

WEST BOND MANUAL WIREBONDERS

7730E

August 2017

OPERATING PROCEDURES

1.1 System Startup

Never touch the tool of the machine. **Remove wire tips.**

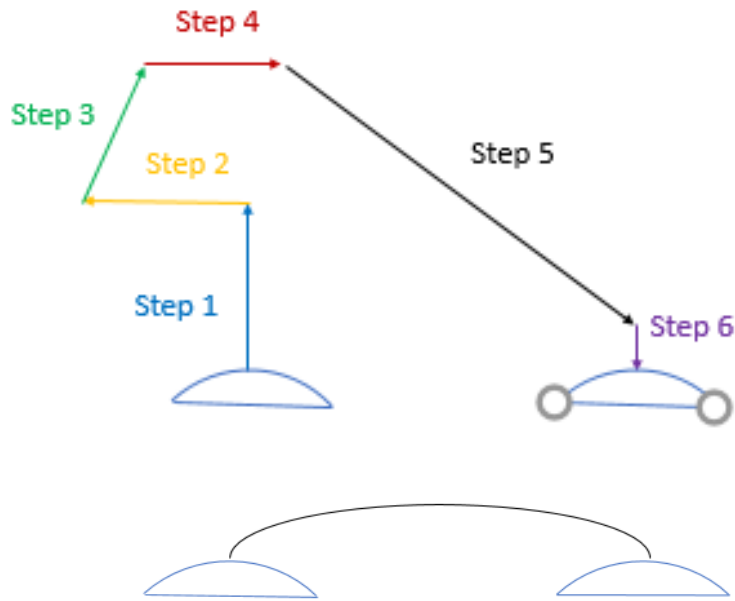
Follow these steps to start-up the machine:

- 1) Turn on the Heat Plate. Wait to reach temperature of about 140 before bonding. This will take several minutes.
- 2) Turn on the Bonder by flipping the power switch on.
- 3) Make sure the compressed air is turned on.
- 4) Observe the settings displayed on the screen. The only parameters that should be adjusted are **Power and Time**. Set both appropriately to allow the wire to bond readily to the pad and to avoid damaging the pad with excessive power/heat.
 - a. To change Time settings, press the EDIT switch from the main screen and use the PREV/NEXT switch until the time parameter is selected. Use UP/DOWN to adjust the value.
 - b. To change Time settings, press the EDIT switch from the main screen and use the PREV/NEXT switch until the time parameter is selected. Use UP/DOWN to adjust the value.
 - c. Press escape or go through the entire editing process to quit editing and start bonding. NOTE: A power level increase generally affects the bonds more than a time increase. (West-Bond Model 7730E High Frequency Ball-Wedge Bonder, p. 19)
- 5) Manipulate the microscope settings to find what best fits for you
 - a. Adjust the prescription on the eye pieces if needed (Generally keep at 0,0)
 - b. **Adjust distance between both eye pieces if necessary. You should see image from both eyes.**
 - c. Adjust focus **of microscope by turning the big knobs on the microscope** if needed
 - d. Turn on microscope lights.

1.2 Operation

Follow these steps to operate the machine:

- 1) Use the joy stick to maneuver the tool and to move it towards the center of the bond pad. Lower the tool and you will hear a clicking sound. The head of the bond is formed.
- 2) After the first end of the wire is attached, follow the path below to create a loop like the one under it. You should hear a clicking sound.



- 3) Repeat 1) and 2) as many times as needed.

1.3 Shutdown

Follow these steps to shut down the machine:

- 1) Turn off microscope lights
- 2) Turn off the compressed air
- 3) Turn off the Heat Plate
- 4) Turn off the Bonder