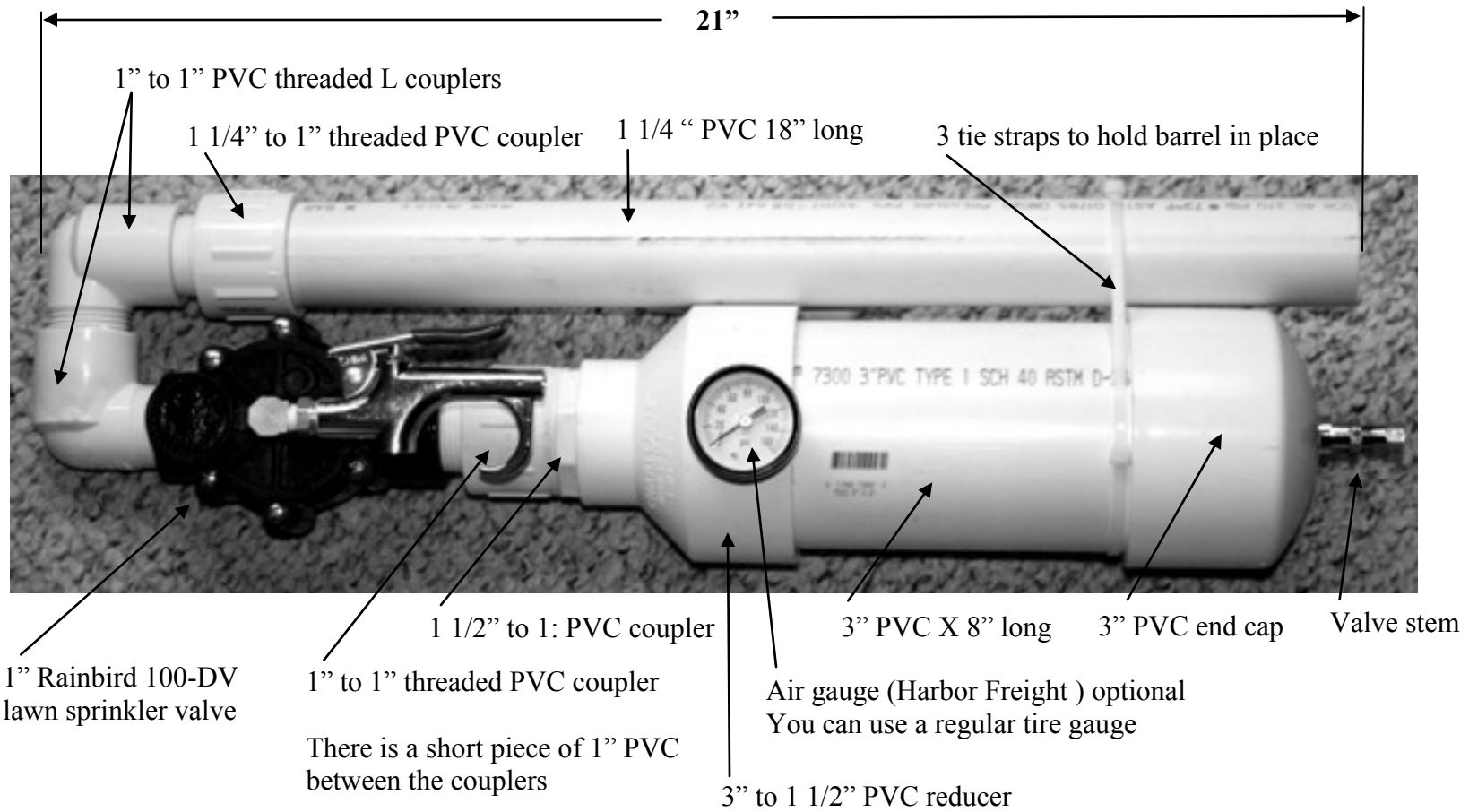


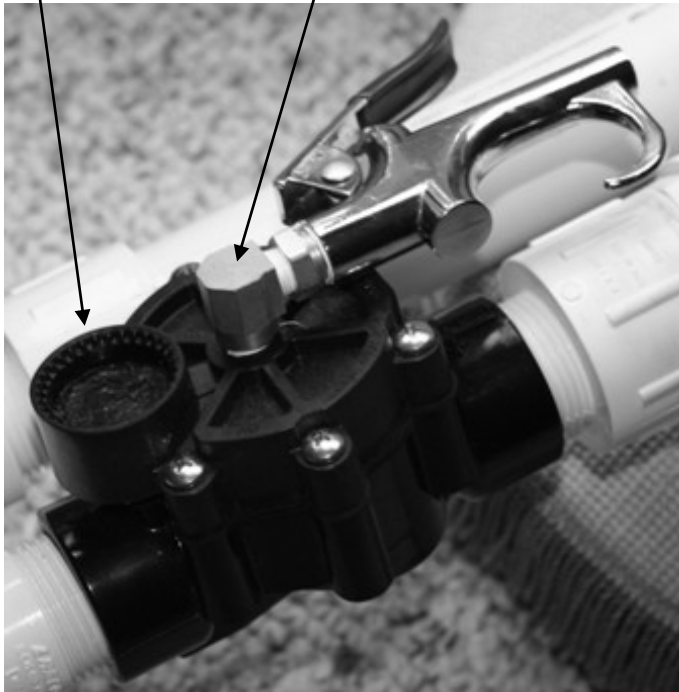
**PVC Antenna Launcher**  
**By: Charlie Burgstahler K8BLO**



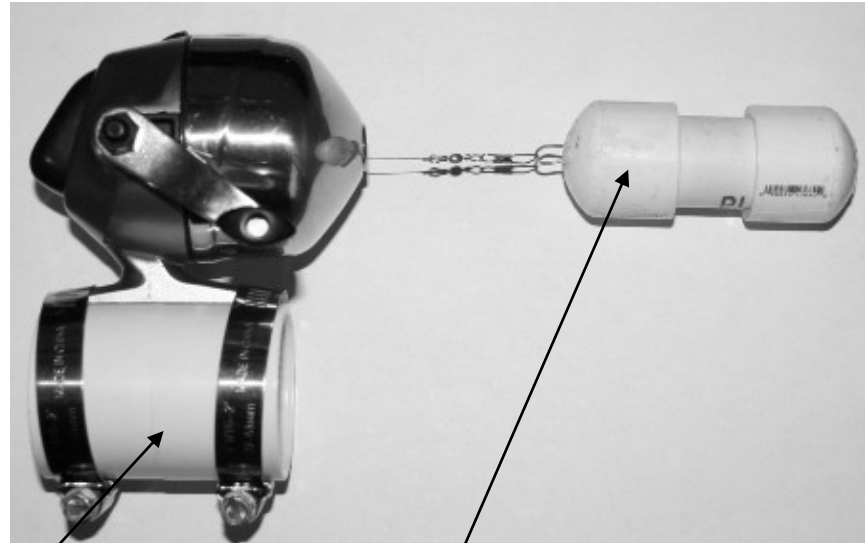


Remove solenoid  
and fill holes with  
epoxy

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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