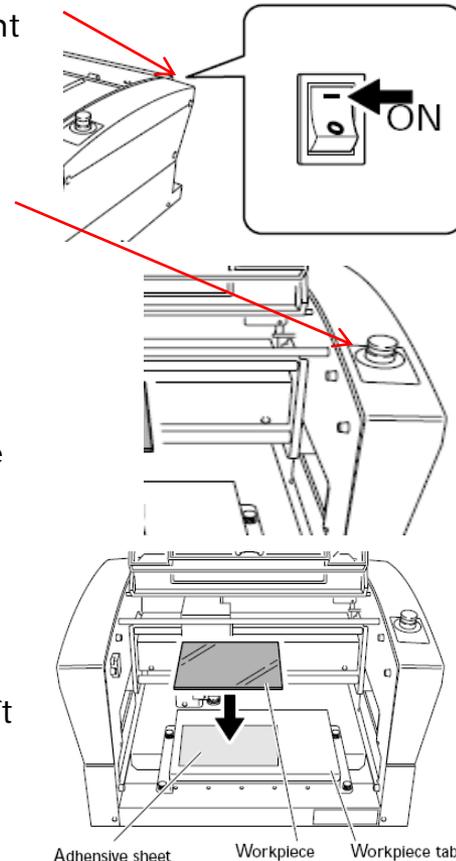
NOTES:

EGX-350 Setup for Scribing

- ❖ On the Handy Panel press the MENU key multiple times until you see the I/O, OTHERS, ADJUSTMENT menu.

```
I/O        OTHERS
ADJUSTMENT
```

- ❖ Using the arrow keys on the Handy Panel move the cursor to OTHERS and press the ENTER key to enter the sub-menu.

- ❖ The first item in the sub-menu is REVOLUTION.

```
REVOLUTION
ON          <OFF>
```

- ❖ Using the arrow keys on the Handy Panel move the cursor to OFF and press the ENTER key to set the value (shown with brackets).

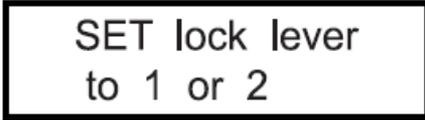- ❖ The spindle is now turned off for scribing/diamond drag engraving.

NOTES:

EGX-350 Setup for Scribing

❖ Press the MENU key multiple times until you see AUTO Z CONTROL.

```
AUTO Z CONTROL
<ON>        OFF
```

❖ Using the arrow keys on the Handy Panel move the cursor to ON and press the ENTER key to set the value (shown with brackets).

❖ The display will display SET lock lever to 1 or 2 for a few seconds and return the AUTO Z CONTROL screen.
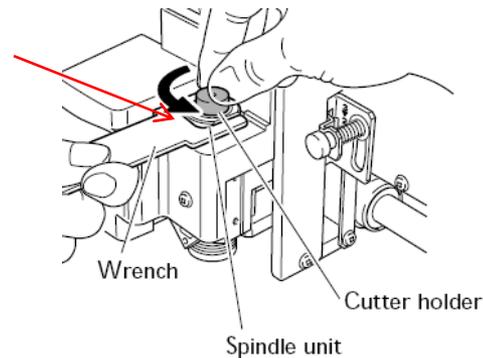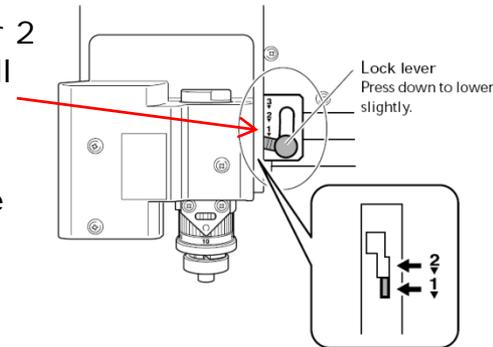
```
SET lock lever
to 1 or 2
```

NOTES:

EGX-350 Setup for Scribing

❖ On the EGX-350 set the lock lever to either 1 or 2 by pressing the lever in and then down. This will allow the Z Axis to "float up and down".

❖ Using the arrow keys on the control panel move the carriage so that the spindle unit is over the lower left corner of the material.

❖ Once the spindle is over the lower left corner of the material, press the XY ORIGIN SET button and press the ENTER key to set that as your origin point.

❖ Remove the cutter tool from the cutter knob (brass knob) and install the cutter knob on the top of the spindle assembly.
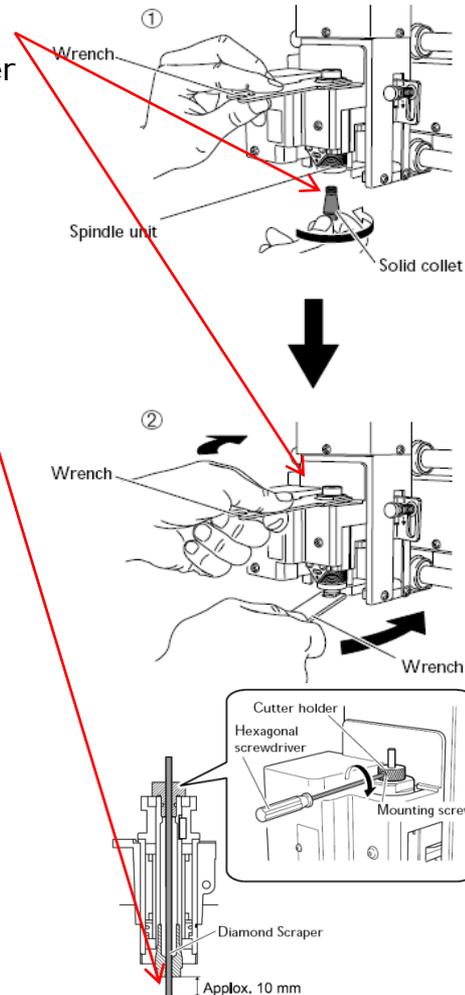

Lock lever
Press down to lower slightly.

Wrench

Cutter holder

Spindle unit

NOTES:

EGX-350 Setup for Scribing

- ❖ Install the collet to the bottom of the spindle assembly and tighten it with the supplied spanner wrenches.

- ❖ Insert the diamond scraper tool into the cutter holder and have the tool protrude from the bottom of the collet by at least 10mm.

- ❖ Tighten the tool in place with the supplied hex wrench.

- ❖ Your machine is now ready to diamond scribe.

NOTES:

① Wrench

Spindle unit

Solid collet

② Wrench

Wrench

Cutter holder

Hexagonal screwdriver

Mounting screw

Diamond Scraper

Applox. 10 mm

EGX-350 Hardware Configuration for Rhinestone Template Creation

(when using R-WearStudio)

EGX-350 Setup for Rhinestone Template Creation

❖ Power the units primary power switch on the right rear of the unit.

❖ Turn the Emergency (secondary power) switch clockwise to power the unit on.

❖ The Handy Panel will power on and display the model and boot version. Once completed the display will read "HIT ENTER".

❖ At this point press the ENTER key to initialize the unit.

❖ Once the initialization is completed, the carriage will be located to the View position (Left rear).

❖ Place the adhesive sheet (AS-10) in the lower left corner of the table and place the material in the corner as well.

ON

Adhesive sheet   Workpiece   Workpiece table
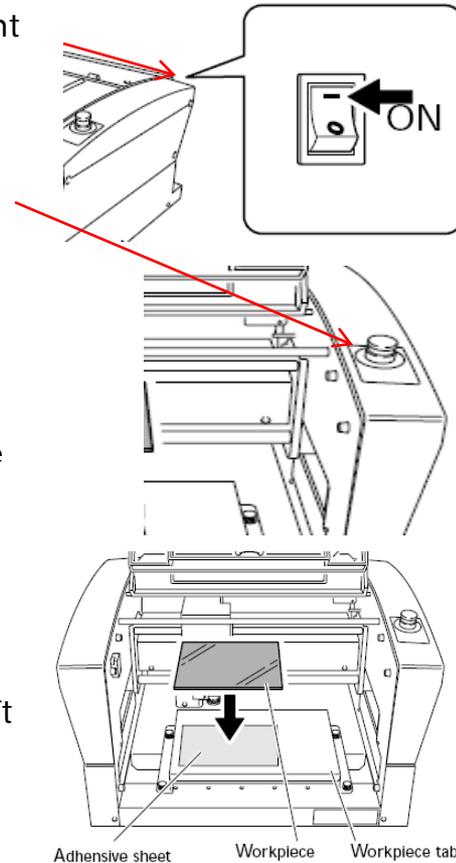
NOTES:

EGX-350 Setup for Rhinestone Template Creation

❖ On the Handy Panel press the MENU key multiple times until you see the I/O, OTHERS, ADJUSTMENT menu.

```
I/O        OTHERS
ADJUSTMENT
```

❖ Using the arrow keys on the Handy Panel move the cursor to OTHERS and press the ENTER key to enter the sub-menu.

❖ Press the MENU key multiple times until you see AUTO Z CONTROL.

```
AUTO Z CONTROL
ON        <OFF>
```

❖ Using the arrow keys on the Handy Panel move the cursor to OFF and press the ENTER key to set the value (shown with brackets).

❖ The display will display SET lock lever to 3 for a few seconds and return the AUTO Z CONTROL screen.

```
SET lock lever
to 3
```

EGX-350 Setup for Rhinestone Template Creation

- ❖ On the EGX-350 set the lock lever to 3 by pressing the lever in and then down. This will lock the Z Axis position.

- ❖ Measure and mark the center of the material.

- ❖ Using the arrow keys on the control panel move the carriage so that the spindle unit is over the center of the material.

- ❖ Once the spindle is over the lower left corner of the material, press the XY ORIGIN SET button and press the ENTER key to set that as your origin point.

- ❖ Remove the cutter tool from the cutter knob (brass knob) and install the cutter knob on the top of the spindle assembly.
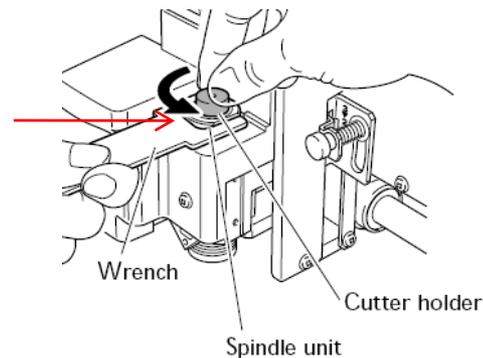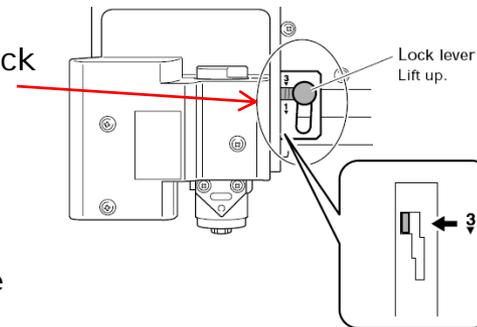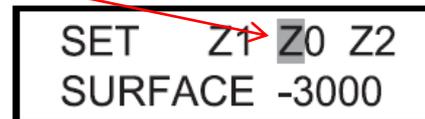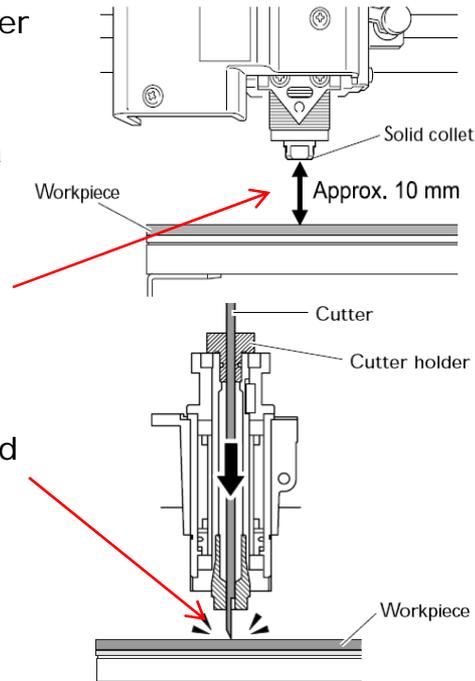
NOTES:

EGX-350 Setup for Rhinestone Template Creation

- ❖ Install the collet to the bottom of the spindle assembly and tighten it with the supplied spanner wrenches.

- ❖ Using the arrow keys move the nosecone over a flat area of the material.

- ❖ Using the Z- key lower the nosecone until the bottom of the collet is approx 10mm above the material.

- ❖ Insert the cutter until it touches the material and lock in place with the supplied hex wrench.

- ❖ Press the Z ORIGIN SET key to bring up the Z settings on the display.

- ❖ Using the arrow keys move the cursor over Z0 and press the ENTER key to set this position as the surface (noted by brackets).

Solid collet

Workpiece

Approx. 10 mm

Cutter

Cutter holder

Workpiece

SET   Z1 Z0 Z2
SURFACE -3000

EGX-350 Setup for Rhinestone Template Creation

❖ Press the Z+ key to raise the tool off the surface approximately 1/8″.

❖ Press the arrow key to move the cursor to Z2 and press the ENTER key to set this value as the clearance gap (noted by brackets).

❖ NEVER set Z1 on the machine. Z1 is the amount of depth you want to cut and is controlled via the software.

❖ Your machine is now ready for rhinestone template creation via R-WearStudio.

❖ Design your template in R-WearStudio.

❖ When you select Engrave, ensure that the Engrave Position is set for Center.