



# Corona Supplies Ltd

for all your corona needs

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## GT Range - Generator Fault Lamps & conditions

### WARNING

**High voltages are present within the corona generator**

**Very high voltages are present within the corona treater station**

**Fault finding should only be carried out by qualified personnel**

**Corona Supplies service department should be contacted if in any doubt**

### **Fault - The interlock lamp does not illuminate.**

- Ensure the treater is closed including all the access doors and windows.
- Ensure that the ozone extraction fan is running. Also check that the fan is rotating in the correct direction as indicated by an arrow on the motor cover.
- Ensure that the Emergency stop button has not been depressed.
- Check that the indicator bulb has not failed.
- Refer to the circuit diagram. Verify that all the relevant cable connections are secure, and not damaged.
- **Switch off the generator.** Locate the terminal box where all the interlock switches are terminated (on the treater). Remove the cover. Check the continuity of each switch or sensor. Check/replace switch or sensor as necessary. **Warning:- Do not bypass any safety interlock switch because high voltage is present when corona discharge takes place. Any bypassed switches could damage the generator, or cause severe injury to the operators.**

### **Fault - The up to speed lamp does not illuminate.**

- Check the treater base roll(s) are rotating at the same speed as the line rollers. **Note: On webs with low tension or high slip it is possible for the web to slide over the treater rolls, causing the treater rolls to stop or only turn slowly.**
- Check the indicator bulb has not blown.
- If the base rolls have been recently removed. Check they have been re-fitted correctly. Also check the magnets alter around the base roll (North (Blue) – South (Red) - North - South).
- Check the distance from the magnets to the sensor. The gap should not exceed 10mm.
- Refer to the circuit diagram and verify that all cable connections are secure and not damaged.

Cont/d...

**Fault - During treatment or whilst increasing the output power the trip lamp lights or there is little or no corona discharge.**

This could be for a number of reasons so all the following need to be checked:-

- Excessive air gap. For ceramic dielectrics the air gap between the electrode and the treater roll, with the web removed should be set to 1 – 1.5mm. For other dielectrics this gap should be 2mm.
- Pin holed or cracked dielectrics (Rollers, Ceramic electrodes etc).
- Dirty or cracked insulators
- The HT connection (between the HT transformer insulator and the electrode(s)) is loose.
- Incorrect HT transformer tapping.
- Electrode discharge area too small for high power.
- Replaced dielectric sleeve cut too short.
- Humidity too high, leading to excess moisture inside the treater station.
- Dirty front plate, or loose primary connections on the HT transformer.
- Worn treater roll bearings.
- Wrong HT transformer fitted.

If the treater roll has recently been changed, and the roll not supplied by Corona Supplies. The dielectric constant of the new roll covering