

Pneumatic Line Launcher

All pvc pipe used is schedule 40:

1. 3" pvc end cap - \$4.39
2. 12 inch section of 3" pvc pipe - \$6.45
3. 3" to 1.5" pvc coupler - \$3.65
4. Tire valve - \$1.50
5. 1.5" to 1" bushing - \$1.26
6. 1" to .75" adapter (threaded) - \$1.52
7. Inline automatic sprinkler valve - \$17.57
8. 1" to 1.25" pvc adapter - \$1.56
9. 2 feet of 1.25" pvc pipe - \$4.14
10. Fishing reel and 2 pipe clamps - ????????
11. PVC cleaner/primer and PVC cement
Sand paper and Teflon tape

Assembly steps:

1. Cut and deburr all pieces
2. Drill hole for tire valve in the 3" to 1.5" coupler
3. Install tire valve
4. Assemble starting from the 3" end cap
5. Clean and cement each piece except for the 2 threaded pieces that attach to the sprinkler valve

Projectile:

1. .75" pvc end caps – \$.38
2. 2.5 inch section of .75" pvc pipe - ????
3. Paper clip

Assembly steps:

1. Cut and deburr pvc pipe
2. Drill 2 small holes in end cap to pass the paper clip thru insert straightened paper clip and twist ends inside cap
3. Glue 1 drilled and prepared cap on one end of the 2.5" section of pvc then glue a non drilled cap on the other end.
4. Sand ridges off outside of projectile

Firing Circuit:

1. 1 momentary contact switch (normally open)
2. 1 spst switch
3. 2 9 volt batteries with harnesses
4. 1 Project box (optional)

