



**7CCKM (227556) RV/MOBILE  
Summer–Winter Air Cleaner Kit**

The winter–summer kit improves generator set operation in cold weather by routing warm air from the engine exhaust manifold to the engine air intake. The warmed intake air improves cold weather performance and helps to prevent carburetor freeze–up.



**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.** Disconnect 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 remote start/stop switch unless this precaution is followed.

**WARNING**

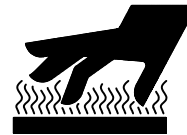


**Fire.**  
**Can cause severe injury or death.**

Do not smoke or permit flame or spark to occur near fuel or fuel system.

**A sudden backfire can cause severe injury or death.** Do not operate with air cleaner removed.

**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. If removing the generator set from a coach, move controller master switch to STOP position. Disconnect battery of generator set, negative lead first. Disconnect fuel lines, load leads, electrical leads, and exhaust system. Remove the generator set from the coach according to the procedure supplied by the coach manufacturer.
2. Release latches and remove air cleaner cover. Carefully remove air cleaner element from base. Protect element from dirt/dust contamination until installation.
3. Remove three screws from air cleaner base (two screws are in front, mounted to the controller box and one screw is in back, mounted to the stator assembly). Discard air cleaner base, save mounting hardware.
4. Replace with new air cleaner base (A-227548) supplied in kit. Mount air cleaner base by re-using existing hardware.

### NOTE

New air cleaner base includes a lever. Move to up-position for winter operation, below 45°F (7°C) and down-position for summer operation, above 45°F (7°C).

5. Replace air cleaner element and air cleaner cover.
6. Remove hood to expose engine end of unit.
7. Remove existing closure plate on engine and discard. See Figure 1 for proper location. Mount air intake tube (227553) re-using existing mounting hardware.
8. Secure air intake tube to intake manifold using screw (X-67-115). See Figure 1 for proper location.
9. Connect heat duct tube (227549) to end of air intake tube using clamp (X-426-19).
10. Install adapter (227545) into the other end of the heat duct tube. Attach heat duct tube to the

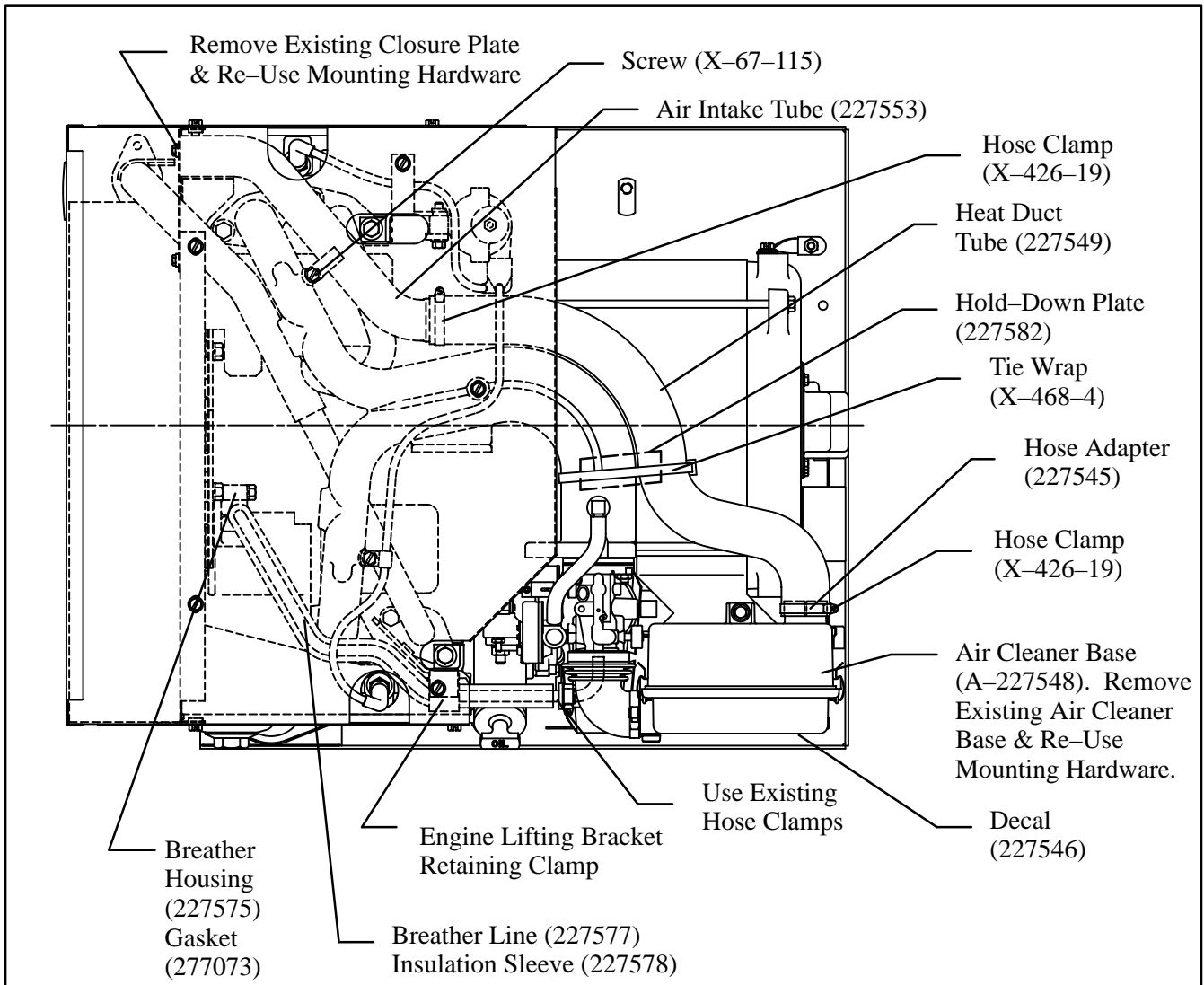
air cleaner inlet using clamp (X-426-19). Secure heat duct tube to intake manifold using tie wrap (X-468-4) and positioning hold-down plate (227582) between tie wrap and intake manifold. See Figure 1.

11. Install winter-summer decal (227546) at position shown in Figure 1.
12. Disconnect rubber breather hose and plastic hose adapter at carburetor rubber elbow.
13. Remove breather hose from retaining clamp on engine lifting bracket.
14. Remove hose clamp attached to breather housing on gear cover. Discard breather hose and adapter, save clamp.
15. Remove breather housing by removing two nuts. Discard breather housing, save mounting hardware.
16. Replace with new breather housing (227575) and gasket (227073) Remount using existing hardware.
17. Install red insulating sleeve (227578) over copper tube (227577).
18. Slide breather hose retaining clamp onto copper tube and over insulation (227578).
19. Install plastic hose adapter end of copper tube (227577) completely into air cleaner's rubber pleated hose. Tube end must point into carburetor. Secure with clamp which was removed in step 14, see Figure 1 for proper position.

### NOTE

Make sure choke operates freely after installation.

20. Attach copper tube to breather housing by sliding down into place.
21. Locate copper tube through retaining clamp on engine lifting bracket.
22. Reposition and install hood. Connect generator battery, negative lead last. Connect fuel line, load lead, remote leads, and exhaust system.



**Figure 1. 7kW Installation Drawing**

**Kit 227556 7kW**

<b>DESCRIPTION</b>	<b>QTY.</b>	<b>PART #.</b>
Air Cleaner Base Assy.	1	A-227548
Heat Duct Tube	1	227549
Air Intake Tube	1	227553
Decal	1	227546
Hose Adapter	1	227545
Hose Clamp	2	X-426-19
Screw	1	X-67-115
Breather Housing	1	227575
Copper Breather Line	1	227577
Insulation Sleeve	1	227578
Tie Wrap	1	X-468-4
Gasket	1	277073
Hold-Down Plate	1	227582

**Gasoline Models Only:** Depending upon local operating temperatures, adjustment of the engine's choke may be necessary. Follow the procedure outlined below for settings (above and below 10°F or -12.2°C).

### **Choke Adjustment Procedure**

#### **For Operation above 10°F (-12.2°C)**

(From original factory-set position)

1. Where the choke casting mark meets the black plastic cover of the choke, make a scribe mark on the choke's black cover. See Figure 2.
2. Loosen the two choke adjusting screws and rotate choke cover counter-clockwise towards leaner setting (follow direction of arrow on choke).
3. When the distance between the scribe mark on the black cover and the casting mark is 5/16 in. (8 mm) tighten the two choke adjusting screws.

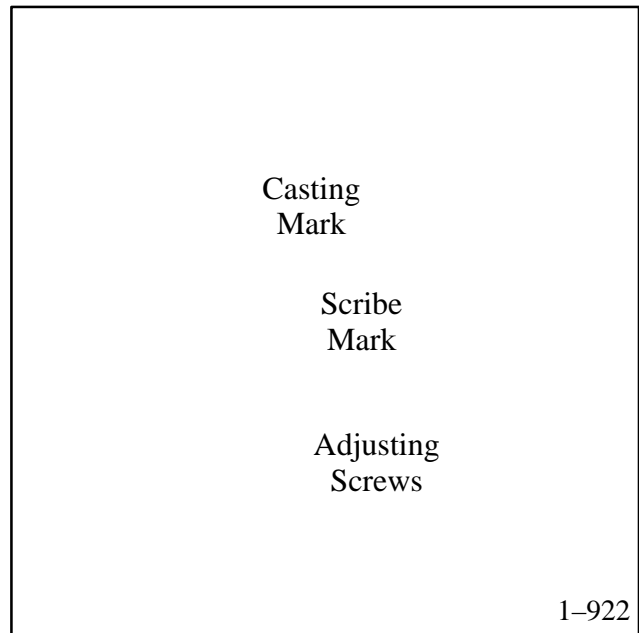
### **Choke Adjustment Procedure**

#### **For Operation below 10°F (-12.2°C)**

#### **NOTE**

If not previously adjusted, leave as factory set. Otherwise, follow procedure.

1. If scribe mark has been made on the choke's black cover, loosen the two choke adjusting screws and rotate choke cover clockwise (opposite direction of arrow on choke).
2. When the scribe mark on the black plastic cover of the choke and the choke casting mark line up, tighten the two adjusting screws.



**Figure 2. Typical Choke Adjustment Location**