








Table 1		PVC Length per part
 1/2" PVC pipe – 10 ft x 2 needed (all pieces below cut from this)		
Part	Length (in)	# needed
1L/1R/2L/2R	22"	4
1M _A	4"	2
1M _B	9 1/2"	1
1M _C	2"	2
2M	20"	1
3L / 3R	8"	2
4L / 4R	6"	2
5	9 5/8"	1

Table 2		Materials
Joint	Size – 1/2"	# needed
A	 3 way elbow	4
B	 90° elbow	2
C	 45° elbow	2
D	 Tee	2
E	 Cap	4
Seal	 PVC cement	1

1. Gather all materials and tools together.
 - a. 10 ft - ½" PVC pipe x 2 (total length needed = 170 ft)
 - b. Joints and caps (total = 14)
 - c. PVC cement – (8oz makes > 50 frames. Primer not needed)
 - d. Cutting tool (pipe cutter or saw)
 - e. Marker
 - f. Measuring tape
2. Measure PVC pipe lengths as described in Table 1 and cut.
3. Assemble PVC pieces and joints together as in Fig 1.
 - a. Tee joint should be perpendicular to 1L/1M/1R and parallel to 2L/2R, as shown in pic.



- b. (*TIP*) – Assemble entire frame prior to sealing to make sure of proper fit/size. Mark straight lines across each Joint–Pipe connection. This will help to align pieces together properly while sealing. This is especially important for the top angled portion of the frame to be properly angled/aligned when sealing. It will also be helpful to number each Joint–Pipe connections as to not be confused. See below



4. Begin sealing. Use gloves. Ensure proper ventilation.
 - a. Place small film of PVC cement on inner portion of joint and outer edge of pipe. Align marked lines together and press pipe into joint. Hold in place for ~30sec to dry. (Primer not needed)
 - b. **Once cement has dried, it cannot be removed/changed**, so be sure to be absolutely sure of connections/alignment prior to sealing.