

EQUIPMENT SERVICE ON SITE

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Providing Factory Service For
Automotive Service Equipment

Model: EEEA114A
SIS-906 Georgia
Service / Inspection
System Analyzer Setup

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Installation Instructions

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

INSTALLATION OVERVIEW:

The SIS-906 Georgia Analyzer is shipped as a fully assembled analyzer, with the exception of the Keyboard, Monitor, Printer and accessories. The following instructions, along with the Zero Air Kit (EAK0097C00AF) will provide you with the steps necessary to completely setup the analyzer.

PARTS & ACCESSORIES LIST:

PART NUMBER	DESCRIPTION	QTY
0131-0031-01	Gas Bottle Regulator	2
0271-0103-01	Calibration Gas	Local
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"
0528-0032-01	Printer, Okidata 390 Turbo	1
0528-0994	Printer Paper	1
0528-1094-01	Ribbon, Printer	1
0552-0104-01	DOS 6.22 Package	1
0552-0117-01	Keyboard	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
0692-2440-01	Installation Instruction	1
0692-2442-01	Operators Manual (Generic)	1
0692-2453-01	SIS Generic Banner	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
3-12926	1.44 Megabyte Floppy formatted	1
3-608	Monitor, 15" SVGA Color	1
3988-0230-01	Hose Assembly, Exhaust 3/16	1
3988-0231-01	Hose Assembly, Exhaust Dual 3/16	1
5-2645	Clamp, Cable	1

PART NUMBER	DESCRIPTION	QTY
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
EAA0145C00A	Gas Cap Pressure Tester Assembly	1
EAA0190L10A	Hanger, Lead	4
EAK0097C00AF	Zero Air Kit	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
EAW0166L03A	Cable, Gas Cap Tester Interface	1
EAW0179L00A	Dyno Interface Cable	1
EERC102A	Remote Control	1
YA9020	Wheel Chock	1
ZEEEE114A	Operator's Manual (Specifically For Georgia)	1

REQUIRED TOOLS:

- GEORGIA GAS BOTTLE (0271-0103-01)
- COMPLETE TOOL KIT
- ANTI-STATIC KIT
- SERVICE KEYS (from Technical Support), (215 and 225)

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 into the operate position.
8. Verify that the parts and accessories listed are all present with the machine.

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, and ensure that it is plugged into the keyboard extension under the monitor.

NOTE: *The following step may be complete at the factory.*

16. Attach the Keyboard Label (EAL0234C00A) to the top of the keyboard (0552-0117-01).

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

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

19. Place a package of printer paper (0528-0994), in the rectangular spot, under the slide out printer shelf.

20. Remove the Printer (0528-0032-01) from its carton. Remove all tape from the lower printer and remove the carriage cover to gain access to the print head. Referring to Figure 1, ensure that the printer ribbon cartridge is installed properly and remove the plastic stop securing the print head.

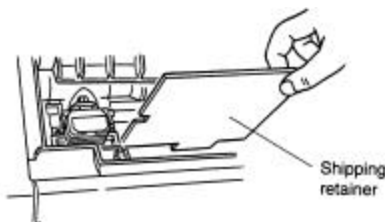


Figure 1, Shipping Retainer Removal

21. Load the printer paper, installed in step 19 into the Printer.

22. Referring to Figure 2, remove the Ribbon Cartridge Inspection Cover, by gently pulling up on the middle of this cover until it pops off.

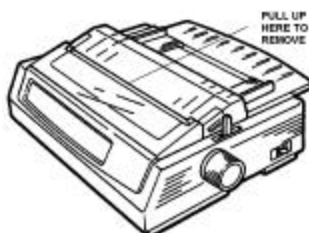


Figure 2, Ribbon Cartridge Inspection Cover Removal

23. Place the printer on the printer shelf, in the opening below the keyboard. Attach the power cable and data cable, already located in the analyzer, to their respective ports on the back of the printer.
24. Attach a wire tie to the rear of the printer, just behind the power connector of the printer to secure both the Printer Power and Data Cables. This will stop the cables from getting in the way of the paper.
25. 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.
26. 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.*

27. Mount the Bar Code Scanner Mounting Bracket (EASC071C83A) to the underside of the Computer Cabinet Sheet Metal Assembly, using two of the #8 X ¼ Sheet Metal Screws (0610-1511-04).
28. Mount the Bar Code Scanner Storage Bracket (EASC071C82A) to the Mounting Bracket just installed, using two of the #8 X ¼ Sheet Metal Screws (0610-1511-04).
29. Remove the Gas Cap Tester (EAA0145C00A) from its packaging.
30. Attach the RJ45 end of the Gas Cap Tester Interface Adapter Cable (EAW0166L03A) to the RJ45 connector on the Gas Cap Tester.
31. Measure back two inches on the end of the Gas Cap Tester Cable just connected. Attach the Cable Clamp (5-2645) at this point on the cable.
32. Remove the screw in the bottom left hand corner of the control panel on the Gas Cap Tester. Using the Screw just removed attach the secure the cable clamp to the Gas Cap Tester.
33. Attach the other end of the Gas Cap Tester Cable to the port labeled "**COM A2**" on the rear of the analyzer.
34. 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) Printer Ribbon (0528-1094-01)
 - (1) DOS 6.22 Package (0552-0104-01)
 - (2) Exhaust Probe Leak Check Caps (0787-0035)
 - (1) BMW RPM Adapter (6005-0184-01)
 - (1) Acura RPM Adapter (6005-0184-02)
 - (1) Nissan 300ZX RPM Adapter (7009-2223-01)
 - (1) Quad 4 / Nissan RPM Adapter (6005-0181-01)
 - (2) In-Line Filter (1-4281)
35. 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.
36. 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.
37. Connect the Trigger Pickup (7009-1929) to the Trigger Pickup Adapter Lead (6004-0262-05).
38. 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.

39. Connect the Volt/Ohm Lead (6004-0462) to the "V / W" connector on the rear of the analyzer.
40. Connect the Exhaust Hose Assembly (3988-0230-01) to the filter bowls on the rear on the analyzer.
41. Connect the Dual Exhaust Hose (3988-0231-01) to the female quick disconnect fitting on the Exhaust Hose Assembly, installed previously.
42. Connect an Exhaust Probe (7009-1869) to both fittings on the end of the exhaust hoses.
43. Following the Instructions in the Zero Air Kit (EAK0097C00AF), mount the Zero Air Bottle to the Analyzer.
44. Attach a regulator to the gas bottle (supplied locally).

NOTE: *The Calibration Gas Bottle Hose to hooks to "CAL GAS 1"*

45. Attach the hoses (EAA0136C0*A), with label, to the proper calibration tank brass fitting.
46. Attach the aspirator hose to the Aspirator Port. 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 of the base.
47. Unpack the Gas Cap Pressure Tester Assembly (EAA0145C00A), and place all the accessories to that unit in the storage drawer.
48. Connect the Gas Cap Pressure Tester Cable to the Gas Cap Pressure Tester and the other end to the port on the rear of the SIS label "COM F".
49. Remove the Oxygen Sensor cover, retain the hardware.
50. Screw Oxygen Sensor into Oxygen Block and attach the Oxygen Sensor Harness to the Oxygen Sensor.
51. Re-mount the Oxygen Sensor Cover.
52. Give the Product and Warranty Registration documentation to the Analyzer Owner and ensure that it is filled out and mailed.
53. Place the Service Call Label (EAL0264C00A) on the rear of the machine, in a place that is easily readable by the customer.
54. Present the SIS Banner (0692-2453-01) to the customer and offer to hang it in a central location.
55. Provide the Owner with the Operators' Manuals.
56. Completely fill out the Quality Control Questionnaire (0692-1834-01) and mail it according to the instructions printed on the form.

NOTE: *The Wheel Chocks, Dyno Interface Cable and Remote Control will be used in conjunction with the Dynamometer.*

57. Power up the analyzer and wait until the analyzer boots.
58. Ensure the printer is on and press and hold <SHIFT>, and press <SEL>. This puts you in the Menu Mode.
59. Press <GROUP> until "Rear Feed" is displayed.
60. Press <ITEM> until "Rear Feed, Form Tear-Off, Off" is printed.
61. Press <SET> twice and it will print "Rear Feed, Form Tear-Off, 1 sec". This advances the paper to the tear bar automatically after printing a page.
62. Press <PRINT>, and ensure the printout matches Table 1, on the next page. Press <SEL>, to return back to the Print Mode.
63. Reference the Georgia Auditors Manual for installation and Setup of System Software.

Printer Control	Emulation Mode	IBM PPR
Font	Print Mode	LQ Courier
Font	Pitch	10 CPI
Font	Proportional Spacing	No
Font	Style	Normal
Font	Size	Single
Symbol Sets	Character Set	Set I
Symbol Sets	Language Set	American
Symbol Sets	Zero Character	Slashed
Symbol Sets	Code Page	USA
Rear Feed	Line Spacing	6 LPI
Rear Feed	Form Tear-Off	1 sec
Rear Feed	Skip Over Perforation	No
Rear Feed	Page Length	11 "
Bottom Feed	Line Spacing	6 LPI
Bottom Feed	Form Tear-Off	Off
Bottom Feed	Skip Over Perforation	No
Bottom Feed	Page Length	11 "
Top Feed	Line Spacing	6 LPI
Top Feed	Bottom Margin	Valid
Top Feed	Page Length	11 "
Top Feed	Wait Time	1 sec
Top Feed	Page Length Control	by MENU Setting
Set-Up	Graphics	Uni-directional
Set-Up	Receive Buffer Size	8K
Set-Up	Paper Out Override	No
Set-Up	Print Registration	0
	SET	SHIFT+SET
	<----->	----->
Set-Up	Operator Panel Function	Full Operation
Set-Up	Reset Inhibit	No
Set-Up	Print Suppress Effective	Yes
Set-Up	Auto LF	No
Set-Up	Auto CR	No
Set-Up	SI Select Pitch (10CPI)	17.1 CPI
Set-Up	SI Select Pitch (12CPI)	12 CPI
Set-Up	Time Out Print	Valid
Set-Up	Auto Select	No
Set-Up	Graphics Speed	Low
Set-Up	Centering Position	DEFAULT
Set-Up	Decollator	No
Parallel I/F	I-Prime	Buffer Print
Parallel I/F	Pin 18	+5v
Printer Control	Emulation Mode	IBM PPR

Table 1, Printer Menu Selections

SETUP COMPLETE