

ALLEN DATAGRAPH

Technical Support Bulletin: Using the Controlled Depth Knife Holder for Cutting Thin Materials

Technical Support Bulletin (Last update 5-4-4)

Abstract: This support bulletin shows the usage of the controlled depth knife holder to allow cutting very thin materials. You would need to use this procedure when higher forces cut through the backer in places and not cut through the material in other places.

The photos below show a fully exposed knife blade and a partially exposed knife blade. You can change the amount of blade exposed by rotating the black cap. Normal materials can be cut with the knife blade fully exposed. Very thin material may require adjusting the controlled depth guide to keep from cutting through the backer.



The two photos on the left show the old screw lock to keep the cap in place. The photo on the right shows the new o-ring the keeps the cap locked in place.

To adjust the cut depth, remove the knife holder from the cutter and rotate the cap until the blade cuts through the material and not through the backer. You can then use a higher force so that the blade will always cut the same depth.

Newer model cap locking:

No additional steps are required as the cap is always locked in place by the friction of the o-ring.

Older model cap locking:

Once you have adjusted the cap you can lock the cap in place by adjusting the brass nut against the cap.