



Quick Start Guide

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TURNING MACHINE ON/OFF

Cable Connection & Powering Machine ON

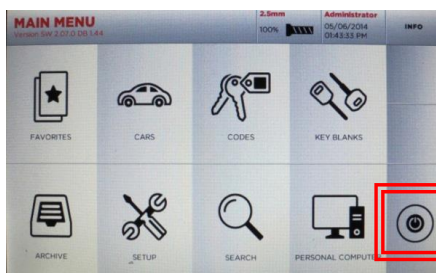
***MOBILE USERS: YOU MUST USE A PURE SINE WAVE INVERTER WITH 1100 WATTS (or greater) TO POWER THE MACHINE OR MACHINE MOTOR WILL NOT WORK PROPERLY**

NOTE: Do not install the jaw(s) until instructed on page 5 of this guide

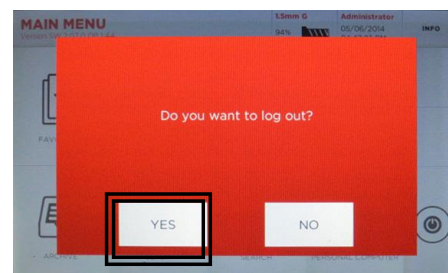
1. Attach the 9-pin connector cable to the port on the **LEFT SIDE** of the console **AND** to the back of the machine. **SECURE WITH ATTACHED SCREWS.** Also, connect the black cable to the console and the back of the machine.
2. Attach power cord to back of machine and plug into a properly grounded outlet.
3. Make sure the ON/OFF switch above the power cord is to the ON position.
4. Rotate the Emergency Stop button towards the back of the machine until it releases outward.

The machine will now begin to start-up. **This process may take up to 4 minutes.** Proceed with LOGIN on page 4.

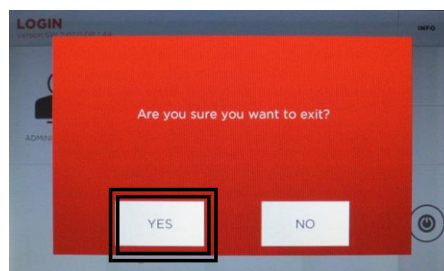
Powering Down the Machine



At the **MAIN MENU**, select the power button.



Select **YES** to log out, and then select the power button again at log in screen

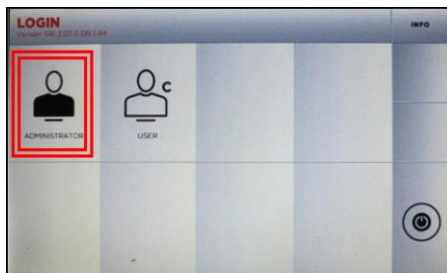


Select **YES** to exit

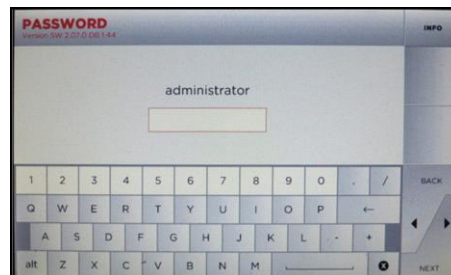


LOGIN/PASSWORD

TIP: Use included stylus with touch screen to ensure accurate selections

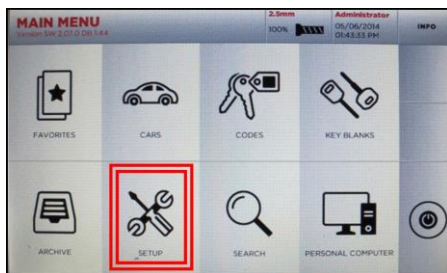


Select **ADMINISTRATOR**



Leave password field blank and select **NEXT**

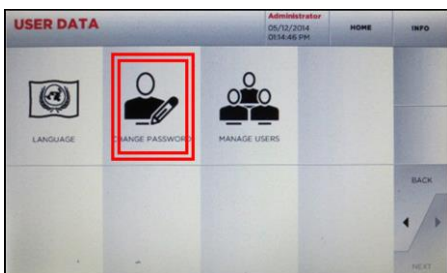
Password creation is optional. Skip this step if you do not wish to use a password



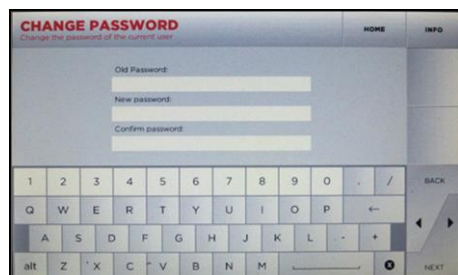
Select **SETUP**



Select **USERS**



Select **CHANGE PASSWORD**



Leave the "old password" field blank. Enter your new password and confirm password. Then select **NEXT**



JAW SET UP

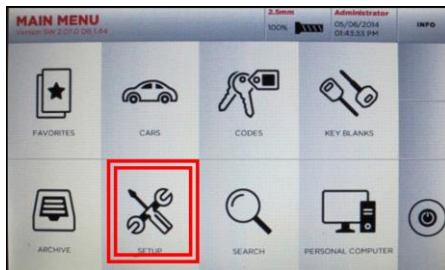
- Before using the machine, please **SETUP ALL THE JAWS** using the jaw setup template (silver template with the key ring on one end) found in the black accessory case.
- Follow the directions on page 6 of this guide for high security and page 9 for edge-cut.
- This adjustment is necessary due to fluctuations and changes that may have occurred during shipping.
- Failure to follow this procedure correctly may cause damage to the tracer, cutter, and/or jaw and may result in voiding the machine warranty.
- If you have any questions on these procedures, please contact Program Support: Monday-Friday between 8:30 am and 5:30 pm EST at: 1-866-438-6767 x128367

CUTTER LIFE & KEY MATERIAL

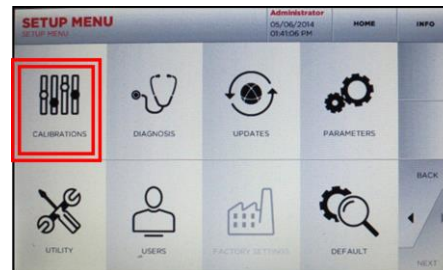
- Cutting steel keys is not recommended with the BD Laser Max™. Cutter life will be drastically reduced and/or cutter damage may occur. In addition, the BD Laser Max™ cannot cut or decode plastic or aluminum keys.



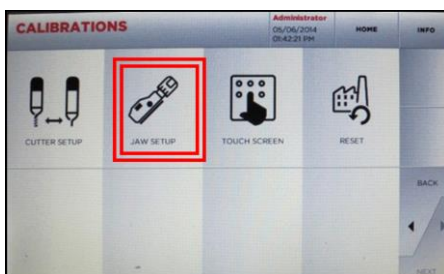
JAW SET UP – HIGH SECURITY



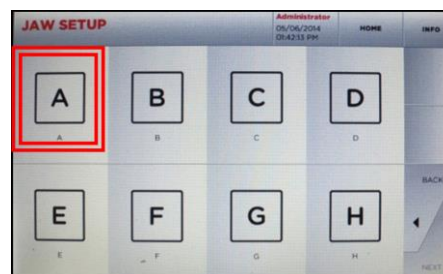
Select **SETUP**



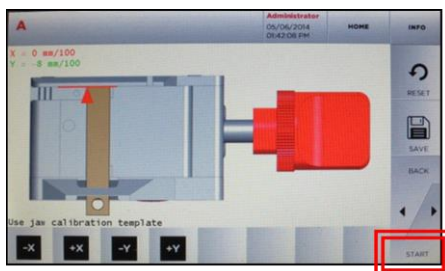
Select **CALIBRATIONS**



Select **JAW SETUP**



Select desired jaw – **A, B, C, D**



Select **JAW SETUP**

1. Install jaw to the far left of carriage until it stops. **CLAMP TIGHT WITH JAW LEVER.**
2. Insert jaw calibration template (metal bar with key ring in accessory kit). Hold blank **FLAT** in jaw & press in and down while tightening. Press **START** and then **OK** to begin calibration.

CALIBRATION COMPLETE screen will display.

Select **OK**. Note values for X & Y. – Record setup numbers then do a second Jaw Setup.

Select **START** to begin. Compare the setup numbers to first set. If the values are within +/- 2 of original numbers the jaw setup is complete*.

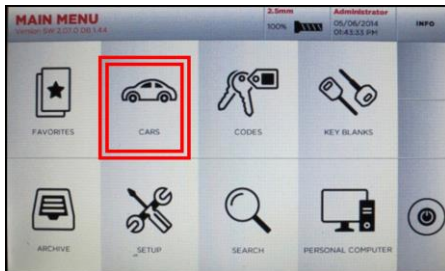
Select **SAVE**, and then select **YES** to confirm. Remove silver template.

*If the values are not within range run third jaw setup and compare 2nd & 3rd setup numbers.

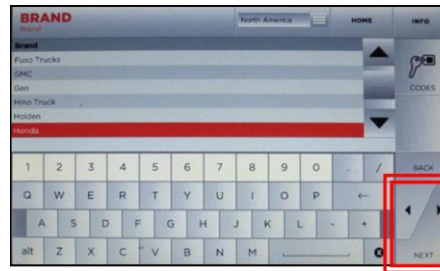


CUT BY CODE – HIGH SECURITY

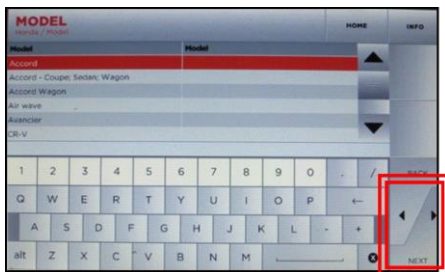
TIP: Before key cutting, make sure you have the correct key blank on hand. It is recommended to cut a test key to verify jaw is calibrated correctly.



Select **CARS**



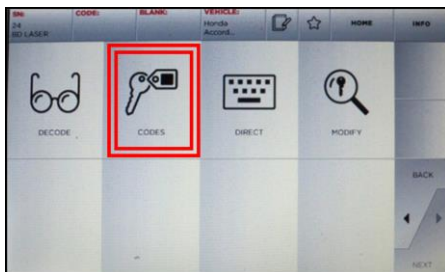
Select **BRAND (MAKE)**, then select **NEXT**



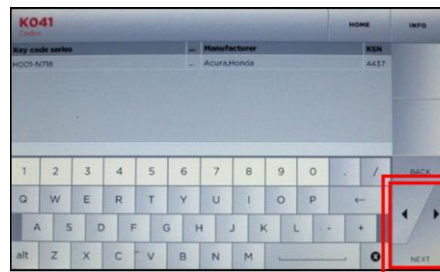
Select **MODEL**, then select **NEXT**



Select **YEAR RANGE**, then select **NEXT**



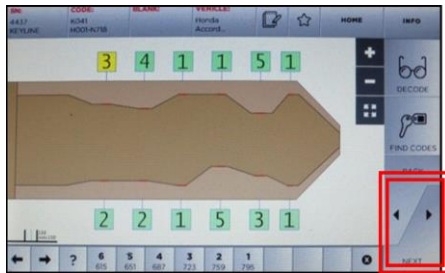
Select **CODES**, then select **NEXT**



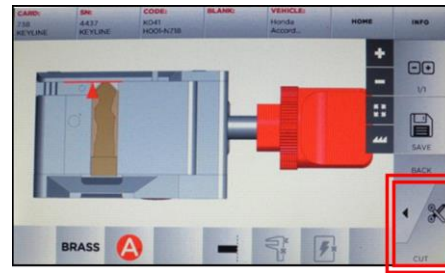
Enter the key code and select **NEXT**



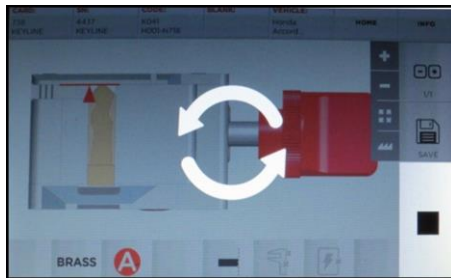
CUT BY CODE – HIGH SECURITY



Key depths appear select **NEXT**



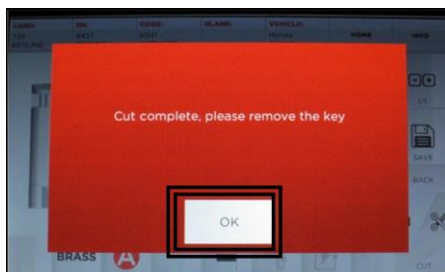
Insert key correctly on the jaw.
Pay close attention to the stop position for the blade of the key. Select **CUT**



Key cutting in progress



Rotate the key for second side of cutting. Select **OK**

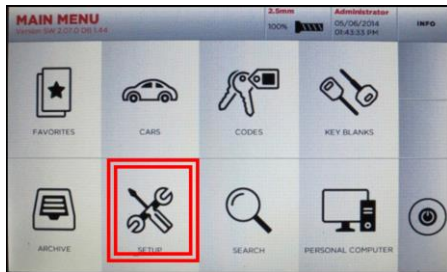


Key cutting is complete. Select **OK**

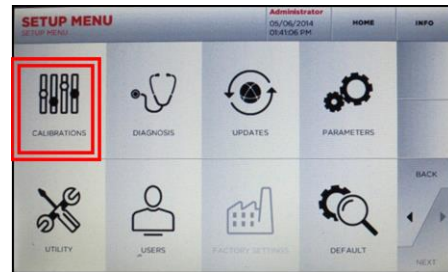
Select the **HOME** button at the top of the display to return to the **MAIN MENU**, or select **CUT** again to make additional keys.



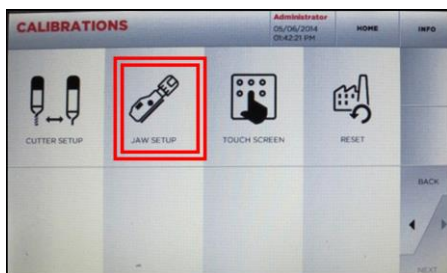
JAW SET UP – EDGE CUT



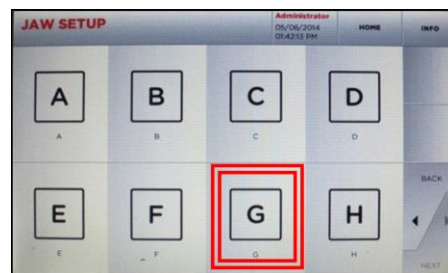
Select **SETUP**



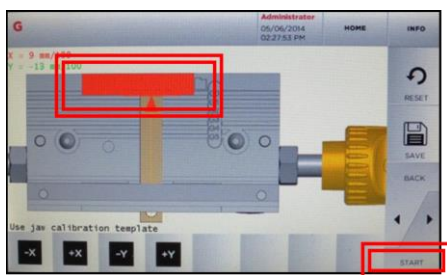
Select **CALIBRATIONS**



Select **JAW SETP**



Select **G jaw**



1. Install jaw to far left of carriage until it stops. **CLAMP TIGHT WITH JAW LEVER.**
2. Insert tip stop as shown, then insert jaw calibration template (metal bar with key ring in accessory kit).
3. Hold blank **FLAT** in jaw and press in and down while tightening.
4. Press **START** and then **OK** to begin calibration.

CALIBRATION COMPLETE screen will display.

Select **OK**. Note values for X & Y. – Record setup numbers then do a second Jaw Setup.

Select **START** to begin. Compare the setup numbers to first set. If the values are within +/- 2 of original numbers the jaw setup is complete*.

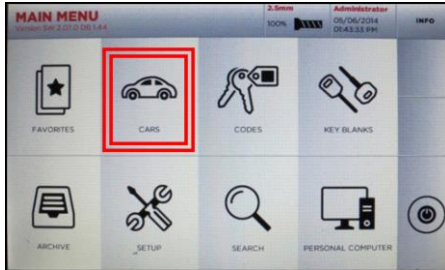
Select **SAVE**, and then select **YES** to confirm. Remove silver template.

*If the values are not within range run third jaw setup and compare 2nd & 3rd setup numbers.

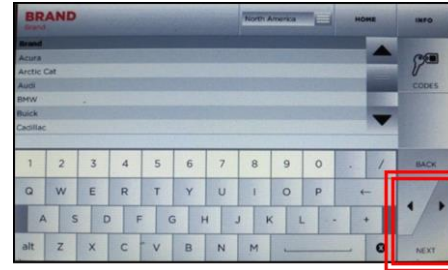


CUT BY CODE – EDGE CUT

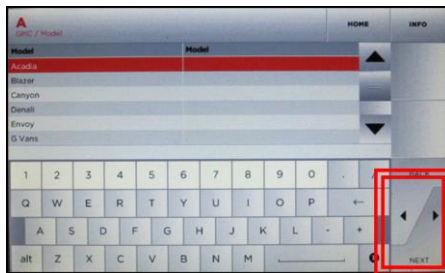
Switching to G jaw from A,B,C,D jaws



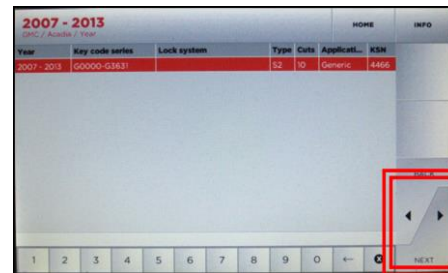
Select **CARS**



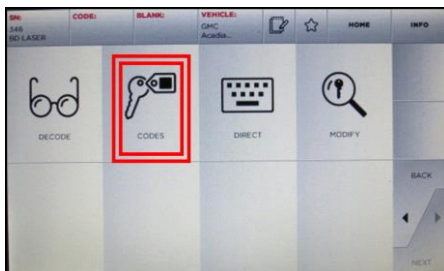
Select **BRAND (MAKE)** and then **NEXT**



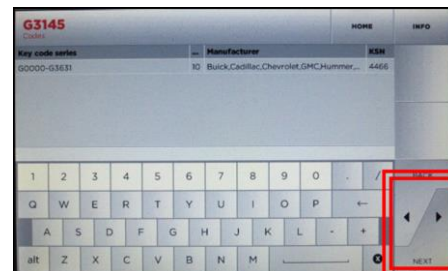
Select **MODEL** and then **NEXT**



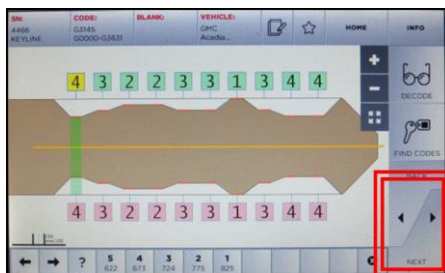
Select **YEAR** and then **NEXT**



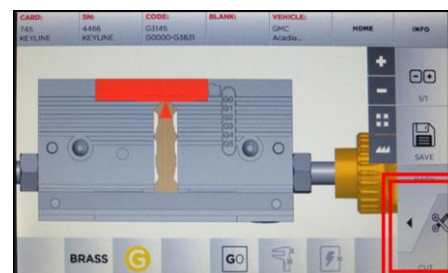
Select **CODES** and then **NEXT**



Select **NEXT**



Key depth display – Select **NEXT**



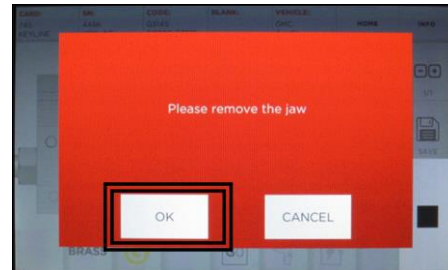
Select **CUT**



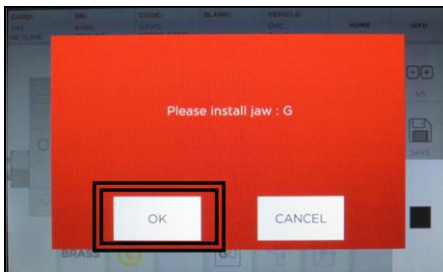
CUT BY CODE – EDGE CUT

Switching to G jaw from A,B,C,D jaws

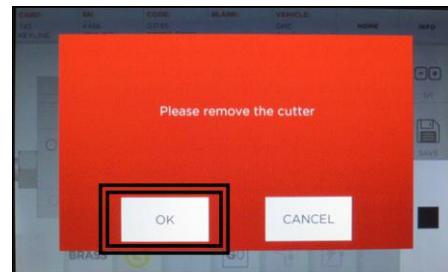
NOTE: Machine will recognize that the G jaw is not currently installed. Follow the machine prompts to change the jaw and cutter to continue cutting by code.



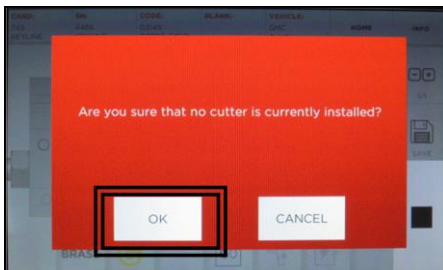
Remove current jaw and select **OK**



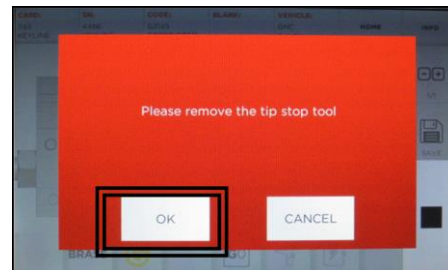
Install G Jaw and select **OK**



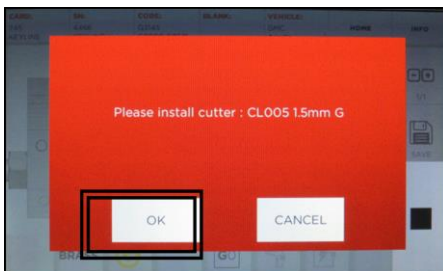
Remove the 2.5 mm cutter and select **OK**



Confirm cutter is removed and select **OK**



Remove tip stop (if applicable) and select **OK**

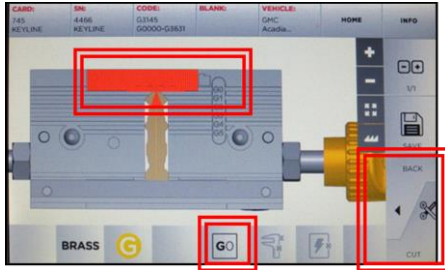


1. Install 1.5mm cutter. See Cutter Replacement section (page 15) for details.
2. Once complete, select **OK**.

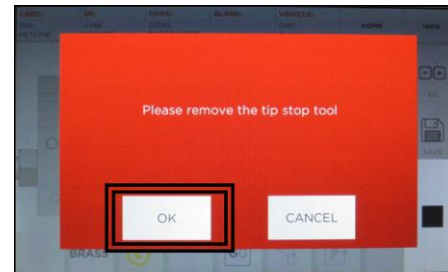


CUT BY CODE – EDGE CUT

Switching to G jaw from A,B,C,D jaws



Insert key on jaw using tip stop placement guide and select **CUT**



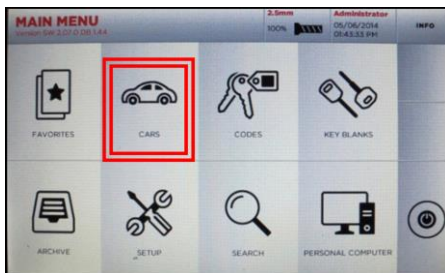
Confirm tip stop is removed and select **OK**

Key cutting process will now begin. Follow the standard cutting procedure.

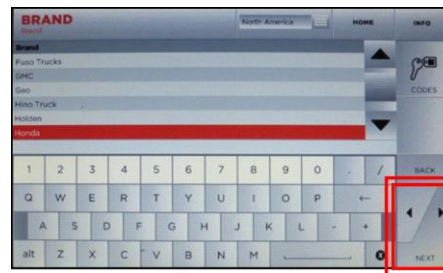


CUT BY DECODE

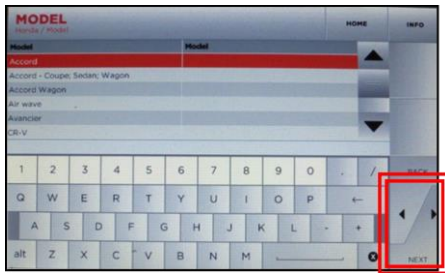
NOTE: Decode metal keys only. The machine does not support aluminum or plastic keys.



Select **CARS**



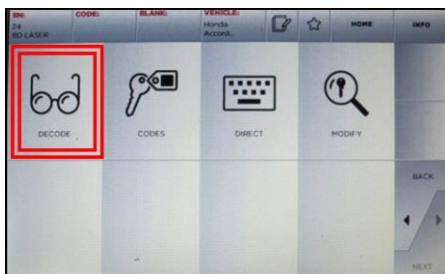
Select **CARS**



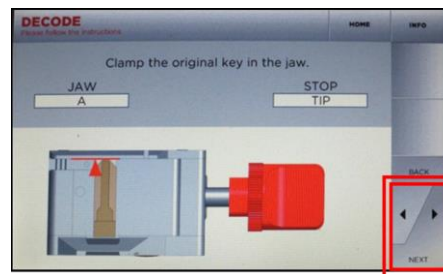
When prompted select **MODEL** and then **NEXT**



Select **YEAR RANGE** and then select **NEXT**



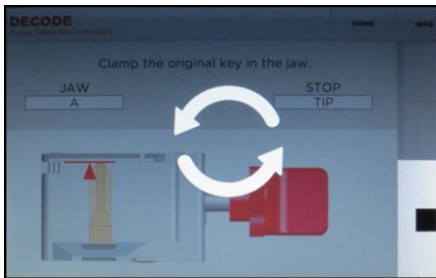
Select **DECODE** and then select **NEXT**



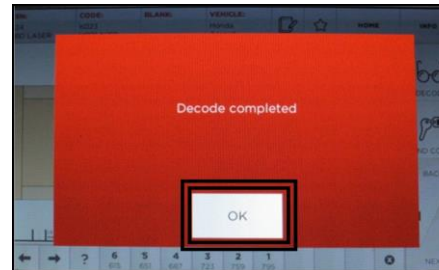
Insert key per screen instruction and select **NEXT**



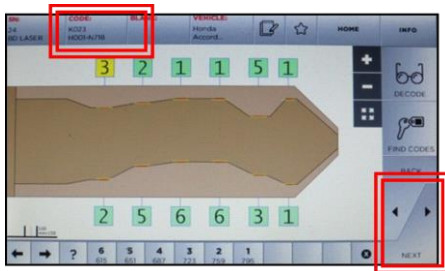
CUT BY DECODE



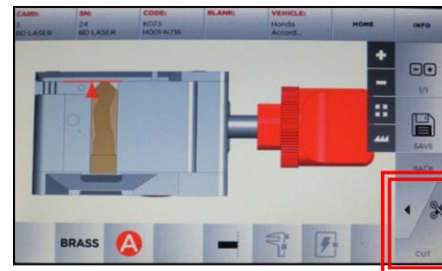
Decoding in progress



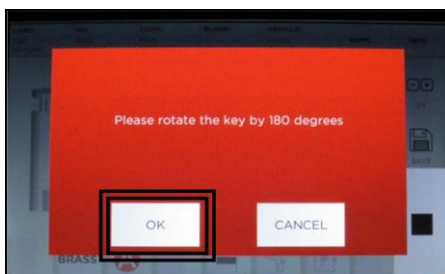
Decode complete. Select **OK**



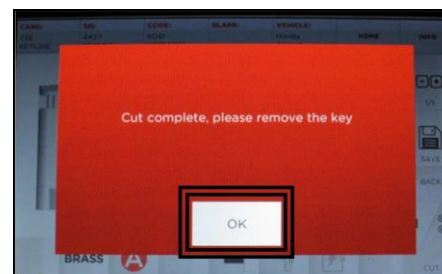
Key depths displayed. Verify code is correct and select **NEXT**



Place new key blank on jaw and select **NEXT**



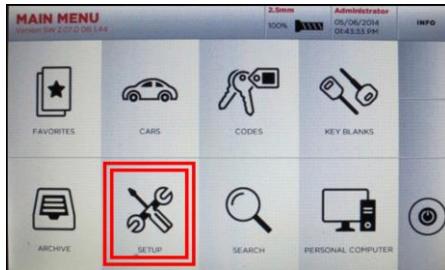
Rotate key for second side of cut and select **OK**



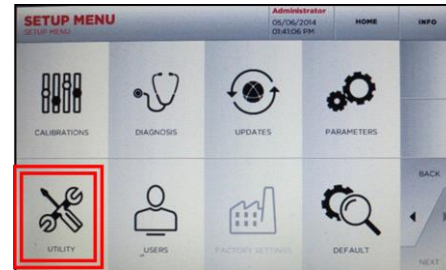
Key cutting is complete. Select **OK**



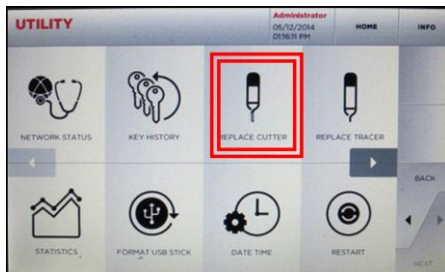
CUTTER REPLACEMENT



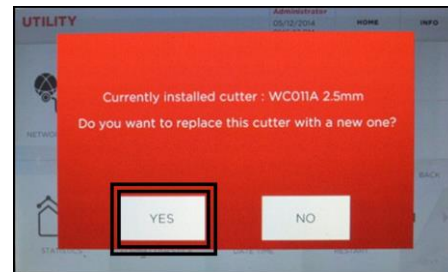
Select **SETUP**



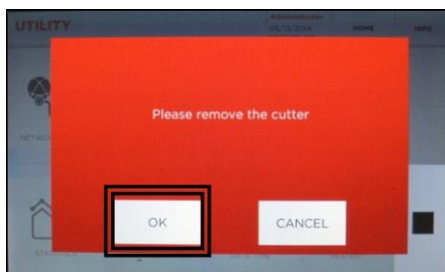
Select **UTILITY**



Select **REPLACE CUTTER**. Please be sure the appropriate jaw is installed



Current installed cutters displays. Select **YES** to continue.



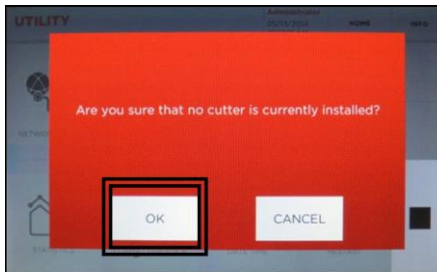
Select **REPLACE CUTTER**. Please be sure the appropriate jaw is installed

1. Insert red cutter removal tool in top of machine and rotate until it drops in position.
2. Press down to lock onto cutter.
3. Rotate until arrow on top red tool points left (9 o'clock position).
4. Insert long T-wrench into black collar on left side of cutter guard and loosen three turns. Leave wrench in place.
5. Remove red rod with cutter attached.
6. Remove old cutter from tool.
7. Select OK on screen.

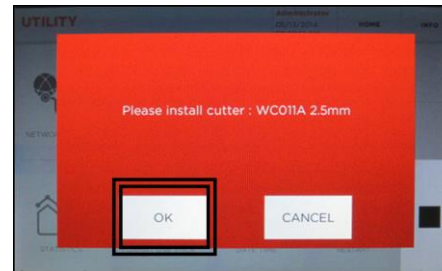




CUTTER REPLACEMENT



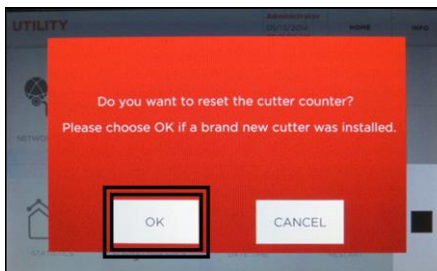
Confirm cutter removal and select **OK**
Jaw will move into position.



Install new cutter. See instructions
below

TO INSTALL NEW CUTTER:

1. Insert new cutter on red tool pressing in until cutter clicks into place.
2. Insert into hole on top of machine
3. Rotate until cutter rests lightly on the silver dot on the jaw and turn to 9 o'clock position before tightening
4. Tighten set screw with the long t-wrench
5. Remove t-wrench and red tool.
6. Select **OK** on screen.

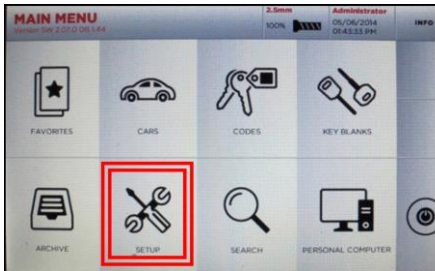


Select **OK** to reset cutter counter (only
if cutter is brand new)

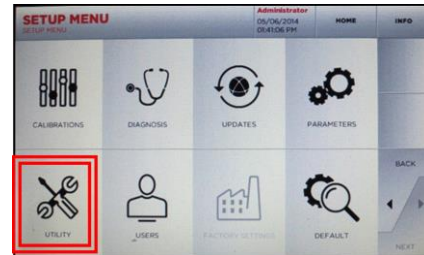
Select **HOME** at the top of screen to
return to the Main Menu.



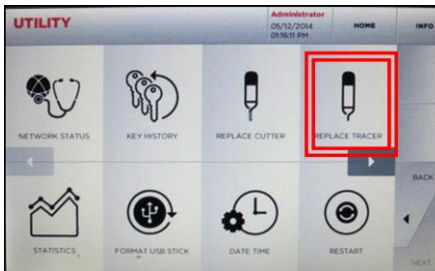
TRACER REPLACEMENT



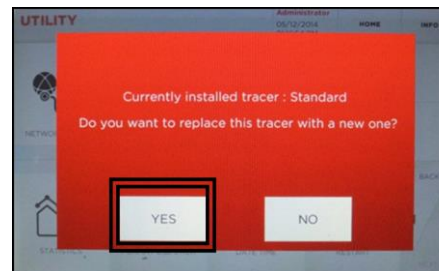
Select **SETUP**



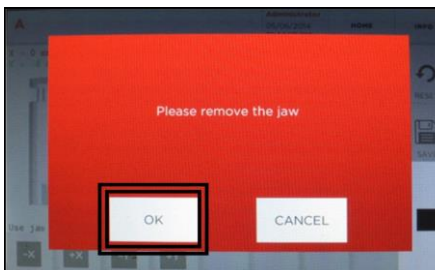
Select **UTILITY**



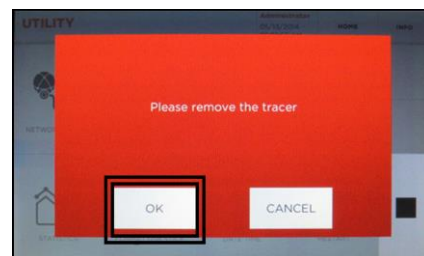
Select **REPLACE TRACER**



Current tracer installed displays, select **YES** to continue



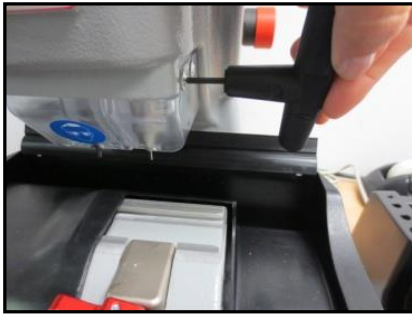
Remove jaw and select **OK**



Remove tracer; see instructions on **page 18**.

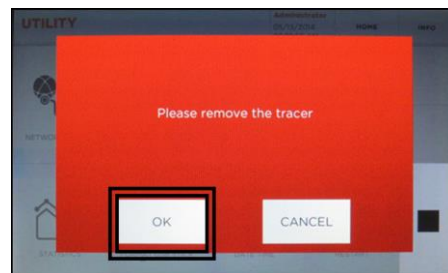


TRACER REPLACEMENT

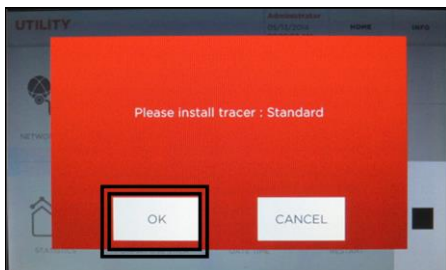


TO REMOVE TRACER:

1. Use short 2.5mm T-wrench to remove right side safety shield
2. Use 2.5mm short T-wrench to loosen tracer setscrew ½ a turn
3. Pull out tracer.
4. You may use pliers to remove tracer if it is bent or broken.



Select **OK** once tracer is installed



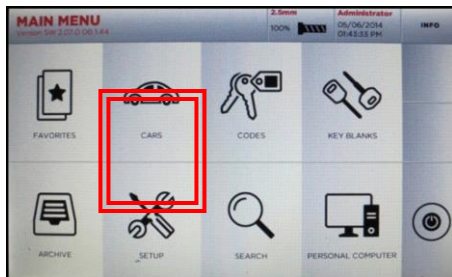
TO INSTALL NEW TRACER:

1. Install new tracer as far as it will go – you cannot go too far.
2. Be sure flat side of tracer is facing right to allow the set screw to seat properly.
3. Tighten set screw. **DO NOT OVER TIGHTEN.**
4. Re-install safety shield.
5. Select **OK** once tracer is successfully installed.
6. Install Jaw A,B,C or D and select **OK.**
7. Proceed with **Jaw Setup** (see page 6) for instructions.

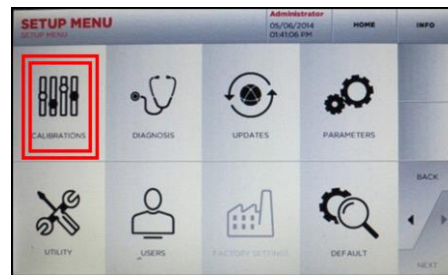


JAW SET UP – TIBBE “H”

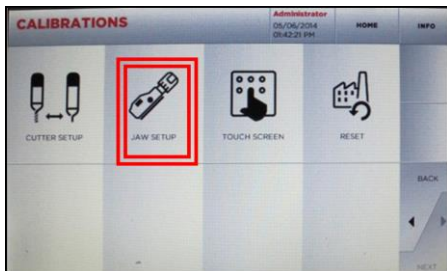
REQUIRED ITEMS: H Jaw, Tibbe calibration template, original un-cut Tibbe blank, 2.5mm allen wrench.



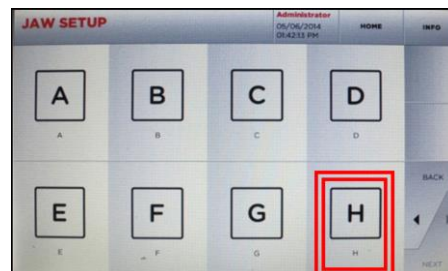
Select **CARS**



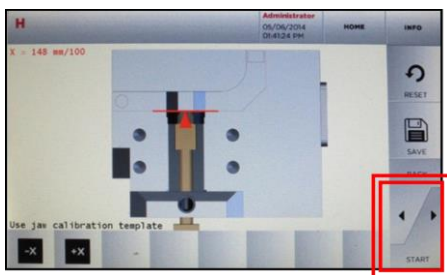
Select **CALIBRATIONS**



Select **JAW SETUP**



Select **H** jaw



Select **START**



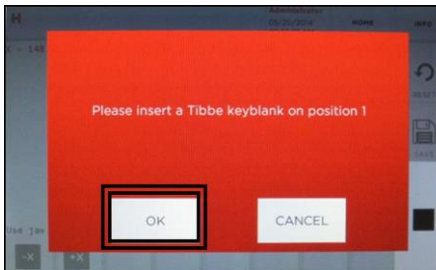
Remove current jaw and select **OK**



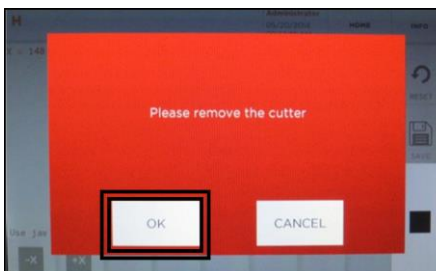
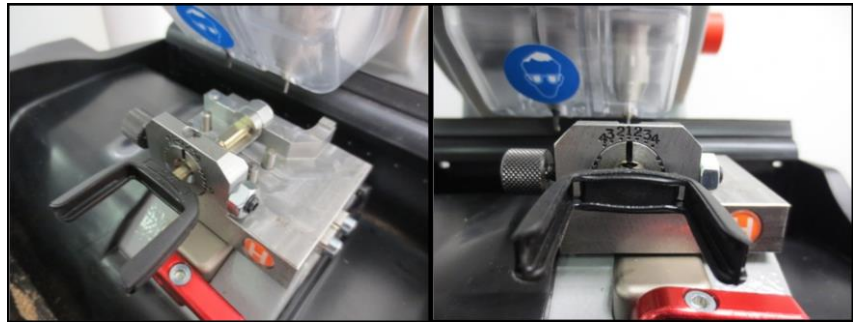
Install jaw **H** and select **OK**



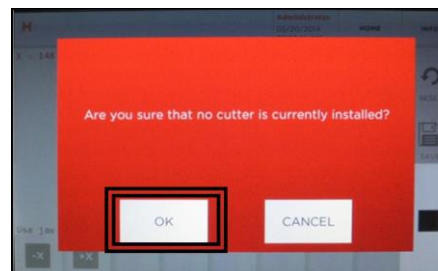
JAW SET UP – TIBBE “H”



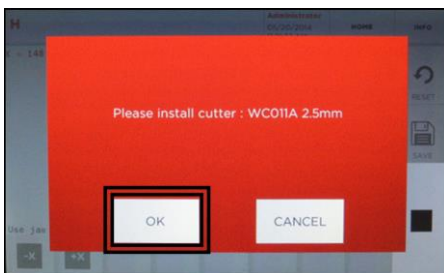
Insert a standard Tibbe key blank in jaw at **position 1** as shown in pictures



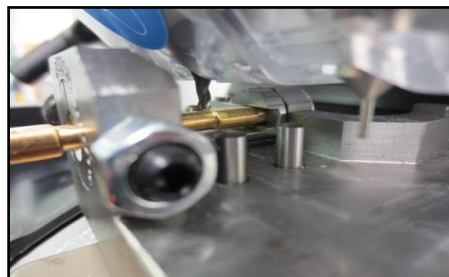
Remove the cutter, select **OK**



Confirm cutter removal and select **OK**. Jaw will move into position.



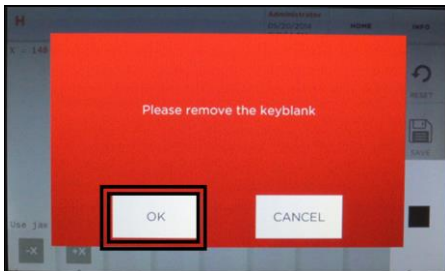
Install 2.5mm as shown in picture, then select **OK**.



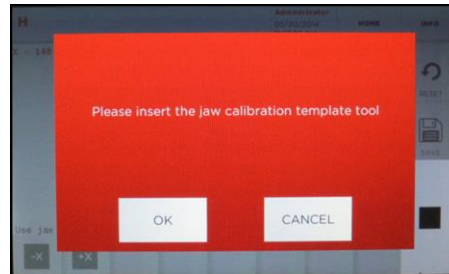
Install cutter until it drops down and rests on top of the Tibbe key blank.
Tighten cutter set screw. Jaw will move into position after selecting **OK**.



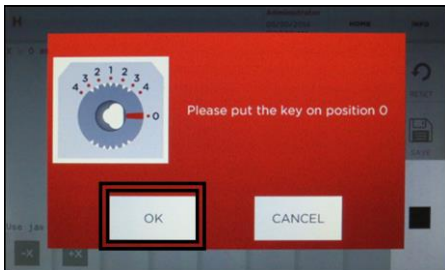
JAW SET UP – TIBBE “H”



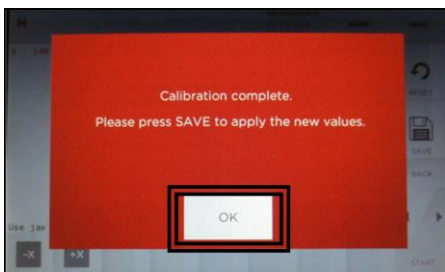
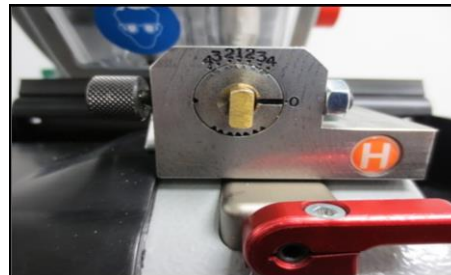
Remove key blank and select **OK**.



Insert Tibbe jaw calibration template (metal Tibbe template included with H Jaw). Insert template completely into jaw. Tighten front set screw with included allen wrench.



Turn template to position 0 (as shown in above picture) and tighten left side thumb wheel to lock in position. Select **OK** and jaw calibration will begin.



Once calibration is complete select **OK**.

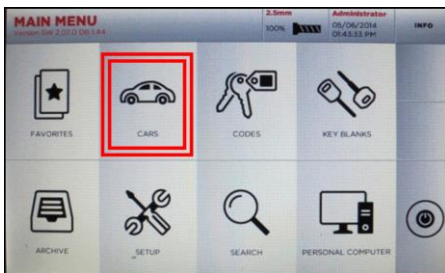


Once calibration is complete select **OK**.

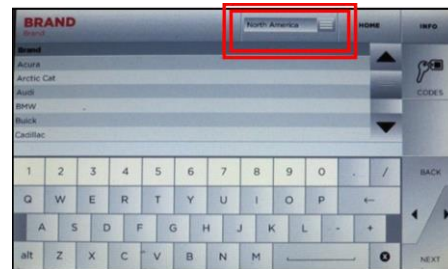
Select **HOME** to return to the **MAIN MENU**. Please proceed to page 22 for the Cut by Code – Tibbe instructions.



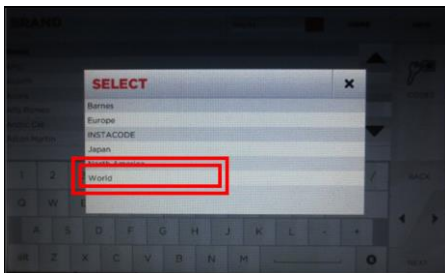
CUT BY CODE – TIBBE “H”



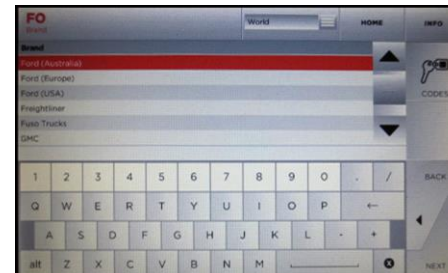
Select **CARS**



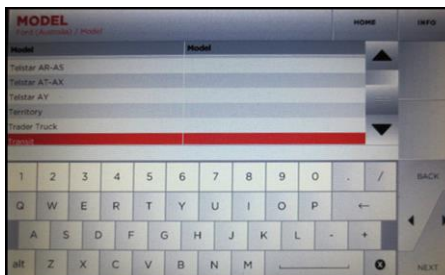
In the **BRAND** selection, go to drop down menu at the top



Select **WORLD**



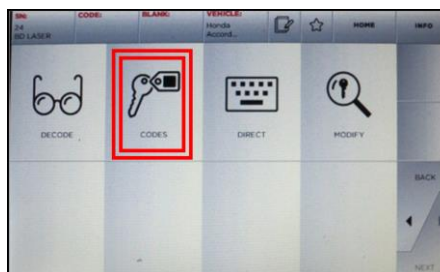
Select **Ford (Australia)** for Transit Connect



Select **MODEL** (i.e. Transit)



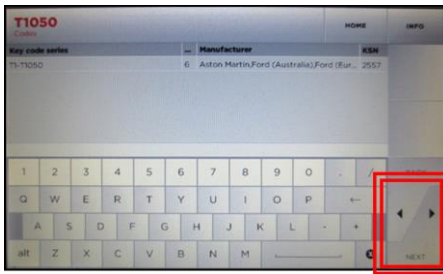
Select year range and press **NEXT**



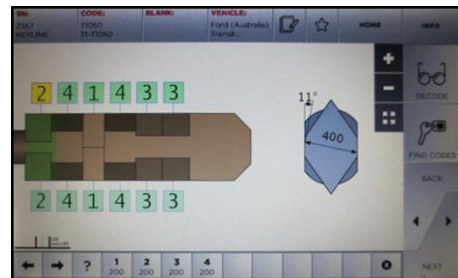
Select year range and press **NEXT**



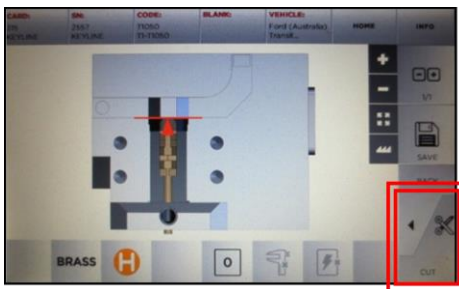
CUT BY CODE – TIBBE “H”



Enter Code, select **NEXT**



Key depths displayed, press **NEXT**

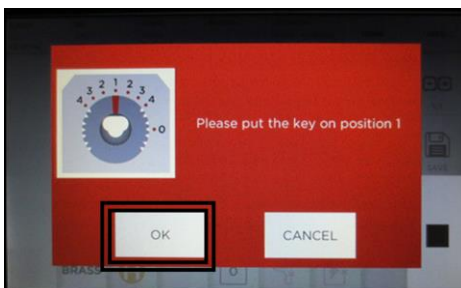
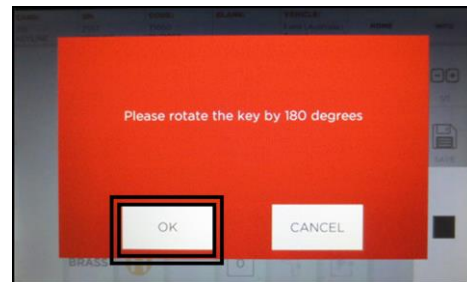


Insert Tibbe key blank on jaw in position 0 and select **CUT**

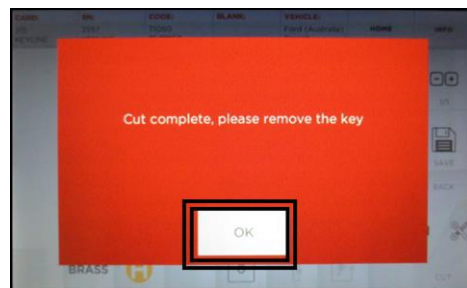


Turn key to displayed position and direction

1. Follow screen prompts until first side of key cutting is complete.
2. **Machine will prompt to put key into position 1**, then select **OK**.
3. Rotate key 180 degrees when prompted and select **OK**.
4. Follow prompts for second side key cutting.



Turn key to position 1, select **OK**.



Select **OK** and remove key.