

**UNIVERSAL \*LTC SERVICE REFRIGERATION KIT**

**DATED:**       December 13, 1991  
**REVISED:**     September 15, 1998

**SUBJECT:**    Field Replacement LTC Service Refrigeration Units

**MODEL:**      All Dixie-Narco Venders

**PURPOSE:**    To provide step-by-step instructions for removing and installing the LTC Refrigeration system in Dixie-Narco venders.

**MODEL 1200C-E KIT  
560,141,40X.X4  
INSTALLATION INSTRUCTIONS  
903,901,34x.x1**

**NARROW VENDERS:**

Model Numbers Affected:       168, 180, 240, 276, 300 .....Pages 2, 3, 4, and 5

*Note:    In Coke Landscape, Dr. Pepper D3, and 7UP B7 narrow venders, you will need to install relocation kit# 435,011,800.04*

**WIDE VENDERS:**

Model Numbers Affected:       320, 348, 360, 368, 440, 414, 432.....Pages 2, 3, 6, and 7

**SUMMARY SHEET:**

Listing Parts To Be Used For Each Style Vender ..... Page 11

*Note:    Some models listed are no longer produced by Dixie-Narco.  
1200C-E Replaces 1200C, 1200, 1100C, 1100, 300C, 300-E, 300, 400C, & 400.*

\*LTC - Lint Tolerant Condenser

**MODEL 1200C-E KIT  
560,141,40X.X4**

ITEM #	QTY.	PART NUMBER	DESCRIPTION
1	1	560,140,90x.x3	1/3 HP Refrigeration System

**Note: Order the parts listed below as needed. Use the chart on page 11 to determine parts needed.**

If needed:

Order: 491,014,50x.x3 Service Refrigeration Adapter Kit

ITEM #	QTY.	PART NUMBER	DESCRIPTION
1	2	900,902,19x.x1	Stud Receiver Clip
2	1	901,806,91x.x1	LTC Fan Shroud Adapter Seal
3	1	805,800,64x.x1	LTC Ranson Base Adapter
4	1	805,800,66x.x1	LTC Ranson Right Retrofit Baffle
5	1	805,800,67x.x1	LTC Right Retrofit Baffle
7	1	491,040,05x.x3	Side Condenser Baffle (unmarked)

Order Hardware If Needed:

ITEM #	QTY.	PART NUMBER	DESCRIPTION
1	6	900,301,65x.x1	8-18x½ Self Drilling Screw
2	2	900,200,53x.x1	3/8-16x¾ Cap Hex Screw
3	2	900,700,36x.x1	3/8 Split Washer

**FOR INSTALLATION PURPOSES:**

1. Identify Dixie-Narco manufacturing facility where vender was produced. The facility is shown on the top right corner of the serial plate.
2. Identify vender styling by using vender identification chart on page 4 for narrow venders and page 6 for wide venders.
3. Once identification is made, follow the Removal and Installation Instructions.

## **REFRIGERATION UNIT REMOVAL INSTRUCTIONS**

### **To Remove Inoperative Refrigeration System**

1. **Unplug the vender.**
2. Unplug the refrigeration system.
3. Baffles
  - a. On Ranson built venders with cardboard or plastic baffles, remove right and left baffles.
  - b. On Ranson and Williston built venders with metal baffles, remove screw on each side of condenser fan shroud.
  - c. On all Ranson and Williston built venders with metal baffles serialized 0001-6000 to 1083-6030, remove right hand baffle.
  - d. On Williston built venders serialized **1084-6030 and up, DO NOT REMOVE RIGHT HAND BAFFLE.**
4. Using a 9/16" wrench, remove the two bolts and split washers which are holding down the refrigeration base and save them for the installation of the new unit.
5. On Ranson built narrow venders remove the door roller.
6. Remove the right side mullion cover and save.
7. Remove the can/bottle chute.
8. Remove top evaporator cover by removing the two securing clips and save for installation of the new unit.
9. Loosen evaporator from mounting by removing the screws and bending the tabs away from the ends. Save the screws for installation of the new unit.
10. On Ranson built units with harnessing running up the right side of the cabinet compartment, unclamp harnessing across the top of the refrigeration unit compartment.
11. Carefully slide refrigeration unit (with evaporator) forward and out of vender. Pay close attention to slide the evaporator under the harnessing. You will have to lift the harnessing to allow clearance for the evaporator.

## NARROW VENDER INSTALLATION INSTRUCTIONS FOR LTC REFRIGERATION SYSTEM

Ranson Narrow Vender with Plastic or Cardboard Baffles	Ranson Narrow Vender with Metal Baffles	Williston Built Narrow Vender
YES	YES	NO
YES	YES	NO
NO	YES	NO
NO	YES	NO
NO	YES	NO
YES	YES	NO
NO	YES	NO
YES	YES	YES

### TO INSTALL, IDENTIFY VENDER ON THE VENDER IDENTIFICATION CHART TO THE LEFT AND FOLLOW THE STEPS MARKED YES FOR THAT STYLING ONLY.

1. On all Ranson built venders, install new right hand baffle (805,800,67x.x1) and secure.
  - a. On venders with baffle mounting holes in front surface of base box. (See figure 1, page 8.)
  - b. On venders with baffle mounting holes on inside edge of base box. (See figure 2, page 8.)
2. On all Ranson built venders, install base adapter (805,800,64x.x1).  
To install:
  - a. Place base adapter over projection weld nuts on base of vender.
  - b. Push a stud receiver clip (900,902,19x.x1) on each of the projection weld nuts. (See item 1, figure 5, page 10.)
3. On Ranson built venders with metal baffles, push fan shroud adapter seal (901,806,91x.x1) on left edge of condenser fan shroud. (See item 2, figure 5, page 10).
4. On Ranson built venders with metal baffles, you will need to loosen the front screw of drain pan and move the pan out of the way.
5. On Ranson built venders with metal baffles, remove the front screw holding the left hand baffle in place. (See item 3, figure 3, page 10.)
6. On some Ranson built venders you will need to flatten the tab on the ceiling of the refrigeration compartment.
7. NOTE: On Ranson built venders with metal baffles you will need to push the left baffle out of the way while inserting the refrigeration system.
8. Insert the refrigeration system into the vender, keeping the power cord over the top left edge of the condenser fan shroud.
9. Secure the right baffle to the refrigeration system shroud using No. 8 self driller (900,301,65x.x1).
10. Secure the refrigeration system to the cabinet base using the two refrigeration bolts and split washers removed in step 3, page 3..  
Note:
  - a. Williston built venders use left and right slots.
  - b. Ranson built venders use left and center slots.
11. Route the refrigeration power cord over the top left edge of the condenser fan shroud, then wrap it around the wires coming from the refrigerated compartment towards the left side over the "J" block where it plugs in.  
**(DO NOT PLUG IN AT THIS TIME)**

## NARROW VENDER INSTALLATION INSTRUCTIONS FOR LTC REFRIGERATION SYSTEM

Ranson Narrow Vender with Plastic or Cardboard Baffles	Ranson Narrow Vender with Metal Baffles	Williston Built Narrow Vender
NO	NO	YES
NO	YES	NO
NO	YES	NO
YES	NO	NO
YES	YES	YES
YES	YES	NO
YES	YES	YES
YES	YES	NO
YES	YES	YES

**TO INSTALL, IDENTIFY VENDER ON THE VENDER IDENTIFICATION CHART TO THE LEFT AND FOLLOW THE STEPS MARKED YES FOR THAT STYLING ONLY.**

12. On Williston built venders, secure the left hand baffle to the refrigeration system shroud with a No. 8 self driller (900,301,65x.x1).
13. On Ranson built venders, with metal baffles, push the left hand baffle back in place and secure by replacing the screw which was removed in step 2, page 3.
14. On Ranson built venders with metal baffles, move drain pan back into position and secure.
15. On Ranson built venders with plastic or cardboard baffles, install new left metal baffle (805,800,65x.x1). See figure 4, page 8.)  
To install:
  - a. Hook right side of baffle (Area A, figure 4, page 8) over edge of condenser fan shroud.
  - b. Secure left side of baffle (Area B, figure 4, page 8) with two No. 8 self drilling screws by tightening screws and then back screws off two turns to allow baffle to be removed without tools.
16. Reinstall all ground wires. Make sure ground wires are secured to the vender body. Note: Do not secure ground wires with screws that secure baffles.
17. On Ranson built venders with harnessing running up the right side of the cabinet compartment, clamp the cabinet harnessing across the top of the refrigeration unit compartment.
18. Secure evaporator to mounting by installing screws removed in step 8, page 3.
19. Install top evaporator cover and secure with the clips which were removed in step 7, page 3.
20. Install can/bottle chute and secure.
21. Install right side mullion cover and secure.
22. On Ranson built venders, install door roller, which was removed in step 4, page 3.
23. Plug in unit and test for proper operation.

## WIDE VENDER INSTALLATION INSTRUCTIONS FOR LTC REFRIGERATION SYSTEM

Ranson Wide Vender with Plastic or Cardboard Baffles	Ranson Wide Vender with Metal Baffles	Williston Built Wide Vender
NO	NO	YES
NO	YES	NO
YES	NO	NO
YES	YES	NO
NO	YES	NO
YES	YES	YES
YES	YES	YES
YES	YES	YES

### TO INSTALL, IDENTIFY VENDER ON THE VENDER IDENTIFICATION CHART TO THE LEFT AND FOLLOW THE STEPS MARKED YES FOR THAT STYLING ONLY.

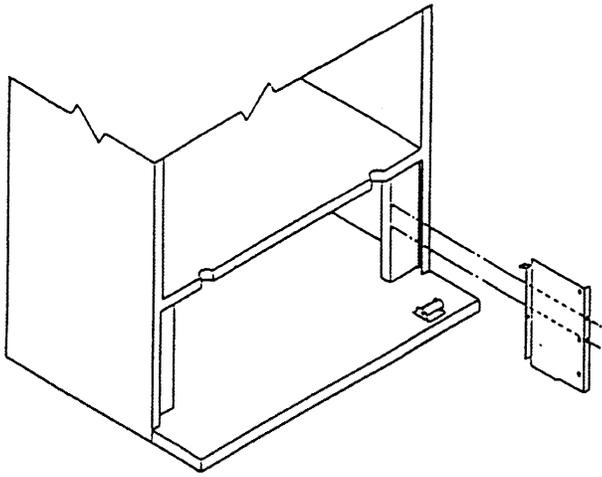
1. On Williston built venders 0001-6000 to 1083-6030, install condenser baffle (491,040,05x.x3). (See figure 3, page 8.)
2. On Ranson built venders with new style (4" wide) base boxes, install new right hand baffle (805,800,66x.x1) and secure. (See figure 3, page 8).
3. On Ranson built venders with old style (6" wide) base boxes, install new right hand baffle (805,800,67x.x1) and secure. (See figure 1, page 8).
4. On all Ranson built venders, install the base adapter (805,800,64x.x1).  
 Note: Remove syrup and/or dirt built up on vender base before installing, to ensure proper fit of base adapter.  
 To install:
  - a. Place the base adapter over the projection weld nuts on the base of the vender.
  - b. Push a stud receiver (900,902,19x.x1) on each of the projection weld nuts. (See item 1, figure 5, page 9.)
5. If vender was built in Ranson with metal baffles, push the fan shroud adapter seal (901,806,91x.x1) on to the left edge of the condenser fan shroud. (See item 2, figure 5, page 10.)
6. On Ranson built venders with metal baffles, you will need to loosen the front screw of the drain pan and move the pan out of the way.
7. On Ranson built venders with metal baffles, remove the front screw holding the left hand baffle in place. (See item 3, figure 3, page 8.)
8. Note: On Ranson built venders with metal baffles, you will need to push the left baffle out of the way while inserting the refrigeration system.
9. Insert the refrigeration system into the vender, keeping the power cord over the top left edge of the condenser fan shroud.
10. Secure the right baffle to refrigeration system using No. 8 self driller (900,301,65x.x1).
11. Secure the refrigeration system to the cabinet base using the two refrigeration bolts (900,200,53x.x1).
  - a. Williston built venders use left and right slots.
  - b. Ranson built venders use left and center slots.

## WIDE VENDER INSTALLATION INSTRUCTIONS FOR LTC REFRIGERATION SYSTEM

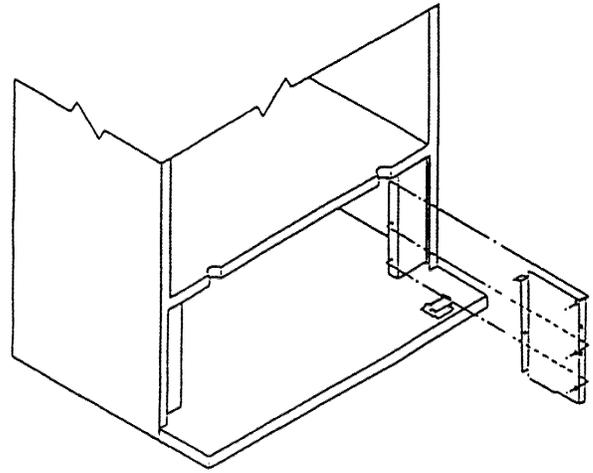
Ranson Wide Vender with Plastic or Cardboard Baffles	Ranson Wide Vender with Metal Baffles	Williston Built Wide Vender
YES	YES	YES
NO	NO	YES
NO	YES	NO
NO	YES	NO
YES	NO	NO
YES	YES	YES
YES	YES	NO
YES	YES	YES

### TO INSTALL, IDENTIFY VENDER ON THE VENDER IDENTIFICATION CHART TO THE LEFT AND FOLLOW THE STEPS MARKED YES FOR THAT STYLING ONLY.

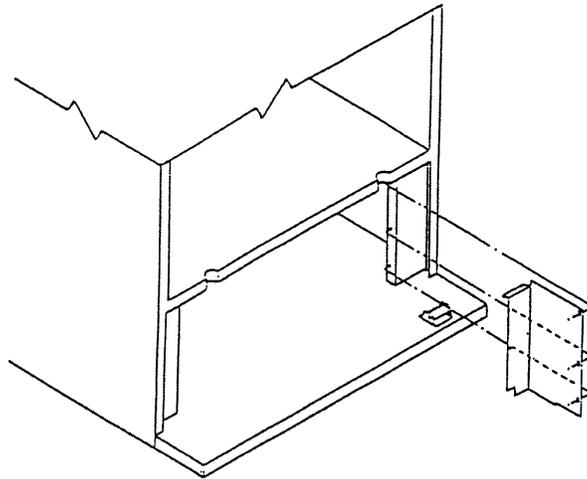
12. Route the refrigeration power cord over the top left edge of the condenser fan shroud, then wrap it around the wires coming from the refrigerated compartment towards the left side over the "J" block where it plugs in. (DO NOT PLUG IN AT THIS TIME)
13. On Williston built venders secure the left hand baffle to the refrigeration system with a No. 8 self driller (900,301,65x.x1).
14. On Ranson built venders with metal baffles, push the let hand baffle back in place and secure by replacing the screw removed in step 2, page 3.
15. On Ranson built venders with metal baffles, move the drain pan back into position and secure.
16. On Ranson built venders with plastic or cardboard baffles, install the new left metal baffle (805,800,65x.x1). (See figure 4, page 8)  
To install:
  - a. Hook right side baffle (Area A, figure 4, page 8) over edge of condenser fan shroud.
  - b. Secure left side of baffle (Area B, figure 4, page 8) with two No. 8 self drilling screws by tightening the screws and then back screws off two turns to allow the baffle to be removed without tools.
17. Reinstall all ground wires. Make sure ground wires are secured to the vender body. Note: Do not secure the ground wires with screws that secure baffles.
18. On Ranson built units with harnessing running up the right side of the cabinet compartment, clamp the cabinet harnessing across the top of the refrigeration unit compartment.
19. Secure the evaporator to the mounting by installing the screws removed in step 8, page 3.
20. Install top evaporator cover and secure with clips removed in step 7, page 3.
21. Install the can/bottle chute and secure.
22. Install right side mullion cover and secure.
23. Plug in unit and test for proper operation.



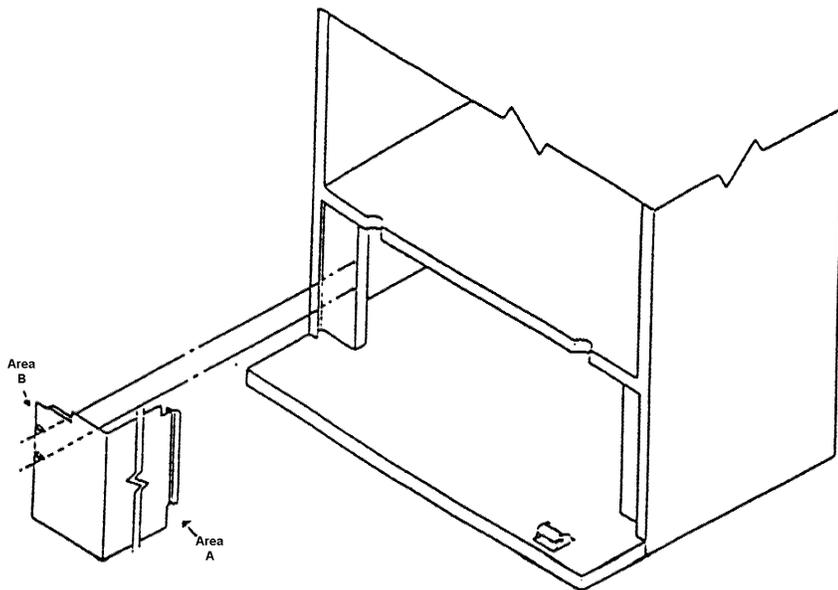
**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**

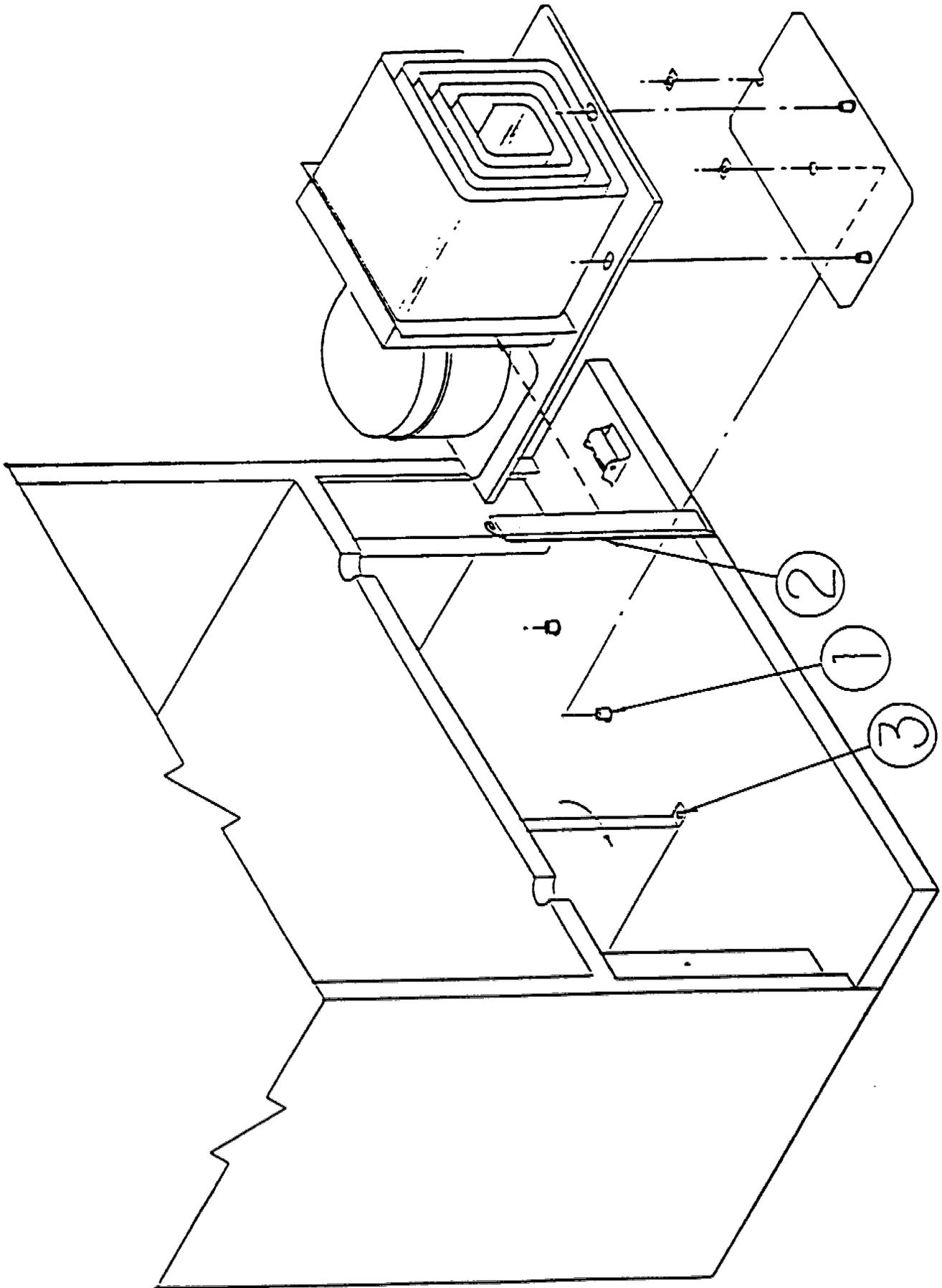


Figure 5

**PARTS USED IN LTC INSTALLATION  
DIXIE-NARCO NARROW VENDERS**

			PARTS FOR INSTALLATION		
Ranson Narrow Vender with Plastic or Cardboard Baffle	Ranson Narrow Vender with Metal Baffles	Williston Narrow Vender with Metal Baffles	Item #	Part Number	Description
YES	YES	YES	1	560,140,90x.x3	1/3 HP Refrigeration System
YES	YES	NO	2	900,902,19x.x1	Stud Receiver Clip
NO	YES	NO	3	901,806,91x.x1	LTC Fan Shroud Adapter Seal
YES	YES	NO	4	805,800,64x.x1	LTC Ranson Base Adapter
YES	NO	NO	5	805,800,65x.x1	LTC Left Retrofit Baffle
NO	NO	NO	6	805,800,66x.x1	LTC Ranson Right Retrofit Baffle
YES	YES	NO	7	805,800,67x.x1	LTC Right Retrofit Baffle
NO	NO	NO	8	805,800,68x.x1	LTC Left Retrofit Baffle
NO	NO	NO	9	491,040,05x.x3	Side Condenser Baffle
YES	YES	YES	10	900,301,65x.x1	8-18x1/2 Self Drilling Screw
YES	YES	NO	11	900,200,53x.x1	3/4-16x1 Machine Screw
YES	YES	NO	12	900,700,36x.x1	3/8 Split Washer

**PARTS USED IN LTC INSTALLATION  
DIXIE-NARCO WIDE VENDERS**

			PARTS FOR INSTALLATION		
Ranson Wide Vender with Plastic or Cardboard Baffle	Ranson Wide Vender with Metal Baffles	Williston Wide Vender with Metal Baffles	Item #	Part Number	Description
YES	YES	YES	1	560,140,90x.x3	1/3 HP Refrigeration System
YES	YES	NO	2	900,902,19x.x1	Stud Receiver Clip
NO	YES	NO	3	901,806,91x.x1	LTC Fan Shroud Adapter Seal
YES	YES	NO	4	805,800,64x.x1	LTC Ranson Base Adapter
YES	NO	NO	5	805,800,65x.x1	LTC Left Retrofit Baffle
NO	YES	NO	6	805,800,66x.x1	LTC Ranson Right Retrofit Baffle
YES	NO	NO	7	805,800,67x.x1	LTC Right Retrofit Baffle
YES	NO	NO	8	805,800,68x.x1	LTC Left Retrofit Baffle
NO	NO	YES	9	491,040,05x.x3	Side Condenser Baffle
YES	YES	YES	10	900,301,65x.x1	8-18x1/2 Self Drilling Screw
YES	YES	NO	11	900,200,53x.x1	3/4-16x1 Machine Screw
YES	YES	NO	12	900,700,36x.x1	3/8 Split Washer