
INSTALLATION INSTRUCTIONS

Original Issue Date: 11/99

Model: 20-40 kW John Deere Powered
50/60 kW John Deere Powered

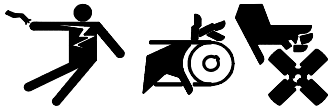
Market: Industrial

Subject: Sound Shield Enclosure Kits GM10603 and GM10604

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.

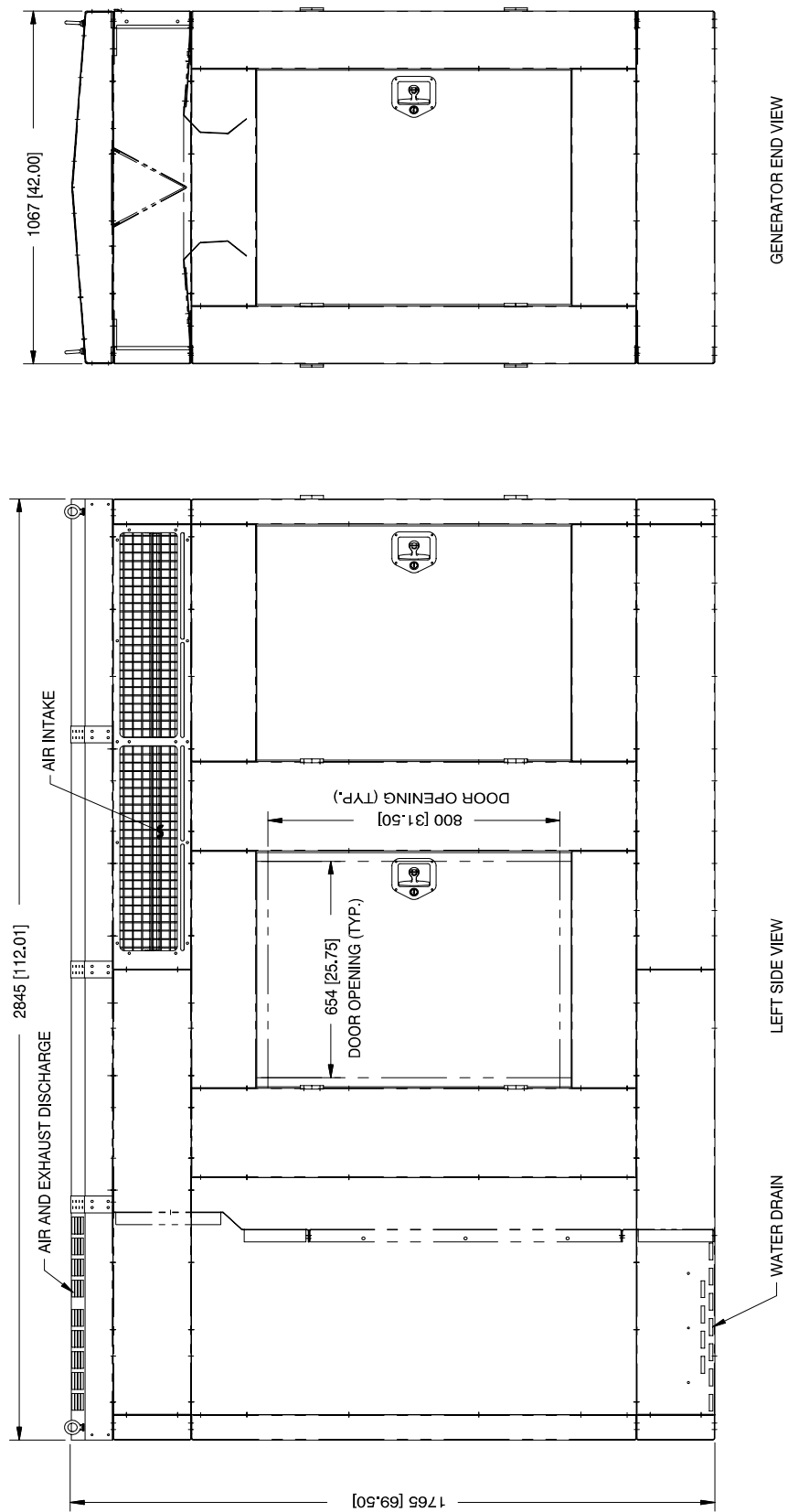
Note: If the generator set has an installed sound shield and subbase fuel tank, the assembly can be lifted as one unit provided:

- 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.

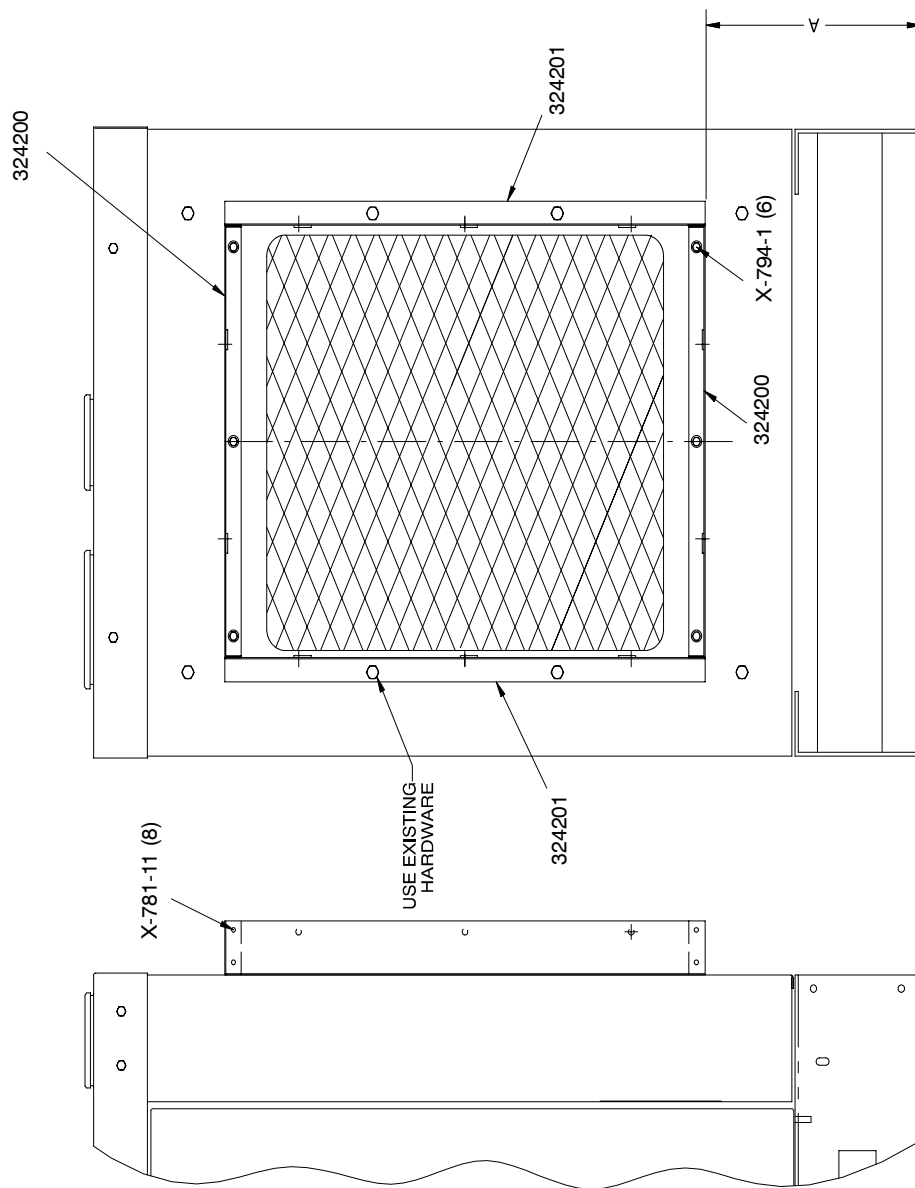
Unpack the Enclosure

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 enclosure access doors.
6. Remove the end panel, which allows access into the exhaust/air discharge plenum.
7. Remove the screws attaching the sound 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 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.



ADV-6319-E

Figure 1 Sound Shield Dimension Drawing



NOTE:
EXPENSE SCREWS, NUTS, AND WASHERS ARE LISTED AS "EXP"
AND ARE NOT SPECIFIED ON BILLS OF MATERIAL, FOR PROPER
ASSEMBLY METHOD, USE G-585 AS A GUIDELINE.

AR-324000

Figure 2 Radiator Duct Flange Mounting

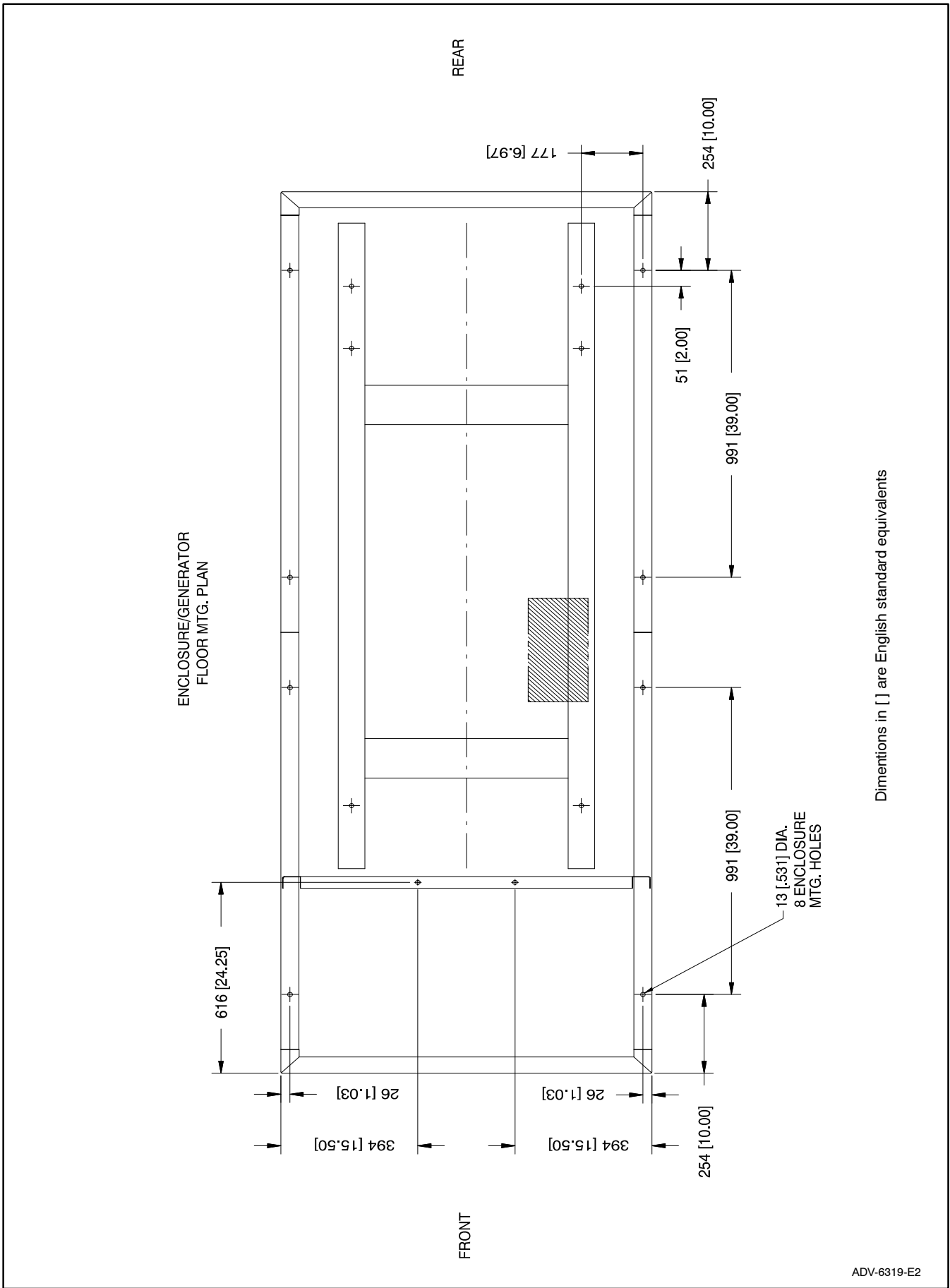


Figure 3 Sound Shield Dimension Drawing

Sound Shield Enclosure Installation

1. Lift and mount the generator set onto the mounting base.
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 the exhaust pipes (276961, 222657, 276958 or 276957). At each connection, install the exhaust clamps (286283). Do not tighten the exhaust clamps at this time.
7. Install an exhaust clamp (276948 or 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, final 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.

Parts List				
	Kits: GM10603 and GM10604		GM10603	GM10604
Qty.	Description	Common Parts	Unique Parts	
4	Screw, hex head	PNP-2300-16	X-25-124	
8	Screw, hex head	PNS-2302-1		
2	Seal, 1 1/4 in.	PNS-4000		
12	Washer, plain, .266 ID x 1 in. OD			
12	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, 2.81/3.75 in.	X-426-1		
12	Screw, hex head machine	X-465-36		
12	Retainer, nut	X-6204-5		
30	Rivet, pop, .187 in. x .325 in. aluminum		X-781-11	
30	Rivet, pop, .187 in. x .325 in. stainless	X-781-13		
202	Rivet, pop, .187 in. x .595 in. aluminum	X-781-15		
1	Tube, exhaust, 30 in.	222657		
10	Screw, hex washer head, drill	X-794-1		
4	Bracket, battery charger	324745		
1	Strap	324746		
1	Support, foam wedge	324747		
2	Strap, wedge	324812		
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	Louver, air intake	324748		
2	Baffle	324770		
1	Channel, air intake	324749		
2	Support, screen center	324751		
1	Channel, air intake	324750		
2	Louver, air intake	324752		
2	Mount, controller	241769		
1	Cap, rain	253191		
1	Silencer, exhaust critical, 3 in.	276842		
5	Support, roof	324753		
2	Panel, roof	324754		
1	Panel, roof	324755		
1	Panel, roof with cutouts	324756		
4	Support, corner	324757		
12	Support, door	324758		
5	Door	324759		
4	Support, side door	324760		
2	Panel, side	324761		
1	Door, front	324762		
4	Channel, solid	324763		
1	Channel, drain	324764		
4	Channel, end	324766		

Parts List				
	Kits: GM10603 and GM10604		GM10603	GM10604
Qty.	Description	Common Parts	Unique Parts	
12	Gusset, corner	324767		
2	Support, screen	324768		
2	Baffle		324769	
2	Support, baffle	324771		
3	Strip, roof panel	324772		
1	Channel, drain	324765		
1	Support, muffler	324773		
2	Stiffener, muffler support	324774		
10	Brace, door	324775		
2	Screen	276917		
5	Latch, key locking	276918		
2	Clamp	276921		
1	Clamp, exhaust, 3.15 in.			276948
1	Clamp, exhaust, 4.81 in.		276949	
1	Tube, flexible exhaust, 30 in.		276957	276958
1	Tube, exhaust, 3 in.	276961		
1	Support, exhaust	276966		
1	Tube, exhaust, 30 in.	276967		
5	Clamp, muffler, 3.12 in.	286283		
10	Hinge, split	297601		
2	Frame, air duct 21.52 in.	324200		
2	Frame, air duct 28 in.	324201		
1	Seal, bottom	GM10058		
2	Seal, side	324847		
1	Seal, top	GM10057		
1	Insulation, acoustic foam	336363		
40	Screw, flat c'sunk, machine	353537		
25	Foam, seal (tape) 1x3/16 (ft.)	19000 08100		
15	Insulation, fiberglass 4" (ft.)	19000 09400		
53	Foam,pvc seal tape 1x3/16 (ft.)	19010 08118		
2	Decal	X-6301-2		
1	Decal	X-6301-1		