

Revision E:

MSZ-EF22/25/35/42/50VG2W/B/S - ET1,
 MSZ-EF18VGK2W/B/S - E1 and
 MSZ-EF22/25/35/42/50VGK2W/B/S - E1, ET1
 have been added.

OBH831 REVISED EDITION-D is void.

INDOOR UNIT

No. OBH831 REVISED EDITION-E

SERVICE MANUAL

Models

MSZ-EF18VGW/B/S - EI, EZ

MSZ-EF22VGW/B/S - ET, ETT, EZ, ETZ, ET3

MSZ-EF25VGW/B/S - E1 ET1 E2 ET2 ET3

MSZ-EF35VGW/B/S - E1 ET1 E2 ET2 ET3

MSZ-EF42VGW/B/S - EI, EII, E2, EI2, EI3

MSZ-EF50VGW/B/S - E1, E11, E2, E12, E13

MSZ-EF22VG2W/B/S - ETT

MSZ-EF25VG2W/B/S - ETT

MSZ-EF35VG2W/B/S - ETT

MSZ-EF42VG2W/B/S - ETI

MSZ-EF50VG2W/B/S - ETT

MSZ-EF18VGKW/B/S - E1 E2

MSZ-EF22VGKW/B/S - E1, E11, E21, E12, E12, E12

MSZ-EF25VGKW/B/S - E1 ET1 ER1 E2 ET2 ER2

MSZ-EF35VGKW/B/S - E1 ET1 ER1 E2 ET2 ER2

MSZ-EF42VGKW/B/S - E1 ET1 ER1 E2 ET2 ER2

MSZ-EF50VGKW/B/S - E1, E11, ER1, E2, E12, ER2

MSZ-EF18VGK2W/B/S - ET

MSZ-EF22VGK2W/B/S - EI, ETI

MSZ-EF25VGK2W/B/S - ET ETT

MSZ-EF35VGK2W/B/S - ET ETT

MSZ-EF42VGK2W/B/S - EI EI

MSZ-EF50VGK2W/B/S - EII EII

MXZ-F·VF Series(OBH790)

MSZ-EF·VGW/VGKW MSZ-EF·VGB/VGKB MSZ-EF·VGS/VGKS



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PARTS CATALOG (OBB831)

Use the specified refrigerant only

Never use any refrigerant other than that specified.

Doing so may cause a burst, an explosion, or fire when the unit is being used, serviced, or disposed of.

Correct refrigerant is specified in the manuals and on the spec labels provided with our products.

We will not be held responsible for mechanical failure, system malfunction, unit breakdown or accidents caused by failure to follow the instructions.

<Pre><Preparation before the repair service>

- Prepare the proper tools.
- Prepare the proper protectors.
- Provide adequate ventilation.
- After stopping the operation of the air conditioner, turn off the power-supply breaker and pull the power plug.
- Discharge the capacitor before the work involving the electric parts.

<Pre><Pre>cautions during the repair service>

- Do not perform the work involving the electric parts with wet hands.
- Do not pour water into the electric parts.
- Do not touch the refrigerant.
- Do not touch the hot or cold areas in the refrigeration cycle.
- When the repair or the inspection of the circuit needs to be done without turning off the power, exercise great caution not to touch the live parts.

A WARNING

- · When the refrigerant circuit has a leak, do not execute pump down with the compressor.
- When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes.
 The compressor may burst if air etc. get into it.
- When opening or closing the valve below freezing temperatures, refrigerant may spurt out from the gap between the valve stem and the valve body, resulting in injuries.

Revision A:

MSZ-EF18/22/25/35/42/50VGW/B/S - E2, MSZ-EF22/25/35/42/50VGW/B/S - ET2, MSZ-EF18/22/25/35/42/50VGKW/B/S - ET1 and MSZ-EF22/25/35/42/50VGKW/B/S - ET1 have been added.

Revision B:

MSZ-EF22/25/35/42/50VGKW/B/S - ER1 have been added.

Revision C:

10. TROUBLESHOOTING has been modified.

Revision D:

• MSZ-EF22/25/35/42/50VGW/B/S - ET3, MSZ-EF18/22/25/35/42/50VGKW/B/S - E2 and MSZ-EF22/25/35/42/50VGKW/B/S - ET2, ER2 have been added.

Revision E:

MSZ-EF22/25/35/42/50VG2W/B/S - ET1, MSZ-EF18VGK2W/B/S - E1 and MSZ-EF22/25/35/42/50VGK2W/B/S - E1, ET1 have been added.

TECHNICAL CHANGES

The following models are compatible with the outdoor units with low standby power control.

Connecting the following models to the MUZ-EF-VG/H series outdoor units enables the low standby power control.

The following models may be connected to the **MUZ-EF·VG/H** series after once connected to the **MXZ series** and operated, for example because of relocation. In that case, the **MUZ-EF·VG/H** series outdoor units will not operate without taking a step. Follow the procedure "Deleting the memorized abnormal condition" described in 10-2.1.

MSZ-EF18VGW/B/S - E1

1

- MSZ-EF22VGW/B/S E1, ET1
- MSZ-EF25VGW/B/S E1, ET1
- MSZ-EF35VGW/B/S E1, ET1
- MSZ-EF42VGW/B/S E1, ET1
- MSZ-EF50VGW/B/S E1, ET1
- MSZ-EF18VGKW/B/S E1
- MSZ-EF22VGKW/B/S E1, ET1, ER1
- MSZ-EF25VGKW/B/S E1, ET1, ER1
- MSZ-EF35VGKW/B/S E1, ET1, ER1
- MSZ-EF42VGKW/B/S E1, ET1, ER1
- MSZ-EF50VGKW/B/S E1, ET1, ER1
- 1. New model
- MSZ-EF18VGW/B/S E1
- MSZ-EF22VGW/B/S E1, ET1
- WISZ-EFZZVGVV/B/S E1, ET1
- MSZ-EF25VGW/B/S E1, ET1
- MSZ-EF35VGW/B/S E1, ET1
- MSZ-EF42VGW/B/S E1, ET1
- MSZ-EF50VGW/B/S E1, ET1
- → MSZ-EF18VGW/B/S E2
- → MSZ-EF22VGW/B/S E2, ET2
- → MSZ-EF25VGW/B/S E2, ET2
- → MSZ-EF35VGW/B/S E2, ET2
- → MSZ-EF42VGW/B/S E2, ET2
- → MSZ-EF50VGW/B/S E2, ET2
- 1. Indoor electronic control P.C. board has been changed.
- MSZ-EF22VGW/B/S ET2
- MSZ-EF25VGW/B/S ET2
- MSZ-EF35VGW/B/S ET2
- MSZ-EF42VGW/B/S-ET2
- MSZ-EF50VGW/B/S-ET2
- MSZ-EF18VGKW/B/S E1
- MSZ-EF22VGKW/B/S E1, ET1, ER1
- MSZ-EF25VGKW/B/S E1, ET1, ER1
- MSZ-EF35VGKW/B/S E1, ET1, ER1
- MSZ-EF42VGKW/B/S E1, ET1, ER1
- MSZ-EF50VGKW/B/S E1, ET1, ER1
- 1. Compressor protector has been added.

- → MSZ-EF22VGW/B/S ET3
- → MSZ-EF25VGW/B/S ET3
- → MSZ-EF35VGW/B/S ET3
- → MSZ-EF42VGW/B/S ET3
- → MSZ-EF50VGW/B/S ET3
- → MSZ-EF18VGKW/B/S E2
- → MSZ-EF22VGKW/B/S E2, ET2, ER2
- → MSZ-EF25VGKW/B/S E2, ET2, ER2
- → MSZ-EF35VGKW/B/S E2, ET2, ER2
- → MSZ-EF42VGKW/B/S E2, ET2, ER2
- → MSZ-EF50VGKW/B/S E2, ET2, ER2

MSZ	-EF2	22VG	W/B	/S -	ET3

MSZ-EF25VGW/B/S - ET3

MSZ-EF35VGW/B/S - ET3

MSZ-EF42VGW/B/S-ET3

MSZ-EF50VGW/B/S-ET3

MSZ-EF18VGKW/B/S - E2

MSZ-EF22VGKW/B/S - E2, ET2

MSZ-EF25VGKW/B/S - E2, ET2

MSZ-EF35VGKW/B/S - E2, ET2

MSZ-EF42VGKW/B/S - E2, ET2

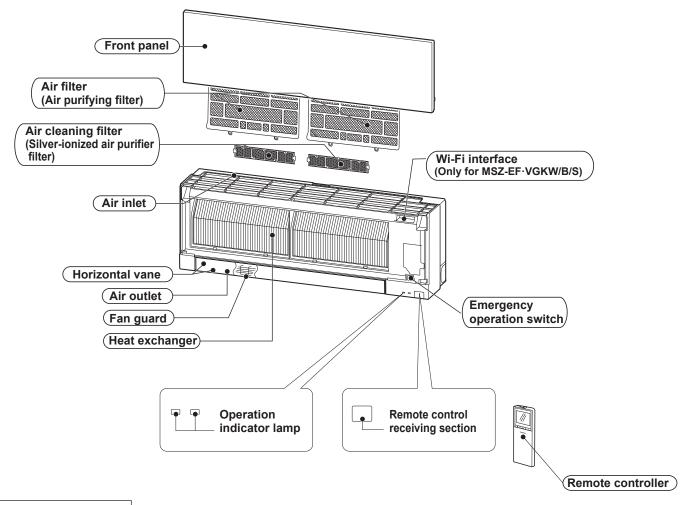
MSZ-EF50VGKW/B/S - E2, ET2

- 1. Indoor electronic control P.C. board has been changed.
- 2. Wi-Fi interface has been changed.
- 3. Remote controller has been changed.

- → MSZ-EF22VG2W/B/S ET1
- → MSZ-EF25VG2W/B/S ETT
- → MSZ-EF35VG2W/B/S ET1
- → MSZ-EF42VG2W/B/S ET1
- → MSZ-EF50VG2W/B/S-ETT
- → MSZ-EF18VGK2W/B/S -
- → MSZ-EF22VGK2W/B/S E1, ET1
- → MSZ-EF25VGK2W/B/S E1, ET1
- → MSZ-EF35VGK2W/B/S E1, ET1
- → MSZ-EF42VGK2W/B/S E1, ET1
- → MSZ-EF50VGK2W/B/S E1, ET1

PART NAMES AND FUNCTIONS

MSZ-EF18VGW MSZ-EF22VGW MSZ-EF25VGW MSZ-EF35VGW MSZ-EF42VGW MSZ-EF50VGW MSZ-EF22VGB MSZ-EF18VGB MSZ-EF25VGB MSZ-EF35VGB MSZ-EF42VGB MSZ-EF50VGB MSZ-EF18VGS **MSZ-EF22VGS MSZ-EF25VGS** MSZ-EF35VGS MSZ-EF42VGS **MSZ-EF50VGS** MSZ-EF18VGKW MSZ-EF22VGKW MSZ-EF25VGKW MSZ-EF35VGKW MSZ-EF42VGKW MSZ-EF50VGKW MSZ-EF18VGKB MSZ-EF22VGKB MSZ-EF25VGKB MSZ-EF35VGKB MSZ-EF42VGKB MSZ-EF50VGKB MSZ-EF18VGKS MSZ-EF22VGKS MSZ-EF25VGKS MSZ-EF35VGKS MSZ-EF42VGKS MSZ-EF50VGKS



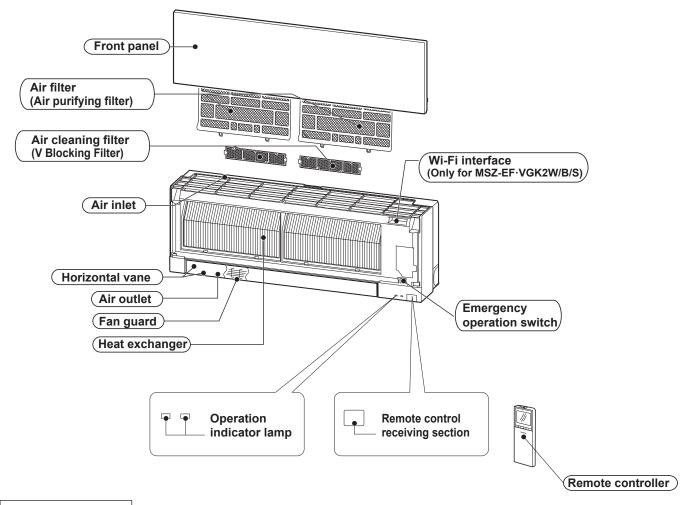
ACCESSORIES

2

Model	MSZ-EF18VGW MSZ-EF18VGB MSZ-EF18VGS MSZ-EF22VGW MSZ-EF22VGB MSZ-EF22VGS MSZ-EF25VGW MSZ-EF25VGB MSZ-EF25VGS MSZ-EF35VGW MSZ-EF35VGB MSZ-EF35VGS MSZ-EF42VGW MSZ-EF42VGB MSZ-EF42VGS MSZ-EF50VGW MSZ-EF50VGB MSZ-EF50VGS MSZ-EF18VGKW MSZ-EF18VGKB MSZ-EF18VGKS MSZ-EF22VGKW MSZ-EF22VGKB MSZ-EF22VGKS MSZ-EF25VGKW MSZ-EF25VGKB MSZ-EF25VGKS MSZ-EF35VGKW MSZ-EF35VGKB MSZ-EF35VGKS MSZ-EF42VGKW MSZ-EF42VGKB MSZ-EF42VGKS MSZ-EF42VGKW MSZ-EF42VGKB MSZ-EF50VGKS
(1) Installation plate	1
(2) Installation plate fixing screw 4 × 25 mm	5
(3) Battery (AAA) for remote controller	2
(4) Wireless remote controller	1
(5) Felt tape (For left or left-rear piping)	1
(6) Soft dry cloth (VGB type only)	1
(7) Air cleaning filter	2

5

MSZ-EF22VG2W MSZ-EF25VG2W MSZ-EF35VG2W MSZ-EF42VG2W MSZ-EF50VG2W
MSZ-EF22VG2B MSZ-EF25VG2B MSZ-EF35VG2B MSZ-EF42VG2B MSZ-EF50VG2B
MSZ-EF22VG2S MSZ-EF25VG2S MSZ-EF35VG2S MSZ-EF42VG2S MSZ-EF50VG2S
MSZ-EF18VGK2W MSZ-EF22VGK2W MSZ-EF25VGK2W MSZ-EF35VGK2W MSZ-EF42VGK2W MSZ-EF50VGK2W
MSZ-EF18VGK2B MSZ-EF22VGK2B MSZ-EF25VGK2B MSZ-EF35VGK2B MSZ-EF42VGK2B MSZ-EF50VGK2B
MSZ-EF18VGK2S MSZ-EF22VGK2S MSZ-EF25VGK2S MSZ-EF35VGK2S MSZ-EF42VGK2S MSZ-EF50VGK2S



ACCESSORIES

Model	MSZ-EF22VG2W MSZ-EF22VG2B MSZ-EF22VG2S MSZ-EF25VG2W MSZ-EF25VG2B MSZ-EF25VG2S MSZ-EF35VG2W MSZ-EF35VG2B MSZ-EF35VG2S MSZ-EF42VG2W MSZ-EF42VG2B MSZ-EF42VG2S MSZ-EF50VG2W MSZ-EF50VG2B MSZ-EF50VG2S MSZ-EF18VGK2W MSZ-EF18VGK2B MSZ-EF18VGK2S MSZ-EF22VGK2W MSZ-EF22VGK2B MSZ-EF22VGK2S MSZ-EF25VGK2W MSZ-EF25VGK2B MSZ-EF25VGK2S MSZ-EF35VGK2W MSZ-EF35VGK2B MSZ-EF35VGK2S MSZ-EF42VGK2W MSZ-EF42VGK2B MSZ-EF42VGK2S MSZ-EF50VGK2W MSZ-EF50VGK2B MSZ-EF50VGK2S
(1) Installation plate	1
(2) Installation plate fixing screw 4 × 25 mm	5
(3) Battery (AAA) for remote controller	2
(4) Wireless remote controller	1
(5) Felt tape (For left or left-rear piping)	1
(6) Soft dry cloth (VGB type only)	1
(7) Air cleaning filter	2

SPECIFICATION

Indoor model					MSZ-EF18VGW MSZ-EF18VGB MSZ-EF18VGS MSZ-EF18VGKW MSZ-EF18VGKB MSZ-EF18VGKS	MSZ-EF22VGW MSZ-EF22VGB MSZ-EF22VGS MSZ-EF22VGKW MSZ-EF22VGKB MSZ-EF22VGKS	MSZ-EF25VGW MSZ-EF25VGB MSZ-EF25VGS MSZ-EF25VGKW MSZ-EF25VGKB MSZ-EF25VGKS	MSZ-EF35VGW MSZ-EF35VGB MSZ-EF35VGS MSZ-EF35VGKW MSZ-EF35VGKB MSZ-EF35VGKS
		Pov	wer supply			Single phase	230 V, 50 Hz	
_	Power	r input	Cooling	l w		2	0	
Electrical data	* 1		Heating	**		26		30
Elect data	Runni	ng	Cooling	A		0.	20	
Ψё			Heating			0.26		0.29
_	Model		I)J40	
ran motor	Curre	nt * 1	Cooling	A			20	
			Heating			0.26	20 405	0.29
	ensions	5 VV × I	Ч×D	mm		885 × 29		
Veig		4:		kg			.5 -	
	Air dir	ection	Cupar High				5	
			Super High High	-			30 98	
		Cooling	Med.	m³/h			98 78	
		000	Low	-			76	
	>		Silent	-			10	
	Airflow		Super High			714	+0	762
	₹		High	-	534			702
		aţiu	Med.	m³/h		372		
		Heating	Low			2		
			Silent				10	
			Super High			4		
		D D	High	1		3		
S		Cooling	Med.	dB(A)		29		30
ark	e e	ပိ	Low	i ' '		23		24
.e.m	<u> </u>		Silent	1		19		21
Special remarks	Sound level		Super High			45		46
bec	So	бL	High	7 i		37		38
S		Heating	Med.	dB(A)		29		30
		<u> </u>	Low			2	4	
			Silent			2	1	
			Super High]		1,2	200	
		Cooling	High]			90	
		00	Med.	rpm			00	
	eq	O	Low	_	630			
	Fan speed		Silent				70	
	an		Super High	-		1,330		1,400
	ш.	ing	High	4	1,050			
		Heating	Med.	rpm			90	
		ı I	Low	-			30	
			Silent				70	
	⊦an s	peed r	egulator				C104	
_	note cor	ntroller	model			W: S B,S: S	G19A	

NOTE: Test conditions are based on ISO 5151.

Cooling: Indoor Dry-bulb temperature 27°C Wet-bulb temperature 19°C

Outdoor Dry-bulb temperature 35°C Heating: Indoor Dry-bulb temperature 20°C

Outdoor Dry-bulb temperature 7°C Wet-bulb temperature 6°C

*1 Measured under rated operating frequency.

Fuse	(F11)	T3.15AL250V
Horizontal vane motor	(MV)	12 V DC
Varistor	(NR11)	470 V
Terminal block	(TB)	3P

	Indoor model				MSZ-EF18VGK2W MSZ-EF18VGK2B MSZ-EF18VGK2S	MSZ-EF22VG2W MSZ-EF22VG2B MSZ-EF22VG2S MSZ-EF22VGK2W MSZ-EF22VGK2B MSZ-EF22VGK2S	MSZ-EF25VG2W MSZ-EF25VG2B MSZ-EF25VG2S MSZ-EF25VGK2W MSZ-EF25VGK2B MSZ-EF25VGK2S	MSZ-EF35VG2W MSZ-EF35VG2B MSZ-EF35VG2S MSZ-EF35VGK2W MSZ-EF35VGK2B MSZ-EF35VGK2S	
			ver supply			Single phase	230 V, 50 Hz		
_	Power	input	Cooling	l w l		20)		
<u>ië</u>	*1		Heating			26		30	
Electrical data	Runnii	ng .	Cooling	A		0.2	0		
й			Heating			0.26		0.29	
	Model		T			RC0			
Fan	Currer	nt * 1	Cooling	A		0.2	0		
			Heating			0.26		0.29	
-	ensions	W×I	H × D	mm		885 × 29			
Weig		4!		kg		11			
	Air dire	ection	0			5			
		_	Super High	-		66			
		ling	High Med. m³/h	- 3/1-		522			
		8	Med.	m³/h	390 270				
	>	0	Low	-		22			
	Airflow		Super High			750	0	804	
	₹	Heating	High	-	558			004	
			Med.	m³/h	384				
		1es	Low	1117/11		27			
		_	Silent	1		22			
			Super High			42			
		Б	High	1		36			
l "		Cooling	Med.	dB(A)		29		30	
ark R	<u>_</u>	Ö	Low	23			24		
Special remarks	Sound level		Silent	1		21			
a	pur		Super High			19 45		46	
) eci	Sot	g	High	1		37		38	
l g		Heating	Med.	dB(A)		29		30	
		H	Low	1 ` ′	24				
			Silent	1		21			
			Super High			1,20	00		
		рu	High] [99	0		
		Coolin	Med.	rpm		800			
	pe	ŏ	Low		630				
	be		Silent			57	0		
	Fan speed		Super High]]		1,320		1,400	
	<u>L</u>	Heating	High]		1,0			
		eati	Med.	rpm		79			
		Ĭ	Low			63			
			Silent			57			
	Fan sp	peed r	egulator			5			
Rem	ote cor	ntroller	model			SH2			
						SH2	υr		

NOTE: Test conditions are based on ISO 5151.

Cooling: Indoor Dry-bulb temperature 27°C Wet-bulb temperature 19°C

Outdoor Dry-bulb temperature 35°C

Heating: Indoor Dry-bulb temperature 20°C

Outdoor Dry-bulb temperature 7°C Wet-bulb temperature 6°C

***1** Measured under rated operating frequency.

- I		
Fuse	(F11)	T3.15AL250V
Horizontal vane motor	(MV)	12 V DC
Varistor	(NR11)	470 V
Terminal block	(TB)	3P

Indoor model					MSZ-EF42VGW MSZ-EF42VGB MSZ-EF42VGS MSZ-EF42VGKW MSZ-EF42VGKB MSZ-EF42VGKS	MSZ-EF50VGW MSZ-EF50VGB MSZ-EF50VGS MSZ-EF50VGKW MSZ-EF50VGKB MSZ-EF50VGKS
		Pov	wer supply		Single phase	230 V, 50 Hz
<u>_</u>	Power	input	Cooling	W	23	23
ica	*1		Heating	V V	33	43
ecti	*1 Runnii	ng	Cooling	Α	0.23	0.23
ы e	curren	t * 1	Heating		0.31	0.39
Ι.	Model)J40
Fan motor	Currer	nt % 1	Cooling	Α	0.23	0.23
Fan	Currer	114-1	Heating	_ ^	0.31	0.39
	ensions	W×I	H × D	mm	885 × 29	99 × 195
Weig	ht			kg		.5
	Air dire	ection			Į.	5
			Super High		672	678
		ρυ	High] [534	552
		Cooling	Med.	m³/h	462	474
		Ö	Low] [396	408
	Airflow		Silent	m³/h	34	48
	Airf		Super High		792	876
	`	бL	High		594	666
ĺ		Heating	Med.		468	540
İ		He	Low		378	432
			Silent		330	384
ĺ			Super High		43	43
		g	High		39	40
l w		Cooling	Med.	dB(A)	35	36
ark	<u>e</u>	ပိ	Low	1 ` 1	31	33
Special remarks	Sound level		Silent		28	30
<u>a</u>	pur		Super High		48	49
) ec	Sol	g	High	1 1	41	43
ਲ <u>୍</u> ਹ		Heating	Med.	dB(A)	35	37
		He	Low	1 ` ′	30	33
			Silent	1 1	28	30
l			Super High		1,260	1,270
		D	High	1	1,050	1,080
		Cooling	Med.	rpm	930	950
	ō	රි	Low	1 '	830	850
	Fan speed		Silent	1 1		50
	n s		Super High		1,440	1,570
	Fа	g	High	1	1,140	1,250
		Heating	Med.	rpm	940	1,060
		Ĕ	Low	† '	800	890
			Silent	1 1	720	810
	Fan sr	peed r	egulator			5
_						G19A
Rem	ote cor	ntroller	model			GG19B

NOTE: Test conditions are based on ISO 5151.

Indoor Dry-bulb temperature 27°C Wet-bulb temperature 19°C Outdoor Dry-bulb temperature 35°C Cooling: Indoor

Heating: Indoor Dry-bulb temperature 20°C

Outdoor Dry-bulb temperature 7°C Wet-bulb temperature 6°C

*1 Measured under rated operating frequency.

Fuse	(F11)	T3.15AL250V
Horizontal vane motor	(MV)	12 V DC
Varistor	(NR11)	470 V
Terminal block	(TB)	3P

	Indoor model				MSZ-EF42VG2W MSZ-EF42VG2B MSZ-EF42VG2S MSZ-EF42VGK2W MSZ-EF42VGK2B MSZ-EF42VGK2S	MSZ-EF50VG2W MSZ-EF50VG2B MSZ-EF50VG2S MSZ-EF50VGK2W MSZ-EF50VGK2B MSZ-EF50VGK2S
		Pov	ver supply		Single phase	230 V, 50 Hz
_	Power	input	Cooling	w	23	23
Electrical data	*1		Heating	**	33	43
ecti	Runnii	ng	Cooling	A	0.23	0.23
□ ÿ			Heating		0.31	0.39
_	Model		1		RCC	
Fan	Currer	nt * 1	Cooling	A	0.23	0.23
			Heating		0.31	0.39
	ensions	W×F	H × D	mm	885 × 29	
Weig				kg	11	.5
	Air dir	ection	ı			5
			Super High	1	708	714
		ng	High		558	582
		Cooling	Med.	m³/h	480	492
		Ö	Low		408	420
	Airflow		Silent	m³/h	38	54
	Air		Super High		834	930
		ng	High		624	702
		Heating	Med.		486	570
		Ĭ	Low		390	450
			Silent		336	396
			Super High		43	43
		ng	High		39	40
l s		Cooling	Med.	dB(A)	35	36
nar	ve	Ö	Low		31	33
Special remarks	Sound level		Silent		28	30
Sial	ng		Super High		48	49
be	Š	Heating	High		41	43
00		eati	Med.	dB(A)	35	37
		I	Low		30	33
			Silent		28	30
			Super High	_	1,260	1,270
		ing	High	_	1,050	1,080
		Coolin	Med.	rpm	930	950
	eq	Ō	Low		830	850
	Fan speed		Silent			50
	an		Super High		1,440	1,570
	LE	Heating	High	_	1,140	1,250
		eat	Med.	rpm	940	1,060
		Ĭ	Low	_	800	890
			Silent		720	810
<u> </u>	Fan sp	peed re	egulator			5
Rem	ote cor	ntroller	model		W: SI B,S: S	H25E SH25F

NOTE: Test conditions are based on ISO 5151.

Cooling: Indoor Dry-bulb temperature 27°C Wet-bulb temperature 19°C

Outdoor Dry-bulb temperature 35°C

Heating: Indoor Dry-bulb temperature 20°C

Outdoor Dry-bulb temperature 7°C Wet-bulb temperature 6°C

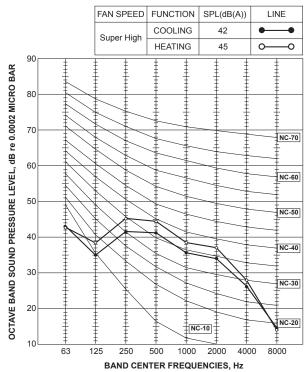
***1** Measured under rated operating frequency.

Fuse	(F11)	T3.15AL250V
Horizontal vane motor	(MV)	12 V DC
Varistor	(NR11)	470 V
Terminal block	(TB)	3P

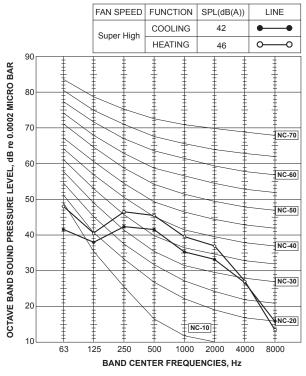
4

NOISE CRITERIA CURVES

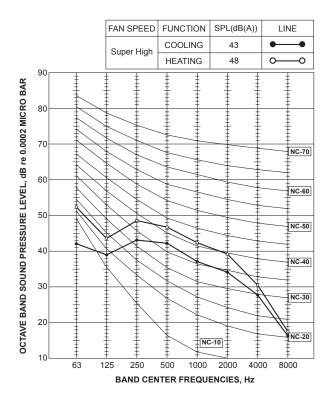
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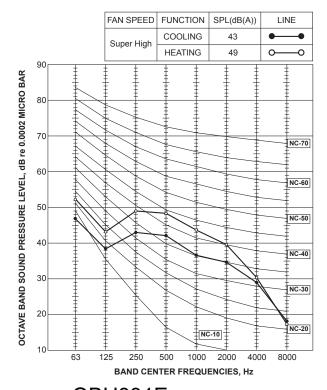
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MSZ-EF42VGW MSZ-EF42VGKW MSZ-EF42VG2W MSZ-EF42VGK2W MSZ-EF42VGB MSZ-EF42VGKB MSZ-EF42VG2B MSZ-EF42VGK2B MSZ-EF42VGK MSZ-EF42VGX MSZ-EF42VGXS

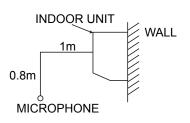


MSZ-EF50VGW MSZ-EF50VGKW MSZ-EF50VG2W MSZ-EF50VGK2W MSZ-EF50VGB MSZ-EF50VGKB MSZ-EF50VG2B MSZ-EF50VGK2B MSZ-EF50VGK MSZ-EF50VGK2S



Test conditions

Cooling: Dry-bulb temperature 27 °C
Wet-bulb temperature 19 °C
Heating: Dry-bulb temperature 20 °C



OUTLINES AND DIMENSIONS

5

MSZ-EF18VGW MSZ-EF25VGW MSZ-EF22VGW MSZ-EF35VGW MSZ-EF42VGW MSZ-EF50VGW MSZ-EF18VGB MSZ-EF22VGB MSZ-EF25VGB MSZ-EF35VGB MSZ-EF42VGB MSZ-EF50VGB **MSZ-EF22VGS MSZ-EF25VGS MSZ-EF18VGS** MSZ-EF35VGS MSZ-EF42VGS **MSZ-EF50VGS** MSZ-EF18VGKW MSZ-EF22VGKW MSZ-EF25VGKW MSZ-EF35VGKW MSZ-EF42VGKW MSZ-EF50VGKW MSZ-EF18VGKB MSZ-EF22VGKB MSZ-EF25VGKB MSZ-EF35VGKB MSZ-EF42VGKB MSZ-EF50VGKB MSZ-EF18VGKS MSZ-EF22VGKS MSZ-EF25VGKS MSZ-EF35VGKS MSZ-EF42VGKS MSZ-EF50VGKS

Unit: mm 11×26 Oblong hole II×20 Oblong hole Installation plate 885 875 255 254 212 I<u>nd oor unit</u> 180 180 44 In case of left, left back,or left under piping (using spacer), III or more. 62.5 380 84.5 Wall hole ∮65 Air 195 Installation plate 35 or more 25 or more 299 Piping ---47 28 60. <u>Drain</u> hose 153 (54) Insulatión ≎⊍ ∮ø37 O.D ⁵ Liquid line ø6.35 - 0.5 m (Flared connection ø6.35) Gas line ø9.52 - 0.43 m (Flared connection: ø9.52)

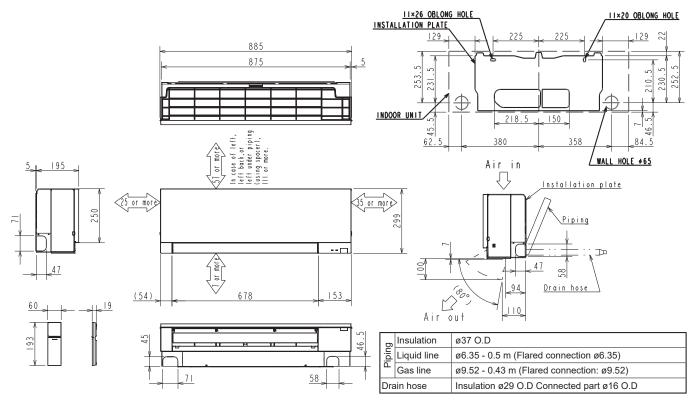
58

Drain hose

Insulation ø29 O.D Connected part ø16 O.D

MSZ-EF22VG2W MSZ-EF25VG2W MSZ-EF35VG2W MSZ-EF42VG2W MSZ-EF50VG2W
MSZ-EF22VG2B MSZ-EF25VG2B MSZ-EF35VG2B MSZ-EF42VG2B MSZ-EF50VG2B
MSZ-EF22VG2S MSZ-EF25VG2S MSZ-EF35VG2S MSZ-EF42VG2S MSZ-EF50VG2S
MSZ-EF18VGK2W MSZ-EF22VGK2W MSZ-EF25VGK2W MSZ-EF35VGK2W MSZ-EF42VGK2W MSZ-EF50VGK2W
MSZ-EF18VGK2B MSZ-EF22VGK2B MSZ-EF25VGK2B MSZ-EF35VGK2B MSZ-EF42VGK2B MSZ-EF50VGK2B
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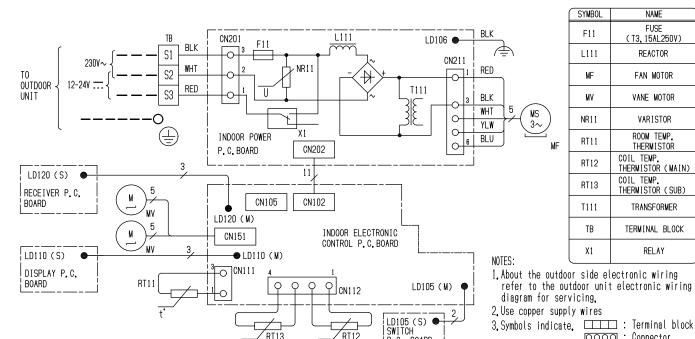
Unit: mm



WIRING DIAGRAM

6

MSZ-EF18VGW - ET MSZ-EF22VGW - ET MSZ-EF25VGW - 🗉 MSZ-EF35VGW - ET MSZ-EF42VGW - ET MSZ-EF50VGW - ET MSZ-EF25VGB - ET MSZ-EF18VGB - E MSZ-EF22VGB - ET MSZ-EF35VGB - 🗉 MSZ-EF42VGB - ET MSZ-EF50VGB - E MSZ-EF18VGS - ET MSZ-EF22VGS - ET MSZ-EF25VGS - ET MSZ-EF35VGS - ET MSZ-EF42VGS - ET MSZ-EF50VGS - E

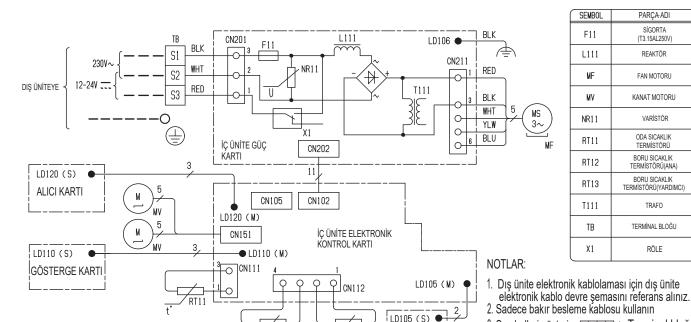


MSZ-EF22VGW-ET1 MSZ-EF25VGW-ET1 MSZ-EF35VGW-ETT MSZ-EF42VGW-ET1 MSZ-EF50VGW-ET1 MSZ-EF22VGB - ET1 MSZ-EF25VGB - **■** MSZ-EF35VGB - **■** MSZ-EF42VGB - ETT MSZ-EF50VGB - ETT MSZ-EF22VGS-ETT MSZ-EF25VGS - ETT MSZ-EF35VGS-ET1 MSZ-EF42VGS-ETT MSZ-EF50VGS-ETT

BOARD

OOOO : Connector

oooo: Konektör



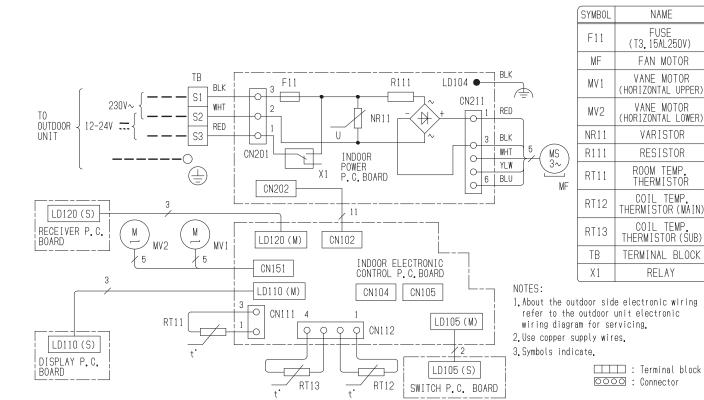
RT12

SİVİÇ KARTI

MSZ-EF18VGW-E2 MSZ-EF18VGB-E2

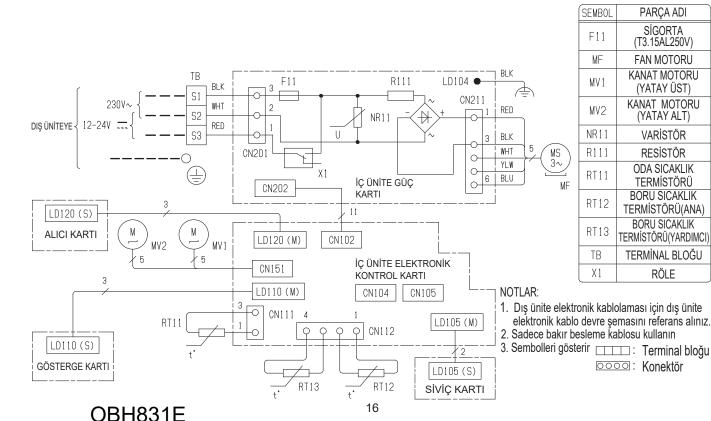
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MSZ-EF22VGB - E2 MSZ-EF22VGS - E2 MSZ-EF25VGW-E2 MSZ-EF25VGB-E2 MSZ-EF25VGS-E2 MSZ-EF35VGW-E2 MSZ-EF35VGB-E2 MSZ-EF35VGS-E2 MSZ-EF42VGW - E2 MSZ-EF42VGB - E2 MSZ-EF42VGS - E2

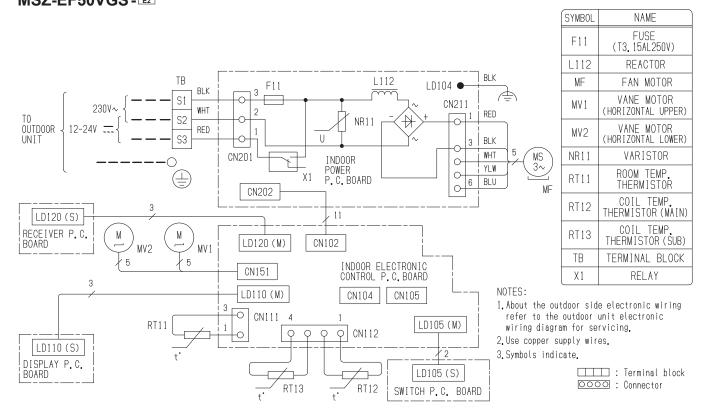


MSZ-EF22VGW-ET2 M MSZ-EF22VGB-ET2 M MSZ-EF22VGS-ET2 M

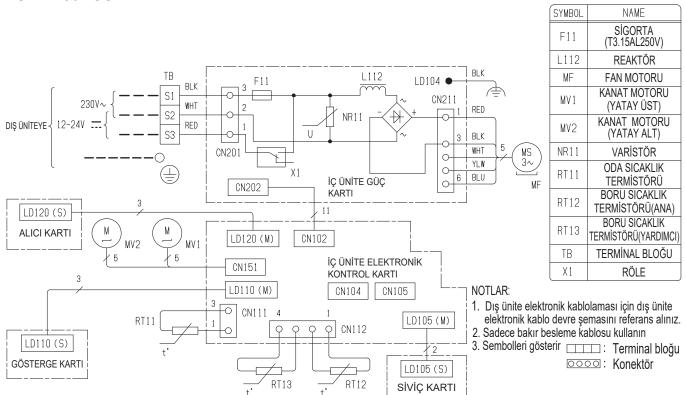
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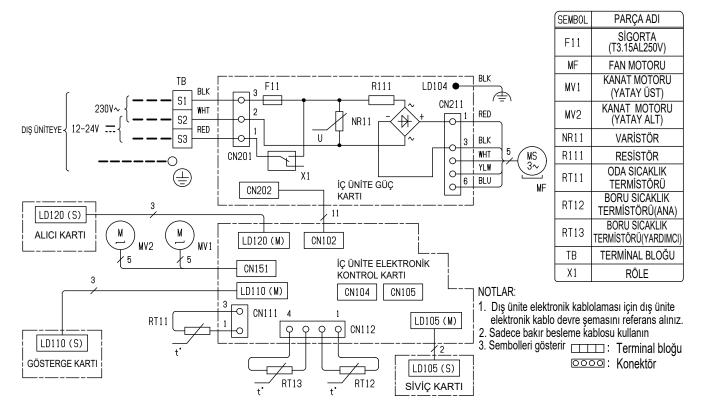
MSZ-EF50VGW - E2 MSZ-EF50VGS - E2



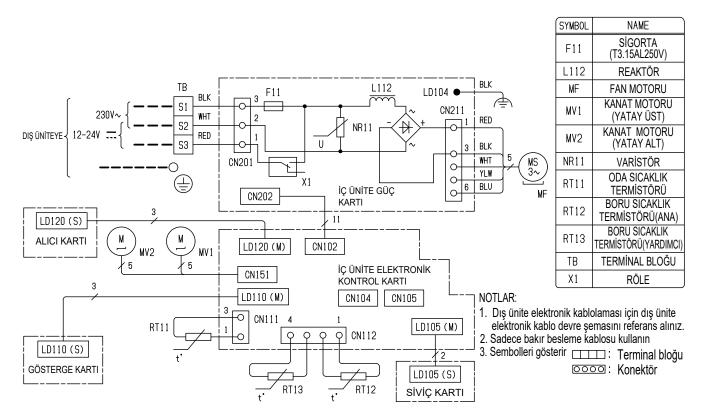
MSZ-EF50VGW - ETZ MSZ-EF50VGB - ETZ MSZ-EF50VGS - ETZ



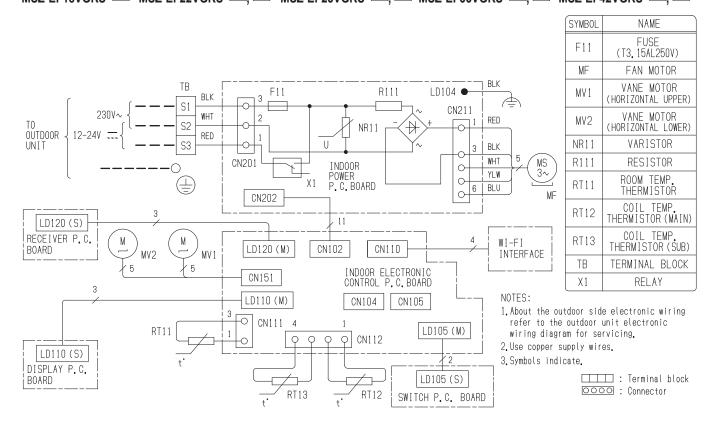
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MSZ-EF50VGW - ET3 MSZ-EF50VGB - ET3 MSZ-EF50VGS - ET2



MSZ-EF18VGKW-E1 MSZ-EF22VGKW-E1, ERI MSZ-EF35VGKW-E1, ERI MSZ-EF35VGKW-E1, ERI MSZ-EF42VGKW-E1, ERI MSZ-EF18VGKB-E1 MSZ-EF22VGKB-E1, ERI MSZ-EF25VGKB-E1, ERI MSZ-EF35VGKB-E1, ERI MSZ-EF42VGKB-E1, ERI MSZ-EF42VGKS-E1, ERI MSZ-EF42VGKS-E1, ERI MSZ-EF42VGKS-E1, ERI MSZ-EF42VGKS-E1, ERI MSZ-EF42VGKS-E1, ERI

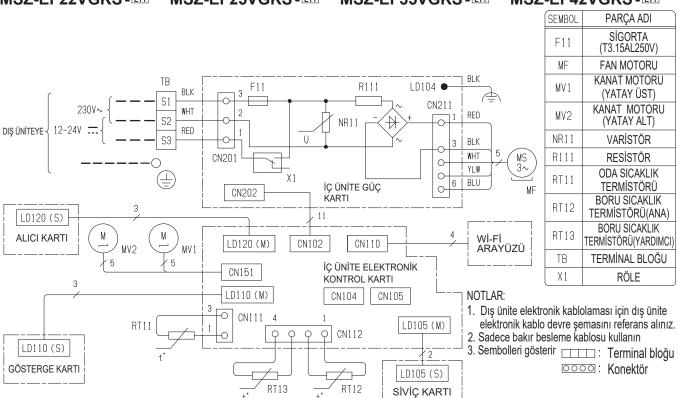


MSZ-EF22VGKB-EM MSZ-EF22VGKS-EM

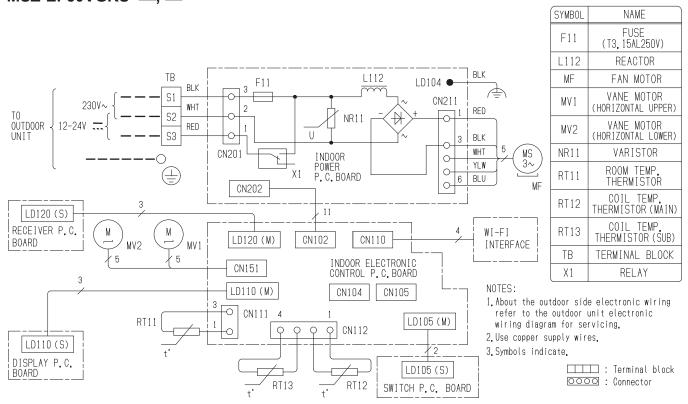
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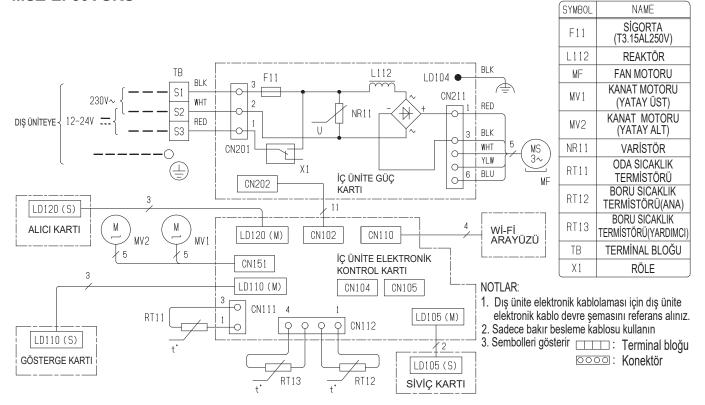
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MSZ-EF50VGKB-EI, ERI MSZ-EF50VGKS-EI, ERI

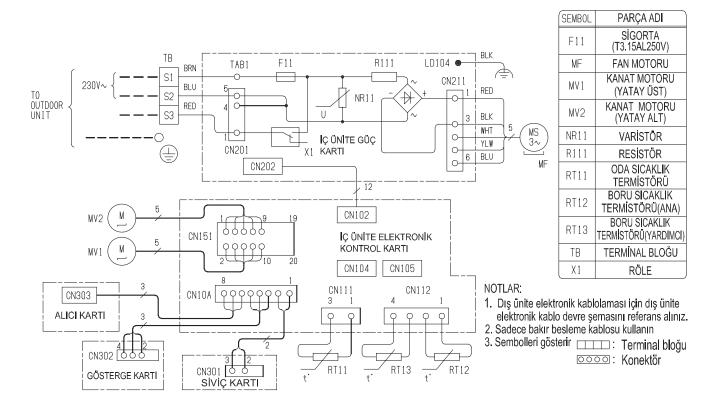


MSZ-EF50VGKB-ETI MSZ-EF50VGKS-ETI

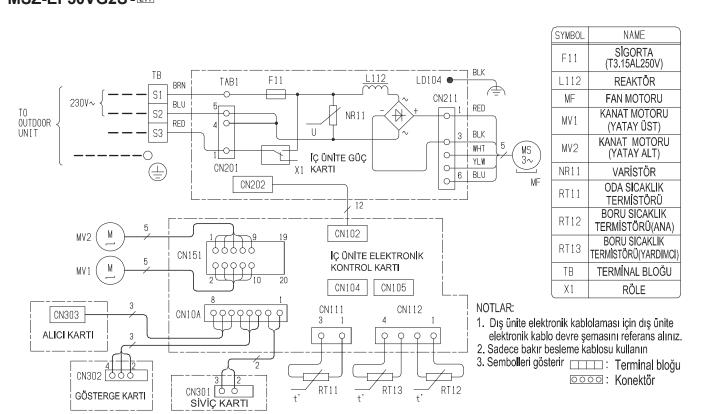


MSZ-EF22VG2W-ETI MSZ-EF22VG2B-ETI MSZ-EF22VG2S-ETI MSZ-EF25VG2W - ETT MSZ-EF25VG2B - ETT MSZ-EF25VG2S - ETT MSZ-EF35VG2W-ETM
MSZ-EF35VG2B-ETM
MSZ-EF35VG2S-ETM

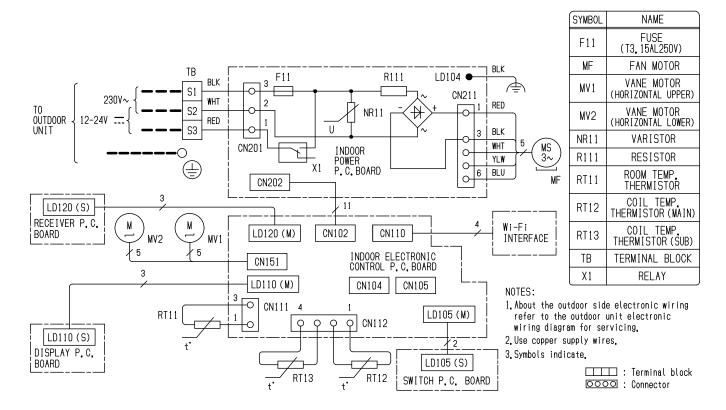
MSZ-EF42VG2W - ETT MSZ-EF42VG2B - ETT MSZ-EF42VG2S - ETT



MSZ-EF50VG2W-ETMSZ-EF50VG2B-ETMSZ-EF50VG2S-ETMSZ-EF50VG2S-ETMSZ-ET



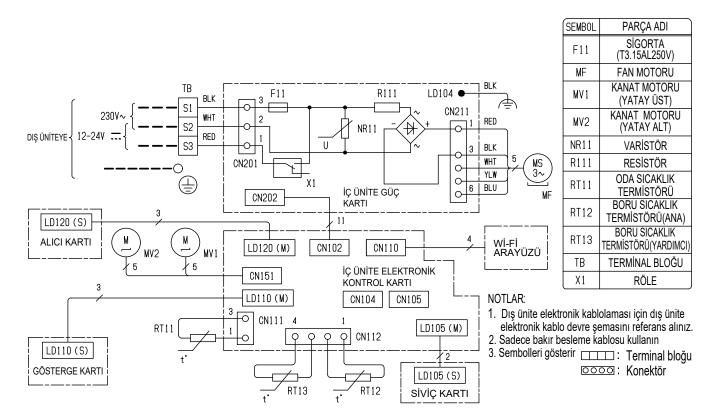
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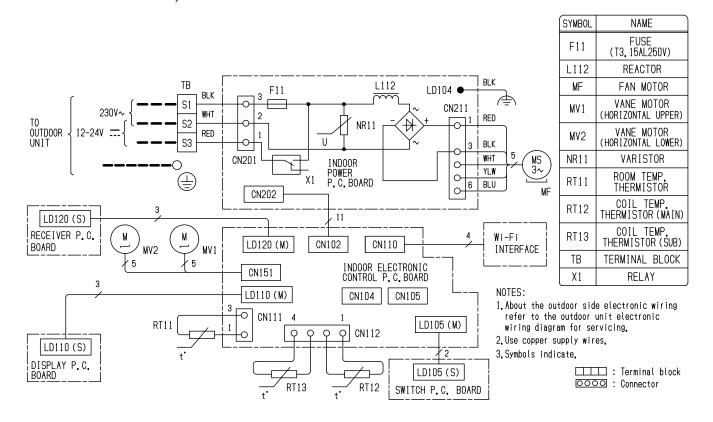
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MSZ-EF22VGKS-ET2

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MSZ-EF25VGKS-ET2

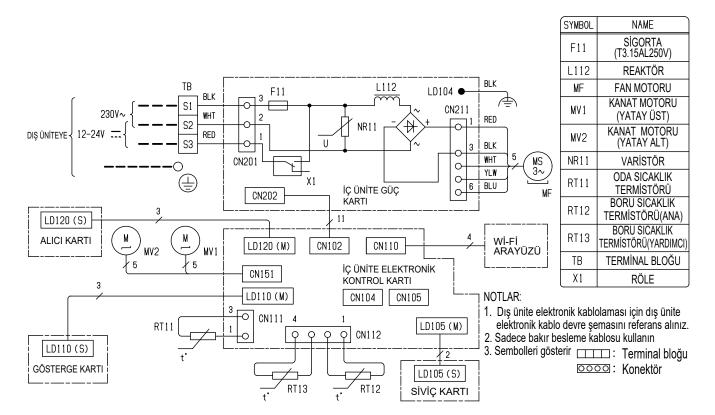
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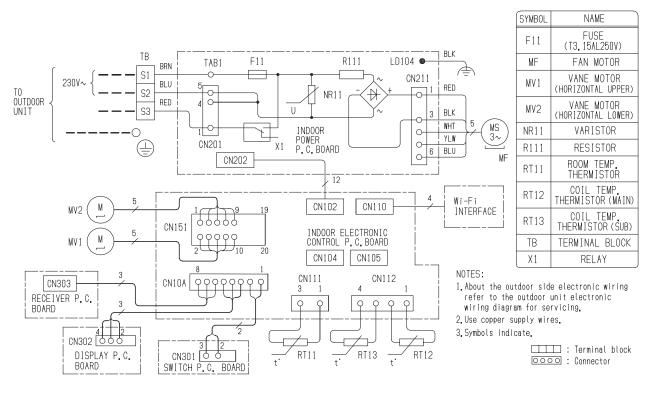


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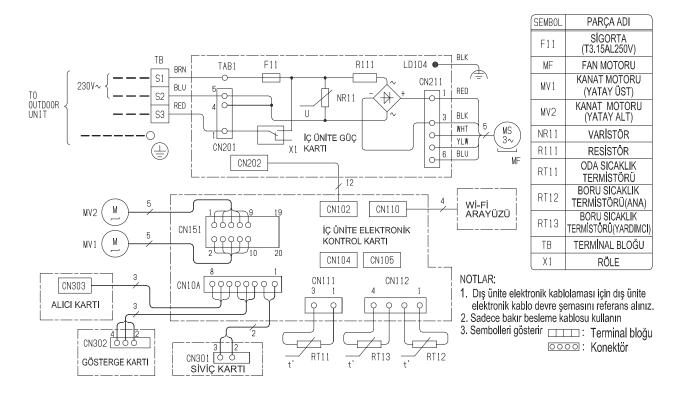


MSZ-EF50VGKB-ET2
MSZ-EF50VGKS-ET2

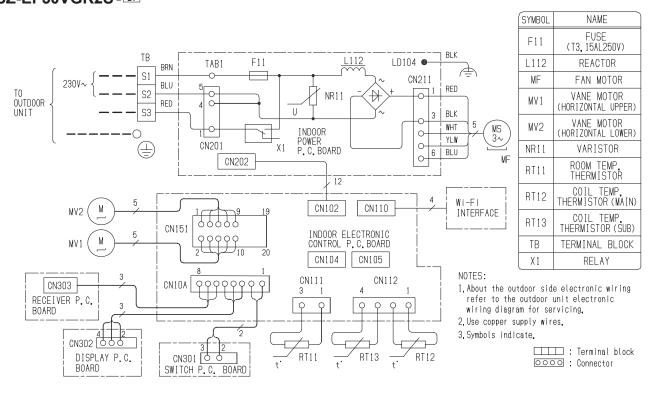




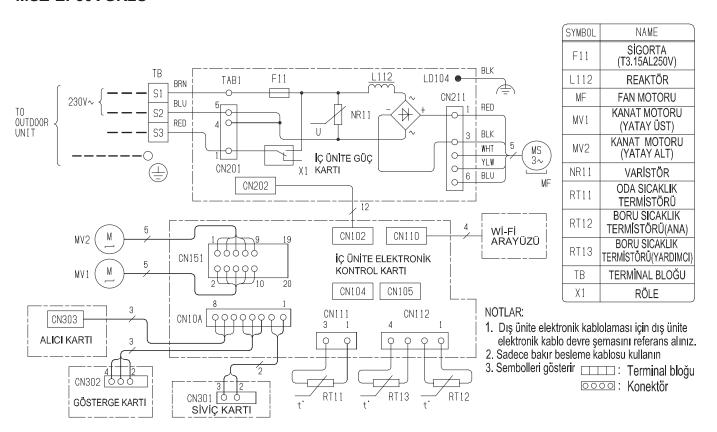
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MSZ-EF50VGK2W-E1
MSZ-EF50VGK2B-E1
MSZ-EF50VGK2S-E1



MSZ-EF50VGK2W-EMMSZ-EF50VGK2B-EMMSZ-EF50VGK2S-EMMSZ-EF50VGK2S-EMMSZ-EMMS

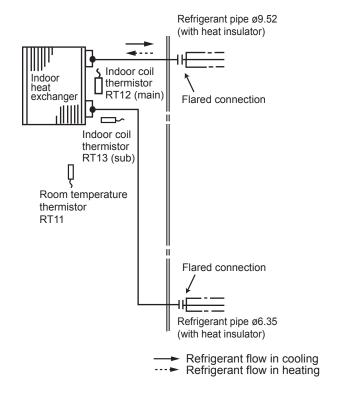


REFRIGERANT SYSTEM DIAGRAM

7

```
MSZ-EF18VGW
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                           MSZ-EF25VGW
                                        MSZ-EF35VGW
                                                      MSZ-EF42VGW
                                                                   MSZ-EF50VGW
             MSZ-EF22VGB
                           MSZ-EF25VGB
MSZ-EF18VGB
                                        MSZ-EF35VGB
                                                      MSZ-EF42VGB
                                                                   MSZ-EF50VGB
                           MSZ-EF25VGS
MSZ-EF18VGS
             MSZ-EF22VGS
                                        MSZ-EF35VGS
                                                      MSZ-EF42VGS
                                                                   MSZ-EF50VGS
MSZ-EF18VGKW MSZ-EF22VGKW MSZ-EF25VGKW MSZ-EF35VGKW MSZ-EF42VGKW MSZ-EF50VGKW
MSZ-EF18VGKB MSZ-EF22VGKB MSZ-EF25VGKB MSZ-EF35VGKB MSZ-EF42VGKB MSZ-EF50VGKB
MSZ-EF18VGKS MSZ-EF22VGKS MSZ-EF25VGKS MSZ-EF35VGKS MSZ-EF42VGKS MSZ-EF50VGKS
MSZ-EF22VG2W MSZ-EF25VG2W MSZ-EF35VG2W MSZ-EF42VG2W MSZ-EF50VG2W
MSZ-EF22VG2B MSZ-EF25VG2B MSZ-EF35VG2B MSZ-EF42VG2B MSZ-EF50VG2B
MSZ-EF22VG2S MSZ-EF25VG2S MSZ-EF35VG2S MSZ-EF42VG2S MSZ-EF50VG2S
MSZ-EF18VGK2W MSZ-EF22VGK2W MSZ-EF25VGK2W MSZ-EF35VGK2W MSZ-EF42VGK2W MSZ-EF50VGK2W
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MSZ-EF18VGK2S MSZ-EF22VGK2S MSZ-EF25VGK2S MSZ-EF35VGK2S MSZ-EF42VGK2S MSZ-EF50VGK2S
```

Unit: mm



SERVICE FUNCTIONS

MSZ-EF18VGW	MSZ-EF22VGW	MSZ-EF25VGW	MSZ-EF35VGW	MSZ-EF42VGW	MSZ-EF50VGW
MSZ-EF18VGB	MSZ-EF22VGB	MSZ-EF25VGB	MSZ-EF35VGB	MSZ-EF42VGB	MSZ-EF50VGB
MSZ-EF18VGS	MSZ-EF22VGS	MSZ-EF25VGS	MSZ-EF35VGS	MSZ-EF42VGS	MSZ-EF50VGS
MSZ-EF18VGKW	MSZ-EF22VGKW	MSZ-EF25VGKW	MSZ-EF35VGKW	MSZ-EF42VGKW	MSZ-EF50VGKW
MSZ-EF18VGKB	MSZ-EF22VGKB	MSZ-EF25VGKB	MSZ-EF35VGKB	MSZ-EF42VGKB	MSZ-EF50VGKB
MSZ-EF18VGKS	MSZ-EF22VGKS	MSZ-EF25VGKS	MSZ-EF35VGKS	MSZ-EF42VGKS	MSZ-EF50VGKS
MSZ-EF22VG2W	MSZ-EF25VG2W	MSZ-EF35VG2W	MSZ-EF42VG2W	MSZ-EF50VG2W	
MSZ-EF22VG2B	MSZ-EF25VG2B	MSZ-EF35VG2B	MSZ-EF42VG2B	MSZ-EF50VG2B	
MSZ-EF22VG2S	MSZ-EF25VG2S	MSZ-EF35VG2S	MSZ-EF42VG2S	MSZ-EF50VG2S	
MSZ-EF18VGK2W	MSZ-EF22VGK2W	MSZ-EF25VGK2W	MSZ-EF35VGK2W	MSZ-EF42VGK2W	MSZ-EF50VGK2W
MSZ-EF18VGK2B	MSZ-EF22VGK2B	MSZ-EF25VGK2B	MSZ-EF35VGK2B	MSZ-EF42VGK2B	MSZ-EF50VGK2B
MSZ-EF18VGK2S	MSZ-EF22VGK2S	MSZ-EF25VGK2S	MSZ-EF35VGK2S	MSZ-EF42VGK2S	MSZ-EF50VGK2S

8-1. TIMER SHORT MODE

8

For service, the following set time can be shortened by bridging JPG and JPS/the timer short mode point* on the electronic control P.C. board. (Refer to 10-7.)

- The set time for the ON/OFF timer can be reduced to 1 second for each minute.
- After the breaker is turned on, the time for starting the compressor, which normally takes 3 minutes, can be reduced to 1 minute. Restarting the compressor, which takes 3 minutes, cannot be reduced.
- * JPG and JPS: MSZ-EF·VG-E1, ET1
 Timer short mode point: MSZ-EF·VG-E2, ET2, ET3, MSZ-EF·VGK, VG2, VGK2

8-2. HOW TO SET REMOTE CONTROLLER EXCLUSIVELY FOR A PARTICULAR INDOOR UNIT

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

To operate the indoor units individually with each remote controller, assign a number to each remote controller according to the number of the indoor unit.

This setting can be set only when all the following conditions are met:

- The remote controller is powered OFF.
- Weekly timer is not set.
- · Weekly timer is not being edited.
- (1) Hold down 1~4 button on the remote controller for 2 seconds to enter the pairing mode.
- (2) Press $1 \sim 4$ button again and assign a number to each remote controller. Each press of $1 \sim 4$ button advances the number in the following order: $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$.
- (3) Press SET button to complete the pairing setting.

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

Once they are set, the indoor unit will only receive the signal from the assigned remote controller afterwards.

8-3. AUTO RESTART FUNCTION

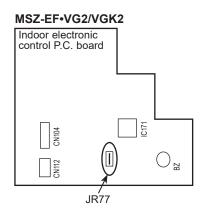
When the indoor unit is controlled with the remote controller, the operation mode, the set temperature, and the fan speed are memorized by the indoor electronic control P.C. board. "AUTO RESTART FUNCTION" automatically starts operation in the same mode just before the shutoff of the main power.

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 disable "AUTO RESTART FUNCTION"

- (1) Turn off the main power for the unit.
- 2 Cut the jumper wire to JR77 on the indoor electronic control P.C. board. (Refer to 10-7.)



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.

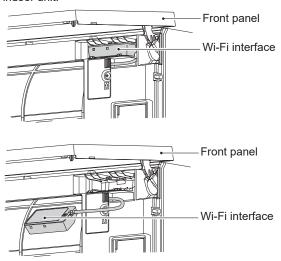
 Therefore, the special counter-measures are required to prevent the main voltage-drop or the rush of the starting current by adding to the system that allows the units to start one by one.

8-4. Wi-Fi INTERFACE SETTING UP (MSZ-EF-VGK/VGK2)

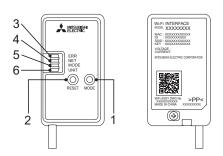
MSZ-EF·VGK

1. Wi-Fi interface introduction

This Wi-Fi interface communicates the status information and controls the commands from the MELCloud by connecting to an indoor unit.



No.	Item	Description	
1	MODE switch	It selects modes.	
2	RESET switch	It resets the system and ALL settings.	
3	ERR LED (Orange)	It shows the network error state.	
4	NET LED (Green)	It shows the network state.	
5	MODE LED (Orange)	It shows the Access point mode state.	
6	UNIT LED (Green)	It shows the indoor unit state.	



- (1) MODE switch
 - \bullet The MODE switch is used for selecting modes in configurations.
- (2) RESET switch
 - Hold down the RESET switch for 2 seconds to reboot the system.
 - Hold down the RESET switch for 14 seconds to initialize the Wi-Fi interface to the factory default.

NOTE:

When the Wi-Fi interface is reset to the factory default, ALL the configuration information will be lost. Take great care in implementing this operation.

- (1) Open the front panel and remove the Wi-Fi interface.
- (2) Set up a connection between the Wi-Fi interface and the router.

 Refer to the SETUP MANUAL and SETUP QUICK

 REFERENCE GUIDE provided with the unit.
 - For SETUP MANUAL, please go to the website below. http://www.mitsubishielectric.com/ldg/ibim/
- (3) Put the Wi-Fi interface back and close the front panel after the setup is completed.
- (4) For MELCloud User Manual, please go to the website below. https://www.melcloud.com/Support

NOTE:

- Ensure that the Router supports the WPA2-AES encryption setting before starting the Wi-Fi interface setup.
- The End user should read and accept the terms and conditions of the Wi-Fi service before using this Wi-Fi interface.
- To complete connection of this Wi-Fi interface to the Wi-Fi service, the Router may be required.
- This Wi-Fi interface will not commence transmission of any operational data from the system until the End user registers and accepts the terms and conditions of the Wi-Fi service.
- This Wi-Fi interface should not be installed and connected to any Mitsubishi Electric system which is to provide application critical cooling or heating.
- At the time of relocation or disposal, reset the Wi-Fi interface to the factory default.

Mitsubishi Electric's Wi-Fi interface is designed for communication to Mitsubishi Electric's MELCloud Wi-Fi service.

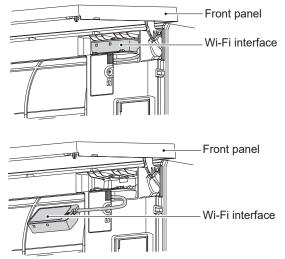
Third party Wi-Fi interfaces cannot be connected to MELCloud. Mitsubishi Electric is not responsible for any (i) under performance of a system or any product; (ii) system or product fault; or (iii) loss or damage to any system or product; which is caused by or arises from connection to and/or use of any third party Wi-Fi interface or any third party Wi-Fi service with Mitsubishi Electric equipment.

For the latest information regarding MELCloud from Mitsubishi Electric Corporation, please visit www.MELCloud.com.

MSZ-EF·VGK2

1. Wi-Fi interface introduction

This Wi-Fi interface, communicates the status information and controls the commands from the MELCloud by connecting to the indoor unit.



2. Setting up

(1) Download the MELCloud application. Please go to the website below. https://www.melcloud.com/?qr=1



2-1. Selecting the setting up mode

Refer to the MELCloud application to set up the connection between the router and Wi-Fi interface.

To enter the setting up mode

- (1) Hold down the Temperature **o** for 5 seconds.
- (2) Select the mode by pressing Temperature **②** and **③** as shown on the table below.
- (3) Point the remote controller toward the indoor unit unit and press the $\bigcirc^{\text{ODFF/ON}}$.

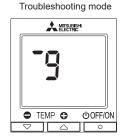
Number	Mode	Operation	
Manager Manag	Pairing mode	[Connecting] A short beep sounds once every 5 seconds for 10 minutes and the operation indicator lamp blinks.	
2 JEHR A CHOEFEAN		[Connection fail] After 10 minutes, five beeps sound and the operation indicator lamp blinks.	
TEMP © OFFION		[Connection success] The operation indicator lamp lights up for 5 seconds and a long beep sounds.	
TEMP © @OFFION	NA	This mode is not supported in this model. If this mode is selected, three short beeps will sound.	
TEMP © COFFICIN	NA	This mode is not supported in this model. If this mode is selected, three short beeps will sound.	
A MERROR* ■ TEMP ⊕ ⊕ OFFICIN □ □ □ □ □	Troubleshooting mode	Refer to "3. When it doesn't connect well"	

3. When it doesn't connect well

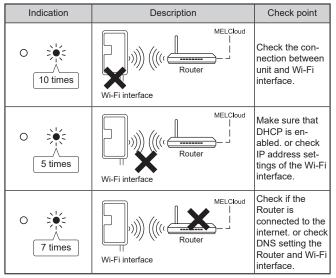
Troubleshooting mode

- Hold down the Temperature for 5 seconds.
- Select " 9" by pressing Temperature

 and
 as shown on the right.
- Point the remote controller toward the indoor unit and press the OOFF/ON



In the troubleshooting mode, you can check what kind of error is occurring by the blinking pattern of the indoor unit operation indicator lamp as follows.



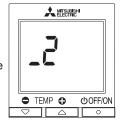
In addition, check the following.

- Make sure that the communication distance is not too far between the Wi-Fi interface and the Router.
- Make sure that the Router uses WPA2-AES encryption.
- Make sure that the number of connected devices to the Router does not exceed the limit.
- Set up the Wi-Fi interface after operating the air conditioner using the wireless remote controller at least once.

If the connection fails even after checking the above, set up the Wi-Fi interface and the router again by the following method.

To reset connection and set up the Wi-Fi interface and the router again

- Hold down the Temperature for 5 seconds.
- Select "_ 2" by pressing Temperature
 and
- Point the remote controller toward the indoor unit and press the OFF/ON .
- The indoor unit beeps 3 times when resetting is complete.



Other check points

Check the following, and pair the Wi-Fi interface and the router according to Selecting a mode.

- Make sure that the communication distance is not too far between the Wi-Fi interface and the router.
- Make sure that the router uses WPA2-AES encryption.
- Make sure that the number of connected devices to the router does not exceed the limit.
- Make sure that DHCP is enabled, or check IP address setting of the Wi-Fi interface.
- Check DNS settings of the router, or check DNS address of the Wi-Fi interface.
- · Check if the router is connected to Internet.
- Set up the Wi-Fi interface after operating the air conditioner using the wirelessremote controller at least once.
 If the connection fails even after checking the above, set up the Wi-Fi interface and the router again by the following
- Hold down the Temperature for 5 seconds.
- Select "_ 2" by pressing Temperature ◆ and ◆ .
- Point the remote controller toward the indoor unit and press the $\frac{\text{OOFF/ON}}{\text{O}}$.
- The indoor unit beeps 3 times when resetting is complete.

[About trademarks]

 "Wi-Fi", "Wi-Fi Protected Setup™", "WPA2™" are trademarks or registered trademarks of the Wi-Fi Alliance.

The Wi-Fi Interface uses Open Source Software.

 The Bluetooth® word mark is registered trademarks owned by Bluetooth SIG,Inc.

For Declaration of Conformity and MELCloud User Manual, please go to the website below.

www.melcloud.com/Support

After accessing the address above, select "United Kingdom" to view support details.

The Wi-Fi interface uses Open Source Software. To view the Open Source software licence(s), please go to the following website.

https://www2.melcloud.com/?oss=1

NOTE:

- Ensure that the Router supports the WPA2-AES encryption setting and 2.4GHz before commencement of the installation of this Wi-Fi interface.
- The end user should read and accept the terms and conditions of the Wi-Fi service before using this Wi-Fi interface.
- To complete connection of this Wi-Fi interface to the Wi-Fi service, the Router may be required.
- This Wi-Fi interface will not commence transmission of any operational data from the system until the end user registers and accepts the terms and conditions of the Wi-Fi service.
- Do not place the Wi-Fi interface where it can be easily accessed by third parties.
- This Wi-Fi interface should not be installed and connected to any Mitsubishi Electric system which is to provide application critical cooling or heating.
- Please write down the information regarding the Wi-Fi interface setting on the last page of this manual, when you set up this Wi-Fi interface.
- At the time of relocation or disposal, reset the Wi-Fi interface to the factory default.
- To fully connect this Wi-Fi interface to the Wi-Fi service, you may need a router and a smartphone compatible with Bluetooth® Low Energy 4.2 or later.

Mitsubishi Electric's Wi-Fi interface is designed for communication to Mitsubishi Electric's MELCloud Wi-Fi service. Mitsubishi Electric is not responsible for any (i) underperformance of a system or any product;

(ii) system or product fault; or (iii) loss or damage to any system or product;

which is caused by or arises from connection to and/or use of any third party Wi-Fi interface or any third party Wi-Fi service with Mitsubishi Electric equipment.

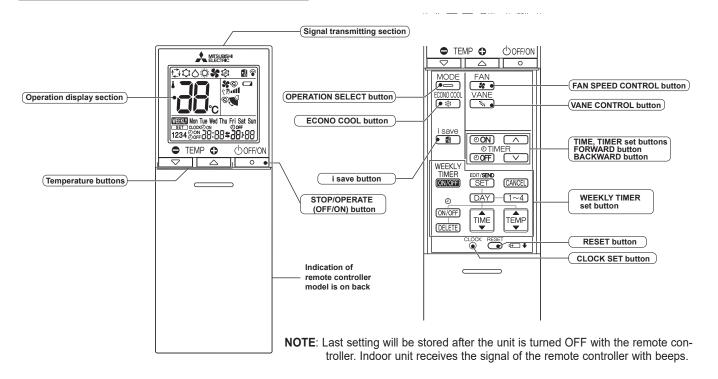
For the latest information regarding MELCloud from Mitsubishi Electric Corporation, please visit www.melcloud.com.

MICROPROCESSOR CONTROL

MSZ-EF18VGW MSZ-EF42VGW MSZ-EF22VGW MSZ-EF25VGW MSZ-EF35VGW MSZ-EF50VGW MSZ-EF18VGB MSZ-EF22VGB MSZ-EF25VGB MSZ-EF35VGB MSZ-EF42VGB MSZ-EF50VGB MSZ-EF18VGS **MSZ-EF22VGS** MSZ-EF25VGS MSZ-EF35VGS MSZ-EF42VGS MSZ-EF50VGS MSZ-EF18VGKW MSZ-EF22VGKW MSZ-EF25VGKW MSZ-EF35VGKW MSZ-EF42VGKW MSZ-EF50VGKW MSZ-EF18VGKB MSZ-EF22VGKB MSZ-EF25VGKB MSZ-EF35VGKB MSZ-EF42VGKB MSZ-EF50VGKB MSZ-EF18VGKS MSZ-EF22VGKS MSZ-EF25VGKS MSZ-EF35VGKS MSZ-EF42VGKS MSZ-EF50VGKS MSZ-EF22VG2W MSZ-EF25VG2W MSZ-EF35VG2W MSZ-EF42VG2W MSZ-EF50VG2W MSZ-EF22VG2B MSZ-EF25VG2B MSZ-EF35VG2B MSZ-EF42VG2B MSZ-EF50VG2B MSZ-EF22VG2S MSZ-EF25VG2S MSZ-EF35VG2S MSZ-EF42VG2S MSZ-EF50VG2S MSZ-EF18VGK2W MSZ-EF22VGK2W MSZ-EF25VGK2W MSZ-EF35VGK2W MSZ-EF42VGK2W MSZ-EF50VGK2W MSZ-EF18VGK2B MSZ-EF22VGK2B MSZ-EF25VGK2B MSZ-EF35VGK2B MSZ-EF42VGK2B MSZ-EF50VGK2B MSZ-EF18VGK2S MSZ-EF22VGK2S MSZ-EF25VGK2S MSZ-EF35VGK2S MSZ-EF42VGK2S MSZ-EF50VGK2S

WIRELESS REMOTE CONTROLLER

9



INDOOR UNIT DISPLAY SECTION

Operation indicator lamp

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	Room temperature
* *	The unit is operating to reach the set temperature	About 2°C or more away from set temperature
. ₩- ○	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature
- ∳Ģ -	Standby mode (Only during multi system operation)	_
- \' \'\-\'	The air filter needs to be cleaned. *1	_



*1 Timing for air filter cleaning
The air filter needs to be cleaned
if the operation indicator lamp
blinks when starting or stopping
the operation. Follow the
OPERATING INSTRUCTIONS to
clean and dry the air filter, and
then attach it. Hold down the FAN
button to stop the operation indicator lamp from blinking.

9-1. COOL (🗘) OPERATION

(1) Press / STOP/OPERATE (OFF/ON) button.

OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.

- (2) Select COOL mode with OPERATION SELECT button.
- (3) Press TEMPERATURE buttons TEMP ⊕ or ⊕ button to select the desired temperature. The setting range is 16 31°C.

1. Coil frost prevention

The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the coil from frosting.

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 is lower, low outside temperature operation starts, and the outdoor fan slows or stops.

3. Indoor fan speed control

When the thermostat turns OFF, the indoor fan operates very Low to reduce power consumption.

When the room temperature rises and the thermostat is ON, the indoor fan operates according to the settings on the remote controller.

9-2. DRY (A) OPERATION

(1) Press STOP/OPERATE (OFF/ON) 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 works the same way as that in COOL mode. (9-1.1.)

2. Low outside temperature operation

Low outside temperature operation works the same way as that in COOL mode. (9-1.2.)

3. Indoor fan speed control

Indoor fan speed control works the same way as that in COOL mode. (9-1.3.)

9-3. FAN () OPERATION

- (1) 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.

9-4. HEAT (*) OPERATION

(1) Press STOP/OPERATE (OFF/ON) 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 TEMP ⊕ or ⊕ button to select the desired temperature. The setting range is 16 31°C.

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

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

When the temperature of indoor heat exchanger becomes too high, the high pressure protection works.

The indoor fan operates following the cold air prevention control. This mode continues until the temperature of indoor heat exchanger falls.

3. Defrosting

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

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

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

9-5. AUTO CHANGE OVER ··· AUTO MODE OPERATION

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

Mode selection

(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 1°C below the set temperature.

HEAT mode changes to COOL mode when about 15 minutes have passed with the room temperature 1°C above the set temperature.

NOTE 1

If 2 or more indoor units are operating in multi system, there might be a case that the indoor unit, which is operating in ☐ (AUTO), cannot change over to the other operating mode (COOL ↔ HEAT) and becomes a state of standby. Refer to **NOTE 2 "FOR MULTI SYSTEM AIR CONDITIONER"**.

NOTE 2

FOR MULTI SYSTEM AIR CONDITIONER

OUTDOOR UNIT: MXZ series

Multi system air conditioner can connect 2 or more indoor units with one outdoor unit.

• When you try to operate 2 or more indoor units with one outdoor unit simultaneously, one for the cooling and the others for heating, the operation mode of the indoor unit that operates first is selected. Other indoor units cannot operate, and operation indicator lamp blinks as shown in the figure below. In this case, please set all the indoor units to the same operation mode.

OPERATION INDICATOR



- 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.

9-6. 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 (approximately 12 V) transmitted from indoor microprocessor.

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

$$\longrightarrow \mathsf{AUTO} @ \longrightarrow \mathsf{1} \overset{\square}{-} \longrightarrow \mathsf{2} \overset{\square}{-} \longrightarrow \mathsf{3} \overset{\square}{-} \longrightarrow \mathsf{4} \overset{\square}{/} \longrightarrow \mathsf{5} \overset{\square}{/} \longrightarrow \mathsf{SWING} \overset{\mathbb{Z}_{0}^{\square}}{\longrightarrow} \longrightarrow \mathsf{3} \overset{\mathbb{Z}_{0}^{\square}}{\longrightarrow} \longrightarrow \mathsf{3} \overset{\mathbb{Z}_{0}^{\square}}{\longrightarrow} \longrightarrow \mathsf{5} \overset{\mathbb{Z}_{0}^{\square}}{\longrightarrow} \longrightarrow \mathsf{5} \overset{\mathbb{Z}_{0}^{\square}}{\longrightarrow} \longrightarrow \mathsf{5} \overset{\mathbb{Z}_{0}^{\square}}{\longrightarrow} \longrightarrow \mathsf{5} \overset{\mathbb{Z}_{0}^{\square}}{\longrightarrow} \longrightarrow \mathsf{5} \overset{\mathbb{Z}_{0}^{\square}}{\longrightarrow} \longrightarrow \mathsf{5} \overset{\mathbb{Z}_{0}^{\square}}{\longrightarrow} 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(3) Positioning

To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the selected 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 standby mode (only during multi system operation) starts or finishes.
- (4) VANE AUTO (@) mode

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

In COOL and DRY operation

Vane angle is fixed to Horizontal position.



In HEAT operation

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 STOP/OPERATE (OFF/ON) 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 4 or 5 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 vanes swing vertically.

When COOL, DRY or FAN mode is selected, only the upper vane swings.

(8) Cold air prevention in HEAT operation

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) ECONO COOL (意) operation (ECONOmical operation)

When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher by micro-processor. However, the temperature on the LCD screen on the remote controller is not changed.

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, the air conditioner can keep comfort. As a result, energy can be saved.

To cancel this operation, select a different mode or press one of the following buttons in ECONO COOL operation: ECONO COOL, or VANE CONTROL button.

9-7. TIMER OPERATION

1. How to set the time

(1) 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

- (a) Press the CLOCK set button.
- (b) Press the TIME SET buttons (and) to set the current time.
 - Each time FORWARD button () is pressed, the set time increases by 1 minute, and each time BACKWARD button () is pressed, the set time decreases by 1 minute.
 - Pressing those buttons longer, the set time increases/decreases by 10 minutes.
- (c) Press the CLOCK set button.
- (2) Press STOP/OPERATE (OFF/ON) button to start the air conditioner.
- (3) Set the time of timer.

ON timer setting

- (a) Press ON TIMER button((OON)) during operation.
- (b) Set the time of the timer using TIME SET buttons (and). *

OFF timer setting

- (a) Press OFF TIMER button (OOFF) during operation.
- (b) 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. To release the timer

To release ON timer, press ON TIMER button (OON).

To release OFF timer, press OFF TIMER button(@OFF).

TIMER is cancelled and the display of set time disappears.

PROGRAM TIMER

- OFF timer and ON timer can be used in combination. The set time that is reached first will operate first.
- " ← " and " → " display shows the order of OFF timer and ON timer operation.

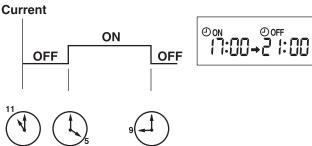
The unit turns off at 11:00 PM, and on at 6:00 AM.

(Example 1) The current time is 8:00 PM.

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

The unit turns on at 5:00 PM, and off at 9:00 PM.

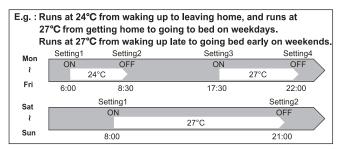
ON OFF S:00 CON S:00



NOTE: If the main power is turned OFF or a power failure occurs while ON/OFF 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.

9-8. WEEKLY TIMER OPERATION

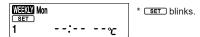
- A maximum of 4 ON or OFF timers can be set for individual days of the week.
- · A maximum of 28 ON or OFF timers can be set for a week.



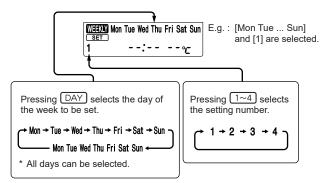
NOTE:

- The simple ON/OFF timer setting is available while the weekly timer is on. In this case, the ON/OFF timer has priority over the weekly timer; the weekly timer operation will start again after the simple ON/OFF timer is complete.
- When the weekly timer is set, temperature cannot be set to 10°C.
- The weekly timer operation and i-save operation cannot be used together.

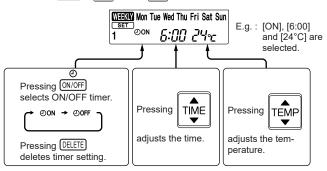
- 1. How to set the weekly timer
 * Make sure that the current time and day are set correctly.
- (1) Press SET button to enter the weekly timer setting mode.



(2) Press DAY and 1~4 buttons to select setting day and number.



(3) Press ON/OFF , and buttons to set ON/OFF, time, and temperature. TIME



* Hold down the button to change the time quickly.

Press DAY and 1~4 buttons to continue setting the timer for other days and/or numbers.

(4) Press SET button to complete and transmit the weekly timer setting.

MEEKLY Mon Tue Wed Thu Fri Sat Sun

SET which was blinking goes out, and the current time will be displayed.

NOTE:

- Press SET button to transmit the setting information of weekly timer to the indoor unit. Point the remote controller toward the indoor unit for 3 seconds.
- When setting the timer for more than one day of the week or one number, setting. Press setting. Press SET button once after all the settings are complete. All the weekly timer settings will be saved.
- Press SET button to enter the weekly timer setting mode, and press and hold DELETE button for 5 seconds to erase all weekly timer settings. Point the remote controller toward the indoor unit.
- (5) Press TIMER button to turn the weekly timer ON. (THE IN lights.)
 - •When the weekly timer is ON, the day of the week whose timer setting is complete, will light.

Press TIMER button again to turn the weekly timer OFF. (THEN goes out.)

NOTE

The saved settings will not be cleared when the weekly timer is turned OFF.

2. Checking weekly timer setting

(1) Press SET button to enter the weekly timer setting mode.

*ISET blinks.

- (2) Press DAY or 1~4 buttons to view the setting of the particular day or number.
- (3) Press CANCEL button to exit the weekly timer setting.

NOTE:

When all days of the week are selected to view the settings and a different setting is included among them, --:-- τ will be displayed.

9-9. i-save (2) OPERATION

- 1. How to set i-save operation
 - (1) Press STOP/OPERATE (OFF/ON) button.
 - (2) Select COOL, HEAT or ECONO COOL mode.
 - (3) Press i-save button.
 - (4) Set the temperature, fan speed, and airflow direction for i-save operation.

NOTE:

- i-save operation cannot be selected during DRY or AUTO mode operation.
- The setting range of HEAT mode i-save operation is 10°C and 16 31°C.
- 2 groups of setting can be saved. (One for COOL/ECONO COOL, one for HEAT)
- i-save operation and the weekly timer operation cannot be used together.

2. How to cancel operation

- Press i-save button again.
- i-save operation can also be cancelled by pressing OPERATION SELECT button to change the operation mode. The preferred setting can be saved for the next time with a single press of i-save button.

9-10. EMERGENCY/TEST OPERATION

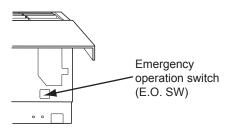
In the case of test run operation or the emergency operation, use the emergency operation switch on the right side of the indoor unit. The emergency operation is available when the remote controller is missing or has failed, or the batteries in the remote controller are running down. The unit will start and OPERATION INDICATOR lamp will light up.

The first 30 minutes of operation is the test run operation. This operation is for servicing. The indoor fan runs at High speed and the temperature control does not work.

After 30 minutes of test run operation, the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 24°C. The fan speed shifts to Med. The coil frost prevention works even in the test run or the emergency operation. In the test run or the emergency operation, the horizontal vane operates in VANE AUTO (②) mode.

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

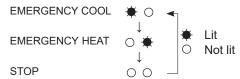
NOTE: Do not press the emergency operation switch during normal operation.



Operation mode	COOL/HEAT
Set temperature	24°C
Fan speed	Med.
Horizontal vane	Auto

The operation mode is indicated by the Operation Indicator lamp as follows

Operation Indicator lamp



9-11. 3-MINUTE TIME DELAY OPERATION

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

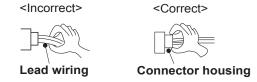
10

TROUBLESHOOTING

MSZ-EF18VGW	MSZ-EF22VGW	MSZ-EF25VGW	MSZ-EF35VGW	MSZ-EF42VGW	MSZ-EF50VGW
MSZ-EF18VGB	MSZ-EF22VGB	MSZ-EF25VGB	MSZ-EF35VGB	MSZ-EF42VGB	MSZ-EF50VGB
MSZ-EF18VGS	MSZ-EF22VGS	MSZ-EF25VGS	MSZ-EF35VGS	MSZ-EF42VGS	MSZ-EF50VGS
MSZ-EF18VGKW	MSZ-EF22VGKW	MSZ-EF25VGKW	MSZ-EF35VGKW	MSZ-EF42VGKW	MSZ-EF50VGKW
MSZ-EF18VGKB	MSZ-EF22VGKB	MSZ-EF25VGKB	MSZ-EF35VGKB	MSZ-EF42VGKB	MSZ-EF50VGKB
MSZ-EF18VGKS	MSZ-EF22VGKS	MSZ-EF25VGKS	MSZ-EF35VGKS	MSZ-EF42VGKS	MSZ-EF50VGKS
MSZ-EF22VG2W	MSZ-EF25VG2W	MSZ-EF35VG2W	MSZ-EF42VG2W	MSZ-EF50VG2W	
MSZ-EF22VG2B	MSZ-EF25VG2B	MSZ-EF35VG2B	MSZ-EF42VG2B	MSZ-EF50VG2B	
MSZ-EF22VG2S	MSZ-EF25VG2S	MSZ-EF35VG2S	MSZ-EF42VG2S	MSZ-EF50VG2S	
MSZ-EF18VGK2W	MSZ-EF22VGK2W	MSZ-EF25VGK2W	MSZ-EF35VGK2W	MSZ-EF42VGK2W	MSZ-EF50VGK2W
MSZ-EF18VGK2B	MSZ-EF22VGK2B	MSZ-EF25VGK2B	MSZ-EF35VGK2B	MSZ-EF42VGK2B	MSZ-EF50VGK2B
MSZ-EF18VGK2S	MSZ-EF22VGK2S	MSZ-EF25VGK2S	MSZ-EF35VGK2S	MSZ-EF42VGK2S	MSZ-EF50VGK2S

10-1. 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 main 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 P.C. board.
 - 3) When removing the 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 connector housing. DO NOT pull the lead wires.



3. Troubleshooting procedure

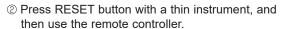
- Check if the OPERATION INDICATOR lamp on the indoor unit is blinking ON and OFF to indicate an abnormality.
 To make sure, check how many times the OPERATION INDICATOR lamp is blinking ON and OFF before starting service work.
- 2) Before servicing, check that the connector and terminal are connected 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 10-2, 10-3 and 10-4.

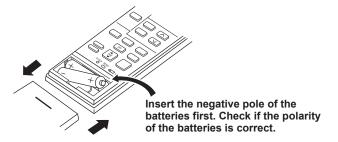
4. How to replace batteries

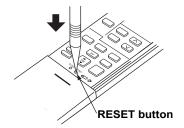
Weak batteries may cause the remote controller malfunction.

In this case, replace the batteries to operate the remote controller normally.

① 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.

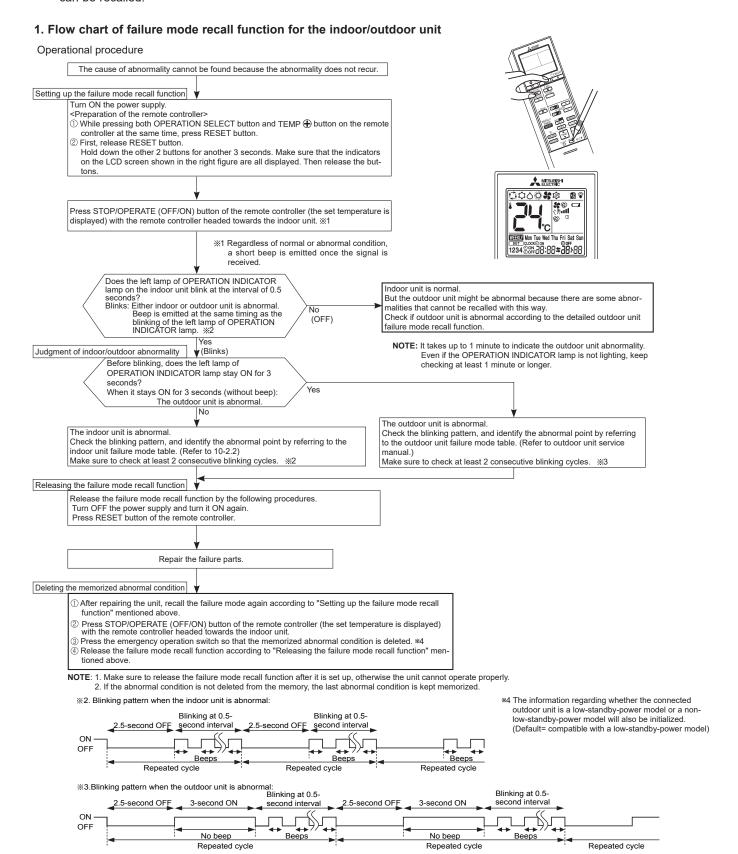
- This remote controller has a circuit to automatically reset the microprocessor when batteries are replaced.
 This function is equipped to prevent the microprocessor from malfunctioning due to the voltage drop caused by the battery replacement.
- 3. Do not use the leaking batteries.

10-2. 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 (10-4.) disappears, the memorized failure details can be recalled.



2. Table of indoor unit failure mode recall function

The left lamp of OPERATION INDI- CATOR lamp	Abnormal point (Failure mode)	Condition	Remedy
Not lit	Normal	_	_
1-time blink 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 (10-7.).
2-time blink 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 thermistor, the sub indoor coil thermistor (10-7.).
3-time blink 2.5-second OFF	Serial signal	The serial signal from outdoor unit is not received for a maximum of 6 minutes.	Refer to 10-6. [©] "How to check miswiring and serial signal error".
11-time blink 2.5-second OFF	Indoor fan motor	The rotational frequency feedback signal is not emitted for the 12 seconds after the indoor fan motor is operated.	Refer to 10-6. (a) "Check of indoor fan motor".
12-time blink 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 (10-4.).

10-3. INSTRUCTION OF TROUBLESHOOTING

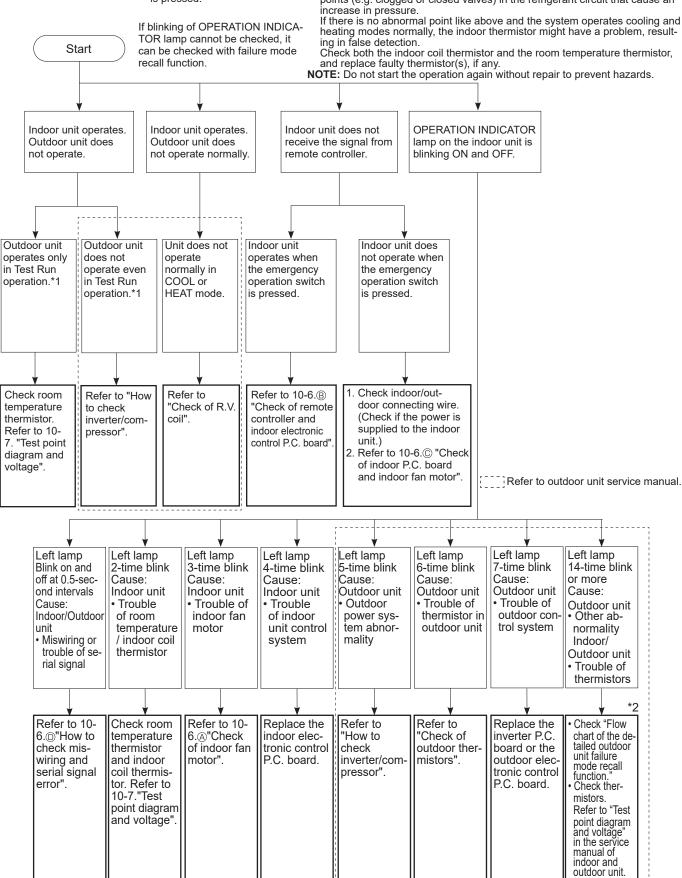
1. Check of the unit

*1 "Test Run operation" means the operation within 30 minutes after the emergency operation switch is pressed.

*2 There is a possibility that diesel explosion may occur due to the air mixed in First, ensure that there are no leakage points on the valves, flare connec-

tions, etc. that allow the air to flow into the refrigerant circuit, or no blockage points (e.g. clogged or closed valves) in the refrigerant circuit that cause an increase in pressure.

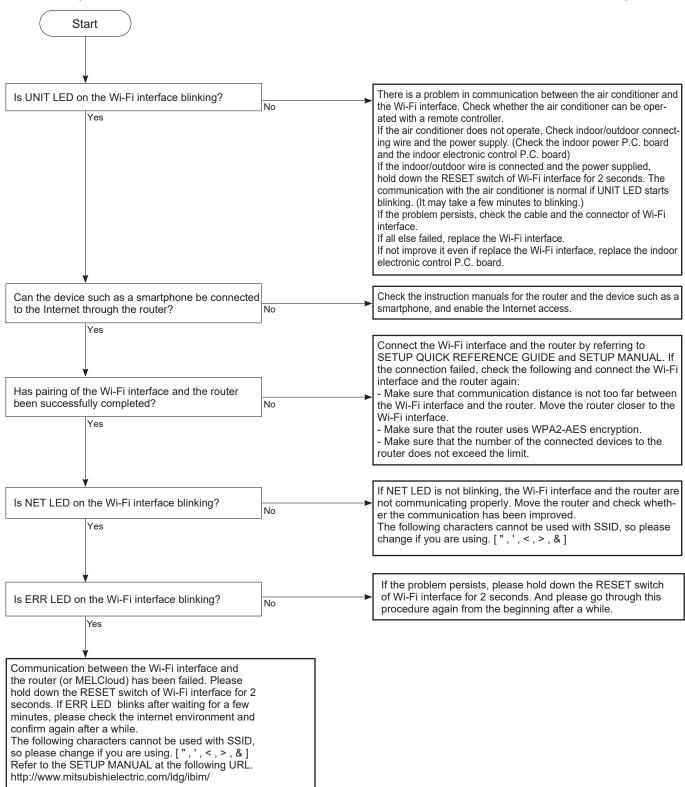
heating modes normally, the indoor thermistor might have a problem, resulting in false detection.



2. Check of Wi-Fi interface (MSZ-EF·VGK/VGK2)

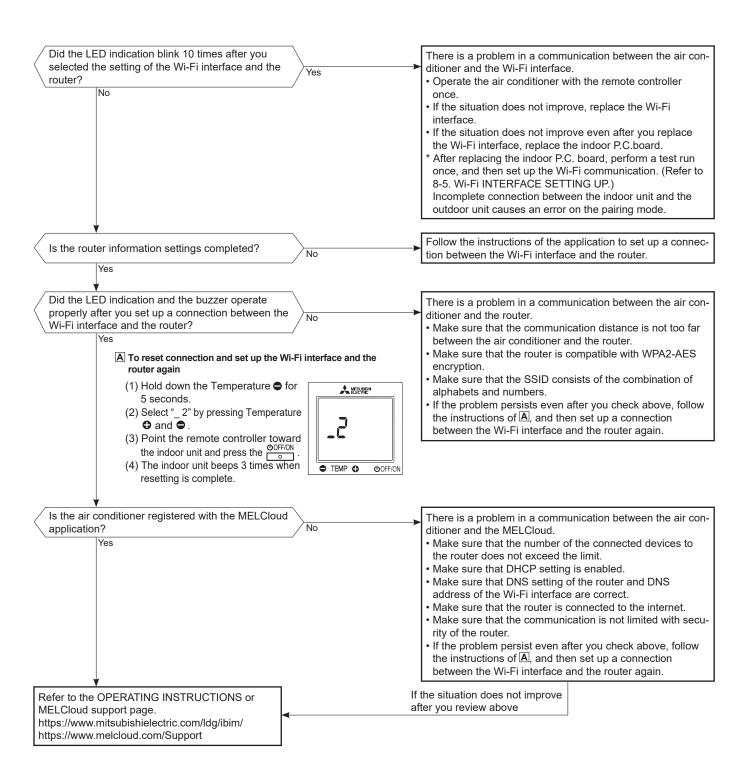
MSZ-EF·VGK

Follow the procedure below if the air conditioner cannot be monitored or controlled with a device such as a smartphone.



MSZ-EF·VGK2

Follow the procedure below if the air conditioner cannot be monitored or controlled with a device such as a smartphone.



10-4. 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 blinks.

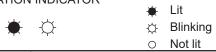
OPERATION INDICATOR Lit 🐞 Blinking \bigcirc Not lit

No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Remedy
1	Miswiring or serial signal	Left lamp blinks. 0.5-second ON		The serial signal from the outdoor unit is not received for 6 minutes. The indoor unit is connected to a low-stand-by-power model after once connected to a non-low-standby-power model.	Refer to 10-6. "How to check miswiring and serial signal error". Refer to NOTE.
2	Indoor coil thermistor Room tem- perature thermistor	Left lamp blinks. 2-time blink ★○★○○○○★○★○○ 2.5-second OFF		The indoor coil or the room temperature thermistor is short or open circuit.	Refer to the characteristics of indoor coil thermistor, and the room temperature thermistor (10-7.).
3	Indoor fan motor	Left lamp blinks. 3-time blink		The rotational frequency feedback signal is not emitted during the indoor fan operation.	Refer to 10-6. "Check of indoor fan motor".
4	Indoor con- trol system	Left lamp blinks. 4-time blink		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.
5	Outdoor power sys- tem	Left lamp blinks. 5-time blink	Indoor unit and outdoor unit do not operate.	It consecutively occurs 3 times that the compressor 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 blinks. 6-time blink		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 blinks. 7-time blink ★○★○★○★○★○★○★○○○○★ 2.5-second OFF		It cannot properly read data in the nonvolatile memory of the inverter P.C. board or the outdoor electronic control P.C. board.	Replace the inverter P.C. board or the outdoor electronic control P.C. board. Refer to outdoor unit service manual.
8	Other abnormality *1	Left lamp blinks. 14-time blink or more ONOR ONOR ONOR ONOR ONOR ONOR ONOR ONO		An abnormality other than the above is detected. An abnormality of the indoor thermistors, the defrost thermistor or ambient temperature thermistor is detected.	Check the stop valve. Check the 4-way valve. Check the abnormality in detail using the failure mode recall function for outdoor unit. Refer to TEST POINT DIA-GRAM AND VOLTAGE" on the service manual of indoor and outdoor unit for the characteristics of the thermistors. (Do not start the operation again without repair to prevent hazards.)
9	Outdoor control sys- tem	Left lamp lights up. ✓	Outdoor unit does not operate.	It cannot properly read data in the nonvolatile memory of the inverter P.C. board or the outdoor 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.

NOTE: The indoor unit may have been connected to a non-low-standby-power model outdoor unit. To use a low-standby-power model, clear the error history by referring to "Deleting the memorized abnormal condition" described in 10-2.1. When the error history is being cleared, the connection information also will be initialized. The indoor unit will be compatible with a low-standby-power model after initialization. If the operation indicator lamp continues to blink as shown in No.1 after the procedure, refer to 10-6. © "How to check miswiring and serial error". *1. Refer to *2 on 10-3. "INSTRUCTION OF TROUBLESHOOTING".

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OPERATION INDICATOR



No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Remedy
	MXZ type Operation mode setting	2.5-second OFF	indoor unit does	HEAT at the same time, the operation mode	Unify the operation mode. Refer to outdoor unit service manual.

10-5. TROUBLE CRITERION OF MAIN PARTS

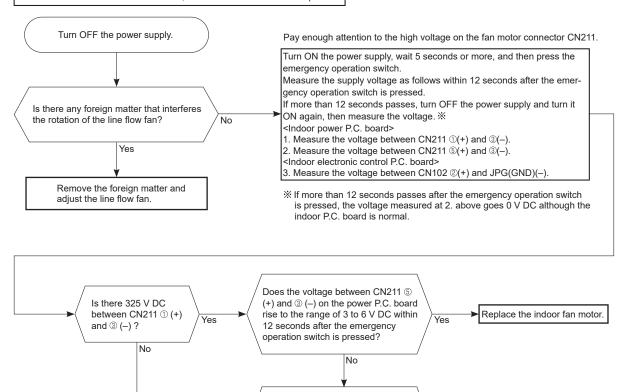
Part name	Check method and criterion			Figure
Room temperature	Measure the resistance with a multimeter.			
thermistor (RT11)				
Indoor coil thermistor	Refer to 10-7. "Test point diagrar		onic control	
(RT12, RT13)	P.C. board", for the chart of therr	nistor.		
Indoor fan motor (MF)	Check 10-6. (a) "Check of indoor fan motor".			
Measure the resistance between the terminals with a multimeter. (Temperature: 10 - 30°C)				BLK BLK
Vane motor (MV)	Color of the lead wire	Normal]	RED TONYON
	RED - BLK	232 - 268 Ω]	BLK BLK
		<u> </u>		

10-6. TROUBLESHOOTING FLOW

(A) Check of indoor fan motor

Replace the indoor power

The indoor fan motor error has occurred, and the indoor fan does not operate.



Does the voltage between CN102 ② (+)(VG/VGK) CN102 ⑦ (+) (VG2/VGK2) and JPG (GND)(–)/

CN102 ®(-)* on the indoor electronic

control P.C. board fall to 2 V or less within 12 seconds after the emergency operation switch is pressed?

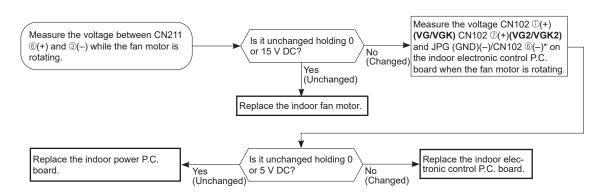
No

Replace the indoor electronic

control P.C. board.

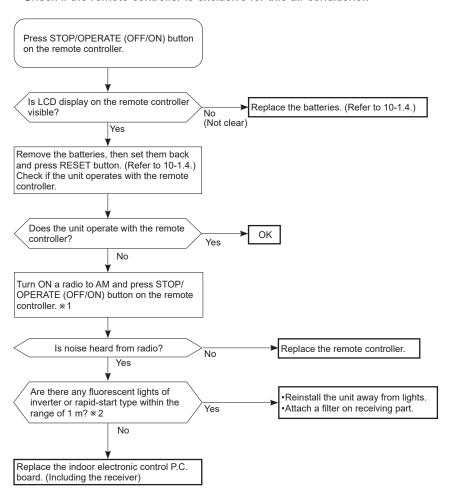
The indoor fan motor error has occurred, and the indoor fan repeats "12-second ON and 30-second OFF" 3 times, and then stops.

Yes



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

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



- * 1 Look at the image of the signal transmitting section of the remote controller through the monitor of a digital camera or a camera phone. It is normal if the LED of the signal transmitting section lights up when the STOP/OPERATE (OFF/ON) button on the remote controller is pressed. However, it may be difficult to see the illuminated LED of the signal transmitting section with a smartphone camera.
- * 2 If the inverter fluorescent light is turned on when the room is cool, the unit may have difficulty receiving the signal from the remote controller or may not be able to operate with it; if the inverter fluorescent light is turned on when the room is warm, the unit may be able to operate with the remote controller.

© Check of indoor P.C. board and indoor fan motor MSZ-EF·VG - E1, ET1 Turn OFF the power supply. Remove indoor fan motor connector CN211 from indoor power P.C. board and vane motor connector CN151 from the indoor Measure the resistance of indoor fan Short circuit: Replace the indoor fan motor. electronic control P.C. board and turn ON Refer to 10-5. the power supply. Does the unit operate with the remote Short circuit: controller? Measure the resistance of the vane Does OPERATION INDICATOR lamp light Replace the vane motor and the indoor Yes Refer to 10-5. electronic control P.C. board. up by pressing the emergency operation switch? Replace the varistor (NR11) and fuse (F11). *3 Yes Is the varistor (NR11) burnt and the fuse (F11) Turn OFF the power supply. Check both "parts side" and "pattern side" of the indoor power 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 black. ※2. Connect "+" of the multimeter to fan motor connector's Measure the resistance between ① lead wire, and "-" to ③ lead wire, otherwise the CN211 ①(+) and ③(-) of indoor fan motor connector. ※1, ※2 resistance cannot be measured properly. ※3. Please replace the fuse after removing the indoor power P.C. board from the electrical box. Replace the fuse (F11) and the indoor fan motor. *3 Is the resistance $1M\Omega$ or more? No Yes Replace the fuse (F11). *3 Measure the resistance of reactor Replace the indoor Is the resistance of power P.C. board and the indoor fan motor. (L111) on the indoor power P.C. reactor (L111) approximately 2.2 Ω? board. Yes Indoor power P.C. board Is there approximately 5 V DC between 5 V (+) and JPG (GND) (-) of the indoor electronic control P.C. board? Fuse (F11) Varistor (NR11) Replace the indoor fan motor. Is there approximately 9 V to 13 V DC between 12 V (+) and JPG (GND) (-) of the indoor electronic control P.C. -L111 $\overline{\mathbf{L}}$ board? No CN211 Indoor electronic control P.C. board Are connector CN102 on the indoor electronic control P.C. Connect the connector or repair discon-CN102 board or lead wires discon-Yes nected? Nο

Replace the indoor electronic control P.C. board.

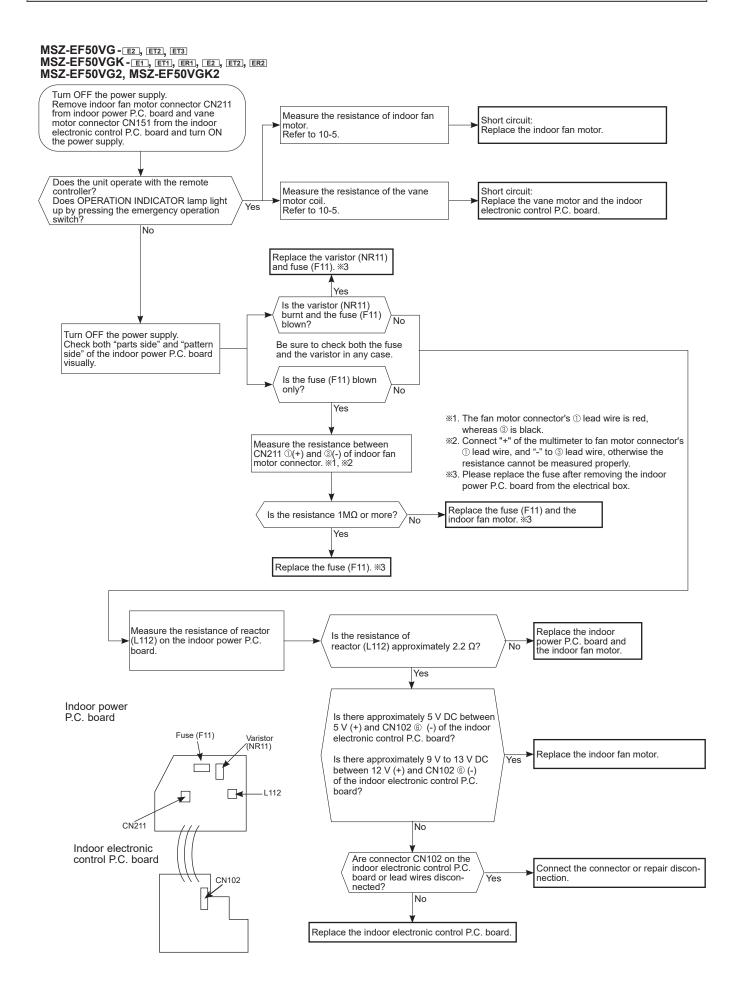
MSZ-EF18/22/25/35/42VG - E2 MSZ-EF22/25/35/42VG - ET2, ET3 MSZ-EF18/22/25/35/42VGK - E1, E2 MSZ-EF22/25/35/42VGK-ET1, ER1, ET2, ER2 MSZ-EF22/25/35/42VG2, MSZ-EF18/22/25/35/42VGK2 Turn OFF the power supply.
Remove indoor fan motor connector CN211
from indoor power P.C. board and vane
motor connector CN151 from the indoor
electronic control P.C. board and turn ON Measure the resistance of indoor fan Short circuit: motor Replace the indoor fan motor. Refer to 10-5. the power supply. Does the unit operate with the remote controller?

Does OPERATION INDICATOR lamp light Measure the resistance of the vane Short circuit: Replace the vane motor and the indoor electronic control P.C. board. Yes Refer to 10-5. up by pressing the emergency operation No Replace the varistor (NR11) and fuse (F11). **3 Is the varistor (NR11) burnt and the fuse (F11) Turn OFF the power supply. Check both "parts side" and "pattern Be sure to check both the fuse and the varistor in any case. side" of the indoor power P.C. board visually. Is the fuse (F11) blown only? No Yes *1. The fan motor connector's ① lead wire is red, whereas ③ is black. ※2. Connect "+" of the multimeter to fan motor connector's Measure the resistance between CN211 ①(+) and ③(-) of indoor fan motor connector. ※1, ※2 ① lead wire, and "-" to ③ lead wire, otherwise the resistance cannot be measured properly. *3. Please replace the fuse after removing the indoor power P.C. board from the electrical box. Replace the fuse (F11) and the indoor fan motor. *3 Is the resistance $1M\Omega$ or more? Yes Replace the fuse (F11). *3 Measure the resistance of resistor Replace the indoor Is the resistance of (R111) on the indoor power P.C. power P.C. board and resistor (R111) approximately 3.9 Ω? No the indoor fan motor. board Yes Indoor power P.C. board Is there approximately 5 V DC between Fuse (F11) Varistor 5 V (+) and CN102 ®(-) of the indoor (NR11) electronic control P.C. board? Replace the indoor fan motor. Yes Is there approximately 9 V to 13 V DC between 12 V (+) and CN102 ® (-) of the indoor electronic control P.C. -R111 board? CN211 No Indoor electronic control P.C. board Are connector CN102 on the indoor electronic control P.C. CN102 Connect the connector or repair disconboard or lead wires discon-Yes nection.

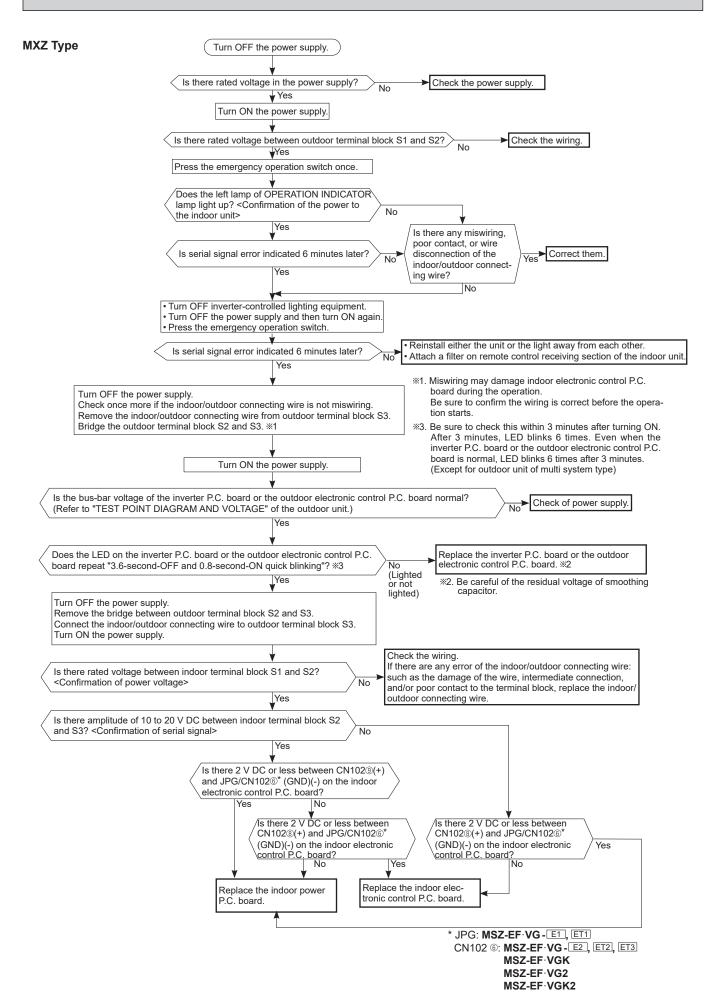
nected?

No

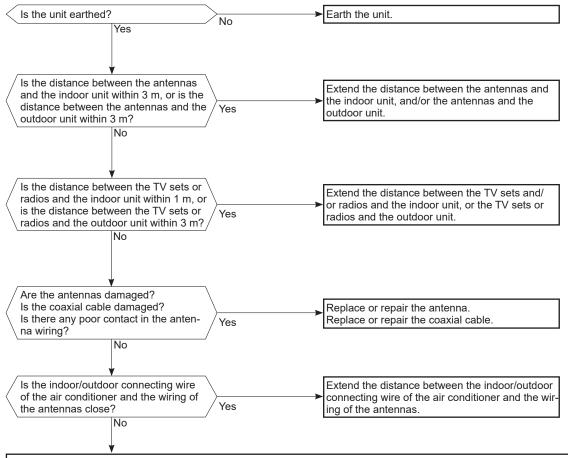
Replace the indoor electronic control P.C. board.



D How to check miswiring and serial signal error **MUZ-EF Type** Turn the main power supply OFF Is there rated voltage in the power supply? Check the power supply. Yes Check for incorrect indoor-outdoor connecting wiring. Was the indoor unit ever connected to the Multi (MXZ) series and operated Yes Nο (turned on)? The connection information to the Multi series is stored in the indoor unit. Refer to "Deleting the memorized abnormal condition" described in 10-2.1 to clear the error history. When the error history is being cleared, the connection information also will be initialized. The indoor unit will be compatible with a low-standby-power model after initialization. • Turn OFF inverter-controlled lighting equipment. OK • Turn OFF the power supply and then turn ON again. Press the emergency operation switch. Is serial signal Reinstall either the unit or the light away from each other. error indicated 6 · Attach a filter on remote control receiving section of the indoor unit. minutes later? Yes Turn the main power supply ON. Check for miswiring, broken wires, and loose wire connection between the main power Is there rated voltage between outdoor terminal block S1 and S2? supply and outdoor terminal block S1 and **y**Yes between the main power supply and outdoor terminal block S2 Wait for 2 or more minutes after the main power supply is turned on. Touch S2 and S3 with multimeter probes and start the emergency operation. When the emergency operation starts, does the rated voltage occur for 2 seconds between indoor terminal block S2 and S3? No Yes Turn the main power supply OFF. Does the indoor OPERATION INDICATOR lamp (left) blink No Does the outdoor LED continuously 6 minutes after Turn the main power supply light up? No the emergency operation starts? Yes Yes Confirm that the thermostat is OFF and wiring is Wait for 2 or more minutes after the main power supply is turned ON. not loose. Touch CN102 🖲 and JPG/CN102 🌀 with multimeter probes and start the Does the outdoor LED blink 6 Replace the outdoor inverter emergency operation. times? P.C. board. %1 Yes Does DC (6V or more) occur Replace the outdoor inverter between indoor terminal block During the emergency operation, does DC (2V or more [MSZ-EF·VG-E1, ET1]/2V or P.C. board. *1 S2 and S3? less [MSZ-EF·VG - E2], ET2, ET3, MSZ-EF·VGK, VG2, VGK2]) occur for Turn the main power supply Electric charge may remain No 2 seconds between CN102 5 and JPG/ immediately after the main power CN102 ®* on the indoor electronic control Replace the indoor power P.C supply is turned OFF P.C. board? board. Perform the procedure after 3 minutes. Turn the main power supply ON. Start the emergency operation. Does the indoor OPERATION Replace the Replace the indoor power P.C. indoor electronic INDICATOR lamp (left) blink control P.C. board. board continuously 6 minutes after Repair completed. the emergency operation * JPG: MSZ-EF·VG - E1, ET1 CN102 6: MSZ-EF VG - E2, ET2, ET3 Does DC (20V or more) occur MSZ-EF-VGK Replace the outdoor inverter P.C. board. %1 between indoor terminal block S2 and S3 ? MSZ-EF·VG2 MSZ-EF-VGK2 Replace the indoor electronic control P.C. board.



E Electromagnetic noise enters into TV sets or radios



Even if all of the above conditions are fulfilled, the electromagnetic noise may enter, depending on the electric field strength or the installation condition (combination of specific conditions such as antennas or wiring).

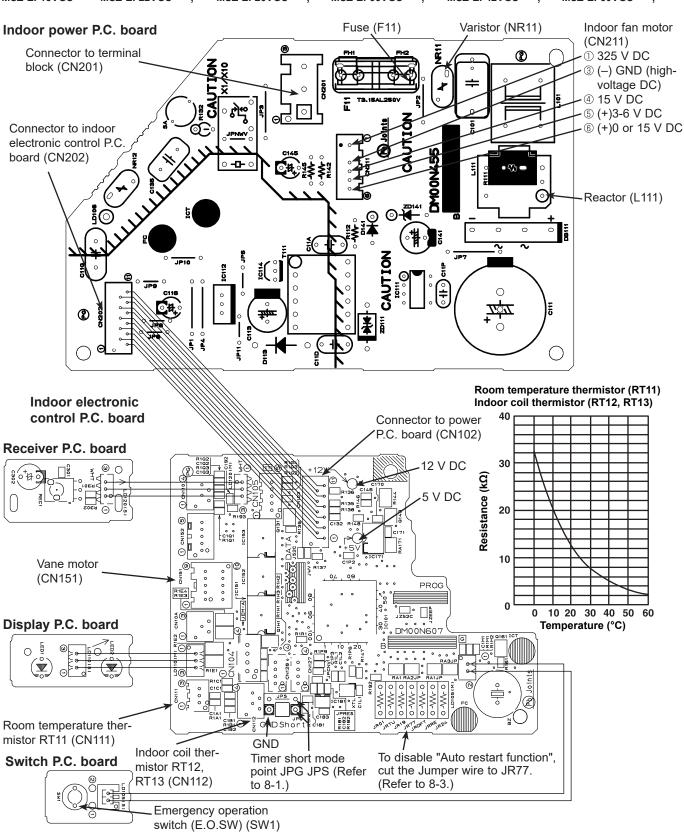
Check the following before asking for service.

- Devices affected by the electromagnetic noise
 TV sets, radios (FM/AM broadcast, shortwave)
- 2. Channel, frequency, broadcast station affected by the electromagnetic noise
- 3. Channel, frequency, broadcast station unaffected by the electromagnetic noise
- 4. Layout of:
 - indoor/outdoor unit of the air conditioner, indoor/outdoor wiring, earth wire, antennas, wiring from antennas, receiver
- 5. Electric field intensity of the broadcast station affected by the electromagnetic noise
- 6. Presence or absence of amplifier such as booster
- 7. Operation condition of air conditioner when the electromagnetic noise enters in
 - 1) Turn OFF the power supply once, and then turn ON the power supply. In this situation, check for the electromagnetic noise
 - 2) Within 3 minutes after turning ON the power supply, press STOP/OPERATE (OFF/ON) button on the remote controller for power ON, and check for the electromagnetic noise.
 - 3) After a short time (3 minutes later after turning ON), the outdoor unit starts running. During operation, check for the electromagnetic noise.
 - 4) Press STOP/OPERATE (OFF/ON) button on the remote controller for power OFF, when the outdoor unit stops but the indoor/outdoor communication still runs on. In this situation, check for the electromagnetic noise.

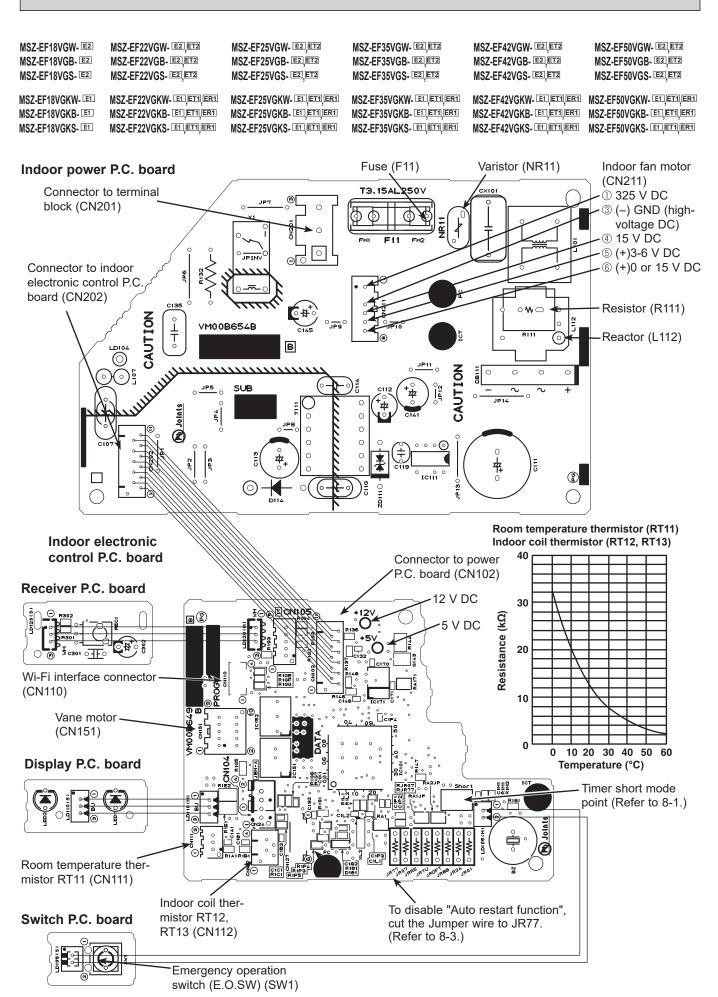
10-7. TEST POINT DIAGRAM AND VOLTAGE

1. Indoor electronic control P.C. board, indoor power P.C. board, receiver P.C. board and display P.C. board

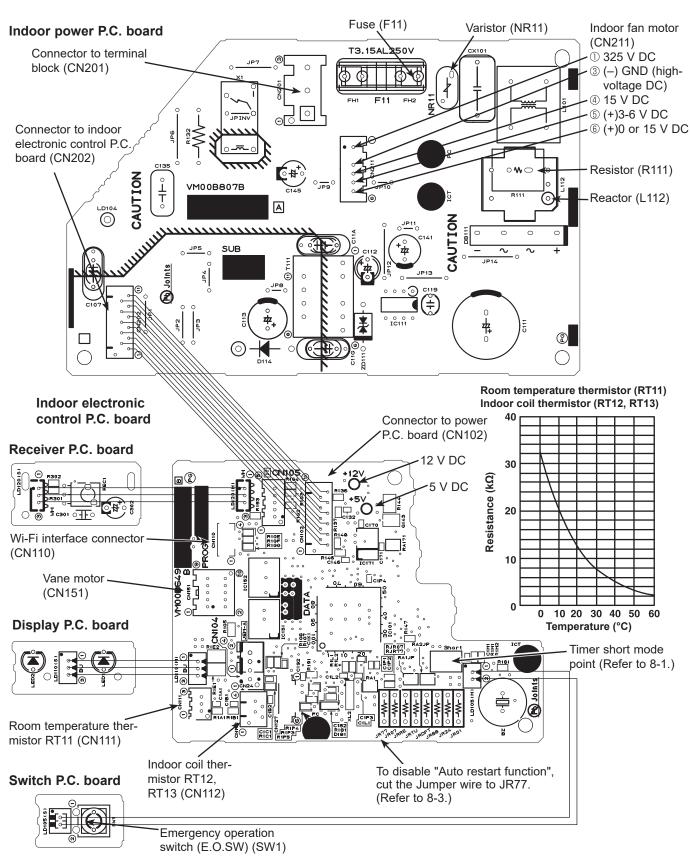
MSZ-EF18VGW- © MSZ-EF22VGW- © MSZ-EF25VGW- © MSZ-EF35VGW- © MSZ-EF42VGW- © MSZ-EF50VGW- © MSZ-EF18VGB- © MSZ-EF22VGB- © MSZ-EF25VGB- © MSZ-EF35VGB- © MSZ-EF42VGB- © MSZ-EF50VGB- © MSZ-EF50VGS- © MSZ-EF35VGS- © MSZ-EF42VGS- © MSZ-EF50VGS- © MSZ-EF50VGS- © MSZ-EF35VGS- © MSZ-EF35VGS- © MSZ-EF35VGS- © MSZ-EF30VGS- © MSZ-EF



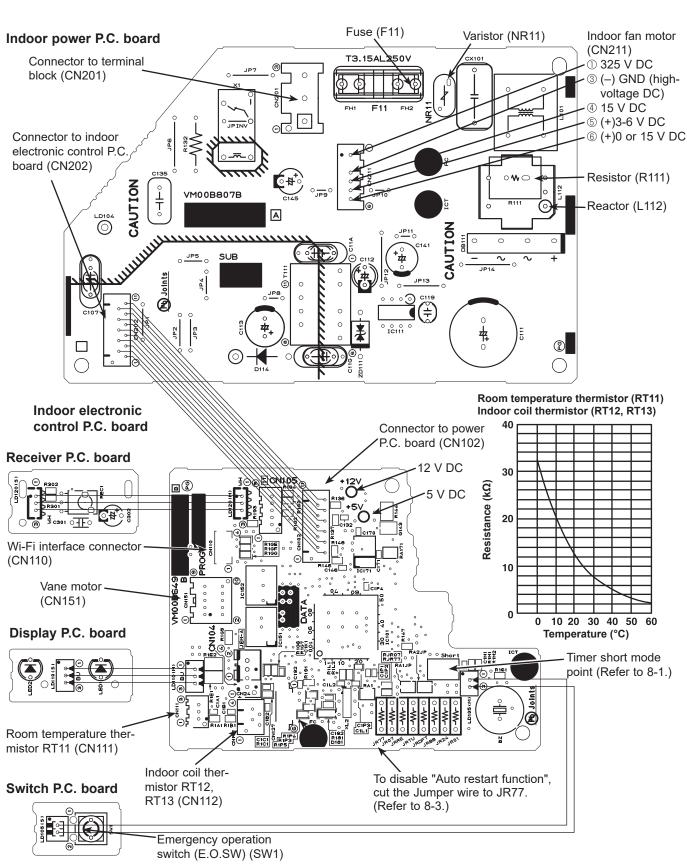
57



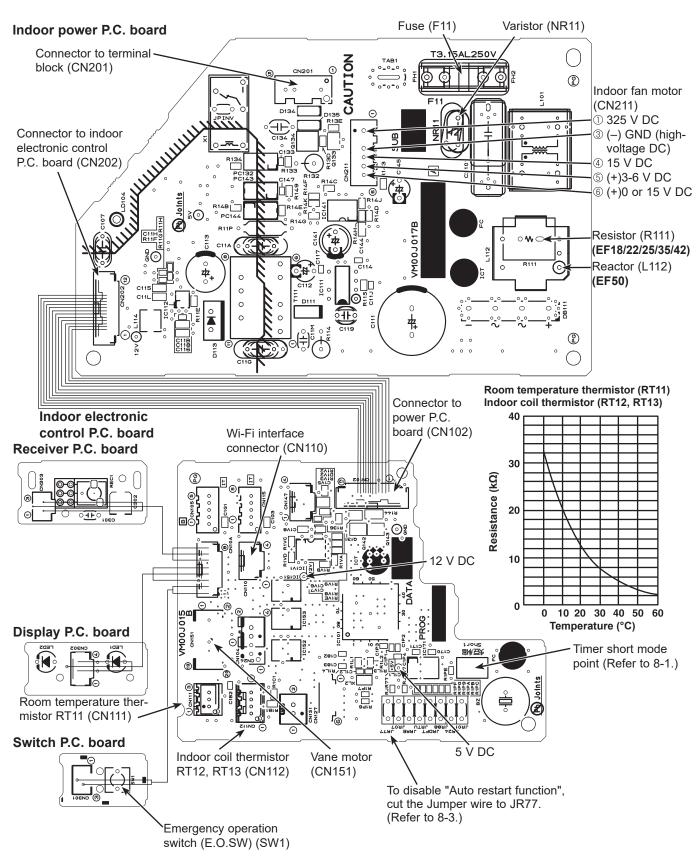
MSZ-EF22VGW- ET3 MSZ-EF25VGW- ET3 MSZ-EF35VGW- ET3 MSZ-EF42VGW- ET3 MSZ-EF50VGW- ET3 MSZ-EF22VGB- ET3 MSZ-EF25VGB- ET3 MSZ-EF35VGB- ET3 MSZ-EF42VGB- ET3 MSZ-EF50VGB- ET3 MSZ-EF25VGS- ET3 MSZ-EF25VGS- ET3 MSZ-EF30VGS- ET3 MSZ- ET30VGS- ET3 MSZ- ET30VGS- ET30VGS- ET30VGS- ET30VGS- ET30VGS- ET30VG



MSZ-EF18VGKW-E2	MSZ-EF22VGKW-E2, ET2, ER2	MSZ-EF25VGKW-E2, ET2, ER2
MSZ-EF35VGKW - E2, ET2, ER2	MSZ-EF42VGKW - E2 , ET2 , ER2	MSZ-EF50VGKW-E2, ET2, ER2
MSZ-EF18VGKB - E2	MSZ-EF22VGKB - E2, ET2, ER2	MSZ-EF25VGKB - E2, ET2, ER2
MSZ-EF35VGKB - E2, ET2, ER2	MSZ-EF42VGKB - E2, ET2, ER2	MSZ-EF50VGKB - E2, ET2, ER2
MSZ-EF18VGKS-E2	MSZ-EF22VGKS - E2 , ET2 , ER2	MSZ-EF25VGKS-E2, ET2, ER2
MSZ-EF35VGKS-E2, ET2, ER2	MSZ-EF42VGKS - E2, ET2, ER2	MSZ-EF50VGKS-E2, ET2, ER2



MSZ-EF22VG2W	MSZ-EF25VG2W	MSZ-EF35VG2W	MSZ-EF42VG2W	MSZ-EF50VG2W	
MSZ-EF22VG2B	MSZ-EF25VG2B	MSZ-EF35VG2B	MSZ-EF42VG2B	MSZ-EF50VG2B	
MSZ-EF22VG2S	MSZ-EF25VG2S	MSZ-EF35VG2S	MSZ-EF42VG2S	MSZ-EF50VG2S	
MSZ-EF18VGK2W	MSZ-EF22VGK2W	MSZ-EF25VGK2W	MSZ-EF35VGK2W	MSZ-EF42VGK2W	MSZ-EF50VGK2W
MSZ-EF18VGK2B	MSZ-EF22VGK2B	MSZ-EF25VGK2B	MSZ-EF35VGK2B	MSZ-EF42VGK2B	MSZ-EF50VGK2B
MSZ-EF18VGK2S	MSZ-EF22VGK2S	MSZ-EF25VGK2S	MSZ-EF35VGK2S	MSZ-EF42VGK2S	MSZ-EF50VGK2S



11

DISASSEMBLY INSTRUCTIONS

<Detaching method of the terminal with locking mechanism>

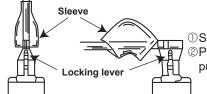
The terminal which has the locking mechanism can be detached as shown below.

There are 2 types of the terminals with locking mechanisms.

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.



①Slide the sleeve.

@Pull the terminal while pushing the locking lever.

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



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

11-1. MSZ-EF18VGW MSZ-EF35VGW MSZ-EF42VGW MSZ-EF50VGW MSZ-EF22VGW MSZ-EF25VGW MSZ-EF22VGB MSZ-EF25VGB MSZ-EF18VGB MSZ-EF35VGB MSZ-EF18VGS MSZ-EF22VGS MSZ-EF25VGS

MSZ-EF22VG2W MSZ-EF25VG2W MSZ-EF35VG2W MSZ-EF42VG2W MSZ-EF50VG2W

MSZ-EF35VGS MSZ-EF42VGS MSZ-EF22VG2B MSZ-EF25VG2B MSZ-EF35VG2B MSZ-EF42VG2B MSZ-EF50VG2B

MSZ-EF22VG2S MSZ-EF25VG2S MSZ-EF35VG2S MSZ-EF42VG2S MSZ-EF50VG2S

NOTE: Turn OFF the power supply before disassembly.

➤: Indicates the visible parts in the photos/figures. ----→: Indicates the invisible parts in the photos/figures.

MSZ-EF42VGB MSZ-EF50VGB

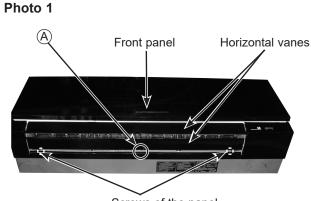
MSZ-EF50VGS

OPERATING PROCEDURE

1. Removing the panel

- (1) Remove the horizontal vanes.
- (2) Remove the screw caps of the panel. Remove the screws of the panel.
- (3) Unhook the lower part (A) of the panel.
- (4) First, hold the lower part of the right end of the panel, and hold the lower part of the left end of the panel.
- (5) Pull the panel slightly toward you, and then remove the panel by pushing it upward.

PHOTOS/FIGURES



Screws of the panel

2. Remove the indoor electrical box

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the screw of the V.A. clamp. Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (3) Remove the earth wire connected to the indoor heat exchanger from the electrical box.
- (4) Remove the screw of the electrical cover and remove the electrical cover.
- (5) Disconnect following connectors:
 <Indoor electronic control P.C. board>
 CN151 (Vane motor)
 <Indoor power P.C. board>
 CN211 (Indoor fan motor)
- (6) Remove the screw fixing the electrical box, then the upper catch of the electrical box, and pull out the electrical box.

Removing the indoor power P.C. board, the switch board, the display board, the receiver board and the indoor electronic control P.C. board

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the screw of the V.A. clamp. Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (3) Remove the indoor electrical box (Refer to section 2.).
- (4) Remove the earth wire connected to the electrical box from the indoor power P.C. board.
- (5) Disconnect the following connectors:
 <Indoor electronic power P.C. board>
 CN201 (Terminal block)
 CN202 (To the indoor electronic control P.C. board)
- (6) Remove the indoor power P.C. board.
- (7) Disconnect the following connectors: <Indoor electronic control P.C. board> CN111 (Room temperature thermistor) CN112 (Indoor coil thermistor)
- (8) Unhook the catches of the display P.C. board holder from the nozzle and the electrical box (right side).
- (9) Open the rear cover of the display P.C. board holder and remove the switch board, the display board and the receiver board.

Remove the indoor electronic control P.C. board.

PHOTOS/FIGURES

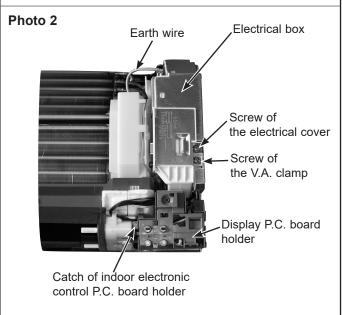
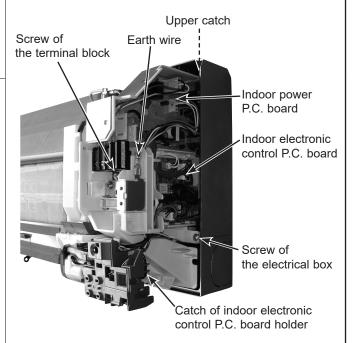


Photo 3



4. Removing the nozzle assembly

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the indoor/outdoor connecting wire (Refer to section 2.).
- (3) Remove the electrical cover (Refer to section 2.).
- (4) Disconnect the following connector: <Indoor electronic control P.C. board> CN151 (Vane motor)
- (5) Remove the display P.C. board holder.
- (6) Pull out the drain hose from the nozzle assembly and remove the nozzle assembly.
- (7) Remove the vane motors (Refer to section 5.).

5. Removing the horizontal vane motor

- (1) Remove the nozzle assembly (Refer to section 4.).
- (2) Remove the screws of the vane motor unit cover, and pull out the vane motor unit
- (3) Remove the screws of the vane motor unit.
- (4) Disconnect the connector from the vane motor.
- (5) Remove the vane motor from the vane motor unit.

PHOTOS/FIGURES

Photo 4



Screws of the vane motor unit cover

Screws of the vane motor unit

6. Removing the indoor fan motor, the indoor coil thermistor and the line flow fan

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the indoor electronic control P.C. board holder, the electrical box and the nozzle assembly.
- (3) Remove the screws fixing the motor bed.
- (4) Release the hooks of the water cut and remove the water cut
- (5) Loosen the screw fixing the line flow fan.
- (6) Remove the motor bed together with the indoor fan motor and the motor band.
- (7) Release the hooks of the motor band and remove the motor band. Pull out the indoor fan motor.
- (8) Remove the indoor coil thermistor from the heat exchanger.
 - * Install the indoor coil thermistor in its former position when assembling it (Photo 5.).
- (9) Remove the screws fixing the left side and the upper right side of the heat exchanger (Photo 7, Photo 8).
- (10) Lift the heat exchanger, and pull out the line flow fan to the lower-left.
 - * When attaching the line flow fan, screw the line flow fan so 4 mm gap is provided between the right end of the line flow fan and the right wall of the air passage of the box (Figure 1).

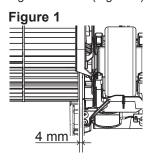


Photo 8

Screw of the upper right side of the heat exchanger



PHOTOS/FIGURES

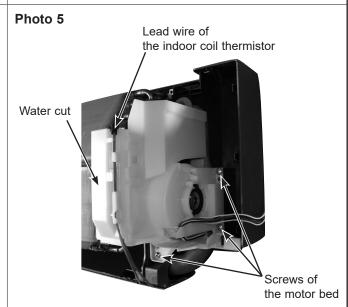


Photo 6

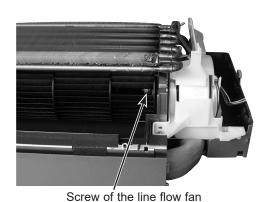
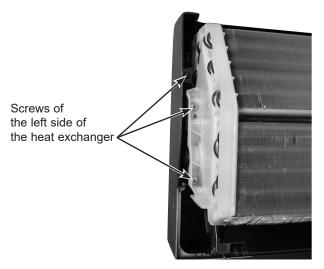


Photo 7



11-2. MSZ-EF18VGKW MSZ-EF22VGKW MSZ-EF25VGKW MSZ-EF35VGKW MSZ-EF42VGKW MSZ-EF50VGKW MSZ-EF18VGKB MSZ-EF22VGKB MSZ-EF25VGKB MSZ-EF35VGKB MSZ-EF42VGKB MSZ-EF50VGKB MSZ-EF18VGKS MSZ-EF22VGKS MSZ-EF25VGKS MSZ-EF35VGKS MSZ-EF42VGKS MSZ-EF50VGKS

NOTE: Turn OFF the power supply before disassembly. **OPERATING PROCEDURE** PHOTOS/FIGURES 1. Removing the panel Photo 1-1 Front panel Horizontal vanes Wi-Fi interface (1) Remove the front panel. Remove the horizontal Screw of (2) Remove the screw caps of the panel. Remove the Wi-Fi cover screws of the panel. (3) Remove the screw of the Wi-Fi cover on the upper right of the panel, and remove the Wi-Fi cover. (4) Remove the Wi-Fi interface on the right side of the panel. Pull out the Wi-Fi cable, and pull out the cable tie fixed on the panel. (A) (5) Insert Wi-Fi interface into the water cut (B) in the same direction as Photo 1-3, and fix it temporary. (6) Unhook the lower part (©) of the panel. (7) First, hold the lower part of the right end of the panel, and hold the lower part of the left end of the panel. Wi-Fi cover (8) Pull the panel slightly toward you, and then remove the panel by pushing it upward. Screws of the panel Photo 1-2 Photo 1-3 Wi-Fi interface

2. Removing the Wi-Fi interface

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the screw of the V.A. clamp. Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (3) Remove the screw of the electrical cover, and remove the electrical cover.
- (4) Disconnect the following connector (Photo 3): <Indoor electronic control P.C. board> CN110 (Wi-Fi interface)
- (5) Remove the lead wire of the Wi-Fi interface from the hook of the cable guide and water cut.

3. Removing the indoor electrical box

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the screw of the V.A. clamp. Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (3) Remove the earth wire connected to the indoor heat exchanger from the electrical box.
- (4) Remove the screw of the electrical cover and remove the electrical cover.
- (5) Disconnect following connectors: <Indoor electronic control P.C. board> CN151 (Vane motor) CN110 (Wi-Fi interface) <Indoor power P.C. board> CN211 (Indoor fan motor)
- (6) Remove the lead wire of the Wi-Fi interface, and remove the Wi-Fi interface (Refer to section 2.).
- (7) Remove the screw fixing the electrical box, then the upper catch of the electrical box, and pull out the electrical box.

Removing the indoor power P.C. board, the switch board, the display board, the receiver board and the indoor electronic control P.C. board

- (1) Remove the panel (Refer to Section 1.) and the corner box right.
- (2) Remove the screw of the V.A. clamp. Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (3) Remove the indoor electrical box (Refer to section 3.).
- (4) Remove the earth wire connected to the electrical box from the indoor power P.C. board.
- (5) Disconnect the following connectors: <Indoor electronic power P.C. board> CN201 (Terminal block)
 - CN202 (To the indoor electronic control P.C. board)
- (6) Remove the indoor power P.C. board.
- (7) Disconnect the following connectors:
 <Indoor electronic control P.C. board>
 CN111 (Room temperature thermistor)
 CN112 (Indoor coil thermistor)
- (8) Unhook the catches of the display P.C. board holder from the nozzle and the electrical box (right side).
- (9) Open the rear cover of the display P.C. board holder and remove the switch board, the display board and the receiver board.

Remove the indoor electronic control P.C. board.

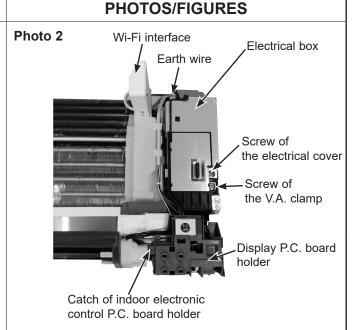
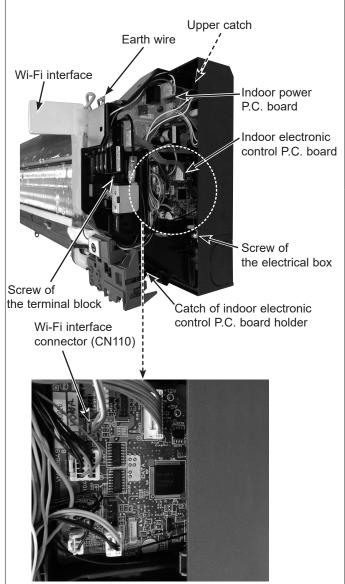


Photo 3



5. Removing the nozzle assembly

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the indoor/outdoor connecting wire (Refer to section 3.).
- (3) Remove the electrical cover (Refer to section 3.).
- (4) Disconnect the following connector: <Indoor electronic control P.C. board> CN151 (Vane motor)
- (5) Remove the display P.C. board holder.
- (6) Pull out the drain hose from the nozzle assembly and remove the nozzle assembly.
- (7) Remove the vane motors (Refer to section 6.).

6. Removing the horizontal vane motor

- (1) Remove the nozzle assembly (Refer to section 5.).
- (2) Remove the screws of the vane motor unit cover, and pull out the vane motor unit
- (3) Remove the screws of the vane motor unit.
- (4) Disconnect the connector from the vane motor.
- (5) Remove the vane motor from the vane motor unit.

PHOTOS/FIGURES

Photo 4



Screws of the vane motor unit cover

Screws of the vane motor unit

7. Removing the indoor fan motor, the indoor coil thermistor and the line flow fan

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the indoor electronic control P.C. board holder, the electrical box and the nozzle assembly.
- (3) Remove the screws fixing the motor bed.
- (4) Release the hooks of the water cut and remove the water cut.
- (5) Loosen the screw fixing the line flow fan.
- (6) Remove the motor bed together with the indoor fan motor and the motor band.
- (7) Release the hooks of the motor band and remove the motor band. Pull out the indoor fan motor.
- (8) Remove the indoor coil thermistor from the heat exchanger.
 - * Install the indoor coil thermistor in its former position when assembling it (Photo 5.).
- (9) Remove the screws fixing the left side and the upper right side of the heat exchanger (Photo 7, Photo 8).
- (10) Lift the heat exchanger, and pull out the line flow fan to the lower-left.
 - * When attaching the line flow fan, screw the line flow fan so 4 mm gap is provided between the right end of the line flow fan and the right wall of the air passage of the box (Figure 1).

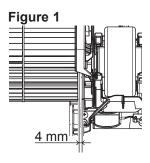


Photo 8

Screw of the upper right side of the heat exchanger



PHOTOS/FIGURES

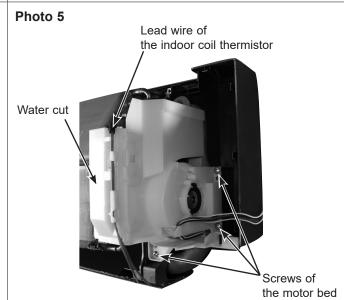
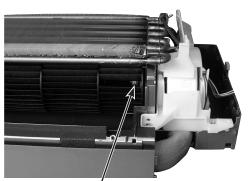
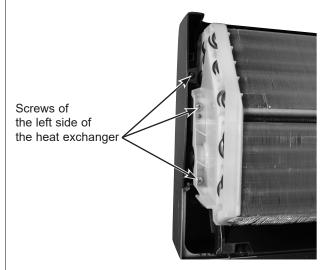


Photo 6



Screw of the line flow fan

Photo 7



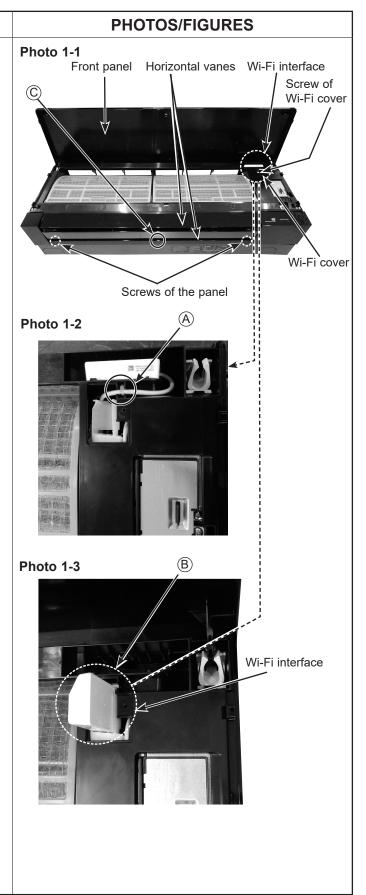
11-3. MSZ-EF18VGK2W MSZ-EF22VGK2W MSZ-EF25VGK2W MSZ-EF35VGK2W MSZ-EF42VGK2W MSZ-EF50VGK2W MSZ-EF18VGK2B MSZ-EF22VGK2B MSZ-EF25VGK2B MSZ-EF35VGK2B MSZ-EF42VGK2B MSZ-EF50VGK2B MSZ-EF18VGK2S MSZ-EF22VGK2S MSZ-EF50VGK2S

NOTE: Turn OFF the power supply before disassembly.

OPERATING PROCEDURE

1. Removing the panel

- (1) Remove the front panel. Remove the horizontal vanes.
- (2) Remove the screw caps of the panel. Remove the screws of the panel.
- (3) Remove the screw of the Wi-Fi cover on the upper right of the panel, and remove the Wi-Fi cover.
- (4) Remove the Wi-Fi interface on the right side of the panel. Pull out the Wi-Fi cable, and pull out the cable tie fixed on the panel. ((A))
- (5) Insert Wi-Fi interface into the water cut (®) in the same direction as Photo 1-3, and fix it temporary.
- (6) Unhook the lower part (©) of the panel.
- (7) First, hold the lower part of the right end of the panel, and hold the lower part of the left end of the panel.
- (8) Pull the panel slightly toward you, and then remove the panel by pushing it upward.



2. Removing the Wi-Fi interface

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the screw of the V.A. clamp.

 Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (3) Remove the screw of the electrical cover, and remove the electrical cover.
- (4) Disconnect the following connector (Photo 3): <Indoor electronic control P.C. board> CN110 (Wi-Fi interface)
- (5) Remove the lead wire of the Wi-Fi interface from the hook of the cable guide and water cut.

3. Removing the indoor electrical box

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the screw of the V.A. clamp. Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (3) Remove the earth wire connected to the indoor heat exchanger from the electrical box.
- (4) Remove the screw of the electrical cover and remove the electrical cover.
- (5) Disconnect following connectors: <Indoor electronic control P.C. board> CN151 (Vane motor) CN110 (Wi-Fi interface) <Indoor power P.C. board> CN211 (Indoor fan motor)
- (6) Remove the lead wire of the Wi-Fi interface, and remove the Wi-Fi interface (Refer to section 2.).
- (7) Remove the screw fixing the electrical box, then the upper catch of the electrical box, and pull out the electrical box.

Removing the indoor power P.C. board, the switch board, the display board, the receiver board and the indoor electronic control P.C. board

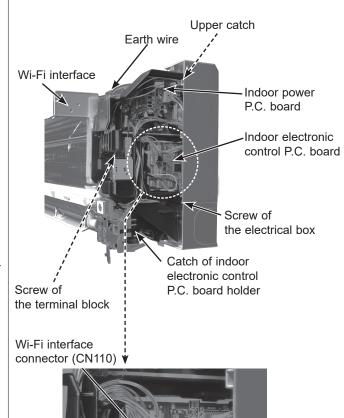
- (1) Remove the panel (Refer to Section 1.) and the corner box right.
- (2) Remove the screw of the V.A. clamp. Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (3) Remove the indoor electrical box (Refer to section 3.).
- (4) Remove the earth wire connected to the electrical box from the indoor power P.C. board.
- (5) Disconnect the following connectors: <Indoor electronic power P.C. board> CN201 (Terminal block)
 - CN202 (To the indoor electronic control P.C. board)
- (6) Remove the indoor power P.C. board.
- (7) Disconnect the following connectors:
 <Indoor electronic control P.C. board>
 CN111 (Room temperature thermistor)
 CN112 (Indoor coil thermistor)
- (8) Unhook the catches of the display P.C. board holder from the nozzle and the electrical box (right side).
- (9) Open the rear cover of the display P.C. board holder and remove the switch board, the display board and the receiver board.

Remove the indoor electronic control P.C. board.

Photo 2 Wi-Fi interface Earth wire Screw of the electrical cover Screw of the V.A. clamp Display P.C. board holder Catch of indoor electronic control P.C. board holder

PHOTOS/FIGURES

Photo 3



5. Removing the nozzle assembly

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the indoor/outdoor connecting wire (Refer to section 3.).
- (3) Remove the electrical cover (Refer to section 3.).
- (4) Disconnect the following connector: <Indoor electronic control P.C. board> CN151 (Vane motor)
- (5) Remove the display P.C. board holder.
- (6) Pull out the drain hose from the nozzle assembly and remove the nozzle assembly.
- (7) Remove the vane motors (Refer to section 6.).

6. Removing the horizontal vane motor

- (1) Remove the nozzle assembly (Refer to section 5.).
- (2) Remove the screws of the vane motor unit cover, and pull out the vane motor unit
- (3) Remove the screws of the vane motor unit.
- (4) Disconnect the connector from the vane motor.
- (5) Remove the vane motor from the vane motor unit.

PHOTOS/FIGURES

Photo 4



Screws of the vane motor unit cover

Screws of the vane motor unit

7. Removing the indoor fan motor, the indoor coil thermistor and the line flow fan

- (1) Remove the panel (Refer to section 1.) and the corner box right.
- (2) Remove the indoor electronic control P.C. board holder, the electrical box and the nozzle assembly.
- (3) Remove the screws fixing the motor bed.
- (4) Release the hooks of the water cut and remove the water cut.
- (5) Loosen the screw fixing the line flow fan.
- (6) Remove the motor bed together with the indoor fan motor and the motor band.
- (7) Release the hooks of the motor band and remove the motor band. Pull out the indoor fan motor.
- (8) Remove the indoor coil thermistor from the heat exchanger.
 - * Install the indoor coil thermistor in its former position when assembling it (Photo 5.).
- (9) Remove the screws fixing the left side and the upper right side of the heat exchanger (Photo 7, Photo 8).
- (10) Lift the heat exchanger, and pull out the line flow fan to the lower-left.
 - * When attaching the line flow fan, screw the line flow fan so 4 mm gap is provided between the right end of the line flow fan and the right wall of the air passage of the box (Figure 1).

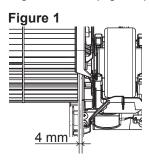


Photo 8

Screw of the upper right side of the heat exchanger



PHOTOS/FIGURES

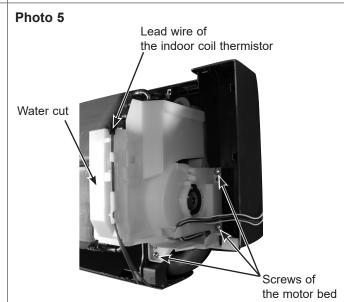
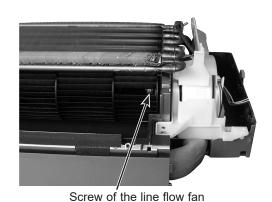
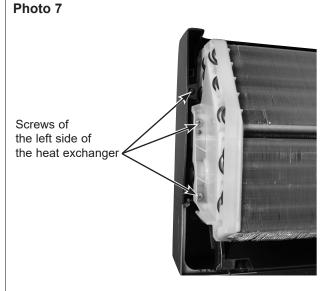


Photo 6





Fixing the indoor coil thermistor

* There are 2 forms of parts for fixing the indoor coil thermistor.

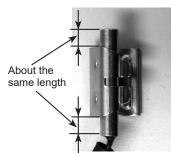
Clip shape



Holder shape



When fixing the indoor coil thermistor to the clip-shape/holder-shape part, the lead wire should point down.



Position and procedure for mounting the clip-shape part

 Set the indoor coil thermistor in the center of the clip-shape part.



2. Check the (marked) mounting position.



3. Mount the clip-shape part.



NOTE:

- Take care to avoid loss and accidental falling of the clip-shape part inside the unit.
- Mount the clip-shape part on the marked position.
- Do not pull the lead wire when removing the indoor coil thermistor.

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