

## Instructions for Assembling Tye Feeder from 3D Printer

Materials needed:

- Six pieces from 3D printer (handle, pivot, lever, bottom, top, slider)
- 50 mL conical tube with cap
- Eight #6 x 5/8" pan head phillips screws (McMaster-Carr number 90190A150)
- One extension spring (McMaster-Carr number 9433K6)
- One ¼"-20 thread pan head machine screw 1" length (McMaster-Carr number 90272A542)
- One ¼"-20 hex nut (McMaster-Carr number 90473A029)
- Gorilla glue
- Sandpaper or file

In order to view 3D CAD design you will need to download Google SketchUp. This software is free to download..

Fit slider into the groove of the bottom piece (you may need to sand or file the slider to fit properly into the bottom piece.

Use the ¼"-20 screw and hex nut to fasten the lever onto the slider

Use four #6 x 5/8" screws to fasten the top piece to bottom piece (this will "sandwich in" the slider.

Attach extension spring to the small hole on the slider (you may have to bend the last loop of the spring)

Slide the opposite end of the spring through the hole in the handle and attach to the bar on the back (you may have to bend the last loop of the spring)

Use two #6 x 5/8" screws to fasten the top piece to the handle

Use two #6 x 5/8" screws to fasten the pivot to the handle.

If the slider does not move back and forth easily you may need to either slightly loosen the screws connecting the top and bottom pieces or sand down the slider to fit smoothly in the bottom piece.

8) Cut a hole the size of a dime in the cap of the 50 mL conical tube. Glue to the opening on the top piece. Once dried, the conical tube containing the feed can be screwed on and off of the feeder.

Tips:

Disassemble and clean feeder regularly to prevent clogging.

-Can be used to feed granular pellet feed or crushed flake food

-As is the feeder feeds ~0.12 g of granular pellet food per pull of the trigger

-To change the amount to be fed, simply change the diameter of the hole in the slider.

