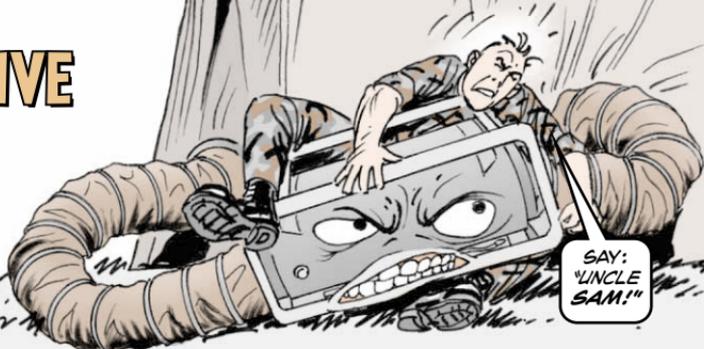


CONVECTIVE SPACE HEATER



Defeating Overheating

When you run the convective space heater, NSN 4520-01-431-8927, in moderate climates (like the southern U.S., for example), you're liable to overheat your tent. Once the temperature inside exceeds 90°F, the in-tent controller system fault light shows a code 10, TENT OVER TEMPERATURE. At that point, the heater will either shut off immediately or shut off as soon as the battery recharges.

System fault light shows a code 10	OFF	RELOCATING AFTER ALL ADVISORY LIGHTS ARE OFF.
	<input type="radio"/>	HEATER ON / ON - HOLD
	<input type="radio"/>	BATTERY CHARGING
	<input type="radio"/>	BATTERY CHARGED
	<input checked="" type="radio"/>	SYSTEM FAULT
	<input type="radio"/>	AT SETPOINT

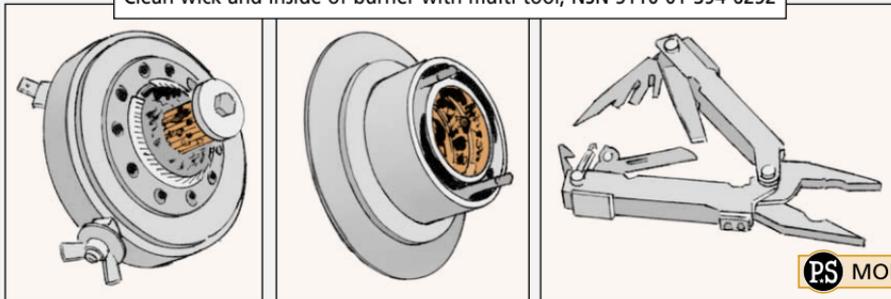
AUDIBLE DIAGNOSTIC CODES

1. LOW VOLTAGE
2. COMBUSTION BLOWER
3. LOSS OF FLAME
4. BURNER MAINTENANCE
5. GLOW PLUG
6. TEG OVER TEMPERATURE
7. OVER VOLTAGE
8. TIP-OVER
9. FIN TEMP SENSOR
- 10. TENT OVER TEMPERATURE**

After the tent cools, the heater cycles back on and eventually overheats the tent again. The heater continues cycling on and off until the outdoor temperature drops. This on/off cycling causes carbon to build up in the burner and around the glow plug. Too much carbon around the glow plug increases the chance that the plug will overheat and burn out.

So, if your heater's been cycling a lot, the first thing you'll need to do is give the burner a thorough cleaning.

Clean wick and inside of burner with multi-tool, NSN 5110-01-394-6252

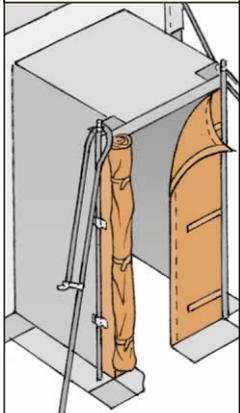


YOU'LL ALSO NEED TO REDUCE THE ON/OFF CYCLING.

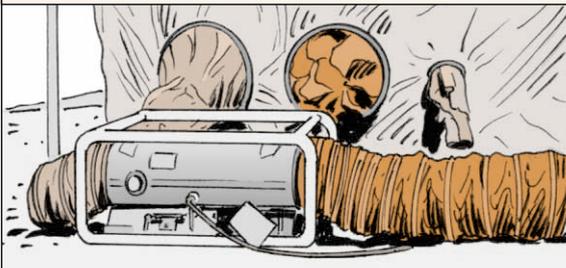
WORK PACKAGE 0009 OF TM 10-4520-262-12&P DESCRIBES TWO WAYS TO DO JUST THAT...



1. Open the tent door and cool the inside.



2. If the cycling continues after cooling off the inside, disconnect the air supply duct from the tent's air duct opening. Keep the air supply duct attached to the heater. That'll help keep rain and snow from getting inside the heater. Allow the heater to draw the cooler outside air until the cycling stops. Then reattach the air supply duct to the air duct opening.



MAKE MINE JP-8!

Burner Cleaning Made Simple

The convective space heater, NSN 4520-01-431-8927, produces forced hot air to keep your tent or shelter cozy. You'll stay warm as long as you understand the link between the heater's fuel and a clean burner assembly.

Facts About Fuels

JP-8 is the preferred fuel for the heater. It burns clean and extends the life of the burner assembly. That means fewer unscheduled maintenance tasks to worry with.

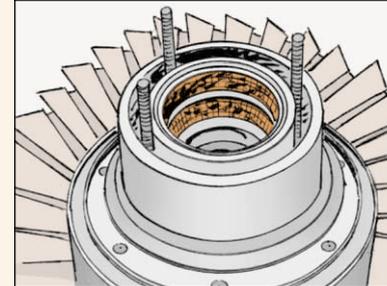
If you don't have JP-8, you can use diesel fuel in the heater. But you need to know a few things about diesel:

Diesel burns dirtier than JP-8. It leaves more carbon residue in the burner, especially on the wick, around the glow plug and in the burner chamber.

More carbon calls for more cleaning. If you use diesel fuel, expect to clean the burner every 250 hours (or about 10 days of continuous operation). Use JP-8 and you'll need to clean the burner only if the system fault light shows a code 4, burner maintenance.

Carbon building up around the glow plug increases the chance that the plug will overheat and burn out. So much for staying warm on a cold winter night.

Diesel fuel leaves more carbon in burner



Cleaning

Whether you use JP-8 or diesel in your heater, sooner or later you may have to clean the burner assembly. That's why you need to get the new Simplified Burner Cleaning service bulletin (Instruction Sheet PN 5-13-5647). It's available online at <http://www.huntermfgco.com/military/bulletins.htm>

Once you reach the website, click on **SHC**, **Simplified Burner Cleaning** to download the bulletin. If you'd prefer a hard copy, phone (440) 248-6111, Ext 222, or DSN 256-5592.

Used along with the heater's technical manual, TM 10-4520-262-12&P, the bulletin offers a simple way to clean and inspect the burner in the field. This information will be included in the next change to the TM.

Besides needing the TM to clean the burner, you'll also need the wire brush, NSN 7920-00-291-5815, found in the general mechanic's tool kit, or a multi-tool, NSN 5110-01-394-6252.

THE BURNER CLEANING BULLETIN...

"...SHOWS YOU HOW TO CLEAN THE BURNER IN THE FIELD."

Tent Mod Kit Lets Air Flow



The convective space heater, NSN 4520-01-431-8927, efficiently heats your modular command post shelter (MCPS) as long as there's a free flow of air. The heater draws cold air from the shelter through the air supply duct. The air's forced through the heat exchanger, where it's heated. The warm air then passes through the air return duct and into the shelter.

There's only one problem: The earliest versions of the MCPS were fielded without air duct openings. Without them, you have to insert both the supply and return ducts under the shelter wall. The weight of the wall squeezes the ducts and cuts down the airflow. Less air causes the heater to overheat or to constantly cycle on and off. As a result, carbon builds up in the burner. In the end, you have to clean the burner more often.

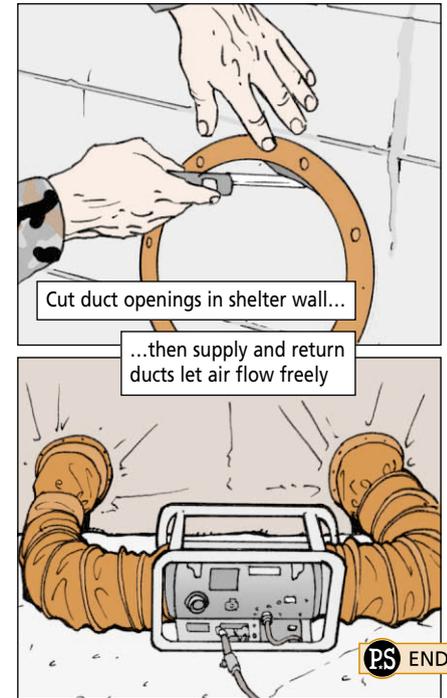


Avoid overheating, cycling, carbon buildup and extra cleaning. If your MCPS doesn't have air duct openings, install the tent wall modification kit, NSN 4520-01-493-3215. The kit allows you to cut openings in the shelter wall and to add a sleeve to seal around the ducts. Attaching the supply and return ducts to the openings lets air flow freely through the space heater.

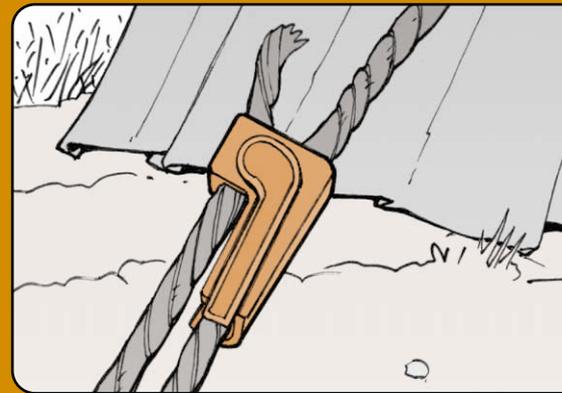


YOU'LL FIND COMPLETE INSTRUCTIONS FOR INSTALLING THE KIT IN WORK PACKAGE 0005 OF TM 10-4520-262-12&P.

You can still use your space heater while you're waiting for the kit to arrive. Just make sure you prop up the shelter wall so it doesn't squeeze the supply and return ducts and restrict airflow.



Rope Lock NSN



Use a rope lock, NSN 4030-01-477-0524, to keep a tent rope, loose gear, flight line or canvas cover snug. The rope lock doesn't need continual adjustments once it's secured or fastened in place. This NSN gets a package of 12 rope locks.