

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.

Introduction

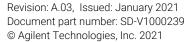
Customer Responsibilities

- 1 Customers should leave the instrument shipment for the engineer to unpack.
- 2 Customers should provide all necessary operating supplies upon request of the engineer.
- **3** A customer representative should be available to the engineer while performing the installation.
- **4** Some installation tasks will be beneficial to you if you are present refer to sections in this checklist.
- 5 If Option #020 is specified, the *Bravo Safety and Liability Waiver Agreement for Stand-alone Sales without Safety Light Curtains* (part number D0006132) must be completed before the Bravo installation is completed. If an authorized customer representative does not sign this waiver and does not plan to implement their own Bravo safety protection, the Agilent Field Engineer may not install the Bravo Platform.

Important Customer Web Links

- □ For consumables, see https://www.agilent.com/en/product/automated-liquid-handling/consumables-for-lab-automation and https://www.agilent.com/en/product/microplates
- ☐ You can find the product pages here: https://www.agilent.com/en/product/automated-liquid-handling
- ☐ An online VWorks Knowledge Base is posted at https://www.velocity11.com/techdocs/openingpage.html







	An Agilent Resource Center web page is available at https://www.agilent.com/en-us/agilentresources
	Need technical support, FAQs, supplies? – visit our <i>Support Home page</i> at http://www.agilent.com/search/support
	Get answers. Share insights. Build connections: Join the <i>Agilent Community</i> at https://community.agilent.com/welcome
Se	ervice Engineer's Responsibilities
	If Option #020 is specified on the sales order, ensure that the <i>Bravo Safety and Liability Waiver Agreement for Stand-alone Sales without Safety Light Curtains</i> form is signed by all parties before you complete the installation.
	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 "✓".
	Check "Section not applicable" check boxes to indicate services/tasks not delivered, as appropriate.
	Complete the Service Review section together with the customer.
	Complete the fields for page numbers at the foot of each selected page
	Complete the total number of pages field in the Service Completion section
	Ask the customer to sign the Service Completion section including the customer's and your signature.
Αc	dditional Instruction Notes
	Follow the unpacking instructions specified in the <i>Bravo Platform Unpacking Guide</i> (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 <i>G5562A</i> , <i>G5563A Bravo Platform Safety and Installation Guide</i> (part number G5562-90001B) is required for installing a Bravo Platform. Ensure the specific installation instructions stated in the guide are followed.

Agilent

Instrument Installation

System Information	
☐ Check this box if an instrument table.	configuration report is attached instead of completing the
Instrument System Name and ID	
Instrument System Site and Location	

List System Component Product Numbers	List the Serial Numbers of each Component
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	



Pr	eparatio	1		
	•	the Site Preparation (ation location meets th	Checklist has been followed and fully ne site requirements.	completed. Verify that
	below. Ref		completeness of shipment. For disc Inpacking Guide (part number G5523 tform.	
C	AUTION	remain installed on to prevent potential eq backwards to rest its slide back rapidly also	o on risers, ensure that the y-axis she head mount until after you instal uipment damage. When tilting the B is backplate on the EPE foam, the he ong the y-axis and collide with the b for lifting the Bravo after the riser in	I the risers to ravo device ad mount can ackplate. Use the
Pr	roduct or Pa	rt Description	Observation	Action
	Discuss ar	ny specific questions o	or issues with the customer before st	arting.
	Discuss ar	ny configuration option	ns with the customer before starting.	
	Check for instrumen	•	applicability and firmware updates if	connecting to
			e customer that instrument control s r archived before starting any installa	
	Measure t	ne main outlet line vol	tage VAC.	



Installation Procedure

Computer Workstation

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

	·
	Section not applicable
	Install the Agilent-supplied computer.
	Install VWorks Automation Control software:
	☐ If installing VWorks 13.1.x - Refer to the software release notes for details.
	☐ If installing VWorks 14 - Refer to the <i>Agilent G5263AA, G5264AA VWorks Software 14.0 Installation Checklist</i> (part number D0006694) for details.
Bra	avo Risers
	Section not applicable
	Install the Bravo on the risers.
Ma	ain Installation Tasks
	Section not applicable
	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. Refer to the <i>Bravo Platform User Guide</i> (part number D0004797).
	Install the liquid-handling head.
	If applicable, install Pump Module 2.0. Refer to <i>Pump Module User Guide</i> (part number G5406-90001).
Bra	avo Profile and Accessory Setup
Ref	fer to the Bravo Platform User Guide (part number D0004797) for the following tasks.
	Section not applicable
	Turn on the Bravo Platform and any accessories.
	In the VWorks software, verify the Bravo device file (.dev).

Revision: A.03, Issued: January 2021 Document part number: SD-V1000239

Page ___ of ___



	In I	Bravo Diagnostics, create the Bravo profile or verify the settings.
	No	te: You will initialize the profile to establish communication with the device.
		in the Profiles tab, verify the settings.
		In the Configuration tab, configure any accessories, if applicable.
		In the Configuration tab, test accessories using the Diagnose Accessory feature.
		For example, verify a thermal accessory by setting the temperature at the highest and lowest set points.
		Update and save the profile.
	Init	tialize the profile.
		Ensure that no unexpected errors occur.
		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 t	the Jog/Teach tab, set and verify the teachpoints using the customer's tip box.
		Fine tune the teachpoint at each deck location.
		Update and save the profile.
	In t	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.
		Update and save the profile.
Sa	fety	/ Equipment
	Se	ction not applicable because Bravo. Safety Waiver completed instead.
	Ins	stall the Light Curtain. See G5562A, G5563A Bravo Platform Safety and Installation Guide.
_		rify the Light Curtain and emergency-stop pendant function correctly. See <i>Bravo Platform er Guide</i> .
	Ins	stall all applicable shields and the shield access covers.

Revision: A.03, Issued: January 2021 Document part number: SD-V1000239

Page ___ of ___



Installation Checkout (Customer present)

Re	fer to the <i>Bravo Platform User Guide</i> (part number D0004797) for the following tasks.
	Perform a test/mock run of a protocol to test the following basic tasks:
	☐ Tips On
	☐ Mix or Aspirate and Dispense
	☐ Tips Off
Ν	Note: You can add a loop in the protocol to do this multiple times.



Signature Page

Se	rvice 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 following Service Engineer comments section if there are additional comments.
	Review the installation/upgrade with the customer.
	Explain Agilent warranty for instruments.
	Explain how to use manuals, guides, and online help.
	Explain how to get self-help, and FAQs online.
	Explain how to log an instrument service call and support services that are available.
	Advise customer of additional instrument training options.
	If the instrument firmware was updated, record the details of the change in the service engineer's comments box or if necessary, in the customer's IQ records.
Se	rvice Engineer Comments (optional)
t	he customer, please write in this box.
Se	rvice Completion
Serv	vice request number Date service completed
٩gil	ent signature Customer signature
Tota	al number of pages in this document
	sion: A.03, Issued: January 2021 ument part number: SD-V1000239 Page of

