
INSTALLATION INSTRUCTIONS

Original Issue Date: 6/00

Model: 17/22 RY

Market: Residential/Commercial

Subject: Sound Shield Enclosure Kits GM10629-KA1 and GM10629-KP1

Introduction

The Sound Shield Enclosure Kit dampens the sound produced by an operating generator set. The sound shield enclosure replaces the generator set weather housing.

The sound shield enclosure is factory-assembled. Sound shield enclosures are shipped either separately or mounted on the same skid as the generator set but not fully installed. The installer must provide four 1/2 in. concrete anchors with bolts and washers to secure the enclosure to the mounting pad. Keep the sound shield enclosure on the shipping skid or a solid flat surface until it is installed over the generator set. Follow the instructions in the generator set Operation and Installation Manual to install the generator set before installing the sound shield enclosure.



Figure 1 Sound Shield Enclosure

Read the entire installation procedure and check that the kit includes the following parts before beginning installation:

- Assembled sound shield enclosure
- Exhaust elbow with clamp
- Four 1/4-14 hex washer head drill screws
- Installation instructions

Refer to Figure 4 and the parts list at the end of this publication for replacement part numbers.

Figure 1 shows the sound shield enclosure.

Safety Precautions

⚠ WARNING

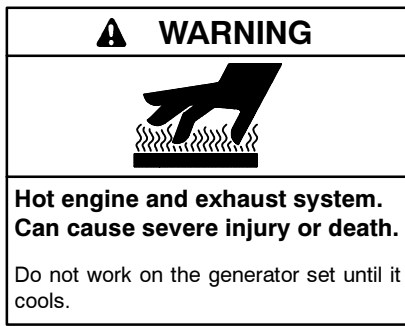


Accidental starting.
Can cause severe injury or death.

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.



Installation Procedure

1. Remove the generator set from service.

- 1.1 Move the generator set master switch to the OFF position.
- 1.2 Disconnect the battery charger.
- 1.3 Disconnect the generator set engine starting battery, negative (-) lead first.

2. Install four 1/2 in. concrete anchors in the generator set mounting pad at the locations shown in Figure 2.

3. Prepare the enclosure.

- 3.1 Mark the sound shield enclosure access doors and end panels so they can be reinstalled in their original locations.

- 3.2 Remove the sound shield enclosure access doors and end panels.

- 3.3 Remove the hardware attaching the sound shield enclosure to the shipping pallet. If the enclosure was shipped with the generator set, confirm that there are no screws attaching the enclosure to the generator set radiator shroud. See Figure 3.

- 3.4 Remove the exhaust elbow and any other shipped-loose components, packing material, and literature from inside the sound shield enclosure.

4. Move the enclosure into position.

- 4.1 Choose lifting equipment capable of handling the weight of the sound shield enclosure. The enclosure weighs approximately 200 lbs. (90.7 kg).
- 4.2 Insert lifting straps through the door openings. Use a spreader bar above the enclosure to separate the straps.
- 4.3 Lift the sound shield enclosure and position it with the roof vents over the generator set's radiator end. If the sound shield enclosure was shipped with the generator set, place the enclosure on a solid flat surface and follow the instructions in the Installation Manual to install the generator set before proceeding.

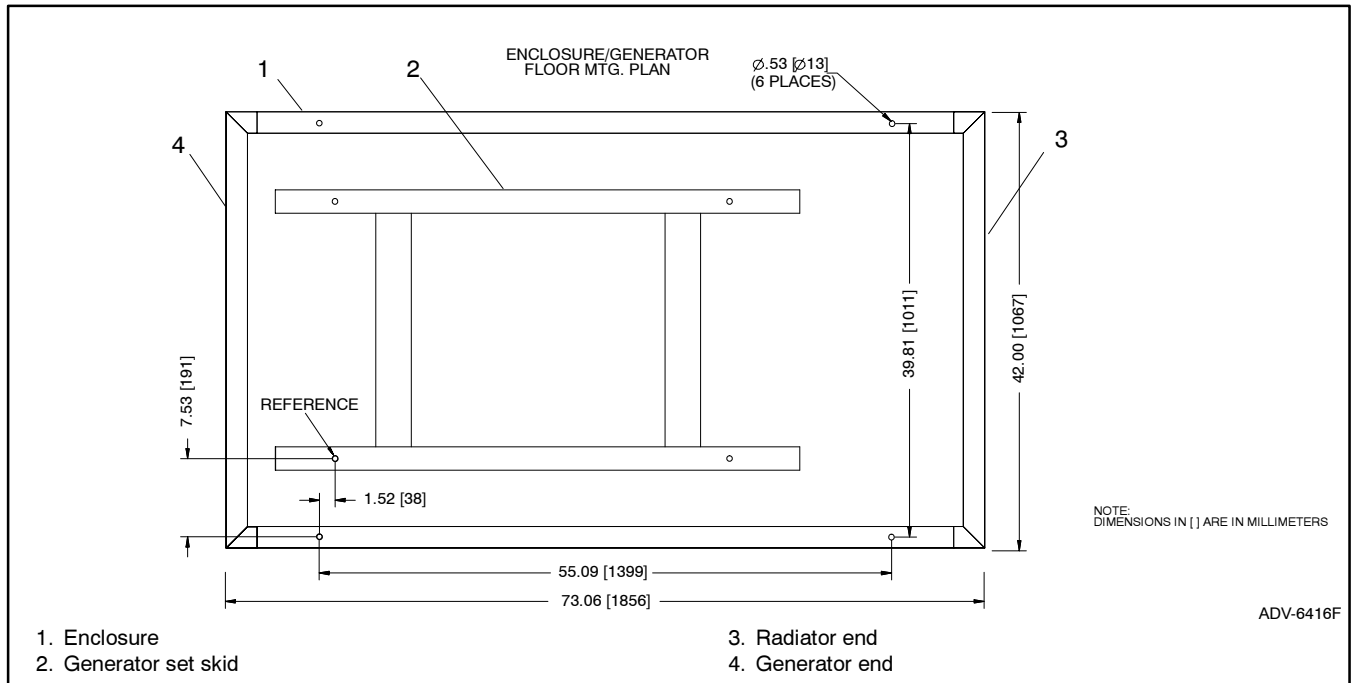


Figure 2 Mounting Pad Hole Locations

- 4.4 Lower the enclosure carefully over the generator set. Guide the enclosure to position the internal baffles and inner panels in front of the generator set radiator shroud. See Figure 3. Watch the corners for adequate clearance and align the enclosure mounting holes with the anchors in the mounting pad. Remove the hoist equipment.
 - 4.5 Install four 1/2 in. bolts with washers through the enclosure mounting holes into the anchors installed in step 2 to secure the sound shield enclosure to the mounting pad.
 - 4.6 Drive four drill screws (X-794-1) through the predrilled holes in the inner panels to attach them to the radiator shroud. See Figure 3 for the screw locations.
- 5. Install the exhaust elbow.**
- 5.1 Attach exhaust elbow GM10641 to the generator set exhaust outlet using muffler clamp X-722-5.
 - 5.2 Direct the elbow down and angled 15° toward the center as shown in Figure 3 and tighten the clamp.

6. Finalize the sound shield installation.

- 6.1 Tighten all hardware.
- 6.2 Install all sound shield enclosure access doors and end panels in their original locations.
- 6.3 Adjust the doors for fit and appearance.

7. Prepare the the generator set for operation.

- 7.1 Check that the generator set master switch is in the OFF position.
- 7.2 Reconnect the generator set engine starting battery, negative (-) lead last.
- 7.3 Reconnect power to the battery charger, if equipped.

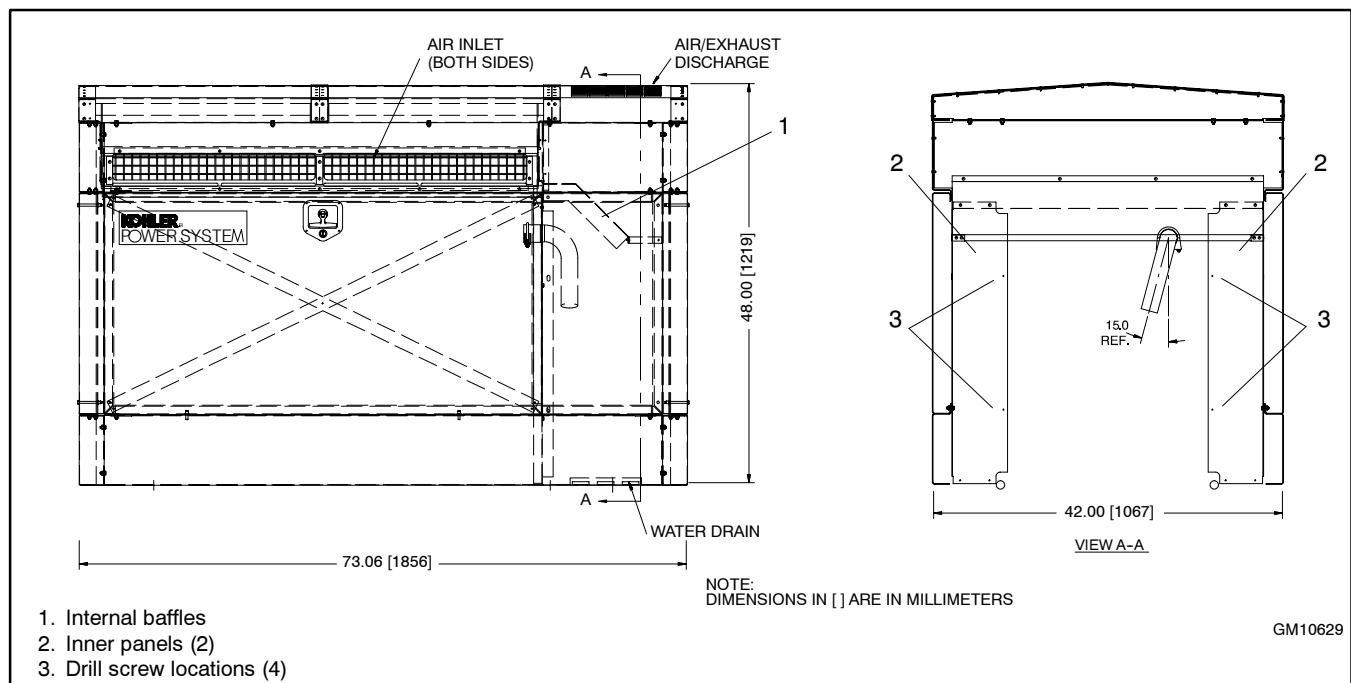


Figure 3 Sound Shield Enclosure, End Door Removed



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Parts List

Sound Shield Enclosure Kit

Kit: GM10629-KA1, GM10629-KP1		
Qty.	Description	Part Number
2	Baffle	GM10259
2	Baffle	358408
1	Baffle, inner panel	GM10263
4	Brace	358412
1	Channel, air intake	358402
1	Channel, air intake	358403
1	Channel, drain	358398
1	Channel, drain	358399
4	Channel, end	358400
1	Clamp, muffler, 2.12 in.	X-722-5
3	Decal	X-6348-2
2	Door	358413
2	Door, front & rear	358410
1	Elbow,	GM10641
12	Gusset, corner	276902
28	Insert, threaded, 1/4-20 in.	344484
2	Insulation, acoustic foam	GM10260
1	Insulation, acoustic foam	GM10265
2	Insulation, acoustic foam	358420
4	Insulation, acoustic foam	358421
2	Insulation, acoustic foam	358422
2	Insulation, acoustic foam	358423
2	Insulation, acoustic foam	358424
2	Insulation, acoustic foam	358425
2	Insulation, acoustic foam	358426
2	Insulation, acoustic foam	358427
2	Insulation, acoustic foam	358428
4	Insulation, acoustic, 41.75 x 8.25 in.	222679
2	Latch, key locking	276918
1	Panel, inner	358407
2	Panel, inner side	GM10261
1	Panel, roof	358405
1	Panel, roof	358414
1	Panel, roof	358418
2	Panel, side	358411
4	Pin, threaded	345283
154	Rivet, pop, .187 in.	X-781-15
2	Screen	GM10266
8	Screw, hex head machine	X-465-36
6	Screw, hex washer head, drill	X-794-1
2	Strip, roof panel	276909
2	Support, baffle	358409
4	Support, corner	358401
2	Support, inner panel baffle	GM10264
4	Support, roof	358404
6	Support, screen	GM10267
2	Support, screen	276906
8	Washer, fiber, .25 ID x .71 in. OD	222889
8	Washer, plain, .281 ID x .625 in. OD	X-25-142

