

Making the



OPERATORS,
YOUR MSE SHELTER
NEEDS ITS LEAD-ACID
BACKUP BATTERIES
RECHARGED.



BUT SOME
OF YOU ARE
NOT DOING IT.

Your shelter runs on AC or DC power with two batteries as emergency backup. Some of you have the new maintenance free batteries, but many shelters still have the lead-acid ones. If you lose power from your primary source, the backup batteries will keep the workstation going until primary power can be restored.

But as your shelter sits idle, the voltage level on those lead-acid batteries drops. To make sure you still have your backup ready, you must do an initial load/charge test on the batteries during the AC power initialization procedure like it says in your TM:



HERE'S
HOW TO DO
THAT TEST:

1. Make sure the BATTERY ON BUS indicator and REGULATOR CHARGER ON indicators on the power control panel are on.
2. Set the CURRENT SELECT switch to CHRG (charge).
3. Press and hold the CHARGE-TEST button for 1 minute. After a minute, the DC CURRENT meter will show the charger current. Write down the reading.
4. Release the CHARGE-TEST button.
5. Set the CURRENT SELECT switch to LOAD.
6. Press and hold the CHARGE-TEST button for 1 minute. After a minute, the DC CURRENT meter will show the load current.
7. Subtract the load current from the charger current. If the difference is greater than 5 amps, the batteries need charging.

Charge Equal

Battery Charging

To charge the batteries, press the EQUALIZING CHARGE button on the power control panel. The EQUALIZING CHARGE indicator will come on and the BUS VOLTAGE meter will increase to 28 volts. This starts a 5-hour charge cycle.

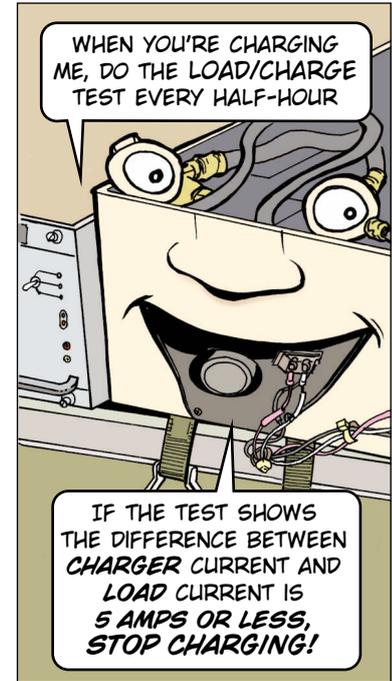
But it may not take the whole 5 hours to charge the batteries! You must monitor the charge by doing the load/charge test every half hour. When the test shows that the difference between the charger current and load current is 5 amps or less, **stop charging!** If you keep the charger running, you'll overcharge the batteries and damage them.

Stop the battery charge cycle by rapidly switching the BATTERY CHARGER circuit breaker OFF and then back ON.

If the difference between the charger current and the load current will not come to within 5 amps after 5 hours, there's a problem with the charging system. Stop the charge cycle. **It's not done automatically!** Then get your support on the job.

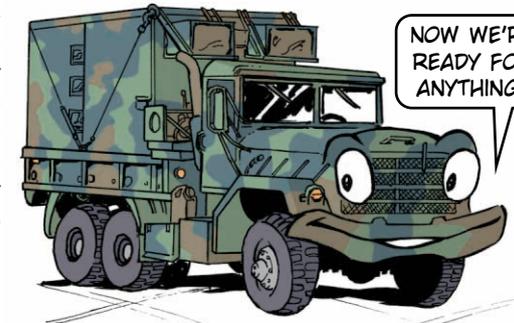
During operation, follow-up load/charge tests should be done at least once a day and at shift changes. But the equalizing/charge cycle must not be done again! It should only be done during the AC power initialization procedure like your TM says.

If your daily or shift-change load/charge test shows the difference between the charger current and the load current is more than 5 amps, do the regulator/battery charger adjustment found in your operator TM. If this does not solve the problem, call your support.



WHEN YOU'RE CHARGING
ME, DO THE LOAD/CHARGE
TEST EVERY HALF-HOUR

IF THE TEST SHOWS
THE DIFFERENCE BETWEEN
CHARGER CURRENT AND
LOAD CURRENT IS
5 AMPS OR LESS,
STOP CHARGING!



NOW WE'RE
READY FOR
ANYTHING!