



SUN ELECTRIC CORPORATION

Model: VIP 2-5, VIP 2-10 KIT  
For MCS-2500, MCS-4000,  
MGA-9000, and ETB.

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# Field Installation Instructions

INSTALLATION MUST BE PERFORMED BY QUALIFIED SUN SERVICE PERSONNEL ONLY

## INSTALLATION OVERVIEW:

This kit is for the installation of the VIP-2 for the **MCS-2500, MCS-4000**, MGA-9000, and the ETB. The kit includes all the parts necessary to correctly install the VIP 2 into the tester.

## PREREQUISITE:

All of these units require a VIP-1 kit first.

## PARTS LIST:

PART NUMBER	DESCRIPTION	-5 QTY	-10 QTY
0403-1211-04	SCREW, 4-40 X 1/4	4	4
0647-0170	TEE	1	1
0669-0623	HOSE, 1/8 X 5/16X6	1	1
0669-0733	HOSE, 3/16 X 5/16X 6	1	1
0669-0734	HOSE, 1/4 X 7/16X 6	1	1
0692-1834-01	SEL <b>1403C</b> , QUESTIONNAIRE	1	1
0692-2074-01	INSTALLATION INSTRUCTIONS	1	1
6004-0407	TEST LEAD, LOW TEMPERATURE 10ft		1
6004-0407-02	TEST LEAD, LOW TEMPERATURE 5ft	1	-
6004-0813-01	CABLE ASSEMBLY, INTERCONNECTION	1	1
6005-0171	CURRENT PICK-UP <b>10ft</b>		1
6005-0171-01	CURRENT PICK-UP 5ft	1	
6006-0003	VACUUM HOSE 10ft		1
6006-0003-01	VACUUM HOSE 5ft	1	
7009-1374-03	TIMING LIGHT ASSEMBLY 10ft		1
7009-1374-04	TIMING LIGHT ASSEMBLY 5ft	1	-
7009-2334-01	MAG PROBE, TEST LEAD 10ft		1
7009-2334-02	MAG PROBE, TEST LEAD 5ft	1	-
7009-2377-01	VIP 2 ASSEMBLY	1	1
7054-0056	ADAPTER, FORD <b>F1</b> MAG	1	1
7054-0057	ADAPTER, EARLY CHRYSLER CI MAG	1	1
7054-0060	ADAPTER, FORD <b>F2</b> MAG	1	1
7054-0062	ADAPTER, CHRYSLER CI MAG	1	1

**REQUIRED TOOLS:** \_\_\_\_\_

COMPLETE SUN ISSUED TOOL KIT  
ANTI-STATIC KIT

**INSTALLATION INSTRUCTIONS:** \_\_\_\_\_

NOTE: USE STANDARD ANTI-STATIC PROCEDURES WHILE PERFORMING THIS PROCEDURE.

1. After performing the initial checkout and any necessary repairs, switch off the tester and disconnect it from the power source.
2. Set the VIP 2 assembly (7009-2298-01) on top of the VIP 1 and ensure that the four fasteners on the bottom of VIP 2 are fully seated in the four holes in the top of VIP 1.
3. Connect the ribbon cable (6004-081 3-01) between VIP 1 and VIP 2 using the 4 screws (0403-121 1-04).
4. Connect the vacuum hose (6006-0003--) to the vacuum connector on the rear of VIP 2.
5. Install the tee (0647-01 79) in the end of the vacuum hose.
6. Connect the current pickup (6005-0171 --) to the amp connector on the rear of VIP 2.
7. Connect the low temperature test lead (6004-0407-\*\*) to the temp connector on the rear of VIP 2.
8. Connect the timing light assembly (7009-1 374-\*\*) to the timing light connector on the rear of VIP 2.
9. Place the remainder of the adapters, hoses, and test leads in the storage drawer.

\*\* The dash number of the leads depends on the dash number of the kit being installed. See the parts list on page one for dash numbers.

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**•INSTALLATION COMPLETE •**  
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**CHECKOUT PROCEDURE:** \_\_\_\_\_

1. Connect tester to AC power and turn it on.
2. Select **#1** from the menu to select **VIP Engine Analyzer**.
3. From the **"VIP SYSTEM"** page, select **"CONTINUE"**.
4. Select **#6 Utils**, then **#7 Options**.
5. Select the button for **"VIP 2 Installed"**.
6. Select **"CONTINUE"**.
7. Select **#5 STATUS**, then **#1 CALIBRATION**.
8. Verify that all VIP 2 parameters read green for calibrated.

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 \* CHECKOUT COMPLETE \*  
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