
INSTALLATION INSTRUCTIONS

Original Issue Date: **4/93**

Model: **20/40ROZJ**
50/60ROZJ

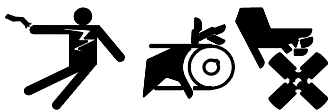
Market: **Industrial**

Subject: **Sound Shield Enclosure Kits PA-276919, 276919, PA-276956, 276956**

Sound shield enclosure provides sound dampening of an operating generator set.

The factory preassembles the sound shield, but the sound shield does require some final assembly at the time of installation. See Figure 1 for sound shield dimensions.

⚠ WARNING



Accidental starting.
Can cause severe injury or death.

Disconnect battery cables before working on generator set. (Remove negative (–) lead first when disconnecting battery. Reconnect negative (–) lead last when reconnecting battery.)

Disabling generator set. Accidental starting can cause severe injury or death. Before working on the generator set or connected equipment, disable the generator set as follows: 1) Turn the generator set master switch to OFF position. 2) Disconnect power to battery charger. 3) Remove battery cables (remove negative (–) lead first). Reconnect negative (–) lead last when reconnecting battery. Follow these precautions to prevent starting of generator set by an automatic transfer switch or remote start/stop switch.

NOTE

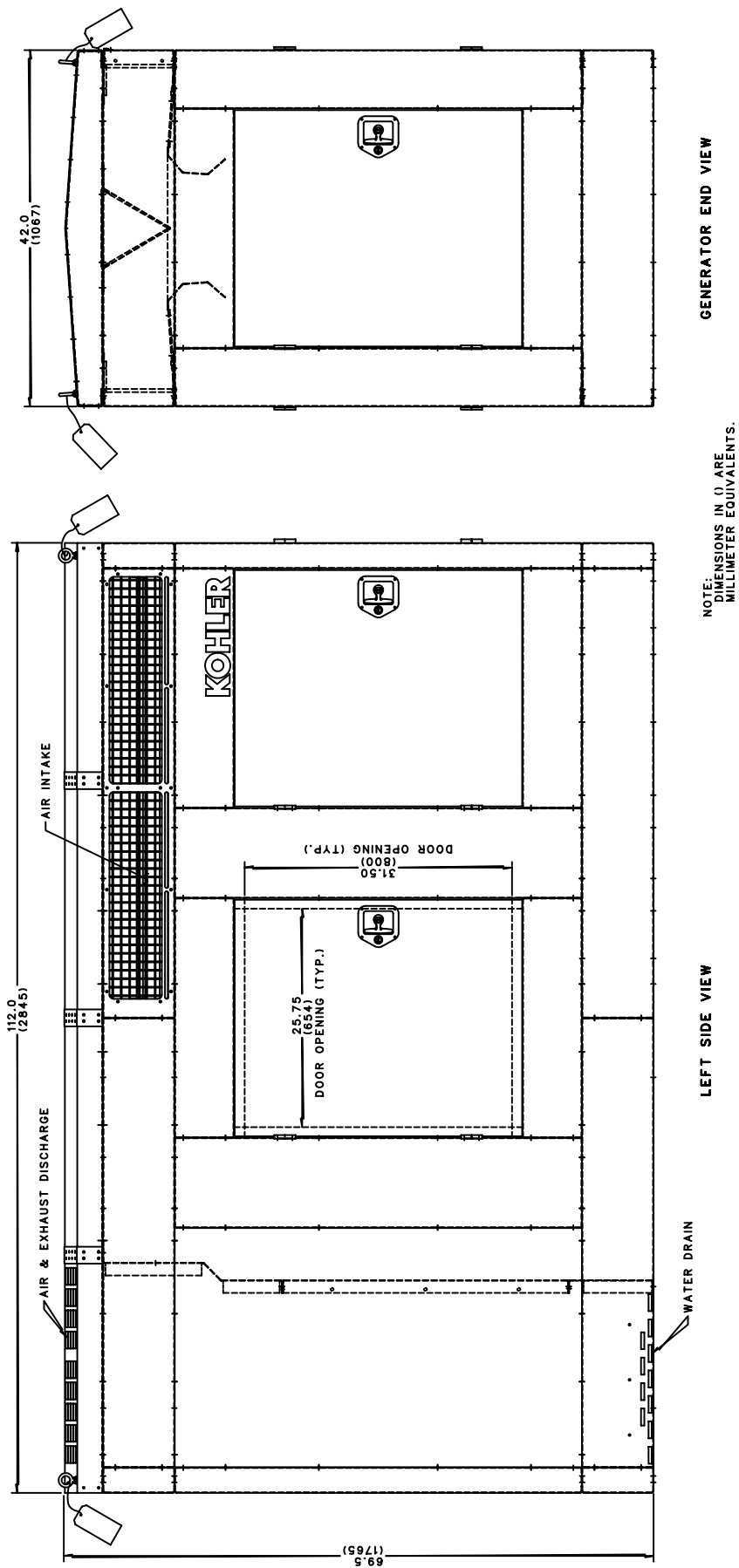
If the generator set has an installed sound shield and subbase fuel tank, the assembly can be lifted as one unit provided:

- The subbase fuel tank has lifting eyes installed.
- The subbase fuel tank is empty.
- The subbase fuel tank does not extend beyond the perimeter of the generator set skid.

In all other cases, remove the sound shield from the generator set.

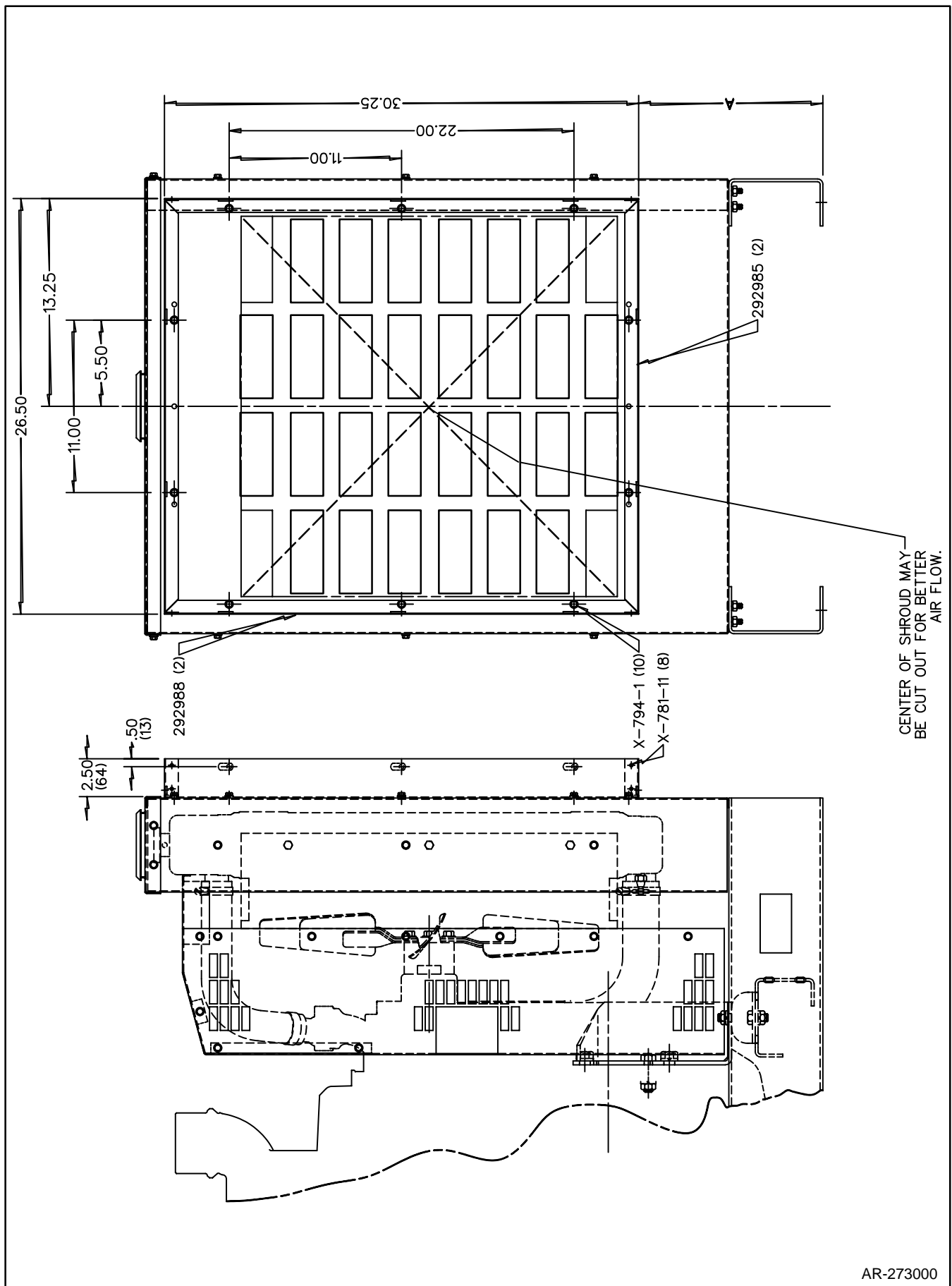
Installation

1. Place the generator set master switch in the OFF position.
2. Disconnect power to the battery charger, if equipped.
3. Disconnect the generator set engine starting battery, negative (–) lead first.
4. Mark sound shield access doors for reinstallation in their original locations. The factory aligns the doors and openings for fit and appearance.
5. Remove sound shield access doors.
6. Remove screws attaching the sound shield enclosure to the shipping pallet.
7. Remove drill screws attaching radiator duct flange to radiator shroud, if installed. See Figure 2. Do not remove bolts attaching radiator duct flange to the sound shield enclosure.
8. Remove any shipped-loose components, packing material, and literature from inside the sound shield. If exhaust piping is preassembled, disconnect the exhaust system at the exhaust manifold.



ADV-5837A-C

Figure 1. Sound Shield Dimension Drawing



AR-273000

Figure 2. Radiator Duct Flange Mounting

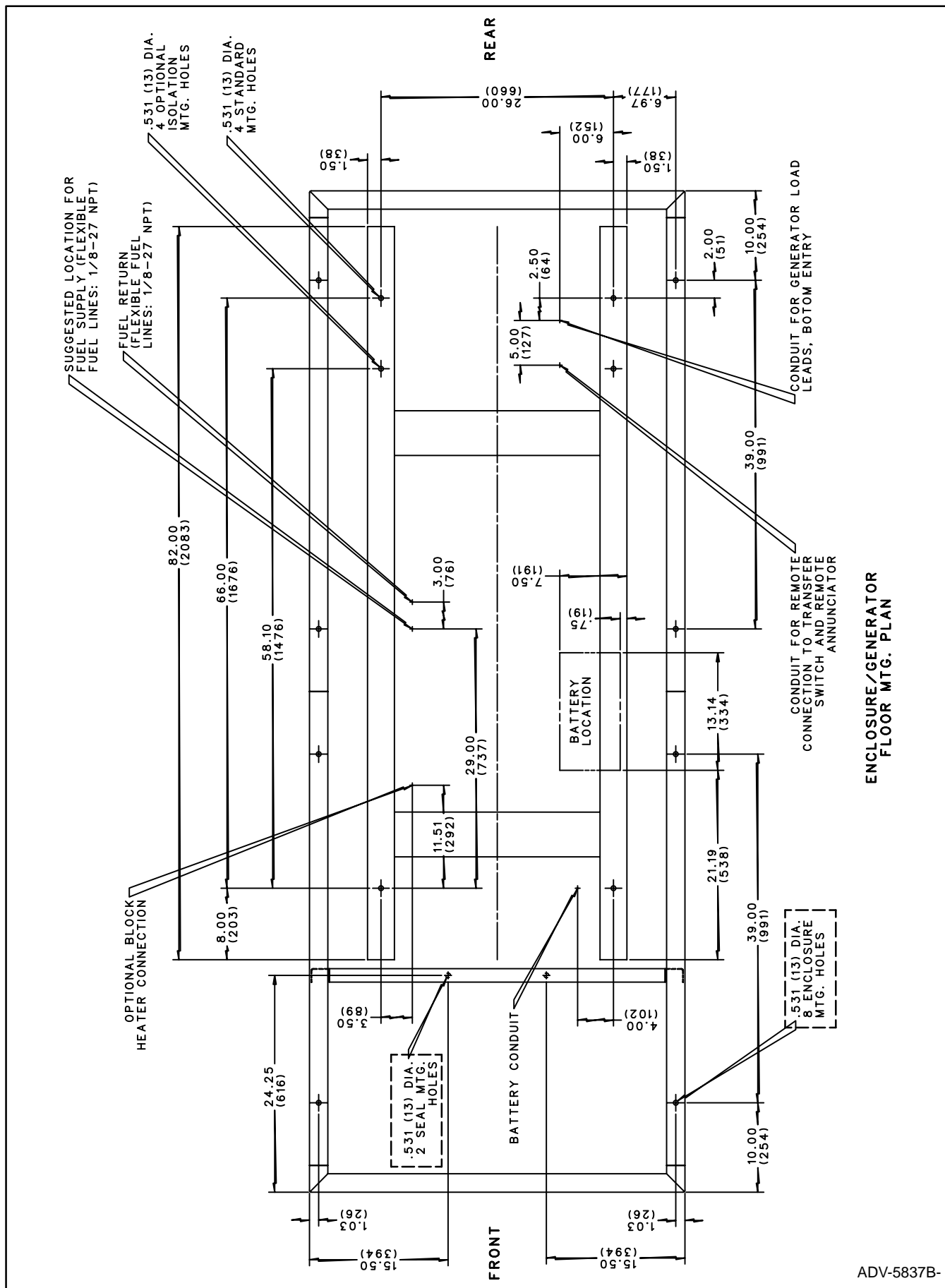


Figure 3. Sound Shield Dimension Drawing

9. Check weight of sound shield and choose lifting equipment capable of handling the weight. Consult current sound shield spec sheet for weights. Place sound enclosure on a solid flat surface until installed over generator set.

Hoist the sound shield enclosure, including the silencer at each eye bolt on top of the enclosure. Lift slowly to prevent damage to generator set and/or sound enclosure. Because the silencer is mounted to the sound enclosure, the sound shield enclosure may require balancing to achieve vertical removal. Use load levelers as necessary to balance the load. Use care with preassembled exhaust systems that loose exhaust components do not damage engine and/or sound shield enclosure.

10. Consult current generator set spec sheet for generator set weight. Lift generator set and place it on the mounting base using lifting equipment capable of handling the weight. Mount generator set to mounting base. Remove lifting equipment from generator set.
11. Hoist sound shield enclosure and place it over generator set. Observe each corner for adequate clearance while carefully lowering sound shield. Correctly align exhaust system if sound shield enclosure has preassembled exhaust piping. Remove hoist equipment from sound shield enclosure.
12. Align radiator duct flange to radiator shroud. Attach radiator duct flange to radiator shroud using four drill screws (X-794-1). Predrill mounting holes if an impact wrench is not available. See Figure 2.

NOTE

To improve air flow, remove the center of the radiator shroud by cutting the sheet metal between the rectangular openings. Be careful not to damage radiator fins. See Figure 2.

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13. Secure sound shield enclosure to mounting base. See Figure 3 for hole locations.
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NOTE

Some sound shield enclosures have partially preassembled exhaust systems.

14. Starting at exhaust muffler install exhaust pipes (276961, 222657, 276958 or 276957). At each connection install exhaust clamps (286283).

15. Install exhaust clamp (276948 or 276949) at exhaust manifold outlet. Do not tighten exhaust clamps at this time. See Figure 4.

With each section installed and exhaust pipe centered in hole of sound shield enclosure, final tighten all exhaust clamps.

16. Install fiberglass exhaust wrap (19000 09400) over exhaust piping starting at exhaust manifold. Overlap exhaust wrap about 1/3 to 1/2 of the material width. Use hose clamp (X-426-1) to secure the beginning of the exhaust wrap. The end of the exhaust wrap must stop at or beyond the point where exhaust pipe goes through the hole in the sound shield enclosure. Secure the end of exhaust wrap with second hose clamp (X-426-1).

17. Install all sound shield enclosure access doors in their original locations. If required, readjust doors for fit and appearance.

18. Check that all hardware has been tightened.

19. Check that the generator master switch is in the OFF position.

20. Reconnect generator set engine starting battery, negative (–) lead last.

21. Reconnect power to battery charger, if equipped.

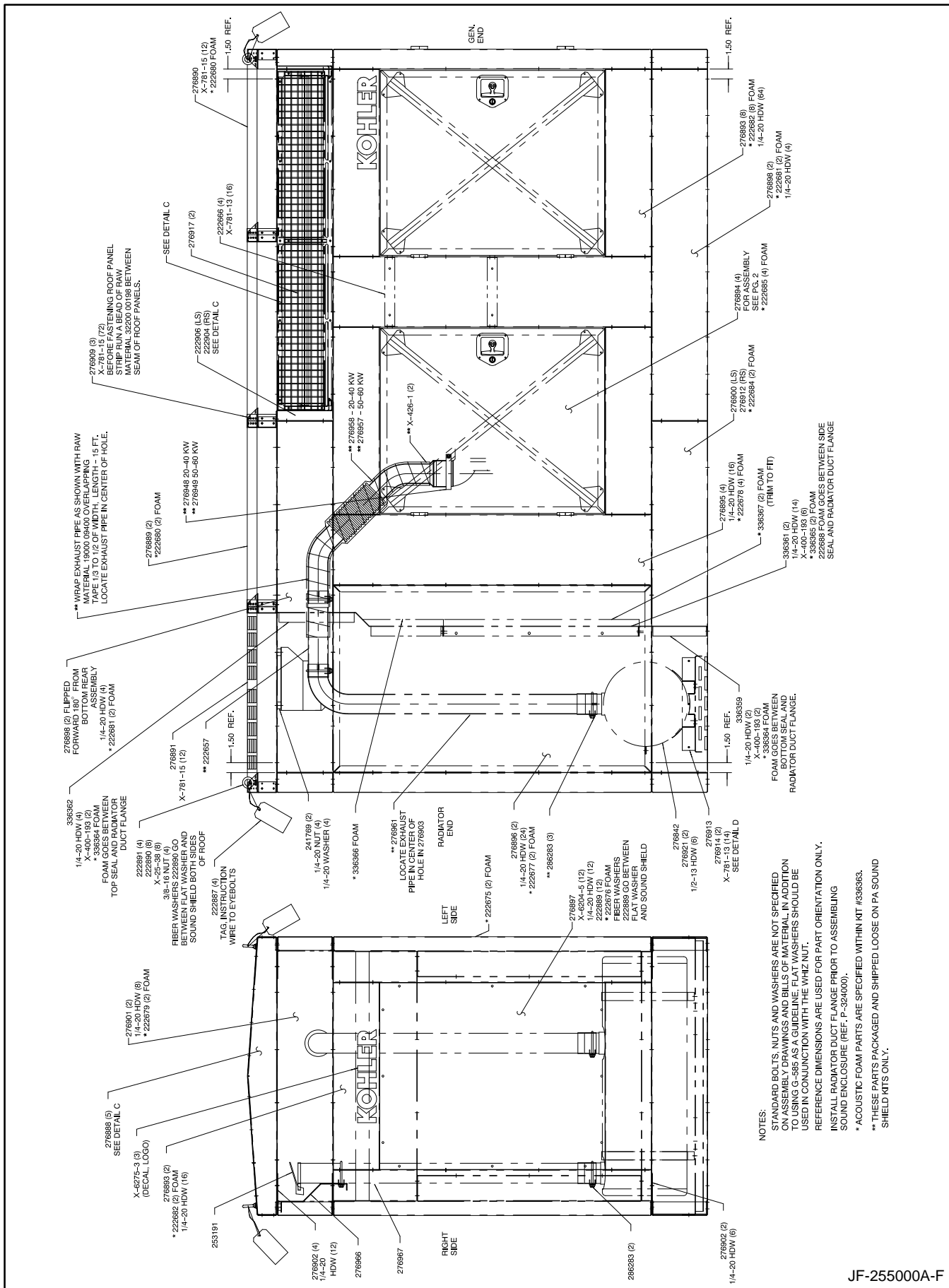


Figure 4. Sound Shield Assembly

Block Heater

Parts List				
Kits: PA-276919, 276919, PA-276956, 276956			Unique Parts	
Qty.	Description	Common Parts	PA-276919 276919	PA-276956 276956
8	Washer, plain i.d. = 1.25	X-25-38		
8	Washer, plain i.d. = 0.26	X-25-124		
2	Nut, hex 1/2-13	X-70-10		
2	Screw, h.c. 1/2-13 x 6.0	X-129-44		
10	Spacer	X-400-193		
2	Clamp, hose	X-426-1		
6	Tie, cable	X-468-1		
8	Rivet, pop aluminum/steel	X-781-11		
30	Rivet, pop stainless/stainless	X-781-13		
202	Rivet, pop aluminum/stainless	X-781-15		
6	Screw, drill hex. 0.75	X-794-1		
12	Nut, retainer 1/4-20	X-6204-5		
3	Logo, Kohler	X-6275-3		
1	Pipe, exhaust	222657		
4	Bracket, battery charger	222666		
1	Strap	222670		
1	Support, foam wedge	222671		
2	Strap, foam wedge	222718		
4	Tag, instruction	222887		
12	Washer, fiber i.d. = 0.25	222889		
8	Washer, fiber i.d. = 0.44	222890		
4	Bolt, eye	222891		
2	Louver, air intake	222902		
2	Baffle		276907	222903
1	Channel, air intake	222904		
2	Support, screen	222905		
1	Channel, air intake	222906		
2	Louver, air intake	222907		
2	Mount, controller	241769		
1	Cap, rain	253191		
1	Muffler, exhaust	276842		
5	Support, roof	276888		
2	Panel, roof	276889		
1	Panel, end roof	276890		
1	Panel, end roof	276891		
4	Support, corner	276892		
12	Support, door	276893		
5	Door	276894		
4	Support, side door	276895		
2	Panel, side	276896		
1	Door, front	276897		
4	Channel, solid	276898		
1	Channel, drain	276900		
4	Channel, end	276901		
12	Gusset, corner	276902		
2	Support, screen	276906		
2	Support, baffle	276908		
3	Strip, roof panel	276909		
1	Channel, drain	276912		
1	Support, muffler	276913		
2	Stiffener, muffler support	276914		
10	Brace, door	276915		
2	Screen	276917		
5	Latch, key locking	276918		
2	Clamp, muffler	276921		

Parts List (cont'd)				
Kits: PA-276919, 276919, PA-276956, 276956			Unique Parts	
Qty.	Description	Common Parts	PA-276919 276919	PA-276956 276956
1	Clamp, v-band			276948
1	Clamp, manifold		276949	
1	Pipe, exhaust		276957	276958
1	Pipe, exhaust	276961		
1	Support, exhaust	276966		
1	Pipe, exhaust	276967		
5	Clamp, exhaust	286283		
40	Screw, flat head machine 10-24 x 0.50	295098		
10	Hinge, split	297601		
2	Frame, air duct	324200		
2	Frame, air duct	324201		
1	Seal, bottom	336359		
2	Seal, side	336361		
1	Seal, top	336362		
1	Foam, acoustical	336363		
25	Tape, foam seal (ft.)	19000 08100		
	Insulation, fiberglass (ft.)		19000 09400 (15)	19000 09400 (18)
53	Tape, foam PVC seal (ft.)	19010 08118		