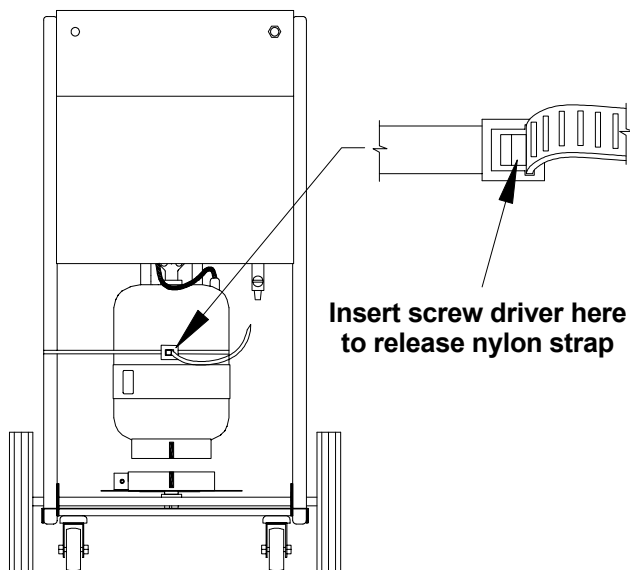


Unpacking - RHS680

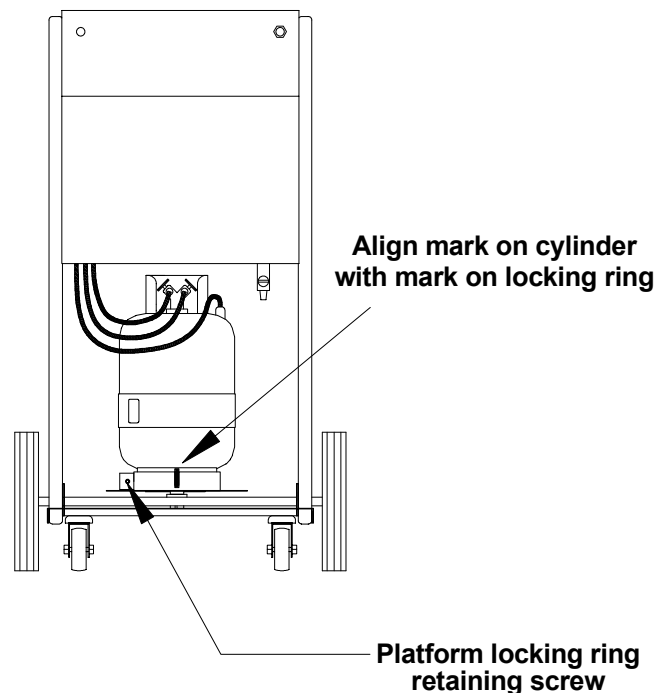
Thank you for opening the envelope and reading this documentation. Your new RHS680 was carefully assembled and will begin generating profits for you in just a few minutes.

1. Please follow these simple instructions to ensure your new machine survived any rough handling it may have experienced during transport.
2. Immediately report any visible damage to the unit. Save the shipping carton for inspection by a claims adjuster. Call RTI Technologies at 800-468-2321 (ext 259) for instructions.
3. Cut and remove all hold-down straps.
4. Remove protective plastic cover.
5. Carefully tip unit and remove cardboard blocks from underneath.
6. GENTLY ease the unit off the pallet.
7. Release nylon tie and lower cylinder onto the weight platform. Align the mark on the cylinder with the mark on the locking ring. Tighten the retaining screw on the platform locking ring.

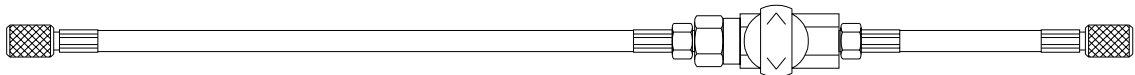
Cylinder raised in shipping position



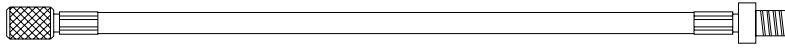
Cylinder lowered on weight scale



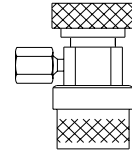
Refer to the illustration below and verify that all accessories were received.



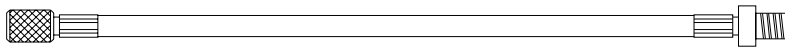
Yellow Hose (8 feet)
360-80166-00



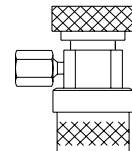
Red Hose (6 feet)
028-80035-01



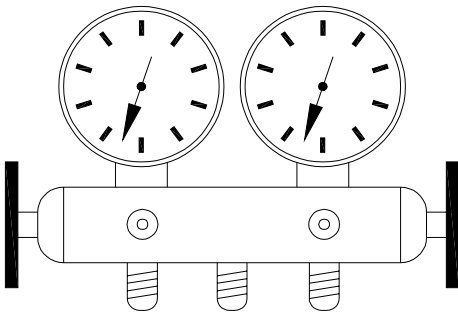
Red - High Side
Field Service Coupler
023-80095-00



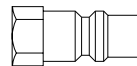
Blue Hose (6 feet)
028-80036-01



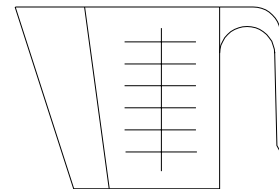
Blue - Low Side
Field Service Coupler
023-80096-00



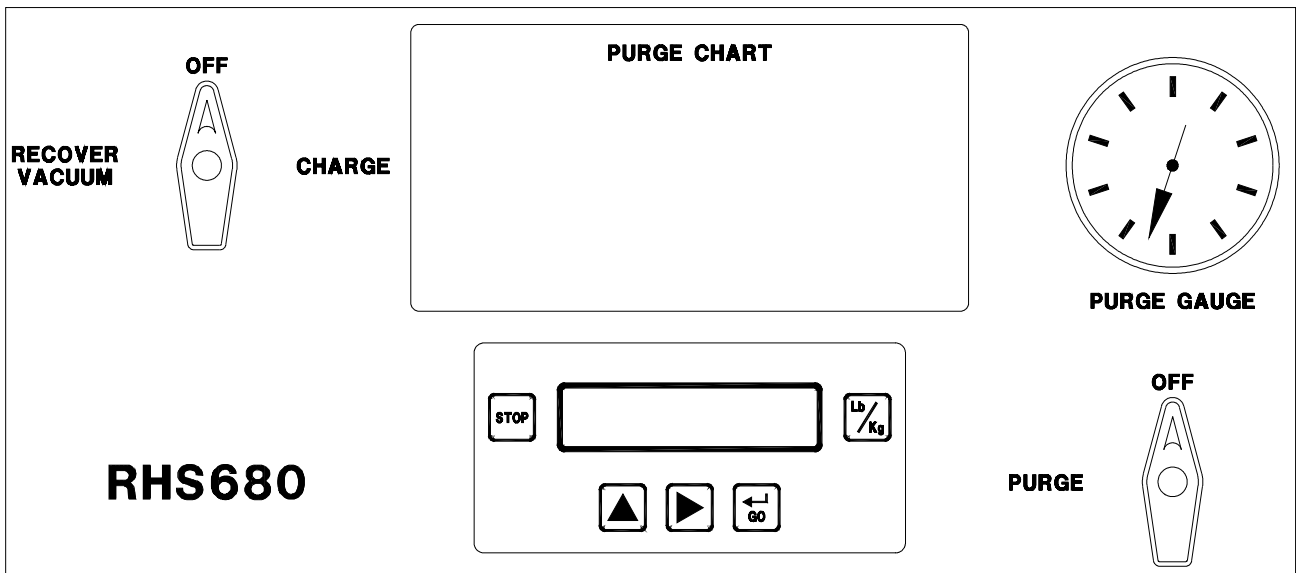
Gauge Manifold
026-80059-00



FSC to ACME
Adapter
023-80147-00



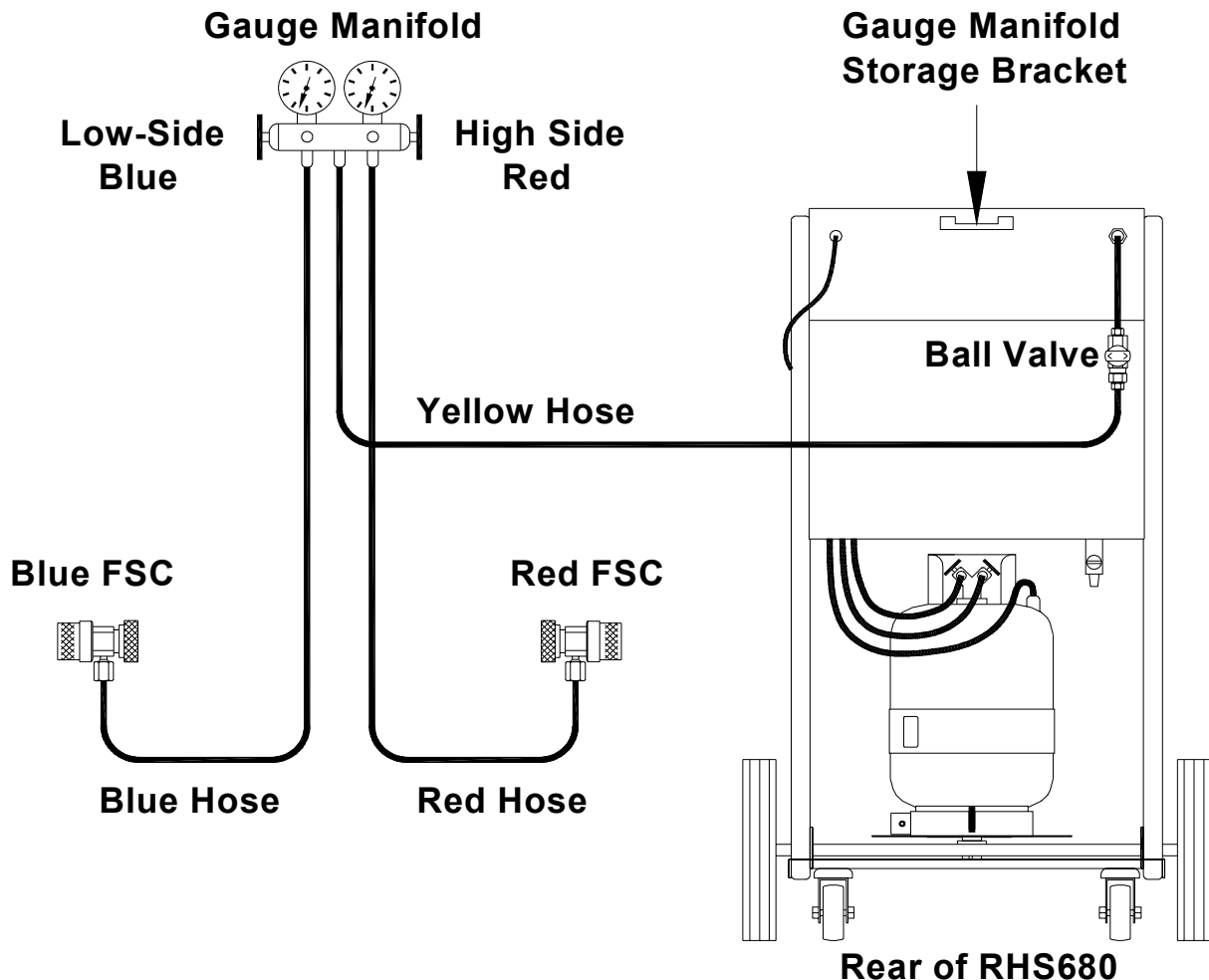
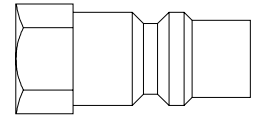
Oil Measuring Cup
026-80012-00



Setup - RHS680

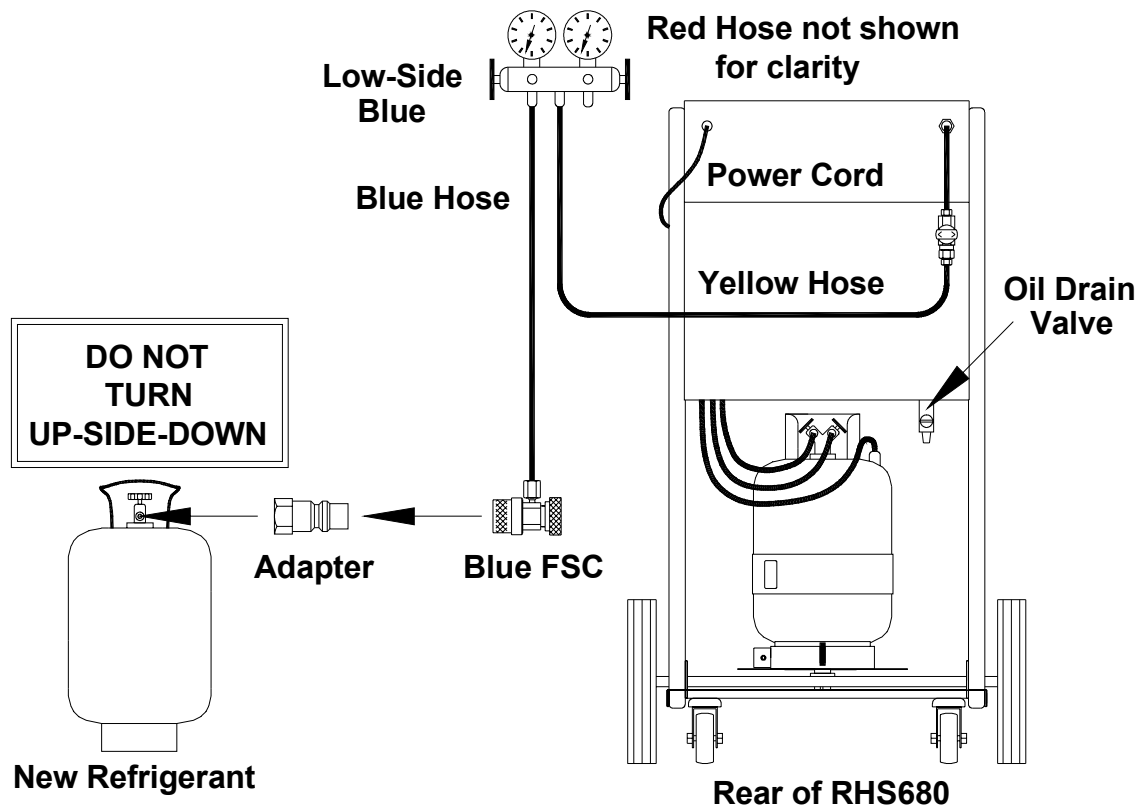
Refer to the illustration below and attach accessories as follows:

1. Store the FSC to ACME Adapter in a secure place. This adapter is used to connect the Blue Field Service Coupler to a tank with a 0.500 ACME fitting.
2. Install Red Field Service Coupler on end of Red Hose.
3. Connect other end of Red Hose to high side (red) of Gauge Manifold.
4. Install Blue Field Service Coupler on end of Blue Hose.
5. Connect other end of Blue Hose to low side (blue) of Gauge Manifold.
6. Connect Yellow Hose (end without ball valve) to center port on the Gauge Manifold.
7. Connect other end (with ball valve) to the inlet port on the rear of the RHS680.
8. A storage bracket on the rear of the RHS780 is provided for the Gauge Manifold.



Filling Internal Cylinder

The RHS680 has an internal cylinder with a maximum capacity of 24 lbs. Refrigerant is recovered from A/C systems, filtered and stored in this cylinder. This refrigerant is then available for charging into A/C systems.



FIRST TIME SETUP

The RHS680 is shipped from the factory without refrigerant. The following steps must be followed to transfer new refrigerant into the internal cylinder.

1. Begin with preferably a full tank of new refrigerant. Connect the Adapter to the port on the tank of new refrigerant. Do not over tighten the Adapter or the O-ring will be distorted and block the port.
2. Close both valves on the Gauge Manifold.
3. Turn both valves on the RHS680 to the OFF position.
4. Make sure the oil drain valve on the rear is closed.
5. Connect the blue Field Service Coupler to the Adapter.
6. **Make sure tank of new refrigerant is NOT up-side-down.**
7. Turn Function Valve on RHS680 to RECOVER.
8. Open low side valve of Gauge Manifold and valve on tank of new refrigerant.
9. Plug in power cord. The display will show **WEIGHT = XX.X LB - RECYCLE?**

10. Press **[ENTER]** key. Refrigerant will transfer from the tank of new refrigerant into the RHS680 internal cylinder. The display will show the weight increasing in the internal cylinder and display **WEIGHT = XX.X LB - RECYCLING**.
11. Close the valve on the tank of new refrigerant when 2 to 3 pounds of refrigerant is indicated on the display.
12. When refrigerant in the hoses and Gauge Manifold has been recovered, the display will show **RECYCLE COMPLETE - CHECK PRESSURES**.
13. Press the **[STOP]** key and turn the Function Valve to OFF.
14. Disconnect Blue Field Service Coupler from tank of new refrigerant.

Function Tests

It's a good idea to perform the following function tests to ensure the RHS680 is operating correctly prior to using it to service an A/C system. These tests will also demonstrate some of the basic operating functions.

The technical support group at RTI Technologies should be contacted if any problems or questions arise during the following tests. Call 800-468-2321 (ext. 259) for assistance.

FILL HOSES AND TEST CHARGE PROCESS:

1. Press **[▲]** key two times. The display will show **WEIGHT = XX.X LB - CHARGE?**
2. Press **[ENTER]** key. The display will show **ENTER CHARGE - AMOUNT = XX.X LB**.
3. Press the **[▶]** key one time to move the blinking cursor to the right one position. Press the **[▲]** key one time until the display shows **ENTER CHARGE - AMOUNT = 01.0 LB**.
4. Press **[ENTER]** key. The display will show **WEIGHT = 01.0 LB - CHARGING**.
5. Turn Function Valve on RHS680 to CHARGE.
6. Refrigerant will fill the yellow hose to the Manifold Gauge. Open both valves on the Gauge Manifold. Refrigerant will fill the red and blue hoses. The gauges will indicate the pressure of the refrigerant. The weight displayed on the RHS680 may or may not change as the hoses are filled.
7. Press **[STOP]** key. The display will show **WEIGHT = XX.X LB - RECYCLE?** Turn Function Valve on RHS680 to OFF. Continue to next test.

Function Tests

RECOVER REFRIGERANT FROM HOSES TO TEST RECYCLE PROCESS:

1. The display will show **WEIGHT = XX.X LB - RECYCLE?**
2. Turn Function Valve on RHS680 to RECOVER.
3. Press [**ENTER**] key. The display will show **WEIGHT = XX.X LB - RECYCLING.**
4. Refrigerant in the three hoses will be recovered. The high and low pressure gauges will show the pressure decrease until a vacuum is reached. The compressor will shut off and the display will show **RECYCLE COMPLETE - CHECK PRESSURES.**
5. Turn Function Valve to OFF and close both valves on the Gauge Manifold.
6. Press [**STOP**] key to end the process.

CONGRATULATIONS

THANKS

Performing these tests demonstrated that the RHS680 is operating correctly.

NOW IT'S TIME TO MAKE SOME MONEY

The best suggestion we can offer is that you quickly browse the Operation Manual before using the RHS680 to perform an actual A/C service. Then, during the first few uses, refer to the Operation Manual and follow the instructions as each process is performed.

The RHS680 was carefully designed to be intuitive to use. The display screens prompt for input as required and always ask for confirmation before starting a process.

It's very important that you follow the Operation Manual the first few times to become familiar with the techniques of using the RHS680 for A/C service. Then you will find that the display screens will give you adequate prompts for future use.

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