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## INSTALLATION INSTRUCTIONS

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Original Issue Date: 11/99

Model: **150 kW (with 4UA9 Alternator) John Deere Powered**  
**180 kW John Deere Powered**

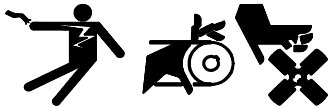
Market: **Industrial**

Subject: **Sound Shield Enclosure Kits GM10607 and GM10608**

The sound shield enclosure provides sound attenuation for the above generator sets.

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

**Disabling the 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) Move the generator set master switch to the OFF position. (2) Disconnect the power to the battery charger. (3) Remove the battery cables, negative (-) lead first. Reconnect the negative (-) lead last when reconnecting the battery. Follow these precautions to prevent starting of the generator set by an automatic transfer switch, remote start/stop switch, or engine start command from a remote computer.

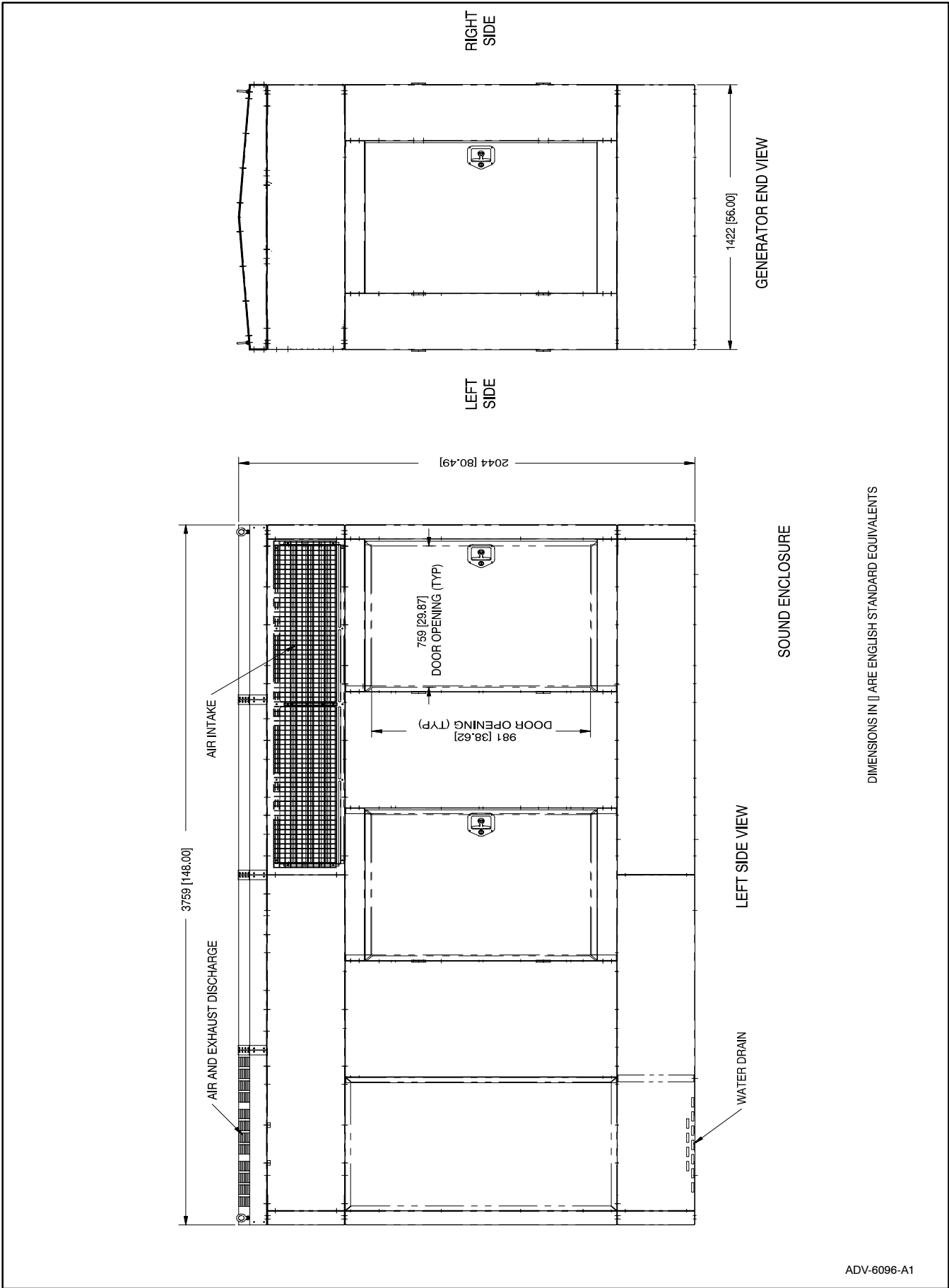
**Note:** If the generator set has an installed sound shield and subbase fuel tank, the assembly can be lifted as one unit provided:

- 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.

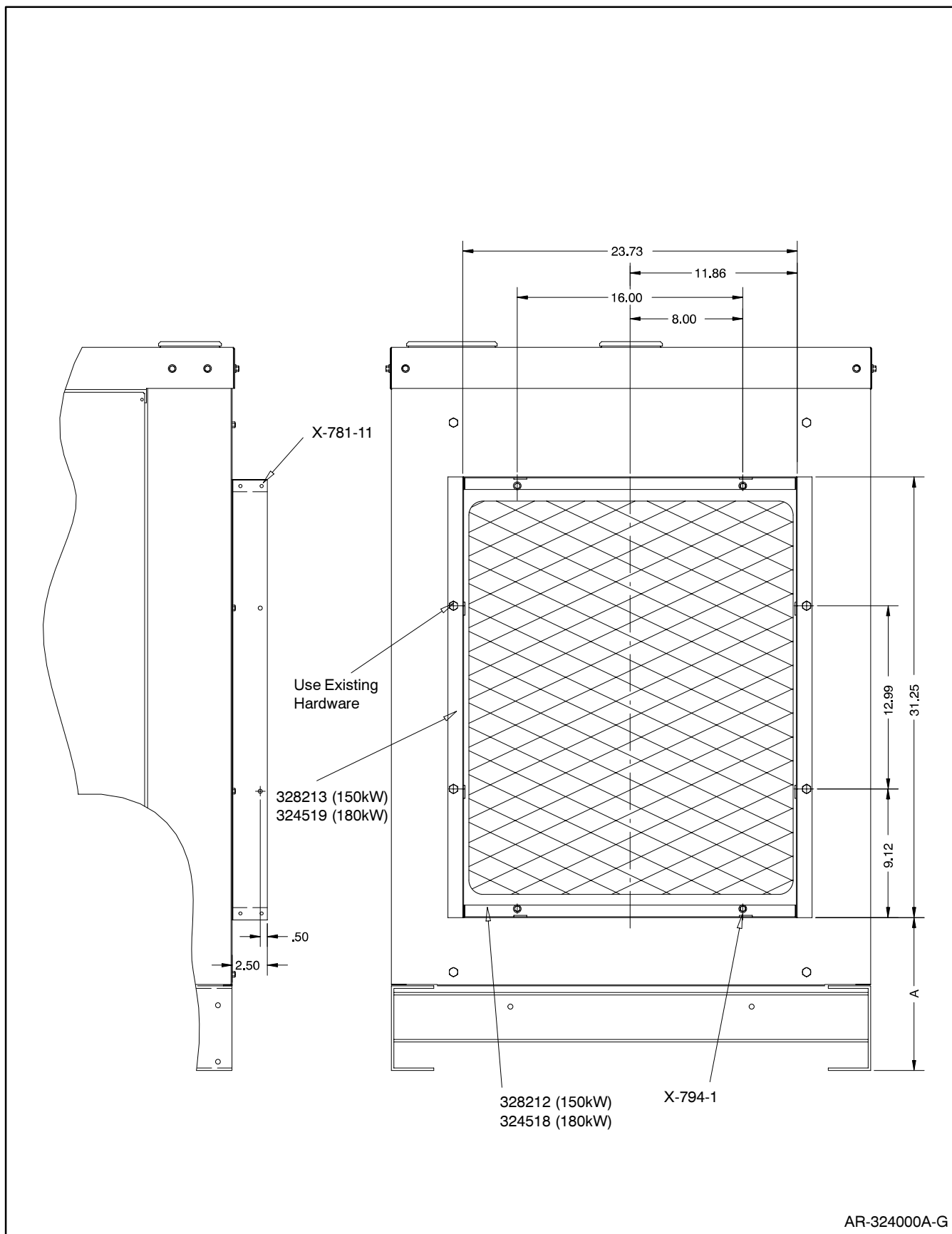
In all other cases, remove the sound shield from the generator set.

## Unpack the Enclosure

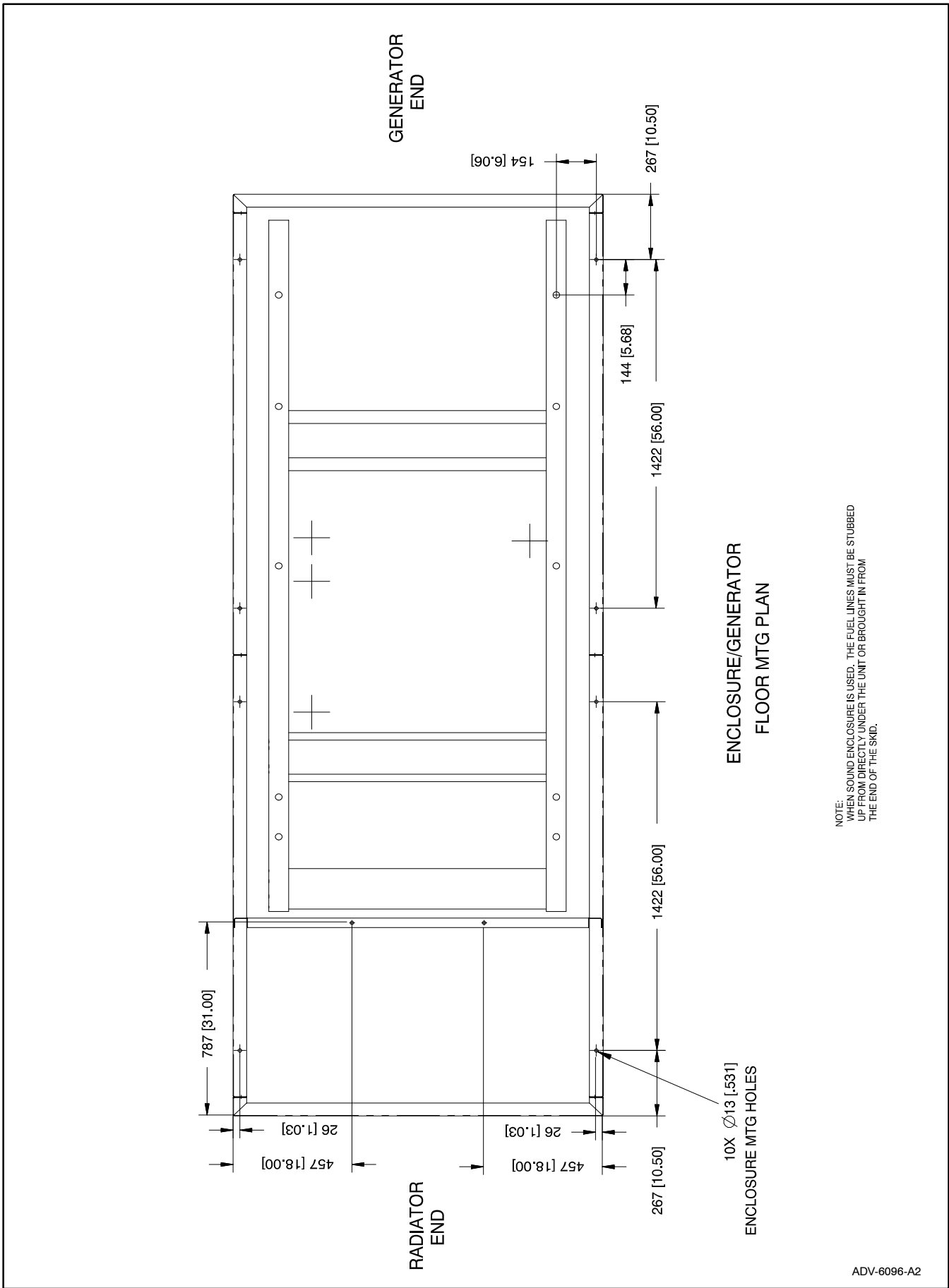
1. Place the generator set master switch in the OFF position.
2. Disconnect the power to the battery charger, if equipped.
3. Disconnect the generator set engine starting battery, negative (-) lead first.
4. Mark the sound shield access doors for reinstallation in their original locations. The factory aligns the doors and openings for fit and appearance.
5. Remove the sound shield access doors.
6. Remove the end panel, which allows access into the exhaust/air discharge plenum.
7. Remove the screws attaching the sound shield enclosure to the shipping pallet.
8. Remove the drill screws attaching the radiator duct flange to the radiator shroud. See Figure 2. Do not remove the bolts attaching the radiator duct flange to the sound shield enclosure.
9. Remove any of the shipped-loose components, packing material, and literature from the inside of the sound shield. If the exhaust piping is preassembled, disconnect the exhaust system at the exhaust manifold.
10. Because the silencer is mounted to the sound enclosure, the sound enclosure may require balancing to achieve vertical removal and installation. Use load levelers as necessary to balance the load.
11. Use the current sound shield specification sheet to determine weights. Choose lifting equipment capable of handling the weight and carefully lift the sound enclosure from the generator set shipping crate and place it on a solid flat surface until it is installed over the generator set.



**Figure 1** Sound Shield Dimension Drawing



**Figure 2** Radiator Duct Flange Mounting



**Figure 3** Sound Shield Dimension Drawing

# Sound Shield Enclosure Installation

1. Lift and mount the generator set onto the mounting base. Use lifting equipment capable of handling the weight of the generator set.
2. Hoist the enclosure and silencer over the generator set, carefully lower the enclosure to prevent damage. Observe each corner of the enclosure for adequate clearance.
3. Align the exhaust system if the sound shield enclosure has preassembled exhaust piping. Remove the hoist from sound shield enclosure.
4. Align the radiator duct flange with the radiator shroud. Attach the radiator duct flange to the 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 the radiator fins. See Figure 2.
5. Secure the sound shield enclosure to the mounting base. See Figure 3 for hole locations.
6. Starting at the exhaust muffler, install exhaust pipes (336338, 336340, 336908, and 336341). At each connection, install exhaust clamps (289372). Do not tighten the exhaust clamps at this time.
7. Install an exhaust clamp (276949) at the exhaust manifold outlet. Do not tighten the exhaust clamp at this time. See Figure 4.
8. When each section is installed and the exhaust pipe is centered in the exhaust outlet opening of the sound shield enclosure, tighten all exhaust clamps.
9. Install the fiberglass exhaust wrap (19000 09400) over the exhaust piping starting at the exhaust manifold. Overlap the exhaust wrap about 1/3 to 1/2 of the material width. Use a hose clamp (X-426-1) to secure the beginning of the exhaust wrap. The end of the exhaust wrap must extend beyond the exhaust outlet opening of the sound shield enclosure. Secure the end of the exhaust wrap with a second hose clamp (X-426-1).
10. Install all sound shield enclosure access doors in their original locations. If required, readjust the doors for fit and appearance.
11. Check that all of the hardware is tight.
12. Check that the generator master switch is in the OFF position.
13. Reconnect the generator set engine starting battery, negative (-) lead last.
14. Reconnect the power to battery charger, if equipped.

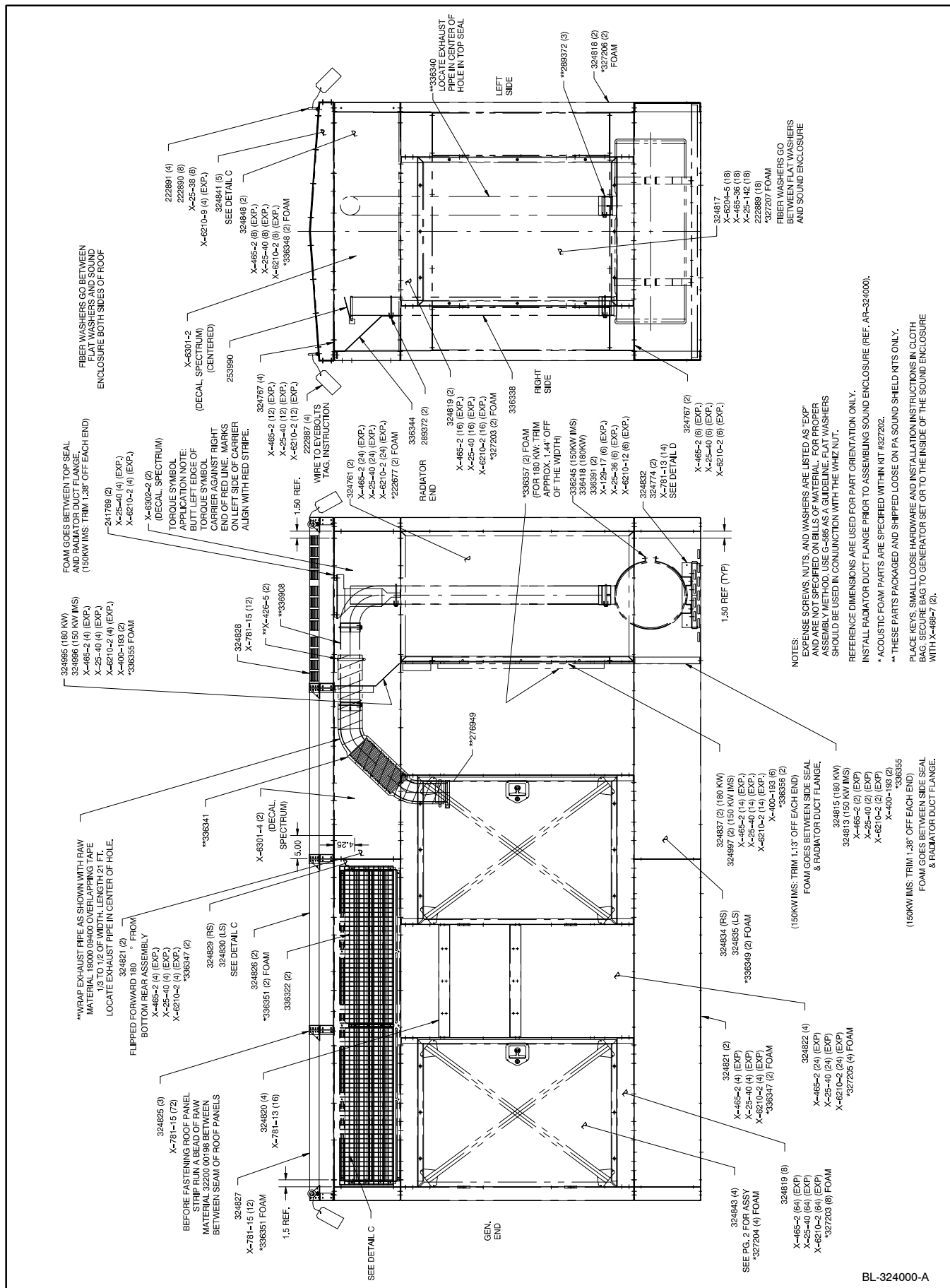


Figure 4 Sound Shield Assembly

## Sound Shield Enclosure Kits

Parts List				
	Kit: GM10607 and GM10608		GM10607	GM10608
Qty.	Description	Part Number	Unique Parts	
2	Bolt	PNP-2002-60		
4	Screw, hex head	PNP-2300-16		
10	Screw, hex head	PNS-2302-1		
2	Seal, 1 1/4 in.	PNS-4000		
18	Washer, plain, .281 ID x .625 in. OD	X-25-142		
8	Washer, plain, .406 ID x 1.25 in. OD	X-25-38		
10	Spacer, .277 ID x .375 OD x 1.75 in.	X-400-193		
2	Clamp, hose, 3.56/4.5 in.	X-426-5		
18	Screw, hex head machine	X-465-36		
18	Retainer, nut	X-6204-5		
8	Rivet, pop, .187 in. x .325 aluminum	X-781-11		
30	Rivet, pop, .187 in. x .325 stainless	X-781-13		
222	Rivet, pop, .187 in. x .595	X-781-15		
4	Screw, hex washer head, drill	X-794-1		
34	Foam, seal (tape) 1x3/16 (ft.)	19000 08100		
21	Insulation, fiberglass 4" (ft.)	19000 09400		
53	Foam,pvc seal tape 1x3/16 (ft.)	19010 08118		
4	Tag, instruction	222887		
18	Washer, fiber, .25 ID x .71 in. OD	222889		
8	Washer, fiber, .437 ID x 1.25 in. OD	222890		
4	Bolt, eye, 3/8-16 UNC-2A, 3.28 in.	222891		
2	Mount, controller	241769		
1	Cap, rain	253990		
2	Panel, side	324761		
12	Gusset, corner	324767		
2	Stiffener, muffler support	324774		
5	Latch, key locking	276918		
1	Clamp, exhaust, 4.81 in.	276949		
5	Clamp, muffler, 4.12 in.	289372		
10	Hinge, split	297601		
2	Frame, air duct		326212	324518
2	Frame, air duct		326213	324519
1	Door, front	324817		
4	Support, corner	324818		
12	Support, door	324819		
4	Bracket, battery charger	324820		
4	Channel, solid	324821		
4	Support, side door	324822		
10	Brace, door	324842		
5	Door	324843		
1	Channel, drain	324834		

Parts List				
	Kit: GM10607 and GM10608		GM10607	GM10608
Qty.	Description	Part Number	Unique Parts	
1	Channel, drain	324835		
1	Insulation, acoustic foam	327202		
2	Support, screen	324802		
6	Louver, air intake	324803		
3	Strip, roof	324825		
2	Panel, roof	324826		
1	Panel, roof	324827		
1	Panel, roof	324828		
2	Support, screen center	324823		
2	Screen	336322		
1	Channel, air intake	324829		
1	Channel, air intake	324830		
1	Support, muffler	324832		
2	Support, baffle	324833		
2	Louver, air intake	324836		
2	Seal, side		324997	324837
1	Seal, bottom		324813	324815
1	Seal, top		324996	324995
2	Strap, wedge	324838		
1	Tube, exhaust, 40 in.	336338		
1	Tube, exhaust, 4 in.	336340		
1	Tube, flexible exhaust, 40 in.	336341		
1	Support, foam wedge	324839		
1	Strap, wedge	324840		
1	Support, exhaust	336344		
5	Support, roof	324841		
2	Clamp	336391		
1	Silencer, exhaust critical, 4 in.		336245	336418
1	Tube, exhaust, 40 in.	336908		
4	Channel, end	324848		
40	Screw, flat c'sunk, machine	353537		
2	Baffle, sound enclosure	324849		
2	Decal	X-6302-2		
2	Decal	X-6301-4		
1	Decal	X-6301-2		