



SUN ELECTRIC CORPORATION

Model: SUN MRC-300

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## Field Installation Instructions

INSTALLATION MUST BE PERFORMED BY QUALIFIED SUN SERVICE PERSONNEL ONLY

### INSTALLATION OVERVIEW:

The Installation Procedures listed are for the SUN MRC-300. The unit is shipped as a fully assembled unit, with the exception of the items as listed in the Parts List.

### PARTS LIST:

DESCRIPTION	PART NUMBER	QUANTITY
Literature Kit, MRC-300	0119-0319-01	1
GM Adapter	0647-0196-01	1
GM/Ford Adapter, Quick-Disconnect	0647-0197-01	1
90-Degree Adapter	0647-0198-01	1
Large GM Adapter, Quick-Disconnect	0647-0199-01	1
Ford Adapter	0647-0200-01	1
Tool Pouch	0671-1012-01	1
Desiccant Bag	0671-1018-01	10
Installation Instructions	0692-1901-01	1
cap Plug	1374-0111-01	6
Yellow Charge Hose Assembly	3988-0232-01	1
Red Hose Assembly, 96"	3988-0233-01	1
Blue Hose Assembly, 96"	3988-0234-01	1
Red Hose Assembly, with Hand Valve	3988-0235-01	1
Blue Hose Assembly with Hard Valve	3988-0236-01	1
Tank Power Cable Assembly	6004-0668-01	1
Gauge Set Assembly w/o Hoses	7009-2082-01	1
Reclaim Tank Assembly	7009-2083-01	1

### REQUIRED TOOLS:

Complete Sun Issued Tool Kit  
Safety Goggles (0001-5005)

**INSTALLATION:**

**USE STANDARD REFRIGERANT HANDLING SAFETY PROCEDURES  
WHEN PERFORMING THIS PROCEDURE**

**GAUGE SET ASSEMBLY**

1. Open the container and remove the unit and all accessories from the shipping container.
2. Inventory all items using the parts list and inspect for damage.
3. Attach the **YELLOW** Charge Hose Assembly (3988-0232-01) to the middle connector on the Gauge Set Assembly (7009-2082-01) .
4. Attach the opposite end of the **YELLOW** Charge Hose Assembly to the Intake Port on the back of the unit.
5. Attach the **BLUE** Hose Assembly (3988-0234-01) to the low pressure side of the Gauge Set Assembly (**BLUE** handle side).
6. Attach the **RED** Hose Assembly (3988-0233-01) to the high pressure side of the Gauge Set Assembly (**RED** handle side) .
7. Attach the **BLUE** Hose Assembly with Hand Valve (3988-0236-01) to the **BLUE** Hose Assembly.
8. Attach the **RED** Hose Assembly with Hand Valve (3988-0235-01) to the **RED** Hose Assembly.

**NOTE:** *The hoses that are supplied with the Hand Valves have an angled fitting with a Schrader Valve depressor on one end, and a straight fitting with no depressor on the other end. The straight fittings on the hoses are attached to the Hand Valve and the fitting with the depressor will attach to the Vehicle that is to be serviced.*

**RECLAIM TANK**

9. Remove the Reclaim Tank Assembly (7009-2083-01) from the packing container.
10. Open the **LIQUID** Valve on the Tank Assembly to relieve any pressure that may be left in the tank.
11. Secure the Reclaim Tank Assembly on the bottom shelf by using the velcro strap .
12. Connect the **BLUE** Hose Assembly that is attached to the Gauge Set Assembly to the port marked **LIQUID**.
13. Ensure that the **VAPOR** Valve is closed.
14. Ensure that the **LIQUID** Valve is open.
15. Open the **Hand** Valve on the **BLUE** Hose Assembly.

16. Open the BLUE Valve on the Gauge Set Assembly.
17. Close the RED Valve on the Gauge Set Assembly.
18. Ensure that the RED Hand Valve is closed.

**NOTE:** Ensure all unit switches are in the OFF position.

19. Plug in the unit to a grounded AC receptacle.
20. Turn the Power Switch to "ON".
21. Place the RECLAIM/VACUUM switch to the "VACUUM" position.
22. Allow the unit to run until the low pressure gauge reads a vacuum Of 24" to 29" for fifteen (15) minutes.
23. Turn all switches to the "OFF" position.
24. Close hand valve on the end of the BLUE Hose, then close the LIQUID valve on the Reclaim Tank.
25. Disconnect the BLUE Hose from the tank.

#### **FINAL ASSEMBLY**

26. Attach the BLUE Hose that extends through the left leg of the unit to the LIQUID Port on the Reclaim Tank Assembly.
27. Attach the RED Hose from the Left Leg Vapor Port to the VAPOR Port on the Reclaim Tank Assembly.
28. Open both Tank Valves.
29. Place Tool Pouch (0671-1012-01) over the handle and secure with velcro.
30. Store all accessories in the tool pouch.
31. Complete the questionnaire (0692-1834-01) .

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 ● **INSTALLATION COMPLETE \***  
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#### **CHECKOUT PROCEDURE:**

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Refer to Operator's Manual in the Literature Kit (0119-0319-01)  
 for Checkout and Customer Training procedures.

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 \* **CHECKOUT COMPLETE \***  
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