

EQUIPMENT SERVICE ON SITE

EquiServ®



Providing Factory Service For
Automotive Service Equipment

Model: EEEA124A
SIS-914 Puerto Rico
Service / Inspection
System Analyzer Setup

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Installation Instructions

**INSTALLATION MUST BE PERFORMED
BY
QUALIFIED SUN PERSONNEL ONLY**

INSTALLATION OVERVIEW:

The SIS-914 Puerto Rico Analyzer is shipped as a fully assembled analyzer, with the exception of the Keyboard, Monitor, Printer and accessories. The following instructions will provide you with the steps necessary to completely setup the analyzer.

PARTS & ACCESSORIES:

| PART NUMBER | DESCRIPTION | QTY |
|--------------|--|-----|
| 0131-0031-01 | Gas Bottle Regulator | 2 |
| 0301-0944-01 | Filter Element, 75 Micron | 4 |
| 0301-0945-01 | Filter Element, 8 Micron | 4 |
| 0424-0804-01 | Velcro, Loop | 11" |
| 0424-0804-02 | Velcro, Hook | 11" |
| 0507-0025-01 | Anti-Dilution Exhaust Probe | 1 |
| 0528-0028-01 | Printer, Okidata, 184 Turbo | 1 |
| 0528-1088-01 | Printer Paper | 1 |
| 0528-1092-01 | Ribbon, Cartridge | 1 |
| 0552-0072-01 | 1.44 Megabyte Floppy Unformatted | 1 |
| 0552-0103-01 | Mouse Pad | 1 |
| 0552-0104-01 | DOS 6.22 Package | 1 |
| 0552-0117-01 | Keyboard | 1 |
| 0552-0125-01 | Windows 3.11 | 1 |
| 0552-0130-02 | Mouse, PS2 | 1 |
| 0552-1086-01 | Keyboard Cover Protector | 1 |
| 0610-1511-04 | Screw, Sheet Metal #8 X ¼ | 4 |
| 0692-1834-01 | Quality Control Questionnaire, SEL 1043C | 1 |
| 0692-2291-01 | Product and Warranty Registration Form | 1 |
| 0692-2442-01 | Operators Manual (Generic) | 1 |
| 0692-2453-01 | SIS Generic Banner | 1 |
| 0692-2469-01 | QR Card | 1 |
| 0787-0035 | Probe Caps | 2 |
| 1-4281 | Filter, In-Line | 2 |
| 1-7726 | Screw, 10-32 x ½", HWHTT | 6 |
| 2161-0023 | Lead Hanger | 6 |
| 3-608 | Monitor, 15" SVGA Color | 1 |

| PART NUMBER | DESCRIPTION | QTY |
|--------------|--|-----|
| 3988-0230-01 | Hose Assembly, Exhaust 3/16 | 1 |
| 3988-0231-01 | Hose Assembly, Exhaust Dual 3/16 | 1 |
| 5-2645 | Clamp, Cable | 1 |
| 5878-0016 | Cable Tie, 14.5" | 1 |
| 6004-0262-05 | Cable Assembly, Trigger Pickup | 1 |
| 6004-0462 | Test Lead, Volt / Ohm | 1 |
| 6004-0566-01 | Cable Assembly, Tachometer Lead | 1 |
| 6004-0614-01 | Antenna Cable | 1 |
| 6005-0181-01 | Adapter Assembly, Nissan Pulsar/Quad 4 | 1 |
| 6005-0184-01 | Adapter, Rpm, BMW | 1 |
| 6005-0184-02 | Adapter, Rpm, Acura | 1 |
| 7009-1869 | Probe Exhaust Assembly. | 2 |
| 7009-1929 | Trigger Pickup Assembly. | 1 |
| 7009-2037-01 | Antenna, RPM (Figure 8) | 1 |
| 7009-2223-01 | Adapter, RPM, Nissan 300ZX Turbo | 1 |
| EAA0136C01A | Hose, Low Scale Gas ID Tag | 1 |
| EAA0136C02A | Hose, Mid Scale Gas ID Tag | 1 |
| EAA0190L10A | Hanger, Lead | 4 |
| EAE0026L10A | Printer, Laser | 1 |
| EAL0234C00A | Label, Keyboard | 1 |
| EAL0264C00A | Label, Service Call | 1 |
| EASC071C82A | Bracket, Bar Code Scanner Storage | 1 |
| EASC071C83A | Bracket, Bar Code Scanner Mounting | 1 |
| EAW0096C00A | Monitor AC Power Cable | 1 |
| TEEEA124A | Installation Instructions | 1 |

REQUIRED TOOLS: _____

- CALIBRATION GAS
- COMPLETE TOOL KIT
- SECURITY SCREWDRIVER BIT
- ANTI-STATIC KIT
- SERVICE KEYS 215 and 225, (from Technical Support)

INSTALLATION INSTRUCTIONS: _____



NOTE: *If the SIS was soft shipped (shipped without a carton) skip steps 1 through 4.*

1. Cut the Straps, and remove the top of the carton, top packing, and carton sides.
2. Slide the SIS and carton base off of the pallet, and split the corners of the base carton.
3. Lean the SIS so that one half of the foam base can be removed.
4. Lean the SIS so the other half of the foam base can be removed.
5. Remove all shipping tape from the SIS Cabinet.
6. Check for proper AC and GROUND connections at the outlet. This can be accomplished by using an AC outlet polarity checker that can be obtained at a local hardware store.
7. Place the Operate/Standby switch in the operate position.
8. Verify that the parts and accessories listed are all present with the analyzer.
9. Remove the swivel base from the current monitor and discard.

NOTE: *If you are mounting a 17" Sampo monitor to the analyzer, the back mounting bracket, on the monitor mounting bracket base plate, must be turned around to accommodate the larger monitor.*

10. Place the monitor into the monitor base plate with the back of the monitor, push snug against the back bracket. Slide the front bracket snug up to the front of the monitor and tighten the nuts of the brackets.
11. Fasten the Velcro straps over the top of the monitor and snug down.
12. Remove and discard the Monitor AC Power Cable that was shipped with the monitor.
13. Connect the Monitor AC Power Cable (EAW0096C00A) to the back of the monitor, and to the AC port on the rear panel of the analyzer labeled "Video Power".
14. Connect the Data cable coming from the rear of the monitor to the port on the rear of the analyzer, below the monitor, labeled "Video".

NOTE: *The Blue and Red connectors, for the Speakers in the monitor, do not get connected. They can be tie wrapped to the Video Data Cable.*

15. Remove the bubble wrap from the keyboard (0552-0117-01) and the Mouse (0552-0130-02), and ensure the keyboard it is plugged into the keyboard extension cable under the monitor. Place the Mouse Pad (0552-0103-01) on top of the computer cover.

NOTE: *The following steps may have been completed at the factory.*

16. Attach the Keyboard Label (EAL0234C00A) to the top of the keyboard.

NOTE: *Failure to install the keyboard cover will result in the keyboard warranty being voided.*

17. Attach the Keyboard Cover (0552-1086-01) to the top of the keyboard.

NOTE: *Proper position of the keyboard is defined by ensuring the keyboard does not come in contact with the Standby/Operate Switch when the printer cover (printer shelf) is lifted.*

18. In order to mount Velcro turn the keyboard upside down, peel the backing off the hook side Velcro (0424-0804-02) and attach it to the keyboard. Attach the soft side (Loop) Velcro (0424-0804-01) to the Velcro Hook. Remove backing, exposing adhesive, and place keyboard in its proper position and press firmly.
19. Remove the Packaging from around the Laser Printer (EAE0026L10A).

20. Load approximately 100 sheets of the package of printer paper (0528-1088-01), into the paper cassette of the laser printer. Place the rest of the paper in the storage drawer.
21. Using the six 10-32x1/2" screws (1-7726), install the six hangers (2161-0023) into the slots on the rear corners of the Analyzer. Three slots are located on each corner of the tester's stand.
22. Attach the four (4) Lead Hangers (EAA0190L00A) to the Unit Handles.

NOTE: The Bar Code Reader Bracket can be mounted on either side of the Analyzer.

23. Mount the Bar Code Scanner Mounting Bracket (EASC071C83A) to the underside of the Computer Cabinet Sheet Metal Assembly, using two of the #8 X 1/4 Sheet Metal Screws (0610-1511-04).
24. Mount the Bar Code Scanner Storage Bracket (EASC071C82A) to the Mounting Bracket just installed, using two of the #8 X 1/4 Sheet Metal Screws (0610-1511-04).
25. Place the following items in the storage drawer below the computer and printer section:
 - (4) 75 Micron Filter Elements (0301-0944-01)
 - (4) 8 Micron Filter Elements (0301-0945-01)
 - (1) Anti-Dilution Probe (0507-0025-01)
 - (1) Printer Laser Cartridge (0528-1092-01)
 - (1) DOS 6.22 Package (0552-0104-01)
 - (1) Windows 3.11 (0552-0125-01)
 - (2) Exhaust Probe Leak Check Caps (0787-0035)
 - (1) Quad 4 / Nissan RPM Adapter Cable (6005-0181-01)
 - (1) BMW RPM Adapter Cable (6005-0184-01)
 - (1) Acura RPM Adapter Cable (6005-0184-02)
 - (1) Nissan 300ZX RPM Adapter Cable (7009-2223-01)
 - (1) Gas Cap Tester Interface Cable (EAW0160L01A)
 - (1) Gas Cap Tester Adapter Cable (EAW0160L0A)
 - (2) In-Line Filter (1-4281)
26. Connect the Antenna RPM Cable Assembly (6004-0614-01) to the Antenna Figure 8 Loop (7009-2037-01). Attach the other end of the Antenna RPM Cable Assembly to the "ANT." connector on the rear of the analyzer.
27. Referring to Figure 1, measure back 4" from the connector that attaches to the Figure 8 Loop. Place that point on the cable next to the Figure 8 Loop and place a Cable Tie (5878-0016) on it. This will stop the cable from being pulled out of the Antenna Cable Connector.



Figure 1, Antenna Modification

28. Connect the Trigger Pickup (7009-1929) to the Trigger Pickup Adapter Lead (6004-0262-05).
29. Connect the 30 foot Blue Trigger Pickup Cable (6004-0566-01) to the Assembled pieces in the previous step. Attach the other end of the 30 foot Blue Trigger Pickup Cable to the "TACH." connector on the rear of the analyzer.
30. Connect the Volt/Ohm Lead (6004-0462) to the "V / Ω " connector on the rear of the analyzer.

31. Connect the Exhaust Hose Assembly (3988-0230-01) to the filter bowls on the rear on the analyzer.
32. Connect the Dual Exhaust Hose (3988-0231-01) to the female quick disconnect fitting on the Exhaust Hose Assembly, installed previously.
33. Connect an Exhaust Probe (7009-1869) to both fittings on the end of the exhaust hoses.
34. Attach a regulator (0131-0031-01) to each gas bottle (supplied locally)
35. Attach the hoses (EAA0136C0*A) to the proper gas regulator brass fitting.
36. Attach the aspirator hose to the Aspirator port located on the rear panel of the Emissions Drawer. Route the other end of the aspirator hose through the base of the analyzer. Ensure that the hose goes through the top and bottom holes in the base.
37. Give the Product and Warranty Registration documentation to the Analyzer Owner and ensure that it is filled out and mailed.
38. Place the Service Call Label (EAL0264C00A) on the rear of the machine, as close to the Serial Plate as possible.
39. Present the SIS Banner (0692-2453-01) to the customer and offer to hang it in a central location.
40. Provide the Owner with the Operators' Manual(s).
41. Completely fill out the Quality Control Questionnaire (0692-1834-01) and mail it according to the instructions printed on the form.

NOTE: *The 1.44 Megabyte Unformatted Floppy Disk (0552-0072-01) will be used when installing the software into the Service Inspection System.*

42. Reference the Puerto Rico Auditors Manual for installation and Setup of System Software.
43. Place these Installation Instructions in the appropriate Appendix of your Service Inspection System Service Manual.

INSTALLATION COMPLETE