
INSTALLATION INSTRUCTIONS

Original Issue Date: 4/96

Model: 230-300 kW

Market: Industrial

Subject: Weather Housing Kits PA-347735-SD, PA-347736

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



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

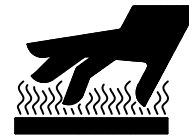


Hot coolant and steam.
Can cause severe injury or death.

Before removing pressure cap, stop generator set and allow it to cool. Then loosen pressure cap to relieve pressure.

Checking coolant level. Hot coolant can cause severe injury or death. Allow engine to cool. Release pressure from cooling system before opening pressure cap. To release pressure, cover the pressure cap with a thick cloth; then slowly turn it counterclockwise to the first stop. Remove cap after pressure has been completely released and the engine has cooled. Check coolant level at tank if generator set is equipped with a coolant recovery tank.

WARNING



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 positions.

NOTE

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

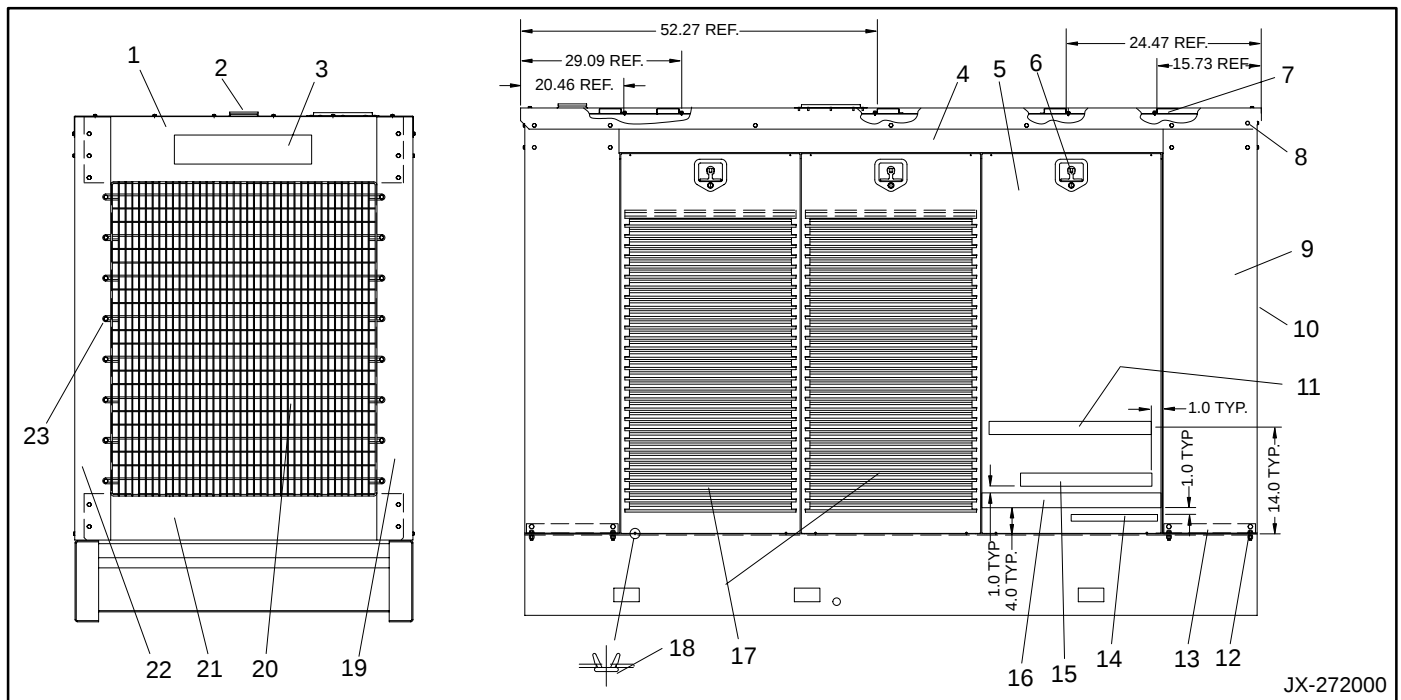
4. Allow generator set to cool.
5. Drain coolant from radiator into a suitable container. Keep coolant clean for reuse.
6. Remove drain valve from bottom of radiator.

NOTE

Pay special attention to the coolant level. After draining the coolant, allow time for complete refill of the engine water jacket. Check coolant level as prescribed in the Prestart Checklist of the Operation Manual.

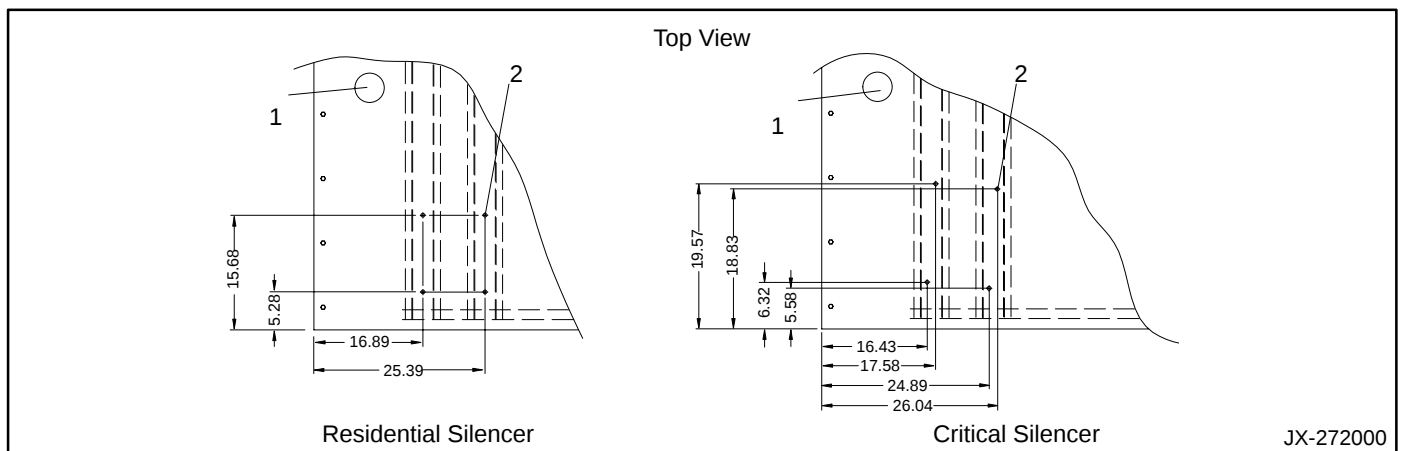
7. Remove wire core guard from front of radiator.
8. Secure mounting brackets (272736) using screws (X-125-5), washers (X-25-85), and nuts (X-101-16) to the four skid corners. Final tighten hardware. See Figure 1.
9. Attach vertical housing supports (347737 and 347738) to mounting brackets on the alternator end of the generator set using screws (X-125-5), washers (X-25-85), and nuts (X-101-16). Do not final tighten hardware.
10. Attach vertical housing supports (347446 and 347447) to mounting brackets on the radiator end of the generator set using screws (X-125-5), washers (X-25-85), and nuts (X-101-16). Do not final tighten hardware.
11. Secure front and rear rail ends (347448 and 347739) to vertical housing supports with screws (X-125-5), plain washers (X-25-85), and lock washers (X-21-1). Do not final tighten hardware.
12. Secure left and right rail sides (272734) to the vertical housing supports with screws (X-125-5) and washers (X-25-85). Do not final tighten hardware.

13. Secure the wire core radiator guard removed in step 10 to the vertical housing supports on the radiator end of the generator set with screws (X-465-16) and washers (X-25-40). See Figure 1.
14. Space roof stiffeners between the weather housing side rails as shown in Figure 1.
15. Secure roof stiffeners (272851) to the side rails with one screw (X-6216-1) per side.
16. Install roof (347740) over generator set. Attach roof to vertical supports, front and rear top supports, and side rails with screws (X-125-5) and washers (X-25-85). Do not final tighten hardware.
17. Square the upper right rear door corner and final tighten the six top bolts and two bottom bolts. Verify squareness of all door openings. Final tighten all hardware when housing is square.
18. Install adjustable door latch (272831) in each door with screws (X-781-11).
19. Install four plastic plugs (253723) in each door to reduce vibration. Locate two plugs on the bottom edge and top inside edge where the door makes contact with the side rails.
20. Install back door (272727-BLK or 272727-SD) and side doors (272729-BLK or 272729-SD and 274391-BLK or 274391-SD) according to Figure 1.
21. Secure rain disc to silencer opening in roof using pop rivets (X-781-11). See Figure 1.
22. Install plug (253268) into roof above radiator opening.
23. Attach decals to a clean, dry surface as shown in Figure 1.
24. Mount silencer as required. See instructions provided with silencer. Refer to Figure 2 for silencer mounting holes.
25. Check that the generator set master switch is in the OFF position.
26. Reconnect generator set engine starting battery, negative (–) lead last.



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| 1. Rail end (347448) | 13. Mounting bracket (272736) |
| 2. Radiator plug | 14. Decal (273739) |
| 3. Decal (X-6275-7) | 15. Decal (X-6246-1) |
| 4. Rail side (272734) | 16. Stripes (X-6232-2) |
| 5. Front side door (272729-SD or 272729-BLK) | 17. Vented side doors (274391-SD or 274391-BLK) |
| 6. Adjustable door latch | 18. Plastic door plug (253723) |
| 7. Roof stiffener | 19. Vertical housing support (347447) |
| 8. Screw, washer (X-25-85), and nut (X-21-1) | 20. Radiator guard removed from radiator |
| 9. Vertical housing support rear (347737, 347738) | 21. Rail end front (347384) |
| 10. Back door (272727-SD or 272727-BLK) | 22. Vertical housing support front (347446, 347447) |
| 11. Decal (X-6301-1) | 23. Radiator guard screws (X-465-16) and washers (X-25-40) |
| 12. Screw (X-125-5), washer (X-25-85), and nut (X-101-16) | |

Figure 1. Weather Housing Assembly



1. Radiator hole

2. .Four .531 in. (13.49 mm) dia. holes through roof and support braces

Figure 2. Weather Housing Silencer Mounting

Weather Housing Kit

Parts List				
Kits: PA-347735-SD, PA-347736			Unique Parts	
Qty.	Description	Common Parts	PA-347735-SD	PA-347736
48	Washer, lock			X-21-1
16	Washer, plain	X-25-85		
	Washer, plain		(84) X-25-85	(80) X-25-85
	Nut, elastic stop 5/16		(8) X-101-16	(12) X-101-16
	Screw, 5/16-18		(64) X-125-5	(68) X-125-5
1	Nipple, pipe 1/2 x 1 1/2	X-209-1		
1	Elbow, pipe 1/2	X-215-3		
16	Screw, h.c.	X-465-16		
36	Rivet, pop	X-781-11		
10	Screw, philips hex.	X-6216-1		
2	Decal, stripes			X-6232-2
2	Decal, logo			X-6246-1
1	Decal		X-6275-7	
2	Decal			X-6301-1
1	Plug	253268		
28	Plug, plastic door	253723		
1	Door, back		272727-SD	272727-BLK
2	Door		272729-SD	272729-BLK
2	Rail, side	272734		
4	Bracket, mounting	272736		
7	Latch, adjustable door	272831		
5	Stiffener, roof	272851		
2	Decal			273739
4	Door		274391-SD	274391-BLK
1	Disc, rain	279711		
1	Rail, end (front)	347384		
1	Support, housing front (rh)	347446		
1	Support, housing front (lh)	347447		
1	Rail, top	347448		
1	Support, housing rear	347737		
1	Support, housing rear	347738		
1	Rail, end	347739		
1	Roof, housing	347740		