Most Common Components

a) ALU501CB – Connecting Band
b) ALU541S – Stop piece
c) ALU502H – Hanger “straight”
d) ALU500PH – Hanger “90degree” 16mm
e) ALU503A or 509A – PolyRail Punch tool
f) T-Base Tool – Hand tool for inserting nozzle
g) VSWIA125 – Swivel connector
h) VMIA05025 – Mipt x Insert adaptor
i) VCAPT – Threaded cap w/washer
j) TTC16 – 16mm Tube Clip w/fir tree barb
k) ITF075SL16 – Easyloc fitting
l) ITV075SL16 – Easyloc valve
m) PEIC16/ PEIC25 - Barb repair coupling
n) KK-__ Kwik Klamp / KS-__ Kwik Spacer
o) ALUSC - PolyRail Riser cap w/ J-hook
p) ALUSB - PolyRail Riser base
q) JR-807L /808L - Anti-Drip device w/Cleanout
r) JR-__ JETRain Nozzle (White / Blue / Red / Yellow)
s) AYFIL-_______ - Filter
t) SVB-__-__ - Solenoid valve
u) MT-__ / MTA-__ - Water metering valve
v) Autovalve irrigation/Misting Controller 9vdc
w) MT-02 / MT-08 - Mist-Time Misting Controller
x) RPIC-__ - RainPro Irrigation Controller

When ordering parts you may need to call or refer to Dramm Catalogue for exact part numbers.
i. Familiarize yourself with parts received by going down parts guide supplied

ii. Layout the 12' lengths of Aluminum PolyRail

iii. Attach connector band (a) to join the rails together using 2x 8mm stainless screws provided

iv. When using hanger (c) this needs to be attached to I-Beam rail at the same time as when process iii is being connected. 1 hanger is required every 12 feet to position rail in a downward position

v. When using hanger (d) these snap on outer side of rail, from I-Beam to one “C” point, spaced 12 feet apart to position the rail sideways at 90 degrees

vi. Layout polyethylene tubing beside rail, let tubing warm up a bit first if stored outdoors, this eases the insertion process into the rail

vii. Start inserting the polyethylene tubing from one end only, tubing should snap into rail. If using our 25mm tubing, it is important that you use the printing on the tubing as a guideline to keep straight in the rail. Keep print between the 2 points of the “C” to eliminate twist in tube.

viii. Now that tube has been inserted we are now ready to insert holes into the polyethylene tube. Use Punch tool (e) which is designed to fit the PolyRail profile. Your first hole punch into tubing should be 4” – 6” from the end of bench/bed, slide punch tool (e) on I-Beam keep tool snug against aluminum profile when punching hole. Keep repeating this process the length of the line, IMPORTANT: THE PUNCH KNIFE HAS A HOLLOW CORE IN THE CENTRE, BE SURE THAT THE CORE IS ALWAYS CLEAN

ix. Hang Rail, Hangers (c or d) should be spaced approximately 10’-12’ apart there may be some exceptions when using a bench riser sys.

x. Stop piece (b) now gets installed in front of the first hanger by sliding onto I-Beam, tighten directly beside hanger using 1x 8mm stainless screw provided, this gets repeated for the last hanger as well where it gets placed behind the hanger. This prevents the line from sliding off the hangers when the water is turning on and off.

xi. Insert Nozzles (r) into polyethylene tubing by using the supplied T-TOOL (f), this prevents any damage to the nozzle and nozzle tip. 180 degree nozzles are inserted at either end of irrigation line, between both ends are the 360 degree nozzles. CAUTION: Insert nozzles carefully and straight to prevent damage to hole. If not inserted correct you may experience leaking from behind the nozzle.

xii. Connect line to water supply using the proper filtration (s)

xiii. FLUSH OUT LINES BEFORE ATTACHING END CLOSURES

xiv. Attach Male insert adaptor (h) or Easyloc fitting (k) with threaded cap & washer (i) to end of line

xv. Run system
Assembly of Bench top PolyRail System

Refer to the supplied generic drawings with each project.

- Fasten aluminum bases (p) offset to table top center, the one fastener hole should be center of the bench. Fasteners are NOT supplied with system.
- Assemble rail as described on previous page, while rail is lying on bench top, it is recommended to use the hole punch tool (e) to insert the nozzle holes, but NOT recommended to insert nozzles until rail is hanging from alum risers.
- Insert riser posts into bases (p)
- Attach aluminum caps (o) with J-Hook to the tops of alum risers
- With help from someone, lift assembled PolyRail from bench top and attach the hanger to the J-Hook.
- Once Rail is hanging from risers, now you can go ahead and insert the irrigation nozzles (r), attach fittings to either end of irrigation line (g & h).
- Install supply feed manifold to the misting line as per drawings supplied with project.
- **DO NOT FORGET TO FLUSH IRRIGATION LINE BEFORE USE**
JETRain Nozzle System

Water leaking from behind nozzle
Nozzle was not inserted into hole straight, an egg-shape hole was created that now requires a repair.
BLANK3 (goof plug) can be used
If hole is too big for a BLANK3, pull 12-18” of poly from rail on either side of leaking hole, cut poly and insert 2 repair couplings (PEIC16PEIC25) as seen in photo
Snap poly and couplings into aluminum PolyRail
Re-punch hole with Tool (503/509)
Re-insert nozzle

Nozzle not misting
Pressure too low to open nozzle diaphragm
Not enough volume of water in system

Nozzle only partial misting
Pressure too low
Check deflector pin for any defects
Replace pin if necessary
Check ADV on nozzle for plugging
Replace or clean ADV

Nozzle dripping while misting
Check deflector pin for any defects
Clean deflector pin
Replace pin

Nozzle dripping when OFF
Debris lodged between diaphragm and seat in ADV
Clean diaphragm in Anti-drip valve
**PolyRail general Trouble shooting guide**

- **Solenoid Valve not closing**
  - Debris is lodged between diaphragm and valve seat inside valve
  - Remove cap & diaphragm from valve, clean debris from seat and diaphragm.
  - Re-assemble valve

- **Solenoid Valve not opening**
  - Check 24vac coil on valve
  - See if plunger is being pulled in when electrical current is activated
  - If plunger does not get pulled in, check the wiring or a new coil may be required
  - Check adjustment on flow control knob that is on top of valve

- **Solenoid Valve manual & Automatic operation**

  ![Diagram of Solenoid Valve](image)

- **Tube Clip Set-up**
  - Drill ¼” hole x ½” deep
  - Push/insert tube clip barb into hole
  - Turn clip to suit

- **Easyloc fittings**
  - Fitting has a reverse thread
  - Thread nut as far as it will go, do NOT remove nut from fitting
  - Attach fitting to Polypipe, push Polypipe on fitting as far as it will go
  - Reverse thread fitting nut over Polypipe, hand tighten only