



Modeling with Vector Data Step-by-Step Reminder of Useful Functions (Edit Mode)


Remember these **Edit** mode functions to make 2D-to-3D CAD/PDF conversions, data cleanup, and break line entries faster and easier (see next page for **Entry** mode functions and more keyboard shortcut references) ...


Control visibility of layers/data with **Alt-V** (hide/redisplay current background layers, page 95), **Alt-B** (set/change current background display layers, page 219), **Alt-H** (hide selected data/redisplay hidden data, page 108).

Find Elevation function (**Edit > Find Elevation** from menu) can be used to find and select bad imported CAD elevations (page 95) when the more-efficient CAD elevation filter is not used in **Import** mode (page 81).


Label Selection  (**Ctrl-L**) and **Join**  (**Ctrl-J**) utilities are used to select and join sets of broken 2D vector data (contours and line work for buildings/pavements) to facilitate 3D conversion (pages 97, 107)—when joining line work, be sure to adjust **Bridge Gap Distance** (**Options > Bridge Gap Distance**) as needed.


Point Compression utility (**Options > Compression Delta** then **Utility > Compress Selected**) applied to existing surface contours (page 100) will reduce job file size; applied to design line work after joining in **Edit** mode (page 107) will remove potential duplicate join points.


Elevation Snap function (**F9** once) copies elevation from data point (or CAD text object) at **Arrow**  pointer tip to selected data point(s)/line(s). **F9** with a CAD text object parses and copies the numeric text value to any selected point/s (page 99) and/or line/s (page 96) as an elevation. If the selected data is 2D *Annotation* line(s), the **F9** elevation is assigned as an *Entered* value to the first point of the annotation line and to all other points on the annotation line as an *Interpolated* value (pages 96, 107). If the selected data is 3D *Data Line*(s), the **F9** elevation is assigned only to the selected point on the *Data Line* (page 117).

Auto-Increment Snap function (**F8** once per snapped line) assigns elevations to sequentially snapped contour lines based on contour interval and slope direction (page 98). Contour interval is set by consecutively **F8** snapping two consecutive 3D contours; each subsequently **F8** snapped 2D contour is then assigned an elevation value based on the two starting **F8** 3D contour values. If the subsequent **F8** snapped contours are 2D *Annotation* lines, the **F8** elevation is assigned as an *Entered* value to the first point of the annotation line and to all other points on the annotation line as an *Interpolated* value. (If the subsequent **F8** snapped contours are already 3D *Data Lines*, the **F8** elevation is added to the 3D *Data Line* as an *Entered* elevation only at the point nearest to the **Arrow**  pointer tip.)


Auto Pad utility (**Ctrl-P** in *AGTEK 3D*, **Ctrl-W** in *AGTEK 4D*) uses selected CAD elevation text labels and bounding *Annotation* lines to automatically elevate multiple level pad/building areas (page 108).



Insert/Break function (**F5** once) inserts a new data point on a line segment at the **Arrow**  pointer tip then immediately breaks the line at the new **F5** point. If **F5** is used at a sloping *Data Line* segment, the resulting **F5** point elevation will be correctly interpolated on the *Data Line* segment's slope (page 175).

Insert Point function (**F6** once) inserts a new data point on a line segment at the **Arrow**  pointer tip (as described with **F5** above) but line segment **is not broken** at the new **F6** point (page 123).

Move Point function (**F7** once) moves selected point to **Arrow**  pointer tip (page 175); (*press and hold F7*) "drags" selected point with **Arrow** pointer; or use **Extend/Shorten** variation (**F7** once) with selected end segment of a line (pages 123, 164).

Conform Selected utility (**Utility > Conform Selected**) elevates selected *Annotation* lines by "draping" them onto (1) *Data Lines* (**To Data Lines** option pages 101, 123) or (2) active *Surface* (**To Current Surface** option page 185).

Swap Ends  utility (**Ctrl-S**) reverses entry direction of selected object/s (pages 122-123, 145, 169); **Move Start Point** function (**Ctrl-M**) moves *diamond* point of closed object to the selected data point of the closed object (page 116).

Offset Line  utility (**Ctrl-O**) Creates new data lines from extant data lines based on a user-defined horizontal/vertical/slope specification (pages 116, 122, 174-176, 179-180). [*AGTEK 4D's* **Apply Template**  utility can be used to create multiple offset lines in a single pass (see *AGTEK* video references on page 174).]