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## INSTALLATION INSTRUCTIONS

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### Heavy-Duty Air Cleaner Kits PA-279769 and PA-279769-SD 900-1200 kW (Detroit Diesel Engines 12V-149TI and 12V-149TIB)

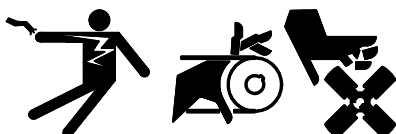
The heavy-duty air cleaner kit provides extended protection beyond the standard air cleaner. It is well suited for dusty/dirty environments. For determining the proper replacement cycle, the optional air cleaner restriction indicator is recommended.

#### 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.



#### WARNING



#### Accidental starting.

#### Can cause severe injury or death.

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

#### Accidental starting can cause severe injury or death.

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.

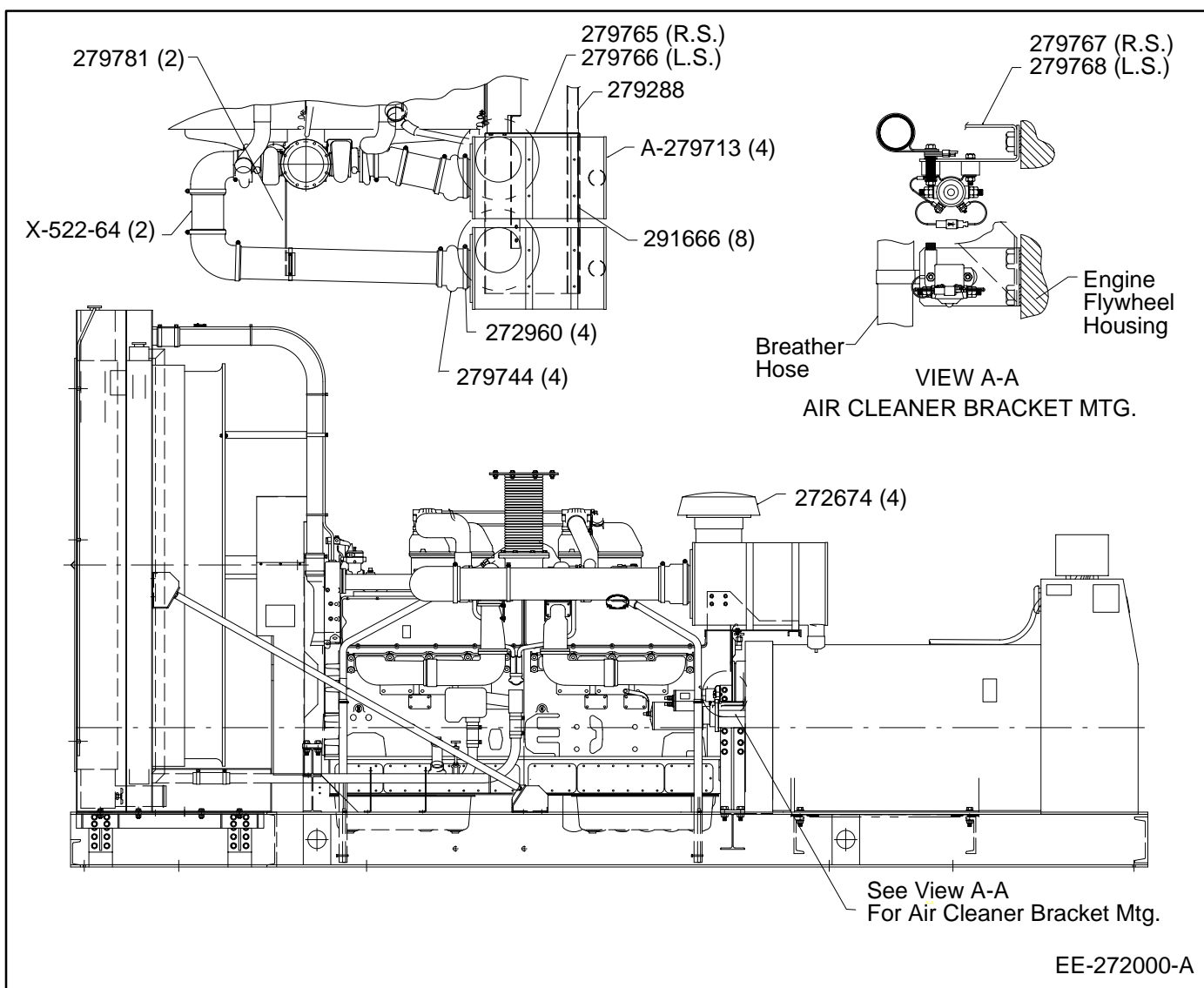
Do not work on generator set until unit is allowed to cool.

**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 (279765 and 279766) and support brackets (279767 and 279768) from kit on sides of engine indicated in Figure 1. Use engine flywheel housing attaching bolts as noted on View A-A in Figure 1.
4. Attach two hose support brackets (279781) to engine using existing hardware.  
  
Assemble two steel tubes (X-522-64), four hump hoses (279744) and four hose clamps (272960) to engine. Use existing hardware and piping as shown in Figure 1. Do not tighten hose clamps at this time.
5. Install four air cleaner assemblies (A-279713) to mounting brackets using eight air cleaner brackets (291666). Do not tighten air cleaner brackets at this time. Place mounting bracket support (299288) under mounting brackets and attach using existing hardware.
6. Install four rain caps (272674) on air cleaner inlets and tighten hose clamps.
7. After aligning air cleaner assemblies, final tighten air cleaner brackets (291666). Final tighten remaining hose clamps. Air cleaner assembly inlet should be vertically aligned.
8. Check to make sure the generator master switch is in the OFF position. Reconnect the generator set battery, negative lead last.

Parts List		
Qty.	Description	Part No.
1	Bracket, mounting (RS)	279765
1	Bracket, mounting (LS)	279766
1	Bracket, support (RS)	279767
1	Bracket, support (LS)	279768
2	Bracket, hose support	279781
4	Air cleaner assembly	A-279713
4	Element, primary	279736
4	Element, secondary	279737
8	Bracket, air cleaner	291666
4	Hose, hump	279744
2	Tube, steel	X-522-64
4	Clamp, hose	272960
4	Cap, rain	272674
1	Support, mounting bracket	279288



**Figure 1. Heavy-Duty Air Cleaner Kit Installation.**