

INSTALLATION INSTRUCTIONS

**Restriction Gauge Kits
For 20-1600kW Standby Generator Sets**

Kits:

PA-274608	PA-328005
PA-274609	PA-279609-SD
PA-279828	PA-279828-SD
PA-279830	PA-279830-SD
PA-299964	PA-328005-SD

Installation of the restriction gauge kit will allow monitoring of air flow through the air cleaner. Decreased air flow indicates a clogged air filter element.

The gauge continuously displays restriction readings indicated as vacuum (see Figure 1). As maximum allowable restriction is reached, the gauge window will turn red indicating replacement of the air filter element is required. To reset the gauge, push the gauge top down and release.

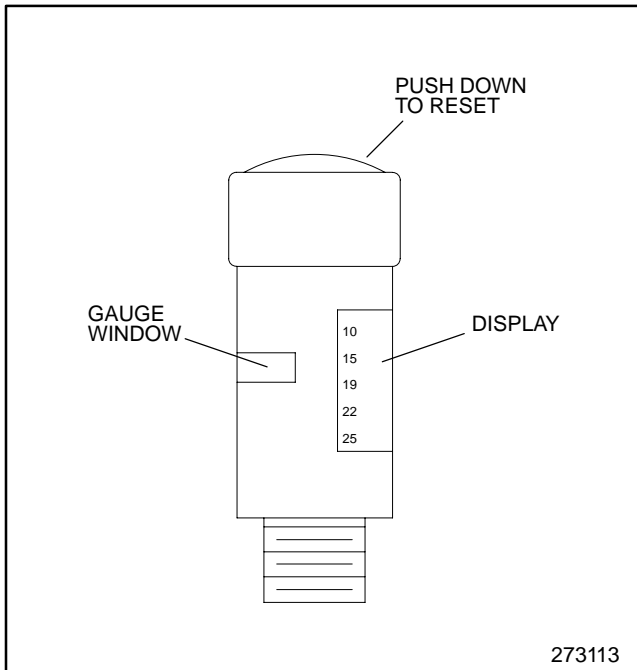
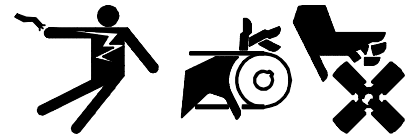


Figure 1. Restriction Gauge

⚠ 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/RESET position and disconnect battery, negative lead first. Allow generator set to cool.

NOTE

The following installation procedure applies to all kits except PA-328005 and PA-328005-SD.

2. Remove cap(s) from fitting(s) on air cleaner/air intake tubing.
3. Install 1/8-in. NPSC x 0.81-in. pipe coupling (X-216-24) on fitting(s), see Figure 2.

NOTE

Use thread sealant on all threaded connections to prevent leakage.

4. Kits PA-274608 and PA-299964 only: Install 1/8-in. NPT 45° street elbow (X-274-4) in pipe coupling(s).
5. Install restriction gauge (273377) in pipe coupling/elbow.
6. Reconnect battery cables, negative lead last.

INSTALLATION

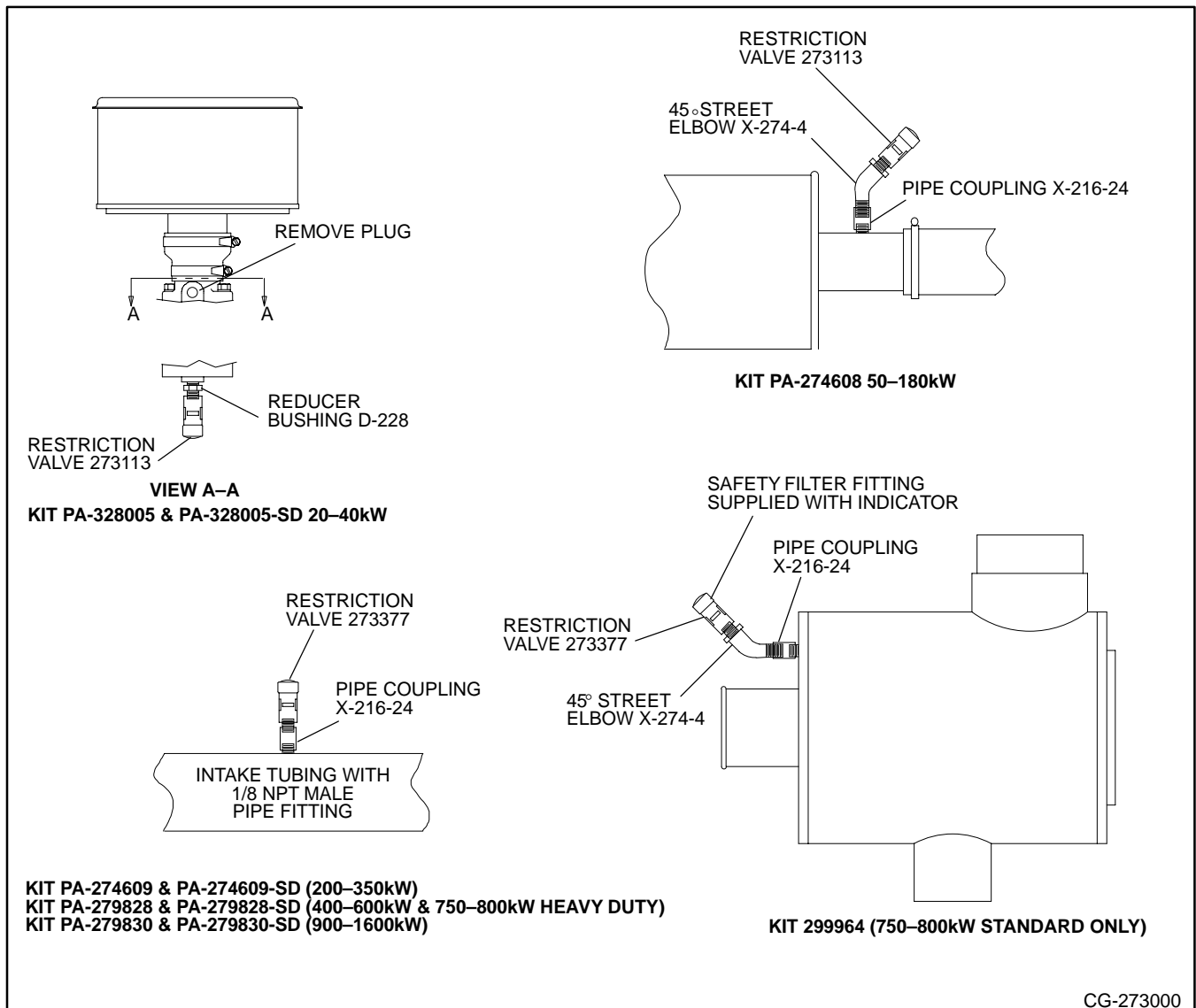
(KITS PA-328005 & PA-328005-SD)

1. Remove plug from air intake and install reducer bushing (D-228).

NOTE

Use thread sealant on all threaded connections to prevent leakage.

2. Install restriction gauge (273113) in reducer bushing.
3. Reconnect battery cables, negative lead last.



CG-273000

Figure 2. Restriction Gauge Installation

Parts List

Part Number Description	PA-274608	PA-299964	PA-274609 PA-274609-SD	PA-279828 PA-279828-SD	PA-279830 PA-279830-SD	PA-328005 PA-328005-SD
X-216-24 Coupling, pipe	1	2	1	2	4	
273377 Gauge, restriction		2	1	2	4	
273113 Gauge, restriction	1					1
X-274-4 Elbow, street, 45°	1	2				
D-228 Bushing, reducer						1