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Once the parameters have been set, click on OK. This launches the Auto Placer, which runs in a separate editor window.

You can stop the Auto Placer at any time by closing the Auto Placer window. You are then prompted as to whether you want to update the PCB file with the current placement.

### 7.8.3 Shove

This command allows you to place a component on a PCB so that it slightly overlaps other components on the board, and then automatically shoves the overlapping components to allow the new component to fit.

The Shove commands are located in the **Tools » Auto Placement** menu.

To do this, select **Shove** from the **Tools » Auto Placement** menu. The cursor will change to a crosshair. Position the cursor over the component that is to be positioned on top of other components and left-click or press ENTER. All the components that surround the selected component and are in contact with it will be moved aside to make room for the component, clearances permitting.

If a shoved component hits the edge of the Keep Out perimeter, there will be a "bounce back" effect and that component will back away from the edge and shove the other components until there is no overlap. To avoid shoving a particular component, enable its Locked attribute.

To control the "ripple" effect that shoving can produce, you can limit the number of subsequent component shoves (those produced by the initial shoved components) set the Shove Depth. A setting of "1" means that only the components which directly violate the "target" component will move until they are clear of the target. Setting the depth to "2" means that the process is repeated, allowing the newly shoved components to shove any components that they now overlap. Setting the depth to higher numbers allows more iterations of the process. To avoid unpredictable results on complex and dense designs, it is advisable to set the shove depth to a low number (the default is 1).

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