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## INSTALLATION INSTRUCTIONS

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Original Issue Date: 11/99

Model: 80/100 kW John Deere Powered

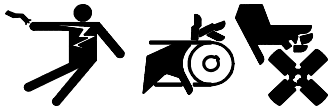
Market: Industrial

Subject: Sound Shield Enclosure Kit GM10605

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.

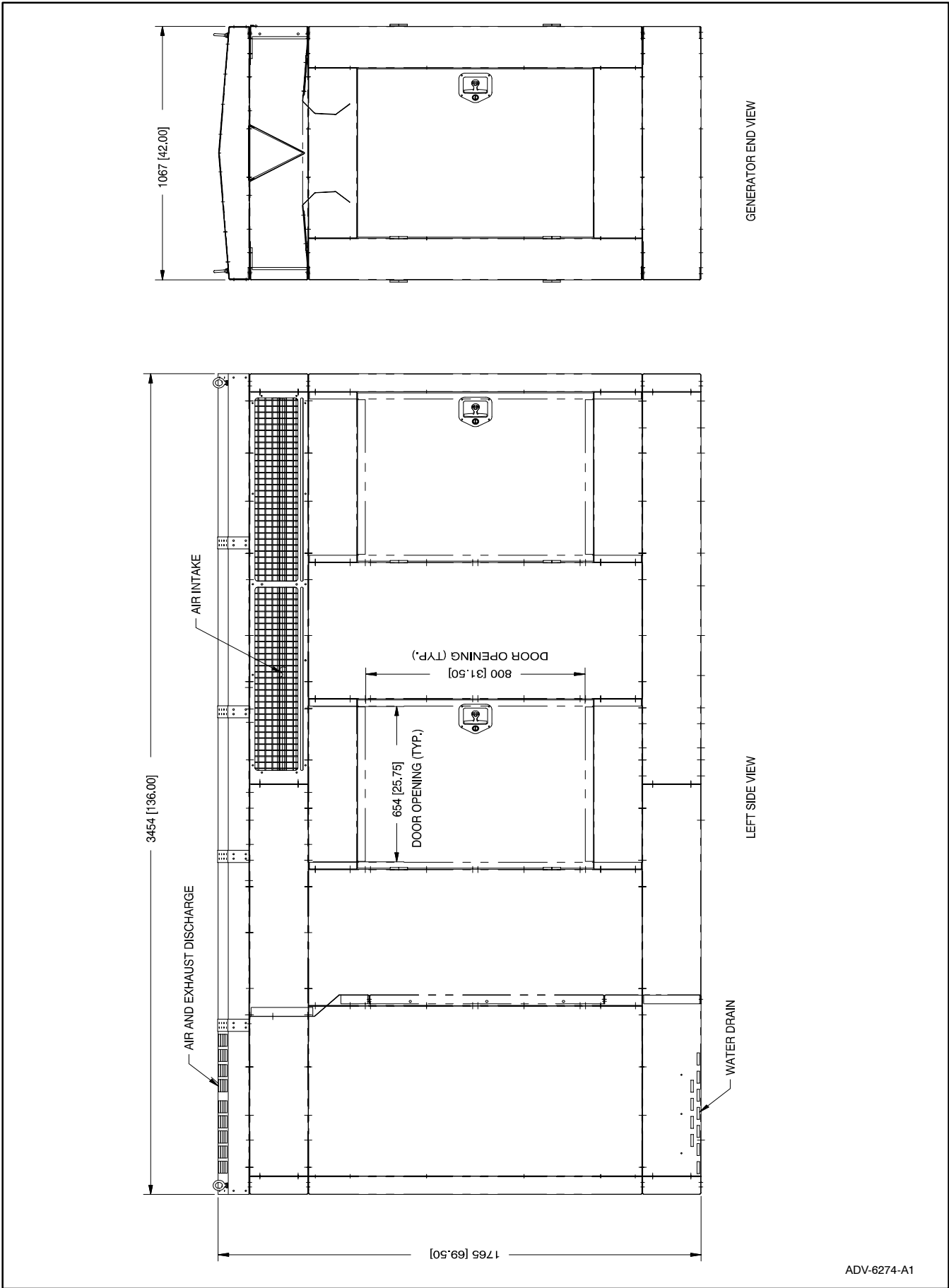
**Note:** If the generator set has an installed sound shield and subbase fuel tank, the assembly can be lifted as one unit provided:

- 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.

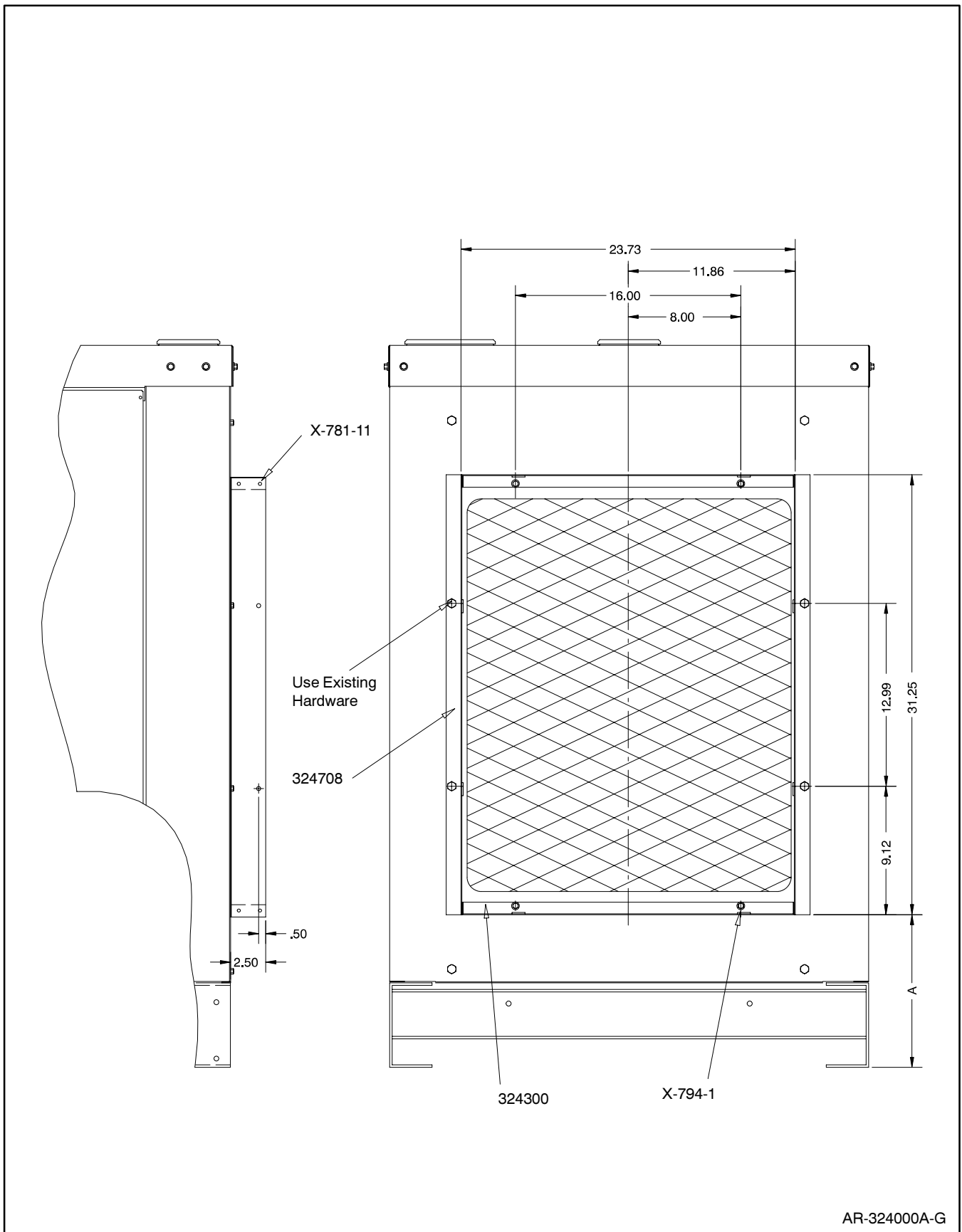
In all other cases, remove the sound shield from the generator set.

## 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.
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.

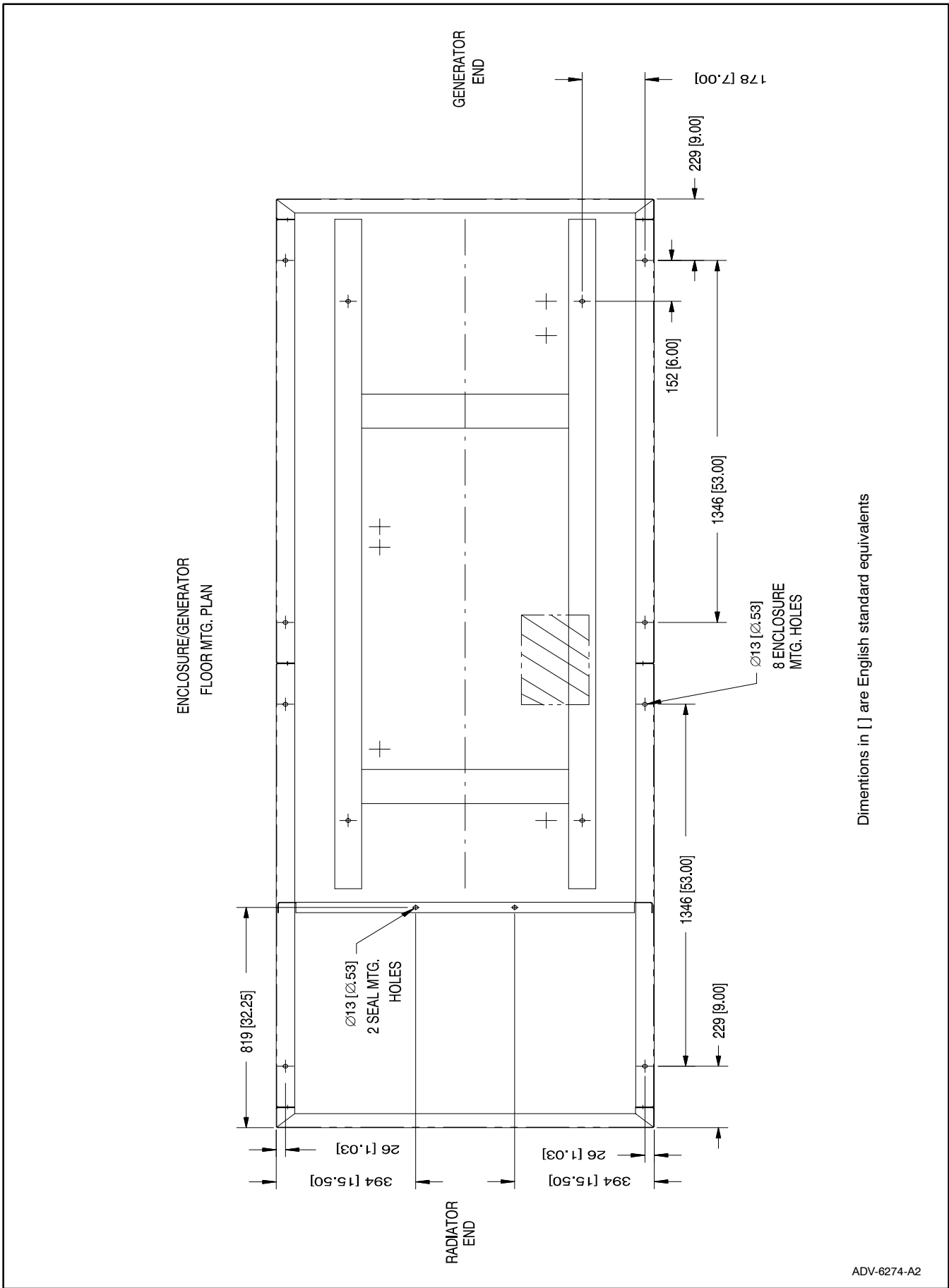


**Figure 1** Sound Shield Dimension Drawing



AR-324000A-G

**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 a hoist capable of handling the weight.
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 (276977, 222717, and 276974). 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. Install the end panel.
12. Check that all of the hardware is tight.
13. Check that the generator master switch is in the OFF position.
14. Reconnect the generator set engine starting battery, negative (-) lead last.
15. Reconnect the power to battery charger, if equipped.



## Sound Shield Enclosure Kits

Parts List		
Kit: GM10605		
Qty.	Description	Part Number
4	Screw, hex head	PNP-2300-16
10	Screw, hex head	PNS-2302-1
2	Seal, 1 1/4 in.	PNS-4000
10	Washer, plain ID. = 0.26	X-25-124
12	Washer, plain, .281 ID x .625 in. OD	X-25-142
8	Washer, plain ID. = 1.25	X-25-38
8	Spacer	X-400-193
2	Clamp, hose	X-426-5
12	Screw, hex head machine	X-465-36
12	Nut, retainer 1/4-20	X-6204-5
8	Rivet, pop aluminum/steel	X-781-11
30	Rivet, pop stainless/stainless	X-781-13
226	Rivet, pop aluminum/stainless	X-781-15
4	Screw, hex washer head, drill (NRP)	X-794-1
25	Tape, foam seal (ft.)	19000 08100
18	Insulation, fiberglass (ft.)	19000 09400
53	Tape, foam PVC seal (ft.)	19010 08118
2	Strap	324746
4	Bracket, battery charger	324983
1	Support, foam wedge	GM10066
1	Tube, exhaust, 40 in.	222717
2	Strap, wedge	324812
1	Insulation, acoustic foam	222725
1	Panel, roof	324988
1	Tube, flexible exhaust, 40 in.	222727
4	Tag, instruction	222887
12	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	Support, screen center	324751
1	Channel, air intake	324986
1	Channel, air intake	324987
2	Louver, air intake	GM10069
2	Louver, air intake bottom	GM10068
2	Mount, controller	241769
1	Cap, rain	253990
6	Support, roof	324753
2	Panel, roof	324754
1	Panel, end roof	324755
1	Panel, end roof with cutouts	324756
4	Support, corner	324757
12	Support, door	324758

Parts List (cont'd)		
Kit: GM10605		
Qty.	Description	Part Number
5	Door	324759
2	Panel, side	324761
1	Door, front	324762
4	Channel, end	324766
12	Gusset, corner	324767
2	Support, baffle	324771
4	Strip, roof panel	324772
1	Support, muffler	324773
2	Stiffener, muffler support	324774
10	Brace, door	324775
5	Latch, key locking	276918
4	Support, side door	324979
4	Channel, solid	324982
1	Channel, drain (l.s.)	324980
1	Channel, drain (r.s.)	324981
2	Baffle	GM10067
2	Support, screen	324976
2	Screen	276935
2	Clamp, muffler	276936
1	Silencer, exhaust critical, 4 in.	276937
1	Clamp, manifold	276949
1	Support, exhaust	276966
2	Support	324984
1	Tube, exhaust, 40 in.	276974
1	Tube, exhaust, 4 in.	276977
5	Clamp, muffler, 4.12 in.	289372
10	Hinge, split	297601
2	Frame, air duct	324300
2	Frame, air duct	324708
1	Seal, bottom	324977
2	Seal, side	324978
1	Seal, top	324985
40	Screw, flat c'sunk, machine	353537
1	Decal	X-6301-2
2	Decal	X-6301-4
2	Decal	X-6302-2

