Procedure when using AWS on ECHO FD

AWS is standard software on the ECHO FD. The following procedure should be performed by a qualified ultrasonic inspector familiar with the use of digital flaw detectors and codes such as AWS.

1. Choose the proper AWS qualified probe as it relates to frequency (2.25MHz, size of probe and wedge angle).
2. Set sound velocity, range and angle for selected probe
3. Calibrate for soundpath adjusting gain, range, zero and velocity so your x-axis or time base is set properly
4. Using and IIW Block type II test block, adjust gain (with reference gain off) to set echo height at a pre-determined full screen height (FSH) such as 50%...Note it is critical that when finding flaws this same FSH is used for the formula to work properly.
5. Turn on Reference gain by either highlighting Gain, F3 for Ref On. Note, this can also be done via pressing Menu/OK. select gain, F2 for Ref on, then add desired scanning gain such at 2 or 6 db
6. Highlight the top (Large) measurement box, press F2 for list and scroll down to D= AWS D1
7. When finding a defect, make certain the peaked signal is set to the same 50% FSH using the referenced gain (also referred to as scanning gain).
8. Note the other 2 measurement boxes will auto populate A and C values but can be changed by highlighting over them and pressing F2 for list to change to another value such as soundpath for Gate 1