
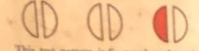





# CRT REJUVENATOR

# NEON TEST INDICATORS

  
If the picture tube has no shorts or open elements, the indicator bulbs will be lighted as shown and the tube is a good candidate for rejuvenation.

  
This test pattern indicates that the tube has an open control grid. Try rejuvenation. Then try reworking the G1 base pin.

  
This test pattern shows an open first anode. First try rejuvenation. Then try reworking the G2 base pin. If still unsuccessful, replace tube.

  
This condition is sometimes caused by a parasite that becomes lodged between heater and cathode. Turn the selector switch to SPARK, HTR, CATH position while tapping the neck of the tube. The heater will deflect until the short is burned off. It may be helpful to turn the HEAT-KILN switch OFF and ON. If the meter or other indicator still shows a solid short, the tube should normally be rejected. However, if the tube has good emission, and sometimes even the "straight one," it should be used in the TV set. If built against the pattern, there is no control of temperature, it is possible to use a 1/2 watt resistor transformer in series to approximate normal operation.

  
Definitely this would indicate that the "hot" element is badly misaligned or even badly shorted. The tube should be rejected.

**GOOD TUBE**

**OPEN G1**

**OPEN G2**

**H-K SHORT**

**G1-K SHORT**

**G2-K SHORT**

**OPEN K LOW EMISSION**

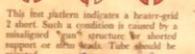
**H-G2 SHORT**

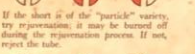
**G1-K SHORT**

**G1-G2 SHORT**

**G2-K SHORT**

  
When none of the indicators light, the tube either has extremely low emission or an open cathode. The rejuvenation process should be tried on the chance that low emission is the trouble and can be improved. If rejuvenation fails, try reworking the cathode base pin. Attempts to "work" open cathode ribbons are unsatisfactory. Independent tests of this operation, conducted by one of the nation's largest TV set manufacturers indicated that while these works could be performed occasionally, they were rarely successful in more than a few days. Reject tube.

  
This test pattern indicates a heater-grid 2 short. Such a condition is caused by a misaligned "gun" structure or distorted support or alpha leads. Tube should be rejected.

  
If the short is of the "particle" variety, try rejuvenation; it may be burned off during the rejuvenation process. If not, reject tube.

**CAUTION**  
Generally caused by misaligned "gun" elements, which cannot be cleared up. Reject tube (see caution note below).

**CAUTION**  
If this indication exists, do not treat tube for emission as you may damage the "hot" tube meter. Reject tube.

Rejuvenator - By The Designers of  
  
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Central Electronics, Inc.  
CHICAGO, ILLINOIS  
U. S. A.

H G1 G2

MULTIPHASE  
REJUVA-TUBE

ADJUST EMISSION  
REFERENCE  
DECR. INCR.



EMISSON REJUV.  
SHORTS OPENS REJUV.  
AC OFF SPARK HTR. CATH

READ EMISSION HEATER ON HEATER INCREASE REJUV. INCREASE REJUV. ON OFF POWER PILOT  
MODEL RE-1 PATENT PENDING 115V-60~





GM 12CT8	M 2EN5	RCA 3V4	SYLVANIA 3GK5	GE 9EW6	RCA 4GK5	RCA 6K28	GE 6V5	RCA 6AH6	GE 35Z8
GM 12CT8	M 2EN5	RCA 1U4	GE 6JD6	GE 45Z3 Electronic Tube	RCA 12FR8	BATHEDON 6A06	GE Z-2137 Electronic Tube	SYLVANIA 2AV2	RCA 35DZ8
RATHEDON 12DE8	M 2EN5	RCA 1U5	GE 3GK5	GE 50DC4	RCA 12FR8	BATHEDON 6A06	GE 13DR7	SYLVANIA 12FX8A	RCA 12FX8A
SYLVANIA 12FK6	CBS 3AV6	RCA 1U5	Imperex 3GK5	GE 50DC4	RCA 12FX8A	SYLVANIA 6BQ7A 6BZ7	RCA 12FX8A	GE 12D18	SYLVANIA 12FX8A
SYLVANIA 12AZ7A	SYLVANIA 3AV6	RCA 2FS5	SYLVANIA 3CY5	RCA 60FX5	RCA 6JG6	SYLVANIA 6GK6	RCA 12D5	GE 8CS7	SYLVANIA 32ET5A
RCA 6BK5	SYLVANIA 6BD6	RCA 6BD6	SYLVANIA 6CG7 6FQ7	Electronic Tube 12AT6	RCA 6T8A	GE 12ED5	GE 12ED5	ADIRAL 6Y9	RCA 6Y9



FERRIS  
MICROVOLT  
MODEL 18-FSNO.382  
MADE IN U.S.A. BY  
FERRIS INSTRUMENT CO.  
BOONTON, N.J.



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