**Agilent G5563A/G5562A Bravo Platform –
Installation Checklist**

Thank you for purchasing an Agilent G5563A/G5562A **Bravo Platform**. This checklist is used by the installing engineer to ensure that the instrument and associated systems are correctly installed, upgraded and functioning as designed in your facility. This checklist will be completed at the end of the service and provided to you as a record of the installation.

Customer Information

Customers should provide all necessary operating supplies upon request of the engineer. The instrument is shipped with the sufficient consumables necessary to establish the functionality of the platform.

Service Engineer's Responsibilities

- Only complete/printout pages that relate to the system being installed.
- Complete empty fields with the relevant information.
- Complete the relevant checkboxes in the checklist using a "X" or tick mark "✓" in the checkbox.
- Complete Not Applicable check boxes to indicate services not delivered, as needed.
- Complete the Service Review section together with the customer.

Additional Instruction Notes

- Follow the unpacking instructions specified in the **Bravo Platform Unpacking Guide** (part number G5523-90000A), which is attached to the shipping container.
- Save the packing materials and shipping container in case you are required to move or ship the device. Packing the Bravo Platform using other materials might damage the device and void your warranty.
- The **G5562A, G5563A Bravo Platform Safety and Installation Guide** (part number G5562-90001A) is required for installing a Bravo Platform. Ensure the specific installation instructions stated in the guide are followed.

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System Information

Guidance

❑ **Check this box if an instrument configuration report is attached instead of completing the table.**

Instrument system name and ID	
Instrument system site and location	
List component product and part numbers	**List the serial numbers of each component**
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

General Preparation

- ❑ Verify that the Site Preparation Checklist has been followed and fully completed. Verify that the installation location meets the site requirements.
- ❑ Unpack/verify the condition and completeness of shipment. For discrepancies, use the table below.
  - ❑ Refer to **Bravo Platform Unpacking Guide** (part number G5523-90000A) for instructions on how to unpack the Bravo device.

    CAUTION: If installing Risers, ensure that the y-axis shipping stops remain installed on the head mount until after you install the Risers to prevent potential personal injury and equipment damage. Also, ensure the Head is removed or not in place. When tilting the Bravo Platform backwards to rest on its back plate on the EPE foam, the head mount can slide back rapidly along the y-axis and collide with the back plate. Use facility's assistance for lifting after installation is complete.

Product or part description	Observation	Action*

  *If you have questions about what action to take, contact https://fsg-assist.chem.agilent.com

- ❑ Discuss any specific questions or issues with the customer prior to starting.

  Note: For questions about the installation configuration, contact the Agilent Product Specialist.
- ❑ Discuss any configuration options with the customer prior to starting.
- ❑ Check for required service note applicability and firmware updates if connecting to instruments.
- ❑ If applicable, check that the customer-supplied PC/Laptop meets minimum requirements, e.g., Site Preparation Tool
  http://www.chem.agilent.com/en-US/Technical-Support/Software-Informatics/Utilities/Pages/SWSitePrepTool.aspx
- ❑ Upgrades only – Ensure with customer that instrument control settings, data, methods, and so forth, have been properly saved or archived prior to starting any installation procedures.
- ❑ Measure the main outlet line voltage _____ VAC

Installation Task #1 - Hardware Installation

Except where noted, see the **G5562A, G5563A Bravo Platform Safety and Installation Guide** (part number G5562-90001A) for the following tasks.

- ❑ If applicable, install the Agilent-supplied computer.
- ❑ If applicable, install the 146-mm Risers on the Bravo Platform, and then remove the y-axis shipping stops.
- ❑ Connect the Bravo Platform power cord, Light Curtain and emergency-stop pendant.
- ❑ Connect the Ethernet cable to the controlling computer.
- ❑ At the 9 deck locations, install the platepads or other deck accessories, as applicable. For instructions, see the **Bravo Platform User Guide** (part number G5562-90000A).

❑ Install the liquid-handling head.

❑ If applicable, install Pump Module 2.0. For instructions, see **Pump Module User Guide**
(part number G5406-90001).

Installation Task #2 Software and Accessory Setup

Except where noted, see the **Bravo Platform User Guide (part number G5562-90000A)** for the following
tasks.

❑ Install the VWorks Automation Control software. For instructions, see the release notes.

❑ Turn on the Bravo Platform and any accessories.

❑ In the VWorks software, verify the Bravo device file (.dev).

❑ In Bravo Diagnostics, create and verify the Bravo profile:

    ❑ Verify the settings in the Profile tab. Save the profile after any changes.

       Note: You will initialize the profile to establish communication with the device.

    ❑ Verify the deck configuration in the Configuration tab:

        o Configure any accessories, if applicable.

        o Test the accessory using the Diagnose Accessory feature to ensure proper functioning.
For example, verify the shaking RPM and stir direction of the Orbital Shaking Station,
verify a thermal accessory by setting the temperature at the highest and lowest set
points, and so forth.

        o Update and save the profile.

❑ Initialize the profile.

    ❑ Ensure that no unexpected errors occur. Depending on the settings in the Profile tab, the
following error messages may appear:

        o **A microplate-in-gripper** error message

        o **Verify that it is safe to home the W-axis** error message

    ❑ Observe the head as it homes and moves above deck location 5.

    ❑ Verify that the indicator lights on the Bravo front panel change colors correctly.

❑ In the Jog/Teach tab, set and verify the teachpoints for the profile using the customer's tip box. Fine
tune the teachpoint at each deck location.

❑ In the Gripper tab, verify the gripper y-axis offset. Test the pick-and-place feature in fast and slow
mode to ensure that the gripper operation is correct. Ensure good gripping is possible and no
abnormal sounds are present.

❑ Save the profile.

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Installation Task #3 - Final Verification and Safety Equipment

❑ Perform a mock run of a protocol to test the following basic tasks:

    ❑ Tips On, Mix or Aspirate and Dispense, and Tips Off.

      You can add a loop in the protocol to do this multiple times.

❑ Install the following safety equipment. See the **Bravo Platform Safety and Installation Guide** (part number G5562-90001A) for the following tasks.

    ❑ Install the Light Curtain, and verify the Light Curtain and emergency-stop pendant are functioning correctly.

    ❑ Install all applicable shields and the shield access covers.

Service Review

❑ Attach available reports/printouts to this documentation.

❑ Record the time/date of installation or upgrade completion in the customer's records/logbook.

❑ Complete the Service Engineer Comments section below if there are additional comments.

❑ Review the installation/upgrade with the customer.

❑ Explain Agilent warranty for instruments and PM's.

❑ Explain how to use the VWorks context-sensitive help (Knowledge Base), how to find the PDFs, and how to access the online VWorks Knowledge Base.

❑ Explain how to get self-help, FAQs from the web.

❑ Explain how to log an instrument service call, support services available.

❑ If the Instrument firmware was updated, record the details of the change in the Service Engineer's Comments box below or if necessary, in the customer's IQ records.

Service Engineer Comments (optional)

If there are any specific points you wish to note as part of performing the installation or other items of interest for the customer, please write in this box.

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Other Important Customer Web Links

❑ For additional information about Agilent automation products, please visit our web site at
http://www.agilent.com/en-us/products/automation-solutions

❑ Need to get information on your product?

    o VWorks Knowledge Base - http://www.agilent.com/chem/askb

    o Agilent Bravo product page - http://www.agilent.com/en-us/products/automation-solutions/automated-liquid-handling/bravo-automated-liquid-handling-platform

    o Agilent Library - http://www.agilent.com/en-us/library/literature

❑ Need technical support, FAQs? – http://www.chem.agilent.com/en-US/Technical-Support/Pages/default.aspx

❑ Need Support Services? - www.agilent.com/crosslab

Service Completion

Service request number   _____   Date service completed _____

Agilent signature   _____   Customer signature   _____

Number of pages in this document _____

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