

# Cross Vane Panel Trap Modification Protocol

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The following is an **optional** modification that can be made to the Cross Vane Panel Trap (also known as the intercept panel trap). This modification makes it easier to remove specimens from the collection cup. The modification requires the replacement of the standard collection cup that comes with the trap with the bottom funnel of a Multi-funnel Trap. The modification takes approximately 15 minutes to complete.

The Cross Vane Panel Trap is an approved trap for the following CAPS targets:

*Megaplatypus mutatus*  
*Monochamus alternatus*  
*Monochamus urussovii*  
*Tetropium castaneum*  
*Tetropium fuscum*

## Items Needed:

- Cross Vane Panel Trap
- Multi-funnel Trap (bottom funnel and collection cup). You may either remove the bottom funnel and cup from an existing trap or purchase these items separately through the IPHIS Survey Supply Ordering System:
  - Multi-funnel Trap, Replacement Funnel – Bottom
  - Multi-funnel Trap, Collection Cup, Wet
- Small knife
- Zip-ties

**Figures 1 & 2.** Cross Vane Panel Trap and collection cup.



**Step 1.** Remove the bottom funnels from the Cross Vane Panel Trap and Multi-funnel Trap (Fig. 3, 4, 5).



**Figure 3.** Bottom funnel of Cross Vane Panel Trap.



**Figure 4.** Bottom funnel of Multi-funnel Trap.

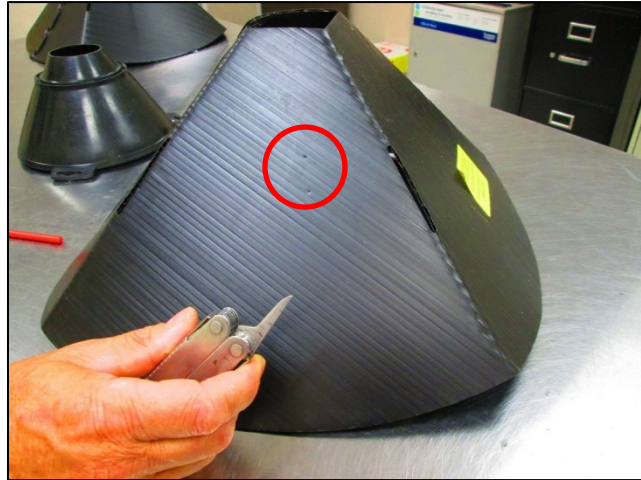


**Figure 5.** Bottom funnels of Cross Vane Panel and Multi-funnel Traps.

**Step 2.** Place the funnel from the Multi-funnel Trap on top of the Cross Vane Panel Trap funnel and mark where to cut the holes using a pen, pick, knife, or paper clip. Mark two holes for each connecting tab; six total (Fig. 6 & 7).

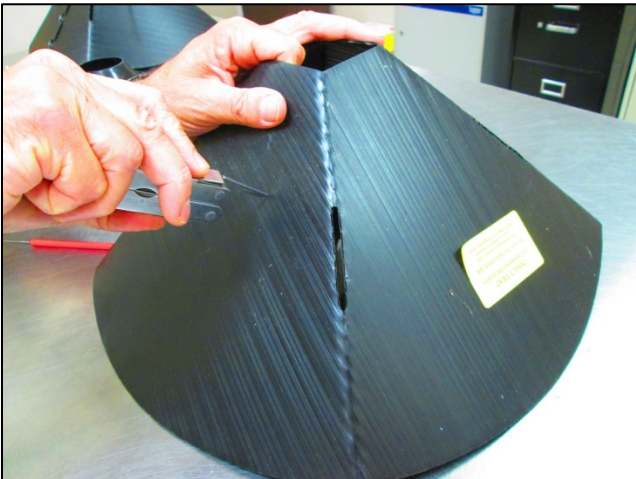


**Figure 6.** Multi-funnel on top of Cross Vane funnel.

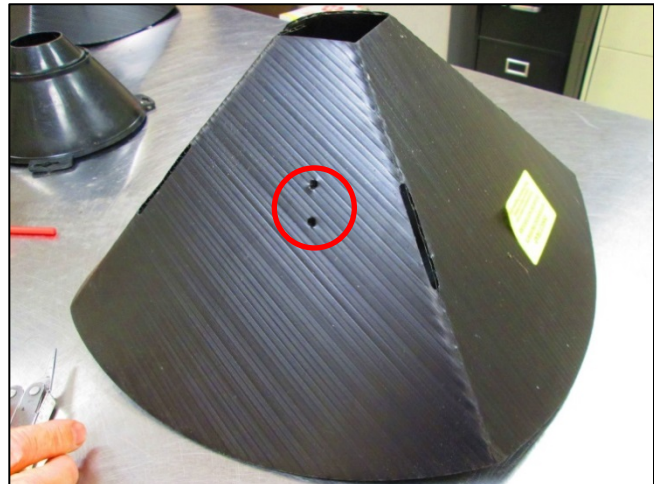


**Figure 7.** Holes for connecting tabs in red circle.

**Step 3.** Cut holes for the zip ties where you marked them; six holes total (Fig. 8 & 9).



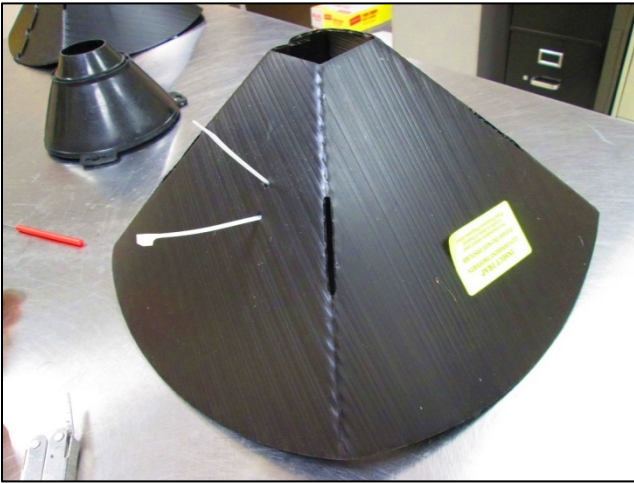
**Figure 8**



**Figure 9**

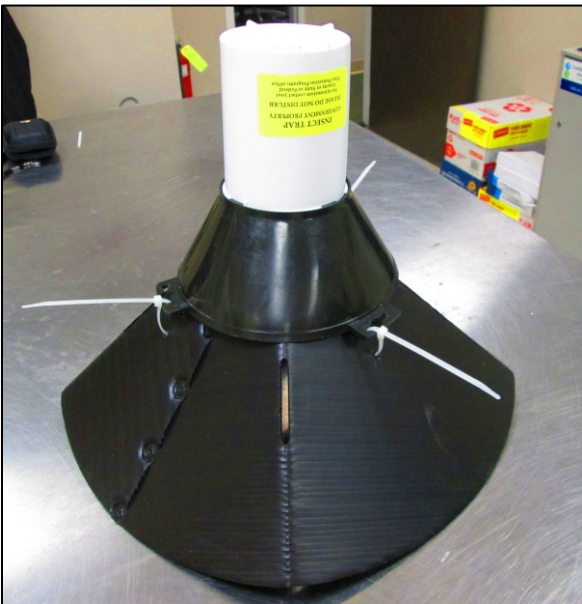


**Step 4.** Place a zip tie through each set of holes; three zip ties total (Fig. 10).

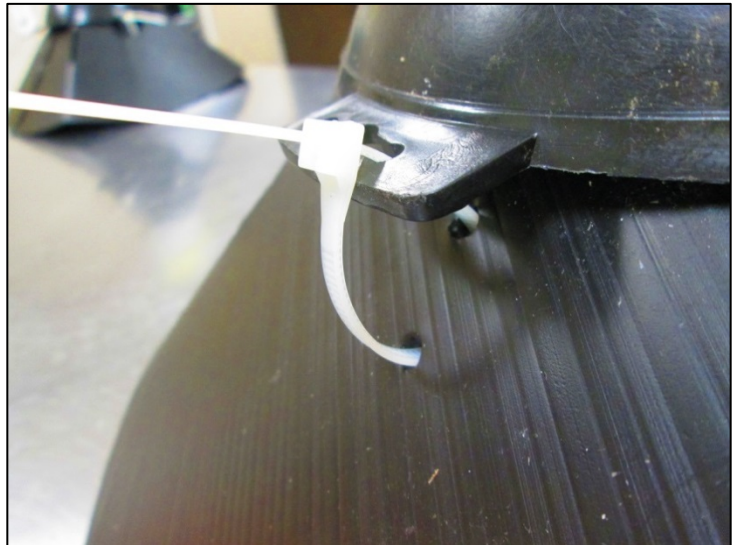


**Figure 10**

**Step 5.** Connect the funnel from the Multi-funnel trap to the funnel of the Cross Vane Panel Trap using three zip ties (Fig. 11 & 12).



**Figure 11**



**Figure 12**

**Step 6.** Reconnect the bottom funnel to the Cross Vane Panel Trap using zip ties (Fig. 13 & 14).



**Figure 13**



**Figure 14**

The trap modification is now complete. You can now use the twist off collection cup for your Cross Vane Panel Trap.

This protocol was prepared by Nichole Carrier (PPQ) on October 1, 2015. All photos were taken by Kenneth DiVito (PPQ).