



Weather Housing Kit PA-258467 for 180-250 kW FR II Generator Sets

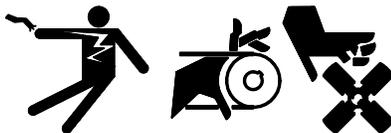
The weather housing kit provides weather protection for generator sets installed outdoors. The housing panels can also be locked to prevent unauthorized personnel from tampering with the generator. When installing the weather housing kit, observe the following safety precautions.

⚠ 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.

⚠ CAUTION



Hot parts can cause personal injury. Avoid touching generator field or exciter armature. Generator field and exciter armature will get hot if shorted.

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. Position radiator shroud supports (258426 – right, 258466 – left) on skid and against radiator. Secure radiator supports to radiator with screws (X-125-3), flat washers (X-25-85), and lock washers (X-21-1). Secure radiator supports to skid with screws (X-125-5), washers (X-25-85) and elastic stop nuts (X-101-16) Do not final tighten.
4. Attach radiator shroud (258425) to shroud support brackets with screws (X-125-3), flat washers (X-25-85), and lock washers (X-21-1). Do not final tighten.
5. 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.
6. Using screws (X-465-16), flat washers (X-25-40), and elastic stop nuts (X-101-8), attach rear housing supports (258475 and 258431) to mounting brackets installed in step 5. Do not final tighten.
7. 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.
8. 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.
9. Remove/disconnect silencer and mounting components as necessary to perform steps 10 and 11.
10. Position roof stiffeners (258258) between housing side rails. Install one stiffener under each muffler mounting bracket (if used). The remaining stiffeners should be equally spaced over the length of the housing. Secure stiffener on one end with drill screw (X-794-2).
11. Install housing roof (258429) using drill screws (X-794-1) and hex screws (X-125-5) with flat washers (X-25-85), and elastic stop nuts (X-101-16). Be sure roof openings align with silencer/radiator ports on generator.
12. Reconnect silencer and mounting components.
13. 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), and elastic stop nuts (X-101-8).
14. 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.
15. 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.
16. With generator master switch still in the OFF position, reconnect generator starting battery (negative lead last).
17. 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.
18. Final tighten all weather housing hardware.
19. Attach decals (X-6232-2 and 255084), and nameplate (241541) on housing doors in position 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.
Nut, elastic stop 5/16-18	34	X-101-16
Nut, elastic stop 1/4-20	18	X-101-8
Screw, hex head 5/16-18	16	X-125-3
Screw, HC 5/16-18 x 1	34	X-125-5
Washer, lock 5/16	16	X-21-1
Washer, flat 9/32 x 5/8 x 1/16	4	X-25-40
Washer, flat 11/32 x 11/16 x 1/16	56	X-25-85
Screw, H.C. 1/4-20 x 3/4	4	X-465-16
Screw, R.H.M. 10-24 x 1	14	X-465-7
Decal, stripes	2	X-6232-2
Screw, drill hex 1/4-1/4 x 3/4	18	X-794-1
Screw, drill #8-18	24	X-794-2
Nameplate	2	241541
Plug, plastic	1	253268
Plug, radiator	28	253723
Decal, Fast Response	2	255084
Stiffener, roof	6	258258
Shroud, radiator	1	258425
Support, radiator shroud (right)	1	258426
Roof	1	258429
Door, end	1	258430
Support	1	258431
Door	4	258432
Door, side	2	258433
Bracket, mounting	1	258439
Bracket, rear housing	1	258440
Support, radiator shroud (left)	1	258466
Support, rear housing	1	258475
Rail, side	2	258477
Rail, end	1	258478
Bracket, mounting	1	258823
Latch	7	256461

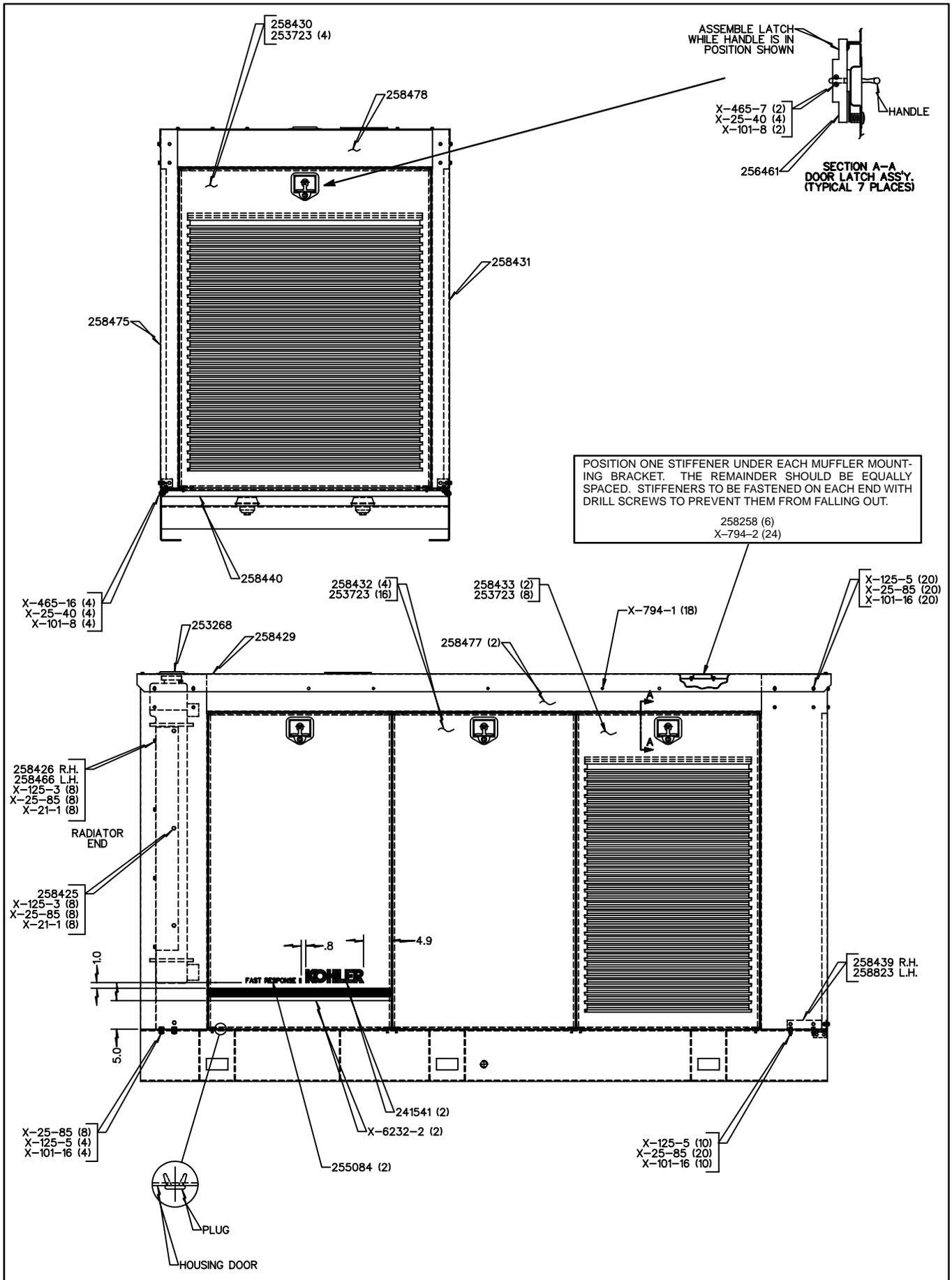


Figure 1. Weather Housing Components