



SUN ELECTRIC CORPORATION

Model: MCS-2500
UNIT SETUP

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Installation Instructions

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

INSTALLATION OVERVIEW: _____

The Installation Instructions listed are for the various versions of the **MCS-2500**. The unit is shipped as a fully assembled unit with the exception of the items as listed in the Parts List.

PARTS & ACCESSORIES LIST FOR: _____

PART NUMBER	DESCRIPTION	-0-0 -0-3	-1-0	-2-0	-2-3	-3-0	-4-0	-7-0
0119-0355-01	Literature Kit	1	1	1	1	1	1	1
0301-0944-01	Filter Element, 75 microns	-	-	-	1	-	1	1
0301-0945-01	Filter Element, 8 microns	-	-	-	1	-	1	1
0507-0025-01	Probe Assembly	-	-	-	1	-	1	1
0552-0948-01	Disk Caddy	-	-	-	1	1	1	1
0552-0959-01	Document Booklet	-	-	-	1	1	1	1
0552-0996F01	VIP 2.1 Software	1	1	1	1	1	1	1
0647-0170	Tee	-	-	-	1	1	1	1
0669-0220	Hose, Poly, 1/4" diameter	-	-	-	1.67ft	-	1.67ft	1.67ft
0669-0623	Hose, 1/8 x 5/16 x 6	-	-	-	1	1	1	1
0669-0733	Hose, 3/16 x 5/16 x 6	-	-	-	1	1	1	1
0669-0734	Hose, 1/4 x 7/16 x 6	-	-	-	1	1	1	1
0692-1834-01	SEL 1403C Questionnaire	1	1	1	1	1	1	1
0692-2215-01	Installation Instructions	1	1	1	1	1	1	1
0718-0103	Cable Clamp	-	-	-	-	1	1	1
0787-0035	Cap	-	-	-	1	-	1	1
1091-0303-01	Boom Kit	-	1	1	1	1	1	1
3988-0255-01	Exhaust Hose Assembly	-	-	-	1	-	1	1
6002-0346	Lead Assembly	-	-	-	1	1	1	1
6002-0349	Jumper	-	-	-	1	1	1	1
6004-0606-01	Cable , Phone Line	-	-	-	-	1	1	1
6006-0003-02	Vacuum Hose	-	-	-	1	1	1	1
7009-1921-03	Remote Assembly	-	-	-	1	1	1	1
7009-1869-01	Exhaust Probe Assembly	-	-	-	1	-	1	1

NOTE: MCS-2500-O-0, MCS-2500-O-3 do not have either VIP option installed. MCS-2500-1-0 has only the VIP-1 option installed. All other **MCS-2500** units have both options installed. (Refer to the appropriate column below:)

PART NUMBER	DESCRIPTION	-0-0 -0-3	-1-0	-2-0	-2-3	-3-0	-4-0	-7-0
0552-0043	Adapter	-	1	1	1	1	1	1
0552-0044	Adapter	-	1	1	1	1	1	1
0552-0045	Adapter	-	1	1	1	1	1	1
0647-0170	Tee	-	-	1	1	1	1	1
0669-0623	Hose, 1/8 x 5/16 x 6	-	-	1	1	1	1	1
0669-0733	Hose, 3/16 x 5/16 x 6	-	-	1	1	1	1	1
0669-0734	Hose, 1/4 x 7/16 x 6	-	-	1	1	1	1	1
0682-1034-01	Label, keyboard	-	1	1	1	1	1	1
0692-1834-01	Questionnaire, SEL 1403C	-	1	1	1	1	1	1
0692-2073-01	Installation Instructions for VIP-1-10	-	1	1	1	1	1	1
0692-2074-01	Installation Instructions for VIP-2-10	-	-	1	1	1	1	1
1747-0101	Pattern Pickup, Chrome	-	1	1	1	1	1	1
1747-0102	HEI Pickup	-	1	1	1	1	1	1
6004-0407	Test Lead, Low Temperature	-	-	1	1	1	1	1
6004-0462	Volt/Ohm Test Lead, Pink	-	1	1	1	1	1	1
6004-0544-02	Pattern, Dual, Assembly, Black	-	1	1	1	1	1	1
6004-0763-02	Pattern Lead Conventional, Blue	-	1	1	1	1	1	1
6004-0768-01	Cable Assembly, POD	-	1	1	1	1	1	1
6004-0813-01	Cbl Assy, W45, VIP-2, Interconnect	-	-	1	1	1	1	1
6005-0171	Current Pickup	-	-	1	1	1	1	1
6005-0182-02	Universal Test Lead Assembly	-	1	1	1	1	1	1
6006-0003	Vacuum Hose	-	-	1	1	1	1	1
7009-1374-03	Timing Light Assembly	-	-	1	1	1	1	1
7009-2325-02	Trigger Pickup and Lead Assy, Red	-	1	1	1	1	1	1
7009-2334-01	Mag Probe, Test Lead	-	-	1	1	1	1	1
7009-2376-01	POD 1 Assembly	-	1	1	1	1	1	1
7009-2377-01	POD 2 Assembly	-	-	1	1	1	1	1
7054-0056	Adapter, Ford F1 Mag	-	-	1	1	1	1	1
7054-0057	Adapter, Early Chrysler C1 Mag	-	-	1	1	1	1	1
7054-0060	Adapter, Ford F2 Mag	-	-	1	1	1	1	1
7054-0062	Adapter, Chrysler C2 Mag	-	-	1	1	1	1	1

REQUIRED TOOLS: _____

- Complete Tool Kit
- Anti-Static Kit

INSTALLATION INSTRUCTIONS: _____



NOTE: If a step indicates that *it* is for a particular option and that option is not available for the unit being set up, 'disregard the step and go on.'

1. Cut Straps and remove top of the carton.



WARNING!

BEFORE REMOVING ANY PACKING MATERIAL, REMOVE THE VIP ASSEMBLIES FROM THE FOAM PACKING ADJACENT TO THE MONITOR IN THE TOP OF THE CARTON.

2. After removing the VIP assemblies from the foam packing, remove the carton sides and the top foam packing.
3. If there is no foam collar around the base of the monitor, there will be a two piece cardboard collar in the packing carton. Insert this collar under and around the base of the monitor to support it during the uncrating process.
4. Slide the MCS-2500 and carton base off the pallet. Split the corners of the base carton.
5. Lean the **MCS-2500** so that one half of the foam base can be removed.
6. Lean the **MCS-2500** so the other half of the foam base can be removed.
7. Remove the two piece cardboard or foam collar from around the base of the monitor. It is recommended that this packing be retained in case the unit has to be transported at a later date.
8. Open the computer door and remove the cardboard inserted behind it.
9. Open the keyboard drawer and remove the bubble wrap taped to the keyboard.
10. Cut the tie wrap securing the mouse to the floor of the keyboard drawer.
11. Pull the printer drawer out and cut the tie wrap holding the bubble wrap. Remove the bubble wrap.
12. Lift the Printer Cover and cut the tie wrap holding the Print Head securely.
13. Inventory all items using the appropriate column in the Parts and Accessories Lists and inspect for damage. The **parts** are located in the accessories bag in the bottom drawer of the unit.
14. Clean the keyboard surface to remove dirt and dust. Peel the backing off the Keyboard Label (0682-1 109-01) and place the label around the Function keys as shown in Figure 1.

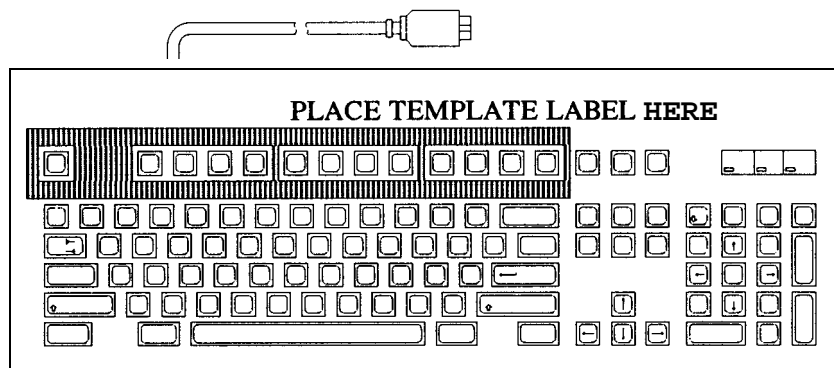


Figure 1 Keyboard Label

13. Install the Boom Kit (1091-0303-01) following the instructions enclosed in the Boom Kit box.
14. Connect **J11** of Cable Assembly W45 (6004-081 3-01) to **P11** of VIP-2.
15. Connect J317 of Cable Assembly W45 (6004-0813-01) to P317 of VI P-1
16. Install the VIP modules by hooking them onto the end of the boom in the slot provided.

17. If the modem is installed, place the clamp (0718-0103) around the telephone cable (6004-0606-01). Mount the clamp with a screw from the connector mounting plate. Position the cable so if disconnected from the unit it will not hang closer than 18" from the floor. (See Service Bulletin #663)
18. Connect the female end of the POD Cable Assembly (6004-0768-01) to the **CS** Interface connector on the VIP 1 Module.
19. Connect the Universal Test Lead Assembly (6005-01 82-02) to the Universal Connector on the VIP 1 Module.
20. Connect the Trigger Pickup and Lead Assembly (7009-2325-02) to the Trigger Connector on the VIP 1 Module.
21. Connect the Conventional, Blue Pattern Lead (6004-0763-02) to the Secondary Connector on the VIP 1 Module.
22. Connect the Volt/Ohm Test Lead (6004-0462) to the Volt/Ohm Connector on the VIP 1 Module.
23. Connect the Timing Light Assembly (7009-1 374-03) to the Timing Connector on the VIP 2 Module.
24. Connect the Vacuum Hose (6006-0003) to the vacuum port on the VIP 2 Module.
25. Connect the Low Temperature Test Lead (6004-0407) to the Temperature Connector on the VIP-2 Module.
26. Connect the Amp Probe Assembly (6005-01 71) to the Amps Connector of the VIP 2 Module.
27. Connect the Remote Control Assembly (7009-1 921-03) to the Remote Connector on the Connector Bracket on the rear of the unit.
28. Turn on the unit by flipping the switch on the Power Strip on the rear of the tester. Software is already loaded and the Tester will run up to the SUN logo screen.
29. NOTE: If the Tester is equipped with the 4-gas option, see the Emissions Chapter of the MCS-2500 Manual for the calibration and checkout.
30. Complete the Field Quality Control Questionnaire SEL 1403C (0692-1834-01) and follow the instructions on the form for mailing.

* **INSTALLATION COMPLETE** *

PLACE THESE **INSTALLATION** INSTRUCTIONS IN THE SERVICE MANUAL FOR THE MCS-2500