

Stay Cool, Avoid Shocks



GET THAT STUFF AWAY FROM ME.

I NEED THE PURE STUFF.

THE AN/TPQ-37 AND AN/TPQ-36 FIREFINDER RADAR SYSTEMS NEED CREWS TO STAY COOL ON COOLER PM AND AVOID SHOCKS WHEN WORKING ON THE SYSTEMS.

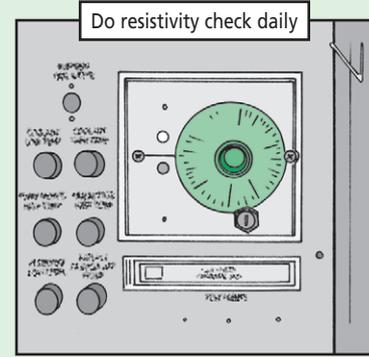


Stay Cool

The AN/TPQ-37's transmitter cooler is very particular about what you put in it. If you don't use purified glycol, NSN 6810-00-006-4205, and distilled water, NSN 6810-00-682-6867, in the cooler, you get problems. Plain antifreeze—instead of purified glycol—causes the cooler to overheat. Undistilled water causes the filters to plug up and again the cooler overheats.

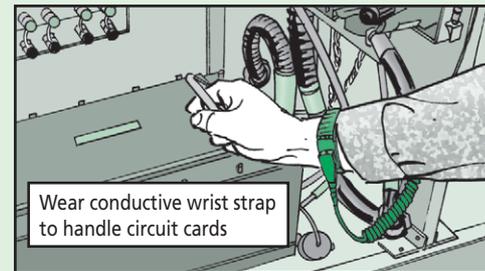
To make sure you have enough glycol in the cooler, you need to do a specific gravity test every other week. How to do that is on Page 3-118.13 in TM 11-5840-355-20-1.

But the cooler checks don't stop there. To prevent contamination and corrosion in the cooler system, you also must check the liquid coolant resistivity **daily**. See Pages 3-106 through 3-108 for info. If the Firefinder is running continuously and the resistivity drops below five megohms, the check should be done every few hours to ensure resistivity doesn't drop below one megohm. When the resistivity gets near that, the resistivity filter should be changed. Otherwise, the Firefinder shuts itself down.



Avoid Shocks

When replacing circuit cards in either Firefinder, wear a conductive wrist strap. NSN 4940-01-250-4236 brings a whole kit to prevent ESD. The strap prevents electrostatic discharge from damaging sensitive electrical components, which are often very expensive to replace. It's also a good idea to touch tools and test equipment to metal to discharge any static before you use them to touch circuit cards or any other component that can be damaged by static.



When you disconnect the power cables to the Firefinder for maintenance, it's extremely important **not to remove the grounds** for the Firefinder and its components. Without the grounds, static can build up in the Firefinder and damage test equipment or injure crew members.

