Agilent CrossLab
From Insight to Outcome

Agilent CrossLab Start Up Services

Agilent 8890 SP1-0261 TOGA Installation Checklist

Thank you for purchasing an instrument from **Agilent Technologies**. CrossLab Start Up is focused on helping customers shorten the time it takes to start realizing the full value of their instrument investment. Installation, Introduction and First Run Assist are service engagements to get your new instrument and lab productive. Success starts here.

The CrossLab Start Up Installation provides the services for setting up your new system. This Checklist provides a record of the Installation.

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Introduction

Customer Responsibilities

- Customers should leave the instrument shipment for the engineer to unpack.
- Customers should provide all necessary operating supplies upon request of the engineer.
- A customer representative should be available to the engineer while performing the installation.
- Being present at some installation tasks will be beneficial to you – refer to sections in this checklist that are noted with **(*Customer Presence Recommended*).**

Important Customer Web Links

- The **Agilent Community** is an excellent place to get answers, collaborate with others about applications and Agilent products, and find in-depth documents and videos relevant to Agilent technologies. Visit https://community.agilent.com/welcome
- To access **Agilent University**, visit http://www.agilent.com/crosslab/university/ to learn about training options, which include online, classroom and onsite delivery. A training specialist can work directly with you to help determine your best options.
- A useful **Agilent Resource Center** web page is available, which includes short videos on maintenance, quick lists of consumables for new instruments, and other valuable information. Check out the Resource Page here: https://www.agilent.com/en-us/agilentresources
- Need technical support, FAQs, supplies? – visit our **Support Home page** http://www.agilent.com/search/support
- Videos about specific preparation requirements for your instrument can be found by searching the ***Agilent YouTube*** channel at https://www.youtube.com/user/agilent

Service Engineer's Responsibilities

The instrument is shipped as a fully tested Analyser.

The job of the Field Support Engineer is to:

1. Connect the external gasses to the GC.
2. Load the stored method onto the GC.
3. Reproduce the factory obtained chromatograms.

The FSE is not responsible for:

1. Running samples obtained from the customer (unless the checkout sample is not supplied).
2. Configuring the Network of the customer.

There is no need to modify the chromatographic conditions prior to system checkout. The GC has been fully tested at the Division.

*The FSE should **not** reconfigure the internal plumbing of the instrument.*

Note: Typical installation times are:

2.0 hours for 8890A GC and 2.0 hours for the Headspace sampler.
An additional 1.0 hrs has been added to the installation time of the GC in order to verify the operation of the analyser.
In addition, customers may have purchased 3.0 hrs familiarisation time.

System Information

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

Preparation *(Customer Presence Recommended)*

- ❑ Unpack/verify the condition and completeness of shipment. For discrepancies, use the following table.

Product or Part Description	Observation	Action

  - ❑ Before starting, discuss any specific questions or issues with the customer.
- ❑ Review with the customer the location in the lab for the instrument system and areas near the instrument where consumables, accessories and tools will be stored.
  - ❑ Before starting, discuss any configuration options with the customer.
- ❑ Check for required service note applicability and firmware update requirements.
  - ❑ **Upgrades only** – Ensure with customer that instrument control settings, data, methods, etc. have been properly saved or archived before starting any installation procedures.

Installation Procedure

Connect cables and Plumb Gasses

- ❑ Place the GC on the bench.
- ❑ Verify line voltage, GC Line power configuration, and power cord match.
- ❑ Compare GC Configuration voltage range from label on the unit with actual voltage at customer site.
  - Voltage Range from Label _____
  - Customer Line Voltage _____
- ❑ Install Tank Regulators and purge out the air as required
- ❑ Connect tubing to the tank regulators or house gas supply
- ❑ Install gas traps - purge each with carrier before connecting the next trap or the fitting to the GC
- ❑ Connect supply gases to the GC and Leak check/Pressure Test all gas connections.
- ❑ Connect detector gasses for the FID and TCD to the GC.
- ❑ Connect the valve actuation gas (N2 or Air) to the ¼" Teflon tubing.
- ❑ Plug in power cable and turn on GC
- ❑ Verify that the GC passes self-test
- ❑ Set carrier gas (Argon) line pressure to approximately 65 psi (448 KPa)
- ❑ Set detector gasses (H2, Air and N2) line pressure to approximately 50 psi (345 KPa)
- ❑ Set the actuation gas to 50 psi (345 KPa)
- ❑ Follow the procedure detailed in the Analyser manual under Installation for the connection of the Headspace Transfer line to the modified GC inlet.
- ❑ Verify Argon flows through the columns.
- ❑ Set oven temp to 250 deg C to bake out any contamination that may have accumulated during transit. Bake out for 15 minutes.
- ❑ Load the method as detailed in the Analyser manual.
- ❑ Connect the external cables, including LAN, signal output, and/or remote cables.

Column Connection, Conditioning and Bakeout ***(Customer Presence Recommended)***

- ❑ The columns will already be installed in the GC so there is no need to install them.
- ❑ Set the gas flows to the Detector and Set to Operating Temperature. Light the Flame and Turn on the TCD Filament etc.

Install the PC and Agilent Data System Software (if Included)

- ❑ **Section Not Applicable.** Omit this section if not included in the system.
- ❑ Install any Agilent Data System Software (GC and Headspace) if included with the GC system
- ❑ Launch and Configure the Agilent Data System Software to the GC system.

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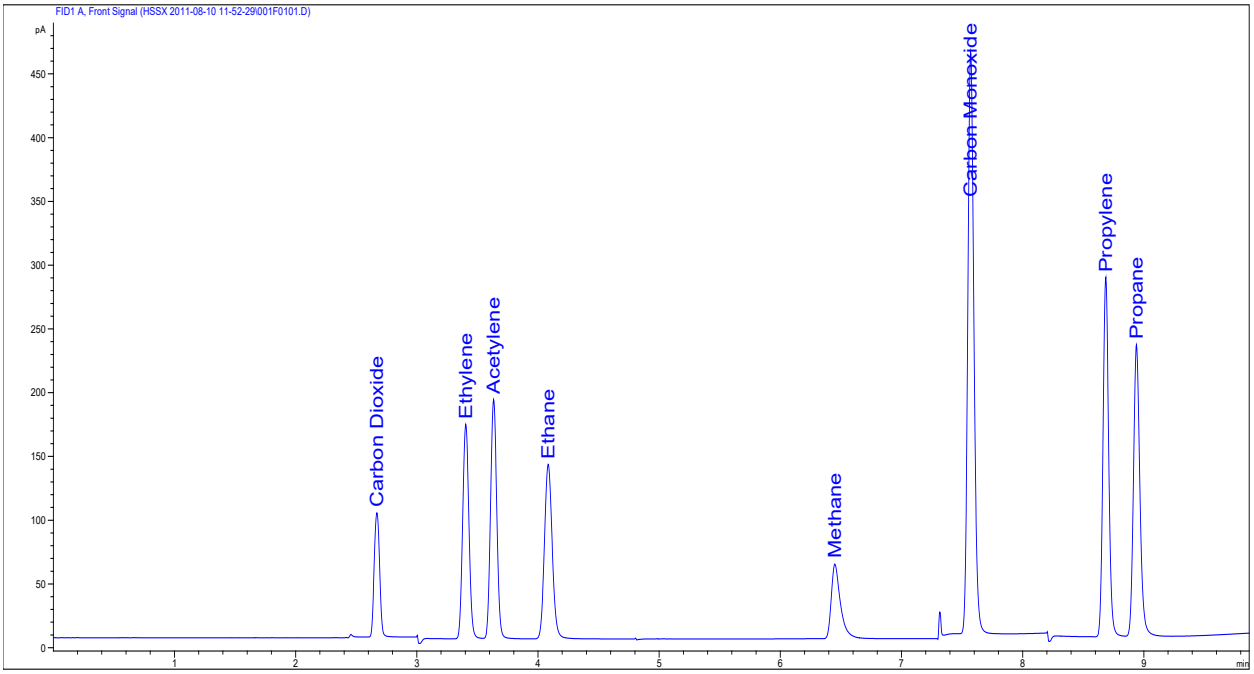
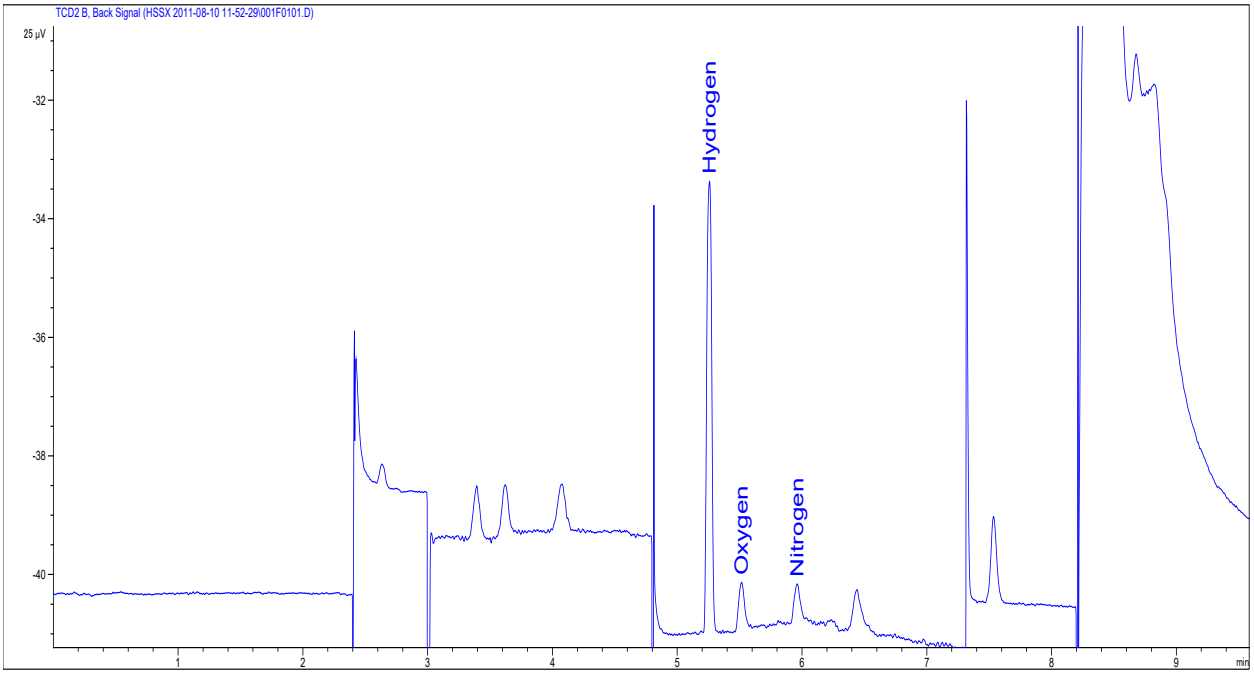
Installation Checkout (**Customer Presence Recommended**)

- ❑ The TOGA checkout sample will be shipped with the Analyser. (Checkout sample P/N G3440-85007)
- ❑ Following the Checkout procedure section of the manual, perform an injection of the checkout sample.
- ❑ Compare the obtained chromatogram to that shown in the manual.





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Other information

- ❑ Not included with this installation is the operation using the Headspace Sampler.
- ❑ If time permits or customer requires, it may be possible to run the analysis with the Headspace.
- ❑ This can be done by purging an open 20ml Headspace vial with Argon to remove the air. Purge the vial with the checkout sample and cap the vial.
- ❑ Perform an analysis using the Headspace Sampler. One thing to note is that the vial will have large amounts of air present, but you will only be looking to verify the timings and the retention times.

Service Review

- ❑ Attach available reports/printouts to this documentation.

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 include them in this box.

Service Completion

Service request number _____ Date service completed _____

Agilent signature _____ Customer signature _____

Total number of pages in this document _____

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