
INSTALLATION INSTRUCTIONS

Heavy-Duty Air Cleaner Kits PA-279283 and PA-279283-SD (Detroit Diesel Engine 12V-71) 450 kW Models

The heavy-duty air cleaner kit provides extended protection beyond the standard air cleaner. It is well suited for dusty/dirty environments. For determining the proper replacement cycle, the optional air cleaner restriction indicator is recommended.

NOTE

The heavy-duty air cleaners will require a minimum of 27 in. (686 mm) of clearance beyond the air cleaner assembly in order to service the air cleaner elements.



Accidental starting.

Can cause severe injury or death.

Disconnect battery cables before working on generator set (negative lead first and reconnect it last).

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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 engine and exhaust system. Can cause severe injury or death.

Do not work on generator set until unit is allowed to cool.

Hot parts can cause severe injury or death. Do not touch hot engine parts. An engine gets hot while running and exhaust system components get extremely hot.

Installation

1. Move generator master switch to OFF position. Disconnect battery of generator set, negative lead first.
2. Remove existing engine air cleaner, mounting bracket, and piping, as applicable.
3. Install mounting brackets (279284 and 279285) to sides of engine as indicated in Figure 1. Use existing engine hardware as appropriate.
4. Assemble two hump hoses (279744) to turbocharger inlet using existing hose clamps. Place two hose clamps (254013) over hump hose.
5. Slide four air cleaner brackets (291666) over air cleaner assemblies (A-279713).
6. Place air cleaner assembly onto hump hose and while supporting weight of air cleaner assembly, attach air cleaner brackets (291666) to mounting brackets using existing hardware. Do not final tighten air cleaner brackets.
7. Install rain caps (272674) to air cleaner assemblies and tighten hose clamps.
8. After aligning air cleaner assemblies, final tighten air cleaner brackets (291666). Air cleaner assembly inlet should be vertically aligned. Final tighten remaining hose clamps.
9. Check to make sure the generator master switch is in the OFF position. Reconnect the generator set battery, negative lead last.

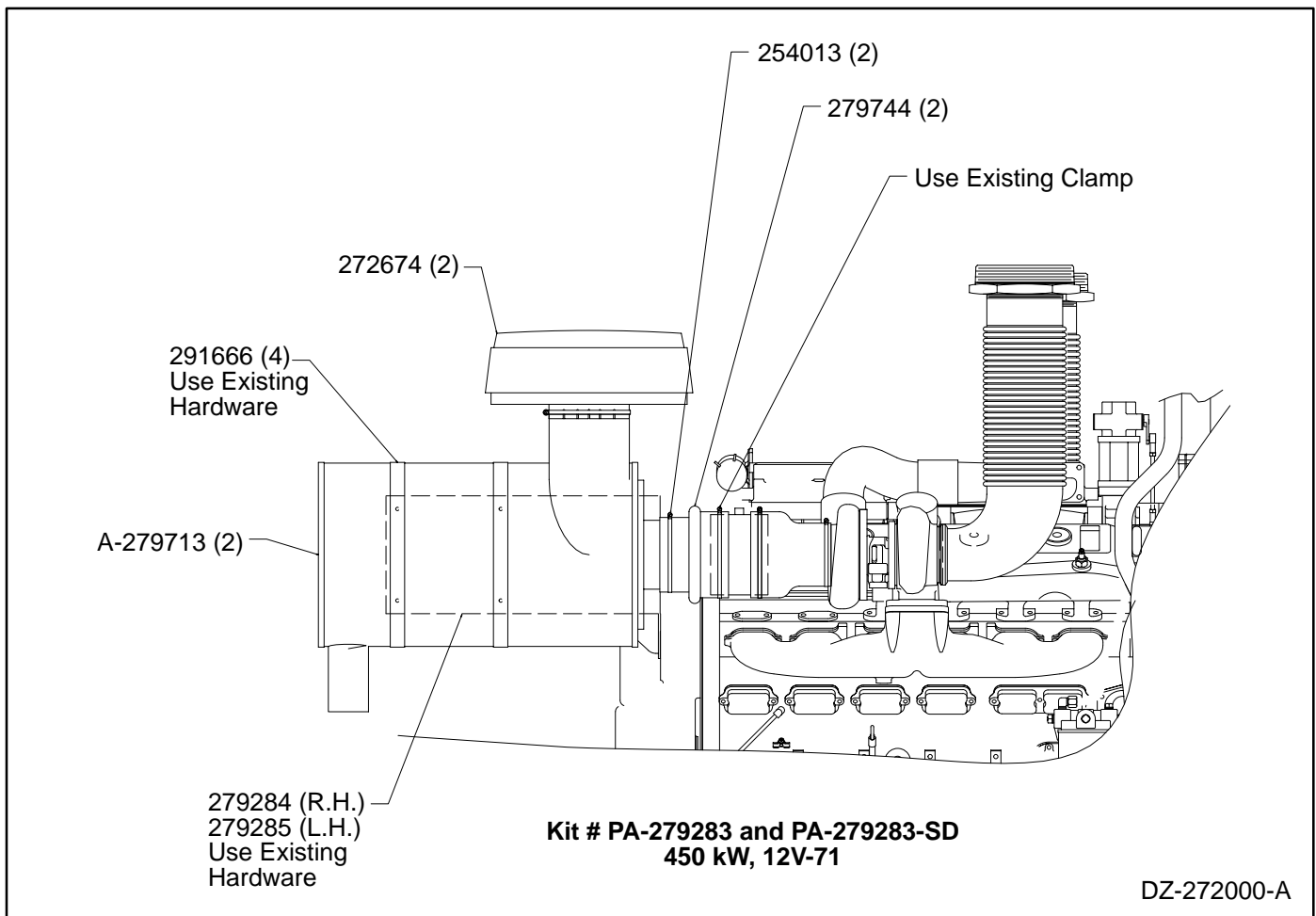


Figure 1. Heavy-Duty Air Cleaner Kit Installation.

Parts List		
Qty.	Description	Part No.
1	Bracket, mounting (RS)	279284
1	Bracket, mounting (LS)	279285
2	Air cleaner assembly	A-279713
2	Element, primary	279736
2	Element, secondary	279737
4	Bracket, air cleaner	291666
2	Hose, hump	279744
2	Clamp, hose	254013
2	Cap, rain	272674