



**SUN ELECTRIC**

**Model:** SUN KOOL KARE  
R-12/R-134a  
UNIT SETUP

**Page:** 1 of 5

# Installation Instructions

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

## INSTALLATION OVERVIEW: \_\_\_\_\_

The Installation Procedures listed are for the SUN KOOL KARE units (EEAC101A for R-12 & EEAC104A for R-134a). The unit is shipped as a fully assembled unit, with the exception of the items listed in the Parts & Accessories List per tester.

**PLEASE READ THESE INSTRUCTIONS COMPLETELY BEFORE SETTING UP UNIT**



## CAUTION!

**THIS UNIT MUST BE PLUGGED INTO A PROPER AC OUTLET FOR UNIT TO OPERATE CORRECTLY. REFER TO THE UNIT ID PLATE LOCATED ON BACK OF UNIT. EXTENSION CORDS ARE NOT RECOMMENDED, BUT IF AN EXTENSION CORD MUST BE USED, USE A CORD THAT IS LESS THAN 50 FEET WITH A 16 AWG, OR ABOVE 50 FEET AND LESS THAN 100 FEET WITH A 14 AWG.**



## WARNING!

**USE STANDARD REFRIGERANT HANDLING  
SAFETY PROCEDURES WHEN PERFORMING INSTALLATION**

**ALWAYS WEAR SAFETY GOGGLES, DON'T SPILL OR TOUCH LIQUID REFRIGERANT, AVOID FLAMES, AND EXCESSIVE HEAT. USE ONLY IN WELL VENTILATED AREA.**

**PARTS & ACCESSORIES LIST FOR EEAC101A:** \_\_\_\_\_

| PART NUMBER | DESCRIPTION                         | QTY |
|-------------|-------------------------------------|-----|
| 0001006701  | Wrench, Separator Bowl              | 1   |
| 0119038601  | Literature Kit                      | 1   |
| 0647019601  | Adapter, GM                         | 1   |
| 0647019701  | Adapter, Quick-Disconnect, GM/Ford  | 1   |
| 0647019901  | Adapter, Quick-Disconnect, Large GM | 1   |
| 0647020001  | Adapter, Ford                       | 1   |
| 0692183401  | Questionnaire, SEL 1403C            | 1   |
| 0692239801  | Installation instructions           | 1   |
| 0692239301  | Video Tape                          | 1   |
| 4211000101  | Envelope                            | 1   |
| 7009244703  | Recovery Tank Assembly              | 1   |
| EAH0013C00A | Gauge Set, Uniweld                  | 1   |

**PARTS & ACCESSORIES LIST FOR EEAC104A:** \_\_\_\_\_

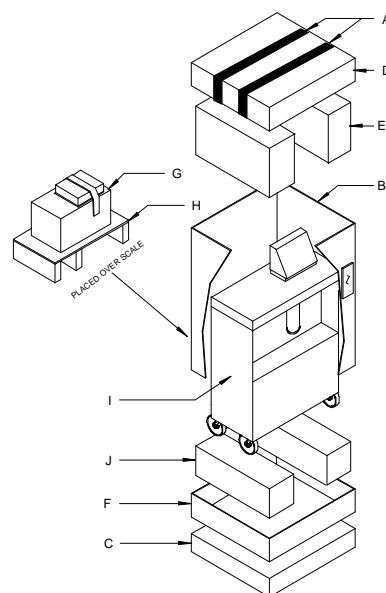
| PART NUMBER | DESCRIPTION                 | QTY |
|-------------|-----------------------------|-----|
| 0001006701  | Wrench, Separator Bowl      | 1   |
| 0119038601  | Literature Kit              | 1   |
| 0647028709  | Adapter, Vehicle, High Side | 1   |
| 0647028710  | Adapter, Vehicle, Low Side  | 1   |
| 0692183401  | Questionnaire, SEL 1403C    | 1   |
| 0692239801  | Installation Instructions   | 1   |
| 0692239301  | Video Tape                  | 1   |
| 4211000101  | Envelope                    | 1   |
| 7009244701  | Recovery Tank Assembly      | 1   |
| ARG04040    | Kit, Vehicle Adapter O-Ring | 1   |
| EAH0014C01A | Gauge Set, R134a            | 1   |

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

- 🔧 **Screwdriver (Flat Blade and Phillips)**
- 🔧 **Safety Goggles (0001-5005)**
- 🔧 **Refrigerant Oil (Mineral) or Superlube (0681-0193-02 or -03)**

**UNPACKING UNIT AND ACCESSORIES:** \_\_\_\_\_

1. Cut Straps (A), and slide the carton (B) off the pallet (C).
2. Remove the top of the carton (D), and packing foam (E) from unit. Split the corners of the base carton (F).
3. Remove all boxes (G) and packing material (H) from scale/tank compartment.
4. Lean the unit (I) so it can be rolled off the base carton (F).
5. Lean one side of unit (I) so packing foam (J) can be removed. Repeat for other side.
6. Inventory all items using the Parts & Accessories list and inspect for damage.

**FIGURE 1 UNIT PACKAGE**

**PARTS & ACCESSORIES SETUP:** \_\_\_\_\_

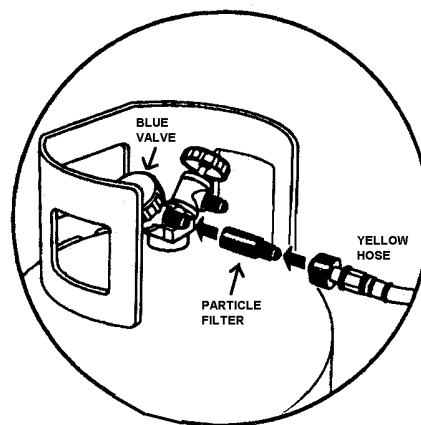
1. Remove the Gauge Set Assembly (EAH0013C00A or EAC0014C01A) from the gauge set box and place on gauge set bracket.
2. Remove the Blue and Red Hoses from the gauge set box and **OIL** the seals on each end.
3. Connect the open end of the Blue and Red Hoses to the Gauge Set respectively.
4. For the EEAC101A, place the four adapters in the Storage Compartment.
5. For the EEAC104A, connect the Red and Blue adapters (0647028709 and 0647028710) to the Red and Blue Hoses from the Gauge Set respectively.
6. For the EEAC104A, place the O-Ring Kit (ARG04040) in the Storage Compartment.
7. Place the Separator Bowl Wrench (0001006701) in the Storage Compartment.
8. Remove the User's Manual from the Literature Kit, and place the remainder of the Literature Kit (0119038601) in the Storage Compartment.

**BE SURE TO REVIEW THE USER'S MANUAL WITH THE CUSTOMER DURING TRAINING. Then before installing the User's Manual Envelope, ask where the customer would like the envelope installed. There is also a Video Tape (0692239301) supplied and can be viewed at the customer's convenience.**

9. Peel the backing from the User's Manual Envelope (4211000101) and apply the envelope, with the open end on top, to either side of the unit, or in the location designated by the customer.
10. Place the User's Manual in the Envelope.
11. Remove Recovery Tank (7009244701 or 7009244703) from it's box. Remove cardboard wrap from Recovery Tank. Set on floor in front of unit.

**PREPARING NEW RECOVERY TANK:** \_\_\_\_\_

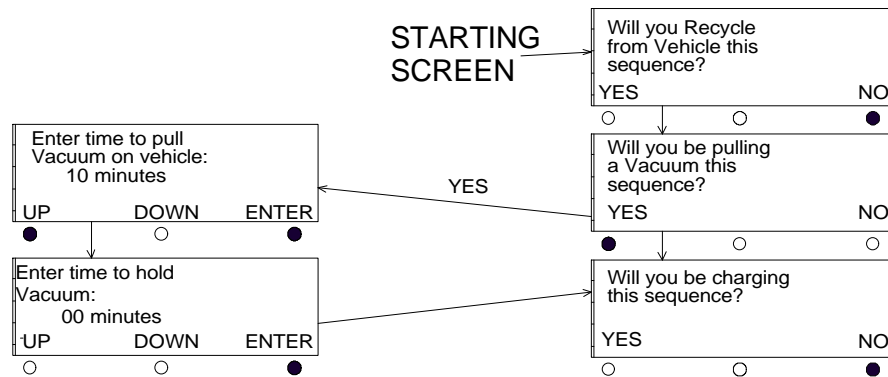
1. Referring to FIGURE 2, open the **BLUE** valve on Recovery Tank to release ALL COMPRESSED AIR.
2. Remove the Particle Filter from the Recovery Tank. **OIL** seal, and re-attach to Recovery Tank. (**BLUE SIDE**)
3. Remove the Yellow Hose from the gauge set box. **OIL** the seals on each end of hose.
4. Attach open end of Yellow Hose to **BLUE** valve of Recovery Tank. Attach other end of Yellow Hose to service port on front of unit. Open ball valve on yellow hose.
5. Plug AC Cord to a 115VAC outlet. Turn unit on using the front power switch.

**FIGURE 2 RECOVERY TANK****CAUTION!**

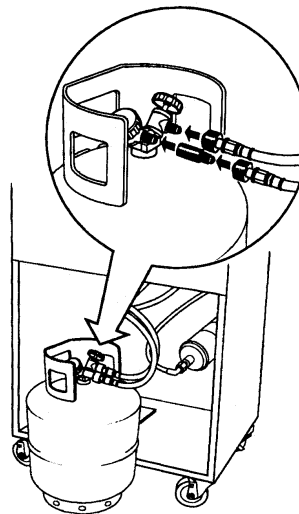
**THIS UNIT MUST BE PLUGGED IN TO A PROPER AC OUTLET FOR UNIT TO OPERATE CORRECTLY. REFER TO UNIT ID PLATE LOCATED ON BACK OF UNIT. EXTENSION CORDS ARE NOT RECOMMENDED, BUT IF AN EXTENSION CORD MUST BE USED, USE A CORD THAT IS LESS THAN 50 FEET WITH A 16 AWG, OR ABOVE 50 FEET AND LESS THAN 100 FEET WITH A 14 AWG.**

**PREPARING NEW RECOVERY TANK continued:**

6. Following the displays in FIGURE 3, to program a 10 minute vacuum time.

**FIGURE 3 VACUUM MODE**

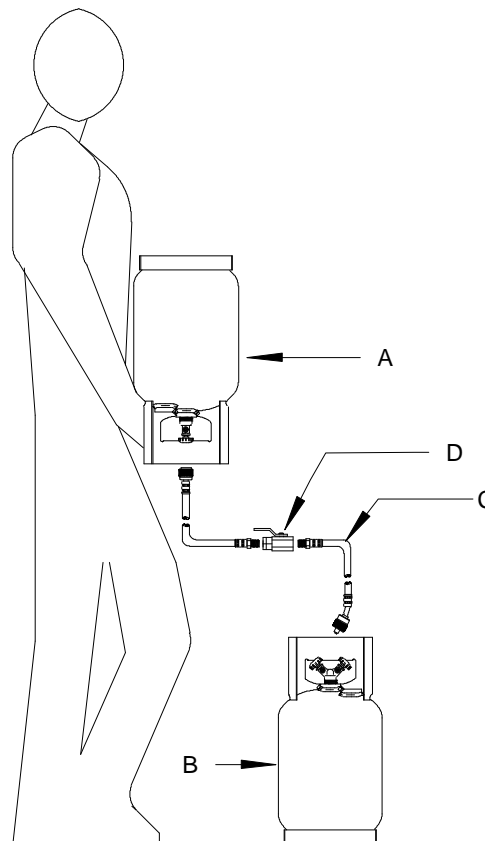
7. Once completed, close Recovery Tank valve (**BLUE**) and remove Yellow Hose from Recovery Tank.
8. **Re-OIL** seal on Yellow Hose and connect to center port on Gauge Set.
9. Place Recovery Tank on scale. Tank fittings should face straight out the back of unit. Connect velcro strap and tighten belt.
10. Remove bubble wrap from Red and Blue Hoses on unit
11. **OIL** seals on the anti-blow back valves on Red and Blue Hoses from unit. Connect respectively to Recovery Tank. Refer to FIGURE 4

**FIGURE 4 INSTALLING TANK**

**CHARGING RECOVERY TANK:**

**NOTE: THIS PROCEDURE IS USED TO SETUP THE UNIT FOR CHARGING. RECOVERY TANK SHOULD HAVE AT LEAST A 25" VACUUM. THIS PROCEDURE IS DONE WHEN RECOVERY TANK IS ON THE SCALE**

1. Be sure Recovery Tank valves (B) are closed. Refer to FIGURE 5
2. Disconnect the Red and Blue hoses from the Recovery Tank.
3. Disconnect and **Re-Oil** both the seals on Yellow hose (C). Connect the long side of the Yellow Hose to the Virgin Tank.
4. Connect the short side of the Yellow Hose to the Red Valve on the Recovery Tank (B).
5. Open the Red Valve on the Recovery Tank.
6. Invert the Virgin Tank (A) and open valve. Open Hand Valve (D) on the Yellow Hose to allow the refrigerant to flow.
7. Raise the Virgin Tank to a higher level than the Recovery Tank. Gravity and vacuum will transfer the liquid refrigerant to the Recovery Tank faster than reclaiming it.
8. Press **<AMOUNT>** to display the amount of refrigerant that has been transferred.
9. After the desired amount of refrigerant has been transferred, close valves on Virgin Tank and Recovery Tank. Set Virgin Tank on ground upright.
10. Close Hand Valve on Yellow Hose. Disconnect Yellow Hose from Recovery Tank.

**FIGURE 5 CHARGING TANK**

11. **Re-Oil** seals on anti-blow back valves on Red and Blue Hoses from unit and connect to Recovery Tank. Open Recovery Tank valves.
12. **Re-Oil** seal on Yellow Hose and connect to service port on front of unit. Open Hand Valve on Yellow Hose.
13. Following the displays in FIGURE 6, perform a recover mode. This will reclaim the refrigerant from the hose. (Optional: Opening Virgin Tank valve will reclaim rest of refrigerant.)
14. Once complete, disconnect Yellow Hose from Virgin Tank.
15. **Re-Oil** seals on Yellow Hose and connect to center port on Gauge Set.

**STARTING SCREEN**

|  |                                     |
|--|-------------------------------------|
| Will you Recycle from Vehicle this sequence? |                                     |
| YES <input checked="" type="radio"/>         | NO <input type="radio"/>            |
| Will you be pulling a Vacuum this sequence?  |                                     |
| YES <input type="radio"/>                    | NO <input checked="" type="radio"/> |
| Will you be charging this sequence?          |                                     |
| YES <input type="radio"/>                    | NO <input checked="" type="radio"/> |

**FIGURE 6 RECOVER MODE**

**REMEMBER TO OIL O-RINGS  
AND SEALS WHEN ATTACHING  
HOSES OR FITTINGS**

**INSTALLATION COMPLETE/SETUP COMPLETE**