

Weather Housing Kit PA-272707 & PA-279608 for 200 kW Generator Sets

The weather housing kit provides weather protection for generator sets installed outdoors. The housing panels can also be locked to prevent unauthorized personnel from tampering with the generator. When installing the weather housing kit, observe the following safety precautions.

WARNING

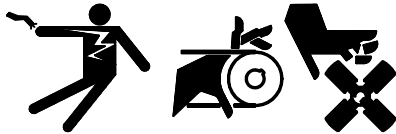
Battery gases can cause an explosion.

Do not smoke or permit flame or spark to occur near a battery at any time, particularly when it is being charged. Avoid contacting terminals with tools, etc. to prevent burns and to prevent sparks that could cause an explosion. Remove wristwatch, rings, and any other jewelry before handling battery. Never connect negative (–) battery cable to positive (+) connection terminal of starter solenoid. Do not test battery condition by shorting terminals together or sparks could ignite battery gases or fuel vapors. Any compartment containing batteries must be well ventilated to prevent accumulation of explosive gases. To avoid sparks, do not disturb battery charger connections while battery is being charged and always turn charger off before disconnecting battery connections. When disconnecting battery, remove negative lead first and reconnect it last.



WARNING

Accidental starting can cause death or serious personal injury. Turn Generator 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 any equipment connected to generator. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.



WARNING



Hot coolant can cause severe burns.

Allow engine to cool and release pressure from cooling system before opening pressure cap. To release pressure, cover the pressure cap with a thick cloth then turn it slowly counterclockwise to the first stop. After pressure has been completely released and the engine has cooled, remove cap. If generator set is equipped with a coolant recovery tank, check coolant level at tank.

Installation

1. Move generator master switch to OFF. Disconnect generator set starting battery, negative lead first.
2. Refer to the assembly drawing in Figure 1 to identify kit components and their relative position.

NOTE

The generator skid has been pre-drilled to accept the weather housing components. No additional drilling is necessary to install the weather housing kit.

3. After engine has cooled, release radiator pressure by removing cap. See "Warning" above. Open radiator petcock to drain radiator coolant. Remove petcock and reducer bushing from radiator and install elbow (X-215-1), coupling (X-216-20), nipple (X-209-2), and pipe (X-209-17) as shown in Figure 1. Reinstall reducer bushing and petcock in coupling. Refill cooling system with fresh coolant.

4. Position radiator shroud supports (272704–right, 272705–left) on skid and against radiator. If installing kit 279608, use radiator supports 279610. Secure radiator support(s) to radiator with screws (X–125–3), flat washers (X–25–85), and lock washers (X–20–1). Secure radiator supports to skid with screws (X–125–5), washers (X–25–85), and lock washers (X–20–1). Do not final tighten.
5. Attach radiator shroud (272703 or 279609) to shroud support brackets with screws (X–125–3), flat washers (X–25–85) and lock washers (X–21–1). Do not final tighten.
6. Align mounting brackets (258439–right, 258823–left) with holes in alternator end of skid. Secure mounting brackets with screws (X–125–5), flat washers (X–25–85), and elastic stop nuts (X–101–16). Do not final tighten.
7. Using screws (X–465–16), lock washers (X–20–1), flat washers (X–25–40), and hex nuts (X–81–1), attach rear housing supports (258475 and 258431) to mounting brackets installed in step 5. Do not final tighten.
8. Attach end rail (258478) to rear housing supports using screws (X–125–5), flat washers (X–25–85), and elastic stop nuts (X–101–16). Do not final tighten.
9. Attach side rails (258477) to housing supports on radiator and alternator ends of skids. Secure side rails with screws (X–125–5), flat washers (X–25–85), and elastic stop nuts (X–101–16). Use a square to verify that side rails and vertical supports are at right angles. This step is necessary to insure housing doors fit properly. After "squaring" support members, tighten all mounting hardware installed in previous steps.
10. Remove/disconnect silencer and mounting components as necessary to perform steps 10 and 11.
11. Position roof stiffeners (258258) between housing side rails. Install one stiffener under each muffler mounting bracket (if used – see Figure 1 for silencer mounting hole location). The remaining stiffeners should be equally spaced over the length of the housing. Secure stiffener on one end with drill screw (X–794–2). After roof is attached in next step fasten the remaining end of each stiffener to side rail with drill screws (X–794–2)
12. Install housing roof (272706) using hex drill screws (X–794–1) and hex screws (X–125–5) with elastic washers (X–25–85) and elastic stop nuts (X–101–16). Be sure roof openings align with silencer/radiator ports on generator.
13. Reconnect silencer and mounting components.
14. Position rear mounting bracket (258440) on alternator end of housing as shown in Figure 1. Secure to skid with screws (X–465–16), flat washers (X–25–40), lock washers (X–20–1), and hex nuts (X–81–1).
15. Attach latch (256461) to each door handle with screw (X–465–7), flat washer (X–25–40), and elastic stop nut (X–101–8). Latch handle must be in position shown in Figure 1 during installation.
16. Install four plastic plugs (253723) in each door. Two plugs should be installed on bottom edge of door and two should be installed on top inside edge of door where door contacts side rails.
17. With generator master switch still in the OFF position, reconnect generator starting battery (negative lead last).
18. Install side doors (258432 and 258433) and end door (258430); secure each door with latch. If doors do not fit properly, loosen housing support hardware and "resquare" housing supports.
19. Attach decals (273740, X–6232–2 and X–6246–2) on housing doors in positions shown.
20. Install radiator plug (253268) in opening in housing roof above radiator.
21. Move generator master switch to normal operating position.

PARTS LISTING

Description	Qty.	Part No.	
		PA-272707	PA-279608
Nut, elastic stop 5/16–18	34	X–101–16	X–101–16
Nut, elastic stop 10–24	14	X–101–8	X–101–8
Screw, hex head	8	X–125–3	X–125–3
Screw, HC 5/16–18 x 1	42	X–125–5	X–125–5
Washer, lock 1/4	4	X–20–1	X–20–1
Pipe	1	X–209–17	X–209–17
Nipple, 1/2 x 1–3/16	1	X–209–2	X–209–2
Washer, lock 5/16	8	X–21–1	X–21–1
Elbow, pipe 1/2	1	X–215–1	X–215–1
Coupling, pipe 1/2	1	X–216–20	X–216–20
Washer, flat 9/32 x 5/8 x 1/16	32	X–25–40	X–25–40
Washer, flat 11/32 x 11/16 x 1/16	84	X–25–85	X–25–85
Screw, HC 1/4–20 x 3/4	4	X–465–16	X–465–16
Screw, RHM 1/4–20 x 1	14	X–465–7	X–465–7
Decal, stripes	2	X–6232–2	X–6232–2
Decal, Kohler Power Systems	2	X–6246–2	X–6246–2
Screw, drill hex 1/4 – 1/4	18	X–794–1	X–794–1
Screw, drill #8–18	24	X–794–2	X–794–2
Nut, hex 1/4–20	4	X–81–1	X–81–1
Plug, plastic	28	253723	253723
Plug, radiator	1	253268	253268
Stiffener, roof	6	258258	258258
Door, back	1	258430	258430
Support	1	258431	258431
Door	4	258432	258432
Door, side	2	258433	258433
Bracket, mounting	1	258439	258439
Bracket, rear housing	1	258440	258440
Support, rear housing	1	258475	258475
Rail, side	2	258477	258477
Rail, end	1	258478	258478
Bracket, mounting	1	258823	258823
Latch	7	256461	256461
Shroud, radiator	1	272703	279609
Support, radiator shroud – right	1	272704	–
Support, radiator shroud – left	1	272705	–
Support, radiator shroud	2	–	279610
Roof	1	272706	272706
Decal, Fast Response	2	273740	273740

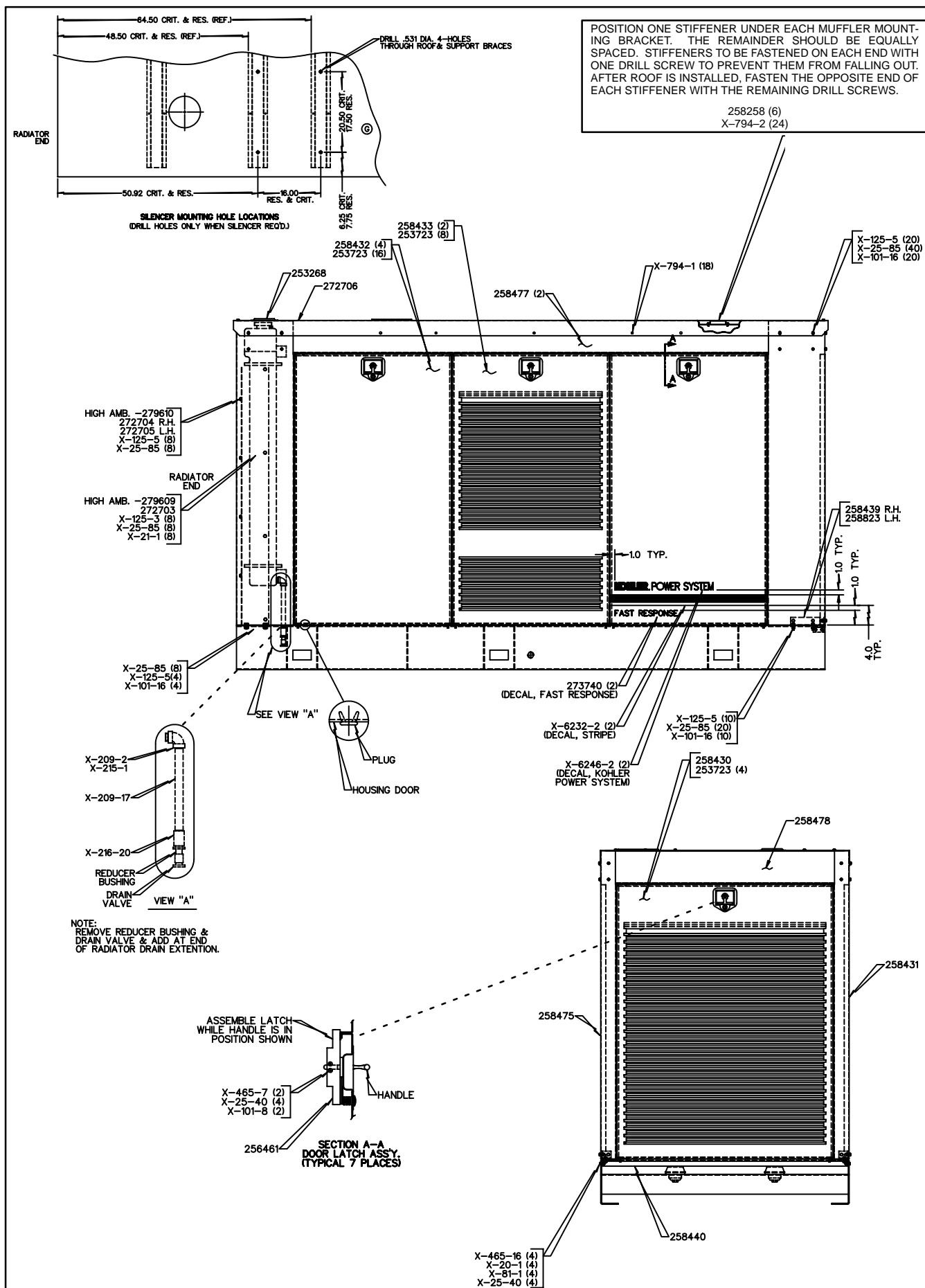


Figure 1. Weather Housing Installation