Snap-on Sun
EQUIPMENT SERVICE

Installation Instructions

INSTALLATION MUST BE PERFORMED BY QUALIFIED SNAP-ON/SUN PERSONNEL ONLY

INSTALLATION OVERVIEW:

The Installation Instructions listed are for the SUN MACHINE 450. The unit is shipped as a fully assembled unit with the exception of the items as listed in the PARTS & ACCESSORIES LIST. To insure that the most recent release of Sun Machine 450 operating software is received, the software will be added to the unit before it is shipped to the customer.

PARTS & ACCESSORIES LIST:

PART NUMBER	DESCRIPTION	QTY
0119-0397-01	Literature Kit	1
0692-1928-01	Product Registration Form	1
0692-2123-01	Quick Reference Guide (Universal Test Lead (Secondary))	1
0692-2291-01	Warranty Registration Form	1
ZEE0S108A	Operators Manual	1
0528-1088-01	Paper, Printer	1
0692-1834-01	Quality Control Questionnaire SEL 1403C	1
0692-2448-01	Installation Instructions	1
EAA0129C00A	EDC 1/EDC 2 Calibrated Assembly	1
6004-0544-02	Test Lead Assembly, Pattern Dual Hd	1
6004-0763-02	Test Lead Assembly, Pattern Conventional	1
6004-0768-01	Pod Cable Assembly	1
6005-0171-03	Test Lead Assembly, Current Pickup	1
6005-0182-02	Test Lead Assembly, Universal	1
6006-0003	Test Lead Assembly, Vac Hose	1
7009-1374-08	Test Lead Assembly, Timing Light	1
7009-2325-02	Test Lead Assembly, Trigger Pickup	1
EAA0128C01A	EDC 1 Assembly	1
EAA0128C02A	EDC 2 Assembly	1
EAW0058C00A	Test Lead Assembly, Volt/Ohm Pinpoint	1
EAK0066C02A	Unit Accessories	1
0002-0133-15	Test Lead Assembly	1
0301-0944-01	Filter Element,75 Micron	1
0301-0945-01	Filter Element,8 Micron	1
0403-1541-08	10-32 x 1/2" Hex Screws	4
0552-0043	Adapter, Thexton Gm/Ford Coil Terminal	1
0552-0103-01	Pad, Mouse	1

PART NUMBER	DESCRIPTION	QTY
0552-0116-01	Mouse, 3 Button Black	1
0552-0120-01	Adapter, Thexton Chry/Jeep/Eagle	1
0647-0170	Tee	1
0669-0220	Hose, Poly, 1/4 Id	24"
0669-0623	Hose	1
0669-0733	Hose	1
0669-0734	Hose	1
0672-0035-01	Test Clip	1
0682-1049-01	Labels, Stickers	1
0692-2406-01	Banner	1
0787-0035	Cap	1
1747-0101	Test Adapter Assembly, Pat Pickup	1
1747-0102	Test Adapter Assembly, Hei Pickup	1
2161-0023	Hangers	4
3988-0255-01	Test Assembly, Exhaust Hose 3/16"	1
6002-0346	Test Lead Assembly	1
6002-0349	Jumper	1
6004-0544-02	DIS Pickup Assembly	1
6004-0775-02	Cable, Secondary "Y" Adapter	1
6004-0819-01	Adapter, Universal Pattern Pickup	1
6006-0003-02	Lead Assembly, Source Vac Hose	1
7009-1869-01	Test Assembly, Exhaust Probe Assembly	1
7009-2334-03	Test Lead Assembly, Mag Probe	1
7049-0004-01	Oxygen Sensor	1
7054-0062	Adapter, Chry C2 Mag	1
EAW0060C00A	Cable, Adapto	1
EERC102A	Remote Control	1

REQUIRED TOOLS: _____

- **Complete Tool Kit**

INSTALLATION INSTRUCTIONS: _____

NOTE: *Steps 1 through 6 will require two or more people.*

1. Cut and remove the straps. Carefully slide the unit carton off of the shipping pallet. Remove the top of the shipping carton.

2. Locate the Sun Machine 450 Operating Software Package. The software could be located on the outside of the carton or on the inside if there is a slot in the shipping carton. Remove the software package and set aside.

3. Remove the carton by sliding the carton over top of the unit.

4. Remove foam packing from around the sides of the unit.

5. Lean the Sun Machine 450 so that half of the foam base can be removed.

6. Lean the Sun Machine 450 so that other half of the foam base can be removed.

7. Remove tape from ALL drawers and covers.

8. Remove bubble wrap from Keyboard, located in the keyboard drawer.

9. Inventory all items using the Parts & Accessories List and inspect for damage. The Unit Accessories are located in the bottom drawer of the unit. The Literature Kit is also located in the bottom drawer of the unit.

NOTE: *Any software or hardware owners' manuals and pre-loaded software that come with the computer, such as MicrosoftÒ DOS and Windows 3.11, are located in the bottom drawer of the unit.*

NOTE: *Any REGISTRATION CARDS for the installed software such as MicrosoftÒ DOS, MicrosoftÒ Windows must be filled out and sent in by the customer to ensure compliance with any software licensing agreements.*

10. Locate the four hangers (2161-0023) and the four 10-32 x 1/2" Hex Screws (0403-1541-08). Attach two hangers to the left side and two to the right side of the unit using the hex screws.

11. The Monitor and Monitor Base Kit are shipped separately from the unit. Follow the Installation Instruction found in the Monitor Base Kit to install the Monitor.

12. Discard the A.C. Cable supplied with the Monitor. Use the A.C. Cable found attached to the top of the unit.

13. Locate the Mouse and install the Mouse cable end to COM 2: connector of the connector plate on the left side of the unit.

14. Locate the printer paper (0528-1088-01) in the bottom storage drawer. Load printer paper into paper cassette of the Printer (100 Sheets maximum). A portion of the remaining paper can be placed under the Printer.

15. There are two choices for EDC POD placement on the Sun Machine 450. The first choice is the EDC Pod holder kit; the second is a Boom kit. These kits are shipped separately from the unit. Locate the kit that was shipped with your unit and follow the installation instructions supplied with the kit. Once the kit is installed, proceed to the next step.

16. Connect all Test Leads and the Vacuum Hose to the respective connectors located on the EDC PODs of the Sun Machine 450. Store any unused leads and accessories in the lower storage drawer.

17. Locate the Oxygen Sensor (7049-0004-01) in the accessories bag. Remove the back panel of the tester. Install the Oxygen Sensor into the block and connect the wiring harness to the top of the sensor.

18. Get the Sun Machine 450 software package that was set aside in step 2. Using the installation instructions provided in the software package, install the CD ROM Software into the Sun Machine 450.

19. When installing the software you will be prompted to call SUN PARTS DEPARTMENT for a validation code. Once the code has been entered, proceed through the set up screens until you get the choices of Express Setup or Custom Set up. Enter Custom Setup and from the custom setup screen select the following:

        Install Sun Machine software
        Install Oki OL600 DOS Control Panel

and press ¬ .

20. Follow the screen prompts to complete the software loading. Refer to the Sun Machine 500 Service Manual Chapter 5 for proper printer setup through the control panel.

NOTE: *Do Not load the Okadata OL600e Windows drivers from the Software Support Disks. Set up Windows using the HP-IIP printer driver for this printer.*

21. Complete the Field Quality Control Questionnaire SEL 1403C (0692-1834-01) and follow the instructions on the form for mailing.

22. Insert these Installation Instructions in the rear of the Sun Machine 450 Service Manual when one becomes available for future reference.

NOTE: *This tester is equipped with a 4-gas analyzer: see the Emissions Chapter of the Sun Machine 500 Service Manual for the calibration and checkout.*

$$\boxed{\textbf{INSTALLATION COMPLETE}}$$

NOTE: *There are several upgrade kits that are available for the Sun Machine 450. Before installing any of these kits verify the proper operation of the unit. Install the kits one at a time verifying proper operation of the unit and upgrade prior to installing the next upgrade kit.*