LITE CHECK®
BRAKE & LIGHT DIAGNOSTIC PRODUCTS

CERTIFIER MODEL 912

MAINTENANCE INSTRUCTIONS AND PARTS BOOK

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One Tool, One Person, One Process. LITE CHECK.

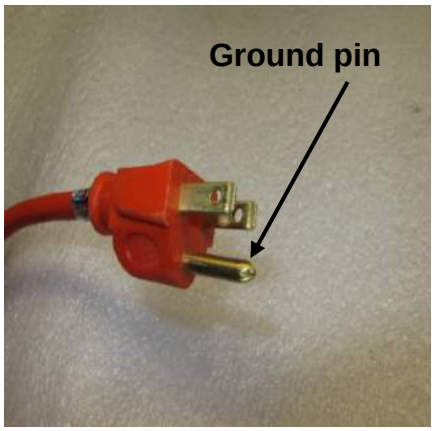
Revision History:

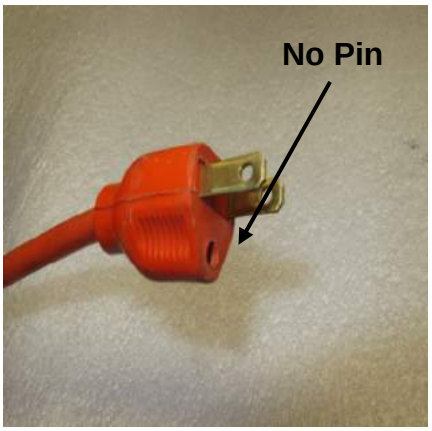
Name	Date	Changes	Version #
Gene Ambacher	October 2, 2013	Initial Draft	1.0.0
Gene Ambacher	October 14, 2013	Final Draft	2.0.0

Congratulations on your purchase of the 912 Certification System. As you become familiar with the system be sure you learn to protect it to ensure a long life and eliminate repair costs. **Make sure you have a planned maintenance schedule**.

Make sure that your input power **always** contains a ground pin.

Note: a good AC earth ground is necessary for the 912 to have accurate 121 time data. Make sure that the AC electrical outlet is properly grounded and that the neutral ground reference point is not greater than 100 feet from the AC outlet. Do not use AC extension cords that has less than 14 AGW gauge wires and are great than fifty feet in length. In high EMF noise areas (near welding machines) a new neutral ground reference point at the AC outlet maybe needed. *Contact your local Electrician for help.*



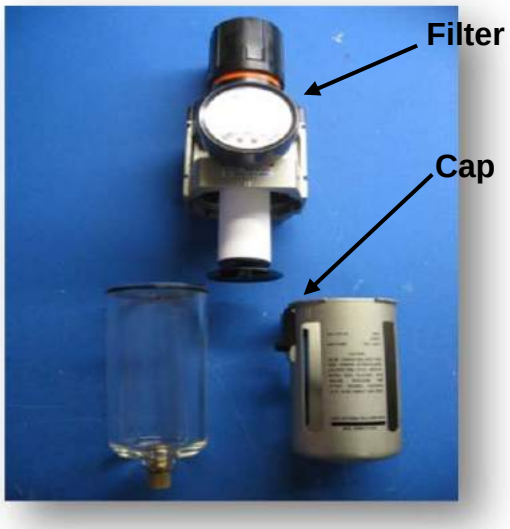


Always keep the access doors closed on the equipment to minimize dust exposure. Occasionally blow out any dust that gets trapped at the rear of the computer.

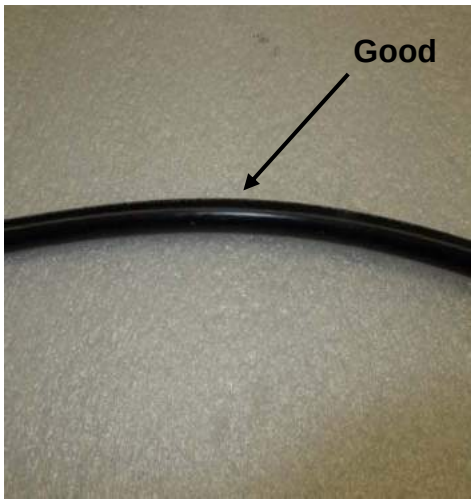
Access Door Closed

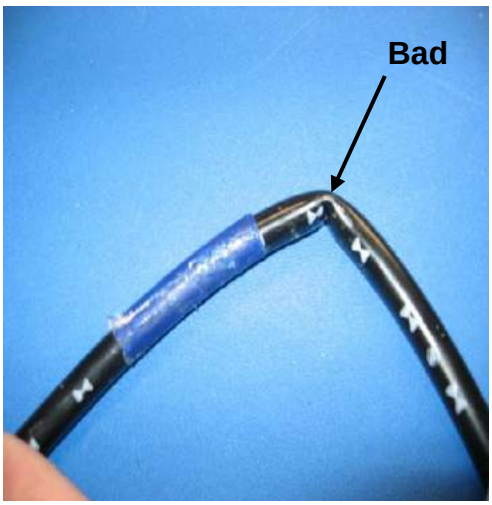
Computer Tower

Make sure your input air is moisture free and no lubricants are added. This could cause the manifold's internal components to not function properly. Air quality should be inspected regularly. Take the bottom cap off the regulator and make sure the filter is clean and dry **(Filters may vary).**

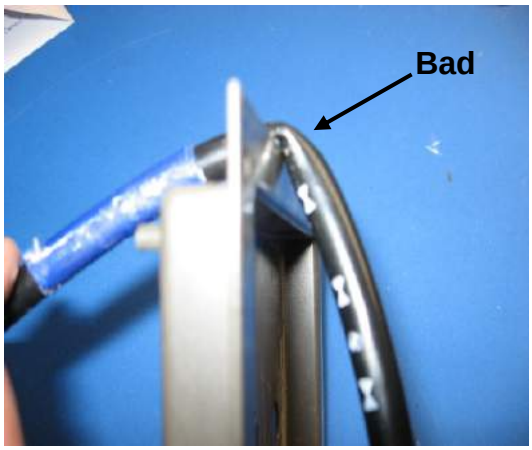


All hoses inside and out of the tester should be straight with no kinks.





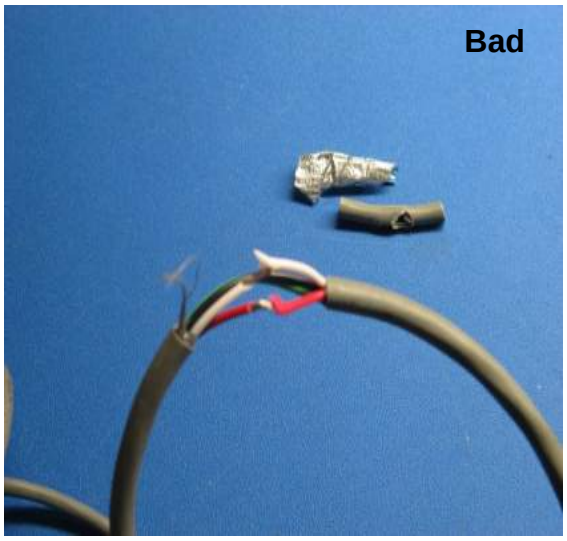
If you choose to add equipment inside the system (not recommended), be sure that the additional equipment does not compromise air flow in the air lines.



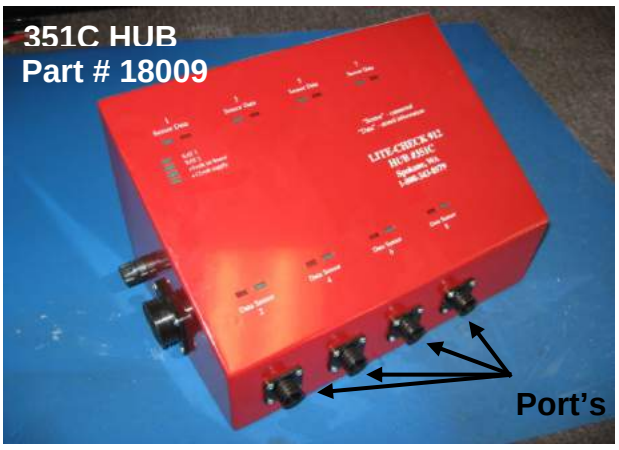
Warning: The sensor (transducer) is a very sensitive piece of equipment. Do not drop or bang the sensor against hard surfaces. Do not use any tool on the body of the sensor. Do not drag the sensor cable by the sensor body. Any physical damage to the sensor will cause the sensor to go out of calibration and void the warranty.

If you suspect the sensor to be faulty, **do not disassemble** the product. Disassembly could loosen or break internal wires and cause permanent damage. The sensor's status can be checked with the hub diagnostic tab on the GUI screen, or by calling Lite-Check for troubleshooting instructions.

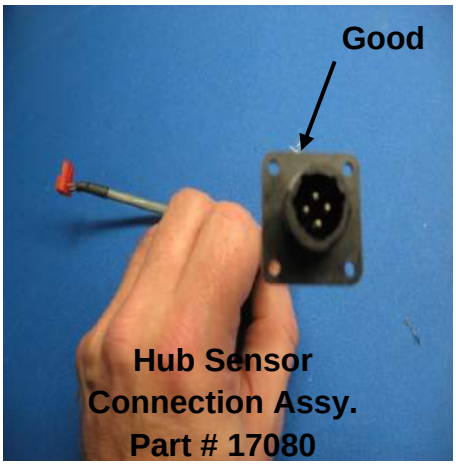
When testing is in progress, all cables should be placed in a safe path away from high traffic areas. This prevents the cable being run over and/or cut, causing wires to short and severely damaging electronic equipment inside the tester. **Inspect the cables on a regular basis**.

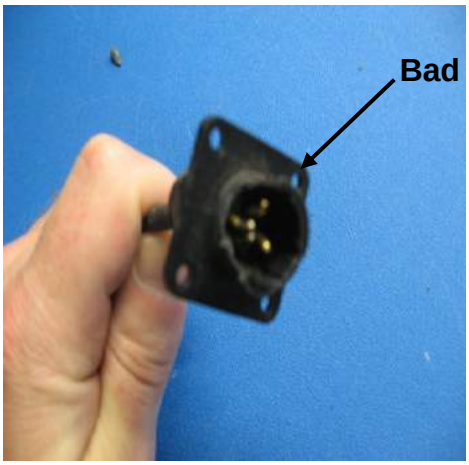


Place the hub in safe zones during tests. The 8 sensor ports on the hub should be checked regularly for damage.



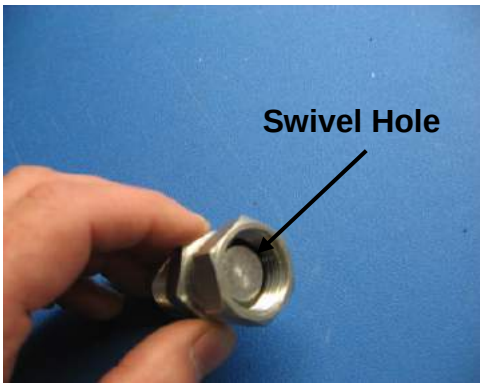
The 4 contact pins in each hub sensor receptacle should be straight and equally spaced. Damaged pins making contact will cause costly damage to the hub's circuitry. **If the pins are broken, replace immediately.**





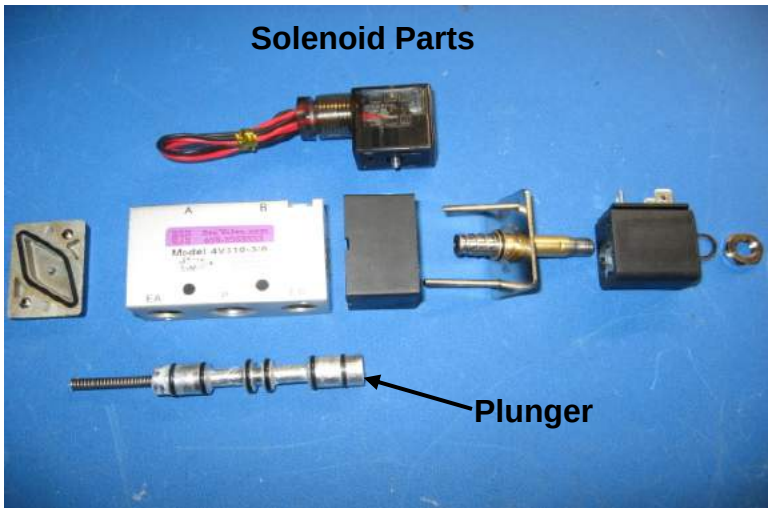
All air lines and plugs should be clean and free of debris. Test results will be inaccurate and may cause failures. Replace these items as needed

Air differential kits gathering data during tests are highly sensitive. The straight swivel in the manifold has a .0018 inche hole drilled through it. Any debris trapped in the manifold will affect the test results causing failures.

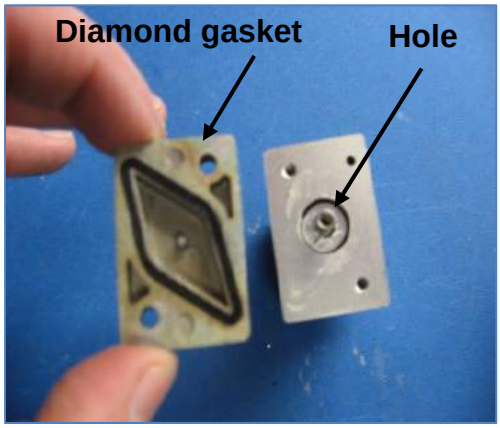


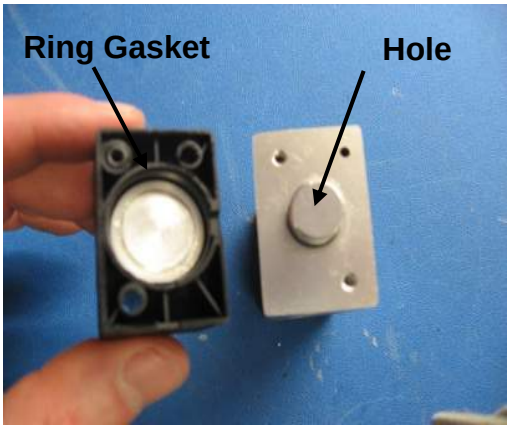
Manifolds, if properly maintained, will provide quality test results for many years to come. However, with time, the valves in the solenoids can become thin on grease – especially with bad input air – and have to be serviced. (Styles of manifolds may vary.)

If a solenoid service body kit is required – before breakdown make sure you become familiar with all the pieces involved in the solenoid assembly and the orientation of each piece. **Part numbers may vary so call for details**.

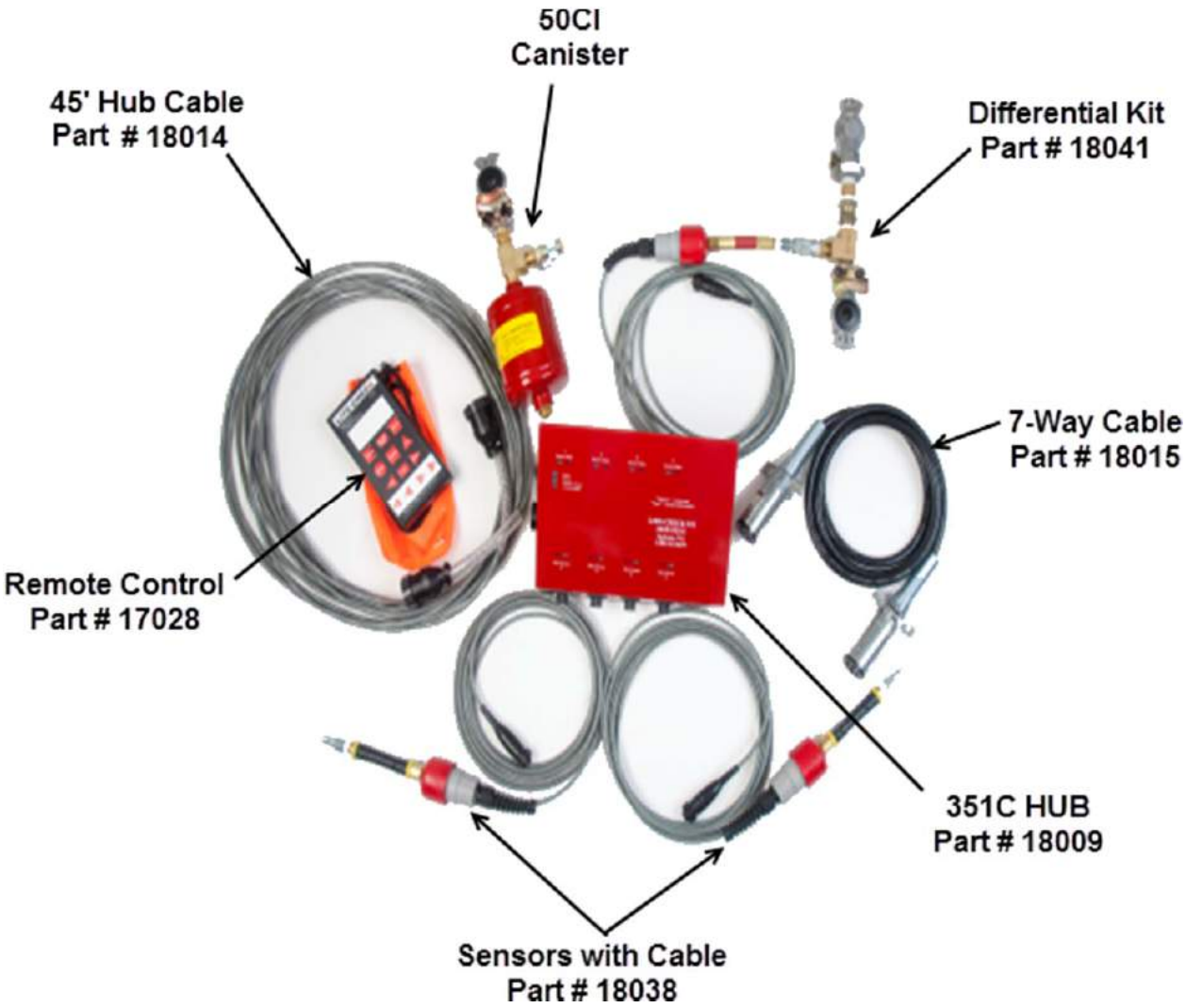


After breaking the solenoid down, clean all pieces (especially the plunger) and apply a light coat of silicon grease. When reconnecting the solenoid make sure the gaskets on the end caps are positioned to block the corner holes, or air leaks will occur.





Be sure to properly stow the equipment with the tester or in a safe environment after the testing is completed.



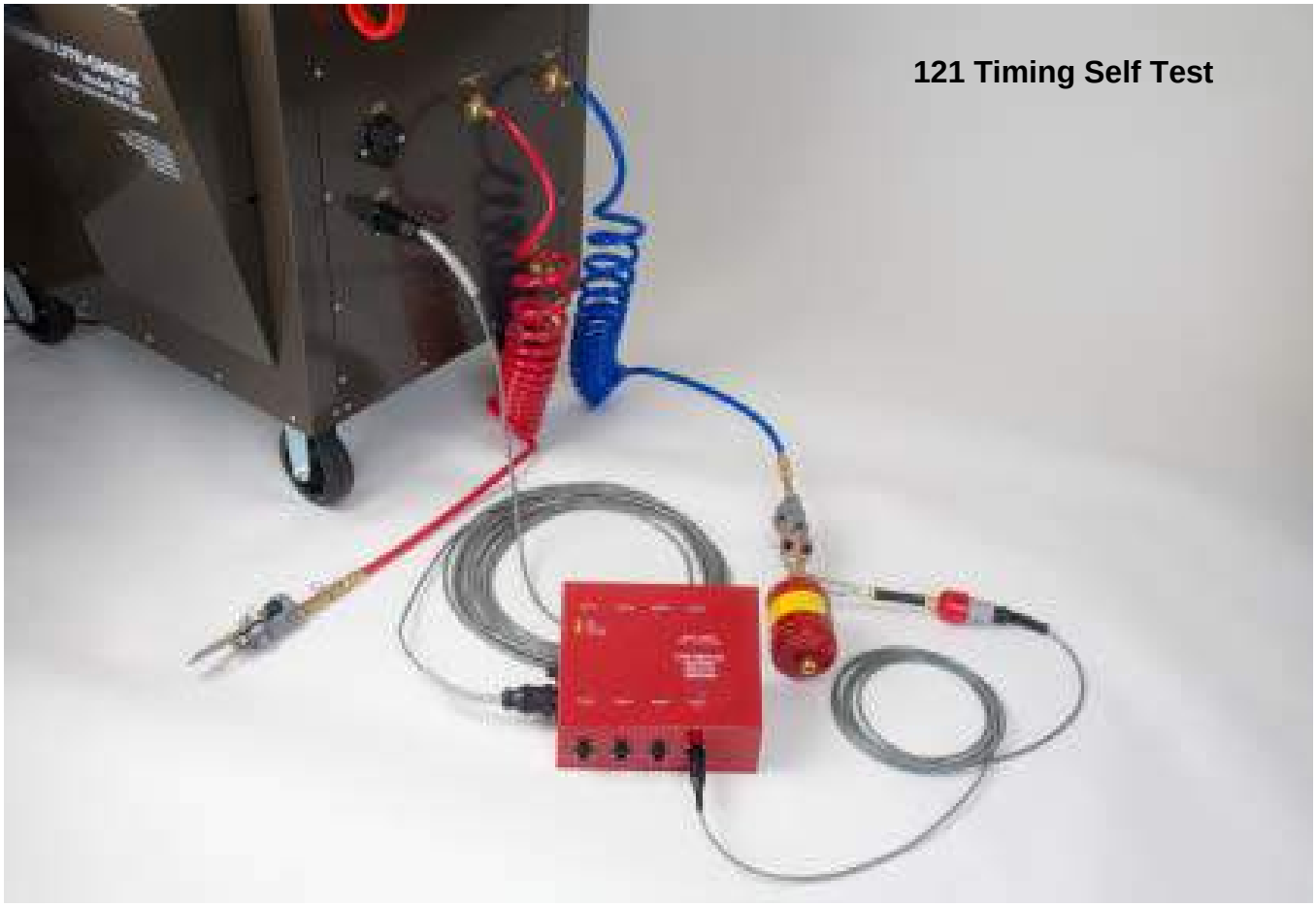
Place equipment in a safe clean environment away from high traffic areas when testing.

If you choose to add your own storage unit for equipment, **DO NOT** weld anything to the tester and make sure the mounting hardware does not interfere with the components inside or outside of the tester.

Custom supports can be added to the Hub to limit any physical damage.

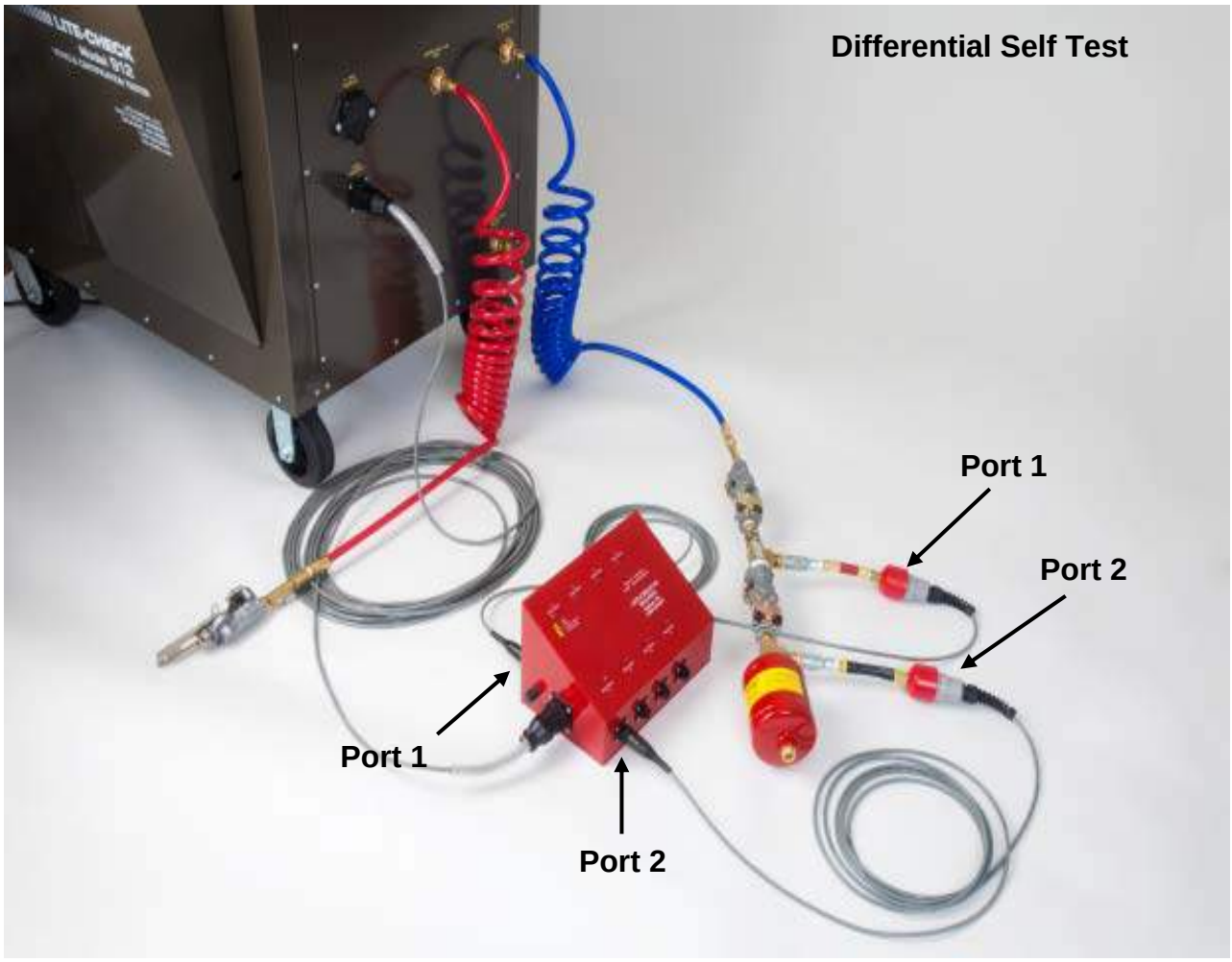
When running self tests make sure the equipment is set up correctly.

To run the 121 Timing Self Test, connect the service (blue) glad-hand to the 50 CI canister. Plug sensor into canister assembly and choose a port (1-8) on the hub.

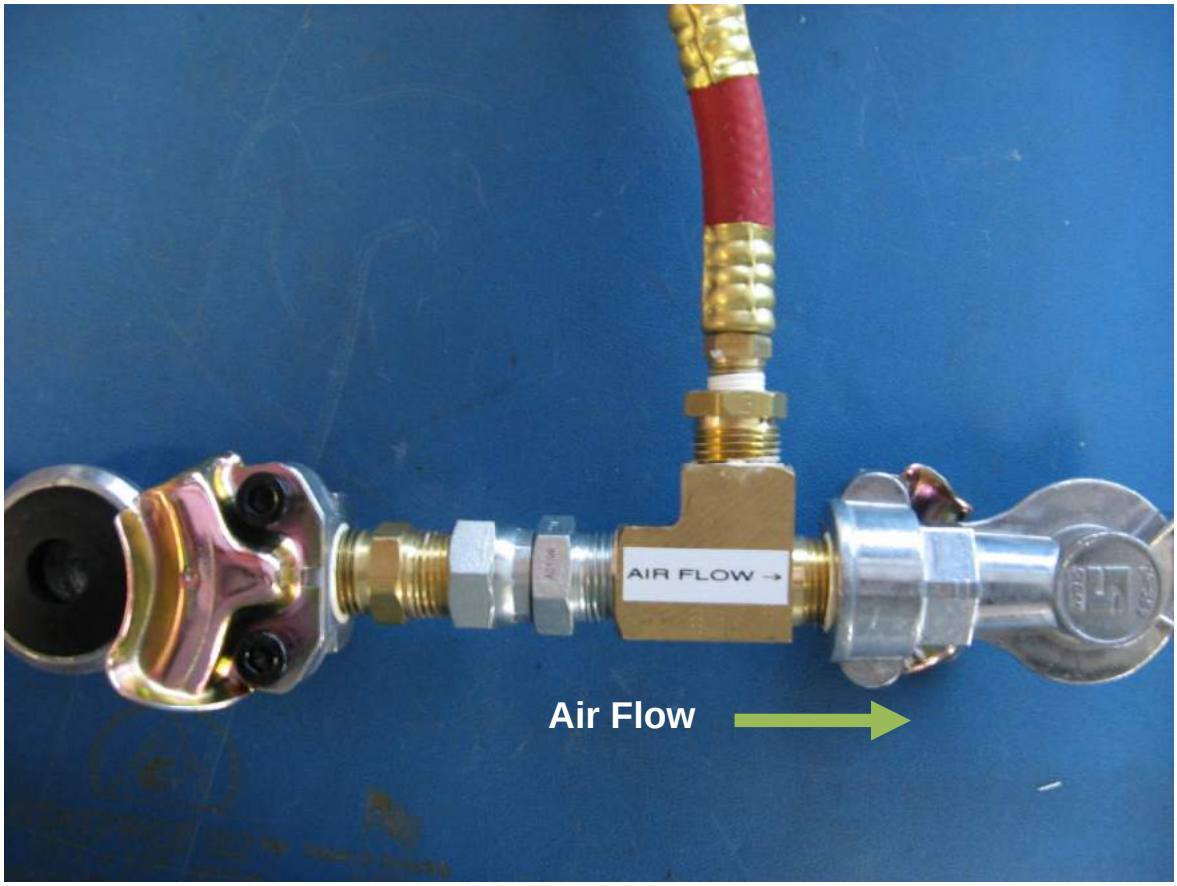


121 Timing Self Test

To run the **Differential Self Test**, shut off the red, emergency glad-hand and connect the blue service glad-hand to the differential manifold. Make sure to follow the air flow direction (see next page) on the differential manifold, and connect to the 50 CI canister. Plug the first sensor into the differential manifold, and connect other end to **Port 1** on the hub. Plug the second sensor into the 50CI canister and connect the other end to **Port 2** on the hub. **Warning**: Be sure not to confuse the ports or else test results will fail.



When running Differential tests, always make sure that air flows through the swivel towards the sensor connection.



Accessories

50 CI Canisters
Part # 18025

Remote Control
Part # 17028

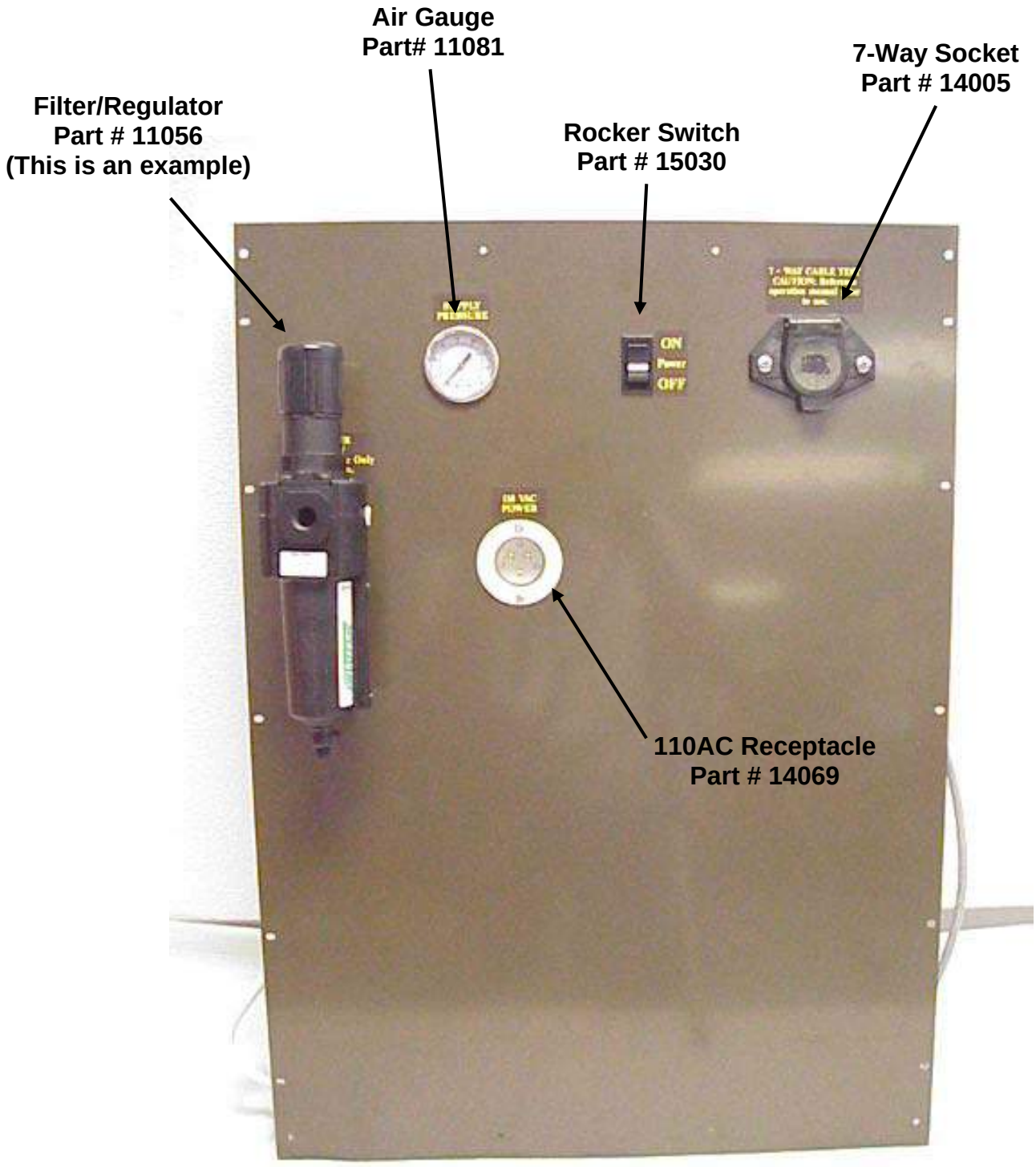
351C HUB
Part # 18009

8’ 7-Way Cable
Part # 18015

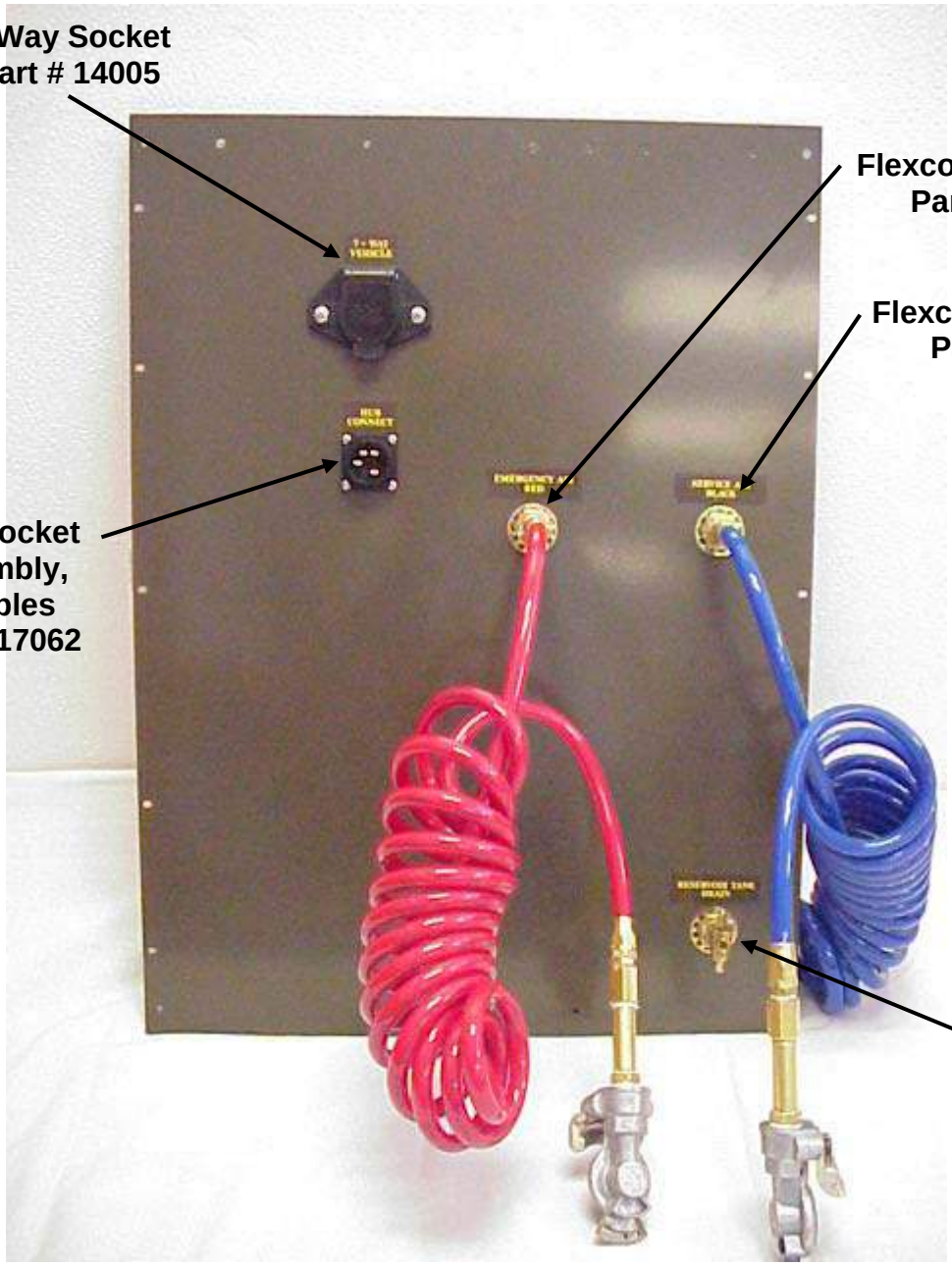
15’ Sensor w/cable
Part # 18038

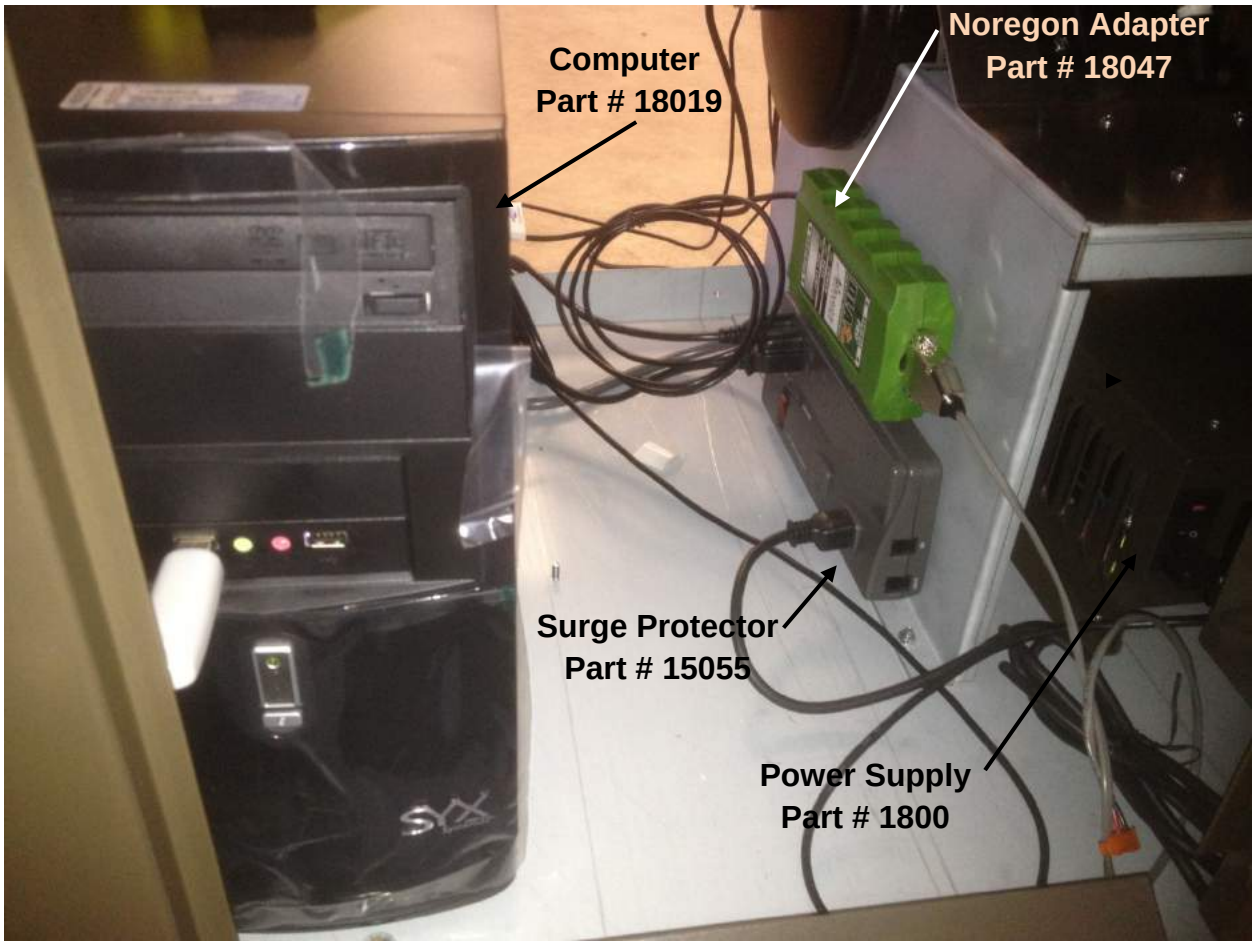
363 Air Differential
Part # 18041

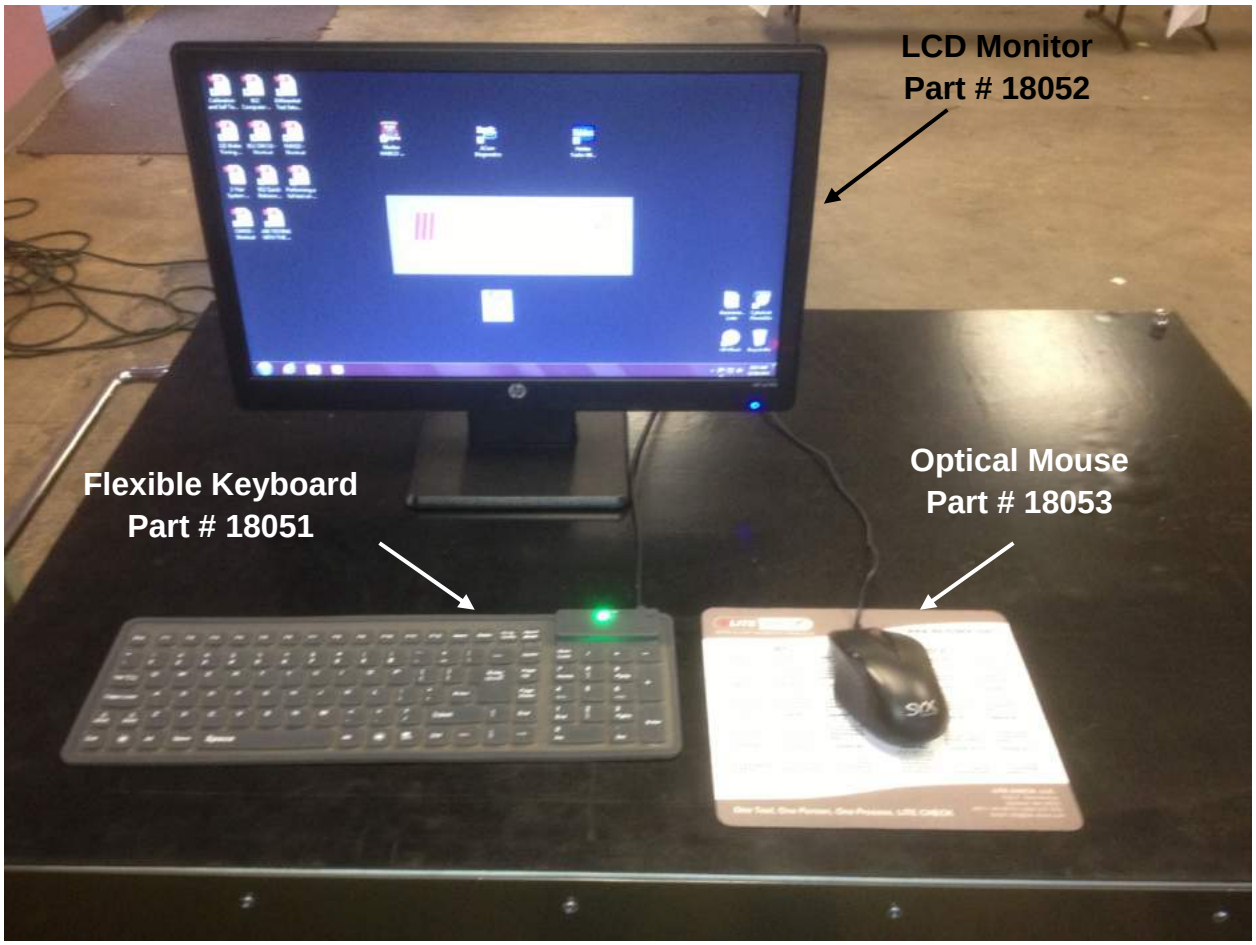
Left Panel Parts



Right Panel Parts




Computer
Part # 18019
Noregon Adapter
Part # 18047
Surge Protector
Part # 15055
Power Supply
Part # 1800


LCD Monitor
Part # 18052
Flexible Keyboard
Part # 18051
Optical Mouse
Part # 18053

912 AIR DIFFERENTIAL KIT

912 Air Differential Kit (18041)

- 363 Differential Sensor Cable Assembly (18023)
- 363 Differential Manifold with Sensor Assembly (18024)