

Section 5 Maintenance

5-1 Introduction

This section contains periodic maintenance and performance test procedures for the SPA9329-35 power booster amplifier. It also contains a list of test equipment required to perform the identified tasks.

NOTE

Check your sales order and equipment warranty before attempting to service or repair the unit. Do not break the seals on equipment under warranty or the warranty will be null and void. Do not return equipment for warranty or repair service until proper shipping instructions are received from the factory.

5-2 Periodic Maintenance

Periodic maintenance requirements are listed in table 5-1. Table 5-1 also lists the intervals at which the tasks should be performed.

Table 5-1 Periodic Maintenance

Task	Interval	Action
Inspection Cables & Connectors	12 Months	Inspect signal and power cables for frayed insulation. Check RF connectors to be sure that they are tight.
Performance Tests		No periodic maintenance is necessary beyond that recommended by the base station manufacturer.

5-3 Module Field Replacement

The SPA9329-35 power booster amplifier module can be replaced in the field on site by a qualified technician with adequate ESD protection and experience maintaining RF power amplifiers and similar equipment.

To replace a power amplifier module, proceed as follows:

1. Set the amplifier module DC power ON–OFF switch to OFF.
2. Disconnect the DC power cable from the amplifier module.
3. Disconnect the RF IN cable.
4. Disconnect the RF OUT cable.
5. Carefully remove the amplifier module.
6. Install replacement in reverse order.

Section 6 Troubleshooting

6-1 Introduction

This section contains a list of problems and a few suggested actions that may correct any problem with the SPA9329-35 power booster amplifier. If the suggested corrective action does not eliminate the problem, please contact your Powerwave field representative or the factory for further instructions.

NOTE

Check your sales order and equipment warranty before attempting to service or repair the unit. Do not break the seals on equipment under warranty or the warranty will be null and void. Do not return equipment for warranty or repair service until proper shipping instructions are received from the factory.

6-2 Troubleshooting

Refer to table 6-1 for troubleshooting suggestions.

Table 6-1 Troubleshooting

Symptom	Suggested Action
Amplifier Module Inoperative	Check for proper power supply voltage and that power input connector is properly seated in mating connector.
Amplifier Module Not Enabled	Check that the module ON-OFF power switch is set to the ON position.
TMP Indicator Not Illuminated	Verify input RF is within specified power and frequency limits. Check that the cooling fan is operating.

6-3 Return For Service Procedures

When returning products to Powerwave, the following procedures will ensure optimum response.

6-3.1 Obtaining An RMA

A Return Material Authorization (RMA) number must be obtained prior to returning equipment to the factory for service. Please contact our Repair Department at (888) 797-9283 or (714) 466-1000 to obtain this number, or FAX your request to (714) 466-5816. Failure to obtain this RMA number may result in delays in receiving repair service.

6-3.2 Repackaging For Shipment

To ensure safe shipment of the amplifier, it is recommended that the package designed for the amplifier be used. The original packaging material is reusable. If it is not available, contact Powerwave's Customer Service Department for packing materials and information.