Quick Start Guide

VectorStar™ ME7828A Series Broadband/Millimeter Wave System

High Performance Vector Network Analysis Measurement System from 10 MHz to 110 GHz

This quick start guide provides a brief overview of the ME7828A System assembly. Refer to the VectorStar™ ME7828A Series Broadband/Millimeter Wave System Installation Guide, found on the CD-ROM, for important safety and compliance information and for more details about the assembly, configuration, setup, and test of the equipment.

1. Installing the Instruments into the Console

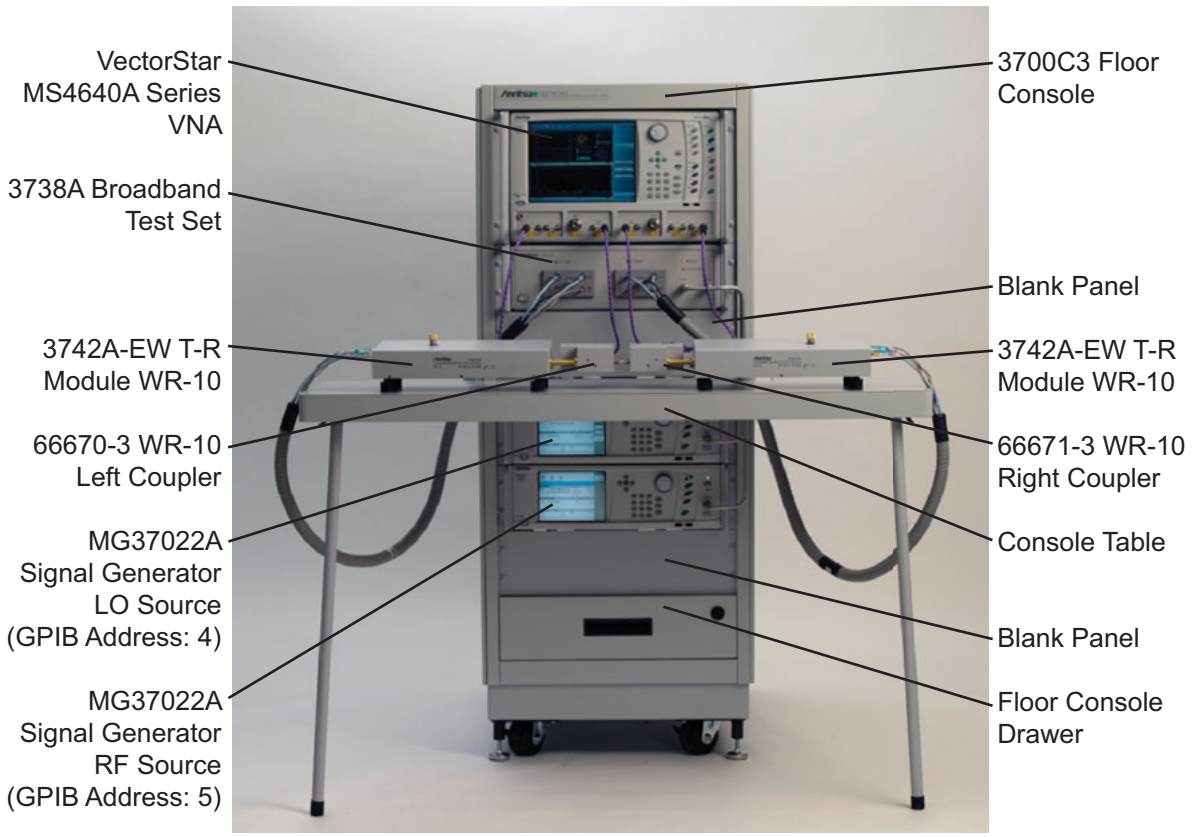

Figure 1. System Overview

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Part Number: 10410-00289
Revision: B
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2. Assembling the Console Table

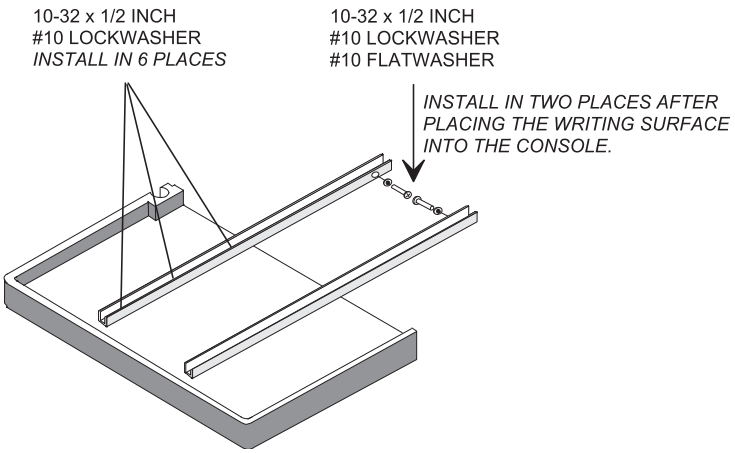

Figure 2. Console Table Assembly

3. Connecting the Rear Panel Control and BNC Cabling

The illustration below shows the rear panel control and GPIB cabling between the **MS4640A Series VNA** and the **3738A Test Set** (left), and the BNC cabling between the **MS4040A Series VNA** and the two **MG37022A Signal Generators** (right).

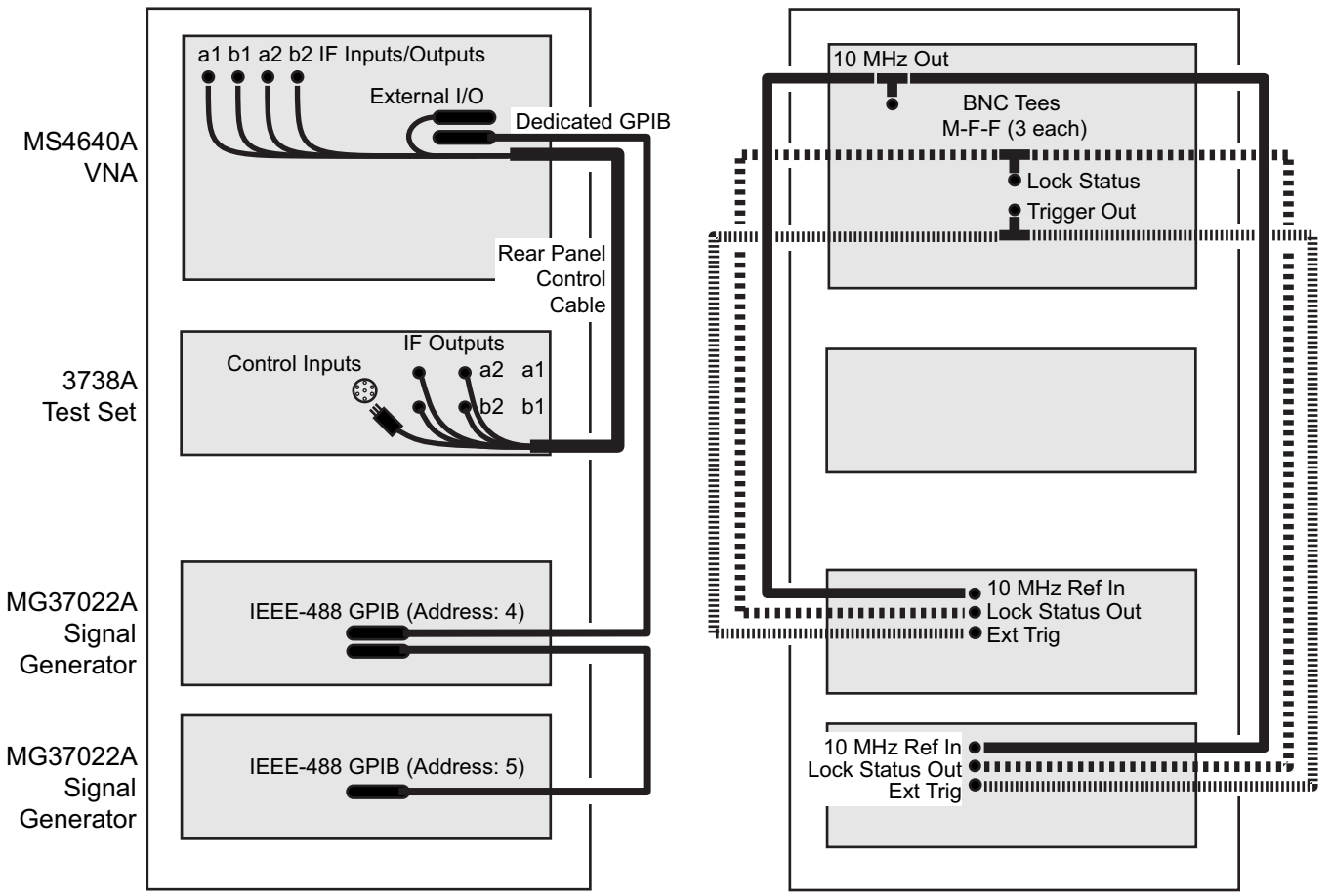

Figure 3. Rear Panel Cabling

4. Connecting the Test Set to the Signal Generators and WR-10 mmW Modules

The illustration below shows the **RF** and **LO cables** between the **Signal Generators** and the **Test Set**, and the **54094 Cable Assembly** connection between the **Test Set** and the **WR-10 mmW** modules.

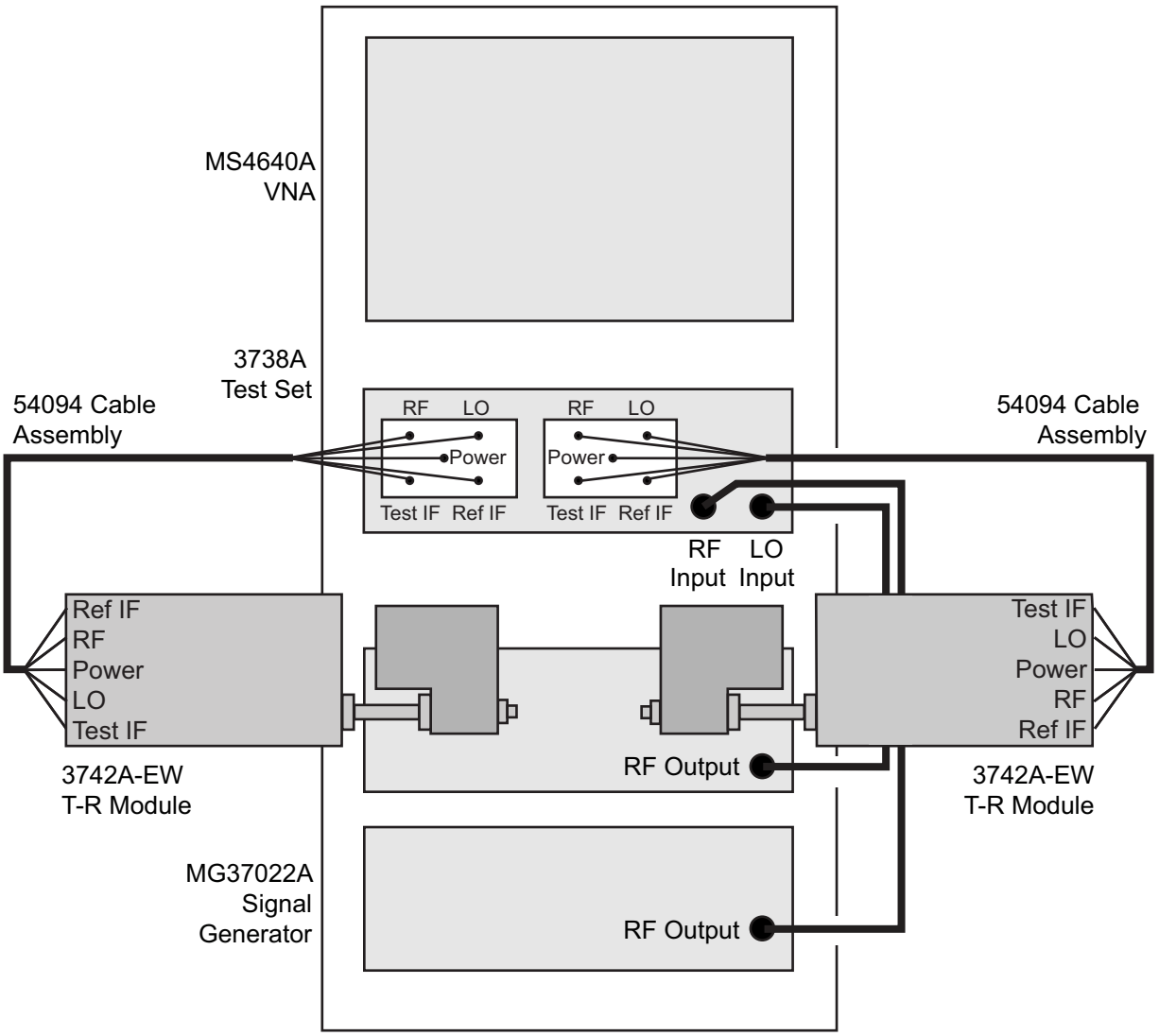

Figure 4. Test Set to MG37022A and WR-10 mmW Module Connections

The upper MG37022A Signal Generator used for the LO must be set to a GPIB Address of 4.
The lower MG37022A Signal Generator used for the RF must be set to a GPIB Address of 5.

5. Connecting the VNA to the 3642A-EW Combiners

The illustration below shows the **MS4640A b1** and **b2** input and **Port 1** and **Port 2** output connections to the **3742A-EW Combiners**.

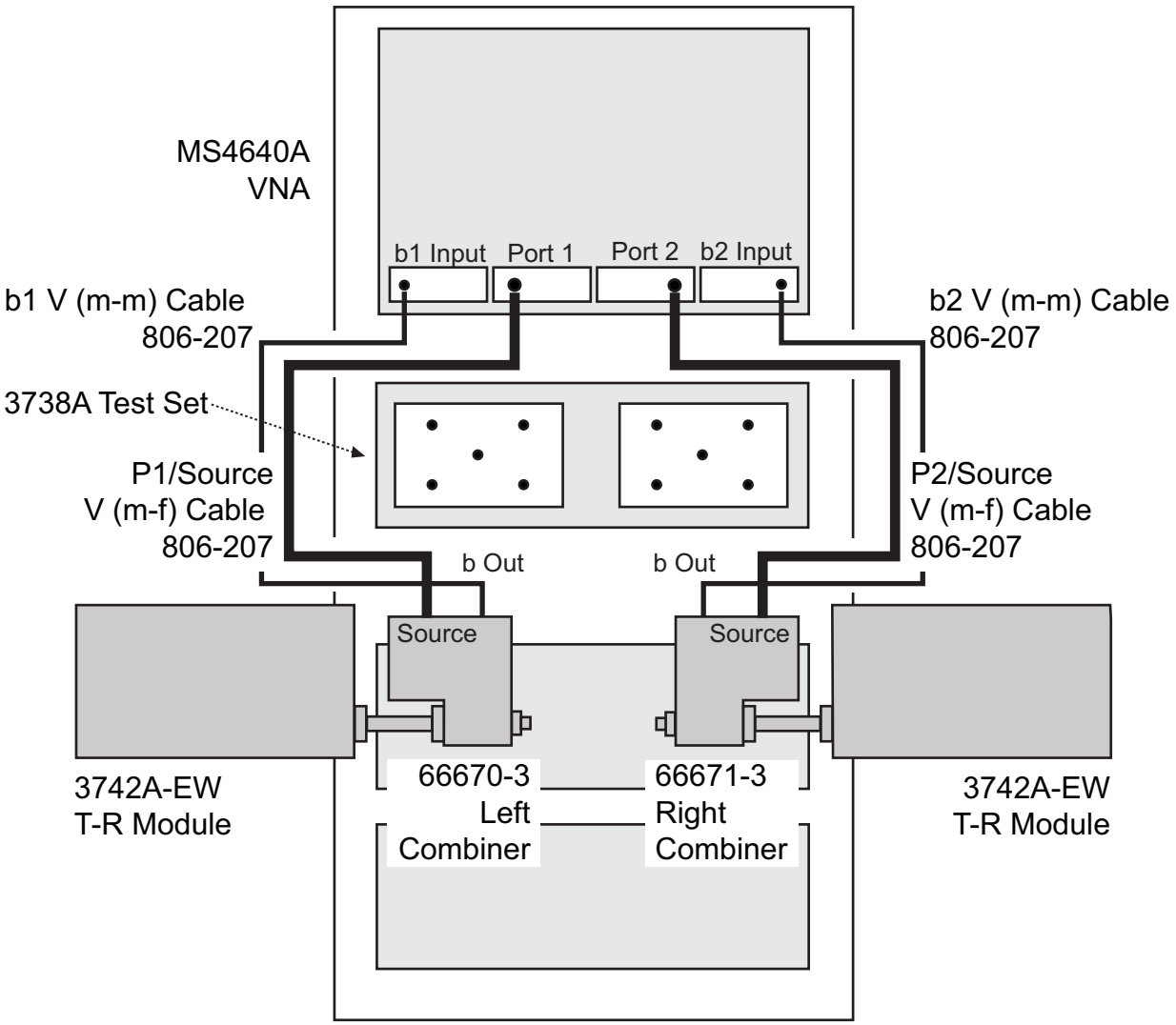

Figure 5. VNA to Combiner/Coupler Cable Connections