EQUIPMENT SERVICE ON SITE

EquiServ®

*Providing Factory Service For
Automotive Service Equipment*

Installation Instructions

INSTALLATION MUST BE PERFORMED
BY
QUALIFIED EQUISERV PERSONNEL ONLY

INSTALLATION OVERVIEW:

The SIS-905 California 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 (EAK0097C00A), 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
0507-0025-01	Probe, Anti-Dilution	1
0528-1088-01	Printer Paper	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
0692-2442-01	Operators Manual (Generic)	1
0692-2453-01	SIS Generic Banner	1
0692-2469-01	QR Guide	1
0787-0035	Probe Caps	2
1-14981	Filter Element, 4 Micron	4
1-7726	Screw, 10x32 x ½", HWHTT	6
1W15081	Filter Element, 30 Micron	4
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
5-8526A1	Velcro, Loop	6"
5-8526A2	Velcro, Hook	6""
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

PART NUMBER	DESCRIPTION	QTY
6005-0181-01	Adapter Assembly, Nissan Pulsar/Quad 4	1
6005-0184-01	Adapter, Rpm, BMW	1
6005-0184-02	Adapter, Rpm, Acura	1
6-622	Cable, OBD II Communications	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 Tester	1
EAA0190L10A	Hanger, Lead	4
EAE0050L20A	Printer, LED	1
EAE0050L21A	Printer Toner Cartridge	1
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	Cable, Dyno Interface	1
EERC102A	Remote Control	1
EESP107FD	Windows 95	1
TEEEA111B	Installation Instruction	1
YA9020	Wheel Chock	1
ZEEEA111B	Operator's Manual (Specifically For California)	1

REQUIRED TOOLS: _____

- **GAS BOTTLE (0271-0062-01, 0271-0066-01)**
- **COMPLETE TOOL KIT**
- **ANTI-STATIC KIT**
- **SERVICE KEYS (from Technical Support), (215 and 225)**

INSTALLATION INSTRUCTIONS: _____

> ⚠ **WARNING!**
> USE STANDARD ANTI-STATIC PROCEDURES
> WHILE PERFORMING THESE 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 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, 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.

NOTE: *In the following step the velcro may already be placed on the keyboard.*

18. In order to mount the Velcro, turn the keyboard upside down. Peel the backing off the hook side of a 6" piece of Velcro (5-8526A2) and attach to keyboard. Attach soft side (Loop) of a 6" piece of Velcro (5-8526A1) to Velcro Hook. Remove backing, exposing adhesive and place keyboard in its proper position and press firmly.

19. Load the printer paper tray with a small amount of printer paper (0528-1088-01).

20. 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.

21. 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.*

22. 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).

23. 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).

24. Remove the Gas Cap Tester (EAA0145C00A) from its packaging.

25. Attach the RJ45 end of the Gas Cap Tester Interface Adapter Cable (EAW0166L03A) to the RJ45 connector on the Gas Cap Tester.

26. 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.

27. 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.

28. Attach the other end of the Gas Cap Tester Cable to the port labeled "**COM A2**" on the rear of the analyzer.

29. Place the following items in the storage drawer below the computer and printer section:

   - (4) 30 Micron Filter Elements (1W15081)
   - (4) 4 Micron Filter Elements (1-14981)
   - (1) Anti-Dilution Probe (0507-0025-01)
   - (1) Printer Toner Cartridge (EAE0050L21A)
   - (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)
   - (1) Remote Control (EERC102A)
   - (1) Windows 95 (EESP107FD)

30. 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.

31. 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 (58878-0016) on it. This will stop the cable from being pulled out of the Antenna Cable Connector.
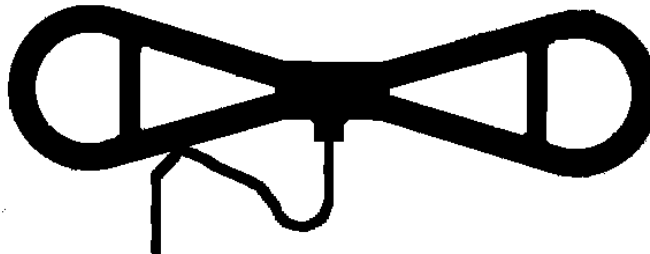

Figure 1, Antenna Cable Strain Releif

32. Connect the Trigger Pickup (7009-1929) to the Trigger Pickup Adapter Lead (6004-0262-05).

33. 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.

34. Connect the Volt/Ohm Lead (6004-0462) to the "**V / Ω**" connector on the rear of the analyzer.

35. Connect the Exhaust Hose Assembly (3988-0230-01) to the filter bowls on the rear on the analyzer.

36. Connect the Dual Exhaust Hose (3988-0231-01) to the female quick disconnect fitting on the Exhaust Hose Assembly, installed previously.

37. Following the Instructions in the Zero Air Kit (EAK0097C00A), mount the Zero Air Bottle to the Analyzer.

38. Connect an Exhaust Probe (7009-1869) to both fittings on the end of the two exhaust hoses.

39. Attach the regulators to the gas bottles (supplied locally).

40. Attach the hoses (EAA0136C0*A), with label, to a calibration tank brass fitting, and attach the other end to the rear panel calibration ports.

41. Attach one end of the OBD II Communications Cable (6-622) to the rear panel connector labeled "**COM A3**".

42. Attach the aspirator hose to the Aspiration port on the rear of the analyzer. 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.

43. Give the Product and Warranty Registration documentation to the Analyzer Owner and ensure that it is filled out and mailed.

44. Place the Service Call Label (EAL0264C00A) on the rear of the machine, in a place that is easily readable by the customer.

45. Present the SIS Banner (0692-2453-01) to the customer and offer to hang it in a central location.

46. Provide the Owner with the Operators' Manuals and QR Guide.

47. Completely fill out the Quality Control Questionnaire (0692-1834-01) and mail it according to the instructions printed on the form.

48. Power up the analyzer and wait until the analyzer boots.

49. Reference the California's Auditors Manual for installation and Setup of System Software.

NOTE: *The 1.44 Megabyte Formatted Floppy Disk (3-12926) will be used when installing software into the Service Inspection System.*

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

SETUP COMPLETE