



GC Scheduled Maintenance Service

The GC Scheduled Maintenance Service is a proactive approach for maintaining system integrity. Designed to help you keep your gas chromatograph operating at high performance, this service module helps you to ensure critical maintenance and backup services are performed regularly. Our certified field engineering experts will perform:

- Gas chromatograph maintenance
- Sample handling system maintenance
- Application backups
- Onsite training
- Critical parts inventory
- Critical gas inventory



With a Blue Stacks contact, our customers enjoy:

- **Priority scheduling, with every attempt made to dispatch the same engineer for each scheduled visit.** Your request for the field engineer most familiar with your system will be honored whenever possible.
- **Multiple field service engineers who are familiar with your site.** This is accomplished through Blue Stacks' field engineer cross-training program, where our most experienced field service engineers are accompanied by our mid-level and entry-level field engineers to your site for training purposes (at no additional cost to the customer). In the event of an emergency, multi-
- **Warranty work, without the hassle of scheduling additional visits.** Any warranted services can be completed while your field service engineer is at you site for scheduled maintenance. The timespent on warranty work will not count toward the time included in your Blue Staks Maintenance Contract.
- **Comprehensive preventive maintenance service, including backups, data highway health inspection and troubleshooting, file clean-up, chromatogram adjustments as needed, and other necessary services.**





Scheduled Maintenance Services

In order to run at peak performance, gas chromatographs require regular maintenance. The following details the work to be carried out and parts that are typically replaced or overhauled during the maintenance process.

Our Blue Stacks service engineer will:

- Determine whether there are any known faults and address these either during or prior to carrying out the scheduled maintenance.
- Physically examine the gas chromatograph:
 - Carrier gas pressures are noted and checked against the original settings.
 - Ancillary gas pressures and flow rates are noted and checked against the original settings.
 - Sample flow rate is checked against the original settings.
- Change the elements of the inline stream filters as required.
- Overhaul the chromatographic valves as required.
- Ensure the sample shut-off valves operate correctly, and repair as required.
- Check that the stream selection solenoids are operating correctly. Replace internal stream selection solenoids as necessary where external stream selection is used. Advise customer of problem and corrective actions taken.
- Check detector bridge balance and adjust as necessary.
- Check flame ionization detectors as applicable for leaks from the exhaust pipe and to ensure electrical voltages are correct.
- Run and compare a chromatograph of the calibration gas (supplied by customer) with a chromatogram taken of the calibration gas at the installation or last maintenance visit to ensure:
 - The separation between peaks is being maintained.
 - Identification and integration of peaks of interest are correct and adjusted as necessary.
 - Timed events and component data are adjusted as necessary.
 - Parameter lists are updated in the controller.
 - Copies of the application and chromatograms are saved in the GC service file and provided to the customer.
- The GC is returned to normal operation and is functioning correctly.

Our services cover full range of Gas Chromatograph products, which include but not limited to the manufacturers shown below.

