

• MSZ-GA•NA and MSY-GA•NA have been added.

Please void OB450 REVISED EDITION-C.

INDOOR UNIT SERVICE MANUAL

No. OB450 REVISED EDITION-D



Outdoor unit service manual MUZ-A·NA, GA·NA Series (OB451) MUY-A·NA, GA·NA Series (OB451) MXZ-A·NA Series (OB444)



MSY-A15/17NA

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11 MICROPROCESSOR CONTROL



NOTE:

RoHS compliant products have <G> mark on the spec name plate. For servicing of RoHS compliant products, refer to the PARTS LIST (RoHS compliant).

Revision A:

• PARTS LIST has been revised. (10-1.8, 10-2.8)

Revision B:

• MSZ-A•NA-1 and MSY-A•NA-1 Remote controller has been changed.

Revision C: • SPECIFICATION has been corrected. Powerful has been added. (Airflow, Sound level)

Revision D: • MSZ-GA•NA and MSY-GA•NA have been added.

$MSZ09UN \rightarrow MSZ-A09NA$	MSH24WN → MSZ-A24N
$MSZ12UN \rightarrow MSZ-A12NA$	$MS15TN \rightarrow MSY-A15NA$
$MSH15TN \rightarrow MSZ-A15NA$	$MS17TN \rightarrow MSY-A17NA$
$MSH17TN \rightarrow MSZ-A17NA$	$MS24WN \rightarrow MSY-A24NA$

1. Control method between indoor and outdoor has been changed.

2. Indoor fan motor has been changed.

1

3. Signal of remote controller has been changed. (It is not available for conventional models.)

$MSZ-A24NA \rightarrow MSZ-A24NA-$ 1
$\textbf{MSY-A15NA} \rightarrow \textbf{MSY-A15NA-}_{1}$
$\textbf{MSY-A17NA} \rightarrow \textbf{MSY-A17NA-}_{\blacksquare}$
$\textbf{MSY-A24NA} \rightarrow \textbf{MSY-A24NA}_{-1}$

Remote controller has been changed.
 Temperature indication function (°F/°C) has been added. (Refer to 11-10.)

Models	Remote controller	Temperature indication
MSZ-A09/12/15/17NA	KM06A	°F
MSZ-A09/12/15/17NA- 1	KM07J	°F/°C
MSZ-A24NA	KM06B	°F
MSZ-A24NA - 1	KM07K	°F/°C
MSY-A15/17NA	KM06C	°F
MSY-A15/17NA - 1	KM07L	°F/°C
MSY-A24NA	KM06D	°F
MSY-A24NA - 1	KM07M	°F/°C

Timer indication has been changed. (AM/PM indication)
 Conduit plate has been removed. (MSZ-A09/12/15/17, MSY-A15/17)

3. Conduit cover, terminal block cover and terminal block holder have been changed. (MSZ-A09/12/15/17, MSY-A15/17)

MSZ-A24NA

$MSZ-A24NA- \rightarrow MSZ-GA24NA$ $\textbf{MSY-A24NA-}_{1} \rightarrow \textbf{MSY-GA24NA}$

1. Indoor electronic control P.C. board has been changed.

2 PART NAMES AND FUNCTIONS



ACCESSORIES

		MSZ-A09/12/15/17NA	MSZ-A09/12/15/17NA- 1	MSZ-A24NA MSY-A24NA
		MSY-A15/17NA	MSY-A15/17NA- 1	MSZ-GA24NA MSY-GA24NA
\bigcirc	Installation plate	1	1	1
2	Installation plate fixing screw 4 × 25 mm	8	5	7
3	Remote controller holder	1	1	1
4	Fixing screw for ③ 3.5 × 1.6 mm (Black)	2	2	2
5	Battery (AAA) for remote controller	2	2	2
6	Wireless remote controller	1	1	1
7	Felt tape (Used for left or left-rear piping)	1	1	1
8	Conduit plate	1	_	_

Indoor unit model			MSZ-A09NA	MSZ-A12NA	
External finish			White		
Power supply	V, pl	nase, Hz	208/230	0, 1, 60	
Maxfuse size (time delay) / Dis	sconnect switch	A	1	5	
Min. circuit ampacity		A	1.	0	
Fan motor		F.L.A	0.7	76	
Airflow COOL Dry (Wet)		CEM	152-229-307-338 (134-205-275-303)	152-240-353-388 (134-215-318-349)	
Low-MedHigh-Powerful	HEAT	0.111	159-222-307-321	159-240-353-353	
Moisture removal		pt./h	2.3	3.2	
Sound level	COOL		22-33-38-41	22-34-42-44	
Low-MedHigh-Powerful	HEAT	αв(А)	22-33-38-39	22-34-42-42	
Cond. drain connection O.D.		in.	5/8		
	W		30-11/16		
Dimensions	D	in.	8-1	/4	
Н			11-	3/4	
Weight Ib.			23		
Remote controller			Wireless type		
Control voltage (by built-in trans	former)		12-24	VDC	

Indoor unit model			MSZ-A15NA	MSY-A15NA	MSZ-A17NA	MSY-A17NA	
External finish			White				
Power supply	V, pł	nase, Hz		208/230, 1, 60			
Maxfuse size (time delay) / Dis	connect switch	A		1	5		
Min. circuit ampacity		A		1	.0		
Fan motor		F.L.A		0.	76		
Airflow	COOL Dry (Wet)	CEM		268-328-381-419	(240-293-342-376)		
Low–Med.–High–Powerful	HEAT	CFIM	254-314-381-381	—	254-314-381-381	_	
Moisture removal pt		pt./h	4.7		5.2		
Sound level	COOL	dB(A)	34-40-45-47		34-40-	46-48	
Low–Med.–High–Powerful	HEAT		34-38-44-44	—	34-38-44-44	—	
Cond. drain connection O.D.		in.	5/8				
	W			30-11/16			
Dimensions	D	in.	8-1/4				
Н			11-3/4				
Weight Ib.		23					
Remote controller			Wireless type				
Control voltage (by built-in transformer)				12-24	VDC		

Indoor unit model		MSZ-A24NA	MSZ-GA24NA	MSY-A24NA	MSY-GA24NA	
External finish				White		
Power supply	V, pl	hase, Hz		208/23	0, 1, 60	
Maxfuse size (time delay) / Dise	connect switch	A		1	5	
Min. circuit ampacity		A		1	.0	
Fan motor		F.L.A		0.	76	
Airflow	COOL Dry (Wet)	CEM		296-431-568-624	(265-385-508-558)	
Low–Med.–High–Powerful	HEAT		296-486-568-590	350-486-568-590	-	_
Moisture removal pt./h 7.3			.3			
Sound level	COOL		34-40-49-51			
Low–Med.–High–Powerful	HEAT	UD(A)	34-40-	-48-49	-	_
Cond. drain connection O.D.		in.		5	/8	
	W		43-5/16			
Dimensions	D	in.	10-1/4			
Н				12-13/16		
Weight Ib.		37				
Remote controller			Wireless type			
Control voltage (by built-in transf	ormer)		12-24 VDC			

NOTE: Test conditions are based on ARI 210/240. Rating conditions (Cooling) — Indoor: 80°FDB, 67°FWB, Outdoor: 95°FDB, (75°FWB) (Heating) — Indoor: 70°FDB, 60°FWB, Outdoor: 47°FDB, 43°FWB (Heating) — Indoor: 70°FDB, 60°FWB, Outdoor: 17°FDB, 15°FWB

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3-1. OPERATING RANGE

(1) POWER SUPPLY								
	Rated voltage	Guaranteed Voltage (V)						
Indoor unit	208/230 V 1 phase 60 Hz	Min.187 208 230 Max.253						

(2) OPERATION

		Intake air temperature (°F)				
Mode	Condition	Ind	Indoor		Outdoor	
		DB	WB	DB	WB	
	Standard temperature	80	67	95	—	
Cooling	Maximum temperature	90	73	115	—	
Cooling	Minimum temperature	67	57	14	—	
	Maximum humidity	78	3%	-	_	
	Standard temperature	70	60	47	43	
Heating	Maximum temperature	80	67	75	65	
	Minimum temperature	70	60	14 5 (MUZ-GA24)※	13 4 (MUZ-GA24)※	

Except - U model

3-2. OUTLET AIR SPEED AND COVERAGE RANGE

Model	Mode	Function	Air flow (CFM)	Air speed (ft./sec.)	Coverage range (ft.)
	HEAT	Dry	307	16.8	23.4
MSZ-A09NA	C001	Dry	307	16.8	23.4
	COOL	Wet	275	15.1	21.0
	HEAT	Dry	353	19.3	26.7
MSZ-A12NA	000	Dry	353	19.3	26.7
	COOL	Wet	318	17.4	24.1
MSZ-A15NA	HEAT	Dry	381	20.9	28.8
MSZ-A15NA	MSZ-A15NA MSY-A15NA COOL	Dry	381	20.9	28.8
MSY-A15NA		Wet	342	18.8	26.0
MSZ-A17NA	HEAT	Dry	381	20.9	28.8
MSZ-A17NA	C001	Dry	381	20.9	28.8
MSY-A17NA	COOL	Wet	342	18.8	26.0
MSZ-A24NA MSZ-GA24NA	HEAT	Dry	568	20.2	34.4
MSZ-A24NA	MSZ-A24NA MSY-A24NA MSZ-GA24NA MSY-GA24NA	Dry	568	20.2	34.4
MSY-A24NA MSZ-GA24NA MSY-GA24NA		Wet	508	18.1	30.9

The air coverage range is the figure up to the position where the air speed is 1 ft./sec., when air is blown out horizontally from the unit properly at the High speed position.
 The coverage range should be used only as a general guideline since it varies according to the size of the room and furniture arranged inside the room.

4

MSZ-A09NA MSY-A15NA MSZ-A12NA MSY-A17NA MSZ-A15NA MSZ-A17NA Unit: inch



MSZ-A24NA MSY-A24NA MSZ-GA24NA MSY-GA24NA



Wireless remote controller

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MSZ-A09NA MSY-A15NA MSZ-A12NA MSY-A17NA MSZ-A15NA MSZ-A17NA



* A disconnect may be required by local code.

MSZ-A24NA MSY-A24NA



MSZ-GA24NA MSY-GA24NA



REFRIGERANT SYSTEM DIAGRAM

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MSZ-A09NA MSZ-A15NA MSY-A15NA Unit: inch **MSZ-A12NA** MSZ-A17NA MSY-A17NA Refrigerant pipe ø1/2 Refrigerant pipe ø3/8 (with heat insulator) (with heat insulator) ₹.... $\overrightarrow{}$ Indoor coil Indoor coil Indoor Indoor thermistor thermistor heat RT12(main) heat RT12(main) exchanger exchanger Distributor Flared connection Flared connection ıШ Г \neg Indoor coil thermistor Indoor coil thermistor RT13(sub) RT13(sub) Room temperature thermistor Room temperature **RT11** thermistor RT11 Flared connection Flared connection Ш Refrigerant pipe ø1/4 (with heat insulator) Refrigerant pipe ø1/4 (with heat insulator) MSZ-A24NA MSY-A24NA MSZ-GA24NA MSY-GA24NA



Refrigerant flow in cooling
Refrigerant flow in heating

MSZ-A09NA MSZ-A12NA MSZ-A15NA MSZ-A17NA MSZ-A24NA MSY-A15NA MSY-A17NA MSY-A24NA MSZ-GA24NA MSY-GA24NA

7-1. TIMER SHORT MODE

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For service, set time can be shortened by short circuit of JPG and JPS on the indoor electronic control P.C. board. The time will be shortened as follows. (Refer to 8-7.)

Set time: 1-minute \rightarrow 1-second

Set time: 3-minute \rightarrow 3-second (It takes 3 minutes for the compressor to start operation. However, the starting time is shortened by short circuit-of JPG and JPS.)

7-2. P.C. BOARD MODIFICATION FOR INDIVIDUAL OPERATION

A maximum of 4 indoor units with wireless remote controllers can be used in a room.

In this case, to operate each indoor unit individually by each remote controller, P.C. boards of remote controller must be modified according to the number of the indoor unit.

How to modify the remote controller P.C. board

Remove batteries before modification.

The board has a print as shown below:



The P.C. board has the print "J1" and "J2". Solder "J1" and "J2" according to the number of indoor unit as shown in Table 1. After modification, press the RESET button.

Table 1

	1 unit operation	2 units operation	3 units operation	4 units operation
No. 1 unit	No modification	Same as at left	Same as at left	Same as at left
No. 2 unit		Solder J1	Same as at left	Same as at left
No. 3 unit	_	_	Solder J2	Same as at left
No. 4 unit	—	—	—	Solder both J1 and J2

How to set the remote controller exclusively for particular indoor unit

After you turn the breaker ON, the first remote controller that sends the signal to the indoor unit will be regarded as the remote controller for the indoor unit.

The indoor unit will only accept the signal from the remote controller that has been assigned to the indoor unit once they are set.

The setting will be cancelled if the breaker has turned OFF, or the power supply has shut down.

Please conduct the above setting once again after the power has restored.

7-3. AUTO RESTART FUNCTION

When the indoor unit is controlled with the remote controller, the operation mode, the set temperature, and the fan speed are memorized by the indoor electronic control P.C. board. The "AUTO RESTART FUNCTION" sets to work the moment power has restored after power failure. Then, the unit will restart automatically.

Operation

① If the main power has been cut, the operation settings remain.

② After the power is restored, the unit restarts automatically according to the memory. (However, it takes at least 3 minutes for the compressor to start running.)

How to release "AUTO RESTART FUNCTION"

()Turn OFF the main power of the unit.

(2)Solder the Jumper wire JR07 on the indoor electronic control P.C. board. (Refer to 8-7.)





Πē

2 0 113 2 0 113

CN151

MSZ-A24NA MSY-A24NA

NOTE:

- The operation settings are memorized when 10 seconds have passed after the indoor unit was operated with the remote controller.
- If main power is turned OFF or a power failure occurs while AUTO START/STOP timer is active, the timer setting is cancelled.
- If the unit has been OFF with the remote controller before power failure, the auto restart function does not work as the power button of the remote controller is OFF.
- To prevent breaker OFF due to the rush of starting current, systematize other home appliance not to turn ON at the same time.
- When some air conditioners are connected to the same supply system, if they are operated before power failure, the starting current of all the compressors may flow simultaneously at restart.

Therefore, the special counter-measures are required to prevent the main voltage-drop or the rush of the starting current by adding to the system that allows the units to start one by one.

8 TROUBLESHOOTING

MSZ-A09NA MSZ-A12NA MSZ-A15NA MSZ-A17NA MSZ-A24NA MSY-A15NA MSY-A17NA MSY-A24NA MSZ-GA24NA MSY-GA24NA

8-1. CAUTIONS ON TROUBLESHOOTING

- 1. Before troubleshooting, check the following
 - 1) Check the power supply voltage.
 - 2) Check the indoor/outdoor connecting wire for miswiring.
- 2. Take care of the following during servicing
 - 1) Before servicing the air conditioner, be sure to turn OFF the unit first with the remote controller, and then after confirming the horizontal vane is closed, turn OFF the breaker and/or disconnect the power plug.
 - 2) Be sure to turn OFF the power supply before removing the front panel, the cabinet, the top panel, and the electronic control P.C. board.
 - 3) When removing the electronic control P.C. board, hold the edge of the board with care NOT to apply stress on the components.
 - 4) When connecting or disconnecting the connectors, hold the housing of the connector. DO NOT pull the lead wires.





Housing point

3. Troubleshooting procedure

- 1) First, check if the OPERATION INDICATOR lamp on the indoor unit is flashing ON and OFF to indicate an abnormality. To make sure, check how many times the abnormality indication is flashing ON and OFF before starting service work.
- 2) Before servicing check that the connector and terminal are connected properly.
- 3) When the electronic control P.C. board seems to be defective, check the copper foil pattern for disconnection and the components for bursting and discoloration.
- 4) When troubleshooting, refer to 8-2., 8-3. and 8-4.

4. How to replace batteries

Weak batteries may cause the remote controller malfunction. In this case, replace the batteries to operate the remote controller normally.

 Remove the front lid and insert batteries. Then reattach the front lid.







- NOTE: 1. If RESET button is not pressed, the remote controller may not operate correctly.
 - This remote controller has a circuit to automatically reset the microprocessor control when batteries are replaced. This function is equipped to prevent the microprocessor control from malfunctioning due to the voltage drop caused by the battery replacement.

INFORMATION FOR MULTI SYSTEM AIR CONDITIONER OUTDOOR UNIT: MXZ series

- Multi system air conditioner can connect two or more indoor units with one outdoor unit.
- When you try to operate two or more indoor units with one outdoor unit simultaneously, one for the cooling and the
 other for heating, the operation mode of the indoor unit that operates earlier is selected. Other indoor units cannot
 operate, and operation indicator lamp flashes as shown in the figure below. In this case, please set all the indoor
 units to the same operation mode.



 \bigcirc

- Lighted
- 🔆 Blinking
 - Not lighted
- When indoor unit starts the operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. 10 minutes) to blow out the warm air.
- In the heating operation, though indoor unit that does not operate may get warm or the sound of refrigerant flowing may be heard, they are not malfunction. The reason is that the refrigerant continuously flows into it.

8-2. FAILURE MODE RECALL FUNCTION

Outline of the function

This air conditioner can memorize the abnormal condition which has occurred once.

Even though LED indication listed on the troubleshooting check table (8-4.) disappears, the memorized failure details can be recalled.

1. Flow chart of failure mode recall function for the indoor/outdoor unit Those figures show about MSZ-A09/12/15/17.



2. Indoor unit failure mode table

Left lamp of OPERATION INDICATOR lamp	Abnormal point (Failure mode)	Condition	Correspondence
Not lighted	Normal	—	—
1-time flash every 0.5-second	Room temperature thermistor	The room temperature thermistor short or open circuit is detected every 8 seconds during operation.	Refer to the characteristics of the room temperature thermistor (8-7.).
2-time flash 2.5-second OFF	Indoor coil thermistor	The indoor coil thermistor short or open circuit is detected every 8 seconds during operation.	Refer to the characteristics of the main indoor coil ther- mistor, the sub indoor coil thermistor (8-7.).
3-time flash 2.5-second OFF	Serial signal	The serial signal from outdoor unit is not re- ceived for a maximum of 6 minutes.	Refer to 8-6. [©] "How to check miswiring and serial signal error".
11-time flash 2.5-second OFF	Indoor fan motor	The rotational frequency feedback signal is not emitted during the 12 seconds the indoor fan operation.	Refer to 8-6. (a) "Check of indoor fan motor".
12-time flash 2.5-second OFF	Indoor control system	It cannot properly read data in the nonvolatile memory of the indoor electronic control P.C. board.	Replace the indoor electronic control P.C. board.

NOTE: Blinking patterns of this mode differ from the ones of TROUBLESHOOTING CHECK TABLE (8-4.).

8-3. INSTRUCTION OF TROUBLESHOOTING



8-4. TROUBLESHOOTING CHECK TABLE

Before taking measures, make sure that the symptom reappears for accurate troubleshooting. When the indoor unit has started operation and detected an abnormality of the following condition (the first detection after the power ON), the indoor fan motor turns OFF and OPERATION INDICATOR lamp flashes.

OPERATION INDICATOR	
φo	

♣ Lighted☆ Blinking

Not lighted

No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Correspondence
1	Miswiring or serial signal	Left lamp flashes. 0.5-second ON ★ ○ ★ ○ ★ ○ ★ ○ 0.5-second OFF		The serial signal from the outdoor unit is not received for 6 minutes.	 Refer to 8-6. ^{(IIIIIIIIIIIIIIIIIIIIIIIIIIII}
2	Indoor coil thermistor Room tem- perature thermistor	Left lamp flashes. 2-time flash ★ ○ ★ ○ ○ ○ ○ ○ ★ ○ ★ ○ ○ 2.5-second OFF		The indoor coil or the room temperature ther- mistor is short or open circuit.	Refer to 8-7. the characteristics of indoor coil thermistor, and the room temperature thermis- tor.
3	Indoor fan motor	Left lamp flashes. 3-time flash $\bullet \circ \bullet \circ \bullet \circ \circ \circ \bullet \bullet \bullet \bullet \bullet \circ \bullet \bullet \circ \bullet \bullet \circ \bullet \bullet$		The rotational frequency feedback signal is not emitted during the indoor fan operation.	Refer to 8-6. "Check of in- door fan motor".
4	Indoor con- trol system	Left lamp flashes. 4-time flash ★ ○ ★ ○ ★ ○ ★ ○ ○ ○ ○ ○ ★ ○ ★ ○ ★ ○ ★ ○	np flashes. flash (○★○★○○○○★○★○★○★ 2.5-second OFF Indoor unit and		Replace the indoor electronic control P.C. board.
5	Outdoor power sys- tem	Left lamp flashes. 5-time flash ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ○ ○ ○ ○ ★ ○ ★ ○ 2.5-second OFF	not operate.	It consecutively occurs 3 times that the com- pressor stops for overcurrent protection or start-up failure protection within 1 minute after start-up.	 Refer to "How to check of inverter/compressor". Refer to outdoor unit service manual Check the stop valve.
6	Outdoor thermistors	Left lamp flashes. 6-time flash ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ○ ○ ○ ○ ★ ○ 2.5-second OFF	-	The outdoor thermistors short or open circuit during the compressor operation.	 Refer to "Check of outdoor thermistor". Refer to outdoor unit service manual.
7	Outdoor control sys- tem	Left lamp flashes. 7-time flash ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ○ ○ ○ ★ 2.5-second OFF		It cannot properly read data in the nonvolatile memory of the inverter P.C. board or the out- door electronic control P.C. board.	Replace the inverter P.C. board or the outdoor electronic con- trol P.C. board. Refer to outdoor unit service manual.
8	Other ab- normality	Left lamp flashes. 14-time flash		An abnormality other than above mentioned is detected.	 Check the stop valve. Confirm the abnormality in detail using the failure mode recall function for outdoor unit.
9	Outdoor control system MSZ-A09/12 /15/17 MSY-A15/17	Left lamp lights up 🎽	Outdoor unit does not oper- ate	It cannot properly read data in the nonvolatile memory of the inverter P.C. board or the out- door electronic control P.C. board.	Check the blinking pattern of the LED on the inverter P.C. board or the outdoor electronic control P.C. board.

OPERATION INDICATOR

		*	¢			
ſ	No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Correspondence
	1	MXZ type Operation mode setting	Left lamp lights and lower lamp flashes.	Outdoor unit operates but indoor unit does not operate.	The operation mode of the each indoor unit is differently set to COOL (includes DRY) and HEAT at the same time, the operation mode of the indoor unit that has operated at first has the priority.	 Unify the operation mode. Refer to outdoor unit service manual.

8-5. TROUBLE CRITERION OF MAIN PARTS MSZ-A09NA MSZ-A12NA MSZ-A15NA MSZ-A17NA MSZ-A24NA MSY-A15NA MSY-A17NA MSY-A24NA MSZ-GA24NA MSY-GA24NA

Part name		Check method	d and criterion	Figure	
Room temperature thermistor(RT11)					
Indoor coil thermistor (RT12(MAIN),RT13(SUB))	Re "Ir	efer to 8-7. "Test point diagram a ndoor electronic control P.C. boar			
Indoor fan motor(MF)	Cł	heck 8-6. @.			
Horizontal vane	M (P	easure the resistance between th Part temperature 50 ~ 86°F)	RED		
motor(MV)		Color of the lead wire	Normal		
MSZ-A09/12/15/17NA MSY-A15/17NA		BRN-other one	235 ~ 255 Ω	BRN FWYWY	
				ORN GRN	
Horizontal vane	M (P	easure the resistance between th 'art temperature 50 ~ 86°F)	RED		
Motor(MV1)		Color of the lead wire	Normal		
motor(MV2)		BRN-other one	282 ~ 306 Ω		

8-6. TROUBLESHOOTING FLOW



B Check of remote controller and indoor electronic control P.C. board

*Check if the remote controller is exclusive for this air conditioner.



C Check of indoor electronic control P.C. board and indoor fan motor Turn OFF the power supply. Remove indoor fan motor connector CN211 and vane motor connector CN151 from the indoor electronic control P.C. board and turn ON the power supply. Measure the resistance between Short/open circuit: CN211 (3) and (4) of the indoor fan motor Replace the indoor fan motor. connector. Does the unit operate with the remote controller? Does OPERATION INDICATOR lamp light up by pressing EMERGENCY Yes **OPERATION** switch? No Short/open circuit: Measure the resistance of the horizontal vane motor coil. (Refer to 8-5.) Replace the horizontal vane motor and the indoor electronic control P.C. board. Replace the indoor electronic control P.C. board. Yes Are the varistor (NR11) burnt and the fuse (F11) No blown? Turn OFF the power supply. Check both "parts side" and "pattern side" of the indoor electronic control P.C. board visually. Be sure to check both the fuse and the varistor in any case. Is the fuse (F11) blown only? No Yes *1. The fan motor connector's ① lead wire is red, whereas ③ is Measure the resistance between ① black. (+) and (3(-) of the indoor fan motor *2. Connect "+" of the tester to fan motor connector's ① lead wire, and "-" to ③ lead wire, otherwise the resistance can-not be measured properly. connector (to CN211 on the indoor electronic control P.C. board). %1, %2 Replace indoor electronic control P.C. board Is the resistance 1 $M\Omega$ No and the indoor fan motor. or more? Yes Replace indoor electronic control P.C. board Measure the resistance of resis-Replace the indoor electronic control P.C. board and the indoor fan motor. Is the resistance approx. tor (R111) on the indoor electronic control P.C. board. No 4 Ω? Yes Replace the indoor electronic control P.C. board. Indoor electronic control P.C.Board Varistor(NR11)



(D) How to check miswiring and serial signal error



(E) Electromagnetic noise enters into TV sets or radios



8-7. Test point diagram and voltage MSZ-A09NA MSZ-A12NA MSZ-A15NA MSZ-A17NA MSY-A15NA MSY-A17NA

Indoor electronic control P.C. board





MSZ-A24NA MSY-A24NA MSZ-GA24NA MSY-GA24NA Indoor electronic control P.C. board

DISASSEMBLY INSTRUCTIONS

<"Terminal with locking mechanism" Detaching points>

9

The terminal which has the locking mechanism can be detached as shown below. There are two types (refer to (1) and (2)) of the terminal with locking mechanism. The terminal without locking mechanism can be detached by pulling it out. Check the shape of the terminal before detaching.

(1) Slide the sleeve and check if there is a locking lever or not.

(2) The terminal with this connector has the locking mechanism.





① Hold the sleeve, and pull out the terminal slowly.

9-1. MSZ-A09NA MSZ-A12NA MSZ-A15NA MSZ-A17NA MSY-A15NA MSY-A17NA



OPERATING PROCEDURE

2. Removing the electronic control P.C. board, the power monitor receiver P.C. board, SW P.C. board and the terminal block

- (1) Remove the horizontal vane, the panel (refer to 1.) and the corner box.
- (2) Remove the screw of the conduit cover, and conduit cover. (Photo 2 or Photo 3)
- (3) Remove the indoor/outdoor connecting wire.
- (4) Remove the switch holder from the electrical cover. (Photo 4)
- (5) Remove the screw of the electrical cover, and then the electrical cover. (Photo 4)
- (6) Remove the ground wire connected to the indoor electronic control P.C. board from the electrical box. (Photo 5)
- (7) Unhook the power monitor receiver P.C. board holder from the catch. (Photo 4)
- (8) Open the rear cover of the power monitor receiver P.C. board holder and pull out the power monitor receiver P.C. board.
- (9) Open the switch holder and pull out SW P.C. board.
- (10) Pull the electronic control P.C. board slightly toward you from the electrical box, and disconnect TAB3 and all the connectors on the electronic control P.C. board. (LD101 and LD105 are direct-mounted to the electronic control P.C. board.)
- (11) Pull out the electronic control P.C. board from the electrical box.
- (12) Remove the ground wire connected to the heat exchanger from the electrical box. (Photo 5)
- (13) Unhook the catches of the electrical box, and pull out the electrical box.
- (14) Remove the screw of the terminal block cover, and then remove the terminal block cover and the terminal block holder. (Photo 6)
- (15) Remove the terminal block by sliding it.

3. Removing the electrical box

- (1) Remove the horizontal vane, the panel (refer to 1.) and the corner box.
- (2) Remove the screw of Conduit cover, and then the indoor/ outdoor connecting wire. (Photo 2 or Photo 3)
- (3) Remove the switch holder and the electrical cover. (Photo 4)
- (4) Remove the ground wire connected to the heat exchanger from the electrical box. (Photo 5)
- (5) Disconnect the following connectors on the electronic control P.C. board: the fan motor connector <CN211>, the indoor coil thermistor connector <CN112>, the vane motor connector <CN151>. (Photo 5)
- (6) Unhook the catches of the electrical box, and pull out the electrical box.



Vane motor

connector (CN151)

Photo 6



Screw

OPERATING PROCEDURE	PHOTOS
 4. Removing the horizontal vane motor unit (1) Remove the horizontal vane, the panel (refer to 1.) and the corner box. (2) Remove the screws of the horizontal vane motor unit, and pull out the horizontal vane motor unit. (Photo 7) (3) Disconnect the connector from the horizontal vane motor unit. 	Photo 7 Screws of the horizontal vane motor unit
 5. Removing the indoor fan motor and the line flow fan (1) Remove the horizontal vane, the panel (refer to 1.) and the corner box. (2) Remove the switch holder and the electrical box. (Refer to 3.) (3) Remove the drain hose from the nozzle assembly, and remove the nozzle assembly. (4) Remove the screws fixing the motor bed. (Photo 8) (5) Loosen the screw fixing the line flow fan. (Photo 9) (6) Remove the motor bed together with fan motor and motor band. (7) Release the hooks of the motor band, and remove the motor band then pull out the indoor fan motor. (8) Remove the screws fixing the left side of the heat exchanger. (Photo 10) (9) Lift the heat exchanger, and pull out the line flow fan to the lower-left. 	Photo 8 Motor band
	Photo 9 Screw of the line flow fan
	Photo 10 Screws of the left side of the heat exchanger



9-2. MSZ-A24NA MSY-A24NA MSZ-GA24NA MSY-GA24NA



PARTS LIST

10

10-1. PARTS LIST (non-RoHS compliant) MSZ-A09NA MSZ-A12NA MSY-A15NA MSY-A17NA MSZ-A15NA MSZ-A17NA



1. INDOOR UNIT STRUCTURAL PARTS

				Q'ty/unit							
No.	Part No.	Part name	in Wiring Diagram	MSZ-				MSY-		Remarks	
				A09NA	A12NA	A15NA	A17NA	A15NA	A17NA		
1	E02 A32 234	BOX		1	1	1	1	1	1		
2	E02 A49 000	PANEL ASSEMBLY		1	1	1	1	1	1	Including No.3,4	
3	E02 913 067	SCREW CAP		2	2	2	2	2	2	2 PC/SET	
4	E02 915 010	FRONT PANEL		1	1	1	1	1	1		
5	E02 915 100	CATECHIN AIR FILTER (LEFT)		1	1	1	1	1	1		
6	E02 916 100	CATECHIN AIR FILTER (RIGHT)		1	1	1	1	1	1		
7	—	AIR CLEANING FILTER		1	1	1	1	1	1	MAC-415FT-E	
8	E02 A32 975	CORNER BOX (RIGHT)		1	1	1	1	1	1		
9	E02 913 970	INSTALLATION PLATE		1	1	1	1	1	1		
10	E02 A49 978	CONDUIT PLATE		1	1	1	1	1	1		

2. ACCESSORY AND REMOTE CONTROLLER

44	E02 A54 426	REMOTE CONTROLLER	1	1	1	1			KM06A
	E02 A49 426	REMOTE CONTROLLER					1	1	KM06C
12	E02 527 083	REMOTE CONTROLLER HOLDER	1	1	1	1	1	1	

MSZ-A09NA MSZ-A12NA MSZ-A15NA MSZ-A17NA MSY-A15NA MSY-A17NA 3. INDOOR UNIT ELECTRICAL PARTS AND FUNCTIONAL PARTS



			Symbol	Q'ty/unit							
No.	Part No.	Part name	in Wiring		MS	SZ-		MS	SY-	Remarks	
			Diagram	A09NA	A12NA	A15NA	A17NA	A15NA	A17NA		
1	E02 751 509	BEARING MOUNT		1	1	1	1	1	1		
2	E02 001 504	SLEEVE BEARING		1	1	1	1	1	1		
3	E02 897 702	DRAIN HOSE		1	1	1	1	1	1		
	E02 A54 235			1	1						
4	E02 A56 235					1	1	1	1		
5	E02 897 303	VANE MOTOR UNIT (HORIZONTAL)	MV	1	1	1	1	1	1	UP & DOWN	
6	E02 913 040	HORIZONTAL VANE		1	1	1	1	1	1		
7	E02 915 095	POWER MONITOR RECEIVER P.C. BOARD HOLDER		1	1	1	1	1	1		
8	E02 A49 979	CONDUIT COVER		1	1	1	1	1	1		
9	E02 A49 780	TERMINAL BLOCK COVER		1	1	1	1	1	1		
10	E02 A49 779	TERMINAL BLOCK HOLDER		1	1	1	1	1	1		
11	E02 913 375	TERMINAL BLOCK	ТВ	1	1	1	1	1	1		
	E02 A54 452			1							
	E02 A55 452				1						
12	E02 A56 452	ELECTRONIC CONTROL P.C.				1					
12	E02 A57 452	BOARD ※1					1				
	E02 A51 452							1			
	E02 A52 452								1		
13	E02 897 308	ROOM TEMPERATURE THERMISTOR	RT11	1	1	1	1	1	1		
14	E02 A54 307		RT12,	1	1						
14	E02 A56 307	INDOOR COLE THERMISTOR	RT13			1	1	1	1		
15	E02 915 782	SWITCH HOLDER		1	1	1	1	1	1		
16	E02 A54 300	INDOOR FAN MOTOR ※2	MF	1	1	1	1	1	1	RC0J30-00	
17	E02 897 333	MOTOR BAND		1	1	1	1	1	1		
18	E02 897 302	LINE FLOW FAN		1	1	1	1	1	1		

****1 Including SW P.C. BOARD and POWER MONITOR RECEIVER P.C. BOARD **2 Including FAN MOTOR RUBBER MOUNT (2 PC/SET)**

MSZ-A09NA MSZ-A12NA MSZ-A15NA MSZ-A17NA MSY-A15NA MSY-A17NA 4. INDOOR UNIT HEAT EXCHANGER



			Symbol							
No.	Part No.	Part name	in Wiring Diagram	MSZ-			MSY-		Remarks	
				A09NA	A12NA	A15NA	A17NA	A15NA	A17NA]
4	E02 A54 620	NDOOR HEAT EXCHANGER		1	1					
	E02 A56 620					1	1	1	1	
_	E02 815 666			1	1					ø 3/8
_	E02 155 666	UNION (GAS)				1	1	1	1	ø 1/2
3	E02 151 667	UNION (LIQUID)		1	1	1	1	1	1	ø1/4

5. AIR CLEANING FILTER (ANTI-ALLERGY ENZYME FILTER)

- AIR CLEANING FILTER removes fine dust of 0.01 micron from air by means of static electricity.
- Normal life of AIR CLEANING FILTER is 1 year.
 If AIR CLEANING FILTER is to be washed, soak AIR CLEANING FILTER in water (when showing dirt, in lukewarm water) and rinse it delicately, without removing the filter from the frame about once every 3 months.
- Clogged AIR CLEANING FILTER may reduce the air conditioner capacity or cause frost on the air outlet.
- Do not remove or attach AIR CLEANING FILTER during unit operation.

Model	Part No.					
MSZ-A09/12/15/17NA MSY-A15/17NA	MAC-415FT-E					

Replacement of the air cleaning filter

 Remove the catechin air filter (left one). The air cleaning filter is not attached to the right side catechin air filter.



(2) Remove the air cleaning filter (Blue bellows type) from the catechin air filter.



MSZ-A24NA MSY-A24NA

6. INDOOR UNIT STRUCTURAL PARTS

7. INDOOR UNIT HEAT EXCHANGER



6. INDOOR UNIT STRUCTURAL PARTS

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

		Dort Norro	Symbol	Q'ty		
NO.	Part No.	Part Name	in Wiring Diagram	MSZ-A24NA	MSY-A24NA	Remarks
1	E02 527 970	INSTALLATION PLATE		1	1	
2	E02 685 234	BOX		1	1	
3	E02 888 000	FRONT PANEL ASSEMBLY		1	1	Including No.5,6
4	E02 408 142	САТСН		4	4	4 PC/SET
5	E02 685 067	SCREW CAP		3	3	3 PC/SET
6	E02 888 010	GRILLE		1	1	
7	E02 534 100	CATECHIN AIR FILTER		2	2	1 PC/SET
8	E02 685 975	CORNER BOX (RIGHT)		1	1	
9		AIR CLEANING FILTER		2	2	MAC-2300FT
10	E02 888 007	LAMP PANEL		1	1	

7. INDOOR UNIT HEAT EXCHANGER

11	E02 A58 620	INDOOR HEAT EXCHANGER	1	1	
12	E02 527 666	UNION (GAS)	1	1	ø 5/8
13	E02 151 667	UNION (LIQUID)	1	1	ø1/4

MSZ-A24NA MSY-A24NA

8. INDOOR UNIT FUNCTIONAL PARTS AND ELECTRICAL PARTS



9. ACCESSORY AND REMOTE CONTROLLER



8. INDOOR UNIT FUNCTIONAL PARTS AND ELECTRICAL PARTS

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

			Symbol	Q'ty	/unit	
No.	Part No.	Part Name	in Wiring Diagram	MSZ-A24NA	MSY-A24NA	Remarks
1	E02 527 302	LINE FLOW FAN	-	1	1	
2	E02 408 509	BEARING MOUNT		1	1	
3	E02 001 504	SLEEVE BEARING		1	1	
4	E02 408 702	DRAIN HOSE		1	1	
5	E02 A58 235	NOZZLE		1	1	
6	E02 685 040	VANE UPPER		1	1	
7	E02 685 041	VANE LOWER		1	1	
8	E02 527 034	VANE CRANK SET		1	1	
9	E02 A58 300	INDOOR FAN MOTOR ASSEMBLY *1	MF	1	1	RC0J56-00
10	E02 448 303	VANE MOTOR (VERTICAL)	MV2	2	2	RIGHT & LEFT
11	E02 408 303	VANE MOTOR (HORIZONTAL)	MV1	1	1	UP & DOWN
12	E02 918 333	MOTOR BAND		1	1	
13	E02 918 329	DISPLAY P.C. BOARD		1	1	
14	E02 918 468	RECEIVER P.C. BOARD		1	1	
15	E02 A58 452	ELECTRONIC CONTROL P.C. BOARD *2		1	4	_
16	E02 A53 452		DT11	1	1	
10	E02 327 300			1	1	
	LUZ A30 3/3		RT12	•		
18	E02 918 307	INDOOR COIL THERMISTOR	RT13	1	1	
19	E02 528 034	VANE MOTOR SUPPORT SET(RIGHT)		1	1	
20	E02 529 034	VANE MOTOR SUPPORT SET(LEFT)		1	1	
*1 lr	ncluding FAN M	IOTOR RUBBER MOUNT				

*1 Including FAN MOTOR RUBI *2 Including SW P.C. BOARD

9. ACCESSORY AND REMOTE CONTROLLER

24	E02 A58 426		1		KM06B
21	E02 A53 426			1	KM06D
22	E02 527 083	REMOTE CONTROLLER HOLDER	1	1	

10. AIR CLEANING FILTER (ANTI-ALLERGY ENZYME FILTER)

- AIR CLEANING FILTER removes fine dust of 0.01 micron from air by means of static electricity.
- Normal life of AIR CLEANING FILTER is 1 year. If AIR CLEANING FILTER is to be washed, soak AIR CLEANING FILTER in water (when showing dirt, in lukewarm water) and rinse it delicately, without removing the filter from the frame about once every 3 months.
- Clogged AIR CLEANING FILTER may reduce the air conditioner capacity or cause frost on the air outlet.
- Do not remove or attach AIR CLEANING FILTER during unit operation.

Model	Part No.
MSZ-A24NA MSY-A24NA	MAC-2300FT

Air cleaning filter (Anti-allergy enzyme filter:blue bellows type)

10-2. RoHS PARTS LIST (RoHS compliant) MSZ-A09NA MSZ-A12NA MSY-A15NA MSY-A17NA MSZ-A15NA MSZ-A17NA



1. INDOOR UNIT STRUCTURAL PARTS

Or we had										Q'ty/unit										
	F	Dout No.	Dort nome	Symbol				MS	Z-A					MS	Y-A		Bomorko			
	å	Part NO.	Part name	In wiring	09NA		9NA 12N		15NA		17NA		A 15N/		VA 17		Remarks			
				Diagram		- 1		- 1		- 1		- 1		- 1		- 1				
1	G	E12 A32 234	BOX		1	1	1	1	1	1	1	1	1	1	1	1				
2	G	E12 A49 000	PANEL ASSEMBLY		1	1	1	1	1	1	1	1	1	1	1	1	Including			
-	0	L12 A43 000	FAILE ASSEMBET			•	•	•	•	•	•	•	•		'	•	No.3,4			
3	G	E12 913 067	SCREW CAP		2	2	2	2	2	2	2	2	2	2	2	2	2 PC/SET			
4	G	E12 915 010	FRONT PANEL		1	1	1	1	1	1	1	1	1	1	1	1				
5	G	E12 915 100	CATECHIN AIR FILTER (LEFT)		1	1	1	1	1	1	1	1	1	1	1	1				
6	G	E12 916 100	CATECHIN AIR FILTER (RIGHT)		1	1	1	1	1	1	1	1	1	1	1	1				
7	G		AIR CLEANING FILTER		1	1	1	1	1	1	1	1	1	1	1	1	MAC-415FT-E			
8	G	E12 A32 975	CORNER BOX (RIGHT)		1	1	1	1	1	1	1	1	1	1	1	1				
9	G	E12 913 970	INSTALLATION PLATE		1	1	1	1	1	1	1	1	1	1	1	1				
10	G	E12 A49 978	CONDUIT PLATE		1		1		1		1		1		1					

2. ACCESSORY AND REMOTE CONTROLLER

	G	E12 A54 426		1		1		1		1						KM06A
44	G	E12 A49 426	REMOTE									1		1		KM06C
11	G	E12 C30 426	CONTROLLER										1		1	KM07L
	G	E12 C22 426			1		1		1		1					KM07J
12	G	E12 527 083	REMOTE CONTROLLER HOLDER	1	1	1	1	1	1	1	1	1	1	1	1	

MSZ-A09NA MSZ-A12NA MSZ-A15NA MSZ-A17NA MSY-A15NA MSY-A17NA 3. INDOOR UNIT ELECTRICAL PARTS AND FUNCTIONAL PARTS



	~			Symbol	Q'ty/unit												
No	L,	Part No	Part namo	5ymbol				MS	Z-A					MS	Y-A		Pomarke
110.	R	Fart NO.	Faithanie	Diagram	09	NA	12	NA	15	NA	17	NA	15	NA	17	NA	INCINAINS
	-			Blagram		- 1		- 1		- 1		- 1		- 1		- 1	
1	G	E12 751 509	BEARING MOUNT		1	1	1	1	1	1	1	1	1	1	1	1	
2	G	E12 001 504	SLEEVE BEARING		1	1	1	1	1	1	1	1	1	1	1	1	
3	G	E12 897 702	DRAIN HOSE		1	1	1	1	1	1	1	1	1	1	1	1	
1	G	E12 A54 235			1	1	1	1									
-	G	E12 A56 235	NOZZEL ASSEMBET						1	1	1	1	1	1	1	1	
5	G	E12 897 303	VANE MOTOR UNIT (HORIZONTAL)	MV	1	1	1	1	1	1	1	1	1	1	1	1	UP & DOWN
6	G	E12 913 040	HORIZONTAL VANE		1	1	1	1	1	1	1	1	1	1	1	1	
7	G	E12 915 095	POWER MONITOR RECEIVER P.C. BOARD HOLDER		1	1	1	1	1	1	1	1	1	1	1	1	
8	G	E12 A49 979	CONDUIT COVER		1		1		1		1		1		1		
9	G	E12 C30 979	CONDUIT COVER			1		1		1		1		1		1	
40	G	E12 A49 780	TERMINAL BLOCK		1		1		1		1		1		1		
10	G	E12 C30 780	COVER			1		1		1		1		1		1	
44	G	E12 A49 779	TERMINAL BLOCK		1		1		1		1		1		1		
11	G	E12 C30 779	HOLDER			1		1		1		1		1		1	
12	G	E12 913 375	TERMINAL BLOCK	TB	1	1	1	1	1	1	1	1	1	1	1	1	
	G	E12 A54 452			1	1											
	G	E12 A55 452					1	1									
12	G	E12 A56 452							1	1							
13	G	E12 A57 452	BOARD %1								1	1]
	G	E12 A51 452											1	1			
	G	E12 A52 452													1	1	
14	G	E12 897 308	ROOM TEMPERATURE THERMISTOR	RT11	1	1	1	1	1	1	1	1	1	1	1	1	
15	G	E12 A54 307	INDOOR COIL	RT12,	1	1	1	1									
15	G	E12 A56 307	THERMISTOR	RT13					1	1	1	1	1	1	1	1	
16	G	E12 915 782	SWITCH HOLDER		1	1	1	1	1	1	1	1	1	1	1	1	
17	G	E12 A54 300	INDOOR FAN MOTOR 32	MF	1	1	1	1	1	1	1	1	1	1	1	1	RC0J30-00
18	G	E12 897 333	MOTOR BAND		1	1	1	1	1	1	1	1	1	1	1	1	
19	G	E12 897 302	LINE FLOW FAN		1	1	1	1	1	1	1	1	1	1	1	1	

****1** Including SW P.C. BOARD and POWER MONITOR RECEIVER P.C. BOARD ****2** Including FAN MOTOR RUBBER MOUNT (2 PC/SET)

MSZ-A09NA MSZ-A12NA MSZ-A15NA MSZ-A17NA MSY-A15NA MSY-A17NA 4. INDOOR UNIT HEAT EXCHANGER



					Q'ty/unit												
	R	Dout No.	Dort nome	Symbol	nbol MSZ-A								MSY-A				Bomarke
NO.	2 2 2	Part No.	Part name	Diagram	09	NA	12	NA	15	NA	17	NA	15	NA	17	NA	Remarks
	_			Diagram		- 1		- 1		- 1		- 1		- 1		- 1	
4	G	E12 A54 620	INDOOR HEAT		1	1	1	1									
'	G	E12 A56 620	EXCHANGER						1	1	1	1	1	1	1	1	
2	G	E12 815 666			1	1	1	1									ø3/8
_	G	E12 155 666	UNIUN (GAS)						1	1	1	1	1	1	1	1	ø1/2
3	G	E12 151 667	UNION (LIQUID)		1	1	1	1	1	1	1	1	1	1	1	1	ø1/4

5. AIR CLEANING FILTER (ANTI-ALLERGY ENZYME FILTER)

- AIR CLEANING FILTER removes fine dust of 0.01 micron from air by means of static electricity.
- Normal life of AIR CLEANING FILTER is 1 year.

If AIR CLEANING FILTER is to be washed, soak AIR CLEANING FILTER in water (when showing dirt, in lukewarm water) and rinse it delicately, without removing the filter from the frame about once every 3 months.

- Clogged AIR CLEANING FILTER may reduce the air conditioner capacity or cause frost on the air outlet.
- Do not remove or attach AIR CLEANING FILTER during unit operation.

Model	Part No.
MSZ-A09/12/15/17NA MSY-A15/17NA	MAC-415FT-E

Replacement of the air cleaning filter

 Remove the catechin air filter (left one). The air cleaning filter is not attached to the right side catechin air filter.



(2) Remove the air cleaning filter (Blue bellows type) from the catechin air filter.



MSZ-A24NA MSY-A24NA MSZ-GA24NA MSY-GA24NA

6. INDOOR UNIT STRUCTURAL PARTS 7. INDOOR UNIT HEAT EXCHANGER



6. INDOOR UNIT STRUCTURAL PARTS

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

							Q'ty				
	HS H	Dout No	Dout Nome	Symbol		MSZ-			MSY-		Domoriko
NO.	20	Part No.	Part Name	Diagram	A24	A24NA GA		A24NA		GA24	Remarks
	-			Diagram		- 1	NA		- 1	NA	
1	G	E12 527 970	INSTALLATION PLATE		1	1	1	1	1	1	
2	G	E12 685 234	BOX		1	1	1	1	1	1	
3	G	E12 888 000	FRONT PANEL ASSEMBLY		1	1	1	1	1	1	Including No.5,6
4	G	E12 408 142	САТСН		4	4	4	4	4	4	4 PC/ SET
5	G	E12 685 067	SCREW CAP		3	3	3	3	3	3	3 PC/ SET
6	G	E12 888 010	GRILLE		1	1	1	1	1	1	
7	G	E12 534 100	CATECHIN AIR FILTER		2	2	2	2	2	2	1 PC/ SET
8	G	E12 685 975	CORNER BOX (RIGHT)		1	1	1	1	1	1	
9	G	_	AIR CLEANING FILTER		2	2	2	2	2	2	MAC-2300FT
10	G	E12 888 007	LAMP PANEL		1	1	1	1	1	1	

7. INDOOR UNIT HEAT EXCHANGER

11	G	E12 A58 620	INDOOR HEAT EXCHANGER	1	1	1	1	1	1	
12	G	E12 527 666	UNION (GAS)	1	1	1	1	1	1	ø5/8
13	G	E12 151 667	UNION (LIQUID)	1	1	1	1	1	1	ø1/4

MSZ-A24NA MSY-A24NA MSZ-GA24NA MSY-GA24NA 8. INDOOR UNIT FUNCTIONAL PARTS AND ELECTRICAL PARTS



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

No. $\frac{9}{2}$ 6 Part No. Part Name Symbol injurg Diagram MSZ- MSY- Remarks 1 G E12 527 302 LINE FLOW FAN 1		HS	Dert Ne.		Q'ty/unit							
NO. $\frac{2}{6}$ Fail No. Fail Name $\frac{11}{10}$ $A24NA$ $GA24$ $A24NA$ $GA24$ $A24NA$ $GA24$ $A24NA$ <td>No</td> <td>Dart Nama</td> <td>Symbol</td> <td colspan="2">MSZ-</td> <td colspan="3">MSY-</td> <td>Bomorko</td>	No			Dart Nama	Symbol	MSZ-		MSY-			Bomorko	
Image: Second	NO.	å	Part No.	Part Name	Diagram	A24	1NA	GA24	A24	INA	GA24	Remarks
1 G E12 527 302 LINE FLOW FAN 1 <td></td> <td>-</td> <td></td> <td></td> <td>Diagram</td> <td></td> <td>- 1</td> <td>NA</td> <td></td> <td>- 1</td> <td>NA</td> <td></td>		-			Diagram		- 1	NA		- 1	NA	
2 G E12 408 509 BEARING MOUNT 1 </td <td>1</td> <td>G</td> <td>E12 527 302</td> <td>LINE FLOW FAN</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	1	G	E12 527 302	LINE FLOW FAN		1	1	1	1	1	1	
3 G E12 001 504 SLEEVE BEARING 1 </td <td>2</td> <td>G</td> <td>E12 408 509</td> <td>BEARING MOUNT</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	2	G	E12 408 509	BEARING MOUNT		1	1	1	1	1	1	
4 G E12 408 702 DRAIN HOSE 1	3	G	E12 001 504	SLEEVE BEARING		1	1	1	1	1	1	
5 G E12 A58 235 NOZZLE 1 1 1 1 1 1 1 1 1 6 G E12 685 040 VANE UPPER 1	4	G	E12 408 702	DRAIN HOSE		1	1	1	1	1	1	
6 G E12 685 040 VANE UPPER 1 1 1 1 1 1 1 1 7 G E12 685 041 VANE LOWER 1 </td <td>5</td> <td>G</td> <td>E12 A58 235</td> <td>NOZZLE</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	5	G	E12 A58 235	NOZZLE		1	1	1	1	1	1	
7 G E12 685 041 VANE LOWER 1	6	G	E12 685 040	VANE UPPER		1	1	1	1	1	1	
8 G E12 527 034 VANE CRANK SET 1 </td <td>7</td> <td>G</td> <td>E12 685 041</td> <td>VANE LOWER</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	7	G	E12 685 041	VANE LOWER		1	1	1	1	1	1	
9 G E12 A58 300 INDOOR FAN MOTOR ASSEMBLY %1 MF 1 <td>8</td> <td>G</td> <td>E12 527 034</td> <td>VANE CRANK SET</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	8	G	E12 527 034	VANE CRANK SET		1	1	1	1	1	1	
10 G E12 448 303 VANE MOTOR (VERTICAL) MV2 2 <th2< th=""> <th2< th=""> <th2< th=""></th2<></th2<></th2<>	9	G	E12 A58 300	INDOOR FAN MOTOR ASSEMBLY <u>%</u> 1	MF	1	1	1	1	1	1	RC0J56-□□
11 G E12 408 303 VANE MOTOR (HORIZONTAL) MV1 1	10	G	E12 448 303	VANE MOTOR (VERTICAL)	MV2	2	2	2	2	2	2	RIGHT & LEFT
12 G E12 918 333 MOTOR BAND 1	11	G	E12 408 303	VANE MOTOR (HORIZONTAL)	MV1	1	1	1	1	1	1	UP & DOWN
13 G E12 918 329 DISPLAY P.C. BOARD 1 <t< td=""><td>12</td><td>G</td><td>E12 918 333</td><td>MOTOR BAND</td><td></td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td></t<>	12	G	E12 918 333	MOTOR BAND		1	1	1	1	1	1	
14 G E12 918 468 RECEIVER P.C. BOARD 1 <	13	G	E12 918 329	DISPLAY P.C. BOARD		1	1	1	1	1	1	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	14	G	E12 918 468	RECEIVER P.C. BOARD		1	1	1	1	1	1	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		G	E12 A58 452			1	1					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	45	G	E12 A53 452	ELECTRONIC CONTROL P.C.					1	1		
G E12 E35 452 Image: Constraint of the state of	15	G	E12 E34 452	BOARD %2				1				
16 G E12 527 308 ROOM TEMPERATURE THERMISTOR RT11 1 </td <td></td> <td>G</td> <td>E12 E35 452</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>		G	E12 E35 452								1	
17 G E12 A58 375 TERMINAL BLOCK TB 1 1 1 1 1 18 G E12 918 307 INDOOR COIL THERMISTOR RT12, RT13 1 1 1 1 1 1 (19) G E12 528 034 VANE MOTOR SUPPORT SET (RIGHT) 1 1 1 1 1 1 (20) G E12 529 034 VANE MOTOR SUPPORT SET (LEFT) 1 1 1 1 1	16	G	E12 527 308	ROOM TEMPERATURE THERMISTOR	RT11	1	1	1	1	1	1	
18 G E12 918 307 INDOOR COIL THERMISTOR RT12, RT13 1 1 1 1 1 (19) G E12 528 034 VANE MOTOR SUPPORT SET (RIGHT) 1 1 1 1 1 1 (20) G E12 529 034 VANE MOTOR SUPPORT SET (LEFT) 1 1 1 1 1	17	G	E12 A58 375	TERMINAL BLOCK	TB	1	1	1	1	1	1	
(19) G E12 528 034 VANE MOTOR SUPPORT SET (RIGHT) 1 <td>18</td> <td>G</td> <td>E12 918 307</td> <td>INDOOR COIL THERMISTOR</td> <td>RT12, RT13</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	18	G	E12 918 307	INDOOR COIL THERMISTOR	RT12, RT13	1	1	1	1	1	1	
20 G E12 529 034 VANE MOTOR SUPPORT SET (LEFT) 1 1 1 1 1 1	19	G	E12 528 034	VANE MOTOR SUPPORT SET (RIGHT)		1	1	1	1	1	1	
	20	G	E12 529 034	VANE MOTOR SUPPORT SET (LEFT)		1	1	1	1	1	1	

X1 Including FAN MOTOR RUBBER MOUNT X2 Including SW P.C. BOARD

MSZ-A24NA MSY-A24NA MSZ-GA24NA MSY-GA24NA 9. ACCESSORY AND REMOTE CONTROLLER



1



						Q'ty/unit						
N	HS	Part No. Part Nar	Port Namo	Symbol in Wiring Diagram	MSZ-		MSY-			Domorko		
NO.	Ro		. Part Name		A24NA		GA24 A24		1NA	GA24	Remarks	
	_					- 1	NA		- 1	NA		
	G	E12 A58 426	A58 426 A53 426 C26 426 C29 426		1						KM06B	
1	G	E12 A53 426						1			KM06D	
	G	E12 C26 426				1	1				KM07K	
	G	E12 C29 426							1	1	KM07M	
2	G	E12 527 083	REMOTE CONTROLLER HOLDER		1	1	1	1	1	1		

10. AIR CLEANING FILTER (ANTI-ALLERGY ENZYME FILTER)

- AIR CLEANING FILTER removes fine dust of 0.01 micron from air by means of static electricity.
- Normal life of AIR CLEANING FILTER is 1 year.
 If AIR CLEANING FILTER is to be washed, soak AIR CLEANING FILTER in water (when showing dirt, in lukewarm water) and rinse it delicately, without removing the filter from the frame about once every 3 months.
- Clogged AIR CLEANING FILTER may reduce the air conditioner capacity or cause frost on the air outlet.
- Do not remove or attach AIR CLEANING FILTER during unit operation.

Model	Part No.
MSZ-A24NA MSY-A24NA MSZ-GA24NA MSY-GA24NA	MAC-2300FT

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-

Air cleaning filter (Anti-allergy enzyme filter:blue bellows type)

MICROPROCESSOR CONTROL

MSZ-A09NA MSZ-A12NA MSZ-A15NA MSZ-A17NA MSZ-A24NA MSY-A15NA MSY-A17NA MSY-A24NA MSZ-GA24NA MSY-GA24NA



Once the operation mode is set, the same operation mode can be repeated by simply turning OPERATE/STOP (ON/OFF) button ON.

Indoor unit receives the signal with a beep tone.

When the system turns OFF, 3-minute time delay will operate to protect system from overload and compressor will not restart for 3 minutes.

INDOOR UNIT DISPLAY SECTION

Operation Indicator lamp

11

The operation indicator at the right side of the indoor unit indicates the operation state.

•The following indication applies regardless of shape of the indication.

Indication	Operation state	Difference between target temperature and room temperature	
* *	This shows that the air conditioner is operating to reach the target temperature. Please wait until the target temperature is obtained.	Approx. 4°F or more	Ϋ́ Ϋ́
.	This shows that the room temperature is approaching the target temperature.	Approx. 4°F or less	
÷ ¢	This shows a state of standby for operation. (For multi system air conditioner)	_	

E Lighted

-) Blinking
- Not lighted

11-1. COOL (🗘) OPERATION

- (1) Press OPERATE/STOP (ON/OFF) button.
- OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
- Select COOL mode with OPERATION SELECT button.
- (3) Press TEMPERATURE buttons (TOO WARM or TOO COOL button) to select the desired temperature.
- The setting range is 61 ~ 88°F.

1. Coil frost prevention

When the temperature of indoor heat exchanger becomes too low, the coil frost prevention mode works.

The indoor fan operates at the set speed and the compressor stops. This mode continues until the temperature of indoor heat exchanger rises.

2. Low outside temperature operation

When the outside temperature lowers during cool mode operation, low outside temperature operation starts, and the outdoor fan slows or stops.

11-2. DRY (riangle) OPERATION

- (1) Press OPERATE/STOP (ON/OFF) button.
 - OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
- (2) Select DRY mode with OPERATION SELECT button.
- (3) The set temperature is determined from the initial room temperature.

1. Coil frost prevention

- Coil frost prevention is as same as COOL mode. (11-1.1.)
- 2. Low outside temperature operation
 - Low outside temperature operation is as same as COOL mode. (11-1.2.)

11-3. HEAT (O) OPERATION (MSZ)

- (1) Press OPERATE/STOP (ON/OFF) button.
- OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone. (2) Select HEAT mode with OPERATION SELECT button.
- (3) Press TEMPERATURE buttons (TOO WARM or TOO COOL button) to select the desired temperature.
 - The setting range is 61 ~ 88°F.

1. Cold air prevention control

When the compressor is not operating or is starting, and the temperature of indoor heat exchanger and/or the room temperature is low or when defrosting is being done, the indoor fan will stop or rotate in Very Low speed.

2. High pressure protection

In HEAT operation the compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the condensing pressure from increasing excessively.

3. Defrosting

Defrosting starts when the temperature of outdoor heat exchanger becomes too low.

The indoor/outdoor fans stop, the 4-way valve reverses, and the compressor starts.

This mode continues until the temperature of outdoor heat exchanger rises or the fixed time passes.

11-4. FAN(%) OPERATION (MSY)

- (1) Press OPERATE/STOP (ON/OFF) button.
 - OPERATION INDICATOR lamp of the indoor unit turns ON with a beep tone.
- (2) Select FAN mode with OPERATION SELECT button.
- (3) Select the desired fan speed. When AUTO, it becomes Low. Only indoor fan operates. Outdoor unit does not operate.

11-5. "I FEEL CONTROL" (☐) OPERATION (MSY)

- (1) Press OPERATE/STOP (ON/OFF) button on the remote controller. OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
- (2) Select "I FEEL CONTROL" mode with OPERATION SELECT button.
- (3) The operation mode is determined by the room temperature at start-up of the operation.
 - Once the mode is fixed, the mode does not change by room temperature afterwards.
 - Under the ON-TIMER (⊕→|) operation, mode is determined according to the room temperature at the set time the operation starts.

(4) The initial set temperature is decided by the initial room temperature.

Initial room temperature	Model	Initial set temperature			
79°F or more	COOL mode of "LEEEL CONTROL"	75°F			
77 to 79°F		Initial room temperature minus 4°F			
Less than 77°F	DRY mode of "I FEEL CONTROL"	Initial room temperature minus 4°F			

(5) TEMPERATURE buttons

In "I FEEL CONTROL" (____) mode, set temperature is decided by the microprocessor based on the room temperature. In addition, set temperature can be controlled by TOO WARM or TOO COOL buttons when you feel too cool or too warm. Each time the TOO WARM or TOO COOL button is pressed, the indoor unit receives the signal and emits a beep tone.

• Fuzzy control

When the TOO COOL or TOO WARM button is pressed, the microprocessor changes the set temperature, considering the room temperature, the frequency of pressing TOO COOL or TOO WARM button and the user's preference to heat or cool. So this is called "Fuzzy control", and works only in "I FEEL CONTROL" mode. In DRY mode of "I FEEL CONTROL", the set temperature does not change.

····To raise the set temperature 2~4°F

····To lower the set temperature 2~4°F

11-6. AUTO CHANGE OVER ··· AUTO MODE OPERATION (MSZ)

Once desired temperature is set, unit operation is switched automatically between COOL and HEAT operation.

Mode selection

TOO WARI

▼

(1) Initial mode

- When unit starts the operation with AUTO operation from OFF:
- If the room temperature is higher than the set temperature, operation starts in COOL mode.
- If the room temperature is equal to or lower than the set temperature, operation starts in HEAT mode.

(2) Mode change

COOL mode changes to HEAT mode when about 15 minutes have passed with the room temperature 2~4°F below the set temperature.

HEAT mode changes to COOL mode when about 15 minutes have passed with the room temperature 2~4°F above the set temperature.

NOTE:

If two or more indoor units are operating in multi system, there might be a case that the indoor unit, which is operating in \Box (AUTO), cannot change over to the other operating mode (COOL \leftrightarrow HEAT) and becomes a state of standby. Refer to 8-1. "INFORMATION FOR MULTI SYSTEM AIR CONDITIONER".

11-7. AUTO VANE OPERATION

1. Horizontal vane

- (1) Vane motor drive
- These models are equipped with a stepping motor for the horizontal vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approx. 12 V) transmitted from indoor microprocessor.
- (2) The horizontal vane angle and mode change as follows by pressing VANE CONTROL button.



(3) Positioning

The vane is once pressed to the vane stopper to confirm the standard position and then set to the desired angle. Confirming of standard position is performed in the following cases.

- (a) When the operation starts or finishes (including timer operation).
- (b) When the test run starts.
- (c) When multi-standby starts or finishes.
- (4) VANE AUTO (2) mode

In VANE AUTO mode, the microprocessor automatically determines the vane angle and operation to make the optimum room-temperature distribution.

(1) COOL and DRY operation

Vane angle is fixed to Horizontal position or Angle 1.





Vane angle is fixed to Angle 4.



- (5) STOP (operation OFF) and ON-TIMER standby
 - In the following cases, the horizontal vane returns to the closed position.
 - (a) When OPERATE/STOP (ON/OFF) button is pressed (POWER OFF).
 - (b) When the operation is stopped by the emergency operation.
 - (c) When ON-TIMER is ON standby.
- (6) Dew prevention

During COOL or DRY operation with the vane angle at Angle $2 \sim 4$ (A09 \sim 17) / Angle $3 \sim 5$ (A24) / Angle $4 \sim 5$ (GA24) when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 1 for dew prevention.

(7) SWING MODE (🔨)

By selecting SWING mode with VANE CONTROL button, the horizontal vane swings vertically. The remote controller displays " **T**_N".

(8) Cold air prevention in HEAT operation (MSZ)

The horizontal vane position is set to Upward.

NOTE: When 2 or more indoor units are operated with multi outdoor unit, even if any indoor unit turns thermostat OFF, this control does not work in the indoor unit.

(9) To change the airflow direction not to blow directly onto your body. (MSZ-A09/12/15/17, MSY-A15/17)

To change the airflow direction	When to use this function?	COOL/DRY	HEAT (For MSZ)
Pressing and holding VANE CONTROL button for 2 seconds or more, the horizontal vane reverses and moves horizontal position.	 Use this function if you do not want the air from the indoor unit to blow directly onto your body. Depending on the shape of the room, the air may blow directly onto your body. Press VANE CONTROL button again to return the vane to the previously-set position. 	The air conditioner starts the cooling or drying operation approx. 3 minutes after the vane has moved to the horizontal position. • When VANE CONTROL button is pressed again, the vane returns to the previously-set position and the air conditioner starts the cool or dry operation in approx. 3 minutes.	 The air conditioner starts heating operation approx. 3 minutes after the vane has moved to the horizontal position. Sometimes the area around your feet may not get warm. To warm the area around the feet, set the horizontal vane to @(AUTO) or the downward-blowing position. When VANE CONTROL button is pressed again, the vane returns to the previously-set position and the air conditioner starts the heat operation in approx. 3 minutes.

NOTE:

• If you make the airflow not to blow directly onto your body by pressing VANE CONTROL button, the compressor stops for 3 minutes even during the operation of the air conditioner.

• The air conditioner operates with Very Low speed until the compressor turns on again.

(10) ECONO COOL ((10) operation (ECONOmical operation)

When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 3.6°F higher than that in COOL mode.

Also the horizontal vane swings in various cycle.

SWING operation makes you feel cooler than set temperature. So, even though the set temperature is higher than that in COOL mode, the air conditioner can keep comfort. As a result, energy can be saved.

ECONO COOL operation is cancelled when ECONO COOL button is pressed once again or VANE CONTROL button is pressed or change to other operation mode.

(11) POWERFUL (🔊) operation

The air conditioner automatically adjusts the fan speed and the set temperature, and operates the POWERFUL mode. The POWERFUL mode is automatically released 15 minutes after operation starts, and the operation mode returns to the mode prior to POWERFUL operation.

2. Vertical vane (MSZ-A24, MSY-A24, MSZ-GA24, MSY-GA24)

(1) Vane motor drive

These models are equipped with a stepping motor for the vertical vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approx. 12 V) transmitted from microprocessor.

(2) The vertical vane angle and mode change as follows by pressing WIDE VANE button.



(3) Positioning

The vane is once pressed to the vane stopper to confirm the standard position and then set to the desired angle. Confirming of standard position is performed in the following cases.

- (a) When OPERATE/STOP (ON/OFF) button is pressed (POWER ON/OFF).
- (b) When SWING is started or finished.
- (c) When the power supply turns ON.

(4) SWING MODE (~~)

By selecting SWING mode with WIDE VANE button, the vertical vane swings horizontally. The remote controller displays " \leftarrow ".

(5) WIDE MODE (🛲)

By selecting WIDE mode with WIDE VANE button, indoor fan speed becomes faster than setting fan speed on the remote controller (*). The remote controller displays "

NOTE: The position of vane angle 3, angle 4 and angle 5 are different in COOL operation and HEAT operation. * Indoor fan speed becomes faster than setting fan speed on the remote controller even when _ or _ is selected.

11-8. TIMER OPERATION

1. How to set the time

- (1) Press OPERATE/STOP (ON/OFF) button to start the air conditioner.
- (2) Check that the current time is set correctly.
 - NOTE: Timer operation will not work without setting the current time. Initially "0:00" blinks at the current time display of TIME MONITOR, so set the current time correctly with CLOCK SET button.

How to set the current time

- (1) Press the CLOCK set button.
- (2) Press the TIME SET buttons (> and <) to set the current time.
 - Each time FORWARD button () is press, the set time increases by 1 minute, and each time BACKWARD button () is press, the set time decreases by 1 minute.
 - Pressing those buttons longer increases / decreases the set time by 10 minutes. Press the CLOCK set button.

ON timer setting

- (1) Press ON-TIMER button(Ostart) during operation.
- (2) Set the time of the timer using TIME SET buttons (> and) . *

OFF timer setting

(1) Press OFF-TIMER button (Destrop) during operation.

(2) Set the time of the timer using TIME SET buttons (> and). *

* Each time FORWARD button () is pressed, the set time increases by 10 minutes: each time BACKWARD button () is pressed, the set time decreases by 10 minutes.

2. Cancel

To cancel ON timer, press ON-TIMER button (

To cancel OFF timer, press OFF-TIMER button(

TIMER is cancelled and the display of set time disappears.

PROGRAM TIMER

• OFF timer and ON timer can be used in combination. The timer of the set time that is reached first will operate first.

• " + " and " + " display shows the order of OFF timer and ON timer operation.



The unit turns OFF at 11:00 PM, and ON at 6:00 AM.





(Example 2) The current time is 11:00 AM.

The unit turns ON at 5:00 PM, and OFF at 9:00 PM.





NOTE: If the main power is turned OFF or a power failure occurs while AUTO START/STOP timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled when power is restored.

11-9. EMERGENCY/TEST OPERATION

In case of test run operation or emergency operation, use EMERGENCY OPERATION switch on the front of the indoor unit. Emergency operation is available when the remote controller is missing, has failed or the batteries of the remote controller run down. The unit will start and OPERATION INDICATOR lamp will light.

The first 30 minutes of operation is the test run operation. This operation is for servicing. The Indoor fan speed runs at High speed and the system is in continuous operation (with thermostat ON).

After 30 minutes of test run operation the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 75°F. The fan speed shifts to Med.

All protective operations such as the coil frost prevention works even in emergency operation.

In the test run or emergency operation, the horizontal vane operates in VANE AUTO (2) mode.

Emergency operation continues until EMERGENCY OPERATION switch is pressed once or twice or the unit receives any signal from the remote controller. In case of latter normal operation will start.

NOTE: Do not press EMERGENCY OPERATION switch during normal operation.



11-10. Changing temperature indication (°F/°C)

MSZ-A•NA-



Press RESET button gently using a thin stick.



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