

Parts List

Quantity	Item
1	MSM-X250 Nozzle (available at www.MakeSnow.Net)
2	MSM 0204 Nozzles (available at www.MakeSnow.Net)
1	MSM – X2A Nozzle (available at www.MakeSnow.Net)
1	22mm to ¼" NPT fitting (available at www.MakeSnow.Net)
2	¼" NPT Street Elbow – 90 degrees (rated to at least 2000psi)
2	¼" NPT Female T- fittings (rated to at least 2000psi)
2	¼" NPT Female Elbow – 90 degrees (rated to at least 2000psi)
3	¼" X 1" close nipple fittings (rated to at least 2000psi)
1	¼" NPT Female to 1/8" NPT Male Bushing (rated to at least 2000psi)
1	Roll of Teflon Tape
1	¼" NPT female thread Compressed Air Quick Connect
1	Piece of Metal to mount the snowgun on.

Assembly

Connect the parts together as follows. Always put at least three layers of Teflon tape on the male threads before attaching the fittings together, including the threads on the nozzles. Refer to the Diagram on the last page for details.

- 1) Attach the *Street Elbow* to the end of one *T-Fitting*



Dealing with high pressure water and air is dangerous, never point water towards people or pets, always use fittings rated for the pressures used. Wear eye and hearing protection at all times. Makesnow.net is not responsible for any damages or injury.

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- 2) Take a second *T-Fitting* and attach the *22mm to 1/4" NPT Fitting* in the perpendicular outlet of the *T-Fitting* (that is, if you were to place the *T-fitting* so it looked like a T, you would be attaching the *22mm to 1/4" NPT Fitting* to the bottom)



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- 3) Attach the parts from steps 1 and 2 together with a close nipple.



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- 4) On the bottom T fitting connect a ¼" X 1" close nipple and a ¼" NPT Female elbow



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- 5) On the open threads from the elbow in step 5, attach a second $\frac{1}{4}$ " X 1" close nipple and the second $\frac{1}{4}$ " NPT Female elbow.



- 6) Attach the $\frac{1}{4}$ " X $\frac{1}{8}$ " bushing to the exposed threads in the elbow from step 5.
- 7) Attach the two MSM0204 nozzles to the exposed threads at the top of the snowgun.



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- 8) Take the air quick connect fitting, ¼" Street elbow and attach them together



- 9) Take your mounting bracket and correctly set it up so that the MSM-X250's water mist will be intersected as closely as possible by the air from the MSM-X2A's stream. This is the most important part of building an external mix snowgun, the nozzles must be as close to perfectly aligned as possible or the snowgun will not make snow. We are happy to answer questions about building snowguns, however because of the volume of questions we received about the alignment of external snowguns in the past we are unable to provide answers on how best to align these nozzles. We offer pre-made external mix snowguns if you question your ability to attain the correct alignment.



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Start Up Procedure

To start up your combo gun follow these steps, complete each step before you move on to the next step:

- 1) Check the wet bulb temperature so it is less than -1C or 30F (or the dry bulb temperature is below -2C or 28F)
- 2) Lay out your hoses where they will be during the run
- 3) Connect the water hose to the faucet.
- 4) Turn on the air compressor
- 5) Attach the end of the water hose to the snowgun
- 6) Attach the air hose to the snowgun
- 7) Connect the air hose to the air compressor
- 8) Turn on the water at the faucet
- 9) Turn on the pressure washer.
- 10) Make Snow!

Shut Down Procedure

To shut down your MSX-250 follow these steps.

- 1) Turn off pressure washer
- 2) Turn off the water and disconnect the water hose at the faucet.
- 3) Turn off air compressor
- 4) Disconnect gun from hoses
- 5) Drain Hoses
- 6) Store hoses, pressure washer, and snowgun in an area which will not allow them to freeze

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