



DENTAL AIR SYSTEM

Sound Cover Kits

Part Numbers:

AS10 - 85961 AS12 - 85180
 AS21 - 85962-1M AS22 - 85962-2M
 AS30 - 85963M AS40 - 87440M
 AS50 - 89523M

Assembly Instructions

Kit Contents by AirStar Model

Part Description	Quantity	AS10	AS12	AS21	AS22	AS30	AS40	AS50
Left Side Panel	1	89495	85181	89459	89446	89445	87444	89518
Right Side Panel	1	89496	89496	89447	89448	89448	87445	89517
Rear Panel	1	89497	89497	89449	89449	89449	87447	89474
Front Panel	1	89498	89498	89453	89453	89453	87446	89475
Top Plate	1	89499	89499	89454	89454	89454	87448	89476
Rear Tray	1	89480	89480	89506	89506	89506	87442	89452
Front Tray	1	89494	89494	89444	89444	89444	87443	89472
1/4-20 X 3/4 Slot Bolt	8	30849	30849	30849	30849	30849	30849	30849
1/4 inch Split Washer	4	30222	30222	30222	30222	30222	30222	30222
#8 x 1/2 Phillips Pan Head Screw	14 for AS10,12, 21, 22, 30 & 40 18 for AS 50	30430	30430	30430	30430	30430	30430	30430
#8 Flat Washer	14 for AS10, 12, 21, 22, 30 & 40 18 for AS50	30028	30028	30028	30028	30028	30028	30028
1/4 inch Internal Tooth Washer	8	30970	30970	30970	30970	30970	30970	30970
1/4-20 X 3/4 Thread Forming Hex Head Bolt	5	31350	31350	31350	31350	31350	31350	31350
Clamp, Cable w/ adhesive	2	43824	43824	43824	43824	43824	43824	43824
Clamp, Cable, Rubber Cushion	1	55154	55154	55154	55154	55154	55154	55154
SST Braided Hose	1	87400-32	87400-32	87400-38	87400-38	87400-38	87400-38	87400-38
Voltage (VAC)		120	220	120	220	220	220	220
Voltage Min/Max		108/132	198/242	108/132	198/242	198/242	198/242	198/242
Full Load Amps		0.30	0.15	0.30	0.15	0.30	0.30	0.30
Frequency (Hz)		60	50/60	60	50/60	50/60	50/60	50/60

ASSEMBLY

Note: Make sure to remove the braided hose from the Cooler that inhibits installation of the right side panel and replace with the braided hose provided in the kit.

1. **Install supplied braided hose.** Use the rubber cushion cable clamp and 1/4-20 x 3/4 hex head thread forming bolt to mount the hose on the front mounting rail. Make sure to route the braided hose under the Cooler mounting bracket.
2. **Install Rear Tray onto unit.**
 - a. Set aside four 1/4-20 x 3/4 hex head thread forming bolts. Guide the assembly from the back, forward onto the mounting rail.
 - b. Align the holes at the base of the Rear Tray to the holes in the mounting rail. See Fig. 1. Install and tighten bolts.
3. **Install Left Side Panel onto Rear Tray Assembly.**

Note: The serial number plate is on the left side panel of all units.

 - a. Set aside three #8 Phillips head screws and flat washers (use four screws for AS50).
 - b. Align screw clips in the side panel to the holes in the rear tray. See Fig. 1, Detail B. Tighten screws.
4. **Install Right Side Panel Assembly.**
 - a. Set aside three #8 Phillips head screws and flat washers (use four screws for AS50).
 - b. Align screw clips in the side panel to the holes in the rear tray. See Fig. 1, Detail B. Tighten screws.
 - c. For AirStar 21, 22, 30 and 40 route the fan cord under the plastic clips, and plug the receptacle into the connector on the thermostat housing. See Fig. 1.
5. **Install Front Tray Assembly.**
 - a. Set aside four #8 Phillips head screws and flat washers (use six screws for AS50).
 - b. From the front of the unit, slide the front tray under the side panels onto the top of the rear tray. See Fig. 1.
 - c. Align holes in front tray to the screw clips in the side panels, and the holes in the rear tray to the screw clips in the front tray. See Fig. 2, Detail B. Tighten screws.
6. **Install Rear Panel Assembly.**
 - a. Set aside four 1/4-20 x 3/4 slot bolts and internal tooth washers.
 - b. From the rear of the AirStar, place the back panel with the longer flange at the top facing the side panels and align the holes on the back panel with the retaining nuts in the side panels. See Fig. 1, Detail A. Tighten bolts.
 - c. For AirStar 50 route the fan cords under the plastics clips, and plug the receptacles into the connectors on the thermostat housing. See Fig. 2.
7. **Install Front Panel Assembly.**
 - a. Set aside four 1/4-20 x 3/4 slot bolts and internal tooth washers.
 - b. From the front of the AirStar, place the front panel with the longer flange at the top facing the side panels and align the holes on the back panel with the retaining nuts in the side panels. See Fig. 1, Detail A. Tighten bolts.
8. **Install Top Plate Assembly.**
 - a. Set aside four #8 Phillips head screws and flat washers.
 - b. Place Top Plate on the top of the sound cover and be sure that the rounded edges cover the front and rear flanges of the side panels. See Fig. 1. Tighten screws.

FIG. 1
SOUND COVER INSTALLATION
AIRSTAR 10,12, 21, 22, 30 & 40

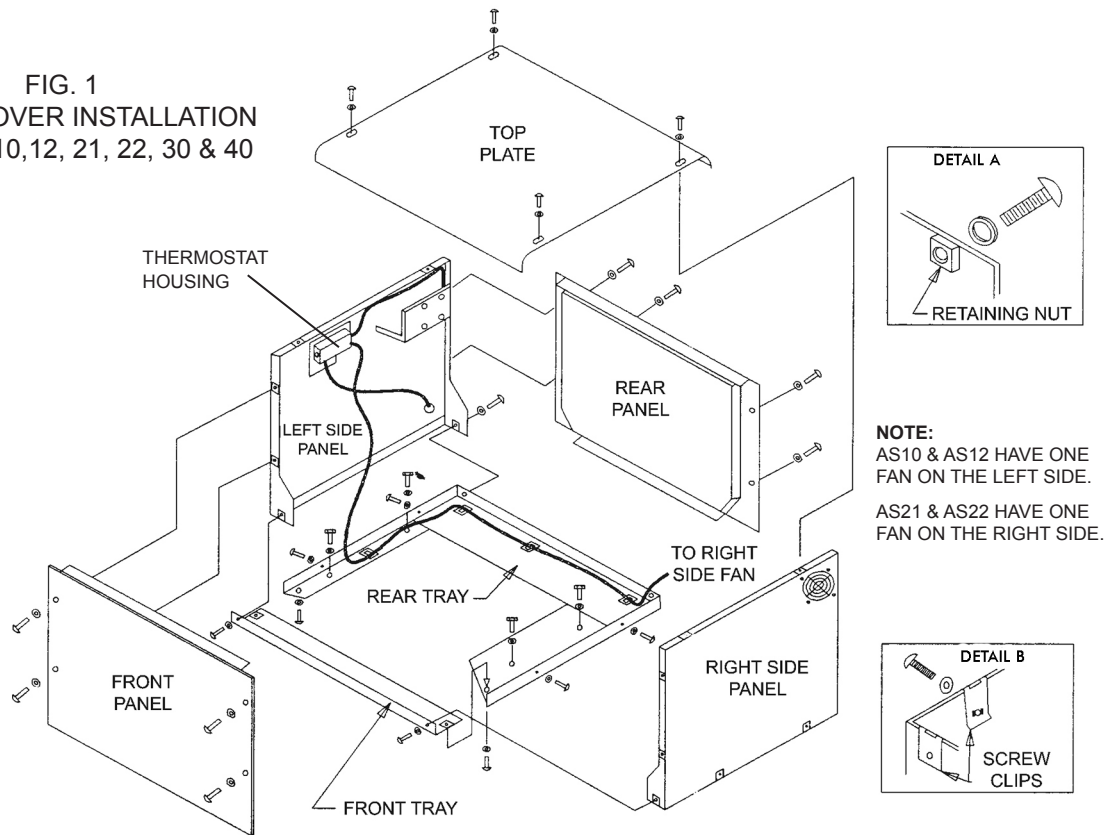
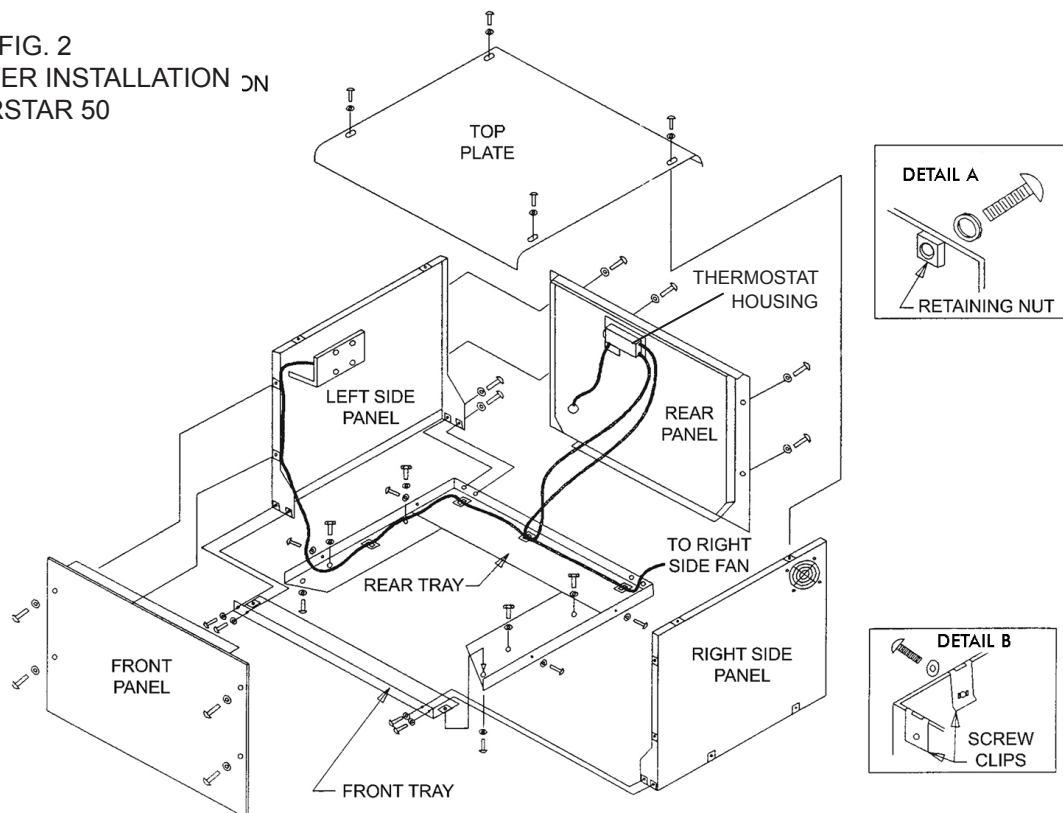


FIG. 2
SOUND COVER INSTALLATION ON
AIRSTAR 50



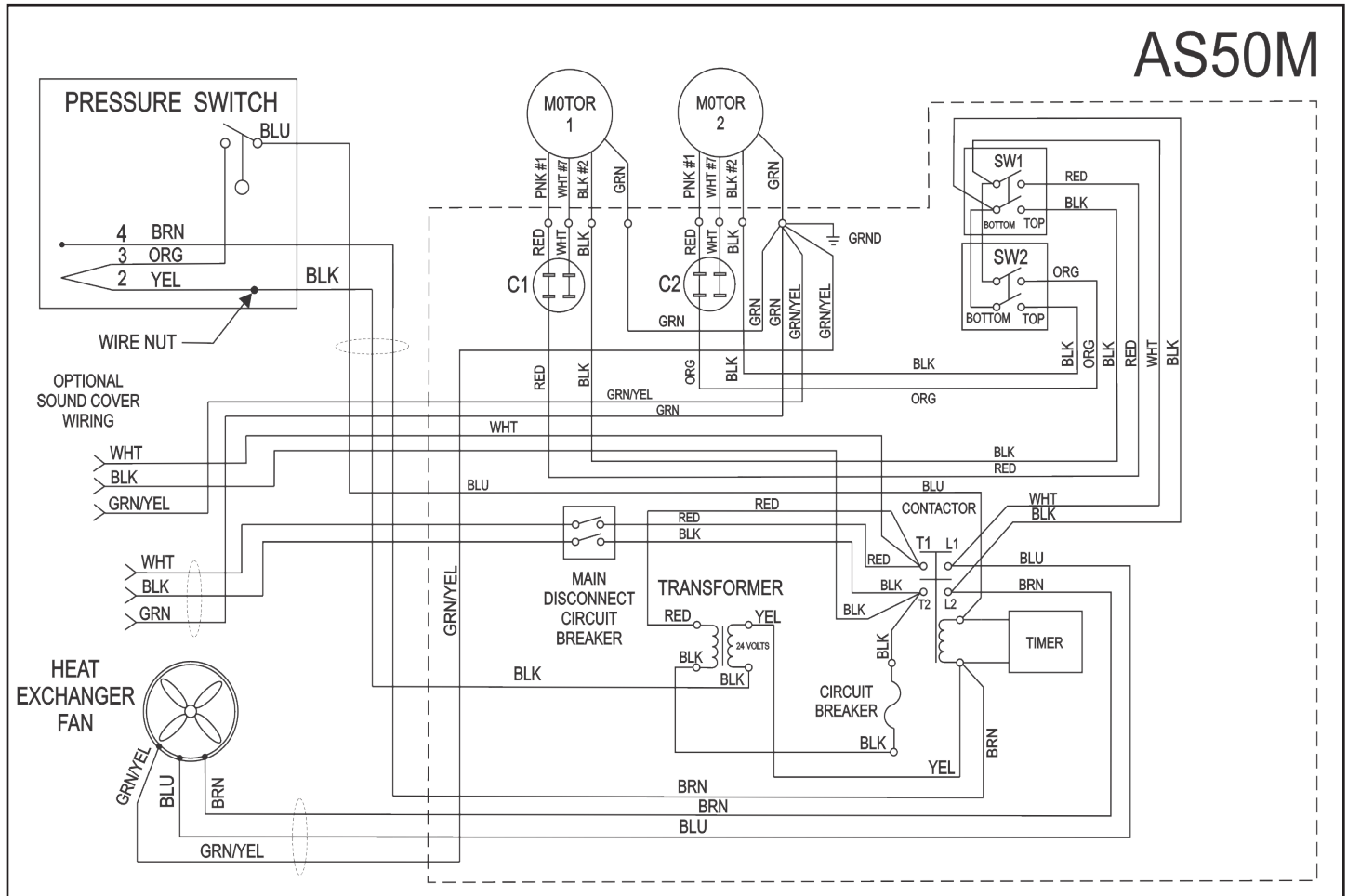
INSTALLATION

1. The sound cover has its own power supply cord. This cord is located on the rear panel of the AirStar 50 sound cover and found on the left side sound cover panel of the AirStar 10, 12, 21, 22, 30 and 40 models. Remove the protective plug on the rear of the AirStar electrical box exposing the 7/8" opening. Remove the strain relief nut on power cord then pass power cord through 7/8" opening and tighten strain relief nut to secure wire. Connect the sound cover power cord as per the wiring diagram below. If needed use the cable clamp with adhesive to secure the cable.

Note: The power supply cord for the sound cover must be connected or the unit will thermally overload.

2. The fan(s) inside the sound cover are controlled by a thermostat. The thermostat turns the fans on when the temperature inside the sound cover exceeds 110°F (±5%). When the temperature drops lower than 90°F (±5%) the fans turn off
3. With the compressor running at a 50% duty cycle, the fans will be ready to turn on, if needed, within 20 minutes.

Note: If the compressor is running at a high duty cycle once the fans turn on, they may not turn off until the duty cycle is reduced. If the compressor is running at a low duty cycle, the fans may not turn on. The AirStar 10, 12, 21 and 22 only require one fan.



TYPICAL WIRING CONNECTION



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