

AI6US Antenna Launcher

All launcher parts are purchased local and you should be able to assemble in a few hours, then let PVC joints cure for a day. Sierra Pipe, Home Depot and Ace Hardware had all parts. I would go to Sierra Pipe first.

- ⇒ 16" Schedule 80 - 4" pipe
- ⇒ 24" Schedule 40 - 2.5" pipe
- ⇒ 24" Schedule 40 1" pipe (ram rod)
- ⇒ 3" Schedule 40 - 1" pipe
- ⇒ 4" Schedule 40 Cap
- ⇒ 4" Schedule 40 Slip to Thread
- ⇒ 4" male to 2" female threaded reducer
- ⇒ 2" male to 1" female threaded reducer
- ⇒ 2x 1" to 1" threaded coupler
- ⇒ 2x 1" slip to 1" thread 90 degree
- ⇒ 1" female to 1.5" male threaded reducer
- ⇒ 1.5" female thread to 2.5" male slip
- ⇒ 2x 2.5" female slip coupler
- ⇒ Rainbird Irrigation Controller 1" female threaded in/out
- ⇒ 1/4" NPT tank valve
- ⇒ 1/4" NPT 100lb air pressure gauge
- ⇒ 1/4" NPT 90 degree
- ⇒ 2x 1/4" NPT to 1/4" NPT
- ⇒ 1/4" FNPT to 1/4" FNPT shut off valve
- ⇒ 1/4" NPT to 1/4" FNPT 90 degree
- ⇒ 1/4" NPT air nozzle (removeable tip)
- ⇒ teflon tape
- ⇒ PVC primer
- ⇒ PVC glue
- ⇒ Epoxy Glue
- ⇒ Open fishing reel
- ⇒ 350' 15-20lb braided fishing line
- ⇒ tennis ball
- ⇒ 2x 3" hose clamps

Unscrew the Rainbird solenoid. Remove the 6 screws securing the diaphragm top and drill/tap center of the diaphragm cover for the 1/4" NPT air nozzle trigger release. Glue the removed solenoid air pass-through holes with epoxy. Reassemble the diaphragm and secure with the 6 screws.

Use teflon tape (or pipe dope) on all threads.

After 24 hours pressure test. Start with 20lbs and increase pressure 10lbs each test until reaching max of 50- 70lbs. At 50lbs, the tennis ball sailed away never to be found. :)

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Best Regards!
Brian Gohl - AI6US

