

## Operation Guide

### RHS780

#### FILLING THE CHARGE CYLINDER ...

Refer to Page 5 of Operation Manual for detailed instructions.

- 1) Connect cylinder of new refrigerant (15) as shown above.
- 2) Turn on Main Power Switch (3).
- 3) Press Up Arrow on Keypad (2) four times. Display will show [WEIGHT=XX.X LB - FILL CYLINDER].
- 4) Press ENTER. Display will show [CHECK HOSES - START].
- 5) Open valve on cylinder (15).
- 6) Press ENTER. The display will show weight of refrigerant in the Charge Cylinder. Press RESET when amount desired is displayed. Charge Cylinder will fill to 13 lbs. and stop if RESET is not pressed.
- 7) Press ENTER to return to Main Menu.

#### RECOVER / RECYCLE ...

Refer to Page 6 of Operation Manual for detailed instructions.

- 1) Turn on Main Power Switch (3).
- 2) Connect Blue (13) and Red (14) Hoses to A/C System and open valves.
- 3) Press Up Arrow on Keypad (2) one time. Display will show [WEIGHT=XX.X LB - RECYCLE].
- 4) Press Enter. Display will show [RECYCLE HOLD - TIME XX MIN].
- 5) Set time to hold vacuum after recovery using Up and Right Arrows.
- 6) Press ENTER. Display will show [CHECK HOSES - START].
- 7) Press ENTER. Refrigerant will be recovered from A/C System. When vacuum is sensed for duration of recycle hold time set in Step 5 the display will show [AMOUNT RECYCLED = XX.X LB].
- 8) Close both hose valves and disconnect from A/C System.
- 9) Press ENTER to return to Main Menu.

#### DRAINING RECOVERED OIL ...

Refer to Page 7 of Operation Manual for detailed instructions.

- 1) Recovered oil must be drained and measured following each recovery procedure.
- 2) Turn on Main Power Switch (3).
- 3) Press and hold the Oil Drain Re-pressurization Switch (17) for 5 seconds.
- 4) **SLOWLY** open Oil Drain Valve (18) and drain oil into Measuring Cup (19).
- 5) Close Oil Drain Valve (18) and press Oil Drain Re-pressurization Switch (17) for 5 seconds.

#### DEEP VACUUM ...

Refer to Page 8 of Operation Manual for detailed instructions.

- 1) Turn on Main Power Switch (3).
- 2) Connect Blue (13) and Red (14) Hoses to A/C System and open valves.
- 3) Press Up Arrow on Keypad (2) two times. Display will show [WEIGHT=XX.X LB - VACUUM].
- 4) Press ENTER. Display will show [ENTER VACUUM - TIME XX MIN].
- 5) Set time to vacuum using Up and Right Arrows.
- 6) Press ENTER. Display will show [PERFORM LEAK - TEST? Y/N].
- 7) Press Right Arrow to select Yes or No.
- 8) Press ENTER. Display will show [ADD OIL? - Y/N].
- 9) Press Right Arrow to select Yes or No.
- 10) Press ENTER. Display will show time remaining to complete the vacuum procedure.
- 11) Process will stop after vacuum is complete if Yes was selected for Perform Leak Test and/or Add Oil. Refer to Page 8 of Operation Manual for details to perform either of these two procedures.
- 12) Press ENTER to return to Main Menu.

## CHARGING ...

Refer to Page 9 of Operation Manual for detailed instructions.

- 1) Turn on Main Power Switch (3).
- 2) Connect Blue (13) or Red (14) Hose to A/C System and open valve. Hose connected will depend on whether charging will be done to High or Low Side of A/C System.
- 3) Press Up Arrow on Keypad (2) three times. Display will show [WEIGHT=XX.X LB - CHARGE].
- 4) Press Enter. Display will show [ENTER CHARGE - AMOUNT=XX.X LB].
- 5) Set charge amount using Up and Right Arrows.
- 6) Press ENTER. Display will show [CHECK HIGH-LOW - CHARGE SWITCH].
- 7) Press top of High-Low Charge Selector Switch (10) to charge through Red Hose to the High Side of the A/C System or press bottom to charge through Blue Hose to the Low Side of the A/C System.
- 8) Press ENTER. Refrigerant will charge to the A/C System and the display will show [WEIGHT=XX.X LB - CHARGING]. The amount will start at zero and increase to the amount set in Step 5.
- 9) Display will show [CHARGE COMPLETE-EVACUATE HOSES] when charge is complete.
- 10) Press ENTER to return to Main Menu.
- 11) Both hoses can now be connected and the A/C System turned on. High and low pressures can be monitored on Pressure Gauges (1 & 5).
- 12) Close valves on Red and Blue Hoses and disconnect from the A/C System.
- 13) Recover refrigerant from the hoses by performing a Recover/Recycle procedure.

## SETTING OVERCHARGE AMOUNT ...

Refer to Page 13 of Operation Manual for detailed instructions.

- 1) Remove Front Panel from RHS780.
- 2) Turn on Main Power Switch (3).
- 3) Locate Control Box mounted on underside of the Top Control Panel.
- 4) Refer to figure at the right to locate the access hole in Control Box Cover (C). The Calibration Switch (B) is inside this hole mounted on the Solid State Circuit Board.
- 5) Remove Calibration Tool (A) from storage position next to Access Hole.
- 6) Press Up Arrow on Keypad (2) five times. Display will show [WEIGHT = XX.X LB - SETUP].
- 7) Insert Calibration Tool (A) into hole and gently press Calibration Switch (B). The display will show [OVERCHARGE - AMOUNT = XX.X KG].
- 8) Set Overcharge amount desired using Up and Right Arrows.
- 9) Replace Calibration Tool and Front cover of the RHS780.

## AUTOMATIC ...

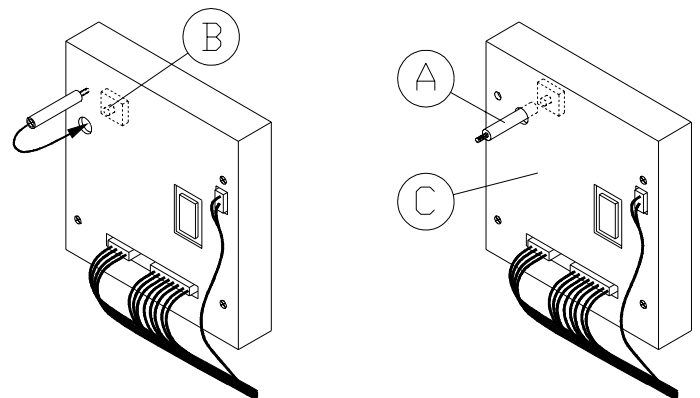
Refer to Page 10 of Operation Manual for detailed instructions.

- 1) Turn on Main Power Switch (3).
- 2) Connect Blue (13) or Red (14) Hose to A/C System and open valve. Hose connected will depend on whether charging will be done to High or Low Side of A/C System.
- 3) The display will show [WEIGHT=XX.X LB - AUTOMATIC?]
- 4) Press ENTER. A series of sequential displays will prompt for input from the technician. These displays are those already described previously. Enter data and answers as indicated. When complete, the RHS780 will begin the automatic sequence.
- 5) The ATTENTION LIGHT (7) will indicate when input from the technician is required as the automatic procedure progresses.

## ACCESSING STORED DATA ...

Refer to Page 12 of Operation Manual for detailed instructions.

- 1) Turn on Main Power Switch (3).
- 2) Press Up Arrow on Keypad (2) five times. Display will show [WEIGHT=XX.X LB - SETUP].
- 3) Press ENTER. The display will show {FILTER HOURS - XX.X HOURS}. Filters should be changed at intervals of 25 hours. Refer to Page 14 of the Operation Manual for Filter Maintenance instructions.  
**NOTE:** Press and hold the Right Arrow and RESET Key to remove the CHANGE FILTERS message.
- 4) Press. The display will show [TOTAL RECYCLED = XXXX.X KG].
- 5) Press Up Arrow on Keypad (2). The display will show [TOTAL CHARGED = XXXX.X KG].
- 6) Press Up Arrow on Keypad (2) to return to Main Menu.



### WEIGHT SCALE CALIBRATION

Contact the Factory should the RHS780 Weight Scale need to be calibrated. Calibration Weights and instructions can be ordered for a nominal cost.

RTI Technologies, Inc.

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