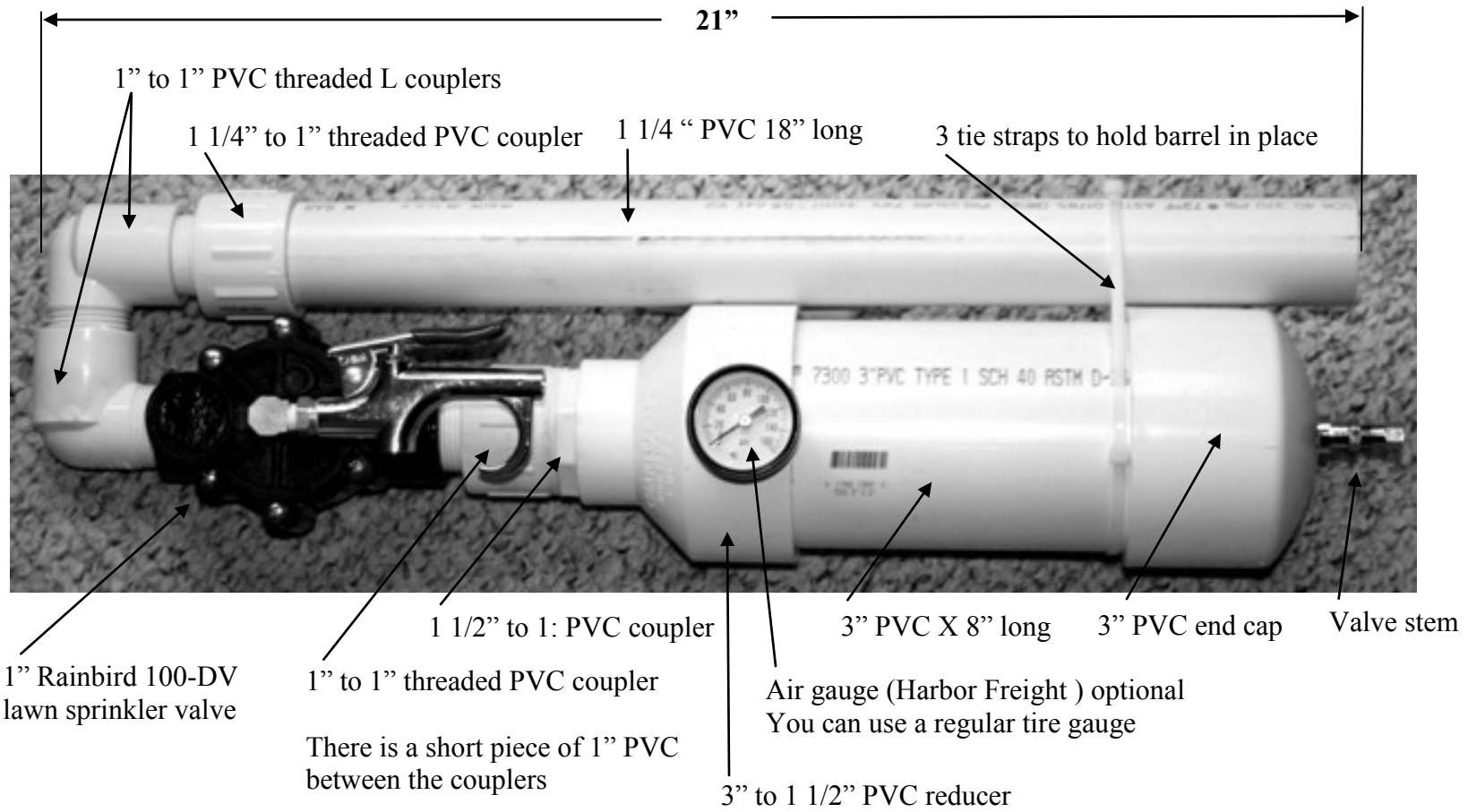


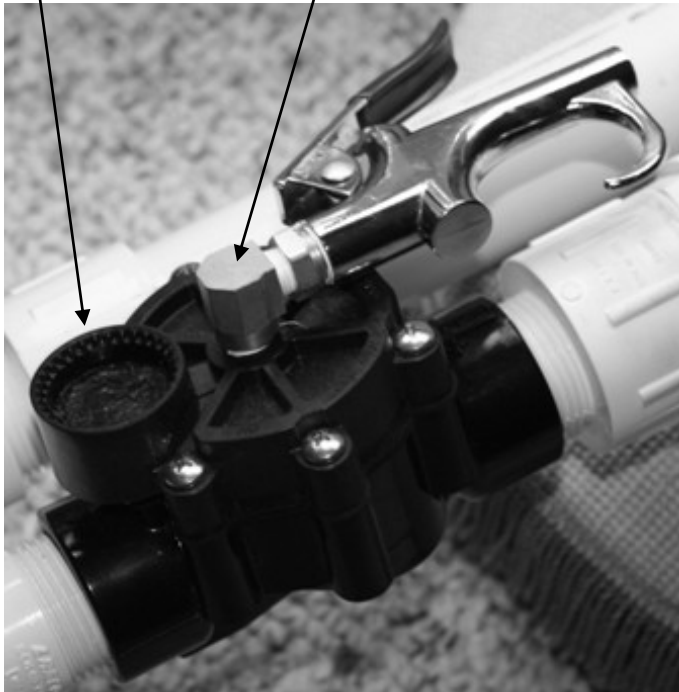
PVC Antenna Launcher
By: Charlie Burgstahler K8BLO



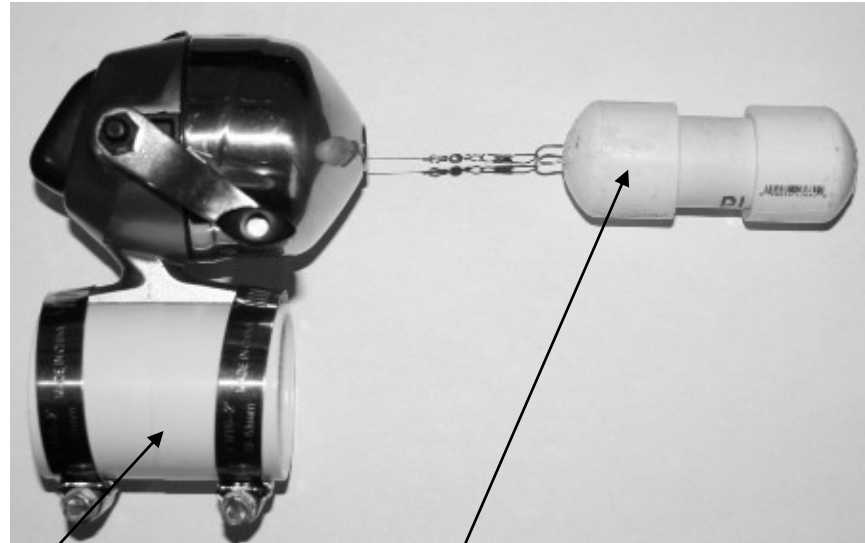


Remove solenoid
and fill holes with
epoxy

Remove valve top cover.
drill and tap a 3/8" hole.
(I used the 1/8" brass elbow
for the tap)



Parts for trigger assembly
1/8 " brass nipple
1/8 " brass elbow
1/4 " to 1/8 " bushing
Air duster (Harbor Freight)



1 1/4" PVC coupler
Slips over end of barrel for
shooting and slips off for
reeling in the line

Projectile 3/4 " PVC pipe 2 1/2"
long with two 3/4" end caps. I
used a paper clip for the eyelet

THIS IS NOT A TOY, USE CAUTION
25 PSI will shoot the projectile 100 feet in the air

PVC Parts (SCH 40)

- (2) 1" to 1" PVC threaded L couplers
- (1) 1 1/2" to 1" PVC coupler
- (1) 1 1/4" to 1" threaded PVC coupler
- (1) 1 1/4 " PVC 18" long (barrel)
- (1) 3" PVC 8" long
- (1) 3" PVC end cap
- (1) 3" to 1 1/2" PVC reducer
- (1) 1 1/4" PVC coupler

Projectile

- (1) 3/4 " PVC pipe 2 1/2" long
- (2) 3/4" end caps.

Other parts

Air gauge (Harbor Freight) optional
You can use a regular tire gauge

- (1) Valve stem

Parts for trigger assembly

- (1) 1/8 " brass nipple
- (1) 1/8 " brass elbow
- (1) 1/4 " to 1/8 " bushing
- Air duster (Harbor Freight)

- (1) 1" Rainbird 100-DV lawn sprinkler valve
- (3) Tie straps to hold barrel in place
- (1) Shakespeare Synergy 10 Fishing Reel

All parts were available at Lowe's and Harbor Freight. I used 20Lb. Test SpiderWire for the line. Don't be afraid to use a lot of PVC cement. Use plumbers tape on the threads of the air gauge, lawn sprinkler valve and the brass fittings

File off any burrs and bumps on the projectile for a smooth fit.

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