

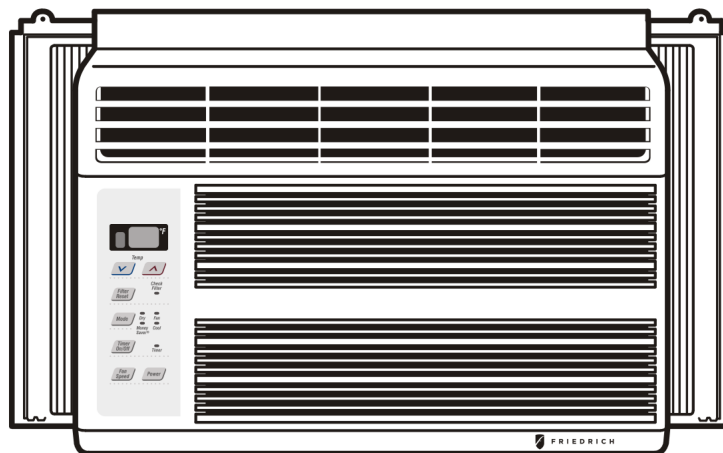


FRIEDRICH

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Room Air Conditioner
Service & Parts Manual
2014-2015

CP05



Chill
115 Volts

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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, turn off the air conditioner 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.
4. The value should be over 1M .

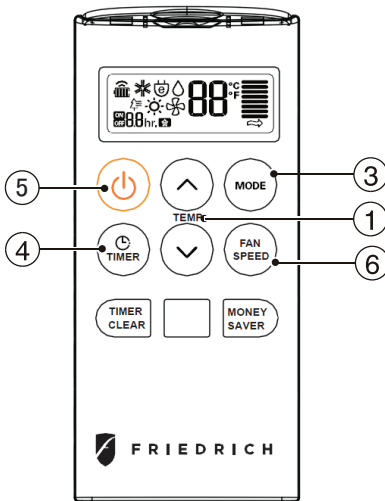
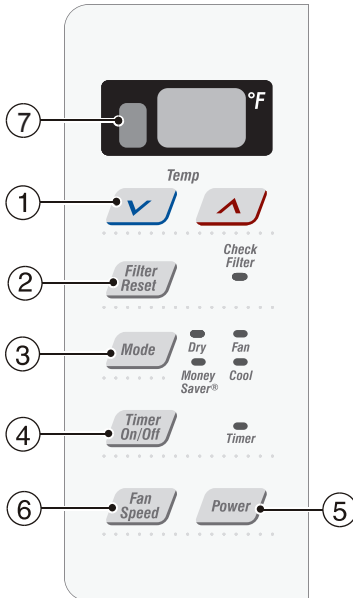
1.3 PRODUCT SPECIFICATIONS

Buyer Model	CP05G10A
BTU performance (Cooling)	5,450
BTU performance (Heating)	
EER	10.7
COP	
Dehumid. (Pts/Hr)	1.5
Dry Air Flow (CFM)	140
dBA Level (Indoor / Outdoor)	52/56
Est. Cooling Area (SQ.FT)	150
Voltage / 60 Hz	115
Watts (Cooling)	500
Watts (Heating)	
Rated Amps (Cooling)	4.8
Rated Amps (Heating)	
Thermostat Control	Thermistor
Air Diflection	2-Way
Remote controller	Yes
Auto swing	NO
Auto Restart	Yes
Energy saver fuction	Yes
Timer	24Hr,On/Off
Sleep	-
Fan Speed: Cooling(Heating)	3
Fan Only	3
Compressor	ROTARY
In Door Fan Type	TURBO
Type Air Discharge	Top
Outdoor Vent / Exhaust	No
Rear grille	No
Chassis Type	Top_down
Carton Height(inch)	15 3/16
Width	22 9/16
Depth	17 7/32
Demension Height(inch)	12 9/32
Width	18 9/16
Depth	15 13/32
Net Weight(lbs.)	46
Shipping Weight(lbs.)	50
Stuffing Quantity (20/4040Hi ft)	312/644/644

1.4 OPERATING INSTRUCTIONS

The controls will look like the following.

Control and Remote Control Operations



① TEMPERATURE SETTING

- These buttons control the temperature of the room. The temperature can be set within a range of 60°F to 86°F, in increments of 1°F.

② CHECK FILTER & FILTER RESET

- Check Filter: Your 'Check Filter' LED will light up after approximately 250 hours of operation, notifying you that your filter needs to be cleaned.
- Filter Reset: press 'Filter Reset' to turn off 'Check Filter' light.

③ OPERATION MODE SELECTOR

- Push the 'Mode' button to rotate between MoneySaver → Cool → Fan → Dry modes. (select Dry mode for dry/dehumidifier operation)
- MoneySaver: The fan will stop when the compressor stops cooling. The fan will turn on approximately every 3 minutes to sample to room air and determine if more cooling is needed.
- Cool: fan runs continually for normal cooling operation.
- Fan Only: Fan-only operation

* MoneySaver has it's own button on your remote control

④ ON/OFF TIMER

- **ON**-If unit is off, use Timer to set number of hours before unit starts.
- Push Timer button to advance setting from 1hr - 2hrs - 24hrs maximum.
- **OFF** - You will usually use shut-off time while you sleep.
- If unit is running, use Timer to set number of hours until shut-off.
- Push Timer button to advance setting from 1 hr - 2 hrs.... 24hrs maximum.

*Timer Clear: On remote control, 'Timer Clear' button will cancel the timer setting

⑤ POWER

- To turn the unit ON, push the button. To turn the unit OFF, push the button again.
- This button takes priority over all other buttons.
- When you first turn it on, the unit is on the High Cool mode and the temperature is set at 72°F.

⑥ FAN SPEED

- Everytime you push this button it will rotate between the following fan speeds:
High (F3) → Low(F1) → Medium (F2) → High (F3)

⑦ REMOTRE CONTROL SENSOR

- To receive the signal from remote contoller

How to Insert Batteries

1. Remove the cover from the back of the remote control.
2. Insert two batteries.
 - Be sure that the (+) and (-) directions are correct.
 - Be sure that both batteries are new.
3. Re-attach the cover.



- Do not use rechargeable batteries. Such batteries differ from standard dry cells in shape, dimensions, and performance.
- Remove the batteries from the remote control if the air conditioner is not going to be used for an extended length of time.

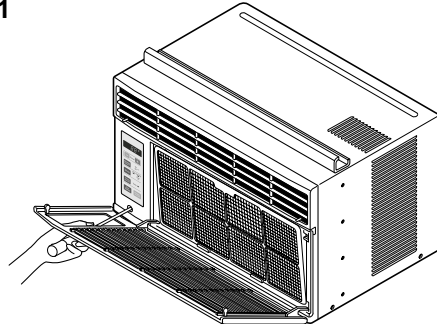
2. DISASSEMBLY INSTRUCTIONS

2.1 MECHANICAL PARTS

2.1.1 FRONT GRILLE

1. Pull the inlet grille forward.
2. Remove the screw securing the Front Grille. (Fig. 3)
3. Push the grille up from the bottom and pull the top of the grille away from the case to lift the top tabs out of their slots. (Fig. 4)
4. Carefully position the grille, bottom first, and snap back into place.
5. Reposition the screw that secures the front grille

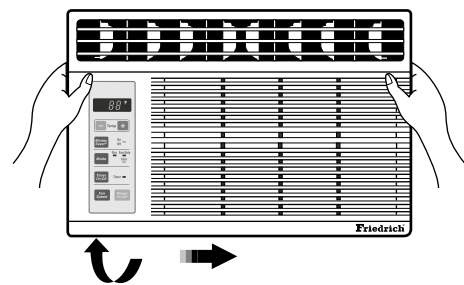
Figure 1



2.1.2 CABINET

1. Disconnect the unit from the power source.
2. Remove the front grille. (Refer to section 2.1.1)
3. Remove 9 screws that secure the cabinet to the base pan and condenser. (See Figure 3)
4. Lift the cabinet from the unit.
5. Re-install by referring to the procedures above.

Figure 2



2.1.3 CONTROL PANEL

2. Remove the front grille. (Refer to Section 2.1.1)
3. Remove the cabinet. (Refer to Section 2.1.2)
4. Remove 1 screws that secure the control board to base pan and air guide. (See Figure 4)
5. Pull the control panel toward yourself.

Figure 3

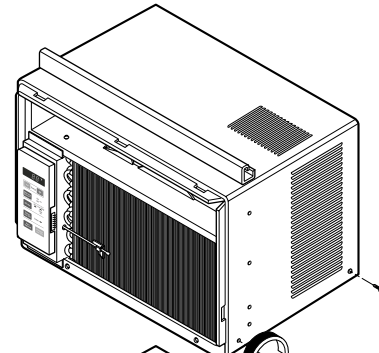


Figure 4

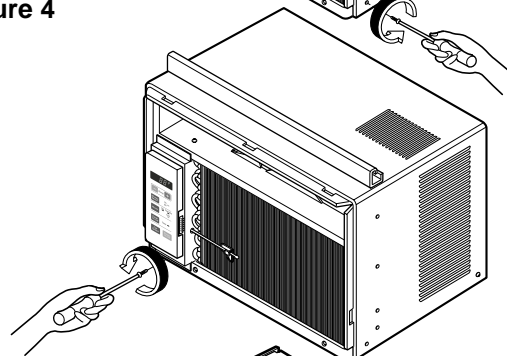
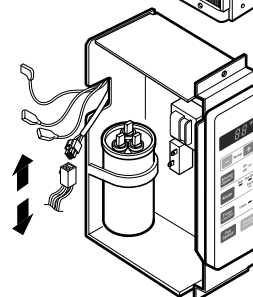


Figure 5



NOTE : Controls, wires, and capacitor are not accessible for servicing. Discharge the capacitor before servicing. See step 2.3.3 on page 8 for procedures.

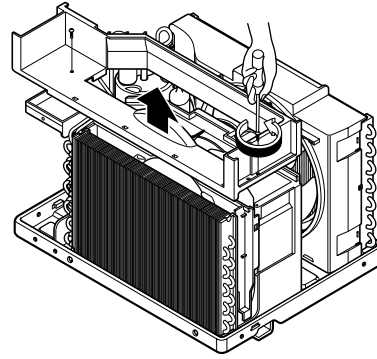
- the fan motor and compressor. (See Figure 5)
7. Re-install components by referring to procedures above. (Refer to wiring diagram on page 23 in this manual or inside control board.)

2.2 AIR HANDLING PARTS

2.2.1 AIR GUIDE UPPER

1. Disconnect the unit from the power source.
2. Remove the front grille. (Refer to Section 2.1.1)
3. Remove the cabinet. (Refer to Section 2.1.2)
4. Remove the control panel.
(Refer to Section 2.1.3)
5. Remove 2 screws that secure the upper air guide to air guide lower. (See Figure 6)
6. Lift upper air guide upward.
7. Re-install by referring to the procedures above.

Figure 6



2.2.2 ORIFICE, TURBO FAN AND FAN

1. Disconnect the unit from the power source.
2. Remove the front grille. (Refer to Section 2.1.1)
3. Remove the cabinet. (Refer to Section 2.1.2)
4. Remove the control board.
(Refer to Section 2.1.3)
5. Remove the air guide upper.
(Refer to Section 2.2.1)
6. Remove 2 screws that secure the base pan to condenser. (See Figure 7)
7. Remove screw that secures the shroud to channel of condenser.
8. Press the snap area of shroud with your thumbs. This allows you to remove it from the condenser.
9. Lift the compressor upward with the evaporator and condenser. (See Figure 7)
10. Remove the orifice by pushing the snap area of the air guide blower. (See Figure 8)
11. Remove the clamp springs which are clamped to the shaft of fan and turbo fan by hand plier. (See Figure 9)
12. Pull the fan and turbo fan outward.
13. Remove the shroud.
14. Re-install by referring to the procedures above.

Figure 7

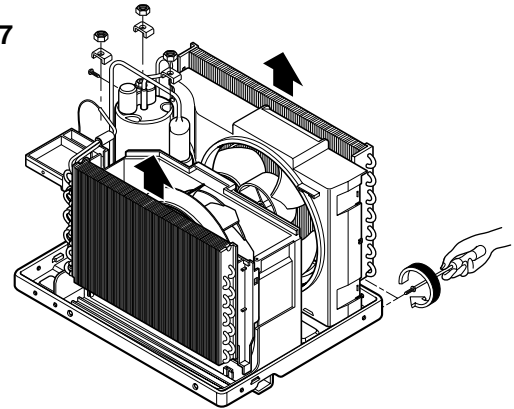


Figure 8

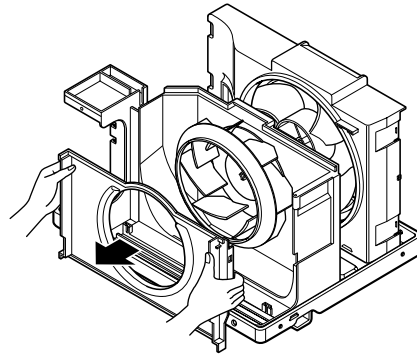
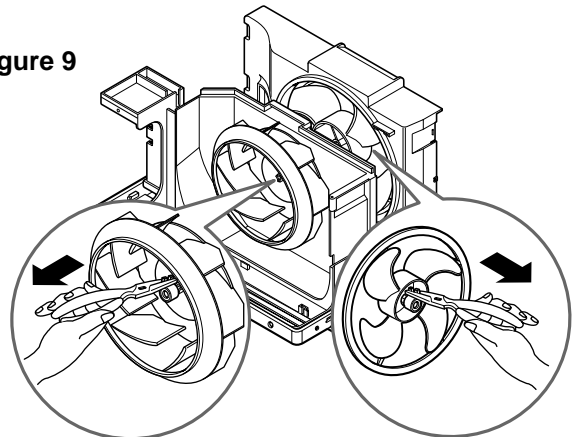


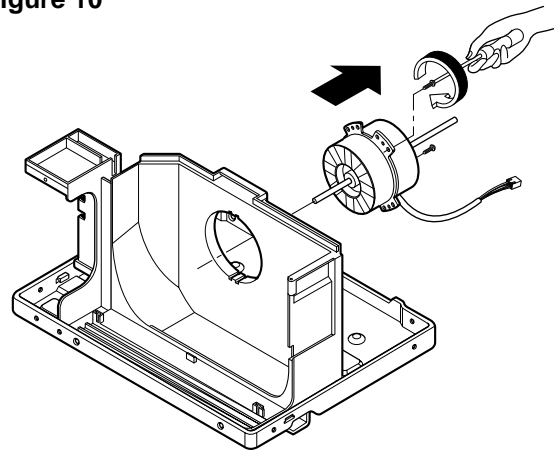
Figure 9



2.2.3 MOTOR

1. Disconnect the unit from the power source.
2. Remove the front grille. (Refer to Section 2.1.1)
3. Remove the cabinet. (Refer to Section 2.1.2)
4. Remove the control panel.
(Refer to Section 2.1.3)
5. Remove the upper air guide.
(Refer to Section 2.2.1)
6. Remove the compressor, turbo fan, fan and shroud. (Refer to Section 2.2.2)
7. Remove 2 screws that secure the motor to the motor mount . (See Figure 10)
8. Remove the motor.
9. Re-install by referring to the procedures above.

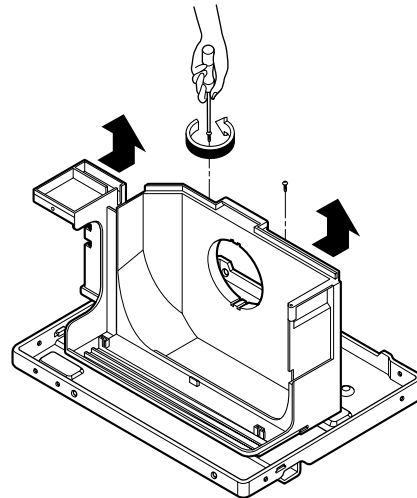
Figure 10



2.2.4 AIR GUIDE

1. Disconnect the unit from the power source.
2. Remove the front grille. (Refer to Section 2.1.1)
3. Remove the cabinet. (Refer to Section 2.1.2)
4. Remove the control panel.
(Refer to Section 2.1.3)
5. Remove the upper air guide .
(Refer to Section 2.2.1)
6. Remove the compressor, turbo fan, fan and shroud. (Refer to Section 2.2.2)
7. Remove the motor. (Refer to Section 2.2.3)
8. Remove 2 screws that secure the air guide to the base pan. (See Figure 11)
9. Push the air guide backward and lift it upward.
(See Figure 11)
10. Re-install by referring to the procedures above.

Figure 11



2.3 ELECTRICAL PARTS

2.3.1 OVERLOAD PROTECTOR

1. Remove the front grille and cabinet.
(Refer to Section 2.1)
2. Remove the nut which fastens the terminal cover.
3. Remove the terminal cover.
4. Remove all the leads from the overload protector.
5. Remove the overload protector.
6. Re-install the components by referring to the removal procedure above.
(See Figure 12 and 13)

Figure 12

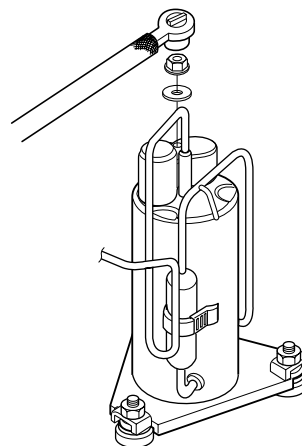
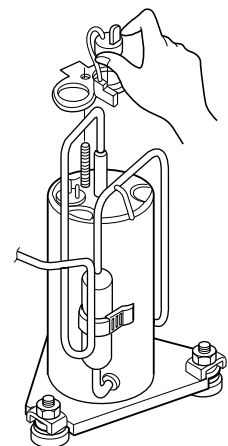


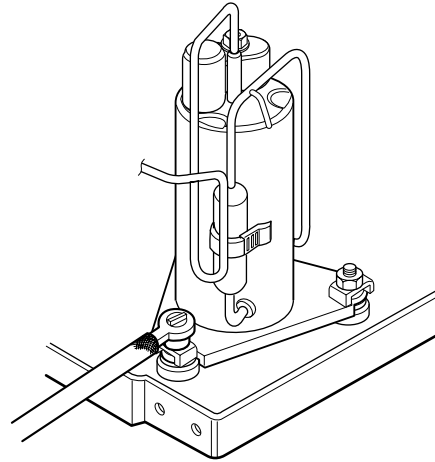
Figure 13



2.3.2 COMPRESSOR

1. Remove the front grille and cabinet.
(Refer to Section 2.1)
2. Discharge the refrigerant by using a refrigerant recovery system.
3. Remove the overload protector.
(Refer to Section 2.3.1)
4. After discharging the unit completely, unbrace the suction and discharge pipes at the compressor connections.
5. Remove 3 nuts which fasten the compressor.
6. Remove the compressor.
7. Re-install by referring to the removal procedure above. (See Figure 14)

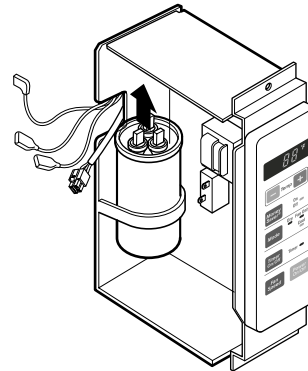
Figure 14



2.3.3 CAPACITOR

1. Remove the cabinet. (Refer to Section 2.1.2)
2. Remove the control panel.
(Refer to Section 2.1.3)
3. Discharge the capacitor by placing a 20 K Ω resistor across the capacitor terminals.
4. Remove the screw which fastens the capacitor clamp.
5. Remove all the leads of capacitor terminals.
6. Re-install the components by referring to the removal procedure above. (See Figure 15)

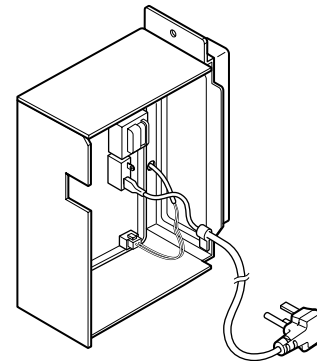
Figure 15



2.3.4 THERMISTOR

1. Remove the cabinet. (Refer to Section 2.1.2)
2. Remove the control panel.
(Refer to Section 2.1.3)
3. Disconnect the thermistor terminals from main P.W.B assembly.
4. Remove the thermistor.
5. Re-install the components by referring to the removal procedure above. (See Figure 16)

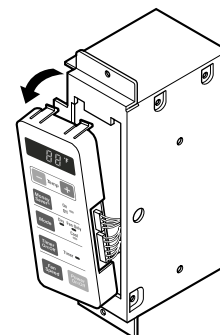
Figure 16



2.3.5 CONTROL BOARD

1. Remove the cabinet. (Refer to Section 2.1.2)
2. Remove the control panel.
(Refer to Section 2.1.3)
3. Pull the control board forward and pull out it.
4. Remove 2 lead wire terminals.
5. Re-install the components by referring to the removal procedure above. (See Figure 17)

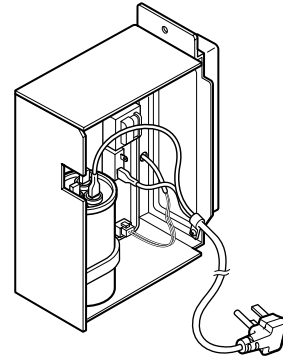
Figure 17



2.3.6 POWER CORD

1. Disconnect the unit from source of power.
2. Remove the front grille. (Refer to Section 2.1.1)
3. Remove the cabinet. (Refer to Section 2.1.2)
4. Remove a screw that secures control panel to base pan. (Refer to Section 2.1.3)
5. Pulls the control board toward you.
6. Disconnect the 2 receptacles and remove the grounding screw.
7. Remove a screw securing the clip with cord to the control panel.
8. Pull the power cord.
9. Re-install by referring to procedures above.

Figure 18

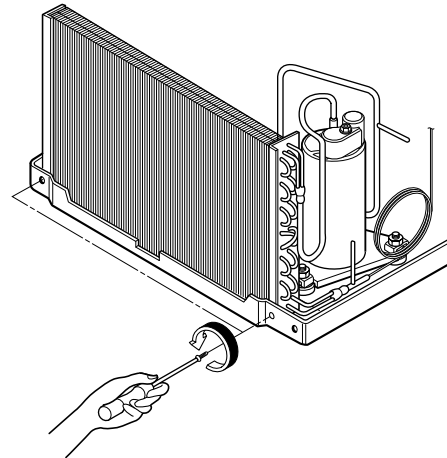


2.4 REFRIGERANT CYCLE

2.4.1 CONDENSER

1. Remove the cabinet. (Refer to Section 2.1.2)
2. Discharge the refrigerant by using a refrigerant recovery system.
3. Remove the air guide. (Refer to Section 2.2.1)
4. Remove 2 screws which fasten the condenser.
5. After discharging the refrigerant completely, unbraid the interconnecting tube at the condenser connections.
6. Remove the condenser.
7. Re-install by referring to the procedures above.

Figure 19



2.4.2 EVAPORATOR

1. Remove the cabinet.
2. Discharge the refrigerant by using a refrigerant recovery system.
3. Remove the upper air guide . (Refer to Section 2.2.1)
4. After discharging the refrigerant completely, unbrazed the interconnecting tube at the condenser connections.
5. Remove the evaporator.
6. Re-install by referring to the procedures above.

2.4.3 CAPILLARY TUBE

1. Remove the cabinet.
2. Discharge the refrigerant by using a refrigerant recovery system.
3. Remove the upper air guide. (Refer to Section 2.2.1)
4. After discharging the refrigerant completely, unbrazed the interconnecting tube of the capillary tube.
5. Remove the capillary tube.
6. Re-install by referring to the procedures above.

NOTES

Replacement of the refrigeration cycle.

1. When replacing the refrigerating cycle, be sure to discharge the refrigerant by using a refrigerant recovery system.
2. After discharging the unit completely, remove the desired components, and unbrazed 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. After completing the above procedures, the valve must be removed .
6. Evacuate as follows:
 - 6-1. Connect the vacuum pump, as illustrated in figure 21A.
 - 6-2. Start the vacuum pump. Slowly open manifold valves A and B with two full turns counter-clockwise and leave the valves closed. The vacuum pump is now pulling through valves A and B up to valve C by means of manifold and the 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 counter-clock-

wise. This will keep oil from foaming and being drawn into the vacuum pump.

- 6-3. Operate the vacuum pump for 20 to 30 minutes, until 600 micron 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.
- 6-4. Remove the hose from the vacuum pump and place it on the charging cylinder. See figure 23B. Open valve C. Discharge the line at the manifold connection.
- 6-5. The system is now ready for final charging.
7. Recharge as follows:
 - 7-1. Rotary compressor 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 is installed as the system is opened.
 - 7-2. Connect the charging cylinder as shown in figure 21B. With valve C open, discharge the hose at the manifold connection.
 - 7-3. Open valve A and allow the proper charge to enter the system. Valve B is still closed.
 - 7-4. If more charge is required, the high-side will not take it. Close valve A.
 - 7-5. 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 the pressure to drop.
 - d. Repeat steps B and C until the balance of the charge is in the system.
 - 7-6. When the unit is operating correctly, use the pinch-off tool with the unit still running and the clamp on 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 the pinch-off tube closed. Turn off the unit, allow setting 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 and service valve.

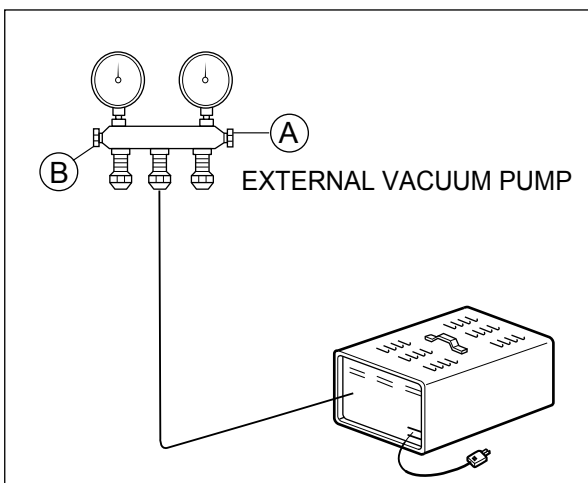
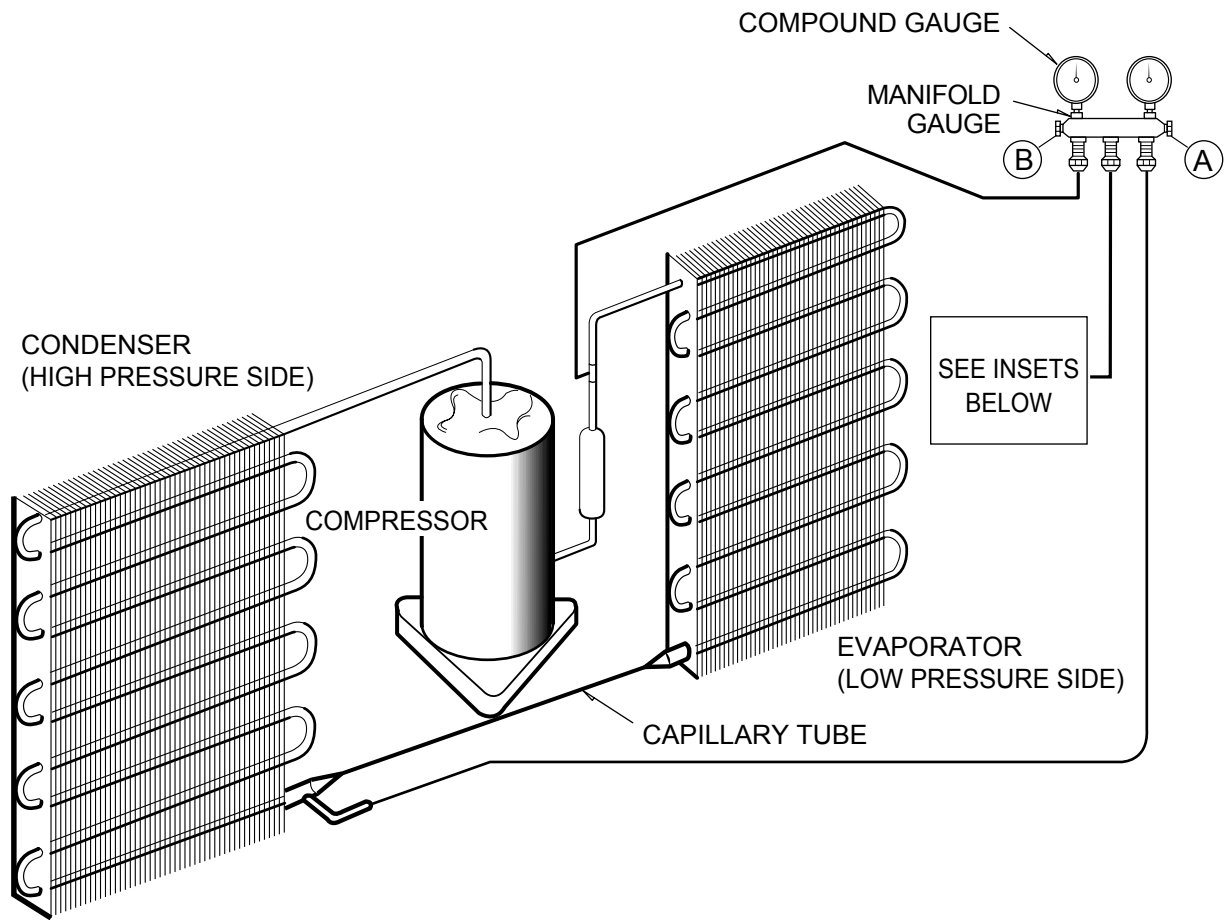


Figure 21A-Pulling Vacuum

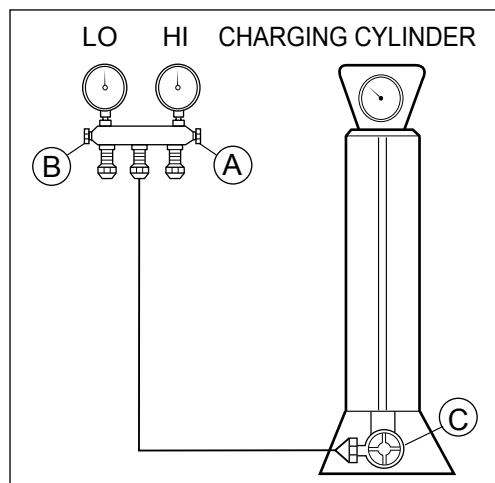
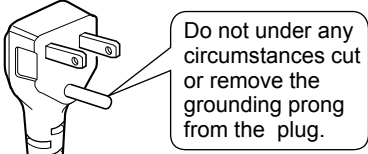
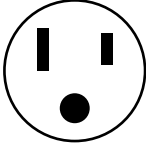


Figure 21B-Charging

2.4.4 ELECTRICAL DATA

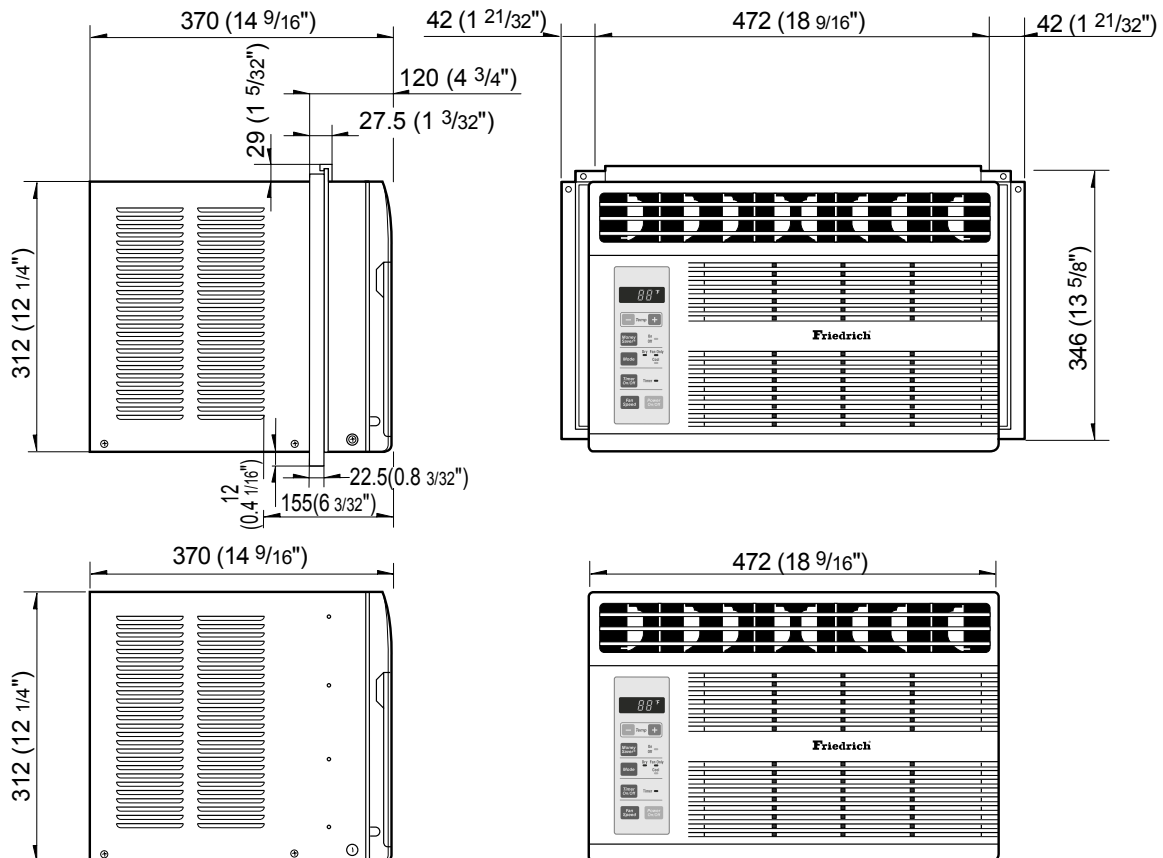
Line Cord Plug	Use Wall Receptacle	Power Supply
 <p>Do not under any circumstances cut or remove the grounding prong from the plug.</p> <p>Power supply cord with 3-prong grounding plug</p>	 <p>Standard 125V, 3-wire grounding receptacle rated 15A, 125V AC</p>	<p>Use 15 AMP, time delay fuse, or circuit breaker.</p>

USE OF EXTENSION CORDS

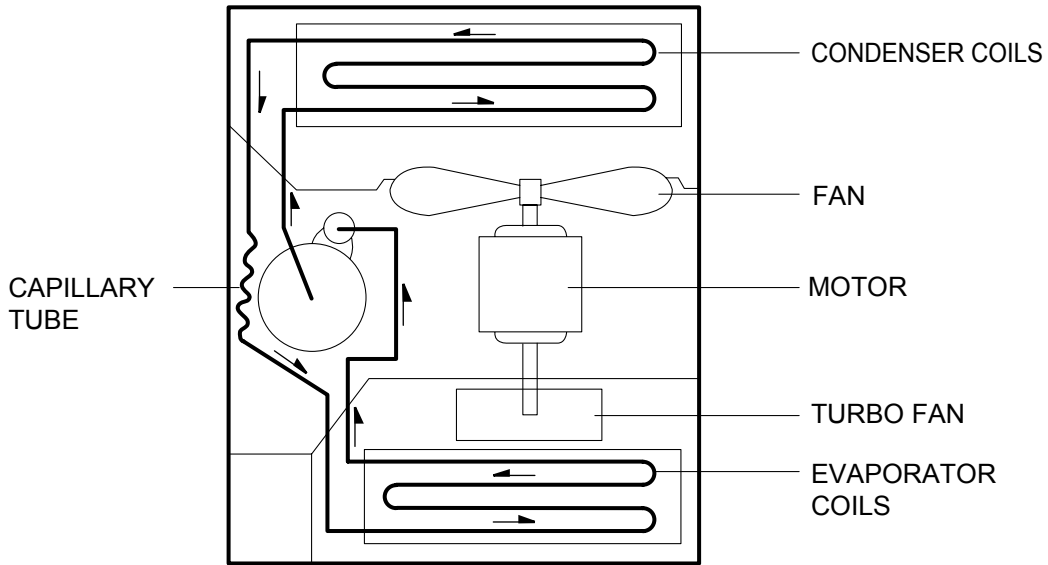
Because of potential safety hazards, we strongly discourage the use of an extension cord. However, if you wish to use an extension cord, use a CSA certified/UL-listed 3-wire (grounding) extension cord, rated 15A, 125V.

3. TROUBLESHOOTING GUIDE

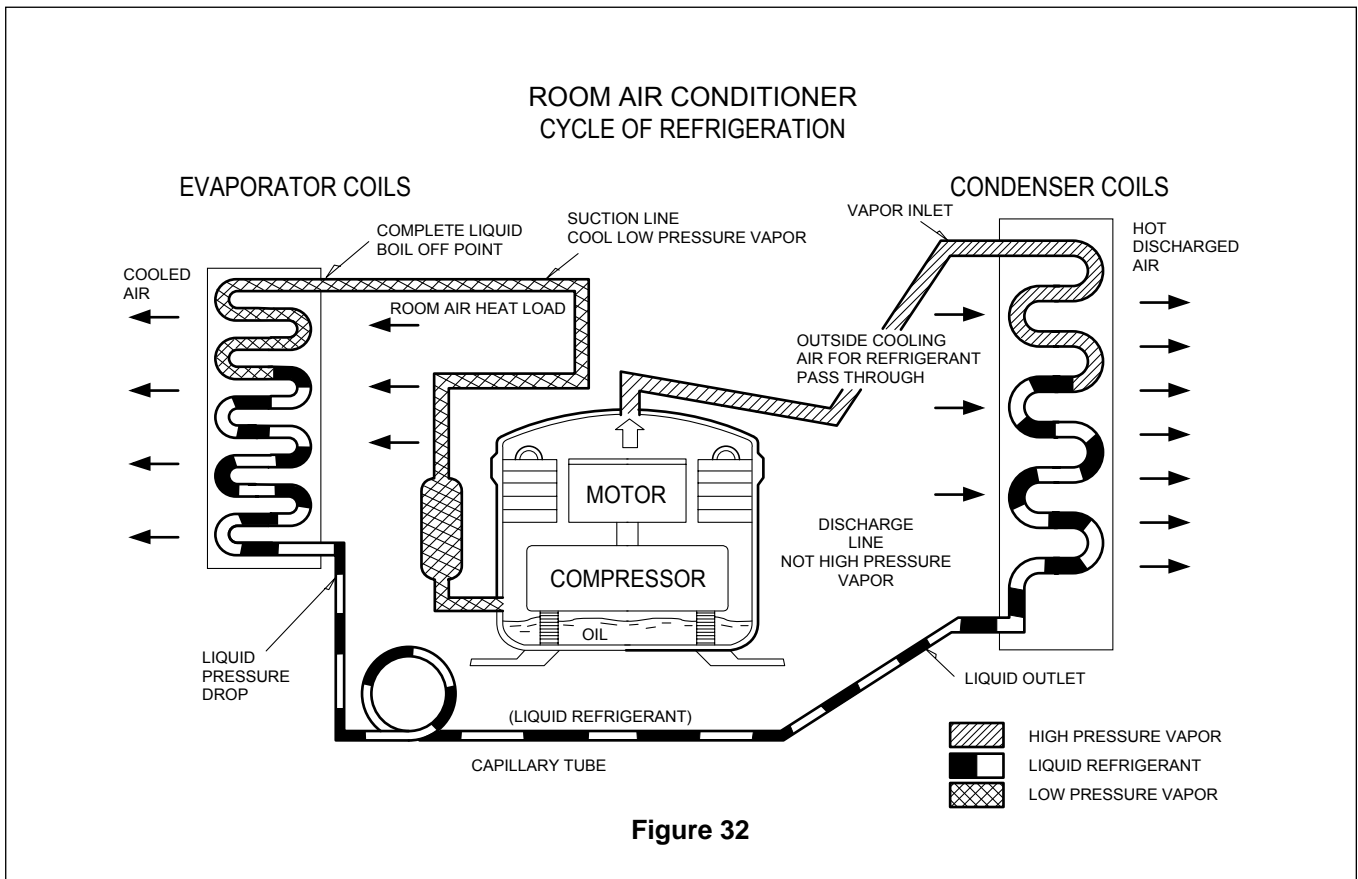
3.1 OUTSIDE DIMENSIONS (unit: mm [in])



3.2 PIPING SYSTEM



Following is a brief description of the important components and their function in what is called the refrigeration system. Reference should be made to Figure 32 to follow the refrigerating cycle and the flow of the refrigerant in the cooling cycle.

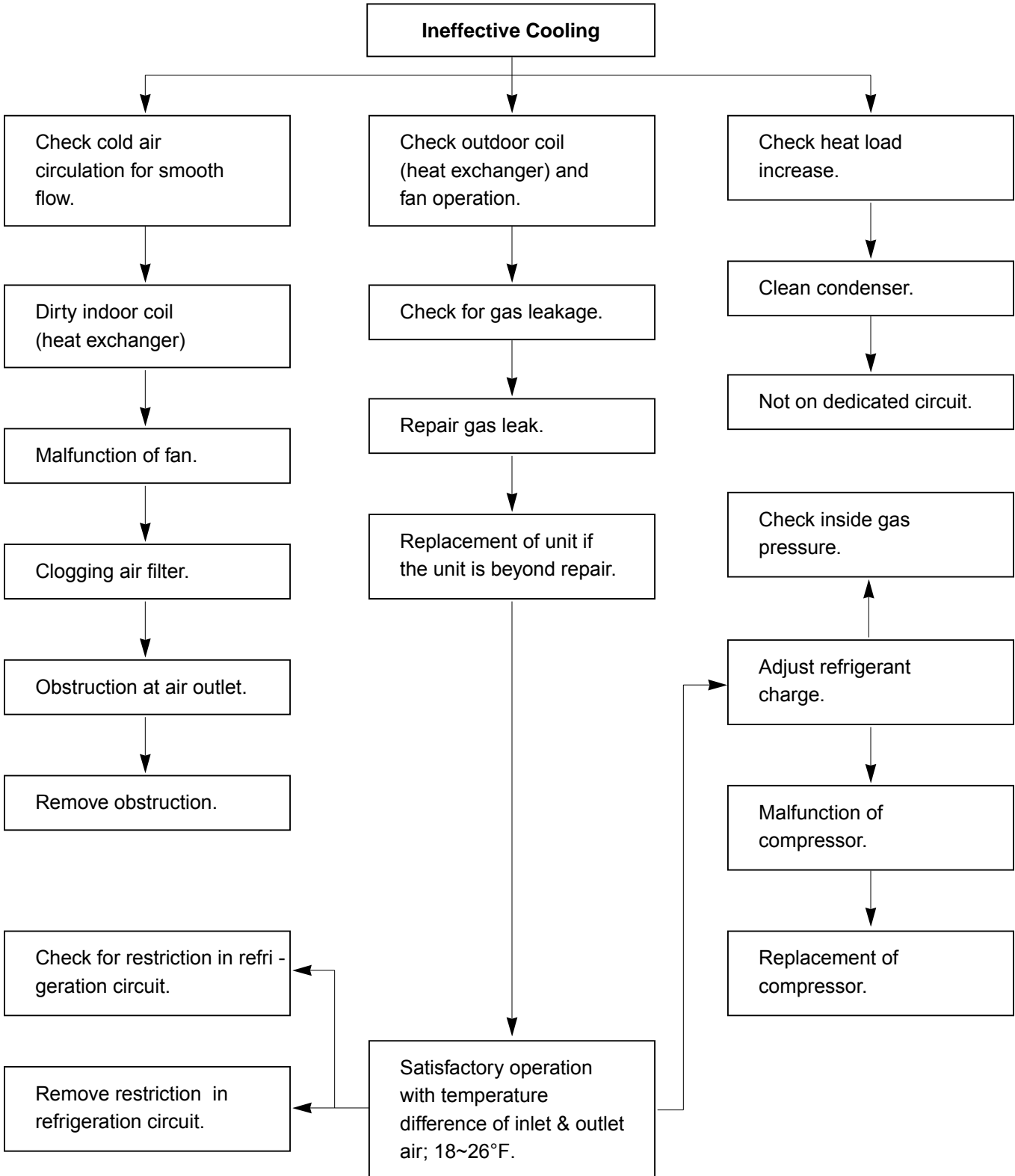


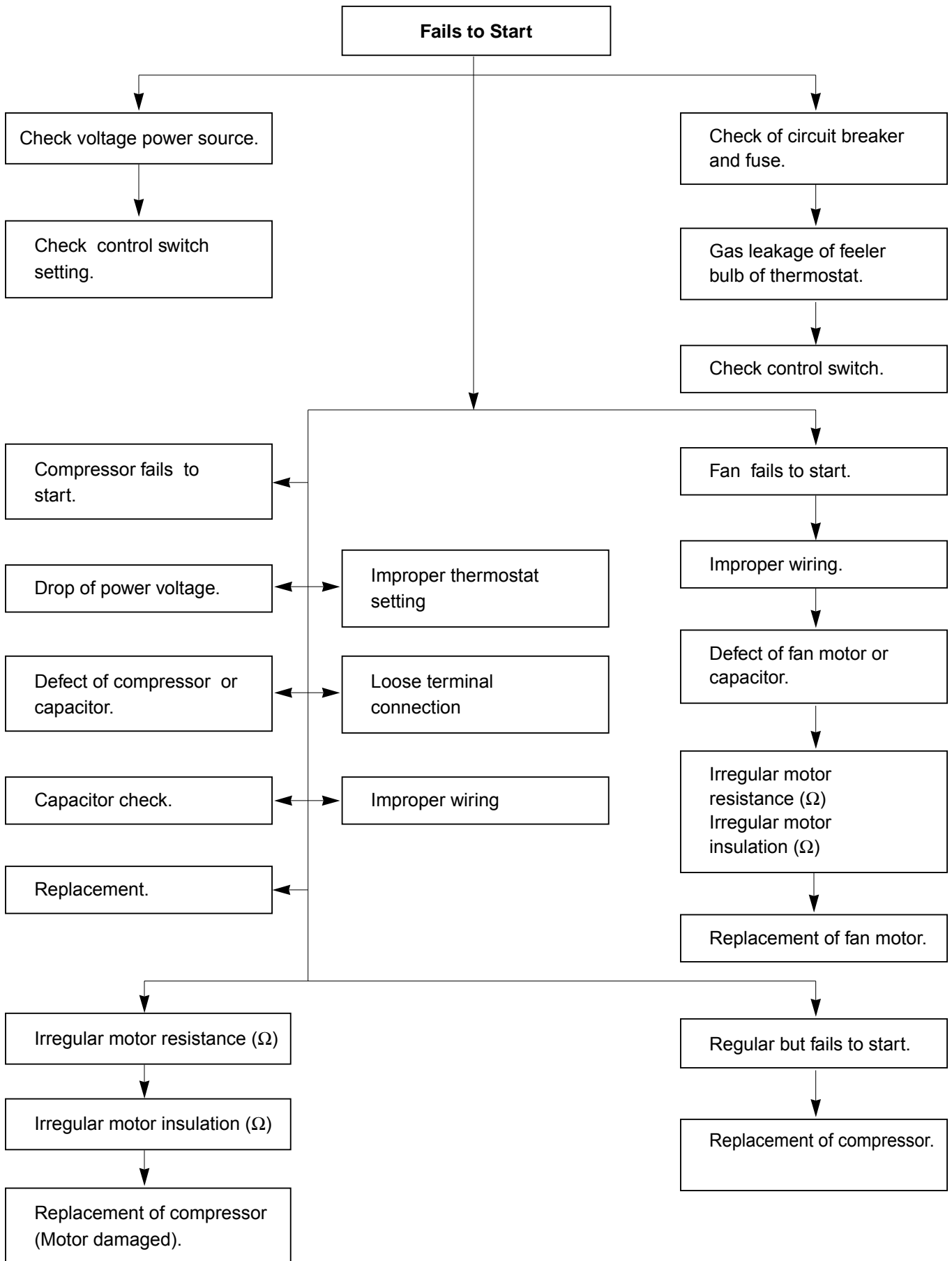
3.3 TROUBLESHOOTING GUIDE

In general, possible trouble is classified in two kinds.

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

Unit is running but cooling is ineffective.





ROOM AIR CONDITIONER VOLTAGE LIMITS

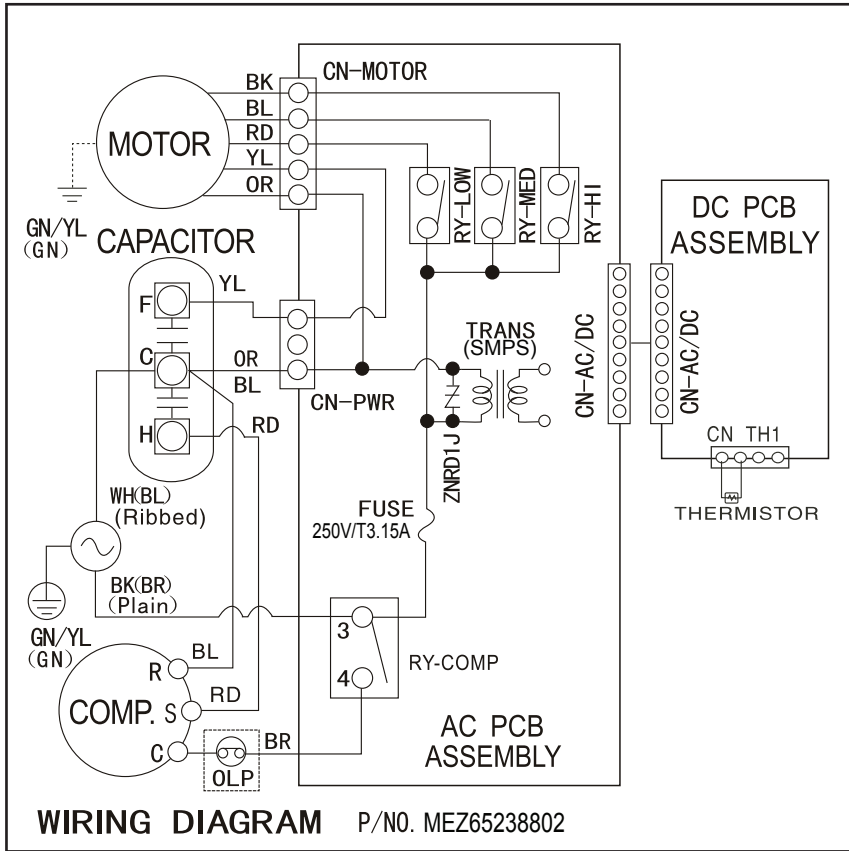
NAME PLATE RATING	MINIMUM	MAXIMUM
115V ± 10%	103.5V	126.5V

COMPLAINT	CAUSE	REMEDY
Fan motor will not run.	No power	Check voltage at outlet. Correct if none.
	Power supply cord	Check voltage to electronic control board. If none, check power supply cord. Replace cord if circuit is open.
	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 ±10% of manufacturer's rating. Replace if shorted, open, or damaged.
	Will not rotate	Fan blade hitting shroud or blower wheel hitting scroll. Re-align assembly. Units using slinger ring condenser fans must have 1/4" inch clearance to the base. If necessary, 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.	Revolves on overload	Check voltage. See limits on this page. 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.

COMPLAINT	CAUSE	REMEDY
Fan motor noise.	Fan blade	If cracked, out of balance, or partially missing, replace it.
	Blower wheel	If cracked, out of balance, or partially missing, replace it.
	Loose set screw	Tighten it.
	Worn bearings	If knocking sounds continue when running replace the motor. If the motor hums or noise appears to be internal while running, replace motor.
Compressor will not run, 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 the wires are disconnected, refer to wiring diagram for identification, and replace the wires. Check the wire connections; If not according to the wiring diagram, correct the connections.
	Thermistor	Check the TEMP control. If not at the lowest number, set TEMP control to this setting.
		Check the continuity of the thermistor. Replace the control board if the 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, and retest.)
Compressor cycles on overload.	Voltage	Check the voltage. See the limits on the preceding page. If voltage is not within these 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.)

COMPLAINT	CAUSE	REMEDY
Compressor cycles on overload. required.	Fan motor	If not running, determine the cause. Replace if
	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 re-assembling.
	Condenser fins (damaged)	If the 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 the capacitor.
	Wiring	Check the terminals. If loose, repair or replace.
	Refrigeration system	Check the system for a restriction.
Insufficient cooling	Air filter	If restricted, clean or replace.
	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 scroll or barrier, rearrange the air handling parts.
	Copper tubing	Remove the cabinet and carefully rearrange the tubing not to contact the cabinet, compressor, shroud, and barrier.

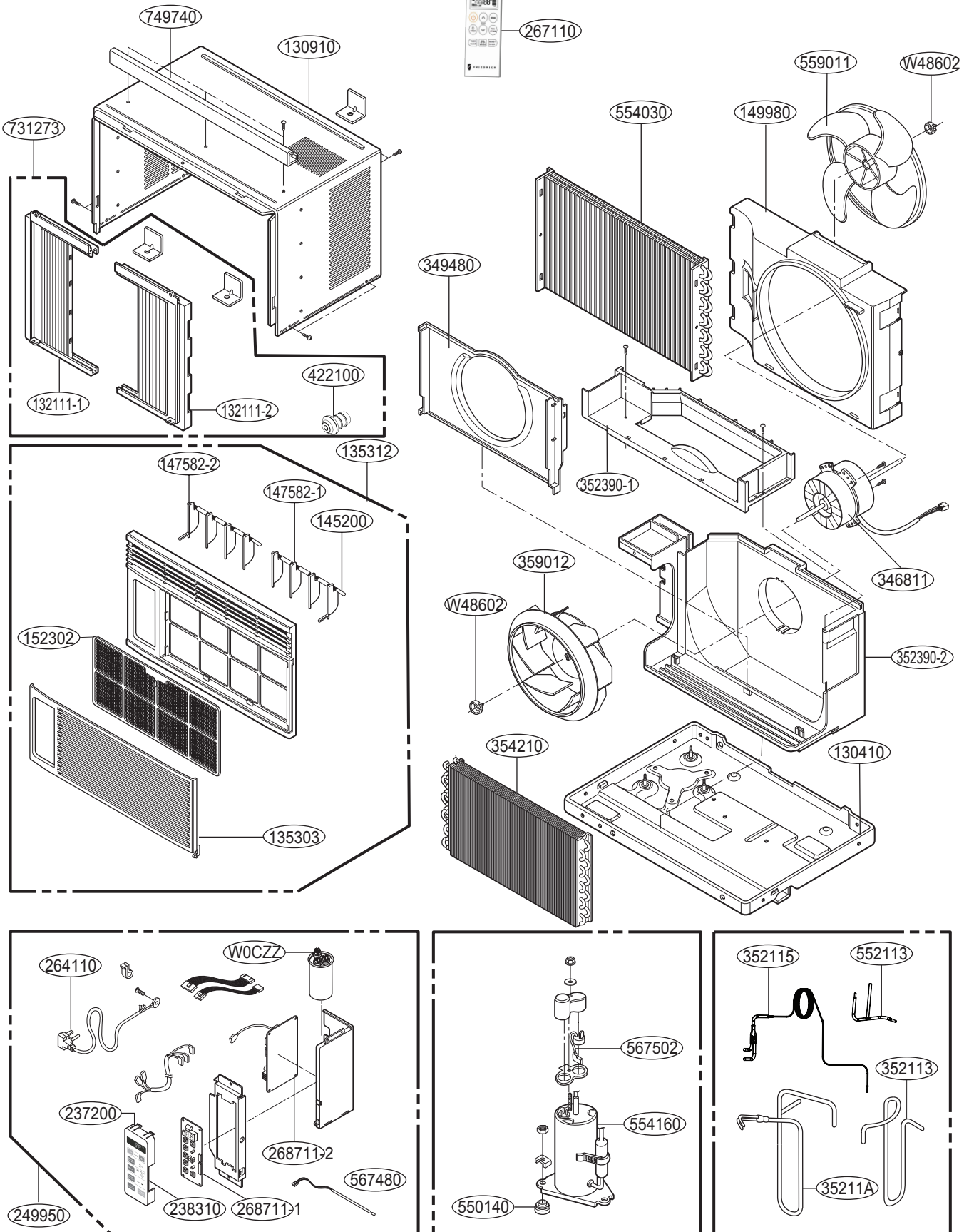
4. CIRCUIT DIAGRAM



Fault Codes

Error No.	Error Item	Error Content
CH01	Indoor Air Sensor Error	Indoor air sensor open or short
CH09	EEPROM CheckSum Error	EEPROM reading date error
CH34	High Pressure Error	As high pressure, comp off over 10 times in 1 hour.

5. EXPLODED VIEW



REF #	DESCRIPTION	PART NO#	CP05G10A		NOTES
352390-2	GUIDE ASSEMBLY, AIR	67302743	1		
346811	AC MOTOR ASSY SINGLE	67400116	1		
359012	EVAP. FAN, TURBO	67302617	1		
W48602	CLAMP, SPRING	67302500	2		
149980	SHROUD CONDENSOR	67305534	1		
559011	FAN CONDENSOR	67302613	1		
349480	ORIFICE	67303414	1		
352390	GUIDE ASSEMBLY AIR	67302742	1		
749740	SILL PLATE GUIDE	67304010	1		
130910	CABINET	67303726	1		
249950	CONTROL CASE ASSY.	67305570	1		
237200	CONTROL PANEL	67305507	1		
W0CZZ	CAPACITOR	67300730	1		
268711-2	PCB ASSEMBLY MAIN	67307671	1		
268711-1	PCB ASSEMBLY DISP.	67307670	1		
567480	THERMISTOR	67307806	1		
264110	POWER CORD	67300020	1		
238310	ESCUTCHEON	67304815	1		
135312	GRILL ASSEMBLY FRONT	67302744	1		
135303	INLET GRILL	67306107	1		
145200	LINK	67304600	1		
152302	AIR FILTER	67304300	1		
731273	WINDOW INSTALL KIT	67306318	1		
132111-1	LEFT FRAME ASSY.	67303807	1		
132111-2	RIGHT FRAME ASSY.	67303801	1		
422100	DRAIN PIPE NIPPLE	67307000	1		
267110	REMOTE CONTROLL	67302250	1		



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