



**INSTALLATION INSTRUCTIONS**

**Summer/Winter Air Cleaner Kit 227836  
7CCKM RV/Mobile**

The summer/winter air cleaner 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.

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



**WARNING**

**Accidental starting.**  
**Can cause severe injury or death.**

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

<b>⚠ WARNING</b>
<p><b>Hot engine and exhaust system.</b> <b>Can cause severe injury or death.</b></p> <p>Do not work on generator set until unit is allowed to cool.</p>

**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.

**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**

<b>⚠ WARNING</b>
<p><b>Fire.</b> <b>Can cause severe injury or death.</b></p> <p>Do not smoke or permit flame or spark to occur near fuel or fuel system.</p>

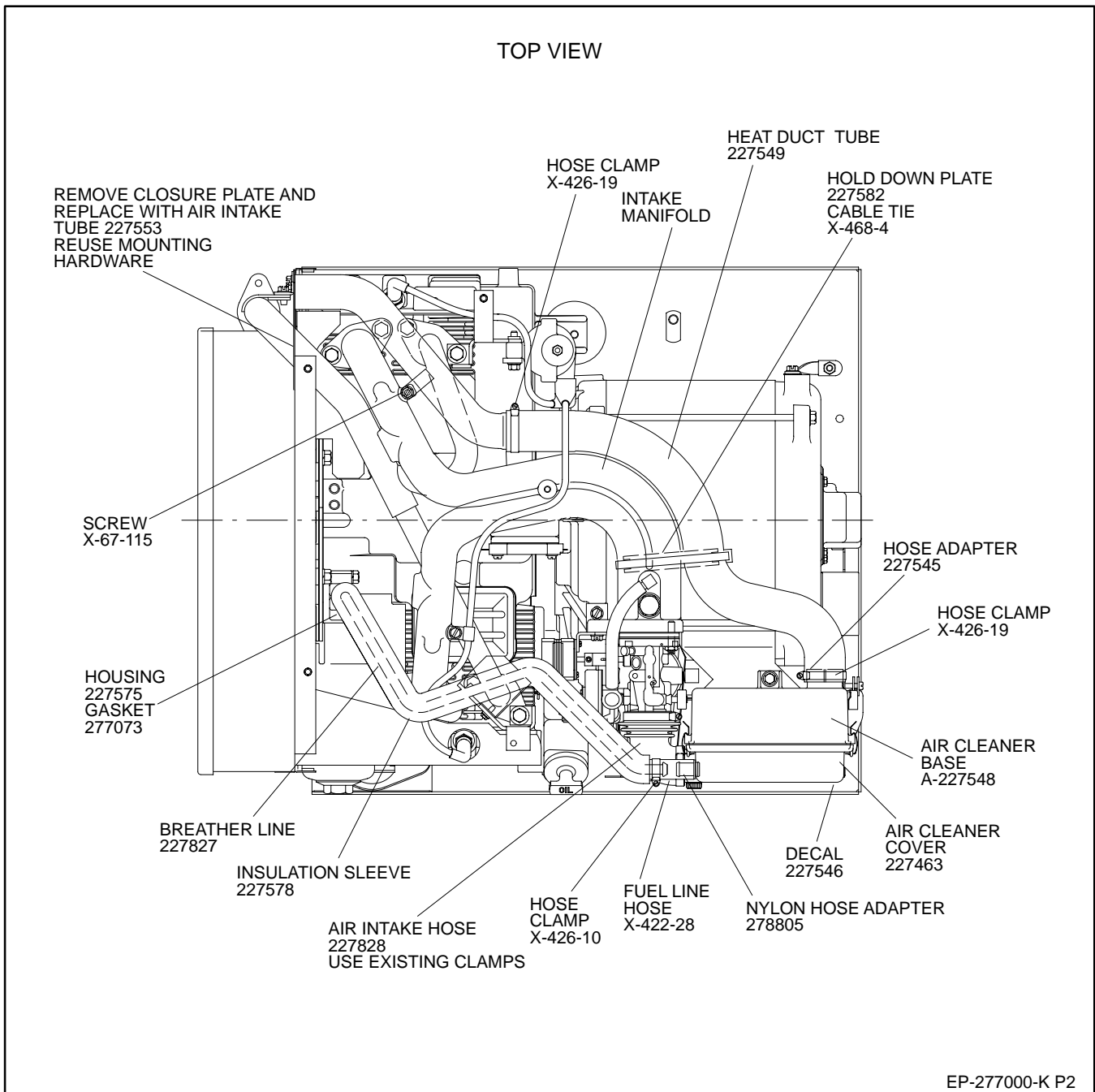
1. If removing the generator set from the coach, move controller master switch to STOP position. Disconnect battery cables, negative lead first. Disconnect fuel lines, electrical leads, load leads, and exhaust system. Remove generator set from the coach according to procedure recommended by coach manufacturer.
2. Loosen two hose clamps securing pleated hose to carburetor and to air cleaner cover. Loosen clamp securing air breather line to pleated hose. Remove pleated hose and discard. Save hose clamps for reuse.

3. Release latches and remove air cleaner cover. Discard air cleaner cover. Carefully remove air cleaner element from base. Protect element from dirt/dust contamination until installation.
4. 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.
5. Install new air cleaner base assembly (A-227548) supplied with kit. Reuse 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).

6. Replace air cleaner element and install new air cleaner cover (227463). Install winter/summer decal (227546) as shown in Figure 1.
7. Install air intake hose (227828) between carburetor and air cleaner cover and secure with existing hose clamps.



**Figure 1. Installing Kit 227836**

8. Remove grill and hood to expose engine end of unit.
9. Remove existing closure plate on engine and discard. Save hardware for reuse. Mount new air intake tube (227553) with existing hardware. See Figure 1 for proper location. Secure air intake tube to intake manifold with screw (X-67-115).
10. Connect heat duct tube (277549) to end of air intake tube (227553) and install hose clamp (X-426-19).
11. Install hose adapter (227545) into end of heat duct tube (227549). Attach heat duct tube and adapter to air cleaner base with hose clamp (X-426-19). Secure heat duct tube to intake manifold with cable tie (X-468-4) and hold-down plate (227582). Position hold-down plate between tie wrap and intake manifold.
12. Remove breather line from retaining clamp on engine lifting bracket and remove breather line from breather housing. Discard breather line.
13. Remove existing breather housing by removing two bolts. Discard breather housing and gasket. Save mounting hardware. Install new breather housing (227575) and gasket (277073) with existing bolts.
14. Install nylon hose adapter (278805) in air cleaner cover.
15. Install insulation sleeve (227578) over breather line (227827).
16. Install fuel line hose (X-422-28) over end of breather line as shown in Figure 1 and secure with hose clamp (X-426-10). Install open end of fuel line hose over nylon hose adapter in air cleaner cover. Install opposite end of breather line in breather housing by sliding down into place.
17. Install hood on generator set.
18. Reinstall hood and grill on generator set.
19. Install generator set in coach following manufacturer's instructions. Reconnect fuel lines, electrical leads, load leads, and exhaust system. Connect battery, negative cable last.

## CHOKE ADJUSTMENT PROCEDURE (GASOLINE MODELS ONLY)

Depending upon local operating temperatures, adjustment of the choke may be necessary. The two following procedures provide choke-adjustment instructions for operation above 10° F (–12.2° C) and below 10° F (–12.2° C).

### CHOKE-ADJUSTMENT PROCEDURE FOR OPERATION ABOVE 10° F (–12.2° C)

#### NOTE

This procedure assumes the choke is still set at the factory-set position.

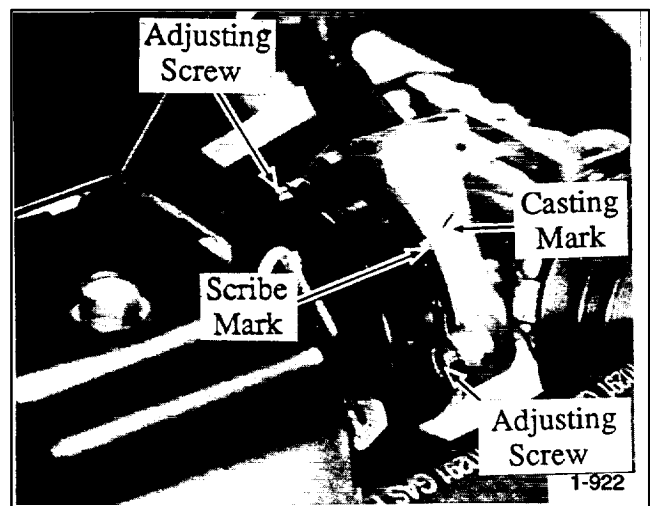
1. Where the choke casting mark meets the black plastic cover of the choke, make a scribe mark on the choke's black cover. See Figure 2.
2. Loosen two choke-adjusting screws. Rotate choke counterclockwise toward leaner setting (follow direction of arrow on choke) until distance between choke casting mark and scribe mark on black plastic cover is 5/16 inch (8 mm). Tighten 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 below.

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



**Figure 2. Typical Choke Adjustment Location**

## Parts List

<b>Kit 227836</b>		
<b>Qty.</b>	<b>Description</b>	<b>Part Number</b>
1	Base Ass'y, air cleaner	A-227548
1	Hose, fuel line, 0.50 in. ID x 1.75 in.	X-422-28
1	Clamp, hose, 0.50–1.00 in.	X-426-10
2	Clamp, hose, 1.00–2.00 in.	X-426-19
1	Tie, cable	X-468-4
1	Screw, self-tapping, 1/4-20 x 0.50 in.	X-67-115
1	Cover, plastic	227463
1	Adapter, hose	227545
1	Decal	227546
1	Tube, heat duct	227549
1	Tube, air intake	227553
1	Housing, breather	227575
1	Insulation, sleeve	227578
1	Plate, hold down	227582
1	Line, breather	227827
1	Hose, air intake	227828
1	Gasket	277073
1	Adapter, nylon hose	278805