

Rotate the suction tube until the exhaust of the blower is pointed to the back of the bench. Screw through the inside of the suction tube into the 4 pieces of 2x4 attached to the bottom of the bench top.

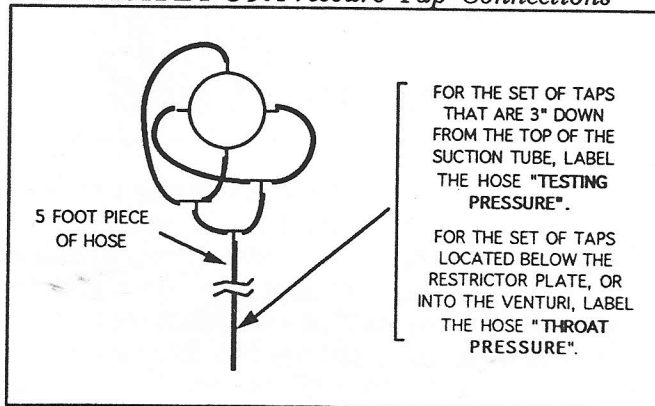
### MOUNTING THE SUCTION FAN

If you are using the suction tube supplied with your leaf blower you just completed this task. If you are using a different suction fan you need to connect it to the suction tube. Since this connection occurs after the sensor it is quite insensitive to leaks and the type of connection you are using. However you should try to limit the number and severity of bends. Minimizing these factors will allow you to generate greater testing pressures. Use 4" PVC pipe, sheetmetal ducting, or whatever is required to connect the suction tube to the suction fan. Make sure whatever you end up fabricating is securely fastened and safe for operation.

### PRESSURE TAP CONNECTIONS

Multiple taps are used to give us an average pressure reading. You will be joining both the "Testing Pressure" and "Throat Pressure" taps the same way. Use 1/8" vacuum hose to connect the taps as shown in diagram 39.

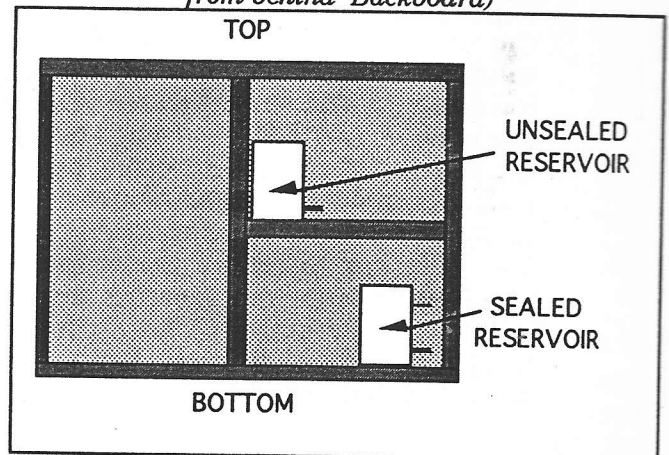
DIAGRAM 39: *Pressure Tap Connections*



### MOUNTING THE RESERVOIRS

Place the reservoirs behind the backboard as shown in diagram 40.

DIAGRAM 40: *Mounting the Reservoirs (View from behind Backboard)*



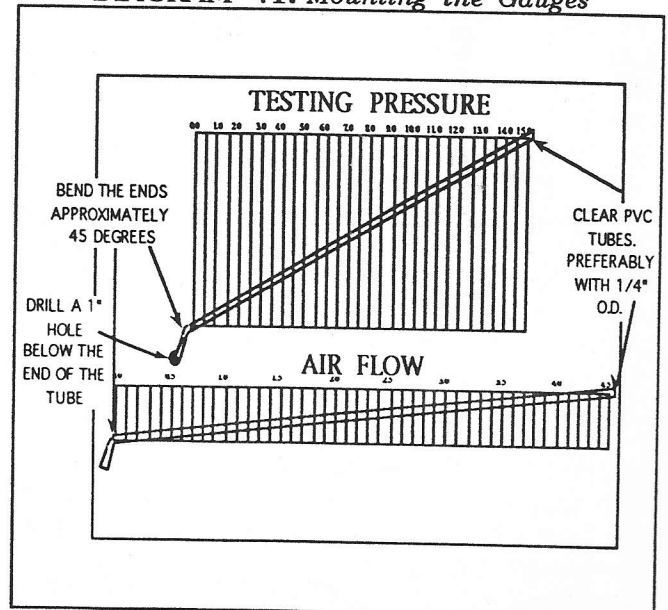
### MOUNTING THE GAUGES

Cut two pieces of clear, rigid PVC 1/4" O.D. pipe to the following lengths.

- If using the backboard shown in diagram 11A, cut them to 52" and 36".
- If using the backboard shown in diagram 11B, cut them to 52" and 45".

Next warm the ends of the pipe with a hairdryer. Bend the last inch approximately 45 degrees. Mount the tubes on the backboard as shown in diagram 41.

DIAGRAM 41: *Mounting the Gauges*



Slip a piece of 1/4" I.D. clear vinyl hose over the bottom end of the clear "airflow" PVC tube. Connect the other end of the hose to the lower nipple of the sealed water reservoir. Place a piece of 1/4" I.D. clear vinyl hose over the bottom end of the clear "testing pressure" PVC tube. Connect the other end of the hose to the lower nipple of the unsealed reservoir. Use hose clamps to secure the ends of the vinyl tubing. Route the "Testing Pressure" vinyl hose through the 1" hole cut in the backboard. Connect the vacuum hoses as shown in diagram 42.

Make sure you route the vacuum hoses up and over the top of the backboard. This will help prevent the liquid from being "sucked" out of the reservoirs. This is particularly important when using a high powered fan.

DIAGRAM 42: Vacuum Connections

