

INSTALLATION INSTRUCTIONS

Original Issue Date: **1/96**  
Model: **80/100 kW (Detroit Diesel Powered)**  
Market: **Industrial**  
Subject: **Weather Housing Kits PA-324177-SD,PA-324359-SD, PA-327090, PA-327091**

| Model  | Kit                     |
|--------|-------------------------|
| 80 kW  | PA-324177-SD, PA-327090 |
| 100 kW | PA-324359-SD, PA-327091 |

The weather housing kit provides weather protection for generator sets installed outdoors. Lockable housing panels prevent unauthorized personnel from tampering with the generator set. When installing the weather housing kit, observe the following safety precautions.



**Accidental starting.**  
**Can cause severe injury or death.**  
Disconnect battery cables before working on generator set (disconnect negative lead first and reconnect it last).

**Disabling generator set. Accidental starting can cause severe injury or death.** Turn generator set master switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on the generator set or connected equipment. The generator set can be started by an automatic transfer switch or remote start/stop switch unless these precautions are followed.

**WARNING**

A warning icon showing a black silhouette of a hand being burned by a hot surface, with wavy lines indicating heat or flames.

**Hot engine and exhaust system.**  
**Can cause severe injury or death.**  
Do not work on generator set until it is allowed to cool.

**Servicing exhaust system. Hot parts can cause severe injury or death.** Do not touch hot engine parts. An engine becomes hot while running and exhaust system components become extremely hot.

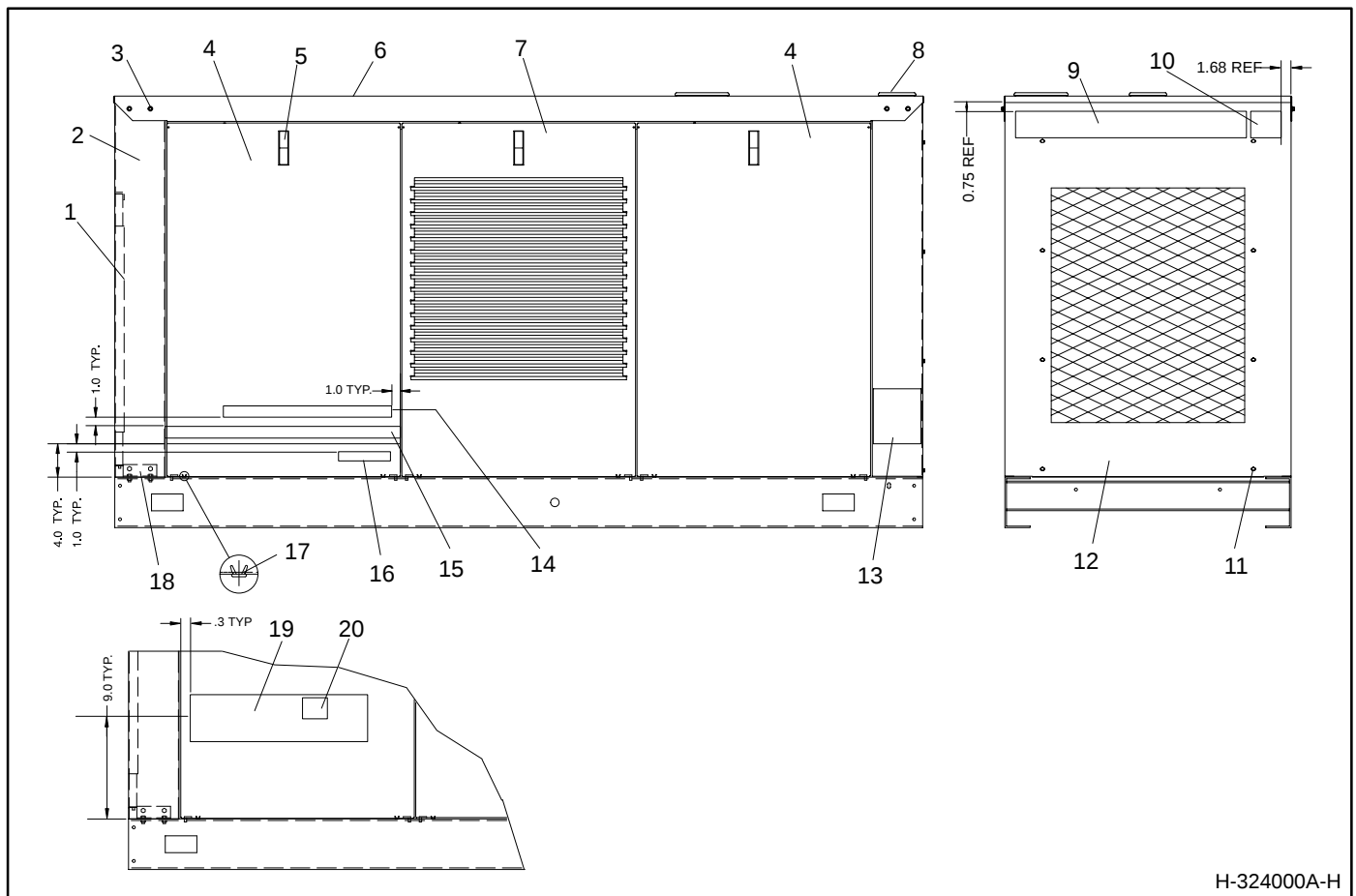
# Installation

1. Place the generator set master switch in the OFF position.
2. Disconnect generator set engine starting battery, negative (–) lead first.
3. Refer to the assembly drawing in Figure 1 to identify kit components and their relative positions.
4. Disconnect and remove exhaust silencer from the generator set if equipped.

## NOTE

The generator set skid has been predrilled to accept the weather housing components.

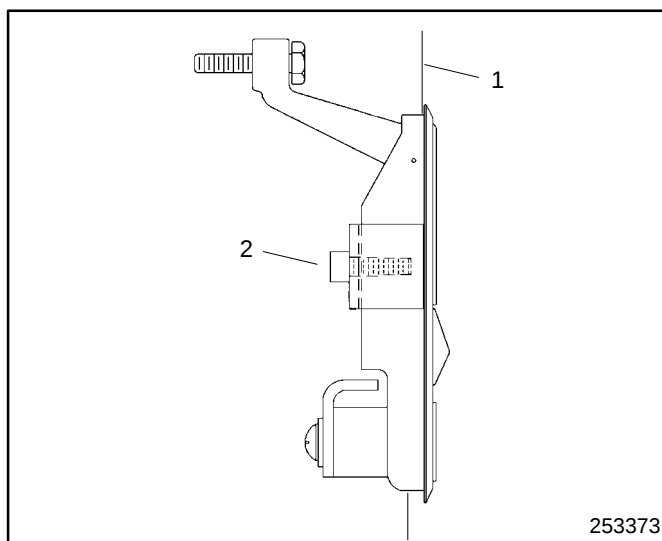
5. Secure mounting brackets (225073 and 225074) to the alternator end of the skid with screws (X-125-5), washers (X-25-85), and nuts (X-101-16).
6. Position rear housing shroud (324173) on skid and secure to mounting brackets with screws (X-125-5), washers (X-25-85), and nuts (X-101-16).
7. Remove generator set radiator guard. Discard radiator guard and save mounting hardware.
8. Install radiator shroud (324174) using hardware removed in step 7.
9. Position weather housing roof (324171) over top of unit. Secure roof to front and rear shrouds using screws (X-794-4) using holes provided.
10. Install plug (253268) into roof hole over radiator.
11. Install latches (253373) into openings in doors. See Figure 2.
12. Install four plastic plugs (253723) per door to reduce vibration. Locate two plugs on inside edge and two plugs on the bottom of the door in the holes provided.
13. Install rear door (324172-BLK or 324172-SD) on weather housing. See Figure 1.
14. Install side doors (254473-BLK or 254473-SD, and 273557-BLK or 273557-SD) on weather housing. See Figure 1 for door locations.
15. Apply decals to clean dry surfaces as shown in Figure 1.
16. Final tighten all mounting hardware.
17. Reinstall exhaust silencer if equipped.
18. Reconnect the generator set engine starting battery, negative (–) lead last.



H-324000A-H

- |                                               |                                             |
|-----------------------------------------------|---------------------------------------------|
| 1. Back door (324172-BLK or 324172-SD)        | 11. Radiator shroud hardware (use existing) |
| 2. Rear housing shroud (324173)               | 12. Radiator shroud (324171)                |
| 3. Drill screws (X-794-4)                     | 13. Decal (X-6247-9 or X-6247-10)           |
| 4. Side doors (273557-BLK or 273557-SD)       | 14. Decal (X-6246-2)                        |
| 5. Door latch (253373)                        | 15. Stripes decal (X-6232-2)                |
| 6. Housing roof (324171)                      | 16. Decal (273739)                          |
| 7. Side door vented (254473-BLK or 254473-SD) | 17. Plastic door plug (253723)              |
| 8. Radiator hole plug (253268)                | 18. Mounting brackets (225073 and 225074)   |
| 9. Decal (X-6301-3)                           | 19. Decal (X-6301-1)                        |
| 10. Decal (X-6302-1)                          | 20. Decal (X-6299-6 or X-6299-7)            |

**Figure 1. Weather Housing Assembly**



1. Door  
2. Screw

**Figure 2. Door Latch**

## Weather Housing Kit

| Parts List                                                |                          |              |              |              |            |            |
|-----------------------------------------------------------|--------------------------|--------------|--------------|--------------|------------|------------|
| Kits: PA-324177-SD, PA-324359-SD,<br>PA-327090, PA-327091 |                          |              | Unique Parts |              |            |            |
| Qty.                                                      | Description              | Common Parts | PA-324177-SD | PA-324359-SD | PA-327090  | PA-327091  |
| 8                                                         | Washer, plain            | X-25-85      |              |              |            |            |
| 8                                                         | Screw,                   | X-125-3      |              |              |            |            |
| 8                                                         | Screw, drill w/washer    | X-794-4      |              |              |            |            |
| 2                                                         | Decal, stripes           |              |              |              | X-6232-2   | X-6232-2   |
| 2                                                         | Decal, logo              |              |              |              | X-6246-2   | X-6246-2   |
| 2                                                         | Decal, kW                |              |              |              | X-6247-9   | X-6247-10  |
| 2                                                         | Decal, kW                |              | X-6299-6     |              |            |            |
| 2                                                         | Decal, kW                |              | X-6299-7     | X-6299-7     |            |            |
| 2                                                         | Decal                    |              | X-6301-1     | X-6301-1     |            |            |
| 1                                                         | Decal, logo              |              | X-6301-3     | X-6301-3     |            |            |
| 1                                                         | Decal, logo              |              | X-6302-1     | X-6302-1     |            |            |
| 1                                                         | Plug                     | 253268       |              |              |            |            |
| 7                                                         | Latch, door              | 253373       |              |              |            |            |
| 28                                                        | Plug, plastic            | 253723       |              |              |            |            |
| 2                                                         | Door, housing            |              | 254473-SD    | 254473-SD    | 254473-BLK | 254473-BLK |
| 4                                                         | Door, weather housing    |              | 273557-SD    | 273557-SD    | 273557-BLK | 273557-BLK |
| 2                                                         | Decal                    |              |              |              | 273740     | 273740     |
| 1                                                         | Bracket, mounting (r.h.) | 324141       |              |              |            |            |
| 1                                                         | Bracket, mounting (l.h.) | 324142       |              |              |            |            |
| 1                                                         | Roof, housing            | 324171       |              |              |            |            |
| 1                                                         | Door, rear housing       |              | 324172-SD    | 324172-SD    | 324172-BLK | 324172-BLK |
| 1                                                         | Shroud, rear housing     | 324173       |              |              |            |            |
| 1                                                         | shroud, radiator         | 324174       |              |              |            |            |