

ARCS PROCEDURE:	GENERATOR REMOVAL	PRO(GEN)-001.003
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## Generator Removal

### I. Purpose:

This document describes the procedure for removing the ARCS backup generator.

### II. Cautions and Hazards:

- Bumping hazard (i.e., head, fuel spills).
- No smoking permitted around generator.
- All power must be disconnected prior to starting work on removal.

### III. Requirements:

- General hand tools (available in ARCS utility van work room).
- Duct tape.

### IV. Procedure:

#### A. Steps:

1. Switch Generator to the stop position on the ECM panel.
1. Turn off main breaker and lockout/tag-out. Disconnect the A/C grid power from the utility Genset van and all power cords at the power entry box.  
Note: Make sure all vans are powered down correctly.
3. Disconnect battery charger from A/C outlet.
4. Disconnect the engine starting batteries and remove from compartment.
5. Remove the fuel supply and return lines. Also the lines that connect the day tank to the Sub-Base fuel tank
7. Cap off fuel lines and Sub-Base fuel fittings to prevent fuel line and tank contamination.  
Note: Caps should be in gray cabinet on work side of U-van.
8. Turn off breaker for engine jacket water heater and lockout/tag-out. Disconnect the A/C power cables and flex conduit from the engine jacket water heater.
9. Disconnect the battery charger D/C output leads from the battery terminals.
10. Gain access to the generator circuit breaker (right hand side of the generator). Remove the generator load leads from the generator circuit breaker lugs. Disconnect the neutral cable from the neutral bus lug connection.

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11. Access the generator TSI terminal strip (left hand side of the generator). Remove the following wires from TSI that are routed through the 1/2" conduit connecting the ATS (Automatic Transfer Switch) to the generator.

TB1-2	Shield for wire #18
TB1-2	Black B-wire
TB1-2	Yellow wire
TB1-17 ATS	Red B+ wire
TB1-18 ATS	White shielded wire
TB1-14 ATS	Yellow wire

12. Gain access to the generator control panel AUX. terminal strip (open front of the control panel, left side) and remove the following wires:

SWI	White wire AUX. SWI/ATS
Shield	Cable shield/black wire AUX shield/ATS

**Note:** Check all wire markers before removing any control wires to ensure against any miswiring upon reassembly of the unit.

13. Disconnect the flex conduits from the generator box. Pull the conduit and wiring out of the generator box. Secure the conduit and wiring away from the generator.
14. Remove the engine air filter pre-cleaner assembly.
15. Remove the engine silencer as follows:
  - a) Remove the exhaust system insulation.
  - b) Disconnect the exhaust flange clamp at the engine turbo charger.
  - c) Remove the silencer outlet flange bolts.

**Note:** DO NOT reuse any of the removed exhaust clamps. New gaskets and clamps are required.

16. Disconnect exhaust pipe from outside of van.
17. Cover all intake and exhaust openings with duct tape.
18. Remove the spill guard from the door opening floor seal.
19. Install the dock plate (ramp) at the U-van door.
20. Remove the skid vibration isolator through bolts. Raise the generator package. Remove the vibration isolators. Set the unit down on rollers (pipe). Carefully roll the unit out of the U-van.

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21. Ensure that a “come along” is used when pushing out Genset to avoid run away.

**V. References:**

None.

**VI. Attachments:**

None.