



Amperex



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TUBE SERVICE REPORT FORM

Date: _____ Product Name: _____ Model#: _____ Serial #: _____

RMA #: _____ Invoice #: _____ Date Purchased: _____

Check Type of Service: ☐ Broadcast ☐ Communications ☐ Navigation ☐ Amateur (Call Sign: _____)

☐ Industrial ☐ Oscillator ☐ Amplifier ☐ CB

☐ Plasma ☐ Sputter ☐ Welding ☐ Other _____

Type of Equipment: _____

Equipment Manufacturer: _____ Model#: _____

Check Modulation Mode: ☐ AM ☐ FM ☐ SSB ☐ RTTY ☐ SSTV ☐ TV

Rated Power Output of Equipment: _____

Operating Conditions: _____

Total Hours of Filament Operation: _____

Total Plate Hours: _____

Frequency or Channel: _____

Plate Voltage: _____ Volts

Plate Current: _____ MA

Screen Voltage: _____ Volts

Screen Current: _____ MA

Grid Bias Voltage: _____ Volts

Grid Current: _____ MA

Filament Voltage: _____ Volts

Driving Power: _____ Watts

Power Output: _____ Watts

SWR: _____

Was plate voltage on at time of failure? ☐ Yes ☐ No

Was equipment being adjusted at time of failure? ☐ Yes ☐ No

What was power level at time of failure? _____

Describe what happened at time of failure: _____

Name (please print) _____

Signature _____

Address: _____

Telephone: _____

City: _____

Fax: _____

State: _____ Zip: _____

Email: _____

OPERATING INSTRUCTIONS

Keep this sheet with tube until installed in equipment.

Read the following Instructions and take all necessary precautions.

OPERATING INSTRUCTIONS

This information is provided to help you establish safe operating conditions for both you and your power tube.

Do not operate this tube except in accordance with information included in the individual TUBE DATA SHEET, these precautions, and any additional information provided by the tube manufacturer and/or competent safety authorities.

WARNING – HEALTH HAZARDS CAN EXIST WITH POWER TUBES

Operating and/or handling any electron power tube, whether small or large, may involve one or more of the following hazards:

- a. HIGH VOLTAGE—Normal operating voltages can be deadly.
- b. GLASS EXPLOSION—Many electron tubes have glass envelopes. Breaking the glass can cause scattering of glass particles. Handle glass tubes carefully.
- c. reach temperatures of several hundred degrees and may cause serious burns.
- d. MERCURY—Mercury requires special handling to avoid possible health and ecological effects.

To minimize the risk of damage or personal injury, this information must be passed on by you to any employees, technicians, or other persons who may come in contact with your power tube.

HIGH VOLTAGE

Operating voltages for power tubes range from several hundred volts to more than 5,000 volts. Since these voltages can be deadly, equipment must be designed so that no one can come in contact with high voltages. All equipment must include safety enclosures for high-voltage circuits and terminals, with door interlock switches to open the primary circuits of the power supply. In addition, provisions must be made to discharge high-voltage condensers whenever access doors are opened. Never bypass or “cheat” interlock switches to allow operation with access doors open. REMEMBER—HIGH VOLTAGE CAN KILL.

GLASS EXPLOSION

When handling glass tubes, remember that glass is a relatively fragile material, and accidental breakage can result at any time. Breakage will result in flying glass fragments; the larger the tube envelope, the greater the potential hazard. When handling such tubes, safety glasses (or even better, a face shield), heavy clothing and leather gloves should be worn for protection.

HOT SURFACES

Portions of the tube may reach high temperatures. Hot surfaces may remain hot for an extended time after the tube is shut off. Therefore, to prevent serious personal injury from burns, avoid any bodily contact with these surfaces both during and immediately after tube operation.

MERCURY

Power tubes containing mercury must be disposed of carefully to avoid possible harmful health and ecological effects. Care must be taken to avoid skin contact, ingestion, or inhalation of vapor. Exposure to mercury may cause serious personal injury including damage to the nervous system.

SERVICE REPORT INSTRUCTIONS

In returning an electron tube for test and inspection, the customer gives permission to manufacturer to break the ceramic bulb and to dissect the tube, in case such procedure is considered necessary, for a complete examination to determine whether failure was caused by a manufacturing defect. Moreover, the customer agrees that, in the event such procedure is necessary, he will not hold manufacturer liable for the return of any tube so dissected.

THE RETURN SHIPMENT MUST BE MADE BY THE CARRIER THAT DELIVERED THE TUBE

Unusual care should be observed in packing tubes involved in adjustment claims, as proper attention cannot be given to a claim unless the tube is delivered to us in the exact condition existing at the time of failure. The tube should be first be packed in a box slightly larger than the tube. This package should be floated in an outer shipping container sufficiently large to allow a minimum of four to six inches of styrofoam, bubble wrap, or foam rubber on all sides of the inner package. The outer container should be labeled with notations such as “Glass”, “Fragile”, “Handle With Care”, etc. A new unused corrugated box (of 200 lb. minimum rating) is required for UPS insurance to be valid.

TRANSPORTATION DAMAGE

All transmitting tubes should be given a thorough visual inspection and should be tested for continuity and short circuits immediately upon delivery. If found to be in normal condition, they should then be tested under load in the equipment in which they are to be used.

MECHANICAL DEFECTS SUCH AS LOOSE, SHORTED OR OPEN ELEMENTS, OPEN FILAMENTS, CRACKED OR BROKEN GLASS, ETC., ARE INDICATIVE OF MISHANDLING IN TRANSPORTATION. If such a condition is found, a damage claim should be filed immediately with the local agent of the transportation company, and the tube and its shipping container should be held in exactly the condition received pending instructions from the transportation company.

PACKAGING AND SHIPPING INSTRUCTIONS

Large transmitting tubes returned for inspection should be packed carefully in the original container and shipped via prepaid express to our Service Department.