AIRMADA™

AIR-JET POWER TO DRY YOUR SHOWER

Installation Manual

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Blower Motor & Manifold Installation

1. Determine the location to install the AirMax high-performance blower motor. The motor is powerful enough to be installed up to 120 feet away from the Airmada manifold and shower space. Using the provided mounting bracket, the blower can be installed vertically or horizontally. The blower needs to be accessible should it need to be serviced. If choosing attic placement, check your specific insulation guidelines to see if a blower motor can be installed in that space. (*See Figure 1.*)

2. Install the Airmada manifold above the shower space and behind the ceiling. For even airflow distribution, install the manifold near the center of the shower space. Using the supplied 2" C-clamp, affix the manifold to the nearest wood stud. You may need to fasten an additional section of 2x4 to accommodate the manifold location. For wall installation, additional tubing may be required to connect the manifold to each nozzle. (*See Figure 2 for sample installation.*)

Figure 1


Figure 2

Blower Motor & Manifold Installation (continued)

4. Connect 2” Schedule 40 PVC pipe (not included) to the Airmax blower motor. When connecting the PVC to the blower motor, fasten the supplied 2” rubber coupler to limit movement and noise. (see figure 1 Make sure not to install the coupler too close to the blower motors air intake, which is just outside of the connecting port. (See figure 1 on previous page) Run the piping through the wall cavity and connect it to the 2” PVC manifold. Use supplied 2” clamp to eliminate PVC movement and secure properly.

Figure 1

5. For standard 6-nozzle configurations, seal the Airmada manifold at the opposite end using the included 2” PVC cap, unless provided with a closed end manifold.

6. For configurations using more than 6 nozzles, you will be provided with a larger manifold to accommodate the nozzles. If not using all of the ports provided in the manifold, glue the provided manifold plug into the ports not being used.

Figure 2

Nozzle Installation

1. Prepare nozzles for installation. Each nozzle has four threaded holes to use with screws to attach to the shower space's framing. Only two holes will be used for installation. Screw in the supplied white rough in nozzle plugs, these will be helpful in determining the mounting depth of the rough in nozzles and keep debris out of the nozzle threads.

2. Rough-in nozzle depth is important. Before installing rough-in nozzles, you must know your finished tile, thin set, cement board, etc. thicknesses. Once this is known, you can determine your rough-in nozzle depth mounting location. The white rough-in nozzle plugs must be flush or protrude from your finished tile. As long as the white rough-in plug is flush or protruding, then your nozzle trim will fit. If you see the brass rough-in nozzle protruding it won't. The diameter of the white rough-in plugs is 1 ¼" and the diameter of the nozzle trim face is 1 ¾". For drilling tile holes, the hole drill bit size should be at least 1 ¼", possibly as much as 1 3/8"

3. Here is another way to think about mounting the rough in nozzle. Locate the notch and flat space at 1/2" mark on the nozzle. Align this with the bottom edge of the 2x4 framing. This will be the 1/2" drywall mounting point, allowing for 1/2" ceiling material. For thicker ceilings, mount the nozzles lower on the framing. (*See Figure 1 and Figure 2.*)

4. The rough in nozzle must be deeper in the wall to ensure that the finish piece will be able to screw into the rough in nozzle and ensure a flush finish. Notice also the directional nozzles need to be an additional ¼" of room. The rough in nozzle for a directional must sit at least ¼" deeper into the wall. Deeper meaning under the finished tile or wall final finish.

Tubing Installation

1. Insert supplied 3/4” clear hose over each nozzle’s barb fitting. Using a heat gun (optional), slowly heat the end of each to allow for easier installation. (*See Figure 1.*)

2. Run tubing from each nozzle to a corresponding barb fitting on the Airmada manifold. If possible, try to run equal lengths of tubing from each nozzle to the manifold. Avoid introducing kinks into tubing and use supplied 90-degree fittings if necessary to ensure unrestricted airflow. (*See Figure 2 for sample installation.*)

3. Use supplied double wire clamps to secure tubing to barb fittings on nozzles and manifold. Open the clamps with a pair of pliers, slide the clamps over the tubing, and release pliers to tighten. Additional clamps are available if needed. (*See Figure 1.*)

4. *NOTICE*: In extremely hot attic spaces, tubing may become pliable and fall limp, restricting airflow. Plumber’s tape is recommended in this situation to avoid sagging.

Figure 1

Figure 2

Relay, Switch & Electrical Installation

1. **WARNING**: For the following steps, Airmada recommends using a qualified electrician to complete relay and timer installation. Improper installation could result in serious physical and/or property injury. Any installation and maintenance for electrical components must be done with the power supply turned off or disconnected. Otherwise, there is danger of electric shock.

2. Install a standard 110V receptacle next to the Airmada blower motor.

3. Install the supplied relay in a 4” by 4” steel box and complete wiring. (See Appendix A for wiring diagram.)

4. Using the recommended relay diagram, Airmada should be compatible with all major timer switches. The relay enables low-amperage timer switches to work with the high-amperage Airmada AirMax blower motor.

5. Install the supplied timer switch in the desired location in the bathroom.

6. Connect the timer switch to the 4” by 4” steel box using electrical wire (not included; 14/3 wire is recommended). To ensure proper installation, we recommend using a qualified electrician. Check local building codes before installation.

Finish Nozzle Installation

1. *IMPORTANT*: Do not use any tools to install finish nozzles. Tools can scratch finish nozzles and void warranty.

2. Once remaining shower interior has been finished, remove white rough-in plu and discard. If necessary, use 1/2” plumbers pipe brush to clean debris from threads.

3. Carefully screw in decorative finish nozzle caps into each nozzle. Set flush with ceiling. DO NOT use any tool to screw in, tighten with hand only.

4. For adjustable nozzles, use supplied adjustment tool to direct airflow to desired location and pinpoint areas that require direct airflow. Hand-tighten to finish installation.

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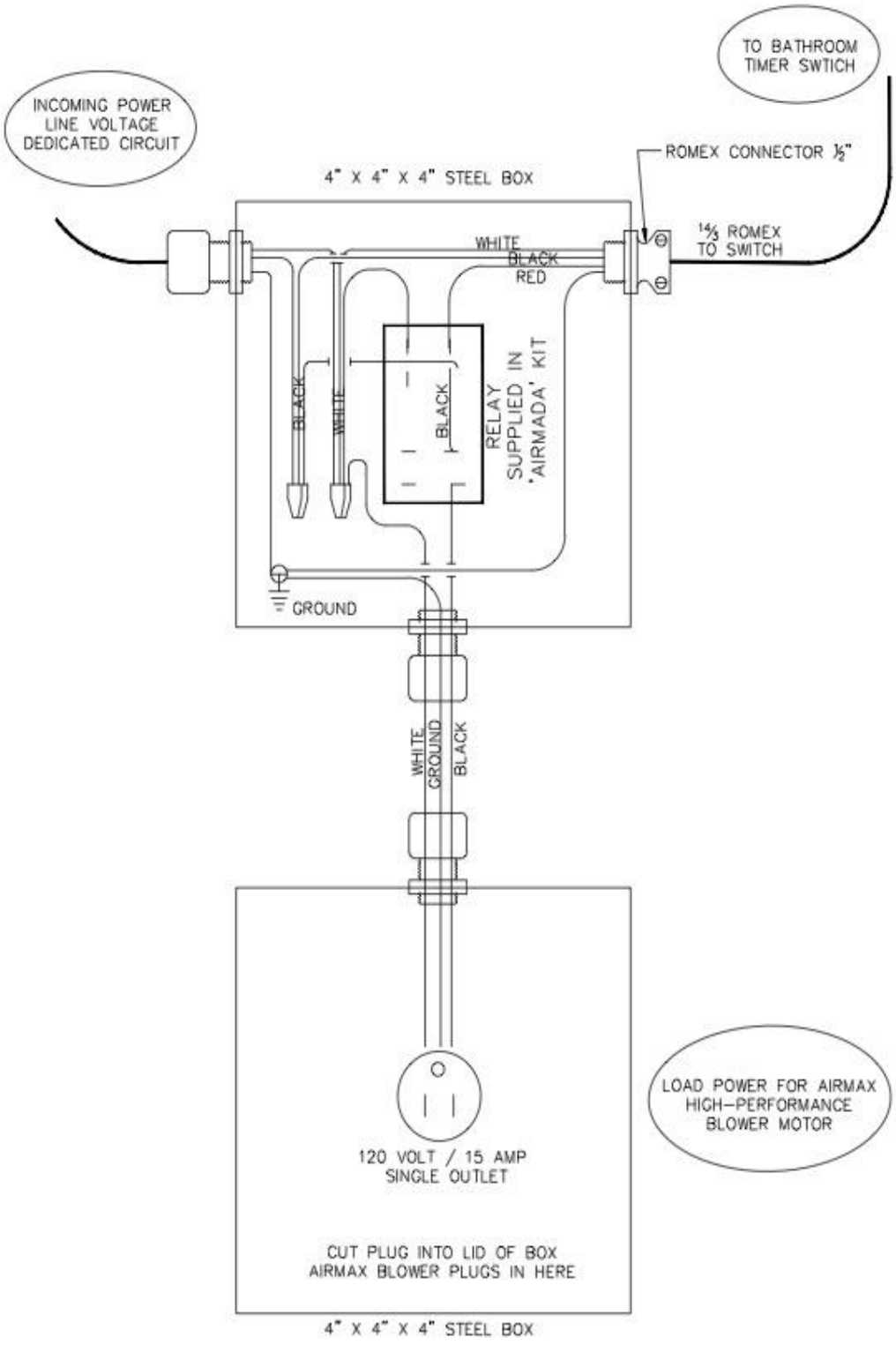
TO BATHROOM
TIMER SWTICH
INCOMING POWER
LINE VOLTAGE
DEDICATED CIRCUIT
ROMEX CONNECTOR ½"
4" X 4" X 4" STEEL BOX
14/3 ROMEX
TO SWITCH
WHITE
BLACK
RED
BLACK
WHITE
BLACK
RELAY
SUPPLIED IN
'AIRMADA' KIT
GROUND
WHITE
GROUND
BLACK
120 VOLT / 15 AMP
SINGLE OUTLET
LOAD POWER FOR AIRMAX
HIGH-PERFORMANCE
BLOWER MOTOR
CUT PLUG INTO LID OF BOX
AIRMAX BLOWER PLUGS IN HERE
4" X 4" X 4" STEEL BOX