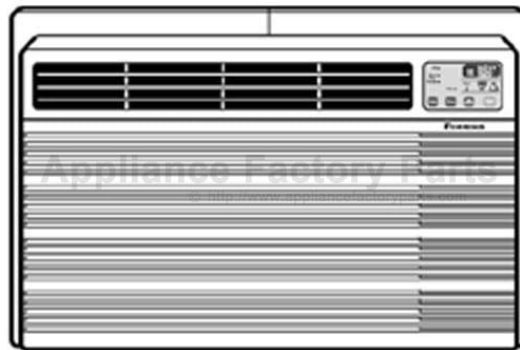


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FRIEDRICH US12B10 Owner's Manual

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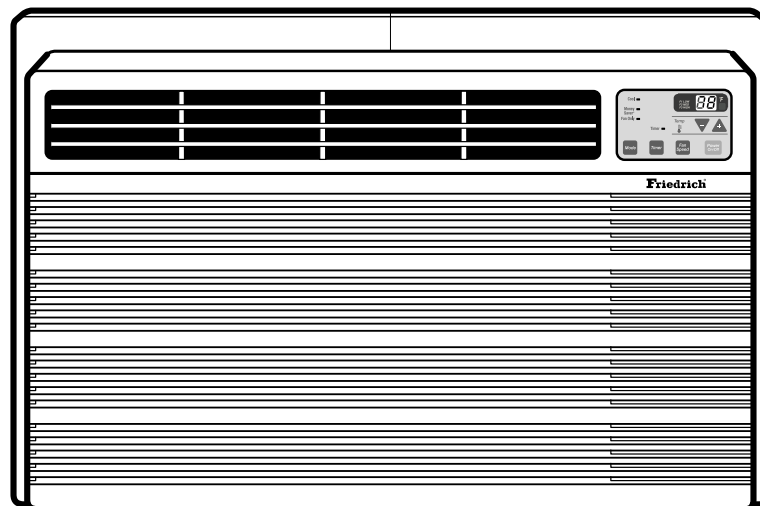


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Thru-the-Wall Series Service and Parts Manual



Thru-the-Wall Series

115 Volts • US08 • US10 • US12 • UE08
230 Volts • US10 • US12 • UE10 • UE12

CONTENTS

1. PREFACE

1.1 SAFETY PRECAUTIONS	2
1.2 INSULATION RESISTANCE TEST.....	2
1.3 SPECIFICATIONS	3
1.4 FEATURES	6
1.5 CONTROL LOCATIONS.....	6

2. DISASSEMBLY INSTRUCTIONS

2.1 MECHANICAL PARTS.....	8
2.1.1 FRONT GRILLE	8
2.1.2 CABINET.....	8
2.1.3 CONTROL BOX	8
2.2 AIR HANDLING PARTS.....	9
2.2.1 ORIFICE, HEATER ASSY AND TURBO FAN	9
2.2.2 FAN.....	9
2.2.3 SHROUD.....	10
2.3 ELECTRICAL PARTS	10
2.3.1 MOTOR.....	10
2.3.2 COMPRESSOR	10
2.3.3 CAPACITOR	10
2.3.4 POWER CORD.....	11
2.3.5 THERMOSTAT	11
2.3.6 ROTARY SWITCH.....	11

2.4 REFRIGERATION CYCLE.....	12
2.4.1 CONDENSER	12
2.4.2 EVAPORATOR	12
2.4.3 CAPELLARY TUBE.....	12

3. INSTALLATION

3.1 INSTALLATION REQUIREMENTS.....	15
3.2 INSTALLATION.....	16
3.3 PROCEDURE A.....	17
3.4 PROCEDURE B.....	18
3.5 PROCEDURE C.....	20
3.4 ELECTRICAL REQUIREMENTS	22
3.4.1 ELECTRICAL DATA(FOR 115V MODEL)	22
3.4.2 ELECTRICAL DATA(FOR 230V/208 MODEL)	22
3.4.3 ELECTRICAL SAFETY	22

4. TROUBLESHOOTING GUIDE

4.1 OUTSIDE DIMENSIONS.....	23
4.2 PIPING SYSTEM	23
4.3 TROUBLESHOOTING GUIDE.....	24

5. SCHEMATIC DIAGRAM

5.1 CIRCUIT DIAGRAM.....	29
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6. EXPLODED VIEW

7. REPLACEMENT PARTS LIST

1. PREFACE

This SERVICE MANUAL provides various service information, including the mechanical and electrical parts etc. This room air conditioner was manufactured and assembled under a strict quality control system. The refrigerant is charged at the factory. Be sure to read the safety precautions prior to servicing the unit.

1.1 SAFETY PRECAUTIONS

1. When servicing the unit, set the ROTARY SWITCH or POWER SWITCH to OFF(O) and unplug the power cord.
2. Observe the original lead dress.
If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing the unit, make an insulation resistance test to protect the customer from being exposed to shock hazards.

1.2 INSULATION RESISTANCE TEST

1. Unplug the power cord and connect a jumper between 2 pins (black and white).
2. The grounding conductor (green or green & yellow) is to be open.
3. Measure the resistance value with an ohm meter between the jumpered lead and each exposed metallic part on the equipment at all the positions (except OFF or O) of the ROTARY SWITCH or POWER SWITCH.
4. The value should be over 1MΩ.

1.3 SPECIFICATIONS

1.3.1 FOR US08B10/ US10B10/ US12B10

ITEMS	MODELS		US08B10	US10B10	US12B10	REMARK
POWER SUPPLY				1Ø, 115V, 60Hz		
COOLING CAPACITY (Btu/h)			8,000	10,000	11,700	
INPUT (W)			800	1,050	1,230	
RUNNING CURRENT (A)			7.5	9.8	11.5	
E.E.R (Btu/w.h)			10.0	9.5	9.5	
REFRIGERANT (R-22) CHARGE(g)			380(13.2 OZ)	410(14.5 OZ)	475(16.8 OZ)	
OPERATING TEMPERATURE	INDOOR (°C)			26.7(DB) 19.4(WB)		
	OUTDOOR (°C)			35(DB) 23.9(WB)		
EVAPORATOR			2 ROW 12 STACKS		2 ROW 11 STACKS	LOUVERED-FIN TYPE
CONDENSER		2 ROW 17 STACKS, L-BENDED TYPE				
FAN, INDOOR		TURBO FAN				
FAN, OUTDOOR		PROPELLER TYPE FAN WITH SLINGER-RING				
FAN SPEEDS, FAN/COOLING		3/3				
FAN MOTOR		6 POLES				
OPERATION CONTROL		ELECTRIC				
ROOM TEMP. CONTROL		THERMISTOR				
AIR DIRECTION CONTROL		VERTICAL LOUVER(RIGHT & LEFT)				
		HORIZONTAL LOUVER(UP & DOWN)				
CONSTRUCTION		TOP-DOWN				
PROTECTOR	COMPRESSOR	EXTERNAL OVERLOAD PROTECTOR				
	FAN MOTOR	INTERNAL THERMAL PROTECTOR				
POWER CORD		1.6m (3WIRE WITH GROUNDING)				
		ATTACHMENT PLUG(CORD-CONNECTED TYPE)				
DRAIN SYSTEM		SPLASHED BY FAN SLINGER				
NET WEIGHT (lbs/kg)			72/33	79/36	80/37	
DIMENSION (W x H x D)		(inch)	24 ^{21/32} x 14 ^{13/32} x 19 ^{21/32}			
		(mm)	626 x 366 x 499			
SLEEVE DIMENSION (W x H x D)		(inch)	25 ^{7/8} x 15 ^{17/32} x 16 ^{23/32}			OPTIONAL PART
		(mm)	656 x 394 x 425			
SLEEVE DEPTH WITH FRONT GRILLE		(inch)	20			
		(mm)	510			

1.3.2 FOR US10B30/US12B30

ITEMS		MODELS		REMARK
		US10B30	US12B30	
POWER SUPPLY		1Ø, 208/ 230V, 60Hz		
COOLING CAPACITY	(Btu/h)	9,800/10,000	11,400/11,700	
INPUT	(W)	1,030/1,050	1,200/1,230	
RUNNING CURRENT	(A)	5.2/4.7	6.2/5.8	
E.E.R.	(Btu/W.h)	9.5	9.5	
OPERATING TEMPERA-TURE	INDOOR (°C)	26.7 (DB)	19.4 (WB)	
	OUTDOOR (°C)	35 (DB)	23.9 (WB)	
REFRIGERANT (R-22) CHARGE(g)		440(15.5 OZ)	465(16.4 OZ)	
EVAPORATOR		2 ROW 12 STACKS	2 ROW 11 STACKS	LOUVERED-FIN TYPE
CONDENSER		2 ROW 17 STACKS, L-BENDED TYPE		
FAN, INDOOR		TURBO FAN		
FAN, OUTDOOR		PROPELLER TYPE FAN WITH SLINGER-RING		
FAN SPEEDS (FAN/COOLING/HEATING)		3/3		
FAN MOTOR		6 POLES		
OPERATION CONTROL		ELECTRIC		
ROOM TEMP. CONTROL		THERMISTOR		
AIR DIRECTION CONTROL		VERTICAL LOUVER (RIGHT & LEFT)		
		HORIZONTAL LOUVER (UP & DOWN)		
CONSTRUCTION		TOP-DOWN		
PROTECTOR	COMPRESSOR	EXTERNAL OVERLOAD PROTECTOR		
	FAN MOTOR	INTERNAL THERMAL PROTECTOR		
POWER CORD		1.6m (3 WIRE WITH GROUDING)		
		ATTACHMENT PLUG (CORD-CONNECTED TYPE)		
DRAIN SYSTEM		SPLASHED BY FAN SLINGER		
NET WEIGHT	(lbs/kg)	80/36	80/37	
DIMENSION (W x H x D)	(inch)	24 ^{21/32} x 14 ^{13/32} x 19 ^{21/32}		
	(mm)	626 x 366 x 499		
SLEEVE DIMESION (W x H x D)	(inch)	25 ^{7/8} x 15 ^{17/32} x 16 ^{23/32}		OPTIONAL PART
	(mm)	656 x 394 x 425		
SLEEVE DEPTH WITH FRONT GRILLE	(inch)	20		
	(mm)	510		

1.3.3 FOR UE08A13A/UE10A33A/UE12A33A

ITEMS		MODELS	UE08A13A	UE10A33A	UE12A33A	REMARK
POWER SUPPLY			1Ø, 115V, 60Hz	1Ø, 208/ 230V, 60Hz		
COOLING	CAPACITY (Btu/h)		8,000	9,800/10,000	11,400/11,700	
	INPUT (W)		800	1,030/1,050	1,200/1,230	
	RUNNING CURRENT (A)		7.5	5.2/4.7	6.2/5.8	
	E.E.R. (Btu/W.h)		10.0	9.5	9.5	
HEATING	CAPACITY (Btu/h)		3,850	9,200/11,200		
	INPUT (W)		1,230	2,900/3,500		
	RUNNING CURRENT (A)		10.7	14.0/15.3		
OPERATING TEMPERATURE	COOLING	INDOOR (°C)	26.7 (DB) 19.4 (WB)			
		OUTDOOR (°C)	35 (DB) 23.9 (WB)			
	HEATING	INDOOR (°C)	21.1 (DB) 15.6 (WB)			
		OUTDOOR (°C)	8.3 (DB) 6.1 (WB)			
REFRIGERANT (R-22) CHARGE(g)			380(13.2 OZ)	440(15.5 OZ)	465(16.4 OZ)	
EVAPORATOR			2 ROW 12 STACKS		2 ROW 11 STACKS	LOUVERED-FIN TYPE
CONDENSER			2 ROW 17 STACKS, L-BENDED TYPE			
FAN, INDOOR			TURBO FAN			
FAN, OUTDOOR			PROPELLER TYPE FAN WITH SLINGER-RING			
FAN SPEEDS (FAN/COOLING/HEATING)			1/ 2/ 2			
FAN MOTOR			6 POLES			
OPERATION CONTROL			ROTARY SWITCH			
ROOM TEMP. CONTROL			THERMOSTAT			
AIR DIRECTION CONTROL			VERTICAL LOUVER (RIGHT & LEFT)			
			HORIZONTAL LOUVER (UP & DOWN)			
CONSTRUCTION			TOP-DOWN			
ELECTRIC HEATER			1.2KW, 115V	3.5KW, 208/230V		
PROTECTOR	COMPRESSOR		EXTERNAL OVERLOAD PROTECTOR			
	FAN MOTOR		INTERNAL THERMAL PROTECTOR			
	ELECTRIC HEATER		FUZE LINK, BIMETAL THERMOSTAT			
POWER CORD			1.6m (3 WIRE WITH GROUDING)			
			ATTACHMENT PLUG (CORD-CONNECTED TYPE)			
DRAIN SYSTEM			SPLASHED BY FAN SLINGER			
NET WEIGHT (lbs/kg)			73/33	80/36	81/37	
DIMENSION (W x H x D)		(inch)	24 ^{21/32} x 14 ^{13/32} x 19 ^{21/32}			
		(mm)	626 x 366 x 499			
SLEEVE DIMESION (W x H x D)		(inch)	25 ^{7/8} x 15 ^{17/32} x 16 ^{23/32}			OPTIONAL PART
		(mm)	656 x 394 x 425			
SLEEVE DEPTH WITH FRONT GRILLE		(inch)	20			
		(mm)	510			

1.4 FEATURES

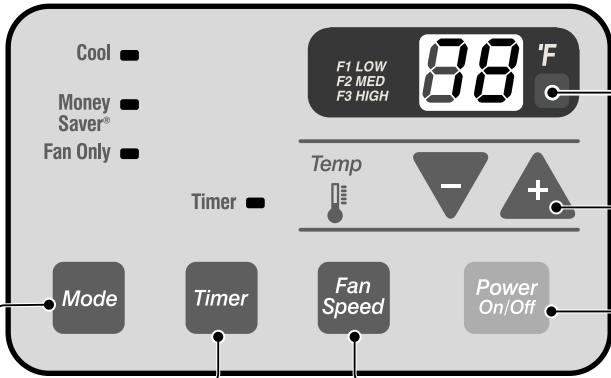
- Designed for cooling only.
- Powerful and quiet cooling.
- Top-down chassis for the simple installation and service.

- Side air-intake, side cooled-air discharge.
- Built in adjustable THERMISTOR and THERMOSTAT.
- Washable one-touch filter.
- Compact size.

1.5 CONTROL LOCATIONS

1.5.1 COOLING ONLY MODEL

• OPERATION



REMOTE CONTROL SIGNAL RECEIVER

TEMPERATURE SETTING

- Use this button to automatically control the temperature of the room.
- The temperature can be set within a range of 60°F to 86°F by increments of 1°F.

POWER

- To turn the air conditioner ON, push this button.
- To turn the air conditioner OFF, push the button again.
- This button takes priority over any other button.
- When you first turn it on, the unit is in cool mode, at High fan speed, and set at a temperature setting of 72°F.

FAN SPEED

- Every time you push this button, it advances the setting as follows:
{High → Low → Med → High}

TIMER

- SHUT-OFF TIME

- You will usually use shut-off time while you sleep.
- With unit running, use Timer to set number of hours until shut-off.
- For your sleeping comfort, once Time is set, the Temperature setting will raise 2°F after 30 min., and 2°F after another 30 min.
- Every time you push Timer button, it advances the Timer setting as follows: 1 Hour → 2 Hours → ... → 12 Hours maximum.

- START TIME

- With unit not running, use Timer to set number of hours before unit starts.
- Every time you push Timer button, it advances the Timer setting as follows: 1 Hour → 2 Hours → ... → 12 Hours maximum.

MODE

- Every time you push this button, the air conditioner alternates between COOL, MONEY SAVER® and FAN.

- MONEY SAVER:

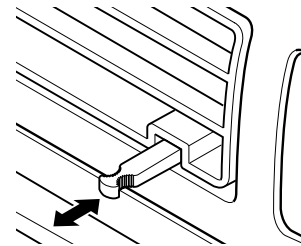
- The fan stops when the compressor stops cooling. Approximately every 3 minutes the fan will turn on and the unit will check the room air to determine if cooling is needed.

• VENTILATION

Push the lever to the "CLOSE" position to cool, heat or recirculate room air only.

Pull the lever to the "OPEN" position to exhaust smoke or stale air from the room.

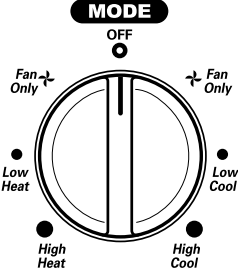
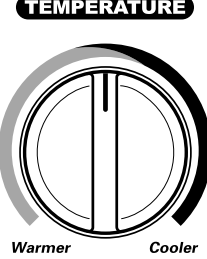
This feature is best used in conjunction with the FAN ONLY position.



PULL OPEN / PUSH CLOSE

1.5.2 COOLING AND HEATING MODEL

• OPERATION

 <p>The diagram shows a circular MODE knob with a vertical line through the center. At the top is 'OFF'. Moving clockwise from the top, the settings are: 'Fan Only' (two positions), 'Low Cool', 'High Cool', 'Low Heat', and 'High Heat'.</p>	<p>Off - Turns the air conditioner off. Fan Only - The low fan speed operation without cooling (heating). Low Cool - Cooling with the low speed fan operation. High Cool - Cooling with the high speed fan operation. Low Heat - Heating with the low speed fan operation. High Heat - Heating with the high speed fan operation.</p>
 <p>The diagram shows a circular TEMPERATURE knob with a vertical line through the center. A curved arrow on the left indicates the 'Warmer' direction (counter-clockwise), and a curved arrow on the right indicates the 'Cooler' direction (clockwise).</p>	<p>Turn the Temperature Knob to the desired setting. The central position is a normal setting for average conditions. You can change this setting, if necessary, in accordance with your temperature preference.</p> <p>The thermostat automatically controls cooling or heating, but the fan runs continuously whenever the air conditioner is in operation. If the room is too warm, turn the thermostat control clockwise. If the room is too cool, turn the thermostat control counterclockwise.</p>

CAUTION

When the air conditioner has been operating in the cooling or heating mode and is turned off or set to the fan only position, wait at least 3 minutes before resetting to the cooling operation again.

A slight burning odor may come from the unit when first switching to HEAT after the cooling season is over. This odor, caused by fine dust particles on the heater, will disappear quickly. This is normal operation.

2. DISASSEMBLY INSTRUCTIONS

— Prior to disassembling the unit, make sure that the POWER switch is set to OFF and the power cord is unplugged from the wall receptacle.

2.1 MECHANICAL PARTS

2.1.1 FRONT GRILLE

1. Open the inlet grille downward.
2. Remove the screw which fastens the front grille.
3. Pull the front grille from the right side.
4. Remove the front grille. (See Fig. 1)
5. Re-install the component by referring to the removal procedure.

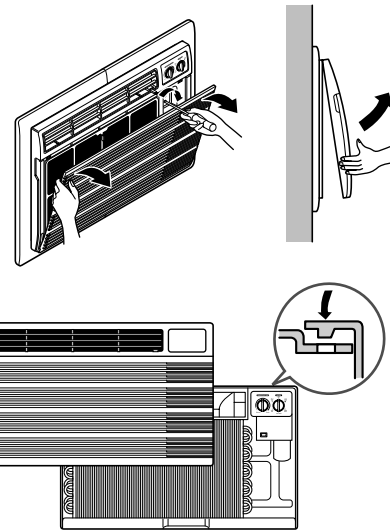


Figure 1

2.1.2 CABINET

1. After disassembling the FRONT GRILLE, remove the 9 screws which fasten the cabinet at the both sides and the top. (See Fig. 2)
Keep these for later use.

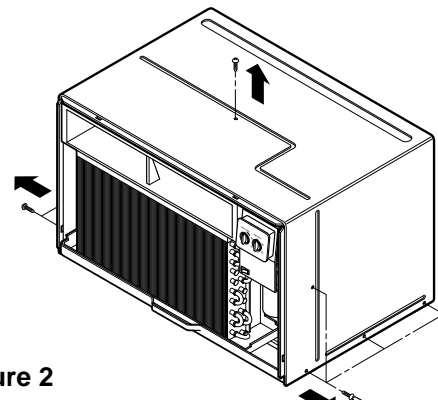


Figure 2

2.1.3 CONTROL BOX

1. Remove the front grille. (Refer to section 2.1.1)
2. Remove the screw which fasten the control box. (See Fig. 3)
3. Pull the control box from the barrier. (See Fig. 3)
4. Discharge the capacitor by placing a 20,000 ohm resistor across the capacitor terminals.
5. Disconnect two wire housings in the control box.
6. Pull the control box forward completely.
7. Re-install the components by referring to the removal procedure. (See Fig. 3)
(Refer to the circuit diagram found on pages 29~30 in this manual and on the control box.)

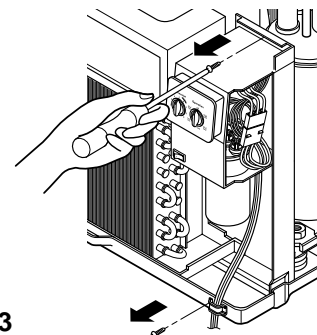


Figure 3

2.2 AIR HANDLING PARTS

2.2.1 ORIFICE, HEATER ASSY AND TURBO FAN

1. Remove the front grille. (Refer to section 2.1.1)
2. Remove the cabinet. (Refer to section 2.1.2)
3. Remove the 2 screws which fasten the evaporator at the left side and the right side. (See Fig. 4)
4. Move the evaporator sideward carefully.
5. Remove the 2 terminals carefully (See Fig. 5, Electric Heater Model only)
6. Remove the 4 screws which fasten the orifice. (See Fig. 5)
7. Remove the orifice. (See Fig. 5)

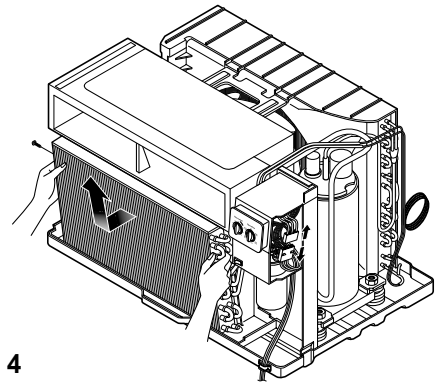


Figure 4

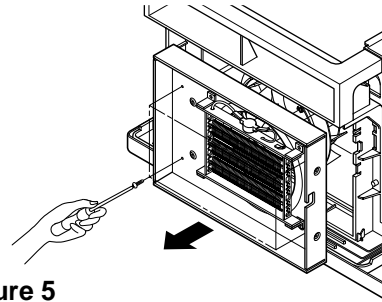


Figure 5

8. Using handheld pliers, remove the clamp which secures the turbo fan. (See Fig. 6)

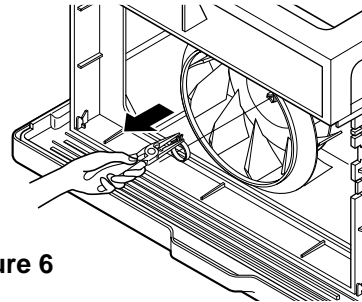


Figure 6

9. Remove the turbo fan with pliers or your hand, without touching blades. (See Fig. 7)
10. Re-install the components by referring to the removal procedures, above.

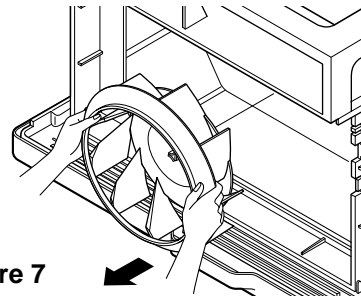


Figure 7

2.2.2 FAN

1. Remove the cabinet. (Refer to section 2.1.2)
2. Remove the brace and shroud cover. (Refer to section 2.2.1)
3. Remove the 6 screws which fasten the condenser.
4. Move the condenser sideways carefully.
5. Using handheld pliers, remove the clamp which secures the fan.
6. Remove the fan. (See Fig. 8)
7. Re-install the components by referring to the removal procedures, above.

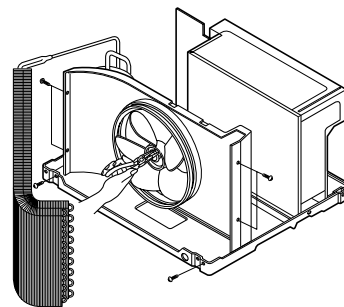


Figure 8

2.2.3 SHROUD

1. Remove the fan. (Refer to section 2.2.2)
2. Remove the screw which fastens the shroud.
3. Remove the shroud. (See Fig. 9)
4. Re-install the components by referring to the removal procedures, above.

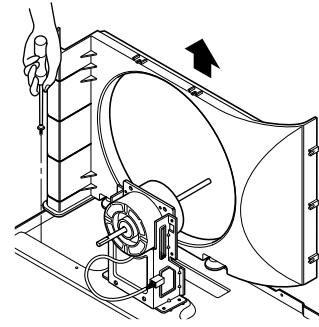


Figure 9

2.3 ELECTRICAL PARTS

2.3.1 MOTOR

1. Remove the cabinet. (Refer to section 2.1.2)
2. Remove the clamp cord and disconnect the wire housing in control box. (Refer to section 2.1.3)
3. Remove the turbo fan. (Refer to section 2.2.2)
4. Remove the fan. (Refer to section 2.2.2)
5. Remove the 4 or 2 screws which fasten the motor. (See Fig. 10)
6. Remove the motor.
7. Re-install the components by referring to the removal procedures, above.

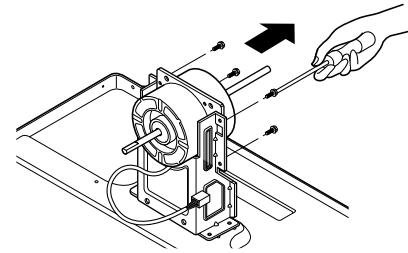


Figure 10

2.3.2 COMPRESSOR

1. Remove the cabinet. (Refer to section 2.1.2)
2. Discharge the refrigerant system using a Freon™ Recovery System.
If there is no valve to attach the recovery system to, install one (such as a WATCO A-1) before venting the Freon™. Leave the valve in place after servicing the system.
3. Disconnect the 3 leads from the compressor.
4. After purging the unit completely, unbraid the suction and discharge tubes at the compressor connections.
5. Remove the 3 nuts and the 3 washers which fasten the compressor. (See Fig. 11)
6. Remove the compressor.
7. Re-install the components by referring to the removal procedures, above.

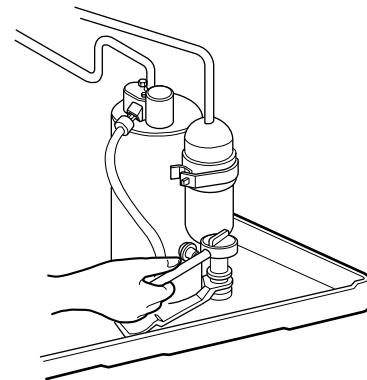


Figure 11

2.3.3 CAPACITOR

1. Remove the control box. (Refer to section 2.1.3)
2. Remove knobs and the tips which fasten the display panel.
3. Disconnect the 2 leads from the rocker switch and remove the panel (Energy saver model only).
4. Remove 2 screws and unfold the control box. (See Fig. 12)
5. Remove the Rotary Switch.
6. Remove the screw and the clamp which fastens the capacitor. (See Fig. 12)
7. Disconnect all the leads on the capacitor terminals.
8. Re-install the components by referring to the removal procedures, above.

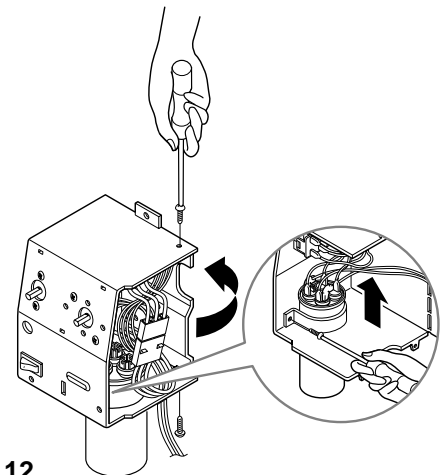


Figure 12

2.3.4 POWER CORD

1. Remove the control box. (Refer to section 2.1.3)
2. Unfold the control box. (Refer to section 2.3.3)
3. Disconnect the grounding screw from the control box.
4. Disconnect 2 receptacles.
5. Remove a screw which fastens the clip cord.
6. Pull the power cord. (See Fig. 13)
7. Re-install the components by referring to the removal procedure, above.
(Use only one ground-marked hole, \oplus , for ground connection.)
8. If the supply cord of this appliance is damaged, it must be replaced with the factory-authorized and specified cord.

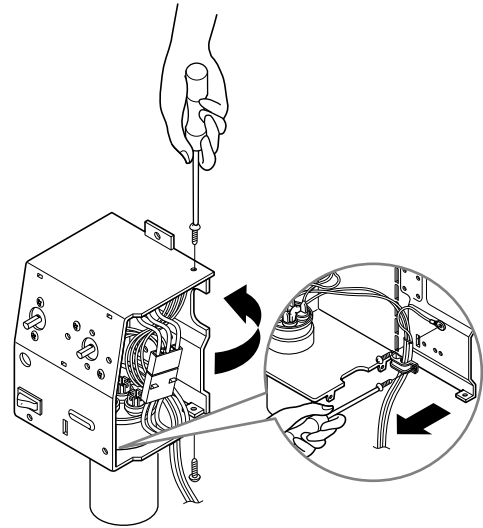


Figure 13

2.3.5 THERMOSTAT

1. Remove the control box. (Refer to section 2.1.3)
2. Unfold the control box. (Refer to section 2.3.3)
3. Remove the 2 screws which fasten the thermostat.
4. Disconnect all the leads of thermostat terminals.
5. Remove the thermostat. (See Fig. 14)
6. Re-install the components by referring to the removal procedures, above.

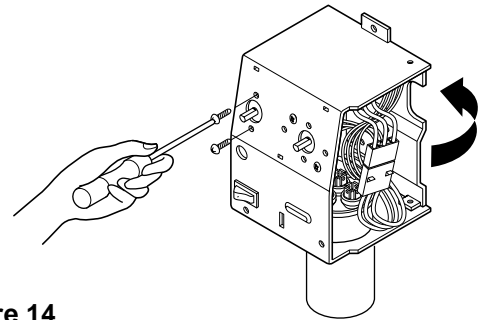


Figure 14

2.3.6 ROTARY SWITCH

1. Remove the control box. (Refer to section 2.1.3)
2. Unfold the control box. (Refer to section 2.3.3)
3. Remove 2 screws which fasten the rotary switch.
4. Disconnect all the leads of the rotary switch terminals.
5. Remove the rotary switch. (See Fig. 15)
6. Re-install the components by referring to the removal procedure, above.

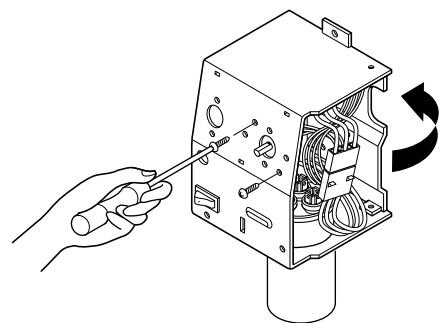


Figure 15

2.4 REFRIGERATION CYCLE

CAUTION

Discharge the refrigerant system using a Freon™ Recovery System. If there is no valve to attach the recovery system, install one (such as a WATCO A-1) before venting the Freon™. Leave the valve in place after servicing the system.

2.4.1 CONDENSER

1. Remove the cabinet. (Refer to section 2.1.2)
2. Remove the brace and the shroud cover. (Refer to section 2.2.1)
3. Remove the 5 screws which fasten the condenser.
4. After discharging the refrigerant completely into a Freon™ Recovery System, unbrazed the interconnecting tube at the condenser connections.
5. Remove the condenser.
6. Re-install the components by referring to the notes – on pages 13-14. (See Fig. 16)

2.4.2 EVAPORATOR

1. Remove the cabinet. (Refer to section 2.1.2)
2. Discharge the refrigerant completely – into a Freon™ Recovery System.
3. Remove the 2 screws which fasten the evaporator at the left side and the right side.
4. Move the evaporator sideward carefully and then unbrazed the interconnecting tube at the evaporator connectors.
5. Remove the evaporator.
6. Re-install the components by referring to the notes – on pages 13-14. (See Fig. 17)

2.4.3 CAPILLARY TUBE

1. Remove the cabinet. (Refer to section 2.1.2)
2. After discharging the refrigerant completely – into a Freon™ Recovery System, unbrazed the interconnecting tube at the capillary tube.
3. Remove the capillary tube.
4. Re-install the components by referring to the notes – on page 13-14.

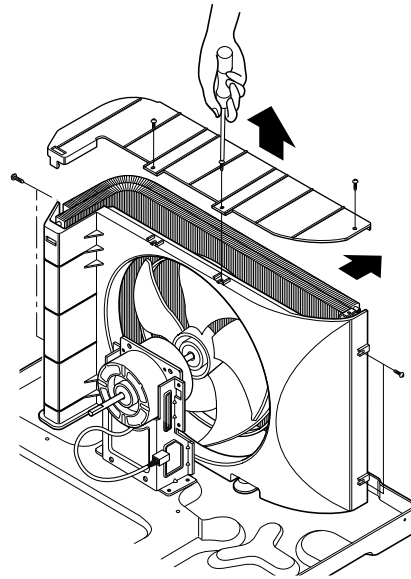


Figure 16

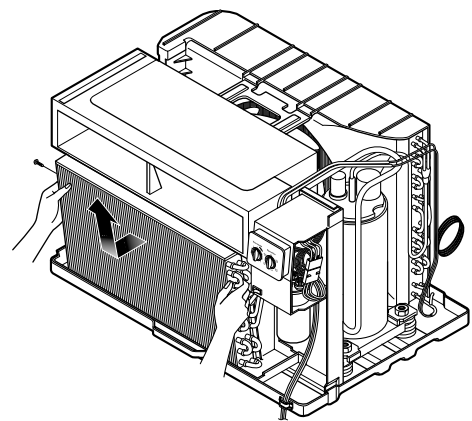


Figure 17

NOTES

— Replacement of the refrigeration cycle.

1. When replacing the refrigeration cycle, be sure to discharge the refrigerant system using a Freon™ recovery System.
If there is no valve to attach the recovery system, install one (such as a WATCO A-1) before venting the Freon™. Leave the valve in place after servicing the system.
2. After discharging the unit completely, remove the desired component, and unbrace the pinch-off tubes.
3. Solder service valves into the pinch-off tube ports, leaving the valves open.
4. Solder the pinch-off tubes with Service valves.
5. Evacuate as follows.
 - 1) Connect the vacuum pump, as illustrated Fig. 18A.
 - 2) Start the vacuum pump, slowly open manifold valves A and B with two full turns counterclockwise and leave the valves closed. The vacuum pump is now pulling through valves A and B up to valve C by means of the manifold and entire system.

CAUTION

If high vacuum equipment is used, just crack valves A and B for a few minutes, then open slowly with the two full turns counterclockwise. This will keep oil from foaming and being drawn into the vacuum pump.

- 3) Operate the vacuum pump for 20 to 30 minutes, until 600 microns of vacuum is obtained. Close valves A and B, and observe vacuum gauge for a few minutes. A rise in pressure would indicate a possible leak or moisture remaining in the system. With valves A and B closed, stop the vacuum pump.
- 4) Remove the hose from the vacuum pump and place it on the charging cylinder. See Fig. 18B. Open valve C.
Discharge the line at the manifold connection.
- 5) The system is now ready for final charging.

6. Recharge as follows :

- 1) Refrigeration cycle systems are charged from the High-side. If the total charge cannot be put in the High-side, the balance will be put in the suction line through the access valve which you installed as the system was opened.
- 2) Connect the charging cylinder as shown in Fig. 18B. With valve C open, discharge the hose at the manifold connection.
- 3) Open valve A and allow the proper charge to enter the system. Valve B is still closed.
- 4) If more charge is required, the high-side will not take it. Close valve A.
- 5) With the unit running, open valve B and add the balance of the charge.
 - a. Do not add the liquid refrigerant to the Low-side.
 - b. Watch the Low-side gauge; allow pressure to rise to 30 lbs.
 - c. Turn off valve B and allow pressure to drop.
 - d. Repeat steps B and C until the balance of the charge is in the system.
- 6) When satisfied the unit is operating correctly, use the pinch-off tool with the unit still running and clamp on to the pinch-off tube. Using a tube cutter, cut the pinch-off tube about 2 inches from the pinch-off tool. Use sil-fos solder and solder pinch-off tube closed. Turn off the unit, allow it to set for a while, and then test the leakage of the pinch-off connection.

Equipment needed: Vacuum pump, Charging cylinder, Manifold gauge, Brazing equipment. Pinch-off tool capable of making a vapor-proof seal, Leak detector, Tubing cutter, Hand Tools to remove components, Service valve.

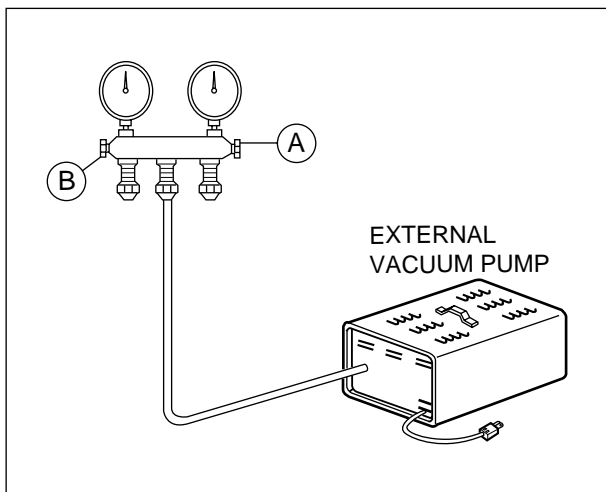
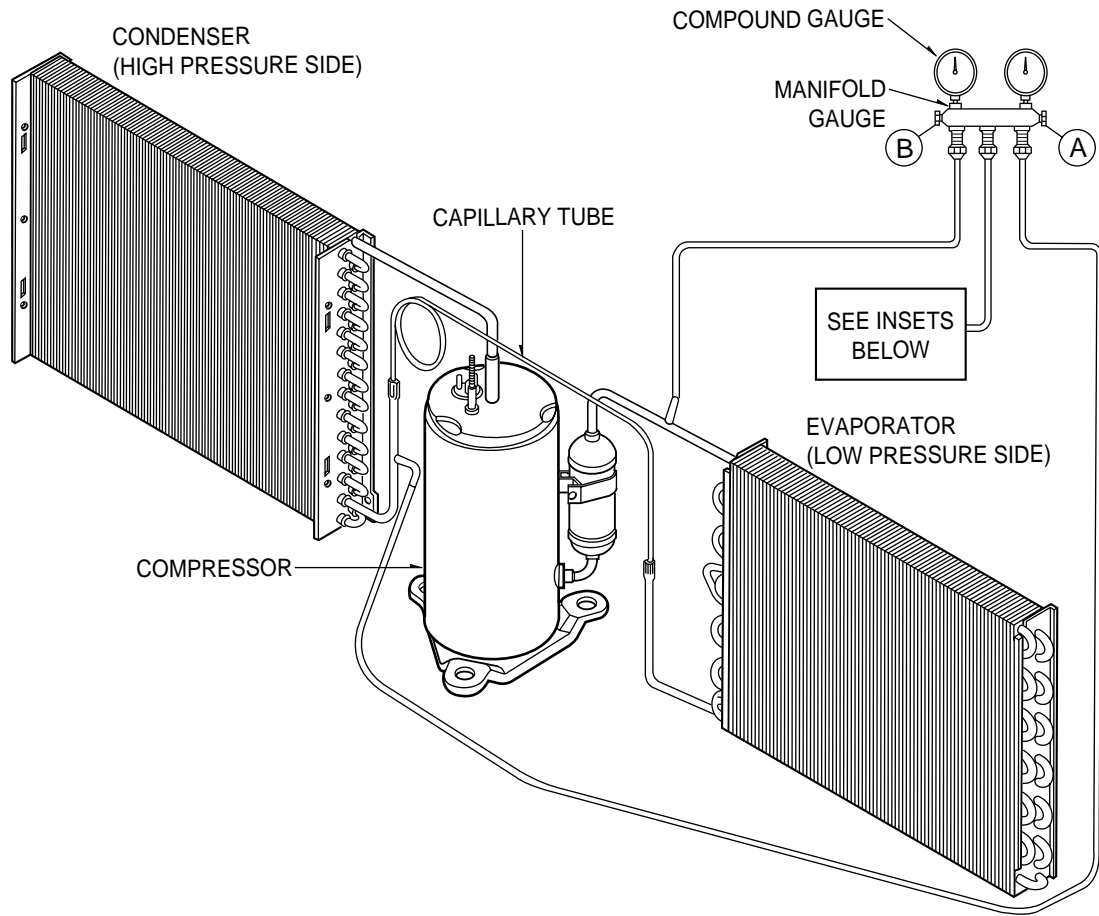


Figure 18A-Pulling Vacuum

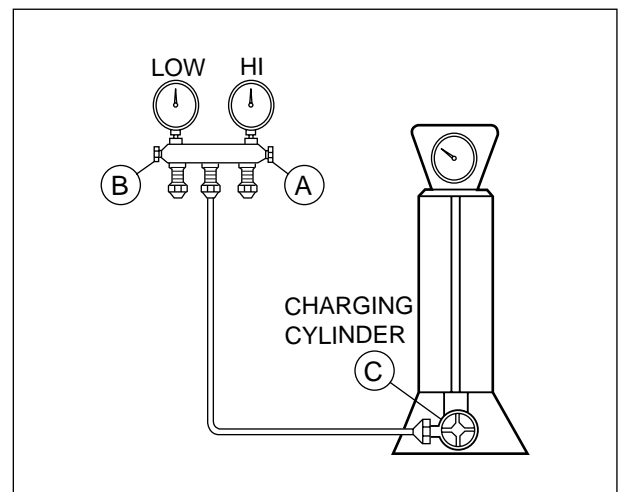


Figure 18B-Charging

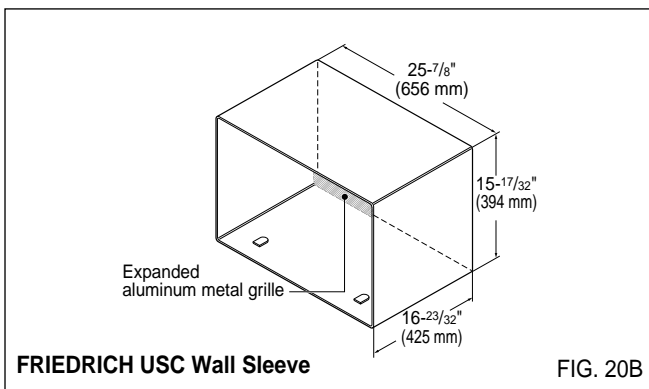
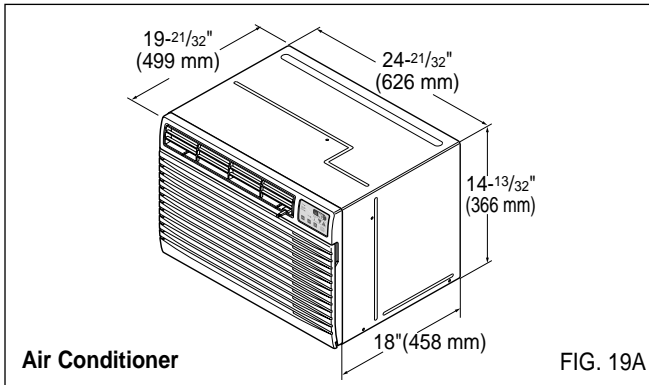
3. INSTALLATION

3.1 INSTALLATION REQUIREMENTS

If you use an existing wall sleeve, you should measure its dimensions.

Install the new air conditioner according to these installation instructions to achieve the best performance. All wall sleeves used to mount the new air conditioner must be in good structural condition and have a compatible rear grille in order to securely attach the new air conditioner. (FIG. 19A)

With the **FRIEDRICH USC sleeve**, you can maintain the best performance of the new air conditioner. (FIG. 19B)

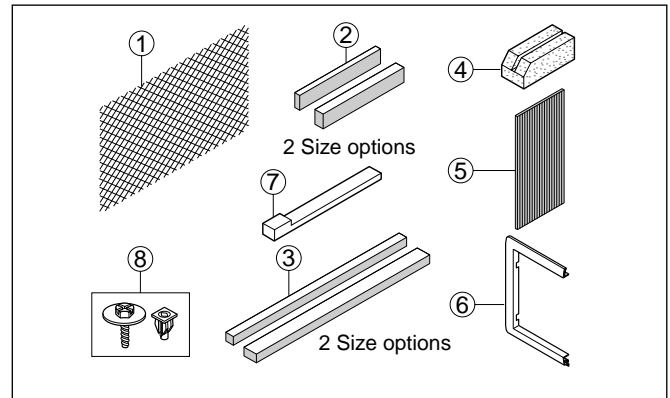


ELECTRICAL SERVICE

Check your available electrical service. The power supply available must be the same as that shown on the unit nameplate (found on left side of cabinet).

All models are equipped with a 3-prong service plug to provide proper service and safe positive grounding. Do not change plug in any way. Do not use an adapter plug. If your present wall outlet does not match your plug, call a qualified electrician to make the necessary corrections. SAVE CARTON for storage and this OWNER'S MANUAL for future reference. The carton is the best way to store unit during winter or when not in use.

INSTALLATION HARDWARE



ITEM	NAME OF PARTS	Q'TY
①	PLASTIC GRILLE	1
②	HORIZONTAL INSULATION STRIPS	2
③	AROUND INSULATION STRIPS	2
④	SUPPORT BLOCK	2
⑤	BAFFLE	1
⑥	TRIM FRAME	2
⑦	SHIM	2
⑧	PLASTIC NUTS AND WASHER SCREWS	4

⚠ CAUTION

To avoid risk of personal injury, property damage, or product damage due to the weight of this device and sharp edges that may be exposed:

- Air conditioners covered in this manual pose an excessive weight hazard. Two or more people are needed to move and install the unit. To prevent injury or strain, use proper lifting and carrying techniques when moving unit.
- Carefully inspect location where air conditioner will be installed. Be sure it will support the weight of the unit over an extended period of time.
- Handle air conditioner with care. Wear protective gloves whenever lifting or carrying the unit. AVOID the sharp metal fins of front and rear coils.
- Make sure air conditioner does not fall during installation.

REQUIRED TOOLS:

- Tight Fitting gloves
- Standard screwdriver
- Phillips screwdriver
- Pliers
- Sharp knife
- 3/8-inch open end wrench or adjustable wrench
- 1/4-inch hex socket and ratchet
- Tape measure
- Electric drill
- 1/4-inch drill bit

3.2 INSTALLATION

CAUTION

We strongly recommend the removal of the old wall sleeve and the installation of a new FRIEDRICH USC Wall Sleeve.

If you decide to keep the existing wall sleeve, you have to redirect the louvers at the back of the wall sleeve illustration. The use of pliers is recommended. If you DO NOT redirect, you run the risk of poor performance or product failure. This is not covered under the terms of the FRIEDRICH warranty.

- Pick a location which will allow the conditioned air to blow into the area you want. Good installation with special attention to the proper position of the unit will lessen the chance that service will be needed.

ITEMS IN INSTALLATION HARDWARE

You may not need all parts in the kit. Discard unused parts

ITEM (inches)	Qty.	
Plastic grille	26 ³ / ₄ x 16 ¹ / ₂	1
Horizontal Insulation Strips	1 ³ / ₈ x 5 ⁵ / ₈ x 27 ³ / ₁₆	1
	1 ³ / ₈ x 1 ³ / ₈ x 27 ³ / ₁₆	1
Around Insulation Strips	1 ³ / ₈ x 3 ³ / ₄ x 61 ¹ / ₂	1
	1 ³ / ₈ x 1 ³ / ₈ x 61 ¹ / ₂	1
Support Block	1 ³ / ₄ x 1 ³ / ₈ x 4 ⁵ / ₁₆	2
Baffle	14 x 4 ¹ / ₂ x 1 ¹ / ₈	1
Shim	13 x 1 x 3 ³ / ₄	2
Trim Frame		2
Washer Screw		4
Nuts(Plastic)		4

HOW TO INSTALL

- 1 Before installing the unit, identify the existing wall sleeve from the list below.

Brand	Wall Sleeve Dimensions (inches)		
	Width	Height	Depth
White-Westinghouse Frigidaire Carrier (52F series)	25-1/2	15-1/4	16, 17-1/2 or 22
General Electric /Hotpoint	26	15-5/8	16-7/8
Whirlpool	25-7/8	16-1/2	17-1/8 or 23
Fedders/Emerson Friedrich WSC	27	16-3/4	16-3/4 or 19-3/4
FRIEDRICH USC	25-7/8	15-17/32	16-23/32
Emerson/Fedders	26-3/4	15-3/4	15
Carrier (51S Series)	25-3/4	16-7/8	18-5/8

NOTE: All wall sleeves used to mount the new Air Conditioner must be in sound structural condition and have a compatible rear grille that securely attaches to sleeve, or rear flange that serves as a stop for the Air Conditioner.

- 2 Remove old air conditioner from existing wall sleeve.
- 3 Clean the interior of an existing sleeve. (Do not disturb existing seals or gaskets.)
- 4 Wall sleeve must be securely fastened in wall before installing the air conditioner. Use the nails or screws through the sides of the sleeve into wall, if needed. Repaint sleeve if needed.
- 5 Prepare the wall sleeve for installation of the unit. If you plan to use your existing wall sleeve, and it is not the FRIEDRICH USC sleeve, use procedure B or C below.

Procedure	Brand	Depth(inches)
A	FRIEDRICH USC	16-23/32
B	White-Westinghouse Frigidaire Carrier (52F series)	16, 17-1/2 or 22
	General Electric /Hotpoint	16-7/8
	Whirlpool Carrier (51S series)	17-1/8 or 23
	Fedders/Emerson	16-3/4 or 19-3/4
C	Emerson/Fedders	15

- 6 Install new unit into wall sleeve.

CAUTION: When installation is completed, replacement unit **MUST** have a rearward slope as shown.

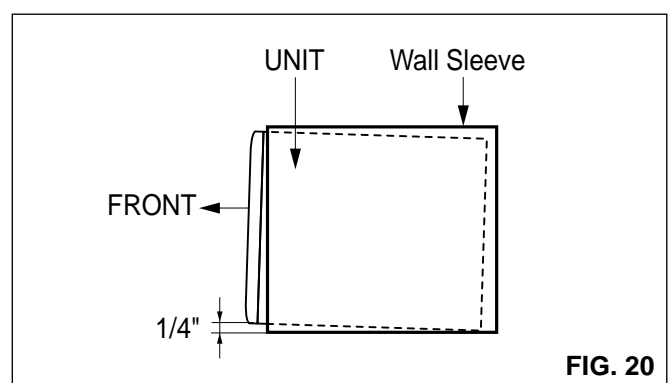


FIG. 20

3.3 PROCEDURE A

- 1 If you are using a new USC sleeve in conjunction with your unit, skip to step 3. Otherwise, install the plastic grille from the kit. Cut the plastic grille to fit the rear opening of the existing sleeve. Place the plastic grille to the inside of the wall sleeve at the rear flange.

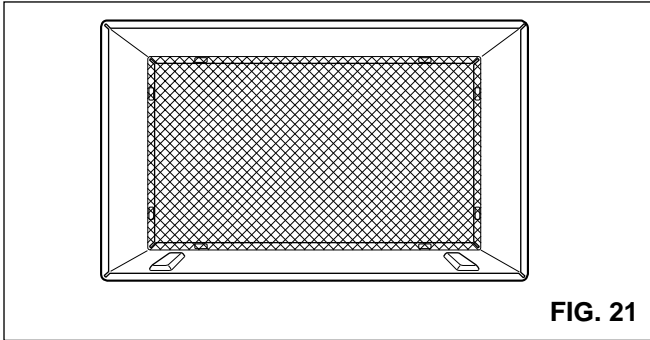


FIG. 21

- 2 Fasten the 4 washer screws to secure the grille to the wall sleeve. If you need plastic nuts to mount plastic grille to the inside of the wall sleeve, there are plastic nuts in the installation kit. The nuts are installed from the inside of the sleeve and are pressed into the square holes of the rear flanges.

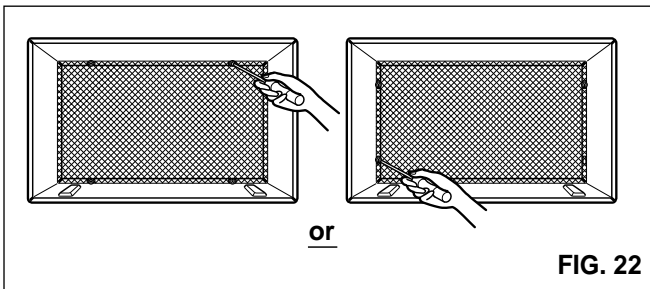


FIG. 22

- 3 Ensure that the inside of the sleeve is thoroughly clean. Remove the backing from the Horizontal Insulation strip $1\frac{3}{8} \times \frac{3}{8} \times 27\frac{3}{16}$ and attach that to the inside bottom of the sleeve as shown below. Remove the backing from the Around Insulation strip $1\frac{3}{8} \times \frac{3}{4} \times 61\frac{1}{2}$ and attach that to the inside front of the sleeve as shown below.

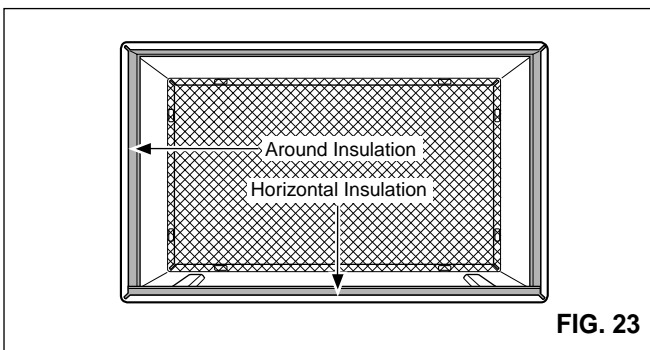


FIG. 23

- 4 Install the new unit into the wall sleeve.

- 5 To assemble trim, snap the tab of each piece into the slot of the other piece as shown below. Slide trim over the front of the air conditioner until trim is flush with sleeve as shown below.

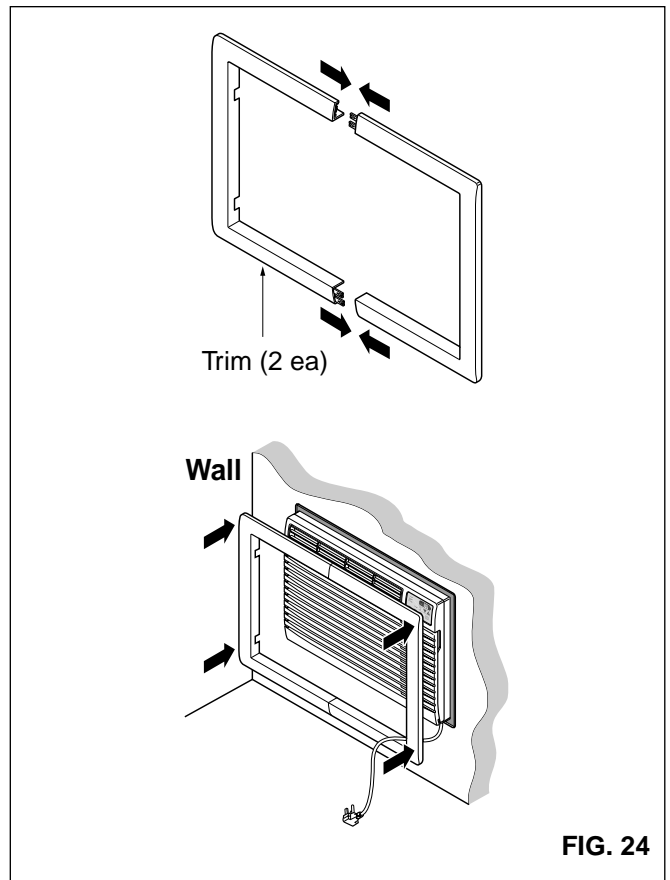


FIG. 24

CAUTION

- Air conditioners covered in this manual pose an excessive weight hazard. Two or more people are needed to move and install the unit. To prevent injury or strain, use proper lifting and carrying techniques when moving unit.
- When handling the air conditioner, be careful to avoid cuts from sharp metal fins on front and rear coils.
- Make sure air conditioner does not fall during removal.

3.4 PROCEDURE B

- 1 Redirect the louvers at the back of the wall sleeve to 60° angle as shown in the FIG 25. The use of pliers is recommended.

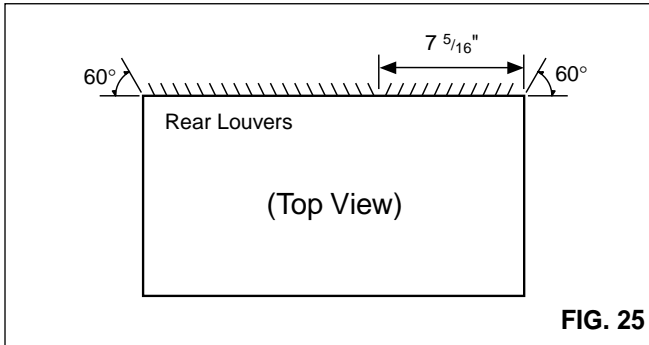


FIG. 25

- 2 If the wall sleeve already has a rear grille, skip to step 4. If the wall sleeve does not have a rear grille or louvered panel, install the plastic grille from the kit. Cut the plastic grille to 25-1/2" wide and 15-1/4" high. Place the plastic grille to the inside of the wall sleeve at the rear flange.

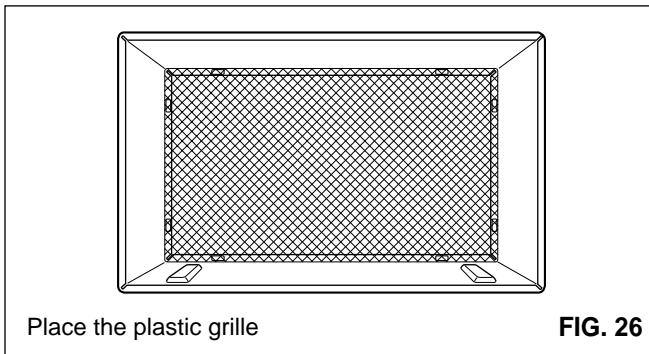


FIG. 26

- 3 Fasten the 4 washer screws to secure the grille to the wall sleeve. If you need plastic nuts to mount plastic grille to the inside of the wall sleeve, there are plastic nuts in the installation kit. The nuts are installed from the inside of the sleeve and are pressed into the square holes of the rear flanges.

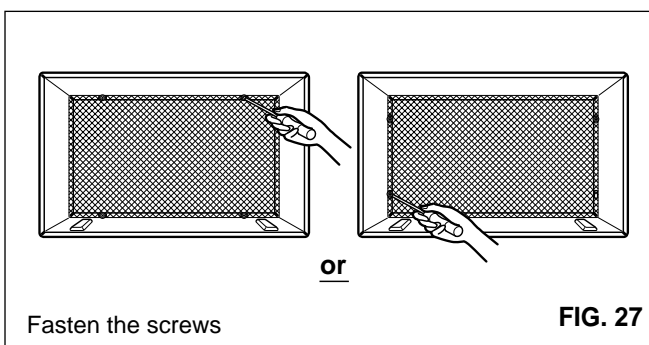


FIG. 27

- 4 Remove the backing from the Horizontal Insulation strip $1\frac{3}{8} \times \frac{5}{8} \times 27\frac{3}{16}$ and attach that to the inside bottom of the sleeve as shown below. Remove the backing from the Around Insulation strip $1\frac{3}{8} \times \frac{3}{4} \times 61\frac{1}{2}$ and attach that to the inside front of the sleeve as shown below.

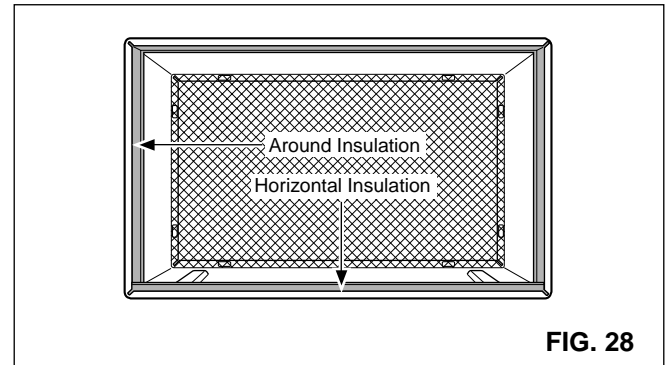


FIG. 28

- 5 If the depth of your existing wall sleeve is less than or equal to 18", skip to step 7. Otherwise, cut the baffles and the support blocks according to length "A" in the table below.

Depth "D" of the existing wall sleeve (inches)	Length "A" (inches)
$18 < D \leq 18\text{-}\frac{5}{8}$	$\frac{3}{4}$
$18\text{-}\frac{5}{8} < D \leq 19\text{-}\frac{3}{4}$	$1\text{-}\frac{3}{4}$
$19\text{-}\frac{3}{4} < D \leq 22$	4

FIG. 29

- 6 Remove the backing from the support blocks and attach them to the inside of the wall sleeve as shown FIG 30. Slide the baffle into slots of the support blocks.

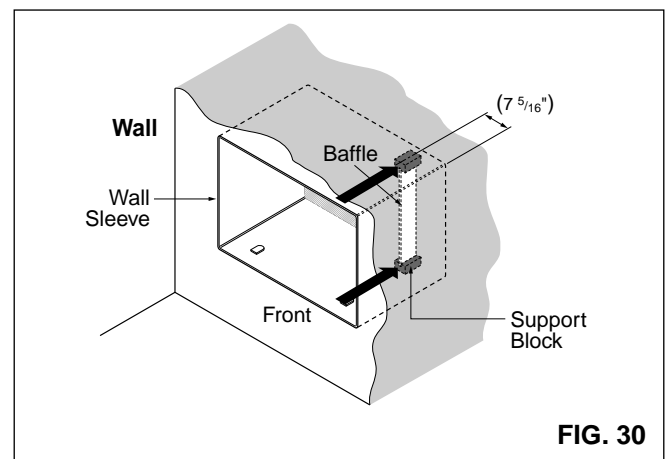
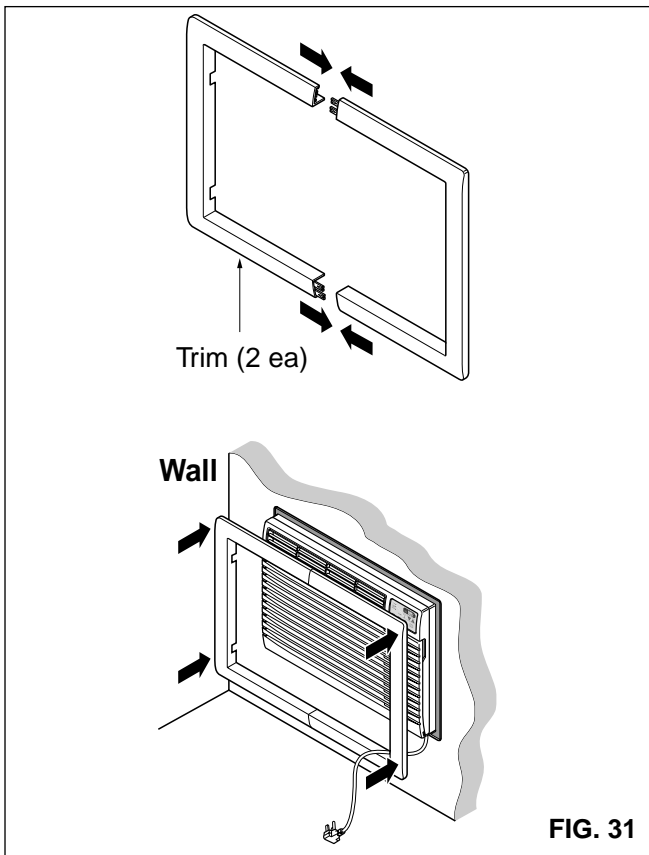


FIG. 30

- 7 Install the new unit into the wall sleeve.

PROCEDURE B

- 8** To assemble trim, snap the tab of each piece into the slot of the other piece as shown below. Slide trim over the front of the air conditioner until trim is flush with sleeve as shown below.



CAUTION

- Air conditioners covered in this manual pose an excessive weight hazard. Two or more people are needed to move and install the unit. To prevent injury or strain, use proper lifting and carrying techniques when moving unit.
- When handling the air conditioner, be careful to avoid cuts from sharp metal fins on front and rear coils.
- Make sure air conditioner does not fall during removal.

3.5 PROCEDURE C

- 1 Redirect the louvers at the back of the wall sleeve to 60° angle as shown in the FIG 32. The use of pliers is recommended.

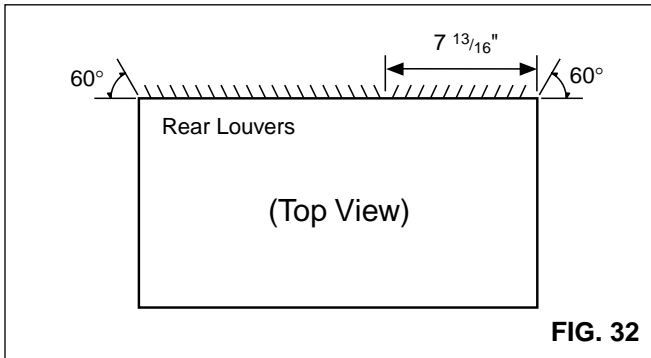
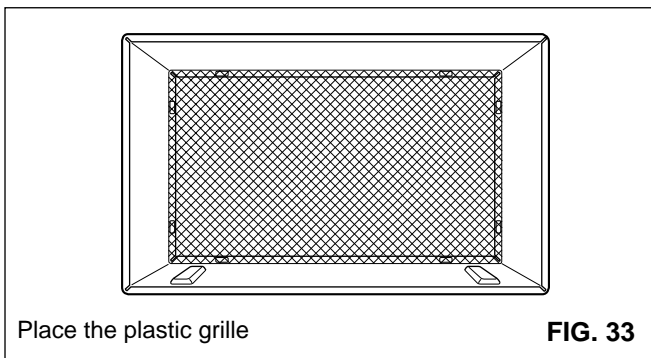


FIG. 32

- 2 If the wall sleeve already has a rear grille, skip to step 4. If the wall sleeve does not have a rear grille or louvered panel, install the plastic grille from the kit. Cut the plastic grille to 26-1/2" wide and 15-1/2" high. Place the plastic grille to the inside of the wall sleeve at the rear flange.



- 3 Fasten the 4 washer screws to secure the grille to the wall sleeve. If you need plastic nuts to mount plastic grille to the inside of the wall sleeve, there are plastic nuts in the installation kit. The nuts are installed from the inside of the sleeve and are pressed into the square holes of the rear flanges.

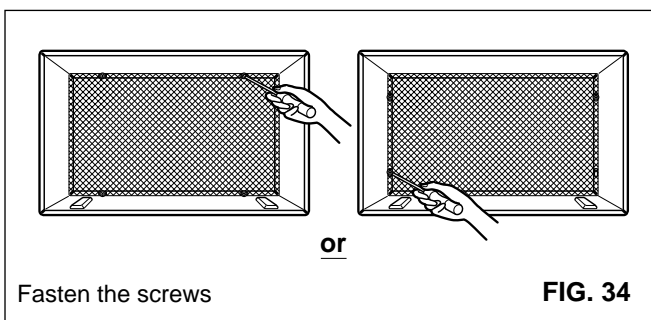


FIG. 34

- 4 Remove the backing from the Horizontal Insulation strip 1 3/8 x 1 3/8 x 27 3/16 and attach that to the inside bottom of the sleeve as shown below. Remove the backing from the Around Insulation strip 1 3/8 x 1 3/8 x 61 1/2 and attach that to the inside front of the sleeve as shown below.

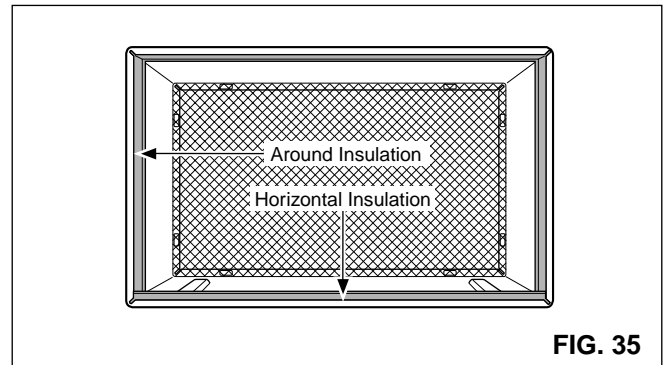


FIG. 35

- 5 If the depth of your existing sleeve is less than or equal to 18", skip to step 7. Otherwise, cut the baffles and the support blocks according to Length "A" in the table below.

Depth "D" of the existing wall sleeve (inches)	Length "A" (inches)
$18 < D \leq 18\text{-}5/8$	$3/4$
$18\text{-}5/8 < D \leq 19\text{-}3/4$	$1\text{-}3/4$
$19\text{-}3/4 < D \leq 22$	4

FIG. 36

- 6 Remove the backing from the support blocks and attach them to the inside of the wall sleeve as shown FIG 37. Slide the baffle into slots of the support blocks

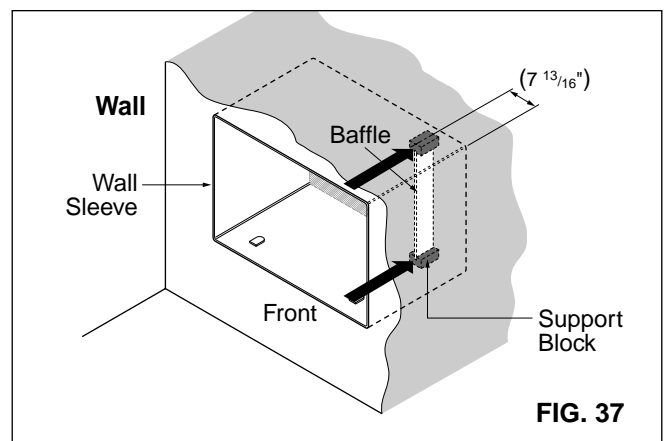
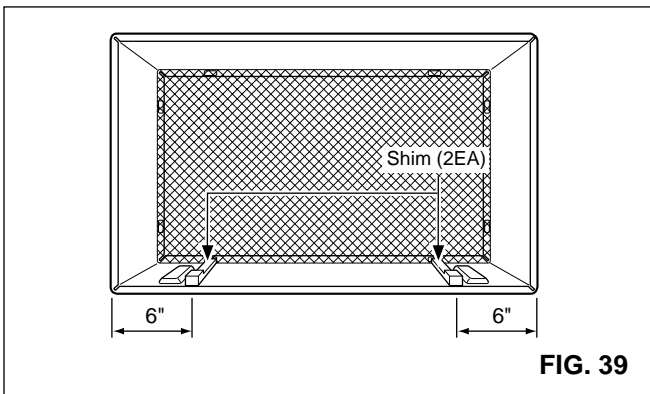
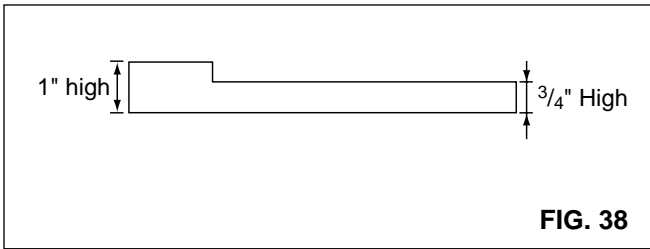


FIG. 37

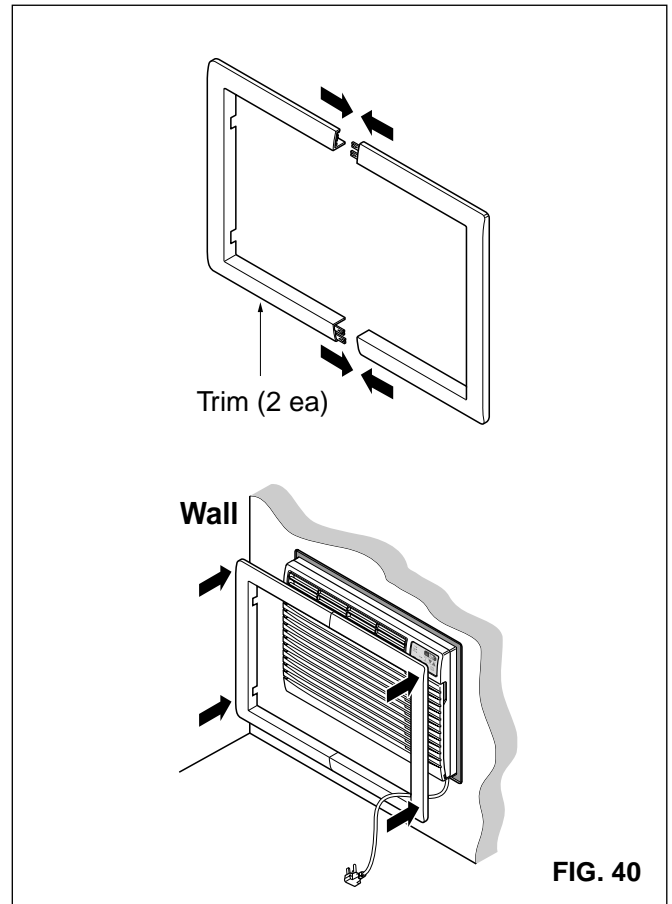
PROCEDURE C

- 7** Remove the backing from the 13" shim strips and attach them as shown below in Fig. 39. The higher portion of shim is to be placed in front of the rib on the base of wall sleeve.



- 8** Install the new unit into the wall sleeve

- 9** To assemble trim, snap the tab of each piece into the slot of the other piece as shown below. Slide trim over the front of the air conditioner until trim is flush with sleeve as shown below.

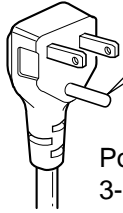
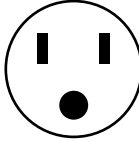


! CAUTION

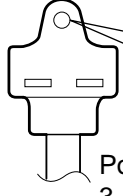


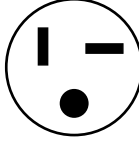
- Air conditioners covered in this manual pose an excessive weight hazard. Two or more people are needed to move and install the unit. To prevent injury or strain, use proper lifting and carrying techniques when moving unit.
- When handling the air conditioner, be careful to avoid cuts from sharp metal fins on front and rear coils.
- Make sure air conditioner does not fall during removal.

3.4 ELECTRICAL REQUIREMENTS

3.4.1 ELECTRICAL DATA (FOR 115V MODEL)

Line Cord Plug	Use Wall Receptacle	Power Supply
 <p>Power supply cord with 3-prong grounding plug</p>	<p>Parallel type</p>  <p>Standard 125V, 3-wire grounding receptacle rated 15A, 125V AC</p>	<p>Use 15 AMP time delay fuse or 15 AMP circuit breaker.</p>
<p>USE OF EXTENSION CORDS</p> <p>Because of potential safety hazards, we strongly discourage the use of an extension cord. However, if you wish to use an extension cord, use a CSA certified/UL-listed 3-wire (grounding) extension cord, rated 15A, 125V.</p>		

3.4.2 ELECTRICAL DATA (FOR 230/208V MODEL)

Line Cord Plug	Use Wall Receptacle	Power Supply
 <p>Power supply cord with 3-prong grounding plug</p>	<p>Tandem type</p>  <p>Standard 250V, 3-wire grounding receptacle rated 15A, 250V AC</p>	<p>Use 15 AMP time delay fuse or circuit breaker.</p>
 <p>Power supply cord with 3-prong grounding plug</p>	<p>Perpendicular type</p>  <p>Standard 250V, 3-wire grounding receptacle rated 20A, 250V AC</p>	<p>Use 20 AMP time delay fuse or circuit breaker. Refer to the nameplate for correct fusing.</p>

All wiring should be made in accordance with local electrical codes and regulations.

NOTE : Aluminum house wiring may pose special problems. Consult a qualified electrician.

3.4.3 ELECTRICAL SAFETY

IMPORTANT GROUNDING INSTRUCTIONS

Air conditioner has a three-prong grounding plug on its power supply cord, which must be plugged into properly grounded three-prong wall receptacle for your protection against possible shock hazard.

FUSE – Use a time-delay fuse or circuit breaker. Refer to the nameplate for proper power supply requirements.

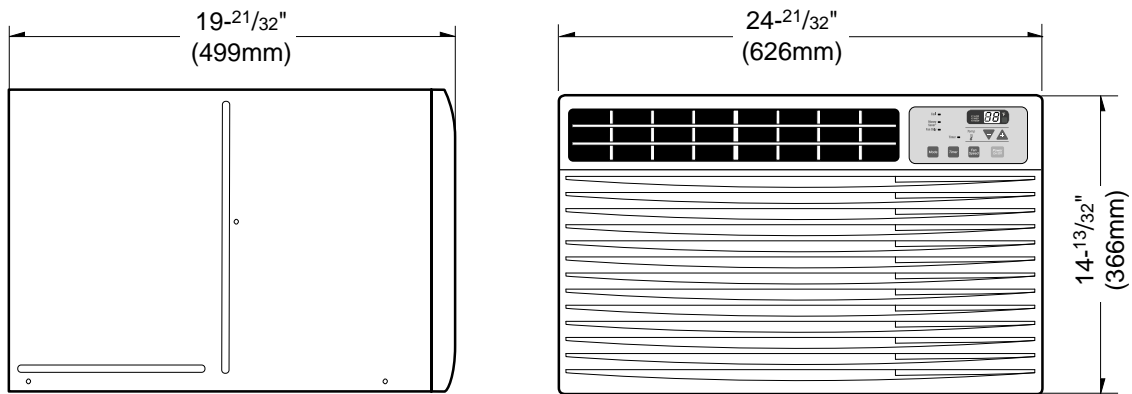
208, 230, and 208/230 VOLT UNITS

These units are equipped with a three-prong grounding plug on the power supply cord, which must be plugged into a matching properly grounded three-prong wall receptacle for your protection against possible shock hazard. If such an outlet is not present, one must be installed by a qualified electrician in accordance with the National Electrical Code and local codes and ordinances.

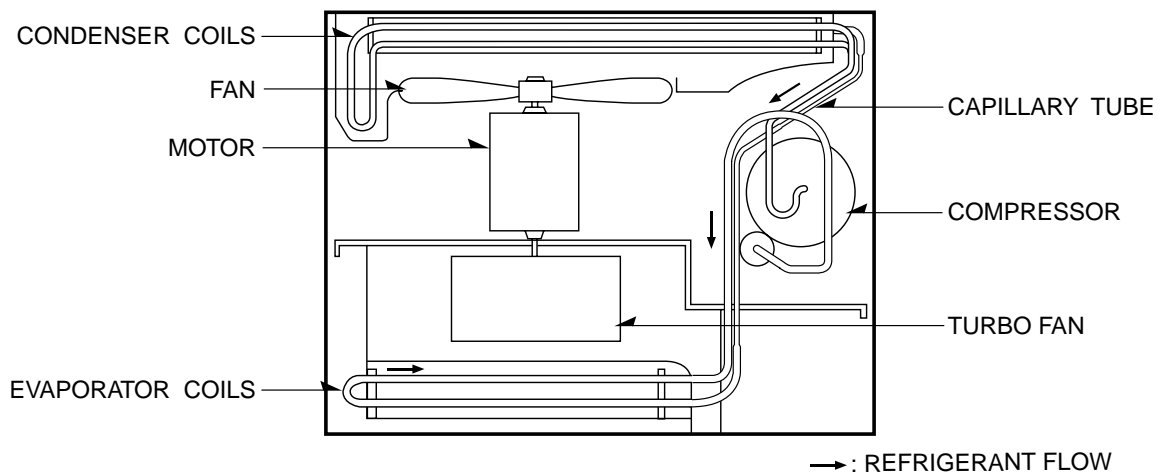
NOTE: DO NOT USE AN EXTENSION CORD on 208, 230, and 208/230 Volt units.

4. TROUBLESHOOTING GUIDE

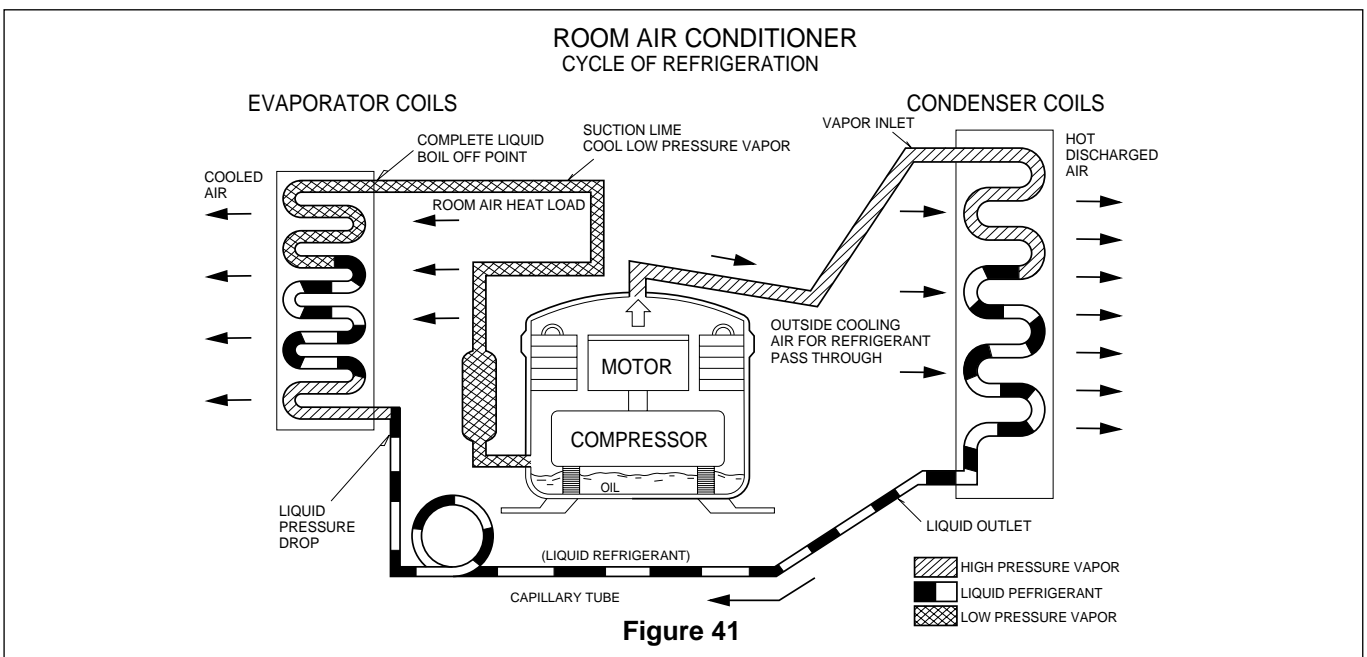
4.1 OUTSIDE DIMENSIONS



4.2 PIPING SYSTEM



Following is a brief description of the important components and their functions in the refrigeration system. Refer to Fig. 41 to follow the refrigeration cycle and the flow of the refrigerant in the cooling cycle.

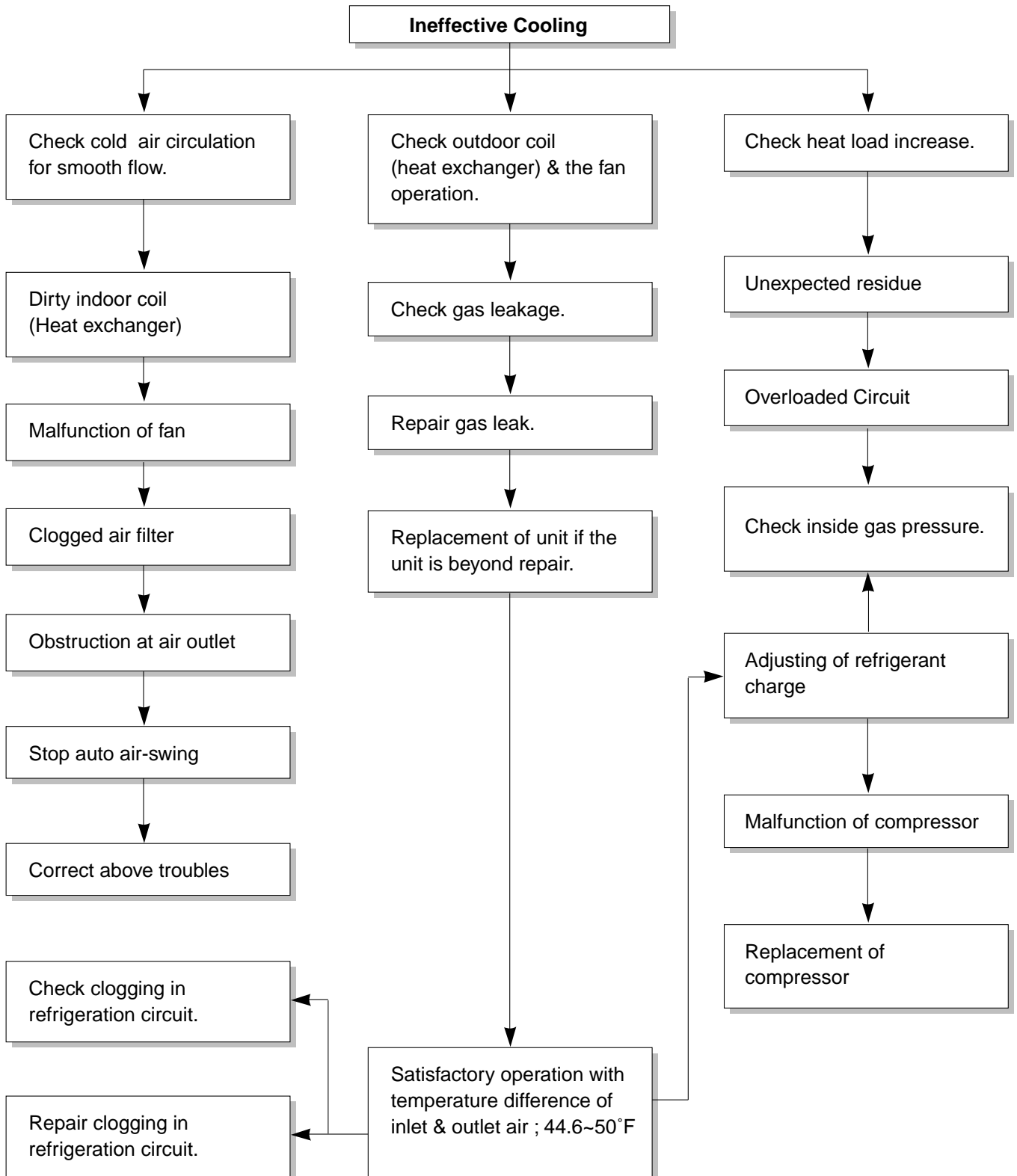


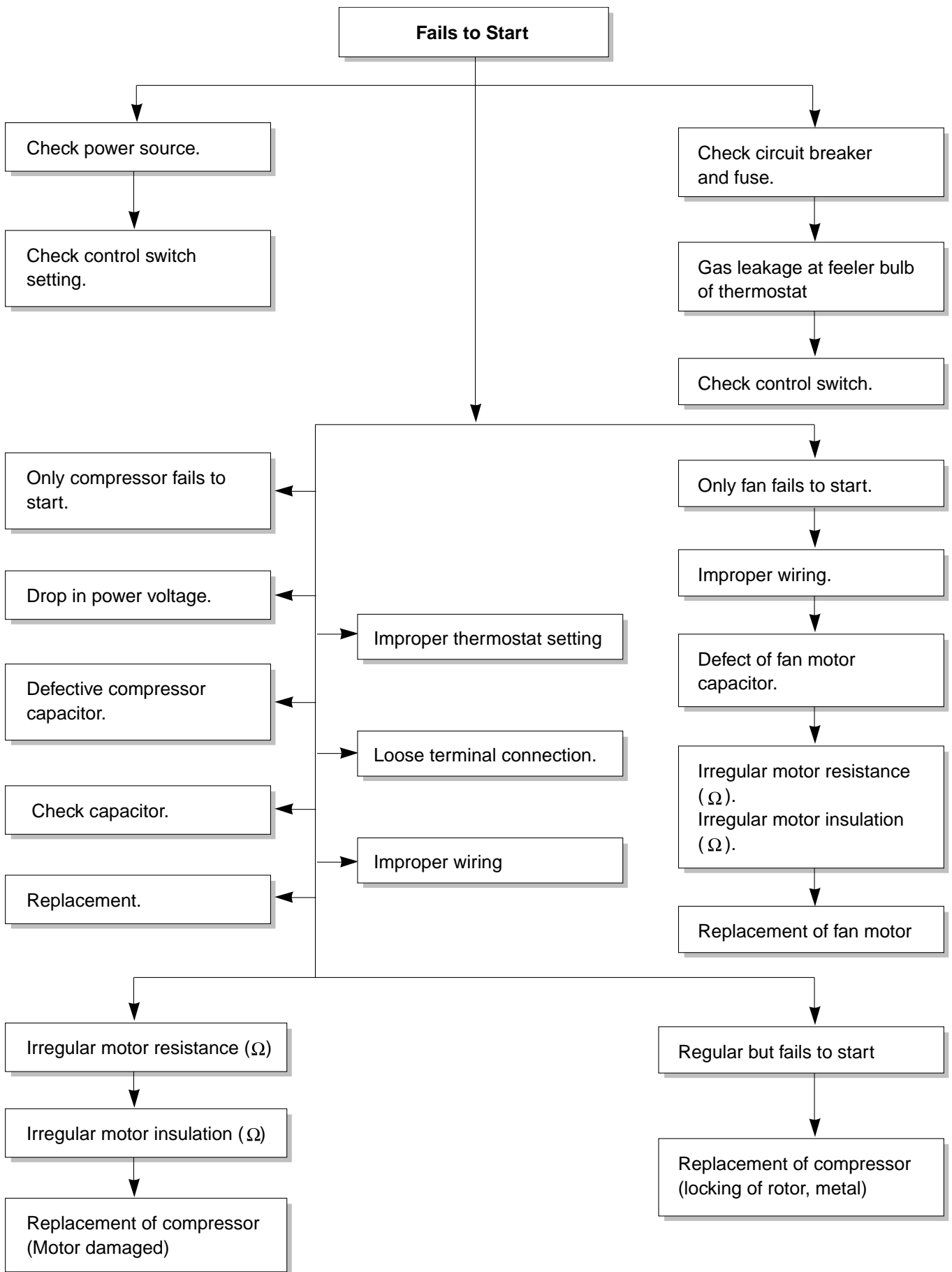
4.3 TROUBLESHOOTING GUIDE

In general, possible trouble is classified in two causes.

The one is called Starting Failure which is caused from an electrical defect, and the other is Ineffective Air Conditioning caused by a defect in the refrigeration circuit and improper application.

Unit is running but cooling is ineffective





COMPLAINT	CAUSE	REMEDY
Fan motor will not run.	No power	Check voltage at outlet. Correct if none.
	Power supply cord	Check voltage to rotary switch. If none, check power supply cord. Replace cord if circuit is open.
	Rotary switch	Check switch continuity. Refer to wiring diagram for terminal identification. Replace switch if defective.
	Wire disconnected or connection loose	Connect wire. Refer to wiring diagram for terminal identification. Repair or replace loose terminal.
	Capacitor (Discharge capacitor before testing.)	Test capacitor. Replace if not within $\pm 10\%$ of manufacturer's rating. Replace if shorted, open, or damaged.
	Will not rotate	Fan blade hitting shroud or blower wheel hitting scroll. Realign assembly. Units using slinger ring condenser fans must have $\frac{1}{4}$ to $\frac{5}{16}$ inch clearance to the base. If it is hitting the base, shim up the bottom of the fan motor with mounting screw(s). Check fan motor bearings; if motor shaft will not rotate, replace the motor.
Fan motor runs intermittently	Revolves on overload.	Check voltage. See limits on page 27. If not within limits, call an electrician. Test capacitor. Check bearings. Does the fan blade rotate freely? If not, replace fan motor. Pay attention to any change from high speed to low speed. If the speed does not change, replace the motor.
Fan motor noise.	Grommets	Check grommets; if worn or missing, replace them.
	Fan	If cracked, out of balance, or partially missing, replace it.
	Turbo fan	If cracked, out of balance, or partially missing, replace it.
	Loose set screw	Tighten it.
	Worn bearings	If knocking sounds continue when running or loose, replace the motor. If the motor hums or noise appears to be internal while running, replace motor.

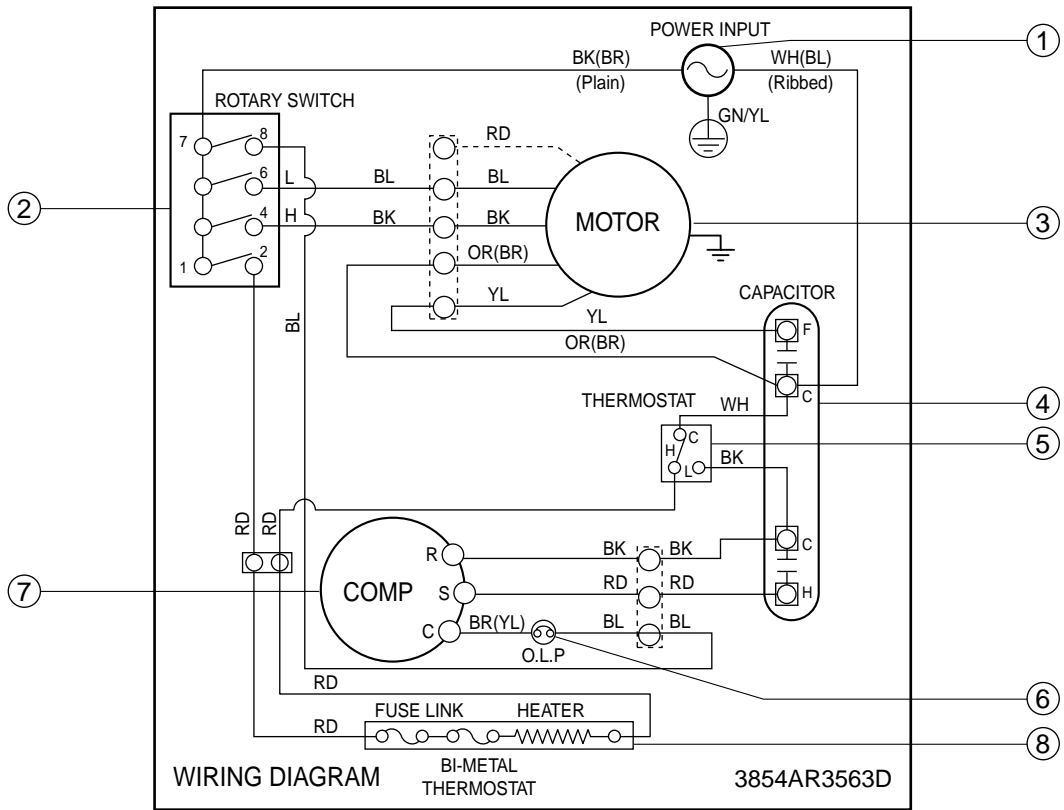
COMPLAINT	CAUSE	REMEDY
Compressor will not run, but fan motor runs.	Voltage	Check voltage. See the limits on the preceding page. If not within limits, call an electrician.
	Wiring	Check the wire connections, if loose, repair or replace the terminal. If wires are off, refer to wiring diagram for identification, and replace. Check wire locations. If not per wiring diagram, correct.
	Rotary	Check for continuity, refer to the wiring diagram for terminal identification. Replace the switch if circuit is open.
	Thermostat	Check the position of knob. If not at the coldest setting, advance the knob to this setting and restart unit. Check continuity of the thermostat. Replace thermostat if circuit is open.
	Capacitor (Discharge capacitor before servicing.)	Check the capacitor. Replace if not within $\pm 10\%$ of manufacturer's rating. Replace if shorted, open, or damaged.
	Compressor	Check the compressor for open circuit or ground. If open or grounded, replace the compressor.
	Overload	Check the compressor overload, if externally mounted. Replace if open. (If the compressor temperature is high, remove the overload, cool it, and retest.)

ROOM AIR CONDITIONER VOLTAGE LIMITS

NAME PLATE RATING	MINIMUM	MAXIMUM
115V	103.5V	126.5V
208/230V	187V	253V

COMPLAINT	CAUSE	REMEDY
Compressor cycles on overload.	Voltage	Check the voltage. See the limits on the preceding page. If not within limits, call an electrician.
	Overload	Check overload, if externally mounted. Replace if open. (If the compressor temperature is high, remove the overload, cool, and retest.)
	Fan motor	If not running, determine the cause. Replace if required.
	Condenser air flow restriction	Remove the cabinet. inspect the interior surface of the condenser; if restricted, clean carefully with a vacuum cleaner (do not damage fins) or brush. Clean the interior base before reassembling.
	Condenser fins (damaged)	If condenser fins are closed over a large area on the coil surface, head pressures will increase, causing the compressor to cycle. Straighten the fins or replace the coil.
	Capacitor	Test capacitor.
	Wiring	Check the terminals. If loose, repair or replace.
	Refrigerating system	Check the system for a restriction.
Insufficient cooling or heating	Air filter	If restricted, clean or replace.
	Exhaust damper door	Close if open.
	Unit undersized	Determine if the unit is properly sized for the area to be cooled.
Excessive noise.	Blower or fan	Check the set screw or clamp. If loose or missing, correct. If the blower or fan is hitting air guide, rearrange the air handling parts.
	Copper tubing	Remove the cabinet and carefully rearrange tubing not to contact cabinet, compressor, shroud, and barrier.

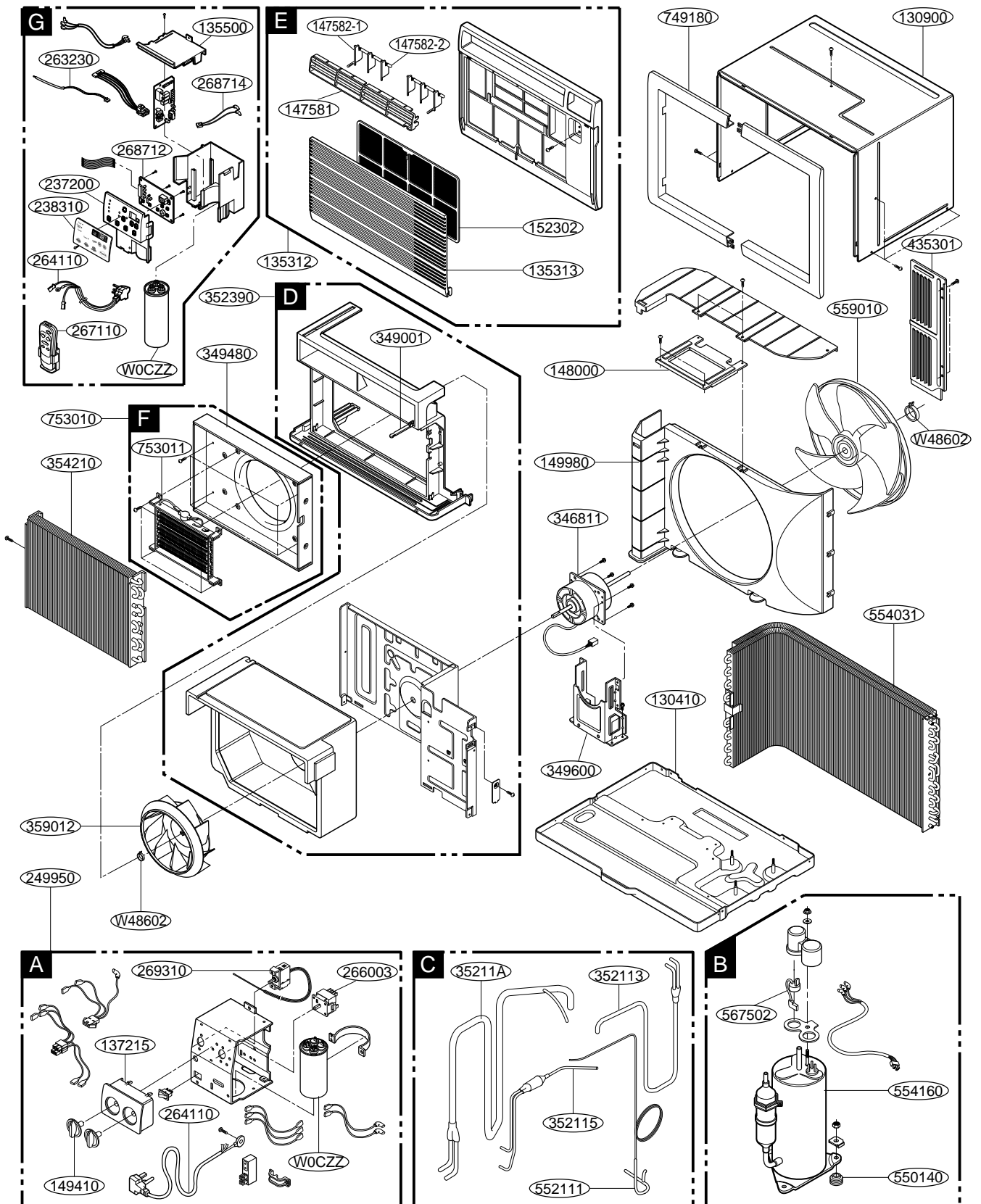
• MODEL : UE08A13A/UE10A33A/UE12A33A



NO.	DESCRIPTION	PART NO.			Q'TY PER SET	RE-MARKS
		UE08A13A	UE10A33A	UE12A33A		
264110	POWER CORD	67300004	67300003		1	
266003	ROTARY SWITCH	67300502			1	
346811	FAN MOTOR	67303019	67303010	67303008	1	
WOCZZ	CAPACITOR	67300714	67300711		1	
269310	THERMOSTAT	67300404			1	
554160	COMPRESSOR	67301625	67301623	67301624	1	
567502	OVERLOAD PROTECTOR	67301411	67301413	67500056	1	
753011	ELECTRIC HEATER	67310101	67310100		1	

6. EXPLODED VIEW

• MODEL: US08B10/US10B10/US12B10/US10B30/US12B30/UE08A13A/UE10A33A/UE12A33A



LOCATION NO,	Model	Friedrich #	LGE # & Description	Qty	
WOCZZ	UE 08A13A	67300714	0CZZA20007L CAPACITOR	1	EA
266003	UE08A13A	67300502	2H00598F SWITCH, ROTARY	1	EA
264110	UE08A13A	67300004	2H00677S POWER CORD ASSY	1	EA
269310	UE08A13A	67300404	2H01127D THERMOSTAT ASSY	1	EA
130410	UE08A13A	67302917	3041A10038B BASE ASSY SINGLE	1	EA
130900	UE08A13A	67303705	3090A20003B CABINET	1	EA
135313	UE08A13A	67306104	3530A20053A GRILLE, INLET	1	EA
435301	UE08A13A	67307203	3530A30007A GRILLE RT. & BACK STEEL	1	EA
135312	UE08A13A	67306006	3531A20121C GRILLE ASSY, FRONT(SNGL	1	EA
W48602	UE08A13A	67302500	3H02932B CLAMP SPRING	1	EA
346811	UE08A13A	67303019	4681A20044H MOTOR ASSY SINGLE	1	EA
147581	UE08A13A	67306203	4758A20008B LOUVER, HORIZONTAL	1	EA
147582-1	UE08A13A	67306252	4758A20009A LOUVER, VERTICAL	1	EA
147582-2	UE08A13A	67306253	4758A20009B LOUVER, VERTICAL	1	EA
148000	UE08A13A	67303903	4800A30002A BRACE	1	EA
349001	UE08A13A	67303503	4900A20001A DAMPER, VENTILATION	1	EA
749180	UE08A13A	67303504	4918A20001A TRIM	1	EA
149410	UE08A13A	67304102	4941A30005B KNOB ASSY	1	EA
349600	UE08A13A	67303607	4960A20005A MOUNT, MOTOR	1	EA
149980	UE08A13A	67303111	4998A10007B SHROUD	1	EA
550140	UE08A13A	67305001	4H00982E ISOLATOR CLAMP	1	EA
552111	UE08A13A	67302217	5211A20214R TUBE ASSY CAPLRY	1	EA
35211A	UE08A13A	67400174	5211A20498D TUBE ASY SUCTION SINGLE	1	EA
352113	UE08A13A	67400175	5211A30588G TUBE ASSY DISCHG SINGLE	1	EA
152302	UE08A13A	67304304	5230A20007A FILTER (MECH), A/C	1	EA
352390	UE08A13A	67302720	5239A10002F AIR GUIDE ASSY	1	EA
554031	UE08A13A	67303317	5403A20040R CONDENSER ASSY BENT	1	EA
554160	UE08A13A	67301625	5416A90007D COMPRESSOR	1	EA
354210	UE08A13A	67302416	5421A20071E EVAPORATOR ASSY FIRST	1	EA
359012	UE08A13A	67302608	5900A20009B FAN, TURBO	1	EA
559010	UE08A13A	67303202	5900AR1173A FAN BLADE	1	EA
567502	UE08A13A	67301411	6750A30001N OVERLOAD PROTECTOR	1	EA
753011	UE08A13A	67310101	5300A20003B HEATER, ELECTRIC	1	EA
554160	UE10A33A	67301623	2520UKCK2BA COMPRESSOR SET	1	EA
266003	UE10A33A	67300502	2H00598F SWITCH, ROTARY	1	EA
264110	UE10A33A	67300003	2H00677U POWER CORD ASSY	1	EA
269310	UE10A33A	67300404	2H01127D THERMOSTAT ASSY	1	EA
130410	UE10A33A	67302915	3041A10014V BASE ASSY SINGLE	1	EA
130900	UE10A33A	67303705	3090A20003B CABINET		
135313	UE10A33A	67306104	3530A20053A GRILLE, INLET		
435301	UE10A33A	67307203	3530A30007A GRILLE RT. & BACK STEEL	1	EA
135312	UE10A33A	67306005	3531A20121B GRILLE ASSY, FRONT(SNGL	1	EA
13550	UE10A33A	67300307	3550A20030B COVER	1	EA
137215	UE10A33A	67305504	3721A20049F PANEL ASSY, CONTROL	1	EA

LOCATION NO.	Model	Friedrich #	LGE # & Description	Qty	
W48602	UE10A33A	67302500	3H02932B CLAMP SPRING	1	EA
346811	UE10A33A	67303010	4681A20044E MOTOR ASSY, SINGLE	1	EA
147581	UE10A33A	67306203	4758A20008B LOUVER, HORIZONTAL	1	EA
147582-1	UE10A33A	67306252	4758A20009A LOUVER, VERTICAL	1	EA
147582-2	UE10A33A	67306253	4758A20009B LOUVER, VERTICAL	1	EA
148000	UE10A33A	67303903	4800A30002A BRACE	1	EA
349001	UE10A33A	67303503	4900A20001A DAMPER, VENTILATION	1	EA
749180	UE10A33A	67303504	4918A20001A TRIM	1	EA
149410	UE10A33A	67304102	4941A30005B KNOB ASSY	1	EA
349480	UE10A33A	67303406	4948A10006A ORIFICE	1	EA
349600	UE10A33A	67303607	4960A20005A MOUNT, MOTOR	1	EA
149980	UE10A33A	67303111	4998A10007B SHROUD	1	EA
550140	UE10A33A	67305001	4H00982E ISOLATOR CLAMP	1	EA
552111	UE10A33A	67302214	5211A20214L TUBE ASSY CAPILLARY	1	EA
152302	UE10A33A	67304304	5230A20007A FILTER (MECH), A/C	1	EA
753011	UE10A33A	67310100	5300A20003A HEATER, ELECTRIC	1	EA
554031	UE10A33A	67303316	5403A20040P CONDENSER ASSY BENT	1	EA
354210	UE10A33A	67302416	5421A20071E EVAPORATOR ASSY FIRST	1	EA
559010	UE10A33A	67303202	5900AR1173A FAN BLADE	1	EA
WOCZZ	UE10A33A	67300711	6120AR2359E CAPACITOR DRAWING	1	EA
567502	UE10A33A	67301413	6750U-L028A O.L.P.	1	EA
137215	UE12A33A	67305504	3721A20049F PANEL ASSY, CONTROL	1	EA
W48602	UE12A33A	67302500	3H02932B CLAMP SPRING	1	EA
346811	UE12A33A	67303008	4681A20041C MOTOR ASSEMBLY, SINGLE	1	EA
147581	UE12A33A	67306203	4758A20008B LOUVER, HORIZONTAL	1	EA
147582-1	UE12A33A	67306252	4758A20009A LOUVER, VERTICAL	1	EA
147582-2	UE12A33A	67306253	4758A20009B LOUVER, VERTICAL	1	EA
148000	UE12A33A	67303903	4800A30002A BRACE	1	EA
349001	UE12A33A	67303503	4900A20001A DAMPER, VENTILATION	1	EA
749180	UE12A33A	67303504	4918A20001A TRIM	1	EA
149410	UE12A33A	67304102	4941A30005B KNOB ASSY	1	EA
349480	UE12A33A	67303406	4948A10006A ORIFICE	1	EA
349600	UE12A33A	67303606	4960A20008A MOUNT, MOTOR	1	EA
149980	UE12A33A	67303111	4998A10007B SHROUD	1	EA
550140	UE12A33A	67305001	4H00982E ISOLATOR CLAMP	1	EA
552111	UE12A33A	67302216	5211A20214K TUBE ASSY CAPILLARY	1	EA
352115	UE12A33A	67302007	5211A20904A TUBE ASSY EVAP IN	1	EA
352115-1	UE12A33A	67302008	5211A20904B TUBE ASSY EVAP IN	1	EA
35211A	UE12A33A	67400176	5211A30587A TUBE ASSY SUCTION SINGL	1	EA
352113	UE12A33A	67400177	5211A30588A TUBE ASSY DISCHG SINGLE	1	EA
152302	UE12A33A	67304304	5230A20007A FILTER (MECH), A/C	1	EA
753011	UE10A33A	67310100	5300A20003A HEATER, ELECTRIC	1	EA
352390	UE12A33A	67302720	5239A10002F AIR GUIDE ASSY	1	EA
554031	UE12A33A	67303318	5403A20040H CONDENSER ASSY BENT	1	EA

LOCATION NO.	Model	Friedrich #	LGE # & Description	Qty	
354210	UE12A33A	67302417	5421A20060A EVAPORATOR ASSY FIRST	1	EA
359012	UE12A33A	67302608	5900A20009B FAN, TURBO	1	EA
559010	UE12A33A	67303202	5900AR1173A FAN BLADE	1	EA
WOCZZ	UE12A33A	67300711	6120AR2359E CAPACITOR DRAWING	1	EA
567502	UE12A33A	67500056	6750U-L058A O.L.P.	1	EA
130900	UE12A33A	67303705	3090A20003B CABINET	1	EA
554160	UE12A33A	67301624	2520UKHK2CA COMPRESSOR SET	1	EA
266003	UE12A33A	67300502	2H00598F SWITCH, ROTARY	1	EA
264110	UE12A33A	67300003	2H00677U POWER CORD ASSY	1	EA
269310	UE12A33A	67300404	2H01127D THERMOSTAT ASSY	1	EA
130410	UE12A33A	67302918	3041A10038F BASE ASSY SINGLE	1	EA
135313	UE12A33A	67306104	3530A20053A GRILLE, INLET	1	EA
435301	UE12A33A	67307201	3530A30002A GRILLE, REAR	1	EA
135312	UE12A33A	67306005	3531A20121B GRILLE ASSY, FRONT(SNGL	1	EA
130410	US08B10	67302914	3041A10014X BASE ASSEMBLY SINGLE	1	EA
130900	US08B10	67303705	3090A20003B CABINET	1	EA
135313	US08B10	67306104	3530A20053A GRILLE, INLET	1	EA
135312	US08B10	67306004	3531A20121A GRILLE ASY, FRONT(SNGL)	1	EA
W48602	US08B10	67302500	3H02932B CLAMP SPRING	1	EA
346811	US08B10	67303019	4681A20044H MOTOR ASSY SINGLE	1	EA
147581	US08B10	67306203	4758A20008B LOUVER, HORIZONTAL	1	EA
147582-1	US08B10	67306252	4758A20009A LOUVER, VERTICAL	1	EA
147582-2	US08B10	67306253	4758A20009B LOUVER, VERTICAL	1	EA
148000	US08B10	67303903	4800A30002A BRACE	1	EA
349001	US08B10	67303503	4900A20001A DAMPER, VENTILATION	1	EA
749180	US08B10	67303504	4918A20001A TRIM	1	EA
349480	US08B10	67303406	4948A10006A ORIFICE	1	EA
349600	US08B10	67303607	4960A20005A MOUNT, MOTOR	1	EA
149980	US08B10	67303111	4998A10007B SHROUD	1	EA
550140	US08B10	67305001	4H00982E ISOLATOR CLAMP	1	EA
552111	US08B10	67302217	5211A20214R TUBE ASSY CAPLRY	1	EA
35211A	US08B10	67400174	5211A20498D TUBE ASY SUCTION SINGLE	1	EA
352113	US08B10	67400175	5211A30588G TUBE ASSY DISCHG SINGLE	1	EA
152302	US08B10	67304304	5230A20007A FILTER (MECH), A/C	1	EA
352390	US08B10	67302719	5239A10002E AIR GUIDE ASSEMBLY	1	EA
554031	US08B10	67303317	5403A20040R CONDENSER ASSY BENT	1	EA
554160	US08B10	67301625	5416A90007D COMPRESSOR	1	EA
354210	US08B10	67302416	5421A20071E EVAPORATOR ASSY FIRST	1	EA
359012	US08B10	67302607	5900A20009A FAN, TURBO	1	EA
559010	US08B10	67303202	5900AR1173A FAN BLADE	1	EA
WOCZZ	US08B10	67300715	6120AR2194F CAPACITOR	1	EA
264110	US08B10	67300009	6411A20028C POWER CORD ASSY	1	EA
267110	US08B10	67307702	6711A20056U REMOTE CONTROL ASSY	1	EA
268714	US08B10	67307605	6871A20343C PWB (PCB) ASSY MAIN	1	EA

LOCATION NO.	Model	Friedrich #	LGE # & Description	Qty	
268712	US08B10	67307607	6871A20344C PWB (PCB) ASSY MAIN	1	EA
554160	US10B10	67301621	2520UKCC2CA COMPRESSOR SET	1	EA
130410	US10B10	67302915	3041A10014V BASE ASSY SINGLE	1	EA
130900	US10B10	67303705	3090A20003B CABINET	1	EA
135313	US10B10	67306104	3530A20053A GRILLE, INLET	1	EA
135312	US10B10	67306004	3531A20121A GRILLE ASY, FRONT(SNGL)	1	EA
W48602	US10B10	67302500	3H02932B CLAMP SPRING	1	EA
346811	US10B10	67303011	4681A20044F MOTOR ASSY, SINGLE	1	EA
147581	US10B10	67306203	4758A20008B LOUVER, HORIZONTAL	1	EA
147582-1	US10B10	67306252	4758A20009A LOUVER, VERTICAL	1	EA
147582-2	US10B10	67306253	4758A20009B LOUVER, VERTICAL	1	EA
148000	US10B10	67303903	4800A30002A BRACE	1	EA
349001	US10B10	67303503	4900A20001A DAMPER, VENTILATION	1	EA
749180	US10B10	67303504	4918A20001A TRIM	1	EA
349480	US10B10	67303406	4948A10006A ORIFICE	1	EA
349600	US10B10	67303607	4960A20005A MOUNT, MOTOR	1	EA
550140	US10B10	67305001	4H00982E ISOLATOR CLAMP	1	EA
552111	US10B10	67302214	5211A20214L TUBE ASSY CAPILLARY	1	EA
352115	US10B10	67302009	5211A20289D TUBE ASSY EVAP IN	1	EA
35211A	US10B10	67400178	5211A20498C TUBE ASSY SUCT SINGLE	1	EA
352113	US10B10	67400179	5211A30588E TUBE ASSY DISCHG SINGLE	1	EA
152302	US10B10	67304304	5230A20007A FILTER (MECH), A/C	1	EA
554031	US10B10	67303316	5403A20040P CONDENSER ASSY BENT	1	EA
354210	US10B10	67302416	5421A20071E EVAPORATOR ASSY FIRST	1	EA
359012	US10B10	67302607	5900A20009A FAN, TURBO	1	EA
559010	US10B10	67303202	5900AR1173A FAN BLADE	1	EA
WQCZZ	US10B10	67300709	6120AR2194K CAPACITOR DRAWING	1	EA
264110	US10B10	67300009	6411A20028C POWER CORD ASSY	1	EA
267110	US10B10	67307702	6711A20056U REMOTE CONTROL ASSY	1	EA
567502	US10B10	67301409	6750U-L031A O.L.P.	1	EA
149980	US10B10	67303111	4998A10007B SHROUD	1	EA
352390	US10B10	67302719	5239A10002E AIR GUIDE ASSEMBLY	1	EA
268714	US10B10	67307605	6871A20343C PWB (PCB) ASSY MAIN	1	EA
268712	US10B10	67307607	6871A20344C PWB (PCB) ASSY MAIN	1	EA
554160	US10B30	67301623	2520UKCK2BA COMPRESSOR SET	1	EA
130410	US10B30	67302915	3041A10014V BASE ASSY SINGLE	1	EA
130900	US10B30	67303705	3090A20003B CABINET	1	EA
135313	US10B30	67306104	3530A20053A GRILLE, INLET	1	EA
435301	US10B30	67307201	3530A30002A GRILLE, REAR	1	EA
135312	US10B30	67306004	3531A20121A GRILLE ASY, FRONT(SNGL)	1	EA
W48602	US10B30	67302500	3H02932B CLAMP SPRING	1	EA
346811	US10B30	67303010	4681A20044E MOTOR ASSY, SINGLE	1	EA
147581	US10B30	67306203	4758A20008B LOUVER, HORIZONTAL	1	EA
147582-1	US10B30	67306252	4758A20009A LOUVER, VERTICAL	1	EA
147582-2	US10B30	67306253	4758A20009B LOUVER, VERTICAL	1	EA

LOCATION NO.	Model	Friedrich #	LGE # & Description	Qty	
148000	US10B30	67303903	4800A30002A BRACE	1	EA
749180	US10B30	67303504	4918A20001A TRIM	1	EA
349480	US10B30	67303406	4948A10006A ORIFICE	1	EA
349600	US10B30	67303607	4960A20005A MOUNT, MOTOR	1	EA
149980	US10B30	67303111	4998A10007B SHROUD	1	EA
550140	US10B30	67305001	4H00982E ISOLATOR CLAMP	1	EA
552111	US10B30	67302214	5211A20214L TUBE ASSY CAPILLARY	1	EA
352115	US10B30	67302010	5211A20289C TUBE ASSY EVAP IN	1	EA
352113	US10B30	67400181	5211A30588B TUBE ASSY DISCHG SINGLE	1	EA
152302	US10B30	67304304	5230A20007A FILTER (MECH), A/C	1	EA
352390	US10B30	67302719	5239A10002E AIR GUIDE ASSEMBLY	1	EA
554031	US10B30	67303316	5403A20040P CONDENSER ASSY BENT	1	EA
354210	US10B30	67302416	5421A20071E EVAPORATOR ASSY FIRST	1	EA
359012	US10B30	67302607	5900A20009A FAN, TURBO	1	EA
559010	US10B30	67303202	5900AR1173A FAN BLADE	1	EA
WQCZZ	US10B30	67300708	6120AR2194D CAPACITOR DRAWING	1	EA
264110	US10B30	67300011	6411A20028B POWER CORD ASSY	1	EA
567502	US10B30	67301413	6750U-L028A O.L.P.	1	EA
35211A	US10B30	67400180	5211A20498B TUBE ASSY SUCTION SINGL	1	EA
268714	US10B30	67307606	6871A20343D PWB (PCB) ASSY MAIN	1	EA
268712	US10B30	67307607	6871A20344C PWB (PCB) ASSY MAIN	1	EA
554160	US12B10	67301622	2520UKGC2DA COMPRESSOR SET	1	EA
WQCZZ	US12B10	67300707	2A00986Y CAPACITOR, DRAWING	1	EA
130410	US12B10	67302916	3041A10014T BASE ASSY SINGLE	1	EA
130900	US12B10	67303705	3090A20003B CABINET	1	EA
135313	US12B10	67306104	3530A20053A GRILLE, INLET	1	EA
435301	US12B10	67307201	3530A30002A GRILLE, REAR	1	EA
135312	US12B10	67306004	3531A20121A GRILLE ASY, FRONT(SNGL)	1	EA
W48602	US12B10	67302500	3H02932B CLAMP SPRING	1	EA
346811	US12B10	67303009	4681A20041D MOTOR ASSY, SINGLE	1	EA
147581	US12B10	67306203	4758A20008B LOUVER, HORIZONTAL	1	EA
147582-1	US12B10	67306252	4758A20009A LOUVER, VERTICAL	1	EA
147582-2	US12B10	67306253	4758A20009B LOUVER, VERTICAL	1	EA
148000	US12B10	67303903	4800A30002A BRACE	1	EA
349001	US12B10	67303503	4900A20001A DAMPER, VENTILATION	1	EA
749180	US12B10	67303504	4918A20001A TRIM	1	EA
349480	US12B10	67303406	4948A10006A ORIFICE	1	EA
349600	US12B10	67303606	4960A20008A MOUNT, MOTOR	1	EA
149980	US12B10	67303111	4998A10007B SHROUD	1	EA
550140	US12B10	67305001	4H00982E ISOLATOR CLAMP	1	EA
552111	US12B10	67302215	5211A20214Q TUBE ASSY CAPILARY	1	EA
352115	US12B10	67302007	5211A20904A TUBE ASSY EVAP IN	1	EA
352115-1	US12B10	67302008	5211A20904B TUBE ASSY EVAP IN	1	EA

LOCATION NO.	Model	Friedrich #	LGE # & Description	Qty	
35211A	US12B10	67400176	5211A30587A TUBE ASSY SUCTION SINGL	1	EA
352113	US12B10	67400177	5211A30588A TUBE ASSY DISCHG SINGLE	1	EA
152302	US12B10	67304304	5230A20007A FILTER (MECH), A/C	1	EA
352390	US12B10	67302719	5239A10002E AIR GUIDE ASSEMBLY	1	EA
554031	US12B10	67303308	5403A20040K CONDENSER ASY, BENT	1	EA
354210	US12B10	67302417	5421A20060A EVAPORATOR ASSY FIRST	1	EA
359012	US12B10	67302607	5900A20009A FAN, TURBO	1	EA
559010	US12B10	67303202	5900AR1173A FAN BLADE	1	EA
264110	US12B10	67300010	6411A20028D POWER CORD ASSY	1	EA
567502	US12B10	67301407	6750U-L029A O.L.P.	1	EA
268714	US12B10	67307605	6871A20343C PWB (PCB) ASSY MAIN	1	EA
268712	US12B10	67307607	6871A20344C PWB (PCB) ASSY MAIN	1	EA
554160	US12B30	67301624	2520UKHK2CA COMPRESSOR SET	1	EA
130410	US12B30	67302916	3041A10014T BASE ASSY SINGLE	1	EA
130900	US12B30	67303705	3090A20003B CABINET	1	EA
135313	US12B30	67306104	3530A20053A GRILLE, INLET	1	EA
435301	US12B30	67307201	3530A30002A GRILLE, REAR	1	EA
135312	US12B30	67306004	3531A20121A GRILLE ASY, FRONT(SNGL)	1	EA
W48602	US12B30	67302500	3H02932B CLAMP SPRING	1	EA
346811	US12B30	67303008	4681A20041C MOTOR ASSEMBLY, SINGLE	1	EA
147581	US12B30	67306203	4758A20008B LOUVER, HORIZONTAL	1	EA
147582-1	US12B30	67306252	4758A20009A LOUVER, VERTICAL	1	EA
147582-2	US12B30	67306253	4758A20009B LOUVER, VERTICAL	1	EA
148000	US12B30	67303903	4800A30002A BRACE	1	EA
349001	US12B30	67303503	4900A20001A DAMPER, VENTILATION	1	EA
749180	US12B30	67303504	4918A20001A TRIM	1	EA
349480	US12B30	67303406	4948A10006A ORIFICE	1	EA
349600	US12B30	67303606	4960A20008A MOUNT, MOTOR	1	EA
550140	US12B30	67305001	4H00982E ISOLATOR CLAMP	1	EA
552111	US12B30	67302216	5211A20214K TUBE ASSY CAPILLARY	1	EA
352115	US12B30	67302007	5211A20904A TUBE ASSY EVAP IN	1	EA
352115-1	US12B30	67302008	5211A20904B TUBE ASSY EVAP IN	1	EA
35211A	US12B30	67400176	5211A30587A TUBE ASSY SUCTION SINGL	1	EA
352113	US12B30	67400177	5211A30588A TUBE ASSY DISCHG SINGLE	1	EA
152302	US12B30	67304304	5230A20007A FILTER (MECH), A/C	1	EA
352390	US12B30	67302719	5239A10002E AIR GUIDE ASSEMBLY	1	EA
554031	US12B30	67303309	5403A20040H CONDENSER ASSY, BENT	1	EA
354210	US12B30	67302417	5421A20060A EVAPORATOR ASSY FIRST	1	EA
359012	US12B30	67302607	5900A20009A FAN, TURBO	1	EA
559010	US12B30	67303202	5900AR1173A FAN BLADE	1	EA
WQCZZ	US12B30	67300708	6120AR2194D CAPACITOR DRAWING	1	EA
264110	US12B30	67300011	6411A20028B POWER CORD ASSY	1	EA
267110	US12B30	67307702	6711A20056U REMOTE CONTROL ASSY	1	EA
567502	US12B30	67500056	6750U-L058A O.L.P.	1	EA
268714	US12B30	67307606	6871A20343D PWB (PCB) ASSY MAIN	1	EA
268712	US12B30	67307607	6871A20344C PWB (PCB) ASSY MAIN	1	EA



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