Wirebonder STANDARD OPERATING PROCEDURE

CORAL Name:

Model

Number:

Location:ICL

- Procedure: 1. Engage tool in Coral
 - 2. Turn on power switch, located on the lower right hand side of the machine.
 - 3. Choose which workstation is needed:
 - 4. Clamping- used for smaller packages and pieces
 - 5. Non-clamping- used for larger samples and full wafers
 - 6. Set workstation height:
 - 7. Use silver side of the height gauge
 - 8. Adjust height of the workstation, so that it is flush with the silver side of the height gauge when the workstation is placed on the steel spacing plate.
 - 9. Mount sample on workstation.
 - 10. Place the spacer plate and workstation on the wirebonder.
 - 11. Adjust focus and zoom on microscope so that the bonding area is in focus. (The tip should be visible in the upper view of the microscope.)
 - 12. Using the lever on the right hand side of the tool, slowly lower the bonding tip down to the pad you want to make the 1st bond on.
 - 13. Push lever down until it stops and then slowly allow it to return to its original position.
 - 14. Move sample to 2nd bond position, and repeat bonding procedure.

Adjusting Loop Height

- 1. Make 1st bond.
- 2. Adjust Loop Height dial to proper setting.
- 3. Make 2nd bond.

Replacing Tip

New tips are stored in table drawer.

- 1. Using small Allen wrench, loosen the screw holding the tip.
- 2. Remove and throw old tip away.
- 3. Remove new tip from vial.
- 4. Install new tip so that its top is flush with the transducer arm.
- 5. Tighten screw with Allen wrench, being careful not to over-tighten.

Threading Tip

Note: This can be somewhat difficult and is best to have a hands-on training by staff.

- 1. Use 5ASA tweezers with good tips, Hold the wire about 1" above the end and carefully angle the wire down into the top of the tip.
- 2. When the wire starts to come out of the bottom of the tip, grab the end of the wire and pull about 2" of wire through the tip.
- 3. Feed the wire through the wire guide above the tip.
- 4. Press and release the red "EFO" button on the front panel of the bonder. This will create a ball at the end of the tip.
- 5. Make a couple of test bonds.
- 6. Any problems encountered can be resolved by staff.