

TECHNICAL & SERVICE MANUAL

Series SEZ Ceiling Concealed R410A

Indoor unit
[Model names]

SEZ-A12AR

SEZ-A18AR

SEZ-A24AR

[Service Ref.]

SEZ-A12AR.TH

SEZ-A18AR.TH

SEZ-A24AR.TH

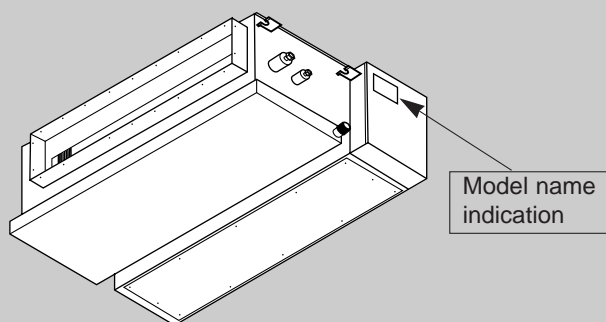
Revision :

- " 2. SPECIFICATIONS " has been modified.

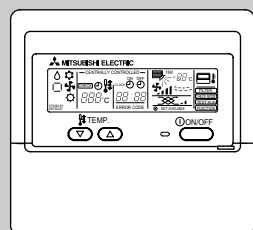
Note :

- This manual does not cover the following outdoor units. When servicing them, please refer to the service manual No.OC304 REVISED EDITION-A and this manual in a set.

- Please void OC303.



INDOOR UNIT



WIRED REMOTE
CONTROLLER

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Revision:

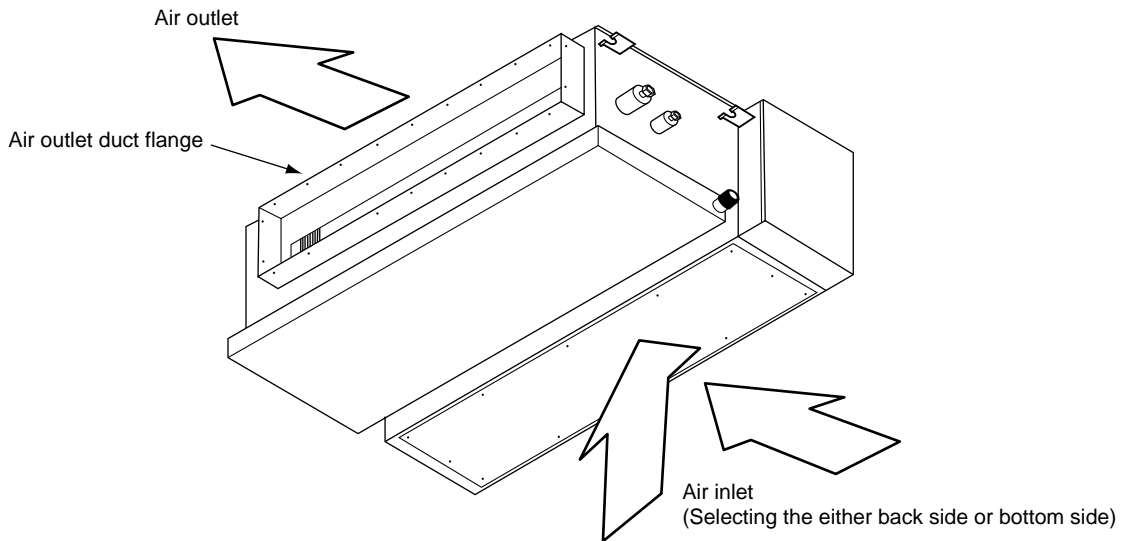
“ 2. SPECIFICATIONS ” has been modified on page 5 and 6.

Page	Revise point	Service Ref.	Incorrect	Correct
5	Electrical date	SEZ-A12AR.TH	33	48
5	Power input	SEZ-A18AR.TH	49	61
6	Rated frequency	SEZ-A24AR.TH	64	87

1

PART NAMES AND FUNCTIONS

Indoor Unit
SEZ-A12AR.TH
SEZ-A18AR.TH
SEZ-A24AR.TH



Wired remote controller

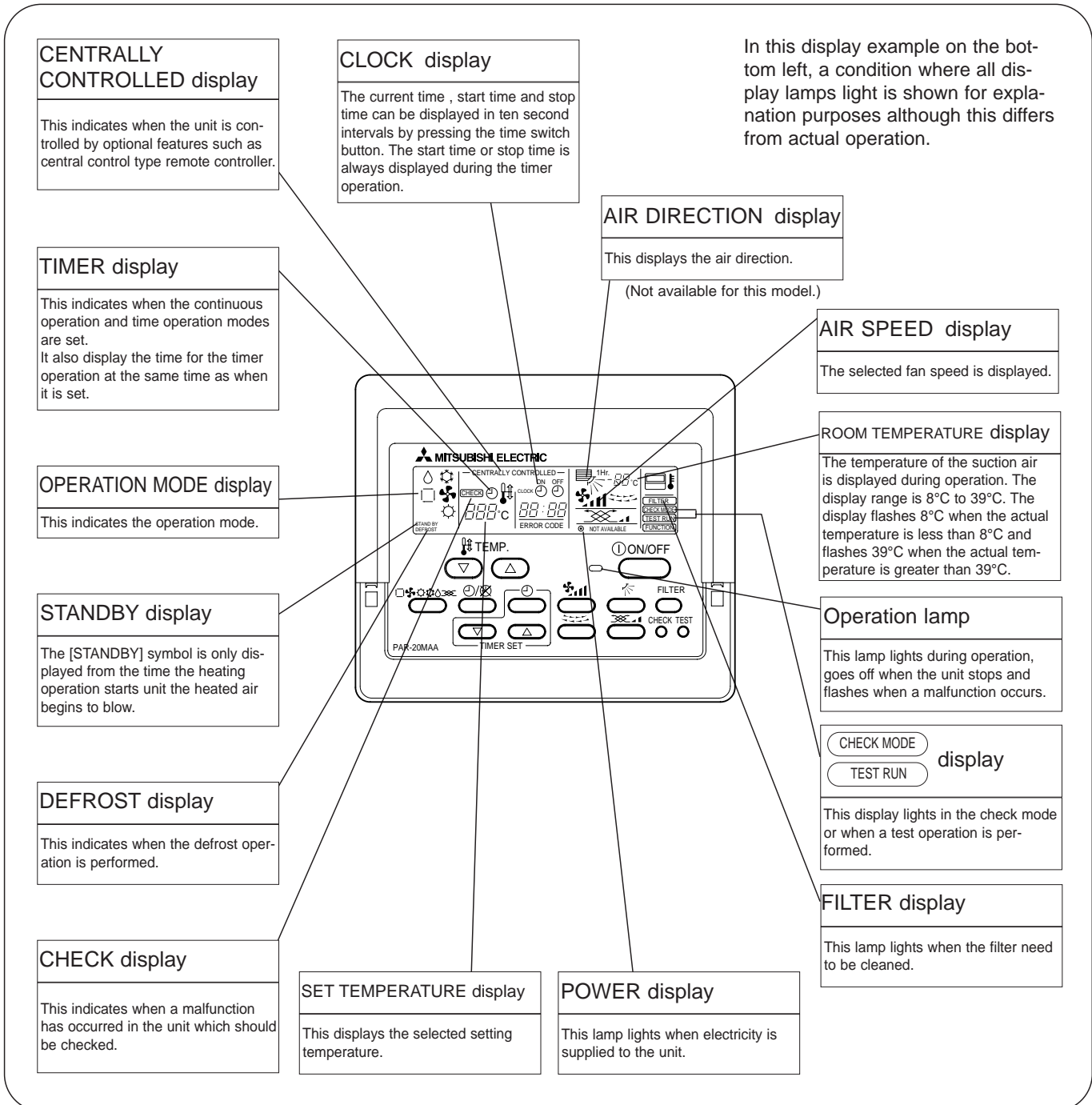
On the controls are set, the same operation mode can be repeated by simply pressing the ON/OFF button.

● Operation buttons

The diagram shows a wired remote controller with various buttons and a central display. The display shows 'MITSUBISHI ELECTRIC', 'CENTRALLY CONTROLLED', 'ON/OFF', '1HR', '88°C', 'CHECK', 'CLOCK', 'ERROR CODE', 'NOT AVAILABLE', and 'FUNCTION'. The buttons are labeled as follows:

- TEMP. ADJUSTMENT button**: This sets the room temperature. The temperature setting can be performed in 1°C units. Setting range: Cooling 19°C to 30°C, Heating 17°C to 28°C.
- TIME SETTING button**: This sets the current time, start time and stop time.
- FAN SPEED button**: This sets the ventilation fan speed.
- ON/OFF button**: This switches between the operation and stop modes each time it is pressed. The lamp on this button lights during operation.
- AIR DIRECTION button**: This adjusts the vertical angle of the ventilation. (Not available for this model.)
- FILTER button**: This resets the filter service indication display.
- CHECK-TEST RUN button**: Only press this button to perform an inspection check or test operation. Do not use it for normal operation.
- VENTILATION button**: This sets the ventilation fan speed. (Not available for this model.)
- LOUVER button**: This switch the horizontal fan motion ON and OFF. (Not available for this model.)
- OPERATION SWITCH button**: Press this button to switch the cooling, electronic dry (dehumidify), automatic and heating modes.
- TIMER button**: This switches between continuous operation and the timer operation.

● Display



Caution

- Only the Power display lights when the unit is stopped and power supplied to the unit.
- "NOT AVAILABLE" is displayed when the Air speed button are pressed. This indicates that this room unit is not equipped with the fan direction adjustment function and the louver function.
- When power is turned ON for the first time, it is normal that "H0" is displayed on the room temperature indication (For max. 2minutes). Please wait until this "H0" indication disappear then start the operation.

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SPECIFICATIONS

Indoor model			SEZ-A12AR.TH		SEZ-A18AR.TH	
Function			Cooling	Heating	Cooling	Heating
Power supply			Single phase 230V, 50Hz		Single phase 230V, 50Hz	
Capacity	Air flow (High/Low)	m ³ /h	780/600		1020/720	
Electrical data	Power outlet	A	10		20	
	Running current *1	A	0.21		0.27	
	Power input Rated frequency	W	48		61	
	Auxiliary heater	A(kW)	—		—	
	Power factor *1	%	94	95	97	98
	Fan motor current *1	A	0.21		0.27	
Fan motor	Model		PK6V19-EF		PK6V32-EF	
	Winding resistance (at20°C)	Ω	WHT-BLK : 251.4 BLU-YLW : 26.5 BRN-RED : 50.0	BLK-BLU : 19.9 YLW-BRN : 13.2	WHT-BLK : 161.9 BLU-YLW : 18.7 BRN-RED : 39.2	BLK-BLU : 50.3 YLW-BRN : 8.0
	Dimensions W×H×D	mm	1100×270×700		1100×270×700	
	Weight	kg	33.5		33.5	
Special remarks	Air direction		1		1	
	Sound level (High/Low)	dB(A)	35/30		39/31	
	Fan speed (High/Low)	rpm	770/630		840/640	
	Fan speed regulator		3		3	
	Thermistor RT11 (at 25°C)	kΩ	10		10	
	Thermistor RT12 (at 25°C)	kΩ	10		10	
	Thermistor RT13 (at 25°C)	kΩ	10		10	
	Remote controller model		PAR-20MAA		PAR-20MAA	

NOTE : Test conditions are based on ISO 5151
 Cooling : Indoor D.B. 27°C W.B. 19°C
 Outdoor D.B. 35°C W.B. 24°C
 Heating : Indoor D.B. 20°C W.B. 5°C
 Outdoor D.B. 7°C W.B. 6°C
 Refrigerant piping length (one way): 5m
 *1 Measured under rated operating frequency.

Specifications and rating conditions of main electric parts

INDOOR UNIT

Item	Model	SEZ-A12AR.TH	SEZ-A18AR.TH	SEZ-A24AR.TH
Indoor fan capacitor	(C1)	SEZ-A12/18AR.TH : 2.5μF 440V SEZ-A24AR.TH : 3.0μF 440V		
Fuse	(FUSE)	250V 3.15A		
Varistor	(ZNR1)	ERZV10D471		
Terminal block	(TB)	POWER SUPPLY : 3P TO OUTDOOR UNIT : 4P		
Contactors	(52C)	G4A-1A-E-PS 12V DC		
Indoor fan motor thermal fuse		145°C ±2°C		



Indoor model			SEZ-A24AR.TH	
Function			Cooling	Heating
Power supply			Single phase 230V, 50Hz	
Capacity	Air flow (High/Low)	m ³ /h	1200/720	
Electrical data	Power outlet	A	20	
	Running current *1	A	0.34	
	Power input Rated frequency	W	87	
	Auxiliary heater	A(kW)	—	
	Power factor *1	%	98	98
	Fan motor current *1	A	0.34	
Fan motor	Model	PK6V50-EF		
	Winding resistance (at20°C)	Ω	WHT-BLK : 101.1 BLK-BLU : 56.1 BLU-YLW : 14.7 YLW-BRN : 6.7 BRN-RED : 28.2	
Dimensions W×H×D		mm	1100×270×700	
Weight		kg	33.5	
Special remarks	Air direction		1	
	Sound level(High/Low)	dB(A)	43/32	
	Fan speed(High/Low)	rpm	890/660	
	Fan speed regulator		3	
	Thermistor RT11 (at 25°C)	kΩ	10	
	Thermistor RT12 (at 25°C)	kΩ	10	
	Thermistor RT13 (at 25°C)	kΩ	10	
Remote controller model			PAR-20MAA	

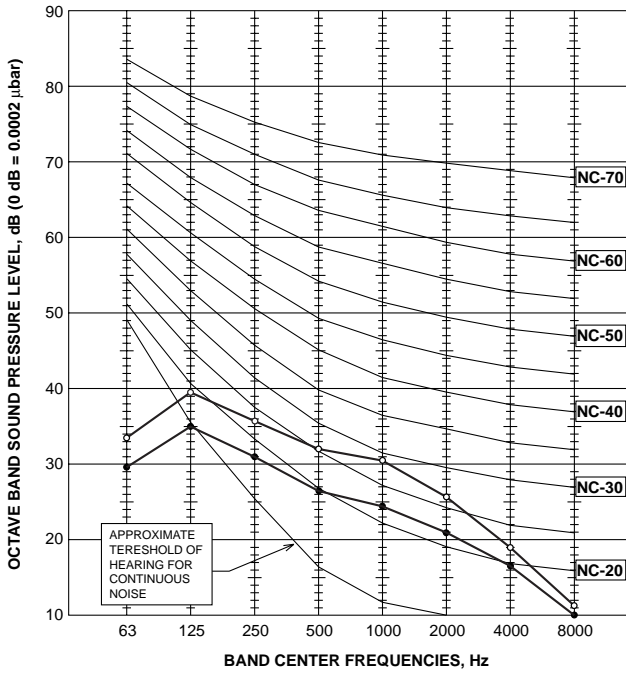
NOTE : Test conditions are based on ISO 5151
Cooling : Indoor D.B. 27°C W.B. 19°C
Outdoor D.B. 35°C W.B. 24°C
Heating : Indoor D.B. 20°C W.B. 15°C
Outdoor D.B. 7°C W.B. 6°C
Refrigerant piping length (one way): 5m
*1 Measured under rated operating frequency.

NOISE CRITERION CURVES

SEZ-A12AR.TH

<50Hz>

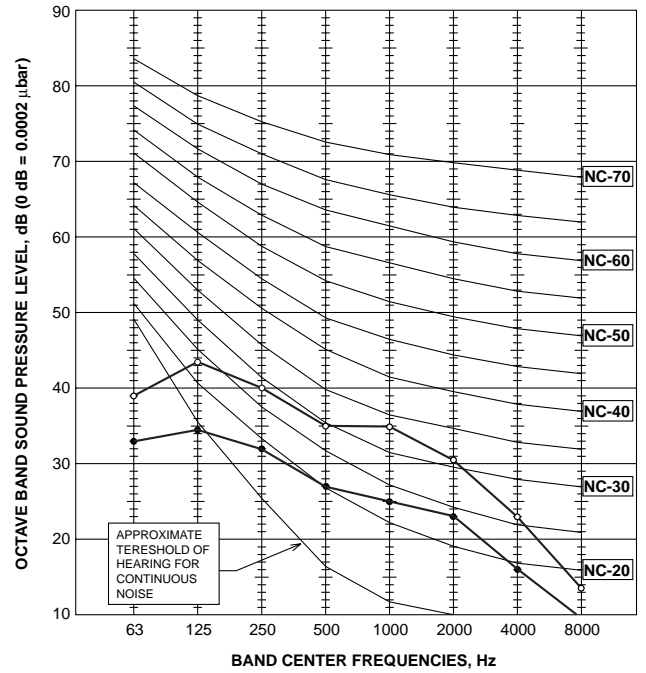
NOTCH	SPL(dB)	LINE
Hi	35	○—○
Lo	30	●—●



SEZ-A18AR.TH

<50Hz>

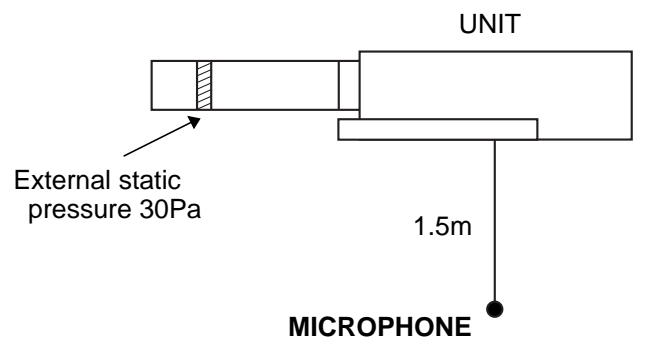
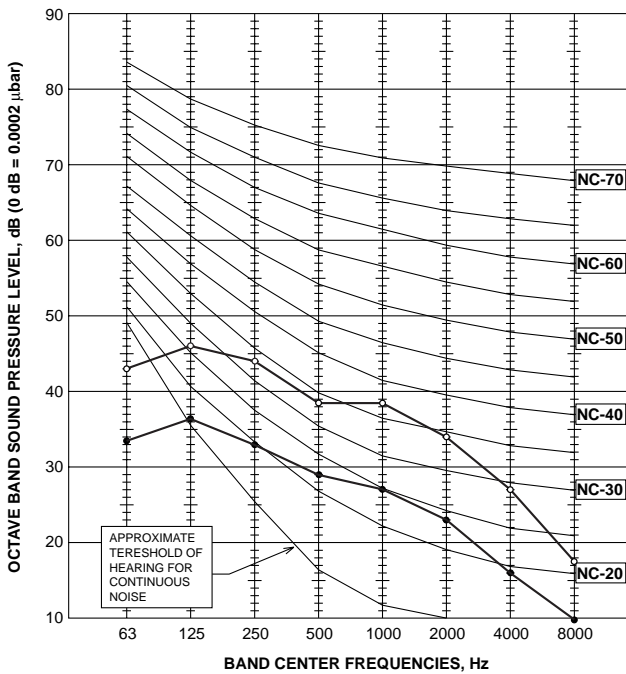
NOTCH	SPL(dB)	LINE
Hi	39	○—○
Lo	31	●—●



SEZ-A24AR.TH

<50Hz>

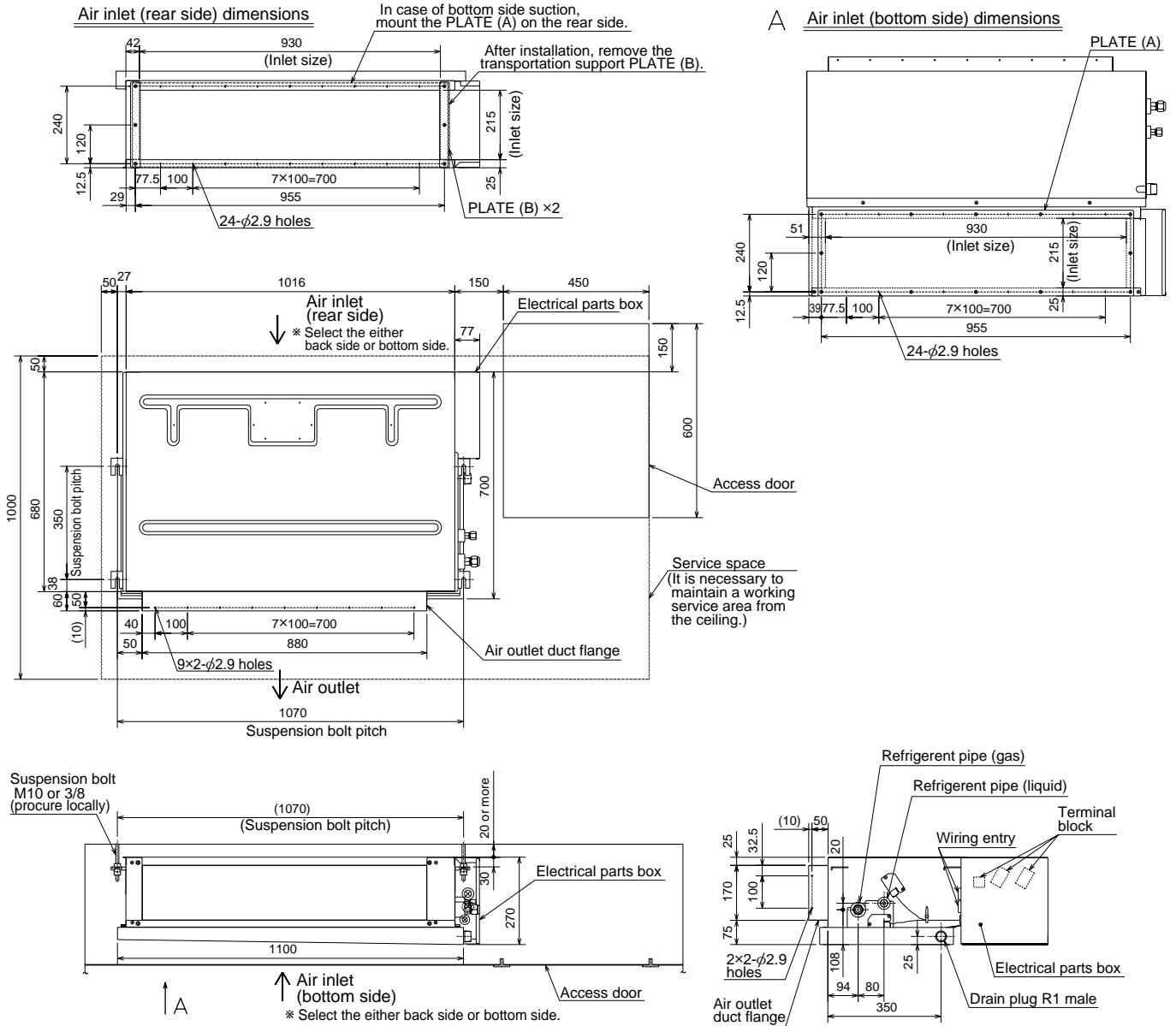
NOTCH	SPL(dB)	LINE
Hi	43	○—○
Lo	32	●—●



NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

SEZ-A12AR.TH
SEZ-A18AR.TH
SEZ-A24AR.TH

Unit : mm

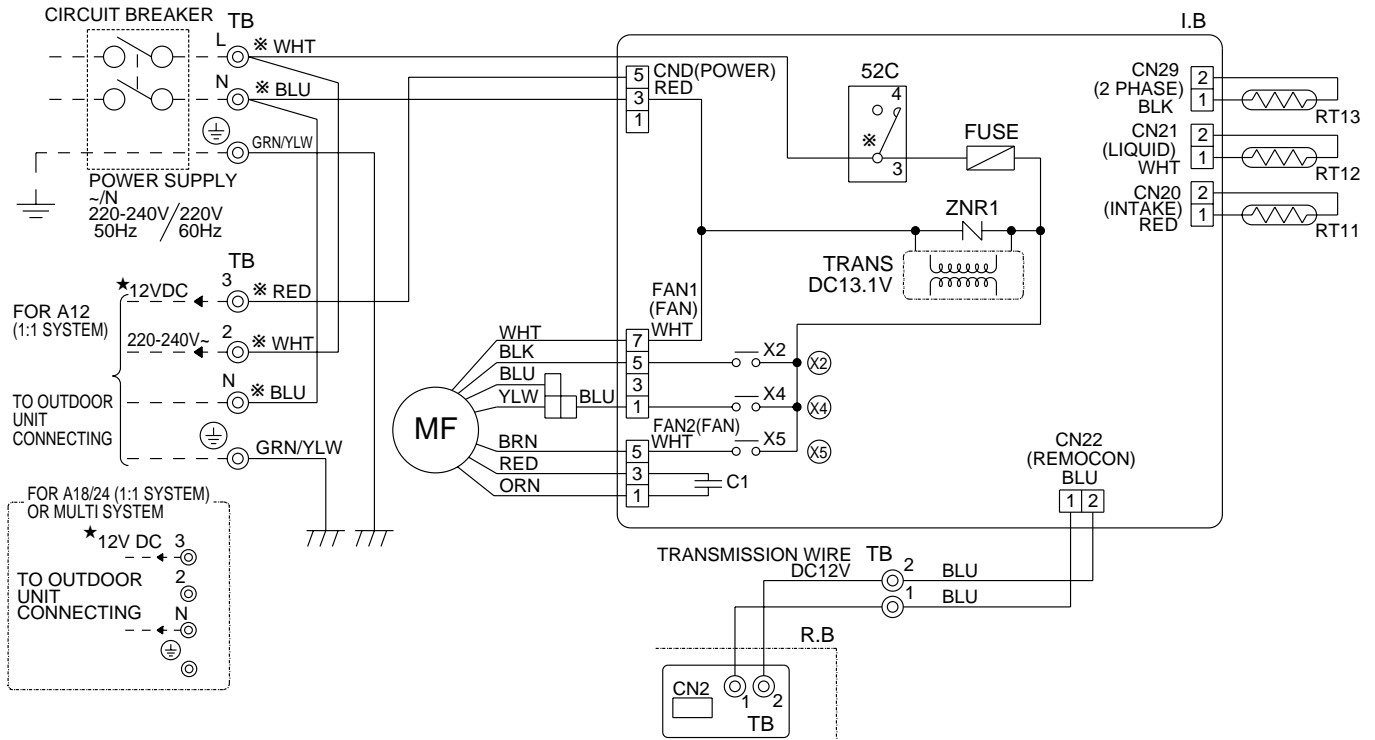


Models	Refrigerent pipe (liquid)	Refrigerent pipe (gas)
SEZ-A12AR	φ6.35mm flared connection 1/4F	φ9.52mm flared connection 3/8F
SEZ-A18AR	φ6.35mm flared connection 1/4F	φ12.7mm flared connection 1/2F
SEZ-A24AR	φ6.35mm flared connection 1/4F	φ15.88mm flared connection 5/8F

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WIRING DIAGRAM

SEZ-A12AR.TH
SEZ-A18AR.TH
SEZ-A24AR.TH



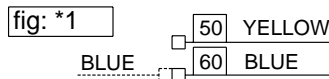
[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	MF	FAN MOTOR
C1	FAN MOTOR CAPACITOR	RT11	ROOM TEMPERATURE THERMISTOR
FUSE	FUSE(3.15A)	RT12	PIPE TEMPERATURE THERMISTOR / LIQUID
X2,X4,X5	RELAY(FAN MOTOR)	RT13	CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR
ZNR1	VARISTOR	TB	TERMINAL BLOCK
52C	COMPRESSOR CONTACTOR	R.B	REMOTE CONTROLLER BOARD

★ The 12V DC is NOT always against the ground. Terminal 3 has 12V DC against terminal N. However, between 3 and 2, these terminals are NOT electrically insulated by the transformer or other device.

NOTES:

1. Since the indoor fan motor(MF) is connected with 50Hz power, if 60Hz power is used, change the wiring connection showing fig: *1
Indoor Fan Motor(MF) for 60Hz

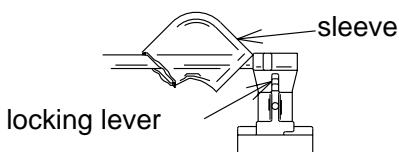


2. About the outdoor side electric wiring refer to the outdoor unit electric wiring diagram for servicing.
3. Use copper conductors only. (For field wiring)
4. Symbols below indicate.

⊙ : Terminal block □ □ □ : Connector

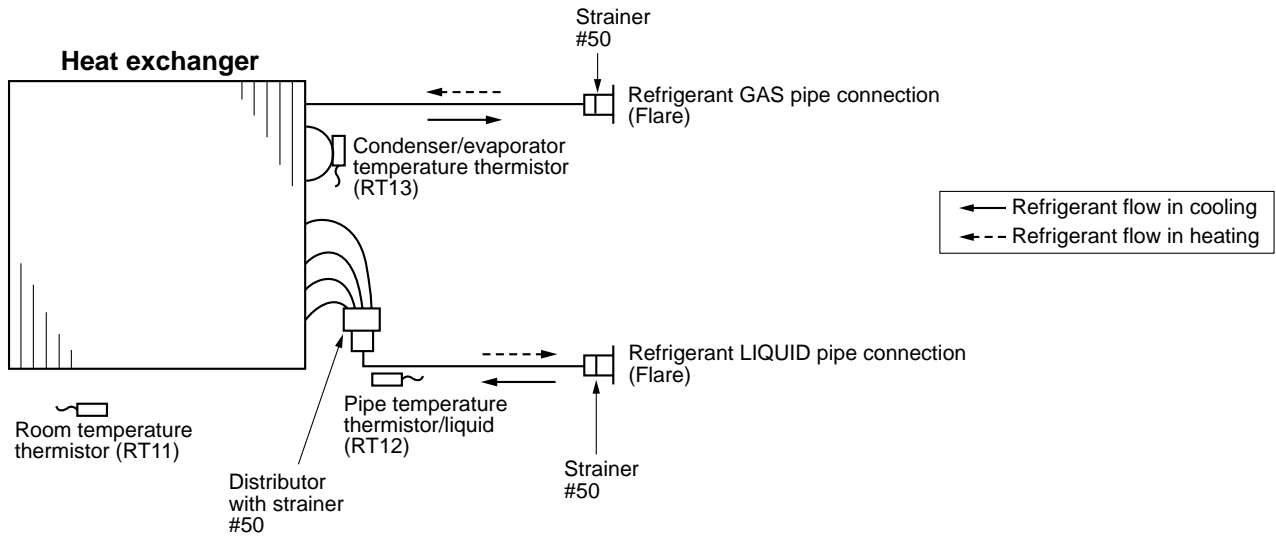
How to remove the terminals shown at " * " mark.

" * " shows the terminals with a lock mechanism, so they cannot be removed when you pull the lead wire. Be sure to pull the wire by pushing the locking lever (projected part) of the terminal with a finger.



① Slide the sleeve.
② Pull the wire while pushing the locking lever.

SEZ-A12AR.TH
SEZ-A18AR.TH
SEZ-A24AR.TH



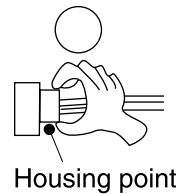
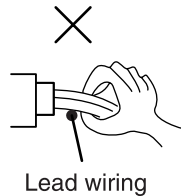
6-1. Cautions on troubleshooting

(1) Before troubleshooting, check the followings:

- ① Check the power supply voltage.
- ② Check the indoor/outdoor connecting wire for mis-wiring.

(2) Take care the followings during servicing.

- ① Before servicing the air conditioner, be sure to first turn off the remote controller to stop the main unit, and then turn off the breaker.
- ② When removing the indoor controller board, hold the edge of the board with care NOT to apply stress on the components.
- ③ When connecting or disconnecting the connectors, hold the housing of the connector. DO NOT pull the lead wires.

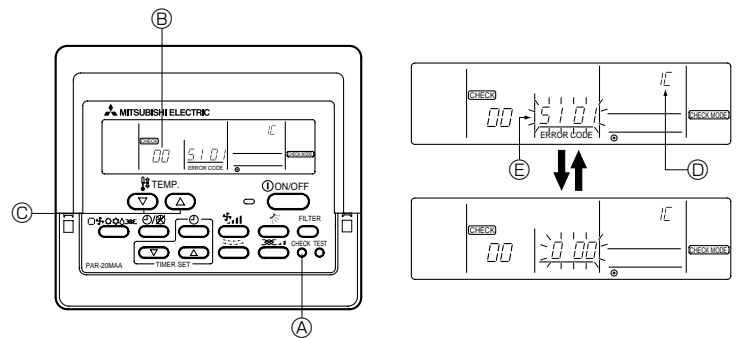


6-2. Self-check function

Wired remote controller

- (1) Turn on the power.
- (2) Press the [CHECK] button twice.
- (3) Set refrigerant address with [TEMP] button if system control is used.
- (4) Press the [ON/OFF] button to stop the self-check.

- Ⓐ CHECK button
- Ⓑ Refrigerant address
- Ⓒ TEMP button
- Ⓓ IC : Indoor unit
OC : Outdoor unit
- Ⓔ Check code



• For description of each check code, refer to the following table.

① Check code	Symptom
5101	Room temperature thermistor error
5102	RT12, RT13, Outdoor thermistor error
2503	Drain sensor error
2502	Drain pump error
1503	Freezing safeguard operation
0405, 1501, 4210, 5102	Outdoor unit error
6831~6834	Signal error between remote controller and indoor units
6800	Communication error between indoor and outdoor units
----	No alarm history
F F F F	No unit

• On wired remote controller

- ① Check code displayed in the LCD.

6-3. Trouble shooting

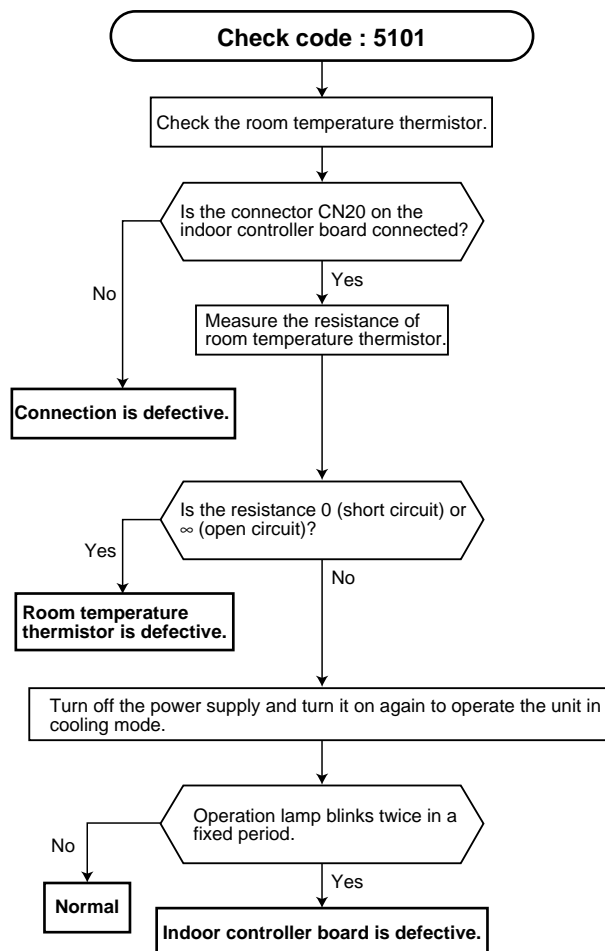
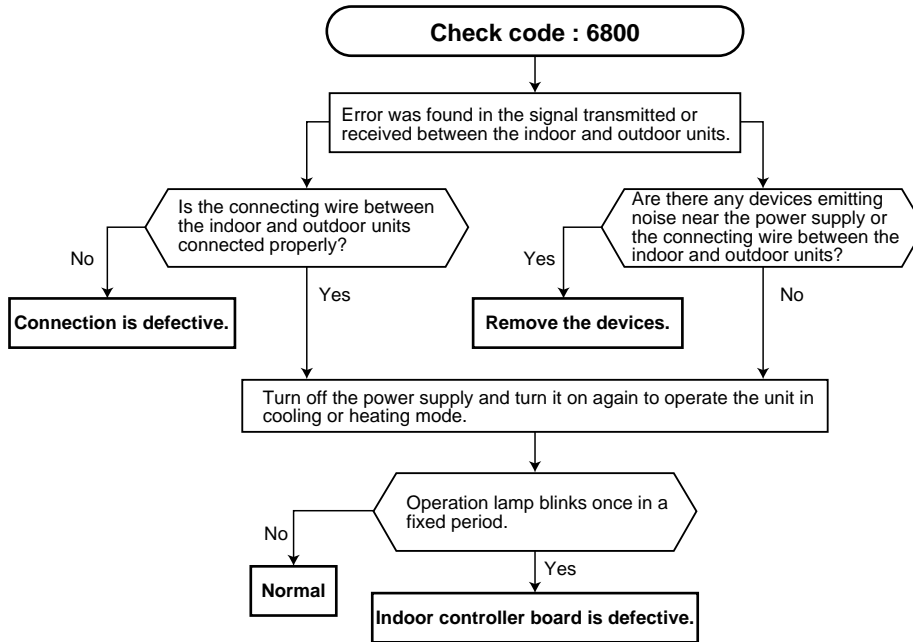
(1) In case of being indicated irregularity on the self diagnoses

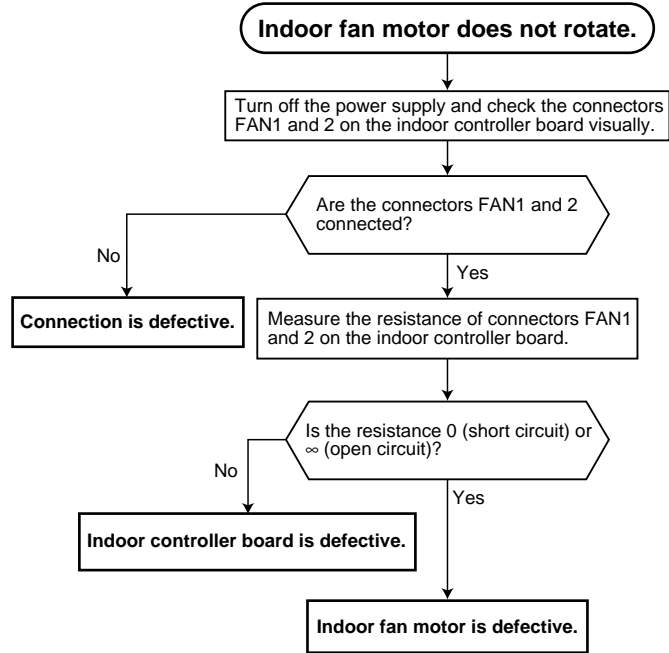
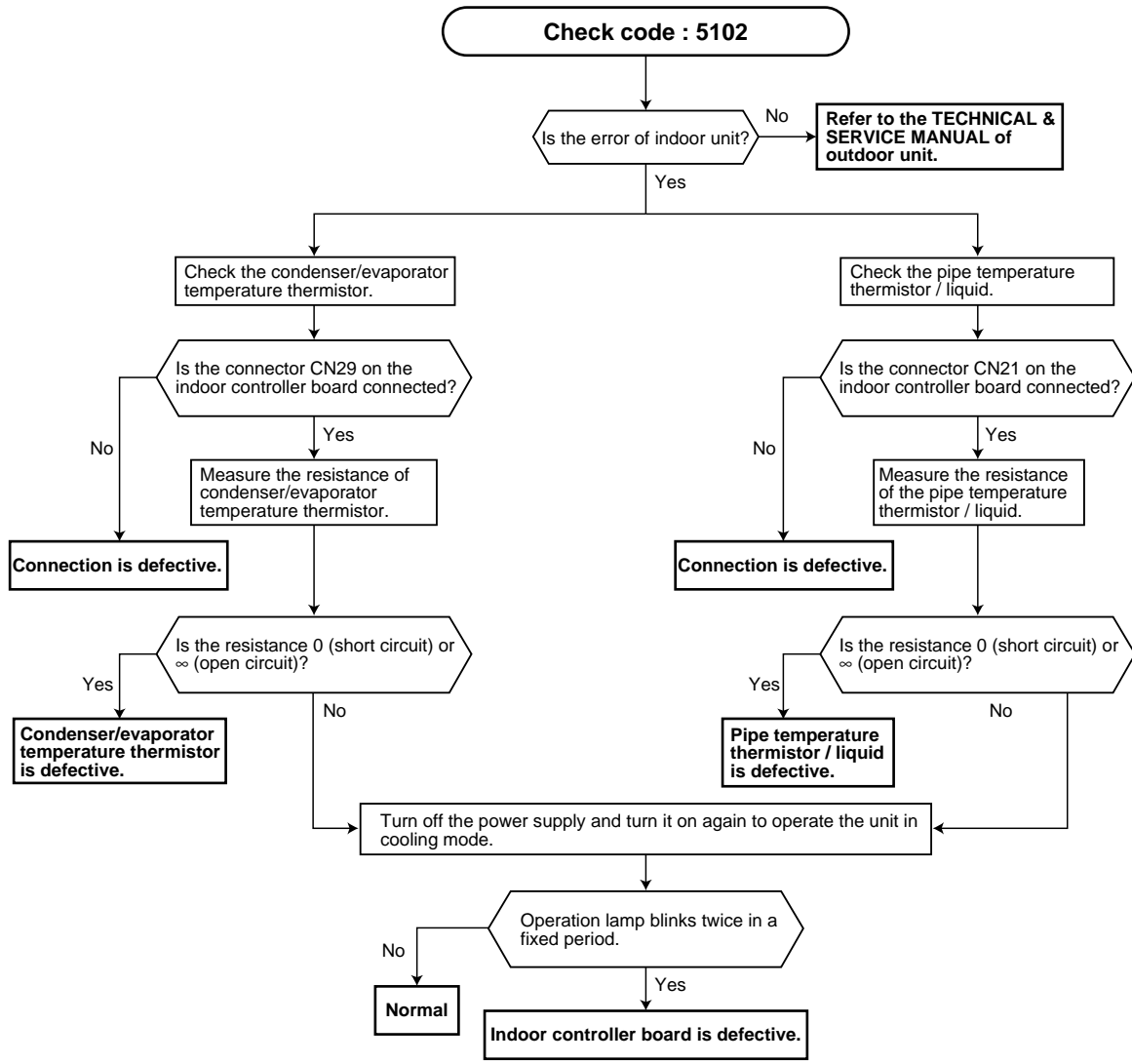
Check code	Phenomenon	Cause	Countermeasure
6800	Mis-wiring	Wiring between the indoor and outdoor is coming off.	Check the wiring out between the indoor and outdoor.
		Difference of wiring polarity between the indoor and outdoor.	
	Indoor-outdoor signal error	Trouble of the outdoor inverter P.C. board.	Check the outdoor inverter P.C. board. Refer to the TECHNICAL & SERVICE MANUAL of outdoor unit.
		Trouble of the Indoor controller board.	Exchange the Indoor controller board.
5102	Pipe temperature thermistor / Liquid.	Mis-connecting of the pipe temperature thermistor / Liquid.	Reinsert the connector (CN21).
		Trouble of the pipe temperature thermistor / Liquid.	Check the resistance value of the thermistor.
		Trouble of the Indoor controller board.	Exchange the Indoor controller board.
	Condenser / evaporator temperature thermistor	Mis-connecting of the condenser / evaporator temperature thermistor.	Reinsert the connector (CN29).
		Trouble of the condenser / evaporator temperature thermistor.	Check the resistance value of the thermistor.
		Trouble of the Indoor controller board.	Exchange the Indoor controller board.
	Outdoor thermistor	Mis-connecting of the outdoor thermistor.	Reinsert the connector.
		Trouble of the outdoor thermistor.	Check the resistance value of the thermistor.
		Trouble of the outdoor inverter P.C. board.	Exchange the outdoor inverter P.C. board.
	5101	Room temperature thermistor	Mis-connecting of the room temperature thermistor.
Trouble of the room temperature thermistor.			Check the resistance value of the thermistor.
Trouble of the Indoor controller board.			Exchange the Indoor controller board.
1503	Freezing protection is working.	1) Short cycle of air cycle 2) Dirty air filter 3) Damaged fan 4) Abnormal refrigerant	1) Clear obstructions from air cycle. 2) Clean the air filter 3) Check the fan 4) Check the refrigerant temperature.
0405 1501 4210	Malfunction of outdoor unit	Malfunction of outdoor unit	Refer to the TECHNICAL & SERVICE MANUAL of outdoor unit.

(2) Other case

Phenomenon	Cause	Countermeasure
Not working of remote controller switch ON/OFF	A connector attaching the panel to the body is not connected.	Connect it.
	Short circuit the protecting parts in the Indoor controller board.	Check the varistor (ZNR1) and fuse (FUSE) out in the Indoor controller board.
	Trouble of the Indoor controller board.	Check the Indoor controller board out.
	Wiring between the indoor and the wired remote controller is coming off.	Check the wiring between the Indoor and the wired remote controller.
	Trouble of the remote controller.	Exchange the remote controller.
Working the Indoor units and not working the outdoor units.	Wiring between the indoor and outdoor is coming off.	Check the wiring out between the indoor and outdoor.
	Difference of wiring polarity between the indoor and outdoor.	
	Trouble of the outdoor inverter P.C. board.	Check the outdoor inverter P.C. board.
	Trouble of the contactor (52C).	Exchange the contactor.
	Malfunction of outdoor unit.	Refer to the TECHNICAL & SERVICE MANUAL of outdoor unit.
Not rotating the fan in the indoor unit.	Fan motor connector is coming off.	Check the connector out.
	Trouble of the Indoor controller board.	Check the fan motor output of the Indoor controller board.
	Trouble of the fan motor.	Check the resistance value between the each tap of fan motor.
Horizontal vane doesn't work.	A connector attaching the panel to the body is not connected.	Connect it.
	Fixing of horizontal vane.	Check if the connector for vane motor is connected.

Check of indoor controller board and indoor fan motor

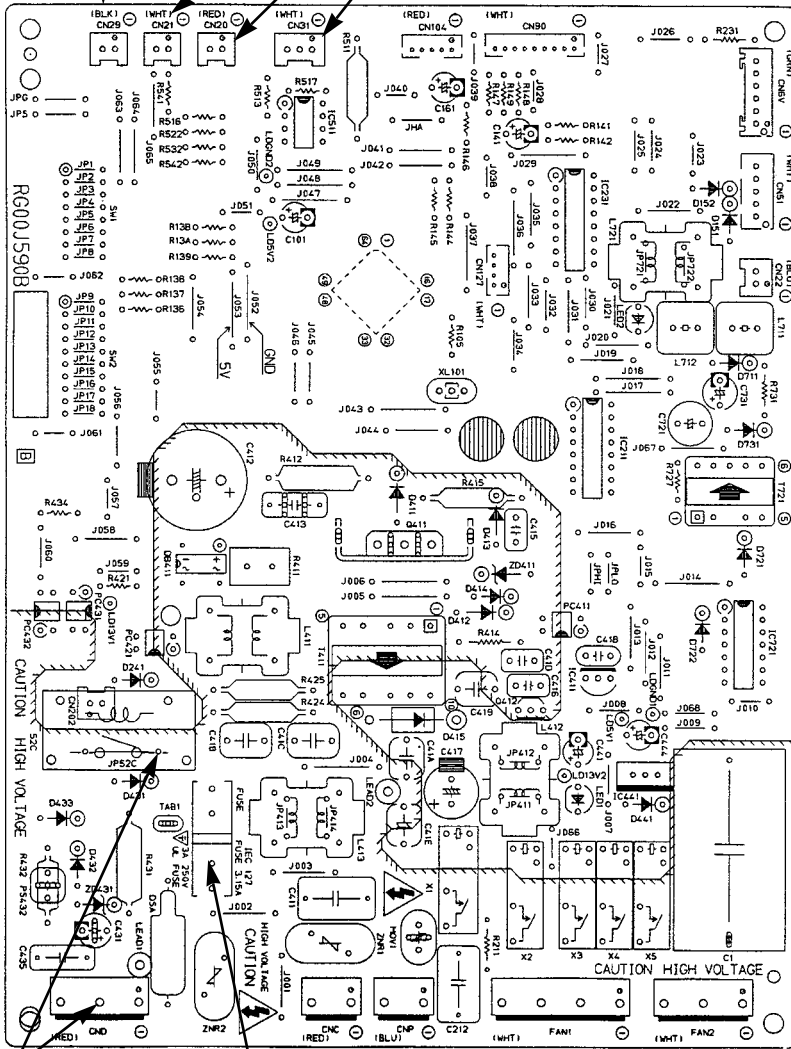




6-4. Test point of indoor controller board

Indoor controller board

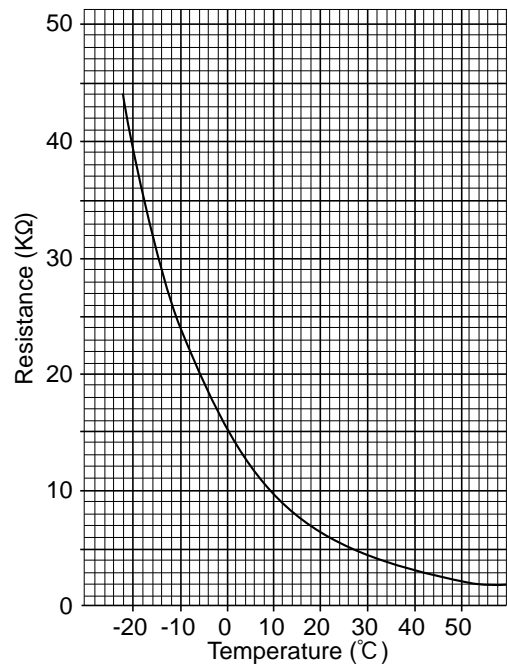
Condenser/evaporator temperature thermistor (RT13)
 Pipe temperature thermistor/liquid (RT12)
 Room temperature thermistor (RT11)
 Drain sensor (DS)



Power supply input 220-240V AC

Fuse 250V AC 3.15A

- Room temperature thermistor (RT11)
- Pipe temperature thermistor/liquid (RT12)
- Condenser/evaporator temperature thermistor (RT13)
- < Thermistor for lower temperature >

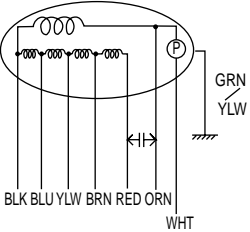


6-5. Trouble criterion of main parts

SEZ-A12AR.TH

SEZ-A18AR.TH

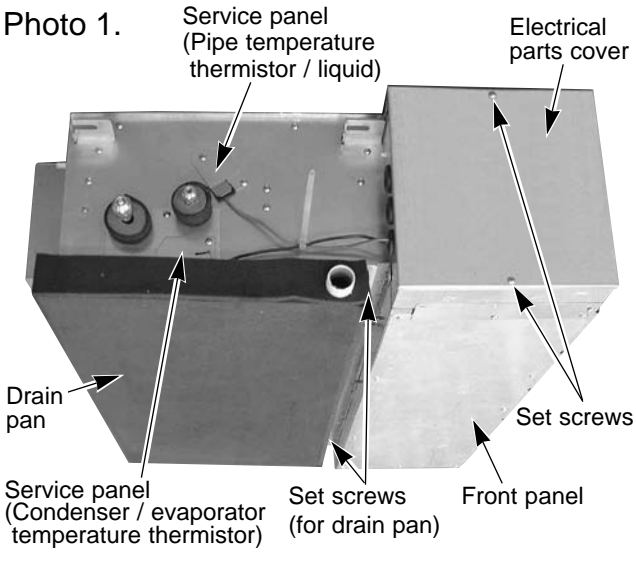
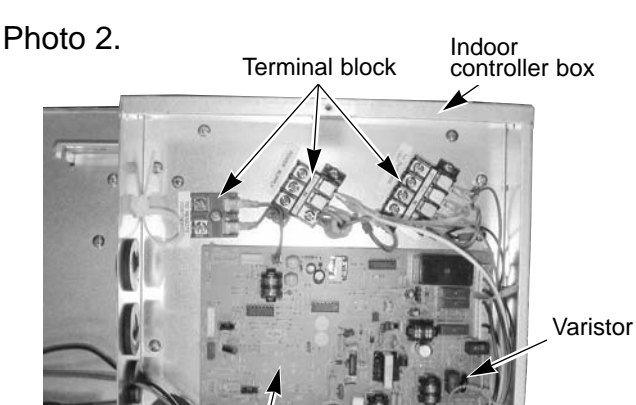
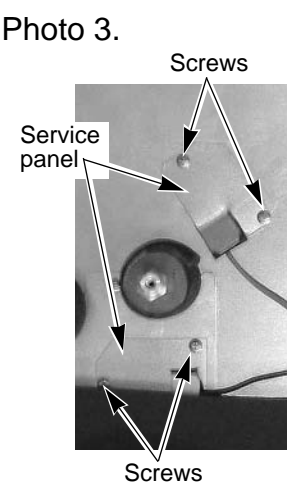
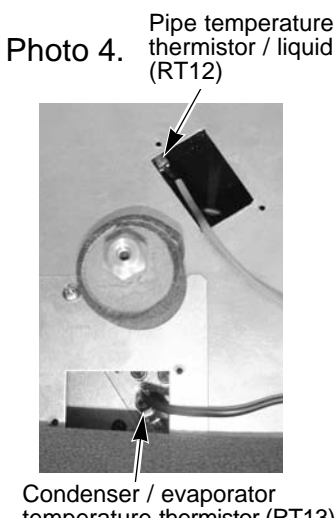
SEZ-A24AR.TH

Part name	Check method and criterion							
Room temperature thermistor (RT11)	Measure the resistance with a tester. (Part temperature 10°C ~ 30°C)							
Pipe temperature thermistor/liquid (RT12)					Normal		Abnormal	
Condenser/evaporator temperature thermistor (RT13)					8kΩ~20kΩ		Opened or short-circuited	
Indoor fan motor (MF)  Ⓢ : Thermal fuse 145 ± 2°C	Measure the resistance between the terminals with a tester. (Coil wiring temperature 10°C ~ 30°C)							
		Normal			Abnormal			
		A12AR	A18AR	A24AR	Opened or short-circuited			
WHT-BLK	241.4~261.2Ω	155.5~168.2Ω	97.0~105Ω					
BLK-BLU	19.0~20.6Ω	48.3~52.3Ω	53.8~58.3Ω					
BLU-YLW	25.4~27.5Ω	17.8~19.4Ω	14.0~15.3Ω					
YLW-BRN	12.6~13.7Ω	7.6~8.3Ω	6.3~6.9Ω					
BRN-RED	47.9~51.9Ω	37.6~40.7Ω	27.0~29.3Ω					

SEZ-A12AR.TH

SEZ-A18AR.TH

SEZ-A24AR.TH

OPERATING PROCEDURE	PHOTOS
<p>1. Removing the electrical parts</p> <p>(1) Remove the 2 screws and the electrical parts cover. (See Photo 1.)</p> <ul style="list-style-type: none"> ● Indoor controller board (I.B) ● Compressor contactor (52C) ● Fuse (FUSE) ● Varistor (ZNR1) ● Terminal block (TB) <p>(See Photo 2.)</p>	<p>Photo 1.</p>  <p>Service panel (Pipe temperature thermistor / liquid)</p> <p>Electrical parts cover</p> <p>Drain pan</p> <p>Set screws</p> <p>Service panel (Condenser / evaporator temperature thermistor)</p> <p>Set screws (for drain pan)</p> <p>Front panel</p>
<p>2. Removing the pipe temperature thermistor (RT12)</p> <p>(1) Remove the electrical parts cover. (Refer to 1.)</p> <p>(2) Remove the 2 screws and the service panel. (See Photo 3.)</p> <p>(3) Remove the thermistor (RT12) from the holder. (See Photo 4.)</p> <p>(4) Remove the connector (CN21) from the indoor controller board and pull the white wire of thermistor (RT12) out.</p>	<p>Photo 2.</p>  <p>Terminal block</p> <p>Indoor controller box</p> <p>Varistor</p> <p>Fuse</p> <p>Indoor controller board</p> <p>Compressor contactor</p>
<p>3. Removing the condenser / evaporator temperature thermistor (RT13)</p> <p>(1) Remove the electrical parts cover. (Refer to 1.)</p> <p>(2) Remove the 2 screws and the service panel. (See Photo 3.)</p> <p>(3) Remove the thermistor (RT13) from the holder. (See Photo 4.)</p> <p>(4) Remove the connector (CN29) from the indoor controller board and pull the black wire of thermistor (RT13) out.</p>	<p>Photo 3.</p>  <p>Screws</p> <p>Service panel</p> <p>Screws</p> <p>Photo 4.</p>  <p>Pipe temperature thermistor / liquid (RT12)</p> <p>Condenser / evaporator temperature thermistor (RT13)</p>

OPERATING PROCEDURE

4. Removing the room temperature thermistor (RT11)

- (1) Remove the electrical parts cover. (Refer to 1.)
- (2) Remove the front panel at fan side. (12 screws)
(See Photo 1.)
- (3) Remove the thermistor (RT11) from the separator (panel).
(See Photo 6.)
- (4) Disconnect the connector (CN20) from the indoor controller board and pull the lead wire of thermistor (RT11) out.

5. Removing the sirocco fan and the fan motor (MF).

- (1) Remove the electrical parts cover. (Refer to 1.)
- (2) Remove the front panel at fan side. (12 screws)
(See Photo 1.)
- (3) Disconnect the fan motor connector (FAN1, FAN2) from the indoor controller board.
(See Photo 2.)
- (4) Undo the 4 claws and remove the fan claws. (down side)
<Either left or right>
(See Photo 5.)
- (5) Remove the motor bands.
<A screw each on left and right.>
(See Photo 5.)
- (6) Disconnect the earth wire from the fan motor leg.
(See Photo 7.)
- (7) Remove the fan motor and the sirocco fan by assembly.
(See Photo 7.)
- (8) Unscrew the setting screw and remove the sirocco fan.
<Either left or right>
(See Photo 7.)

PHOTOS

Photo 5.

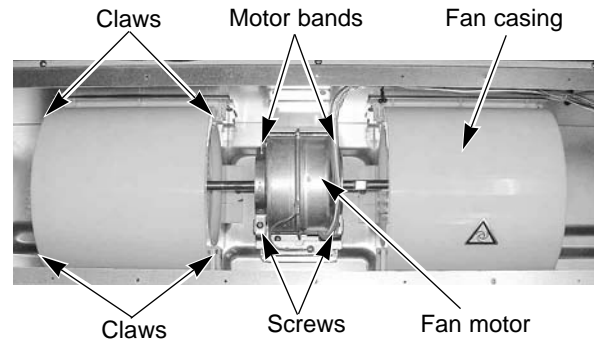


Photo 6.

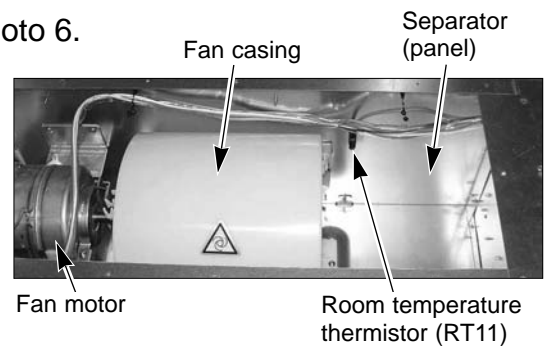
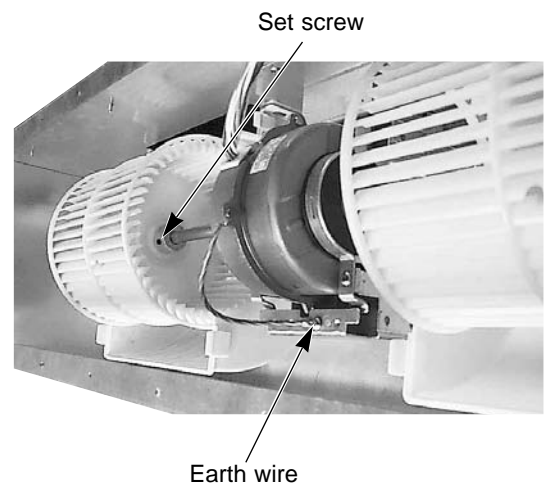
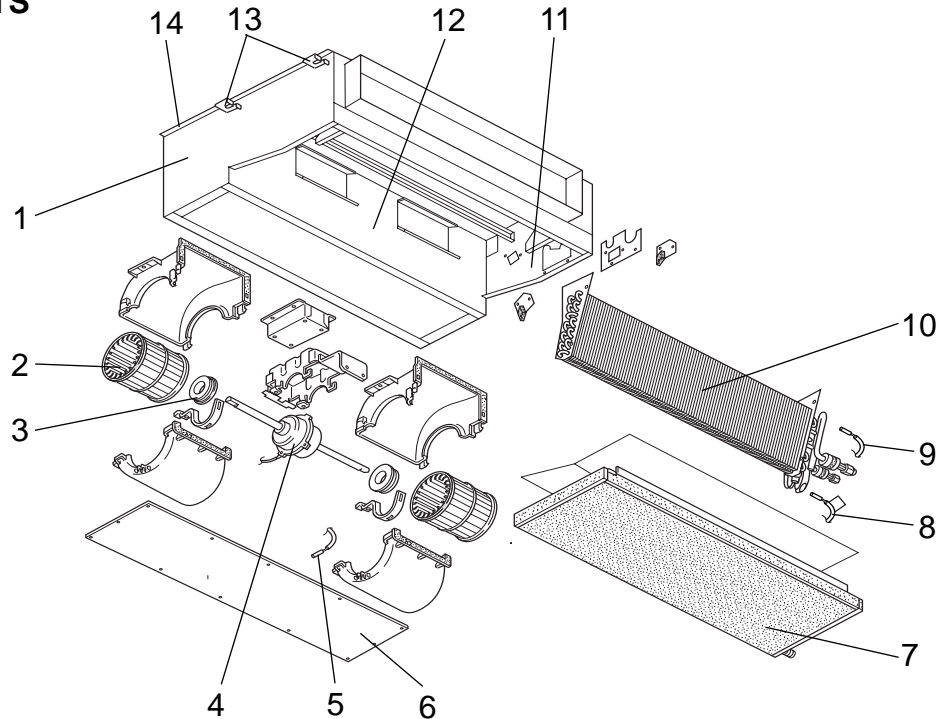


Photo 7.





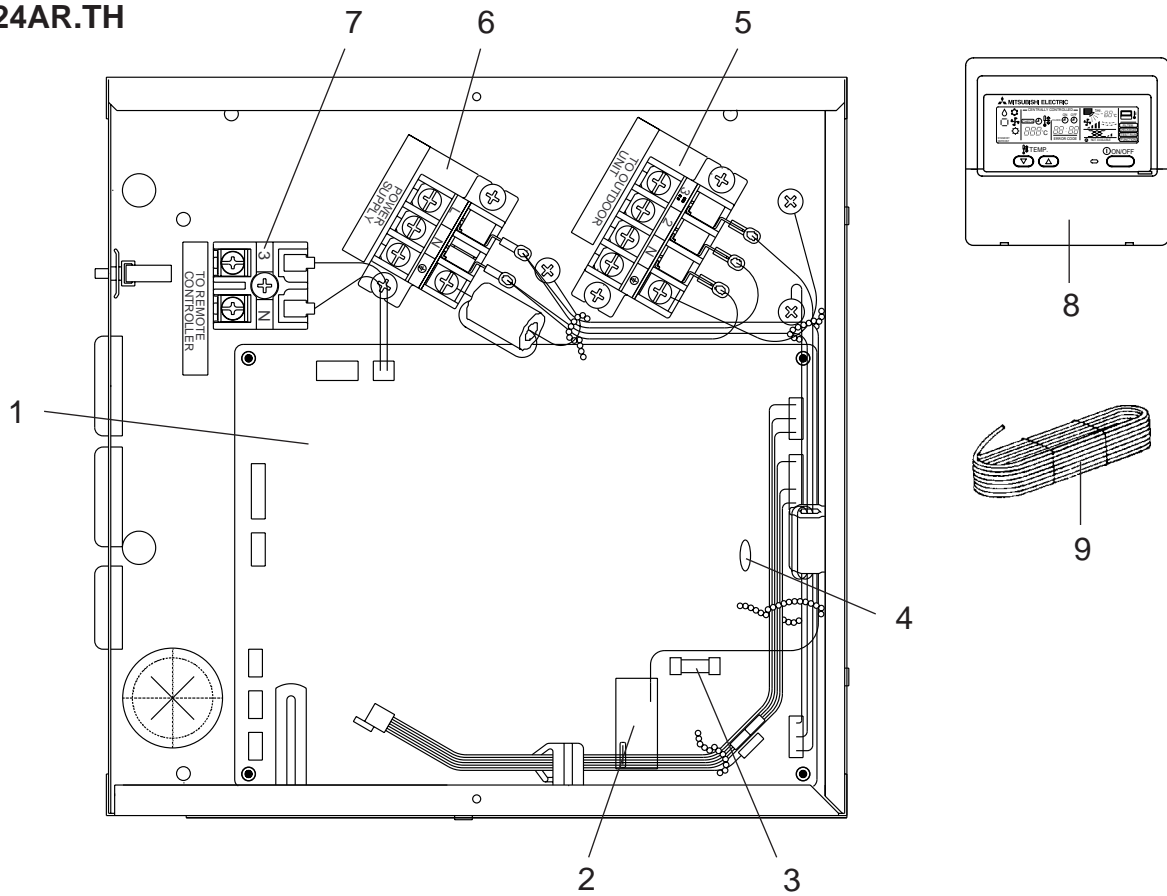
**INDOOR UNIT
STRUCTURAL PARTS
SEZ-A12AR.TH
SEZ-A18AR.TH
SEZ-A24AR.TH**



Part number that is circled is not shown in the illustration.

No.	Parts No.	Parts name	Specification	Q'ty/set			Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				SEZ-						Unit	Amount
				A12AR.TH	A18AR.TH	A24AR.TH					
1	E07 039 086	LEFT SIDE PANEL		1	1	1					
2	E07 039 500	SIROCCO FAN		2	2	2					
3	E02 179 505	FAN MOTOR RUBBER MOUNT		2	2	2	<2PCS/SET>				
4	E07 039 300	FAN MOTOR	PK6V19-EF	1				MF			
	E07 040 300	FAN MOTOR	PK6V32-EF		1			MF			
	E07 041 300	FAN MOTOR	PK6V50-EF			1		MF			
5	E07 143 308	ROOM TEMPERATURE THERMISTOR		1	1	1		RT11			
6	E07 039 000	FRONT PANEL		1	1	1					
7	E07 039 700	DRAIN PAN		1	1	1					
8	E07 143 309	CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR		1	1	1		RT13			
9	E07 136 307	PIPE TEMPERATURE THERMISTOR / LIQUID		1	1	1		RT12			
10	E07 143 620	INDOOR HEAT EXCHANGER		1							
	E07 144 620	INDOOR HEAT EXCHANGER			1						
	E07 145 620	INDOOR HEAT EXCHANGER				1					
11	E07 143 085	RIGHT SIDE PANEL		1	1	1					
12	E07 143 293	SEPARATOR ASSY		1	1	1					
13	E07 039 809	LEFT LEG		2	2	2					
14	E07 039 290	BASE		1	1	1					
15	E07 039 808	RIGHT LEG		2	2	2					

**INDOOR UNIT
ELECTRICAL PARTS
SEZ-A12AR.TH
SEZ-A18AR.TH
SEZ-A24AR.TH**



Part numbers that is circled is not shown in the illustration.

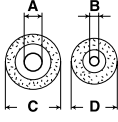
No.	Parts No.	Parts name	Specification	Q'ty/set			Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				SEZ-						Unit	Amount
				A12AR.TH	A18AR.TH	A24AR.TH					
1	E07 143 447	INDOOR CONTROLLER BOARD		1				I.B			
	E07 144 447	INDOOR CONTROLLER BOARD			1			I.B			
	E07 145 447	INDOOR CONTROLLER BOARD				1		I.B			
2	E07 140 340	COMPRESSOR CONTACTOR		1	1	1		52C			
3	E02 127 382	FUSE	250/3.15A	1	1	1		FUSE			
4	E02 661 385	VARISTOR		1	1	1		ZNR1			
5	E02 257 375	TERMINAL BLOCK	4P	1	1	1		TB			
6	E02 367 377	TERMINAL BLOCK	3P	1	1	1		TB			
7	E02 007 375	TERMINAL BLOCK	2P	1	1	1		TB			
8	E07 136 426	REMOTE CONTROLLER		1	1	1		R.B			
9	E07 018 089	REMOTE CONTROLLER CABLE		1	1	1					
⑩	E07 039 449	CONTROLLER COVER		1	1	1					

9

OPTIONAL PARTS

9-1. REFRIGERANT PIPES

The air conditioner has flared connections its indoor and outdoor sides.
Please use the optional extension pipe as follows.

Applied unit	Models	Pipe length	Pipe size O.D.mm (in.)				Additional refrigerant charge R410A (g)	
			Cross-section	A-Gas	B-liquid	Insulation		
						C		D
SEZ-A12AR.TH	MAC-680PI	3m		φ9.52 (3/8)		φ27	φ21	0
	MAC-681PI	5m						60
	MAC-682PI	7m						150
	MAC-683PI	10m						300
	MAC-684PI	15m						
SEZ-A18AR.TH	MAC-670PI	3m		φ12.7 (1/2)	φ6.35 (1/4)	φ31	φ27	0
	MAC-671PI	5m						40
	MAC-672PI	7m						100
	MAC-673PI	10m						200
	MAC-674PI	15m						
SEZ-A24AR.TH	MAC-860PI	3m		φ15.88 (5/8)		φ31	φ27	0
	MAC-861PI	5m						40
	MAC-862PI	7m						100
	MAC-863PI	10m						200
	MAC-864PI	15m						

9-2. AIR FILTER

Applied unit	Models
SEZ-A12AR.TH SEZ-A18AR.TH SEZ-A24AR.TH	PAC - 1000 FT

Mr. SLIM™

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