

## Technical Service Bulletin 940911

### High Voltage Safety Guidelines

This bulletin applies to all Comark klystron and IOT-equipped television transmitters.

As there are potentially lethal voltages present in television transmitters and associated electrical equipment, working on or around this equipment can present a risk of injury or death if proper precautions are not taken and proper procedures followed.

Comark transmitters have several safety features designed to increase the awareness of, and reduce the risks associated with, working on or near high voltage. These features include: warning labels, door locks, interlock switches, grounding switches and high voltage grounding rods. Please ensure that all individuals who may have reason to work on or near this equipment are thoroughly familiar with the meaning, purpose, and use of each feature. Consult with the equipment manual and factory representative if there is any doubt about a particular feature.

To further enhance personnel safety, it is strongly recommended that Safe Electrical Work Practice policies and Lock-Out/Tag-Out procedures in accordance with all appropriate regulations be implemented at the transmitter site. Consult with local OSHA representatives or the appropriate regulatory agency for further information if needed.

In addition to the above, the following guidelines are offered to further reduce the risk associated with electrical hazards. Please ensure that all appropriate personnel are familiar with these guidelines. It is recommended that this notice be posted in a highly visible location at the transmitter site.

1. Allow only qualified individuals to work on or around high voltage equipment.
2. Never work on or around high voltage alone.
3. Never work on or around high voltage when impaired, tired, or otherwise not fully alert.
4. Post emergency procedures and telephone numbers in a highly visible, easily accessible location.
5. Completely de-energize equipment on which work is to be performed.
6. Always follow carefully any instructions or recommendations provided by Comark and/or the equipment manufacturer. Do not take "short-cuts".
7. Disconnect, lock-out, and tag-out high voltage disconnect switch associated with equipment on which work is to be performed.
8. Ensure that all high voltage interlock switches and high voltage grounding switches are functioning properly.
9. ALWAYS USE THE GROUNDING STICK PRIOR TO COMING INTO CLOSE PROXIMITY AND/OR CONTACT WITH ANY HIGH VOLTAGE APPARATUS, EVEN IF YOU BELIEVE IT HAS BEEN DE-ENERGIZED. POTENTIALLY LETHAL VOLTAGES MAY STILL BE PRESENT AND/OR STORED IN CAPACITORS. LEAVE GROUNDING

STICK IN CONTACT WITH HIGH VOLTAGE CIRCUIT AT ALL TIMES WHILE WORKING ON OR NEAR EQUIPMENT.

10. Inspect ground stick(s) frequently and repair or replace them at first sign of wear and/or damage. Consult with Comark representatives if there are any questions regarding the grounding stick(s).
11. Always reinstall interlocked covers before re-energizing equipment.
12. Never disengage or otherwise disable any interlock and/or safety feature.
13. Never wear jewelry, watches, or conductive materials while working on or near high voltage equipment.
14. Ensure that area in which work is to be performed is dry, has adequate light, and has ample space in which to maneuver.
15. Use only tools and equipment specifically intended for working on high voltage.
16. Consult with a local utility company representative and/or a proper licensed electrician before attempting any work involving building service, main power service, etc.
17. Familiarize yourself thoroughly with First Aid procedures provided in Comark equipment manuals.

Please do not hesitate to contact Comark Customer Service with any question you may have concerning the information contained in this service bulletin.

Comark Communications.  
104 Feeding Hills Road  
Southwick, MA 01077 U.S.A.  
(800) 345-9295  
Attn: Customer Service  
<http://comarktv.com>