

Laser Sight

Materials:

MiniMag Flashlight (Canadian Tire or Wal Mart)
Cheap Laser pointer (Business Depot)
2 6"Lengths of small gauge wire. I used 1 pair from CAT3 cable.
Scope mounts.
O-Ring

Instructions:

1. Open up the front and remove the bulb, and the little piece that says, "Do not remove".
2. Figure out a way to mount the laser diode in the front portion of the Mini-mag. A small o-ring will give it some movement for sighting. I used a diode from a laser pointer I purchased from business depot. Mine slid in from the back and rested perfectly against the hole where the bulb mount was. I had to solder connectors onto the back of the diode so one contact touched the battery terminal, the other contacted the inside body of the flashlight. A little bit of hot glue will seal the other connector so it does not contact battery also.
3. The battery cover must be cut down to account for the lessened space inside the battery chamber. Use a hacksaw to remove the small lip in front of the threads. Drill a tiny hole through the back (just large enough to fit the 2 wires through).
4. Cut a pen spring in half. Solder one wire to the end.
5. Remove the spare bulb from the red plastic piece inside the battery cover. Cut about 1/4 of the red piece off. Cut about 3/4 of the ridges inside the red piece so the pen spring can slide in and stop with the wire protruding from the back. Wrap the other wire around the outside of the red plastic insert. Twist both wires together and feed them through the hole in the battery cover. The spring should stick up and act as a battery contact.
6. I used the mounts from a broken Bushnell rifle scope I had. They fit the mag quite well with strips of leather inside to protect the anodizing and insure no slip fit.
7. You have a straight working laser sight!

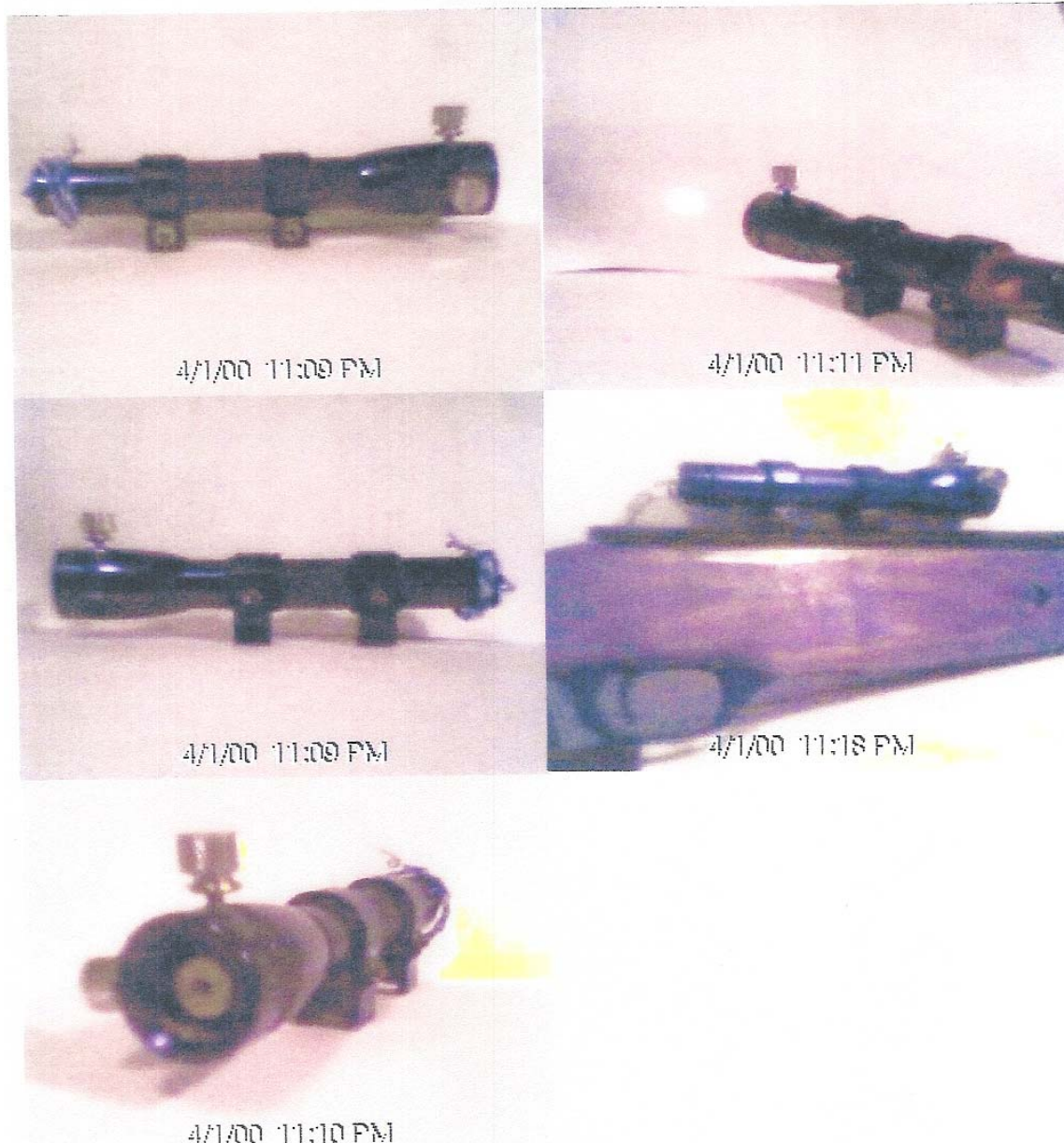
Adjustments:

Optional (but recommended if you want any kind of accuracy).

Materials:

I used 2 thumbscrews from my PC case.
Other half of pen spring

1. Drill 2 holes in the top of the Mini-mag where the twist grips are 45 degrees to each other. i.e. Top and right side.
2. Force thread then thumbscrews into the holes. Be careful and patient. It should take about 10 minutes.
3. Stretch out the pen spring and position it against the laser diode, so that the diode is pushed toward the screws. Screw the lens cap on. You should now be able to fully adjust the sight on the fly.



Thread Savers

The \$0.45 version:

This is so easy to do it's unreal! Whether you have a lot of tanks or just a few they all should have thread-savers on them to protect the o-ring and the groove it sits in. Commercial ones cost anywhere from \$3 to \$4 each. Losing one really ticks you off too. This simple how-to lets you make some that other people will admire and is very cheap.

Materials:

- Coupling Nuts #A-848, available from Home Depot & Lowes for about \$0.70 for a package of 2.
- A dime
- Some epoxy.

This is a picture of the nuts. They are 0.5" NPT Faucet Coupling Nuts.



Here's everything else!

Put a couple of drops of glue on the inside of the top of the nut and then drop the dime in.



Now just screw the nut onto the tank and you're done!



The \$0.35 version:

If you're worried about someone stealing the dime or if you are real cheap cut the top cap of a 2 liter soda bottle to fit the inside of the nut. This makes it into a \$0.35 thread-saver!



Pretty simple and it really works!

Paintball Assault Vehicle

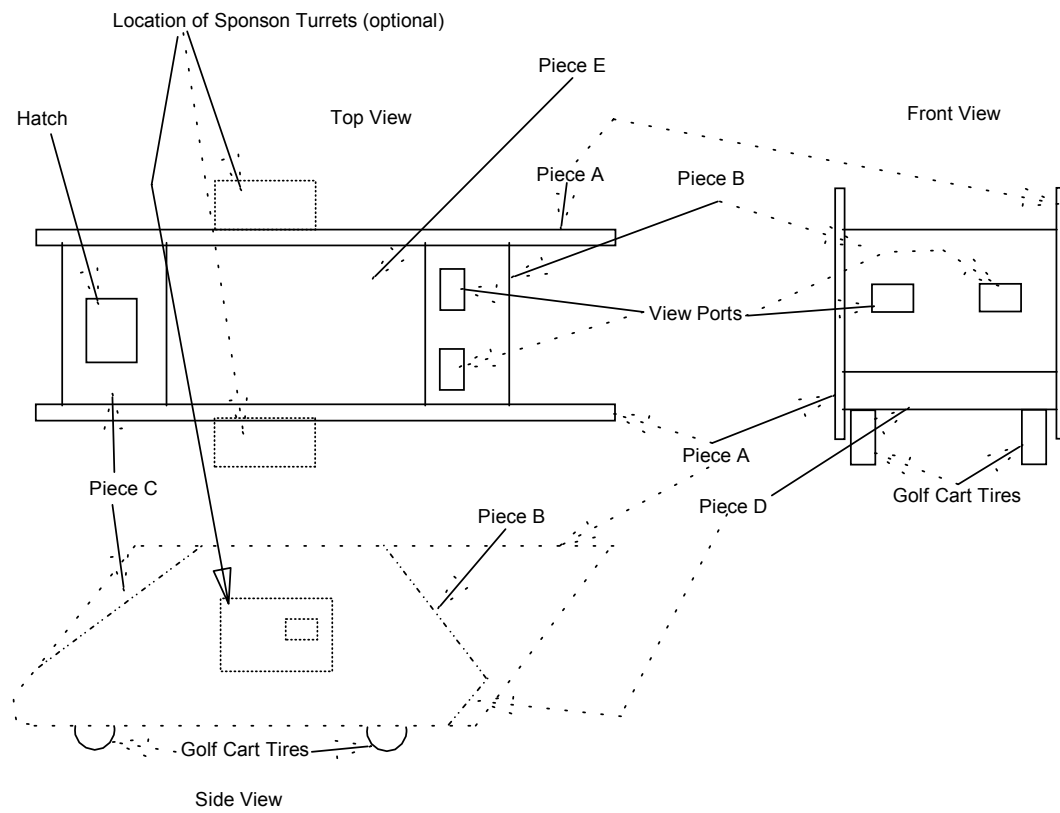
This is actually just a couple of very basic ideas or a place to start from. You can use your imagination and make it as elaborate as you want. When you start expanding the idea it would be prudent to take final vehicle weight into consideration. The perfect Assault Vehicle isn't worth much if you cannot get it to the playing field or it gets bogged down in wet or sandy soil. Although I have not attempted it, I believe one could use fiberglass cloth and epoxy (like boat hulls are made from) and fabricate a fiberglass outer shell for the PAV that would be much lighter and stronger than the plywood version. Of course it would take longer to assemble and cost a lot more.

Suggested Materials:

8 to 10 pieces of plywood or cheap paneling
Several lengths of 1" x 1" lumber
A golf cart or Max ATV
Wood screws (for fastening the plywood pieces together)
Sheet metal screws (for attaching the shell to the golf cart or ATV)
An electric drill
Drill bits and screwdriver blades for the drill
Sandpaper or sponge sanding blocks
Paint

Assembly:

See following drawings:



Early Warning Devices

An early warning device is anything that may alert you to the other team sneaking up on your position. It also can be used to startle the enemy into a panic. Early warning devices come in very handy during night games when vision is difficult.

Early warning devices come in many shapes and sizes. This one is most likely the easiest and can be the cheapest combat aids to create for paintball.

Some ideas for early warning devices:

Soda cans with strings tied to them - great for making lots of noise when someone comes by and drags it across the ground. Very effective when rocks or pennies are placed inside!

"Snaps" or whatever those little things are called - When you step on them or throw them they pop! Just throw them on the ground where they can be stepped on.

"Party Poppers" - Those amazing small bottle looking things used at new years parties. Tie one to a trip line across a path and it will go off when someone walks by with a loud CRACK! As well as some streamers to boot!

A Starter's pistol with trip line attached. When the line is pulled, the cap is fired, making a loud crack!

"Frog" motion detector. When someone walks by, the frog makes a sound.

High Tech warning devices:

Wireless Infrared motion detector - Radio Shack sells a small unit for about \$20. It can cover a wide area up to 30 feet away. It will shriek when it detects motion in the field. Radio Shack also sells a motion detector with built in flashlight for about \$15.

Personal Alarms: (the one that you pull the wrist loop out of to activate), black braided line or string and a Velcro strap or metal hook.

1. Strap the alarm to a suitable tree beside a traveled path, making sure that the wrist loop is easily pulled out by a slight tug.
2. Tie the fishing line (or small rope) to a tree on the other side of the path and run it across to the alarm, about one foot above the ground and tie it to the wrist loop.

A person walking by won't notice the line will activate the alarm when their leg pulls on the line and removes the wrist loop. Heads up, someone's coming!

Deluxe Paint-ball Fill Station

Materials:

- 2 High Pressure Ball Valves (Your Choice of size, local hardware store).
- Universal Fill adapter or On Off Valve.
- Some steel-braided or hydraulic hose (your choice of length).
- Steel “T” fitting.
- Reducers to fit all the pieces together (if needed).
- Adapter to fit hose to C02 tank.
- 1/8 inch threaded sleeve.

Instructions:

NOTE: Use Teflon tape on all fittings that are screwed together and use reducers where needed.

Work backwards from your C02 bottle that fits on your marker. Take and screw the 1/8” sleeve in the Fill adapter. Screw “T” on 1/8” sleeve. Place a ball valve on the “90” degree angle of the “T”. Use sleeve and connect ball valve on the other side of the “T”. Attach your hose to the ball valve. Attach hose to tank. Run a pressure check on the Fill Station. Note that you see that all the ball valves and connections close to your C02 bottle. This way you waste very little C02 with each fill. Always ensure that all valves are off when you attach the C02 tank. Bleed off all C02 in your tank. Close the bleed ball valve. Open ball valve to fill C02 tank, ensure you don’t over fill by using a fish scale to check the weight. Close ball valve on the bulk tank side. Unscrew the fill adapter, open bleed valve to let off C02 and “Blow down” the pressure. **Be careful, you are messing with high pressure and the C02 can burn you.**

Proxy Paintball Mine



Because of possible variances in the quality and condition of materials and workmanship used by readers, the author disclaims any responsibility for the safe and proper functioning of reader-built projects based upon or from plans or information published in these plans.

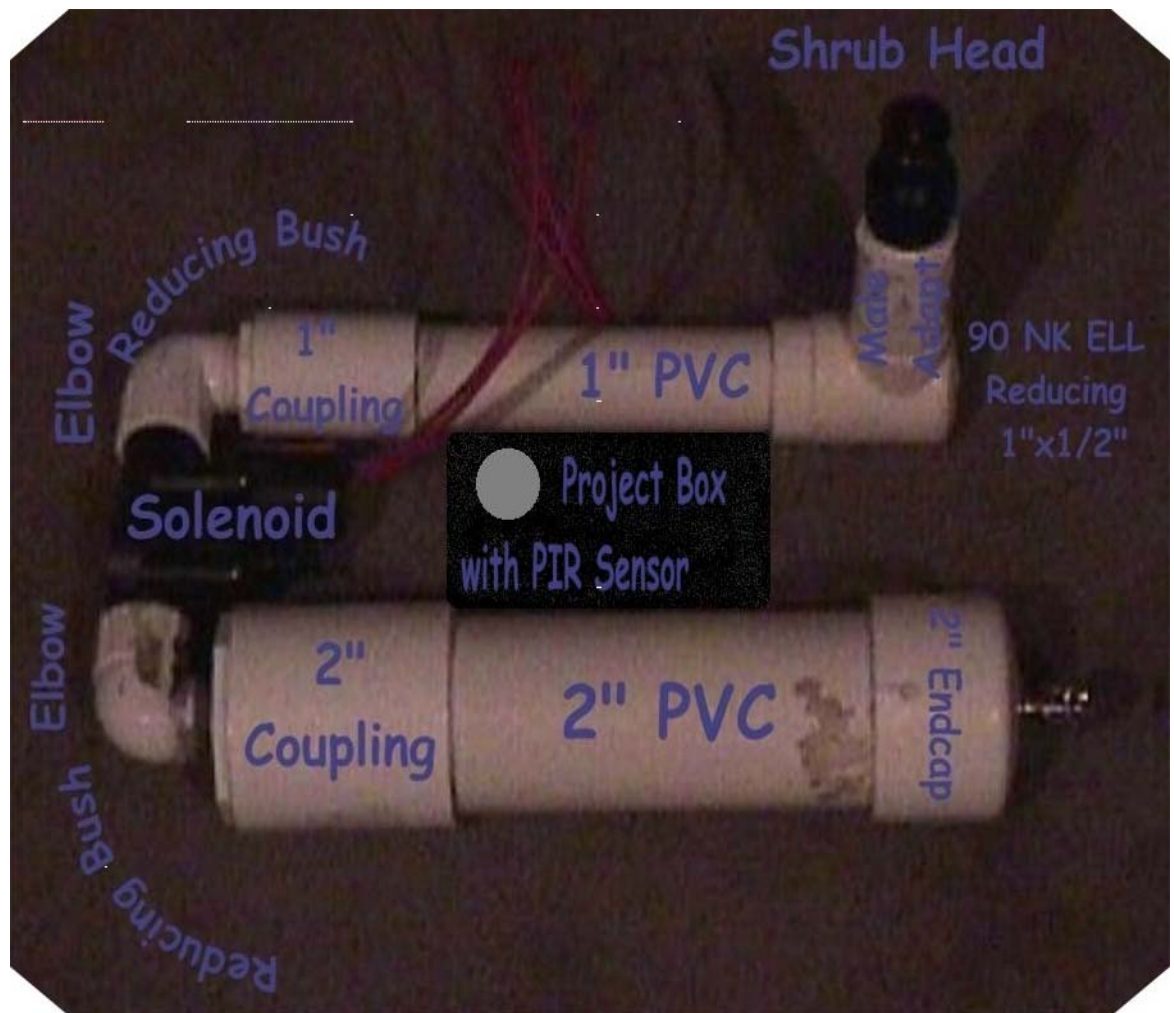
Materials:

- Two PVC Street Ells $\frac{3}{4}$ "
- $\frac{3}{4}$ " Automatic Sprinkler Valve with both male connectors
- PVC Reducing Bush 1"x $\frac{3}{4}$ "
- PVC Coupling 1"
- PVC 90 NK Ell Reducing 1"x $\frac{1}{2}$ "
- PVC Male adapter $\frac{1}{2}$ "
- 2"x8" Class 200 PVC Pipe
- 1"x8" Class 200 PVC Pipe
- $\frac{1}{2}$ "x4" Class 200 PVC Pipe
- Shrub Head Sprinkler (Rain Bird)
- Tire Stem Valve
- Clear PVC Cement
- PVC Cap 2"
- PVC Reducing Bush 2"x $\frac{3}{4}$ "
- PVC coupling 2"

Construction:

Assemble all the parts together like shown in picture #1. Note: The $\frac{1}{2}$ " pipe holds the male adapter and the reducer together. Also, **make sure** you get the direction of the solenoid right! The arrow on the solenoid should be pointed towards the sprinkler part of the mine. And if you don't like the pattern or spray of the sprinkler head, try some different ones. Actually, you don't even have to use a sprinkler head if you don't want to!

Pictures:





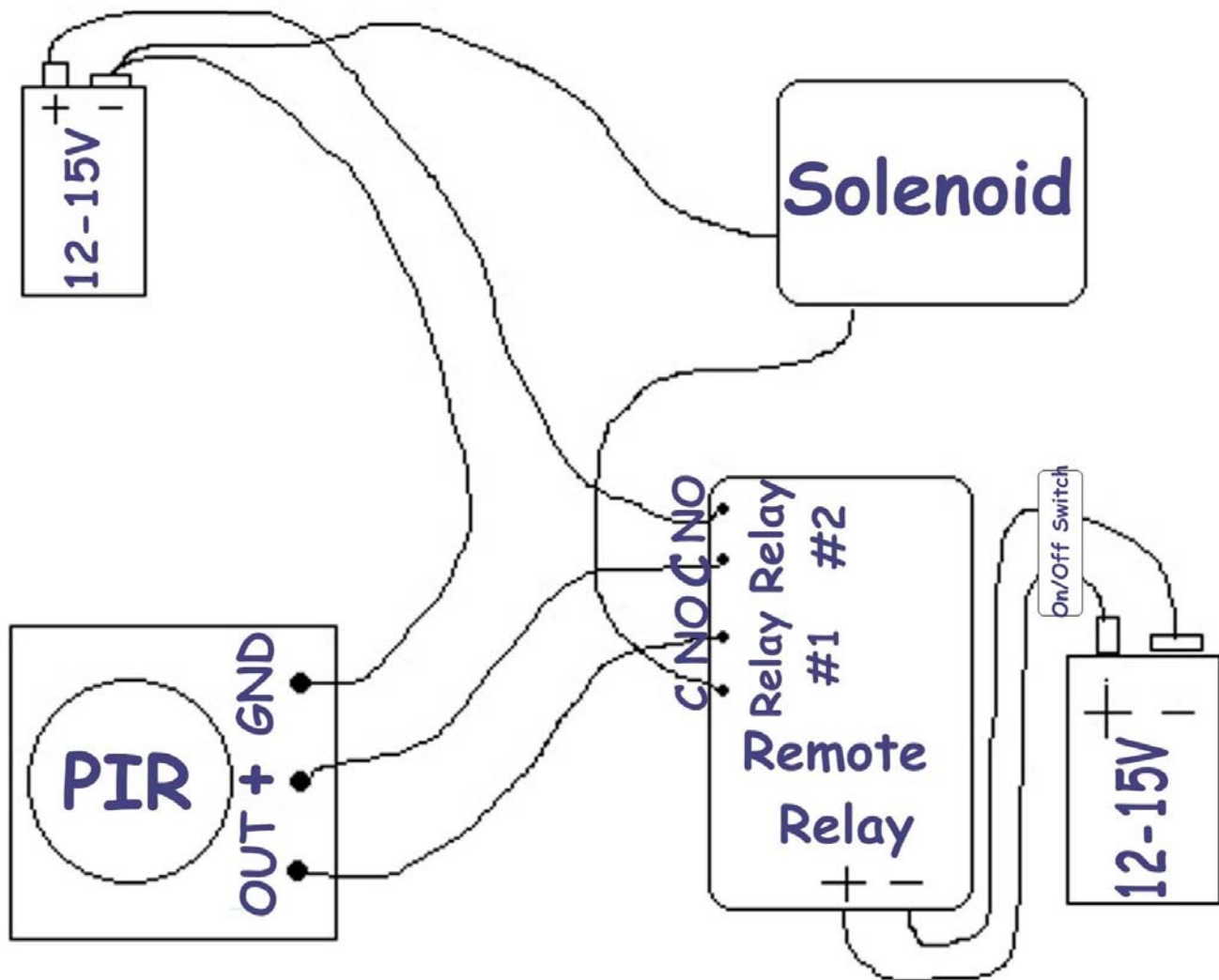
Building the remote activator:

Materials:

- A 2 Channel Remote Control Relay Kit Part # 6082-KT (Can also order extra remotes: Part # 8974-MI).
- PIR Motion Detector Module Part # 7860-KT.
- A Project Box (available at Radio Shack).

Construction:

For the parts, go to www.mpja.com to order or call 800-652-6733. The remote control relay is only a kit, you need to fully assemble it before you can make the mine work. Put together the electronics by following diagram # 1. If you want to control the sensitivity, you can put a potentiometer between the positive side of the sensor and the battery. You can also add a super bright LED to relay # 1 so you know when the mine is not activated. Once everything is put together, you can go ahead and place it into the project box with the switch, PIR sensor, and antennae glued on the outside. Make sure it's water-resistant by just sealing it with super glue because it will get wet! The box is what's holding the mine together so make sure it's very stable and secure to both sides.



Filling the mine:

You can use a bike pump, a scuba tank, or my favorite; a little hand-held filler that allows you to insert a Co2 cartridge and fill up your bike tire. The bike tire filler is made especially for bike tires and can be found any local bike shop. **Also, be sure that you do not charge (fill) it to more than 100 PSI. A pressure above 100 PSI is extremely dangerous and could kill you or one of your teammates.** Once you have it charges, you can unscrew the sprinkler head on the other side and add the paint mixture. You can make your own paint by mixing some vegetable oil and some non-staining color (Crayola water based kids paint is excellent and very inexpensive). The paint chamber does not need to be completely filled. You can try it a few times to determine the best quantity of paint for the way you plan to use the device. Once loaded with paint, just screw the sprinkler head back in place and you are ready for combat.

Using the mine:

To activate the mine, you **must** leave the second relay **on for at least a minute**. Not doing this will make the mine go crazy and spray paint all over the place just when you don't want it to! To activate the second relay, just press button # 1 on your remote. When you want the mine to really activate, press down button # 2 on your remote, making sure you're at least 10ft. away from the mine.

TRIP MINE:

Construction:

You can make a cheap trip mine that is not dangerous. First, you make a tube grenade (see plans for Grenades elsewhere in this book) that is similar to a squad buster. Grab some monofilament fishing line, a key ring, and a soldering iron or hot glue gun. While your making the grenade, take the pin (before you put it by the bearing) and solder or hot glue the key ring to the end so it looks like this O--- Then, finish the grenade. Tie a few feet of fishing line tightly around the ring on the pin.

Use:

Out to the playing field, put the grenade down pointing in the direction you want the trip mine to spray. Then, put a large rock (must be a heavy rock) on top of the grenade to hold it in place. Tie the monofilament fishing line tightly around a nearby tree or bush (it should be about a foot off the ground). Make sure the anchor rock doesn't cover the end of the grenade where the paint comes out. Then, when someone walks into the monofilament fishing line, the pin pulls out and the weight of the rock pushes the bearing off the grenade. Paint flies everywhere and you are left with an empty tube and a pissed-off opponent, or worse yet, an even more pissed-off teammate.

Super Squeegee

The Super Squeegee is a barrel cleaner that you would use between games that thoroughly cleans your paint gun barrel including any porting. None of the commercial squeegees I have used can accomplish that.

Materials:

- 2 inch PVC pipe.
- Two 2 inch PVC end caps
- 7/16-inch dowel rod.
- A 2 inch wood screw
- Yarn
- 2 screws with wing nuts (optional)
- Twine (optional)
- PVC cement
- Silicon caulk

Tools:

- Screwdriver
- Drill and small bits
- Tape measure/ruler

Construction:



Cut 2 inch PVC to a length of 13 inches.



Cut dowel rod to 12 inches



Drill a 2 inch deep hole in one end of the dowel rod.



Drill 2 holes through the side of the opposite end of the dowel rod 1 inch apart.



Drill a hole in the top of both PVC caps.



Take some yarn and wrap it around the dowel rod between the holes in drilled in the side of the dowel rod. Then run 1 -2 loops of yarn around the wrapped yarn perpendicular to the direction the wraps run through the holes.



Using the wood screw, attach the dowel rod to a PVC end cap. Then seal it with the caulk inside.



Cement the PVC cap to the 12-inch PVC section.



Drill a hole 1½-inches from the open end of the PVC section and fasten a screw and wing nut in that place. Also put a screw and wing nut on the other PVC cap.



Tie a loop in each end of a piece of twine and slip the loops under the wing nuts and tighten. Seal the inside of the PVC cap and PVC pipe section with caulk.

Instruction For Use: Fill the Super Squeegee with water that has a little dish detergent in it. After games remove the barrel of your gun and use the dowel rod inside to clean it. The PVC cap with the wing nut is for closing the squeegee to keep the water inside. After you clean your barrel, run a commercial squeegee, paper towel or Kleenex through it to dry the water out. I know this seems like a waste of time, but it completely cleans your barrel of paint including any ports or suppressors.

Rim Fire Suppressor:

Rim Fire Suppressor Disclaimer

The manufacture or possession of firearm silencers is ILLEGAL without proper federal, state, and local authorization. The information herein is presented for academic study only.

Materials:

You will have to use Sub-Sonic rounds. However, it is a very simple and easy project.

1. 1 Plastic Bottle Cap (Water Bottle cap works well)
2. 1- $\frac{3}{4}$ inch piece of PVC pipe 7" long
3. 1- $\frac{1}{2}$ inch piece of PVC pipe 4"

Putting it together:

This plan is for a Ruger 10/22, but will work with any rim fire weapon. Depending on the size of your barrel you might need to adjust the size of the PVC pipe.

1. Cut and sand PVC pipe
2. Cut notch in $\frac{1}{2}$ " PVC to fit over sight. A sharp knife, or jig saw will work
3. Sand $\frac{1}{2}$ " PVC were it will fit inside ($\frac{1}{4}$ " to $\frac{1}{2}$ ") the $\frac{3}{4}$ " PVC and have a tight fit
4. Clean, Prime, and glue PVC together. Give time to dry completely
5. Take bottle cap and secure over the end of the $\frac{3}{4}$ " pipe with electrical tape
6. Now slide and lock over the end of your barrel
7. Your first shot will cut the hole in the bottle cap After 20-30 shots you will need to re-tape or replace bottle cap.

NOTE: Have fun and Be Careful. Remember if you decide to make this device, weapon silencers are **ILLEGAL** without proper federal, state, and local authorization. Use for reference ONLY.

Paintball Internet Community Listings

***Paintball Newsletter & other goodies (free)**

This site is loaded with all kinds of information for the novice to the Pro. One of the very best sites dedicated to the sport.

<http://www.p8ntballer.com>

*** PaintballGear.com, 4,000 Paintball Items**

Action Village's PaintballGear.com is one of the world's largest paintball stores. Over 4,000 paintball products in stock.

<http://www.actionvillage.com>

*** Paintball Magazines at MagazineCity.net!**

No searching! Click here for savings of up to 92% on over 1,500 magazines at MagazineCity.net! Lowest legal prices, free gift cards, worldwide delivery and the truth about free trials!

<http://www.magazinecity.net>

AWOL Paintball Renegade League

League from the Thomasville, GA area. Articles, pictures, news and links.

<http://www.dlsweb.com/chris/paintball>

Back Yard Paintball

Reviews, strategy, news, and pictures.

<http://www.geocities.com/backyardpaintball>

Blake's Paintball Page

Some information on the author and his team.

<http://members.aol.com/lohubb/PAINTBALL.html>

Carl's Paintball Page

Massachusetts based recreational team. Includes pictures of players, markers, and Automag information.

<http://www.geocities.com/Pipeline/Jump/1120>

Chris and Paintball

Pictures of the author's favorite markers, a bio for the author, links, non-paintball quotes, and a section about the Georgia Tech. Yellow Jackets.

<http://www.chris-and-paintball.com>

Cocker World

Information about the author, his friends, and his team, newbie help, autococker information, links, and pictures.

<http://www.cockerworld.8k.com>

Cooly J's Paintball

Pictures, information on getting started, and strategies.

<http://p8ntman.tripod.com/paintballing>

Doug and Bob's Extreme PaintBall

Paintball movies, video clips, marker reviews, chat, and event, field and store listings for Spokane Washington.

<http://www.dougbob.com>

Dustin's Paintball Adventure

Pictures of marker, author's stories, playing tips, rules of paintball, and a classified section.

<http://www.angelfire.com/in3/dustypaintballs>

Everyone Loves Paintball

author information, links, and some pictures.

<http://msnhomepages.talkcity.com/StrategySt/worrgame/inde...>

Exile Paintball

Reviews, videos, stories, message board, and pictures.

<http://server42.hypermart.net/paintballexile>

Florida Heat

Rantings, pictures, and links.

http://warped1__1__1.tripod.com/floridaheat

Haulin' Ace

News, pictures, stories, forums, and reviews.

<http://haulinace.50megs.com>

Jacyl's Paintball

Message board, team and field listings for New Mexico and surrounding states, basic paintball accessory information, information on Team Wolfpack, and chat.

<http://lightning.prohosting.com/~jacyl>

Jeremy's Paintball Shrine

Stories, jokes, pictures, and links.

<http://www.geocities.com/paintballwarz456>

Jettyboy's Personal Web Page

News and forums about Automags. Pictures and links are also listed.

<http://www.angelfire.com/pop/jettyboy/mainpage.htm>

Josh's Paintball Site

Gun and field of the month, links, and pictures.

<http://www.angelfire.com/fl2/joshpaintball>

Just Paintball

Strategy and safety tips, reviews, pictures, and links.

<http://www.angelfire.com/sc/hoodlumspage>

Lancaster Paintball

Guns, pictures, and a guide to many fields in the northeast.

http://members.tripod.com/paint_man

Michael's Paintball Information

Descriptions of markers and links.

<http://www.angelfire.com/games/paintball25>

OneTrueBill

Information on the author, the author's team (Black Diamonds), descriptions of guns, and links.

<http://www.itsmysite.com/onettruebill>

Paint Flingers

Paintball videos, reviews and pictures.

<http://www.geocities.com/PaintFlingers>

Paintball

Pictures and links.

<http://www.angelfire.com/ga2/paintball85/index.html>

Paintball and Go-Karts

All about the author's two favorite hobbies.

<http://www.geocities.com/flastate75/index.html>

Paintball Carbine Mods

Information on carbines, paintball web rings, pictures of the JT girl, featured sites, and many links.

<http://users.lewiston.com/jspharm>

Paintball Domain

Equipment reviews, general information about the sport, strategies for beginners, links, and safety information.

http://members.tripod.com/Paintball_Domain/index.htm

Paintball Emporium

General information, guns, links, and online games.

<http://www.geocities.com/Colosseum/Loge/4039>

Paintball Mania

Many links for paintballers.

<http://www.geocities.com/FashionAvenue/Stage/4359/Paintba...>

Paintball Master

Paintball information and shockwave games.

<http://pbmaster.tripod.com>

Paintball Nervana

Tips and suggestions, as well as a message board and chatroom aimed at new players.

<http://chameleon560.tripod.com/PaintballNervanna>

Paintball Rolla

Find a place to play in Rolla MO. Instructions on anodizing and how to fill a CO2 tank.

<http://stormloader.com/robert>

Paintball-Extreme

Information on markers, equipment and the sport.

<http://www.geocities.com/badger420777>

Paintballer Dan

Information about the author, tips and hints, pictures, marker reviews, and links.

<http://geocities.com/Pipeline/Cliff/1778>

Paintballin

Pictures and links.

<http://www.geocities.com/thisuks/kickasspaintball.html>

Patrick's Paintball Page

Information about the sport of paintball, links, game types photo gallery, information for first time players, marker reviews, and information on other equipment.

<http://exit3.i-55.com/~phenchy>

Pball68 Paintball Page

Information and pictures of the author's marker.

<http://home.nycap.rr.com/pball68>

Sean's Paintball Village

Pictures, reviews, GA field listing, and links.

<http://seanp.c.tripod.com/seanspaintballvillage>

Stickball HeadQuarters

Links to paintball cartoons.

<http://www.angelfire.com/oh4/redreign>

Stingray Zero

A site all about the Brass Eagle Stingray. Information, pictures, and message board.

<http://www.geocities.com/stingrayzero>

The Paintball Connection

Tips, reviews, news and information, and tournament information.

<http://home.adelphia.net/~ajake>

The Rhino's Wed Domain

Includes information about our paintball team, articles, strategies, and tactics about paintball.

<http://netvigilante.tripod.com>

The Sarge Files

Collection of newspaper and magazine articles by Bob "Sarge" Shano. Gallery of photographs and a chronicle of the history of paintball.

<http://www.pcpages.com/sargefiles>

Tim's Crappy Paintball Page

Pictures and information on many guns.

<http://www.geocities.com/Yosemite/Cabin/5644>

Tuff Guy Paintball

General information, reviews, prices, and links.

<http://www.angelfire.com/co2/tuffguypaintball>

Turtle Creek Swamp Warfare

Site features free e-mail, chatroom, and member sign-up. Also a section to post your artwork.

<http://www.tcballers.8k.com>

Xtreme Paintball

Features photographs from various tournaments in the Gulf Coast area by Abel Longoria.

<http://www.xtremepaintball.cc>

Notes:

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