



# NATIONAL

## MAGNETRON WARRANTY

(See part numbers below)

**NOTE:** *Warranty specific for NLM915 Series magnetrons from 30kW to 100kW.*

1. Warranty failures are those that occur during the warranty period that are attributable to National workmanship and/or materials. A list of failure conditions listed below are NOT covered by this limited warranty.

2. For all magnetrons (new and rebuilt) the time period of the warranty is 12 months after shipment of the tube to purchaser. The warranted hours of operation (filament voltage applied) is 2500 hours. Warranty adjustment is prorated, see example below.

3. If a warranty failure occurs within the first 500 hours of operation, and within the warranty, period the magnetron will be replaced or rebuilt, as determined by National, at no charge to the customer.

#### **4. Warranty proration after 500 hours of operation:**

The warranty adjustment is prorated for warranty failures occurring after 500 hours, and before the end of 12 months and 2500 hours of operation. The proration is based on the current purchase price for the tube and the remaining hours of warranty.

**Example :** For a tube currently priced at \$8000, which fails after 8 months and 2000 hours of operation:

$$\text{Warranty adjustment} = \frac{2500 \text{ hours} - 2000 \text{ hours}}{2500 \text{ hours}} \times \$8000 = \$1600.00$$

In this example, the warranty allowance of \$1600 is applied against the price of a new tube to replace the failed unit.

#### **The following items will NOT be accepted for warranty claims:**

1. Melted anode straps
2. Melted antenna
3. Broken or cracked ceramics
4. Premature cathode failure due to high reflected power or incorrect filament scheduling
5. RF arcing around the silver-plated gasket due to incorrect installation in the electromagnet
6. Arcing around the cathode or heater connectors due to insufficient tightening or short circuits
7. Damage or malfunction arising from loss of coolant flow, decrease of coolant flow below specified limits, or excessive temperature in any coolant circuit. This includes both liquid and forced air coolants.
8. Damage or malfunction caused by physical abuse to the magnetron.
9. Damage or malfunction caused directly or indirectly by high-voltage arcing, high VSWR, or by improper adjustment in any RF circuits, RF lines, RF components, or power supplies in the system, including voltage transients, surges and spikes in the AC prime power source

**NATIONAL ELECTRONICS**

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