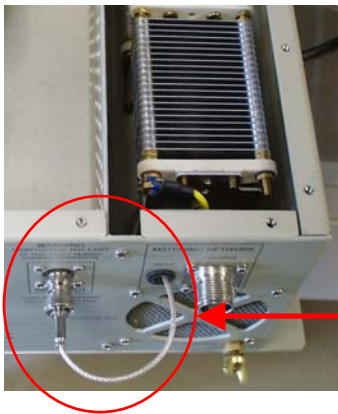
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	Model PB3 100 & 300 Watts How to add additional coax cable to the RF Generator > Match Input	Rev. date	Rev. 0

Product: Model PB-3

Subject: How to add additional coax cable to the
RF Generator > Match Input

The Model PB3 is typically manufactured and delivered to the customer with a 12' or $\frac{1}{4}$ wavelength coax cable that connects the RF generator section to the internal impedance matching network section. This cable has a fixed connection on one side to the matching network input point – the other side terminates in a type BNC male connector. It is routed through a grommet on the rear wall to the outside of the enclosure and referred to as the “dongle”.



The “dongle”

In some applications such as powering small sputtering cathodes or plasma electrodes, it is necessary to add an additional cable between the RF generator section and the input to the impedance matching network section to enable proper matching of the plasma load.

This document details the components and procedure to do this modification.

Locate the additional coax cable kit (typically 12' long (1/4 wavelength) with a BNC male to BNC female connector. We suggest that you start with a shorter length of cable such as 2' > 3' in length. Install this cable in series with the pigtail BNC connection on the PB3's rear panel. See the image below. This cable kit may consist of the cable described above, purchased from Manitou, or be made from a cable with two BNC male connectors and a dual female adapter.

Manitou Systems, Inc.

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Cable installed

Additional cable assembly



Ignite the plasma, re-tune and verify that the measured reflected power can be reduced.

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