



4/5CKM (227555) 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

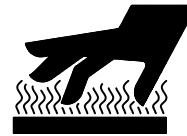


**Fire.
Can cause severe injury or death.**

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 four screws from air cleaner base (two screws are in front, mounted to the controller box and two screws are inside mounted to rear air cleaner bracket). Discard air cleaner base, save mounting hardware and rear air cleaner bracket.
4. Install new air cleaner base (A-227547) supplied in kit. Mount air cleaner base to rear air cleaner bracket and controller box by re-using existing hardware.
5. Replace air cleaner element. If the generator set has an air cleaner cover which currently has three latches (older 4/5 kW models only) then replace with new air cleaner cover (227463) and four latches (278862).
6. Remove hood to expose engine end of unit. The hood will require a small cutout on generator end of hood. Follow cutout pattern in Figure 1.
7. Remove breather hose from air cleaner assembly and the engine's breather cover by removing two clamps. Save clamps, discard hose.
8. Leave plastic hose adapter positioned in air cleaner cover.
9. Remove engine's breather cover by removing one nut and washer. Save mounting hardware, discard breather cover.
10. Slide insulation/tubing (227574) onto copper tube of breather line assembly (227573).
11. Remount breather cover using existing hardware. Replace gasket, if damaged, with new gasket (52 055 01).
12. Install small rubber hose (X-422-28) onto plastic hose adapter in air cleaner cover. Secure with hose clamp (X-426-10).
13. Secure copper tube, with insulation, to small rubber hose (X-422-28) with hose clamp removed in step 7.

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).

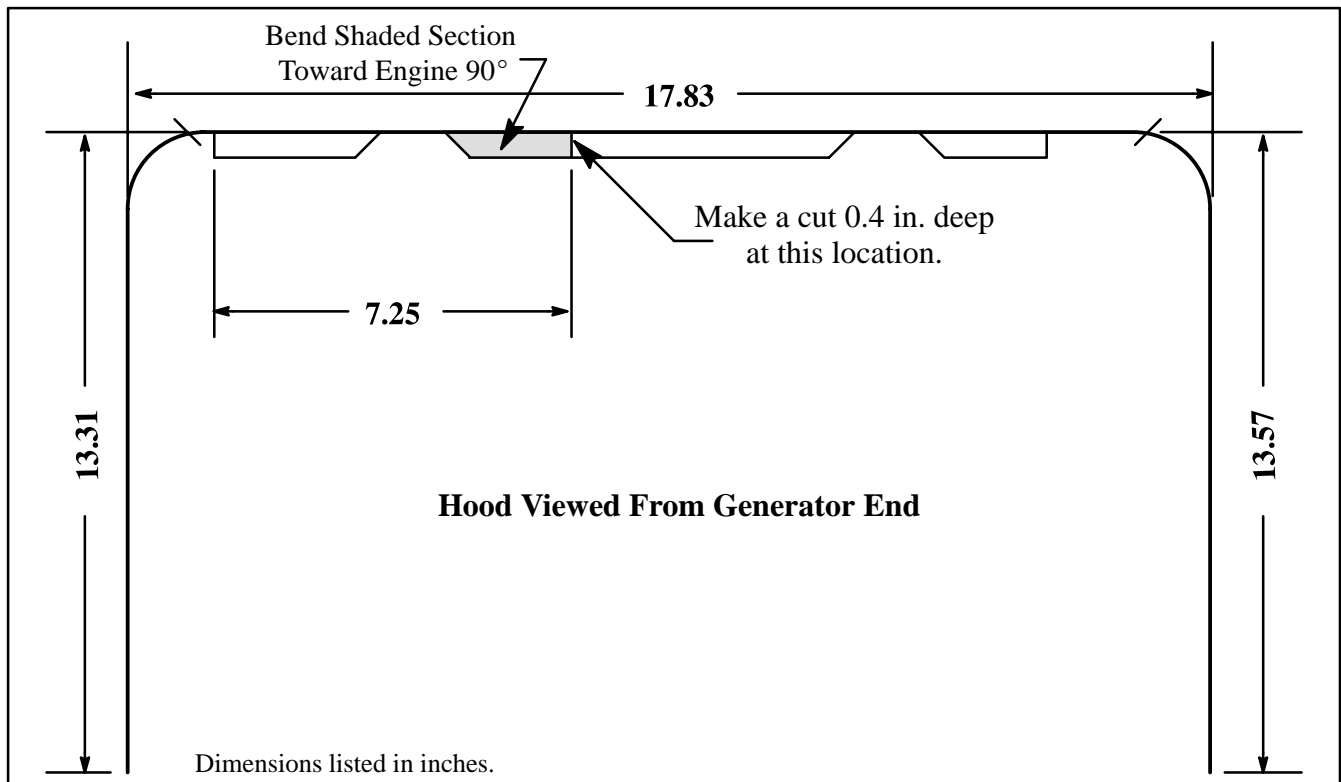


Figure 1. Hood Cut-Out Pattern.

14. Remove two screws on the engine's top closure plate. See Figure 2 for location. Position heat duct (227552) to top closure plate. Slide heat duct up against exhaust manifold. **DUCT MUST TOUCH MANIFOLD.** Secure by re-using existing hardware.
15. Connect heat duct tube (227550) to end of heat duct using clamp (X-426-19).
16. 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).
17. Affix winter-summer decal (227546), service decal (278634) and decal (278831 or 278635) at positions shown in Figure 2.
18. Reposition and install hood. Connect generator battery, negative lead last. Connect fuel line, load lead, remote leads, and exhaust system.

Kit 227555 4/5kW		
DESCRIPTION	QTY.	PART #.
Air Cleaner Base Assy.	1	A-227547
Heat Duct Tube	1	227550
Heat Duct	1	227552
Decal	1	227546
Hose Adapter	1	227545
Hose Clamp	2	X-426-19
Air Cleaner Cover	1	227463
Air Cleaner Latches	4	278862
Service Decal	1	278634
Service Decal (4kW)	1	278831
Service Decal (5kW)	1	278635
Hose Clamp	1	X-426-10
Breather Line Assy.	1	227573
Insulation Sleeve	1	227574
Hose	1	X-422-28
Gasket	1	52 055 01

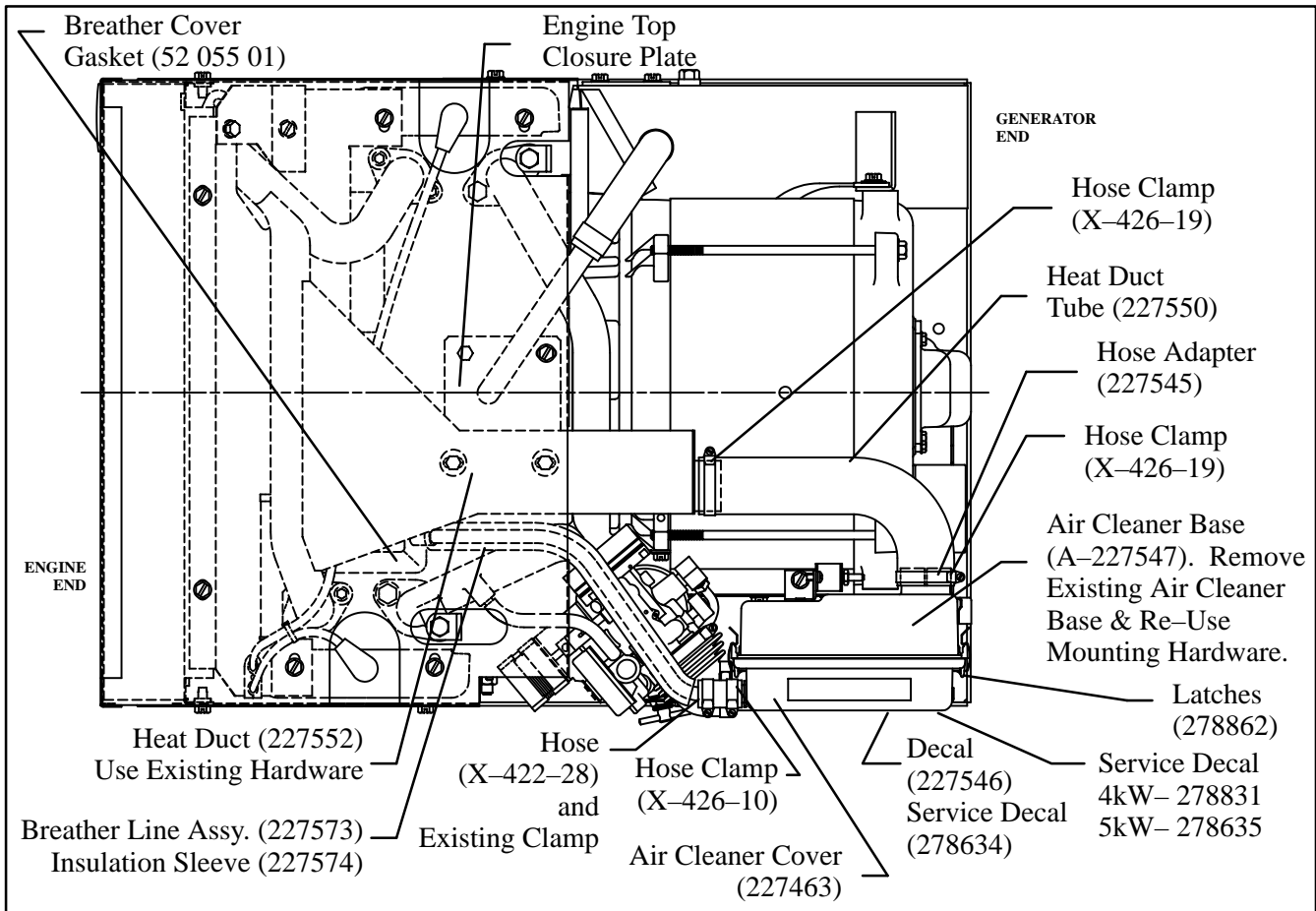


Figure 2. 4/5kW Installation Drawing

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 3.
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.

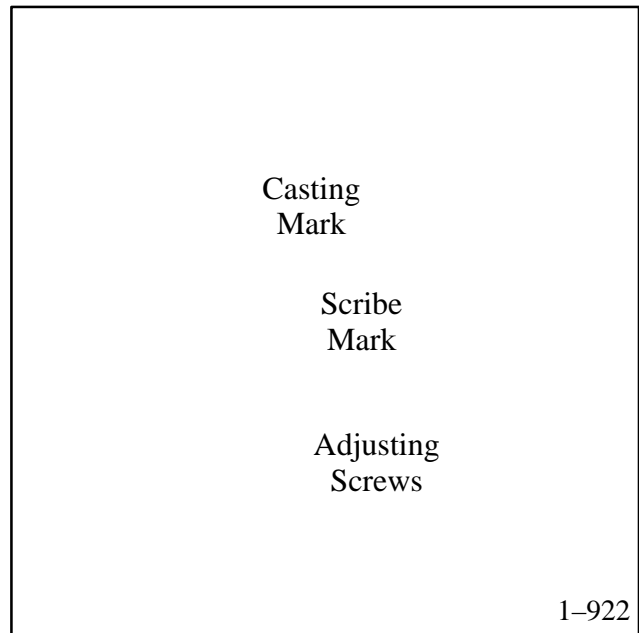


Figure 3. Typical Choke Adjustment Location