

Operation Manual

GRAPHTEC
621589500

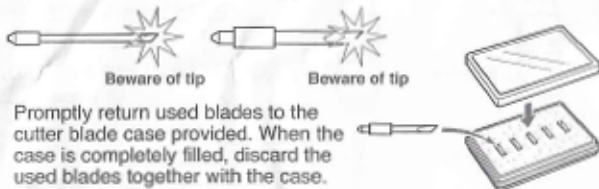
1. ⚠ Caution

This plotter performs cutting using a cutting blade. To prevent operator injury, observe the following precautions whenever replacing the cutter blade, mounting the cutter pens, or handling a cutter blade for other purposes.

1.1 Cutter Blades



Cutter blades are very sharp. While handling a cutter blade or cutter pen, be careful to avoid cutting your fingers or other parts of your body.



1.2 Plunger

The tip consists of a sharp blade. Do not extend it further than is necessary.



2. Applicable blades

Be sure to mount the cutter blade you will be using in the appropriate plunger. For blade-tip offset values, refer to the User's Manual and/or other supporting documentation for the main plotter unit.

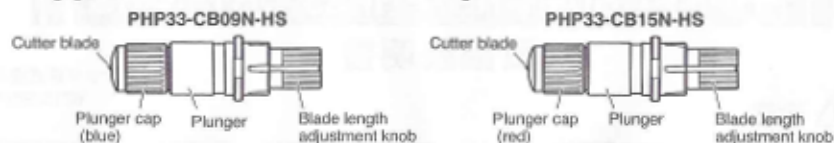
Applicable Blades for PHP33-CB09N-HS/PHP33-CB15N-HS Plungers

Plunger set	Color classification	Cutter blade types
PHP33-CB09N-HS	Blue	CB09UB-1
		CB09UB-5
		CB09UB-K60-5
PHP33-CB15N-HS	Red	CB15U-5
		CB15UA-5
		CB15UB-2
		CB15U-K30-5
		CB15UA-K30-5

Prior to using the cutter blades listed below, remove the attached spring while referring to "4. Replacing the blade."

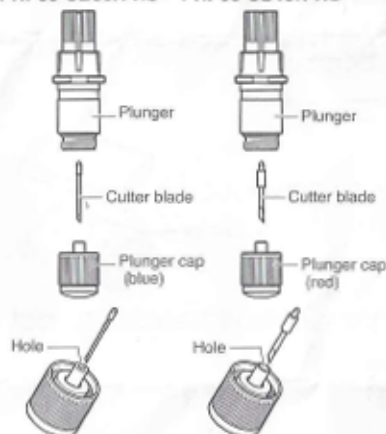
Plunger set	Color classification	Cutter blade types
PHP33-CB09N-HS	Blue	CB09UA-5 (Spring attached)
		CB09UA-K60-5 (Spring attached)
		CB15U-5SP (Spring attached)
PHP33-CB15N-HS	Red	CB15U-K20-2SP (Spring attached)
		CB15U-K30-5SP (Spring attached)

3. Appearance and names of parts



4. Replacing the blade

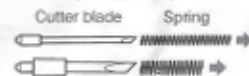
PHP33-CB09N-HS PHP33-CB15N-HS



1. Turn the blade length adjustment knob counterclockwise to retract the blade into the plunger.
2. Remove the plunger cap from the plunger by turning it in the counterclockwise direction.
3. Remove the blade from the plunger cap.
4. Insert the replacement blade into the hole located on the plunger cap.

⚠ Caution

For replacement blades accompanied by springs, remove the spring prior to inserting the blade into the hole on the plunger cap.



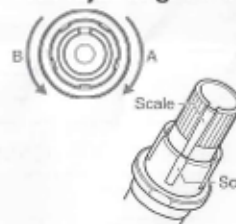
5. Gently reattach the plunger from the top down by sliding it into the cap containing the inserted blade.

5. Adjusting the blade-tip length



The length between the tip of the blade and the end of the holder is called the blade-tip length (L). If the blade-tip length is too long for the thickness of the film, not only will the accuracy of your cutting be adversely affected, but you may also damage the blade or the plotter itself. Following the steps below, adjust the blade-tip length to correspond with the film to be cut.

5.1 Adjusting the blade-tip length



The blade-tip length is adjusted by turning the blade length adjustment knob.

- Turn the knob in the direction of A (clockwise) to increase the blade-tip length.
- Turn the knob in the direction of B (counterclockwise) to decrease the blade-tip length.

The scale on the bottom stopper allows you to see how much the blade has moved.

- Turn the knob by one division on the scale to move the blade approx 0.1mm.
- Turn the knob by one full turn to move the blade approx 0.5mm.

5.2 Determining the Correct Blade Length

The length of the blade is determined by various factors such as the thickness and stiffness of the vinyl, whether there is a backing sheet, and the thickness of the backing sheet. For details, please refer to your User's Manual for the main plotter unit.