
INSTALLATION INSTRUCTIONS

Original Issue Date: **2/97**

Model: **200-800 kW**

Market: **Industrial**

Subject: **Block Heater Control Box Service Kits 354330 and 354331**

The block heater control service kit replaces the existing block heater control box with a new block heater control box and cover. Observe the following safety precautions while installing the kit.



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

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

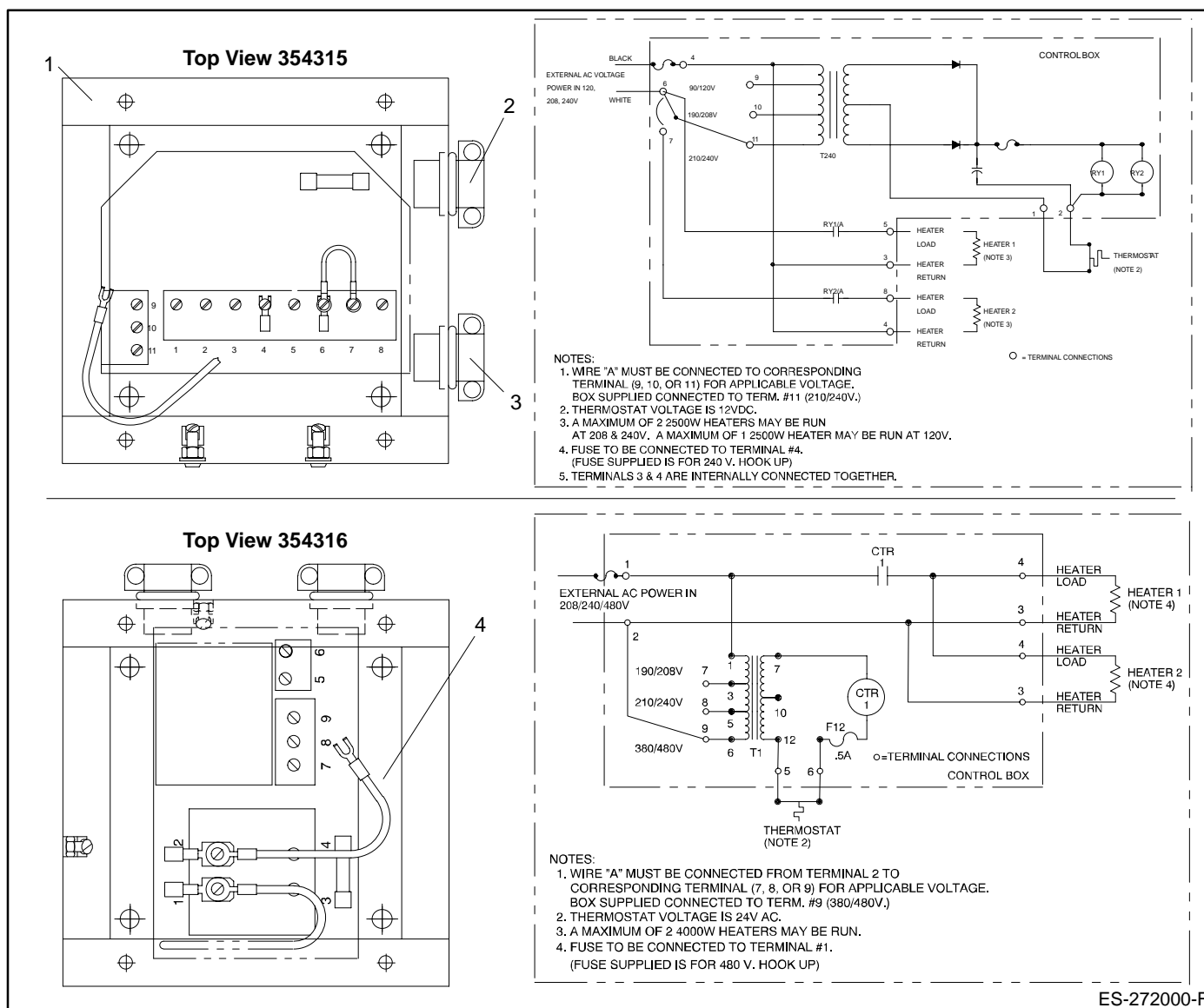
Disabling generator set. Accidental starting can cause severe injury or death. Turn generator set master switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on the generator set or connected equipment. The generator set can be started by an automatic transfer switch or remote start/stop switch unless these precautions are followed.

NOTE

Do not turn on block heater before filling cooling system. Run engine until warm and refill radiator to purge air from the system before energizing block heater. If heater element is not immersed in water block heater will fail.

Installation

1. Place the generator set master switch in the OFF position.
2. Disconnect the generator set engine starting battery, negative (–) lead first. Disconnect battery charger, if equipped.
3. Open existing block heater control box and disconnect thermostat and heater leads inside the box. Mark leads for connection in new control box.
4. Loosen heater and thermostat lead clamps on outside of control box. Remove heater and thermostat leads.
5. Remove hardware securing block heater control box to generator set skid or bracket. Save mounting hardware.
6. Install new block heater control box (354315 or 354316) to skid or bracket using mounting hardware removed in step 5.
7. Route thermostat and heater leads into new block heater control box. See Figure 1.
8. Install control box fuse. **Kit 354330** connect inline fuse to terminal #1. See Figure 1. **Kit 354331** install fuse block (X-6129-8) between control box front bumper mounting screws inside the control box. Use the fuse block as a template and drill one 0.141 in. diameter hole. Mount fuse block using screw (X-51-15), nut (X-6210-4), and washer (X-25-48). Place washer under fuse block.
9. Connect heater and thermostat leads to control box.
10. Tighten heater and thermostat lead clamps.
11. Remove adhesive backing from control box cover gasket (354318) and install gasket on backside of control box cover (354317).
12. Remove adhesive backing from wiring diagram label (354327 or 354328) and install label on backside of control box cover.
13. Install control box cover. Secure cover to box with four screws (X-97-13).
14. Remove adhesive backing from warning decal (354325 or 354326) and install decal on top center of control box cover.
15. Check that the generator set master switch is in the OFF position.
16. Reconnect the generator set engine starting battery, negative (–) lead last. Reconnect battery charger, if equipped.



ES-272000-F

1. Control box

2. Thermostat lead entry and clamp

3. Heater lead entry and clamp

4. Fuse block mounting location

Figure 1. Block Heater Control Box and Wiring Diagram

Block Heater Control Box Service Kit

Parts List				
Kits: 354330, 354331		Unique Parts		
Qty.	Description	Common Parts	354330	354331
1	Washer, plain	X-97-13		X-25-48
1	Screw, hex. head machine			X-51-15
4	Screw, hex. head machine			
1	Block, fuse			X-6129-8
1	Fuse, 600V 10A			X-6135-6
1	Nut			X-6210-4
1	Holder, fuse		269216	
1	Fuse, 250V 10A		292937	
1	Box, block heater control		354315	354316
1	Cover, block heater control box	354317		
1	Gasket, control box	354318		
1	Decal, warning		354325	354326
1	Label, wiring diagram		354327	354328