SPLIT TYPE ROOM AIR CONDITIONER WALL MOUNTED type INVERTER

SERVICE INSTRUCTION

Models

Indoor unit

AS*G18KMTA AS*G24KMTA Outdoor unit AO*G18KMTA AO*G24KMTA

RSG18KMTA ROG18KMTA RSG24KMTA ROG24KMTA



FUJITSU GENERAL LIMITED



WALL MOUNTED type INVERTER

2. TROUBLE SHOOTING

2.TROUBLESHOOTING

2-1 ERROR DISPLAY

2-1-1 INDOOR UNIT AND WIRED REMOTE CONTROLLER DISPLAY

Please refer the flashing pattern as follows.

The OPERATION, TIMER and ECONOMY lamps operate as follows according to the error contents.

	Indoor Unit Display			Wired Remote	
Error Contents	OPERATION[] (Green)	TIMER [ⓓ] (Orange)	ECONOMY[쏸] (Green)	Controller Display	Trouble shooting
Serial communication error	1 time	1 time	Continuous	11	1, 2
Wired remote controller communication error	1 time	2 times	Continuous	12	3
Combination error	2 times	3 times	Continuous	23	4
Indoor unit PCB model information error	3 times	2 times	Continuous	32	5
Manual auto switch error	3 times	5 times	Continuous	35	6
Room temp. sensor error	4 times	1 time	Continuous	41	7
Indoor unit Heat Ex. Middle temp. sensor error	4 times	2 times	Continuous	42	8
Indoor unit fan motor error	5 times	1 time	Continuous	51	9
Outdoor unit main PCB model information error	6 times	2 times	Continuous	62	10
Inverter error	6 times	3 times	Continuous	63	11
PFC circuit error	6 times	4 times	Continuous	64	12
Trip terminal L error	6 times	5 times	Continuous	65	13
Discharge temp. sensor error	7 times	1 time	Continuous	71	14
Compressor temp. sensor error	7 times	2 times	Continuous	72	15
Outdoor unit Heat Ex. liquid temp. sensor error	7 times	3 times	Continuous	73	16
Outdoor temp. sensor error	7 times	4 times	Continuous	74	17
Current sensor error	8 times	4 times	Continuous	84	18
High pressure switch error	8 times	6 times	Continuous	86	19
Trip detection	9 times	4 times	Continuous	94	20
Compressor rotor position detection error	9 times	5 times	Continuous	95	21
Outdoor unit fan motor error	9 times	7 times	Continuous	97	22
4-way valve error	9 times	9 times	Continuous	99	23
Discharge temp. error	10 times	1 time	Continuous	A1	24
Compressor temp. error	10 times	3 times	Continuous	A3	25

2-1-2 WIRELESS LAN INDICATOR DISPLAY

1.WIRELESS LAN CONTROL system layout



2.NAME OF PARTS



3.WIRELESS LAN ADAPTER INDICATOR

Please refer the flashing pattern as follows.

W-LAN LED (orange) operate as follow according to the error contents.

Error Contents	Wireless LAN adapter Indicator	Error Code	Trouble shooting
Endrooments	LED (Orange)		
External Communication Error (Communication Error of between IndoorUnit to Wireless LAN adapter)	On or Off *	18	32
Network Communication Error (Communication Error of between Wireless LAN Router to Wireless LAN adapter)	Flashing slow On/Off=7sec/2sec	No Error	33
Network Communication Error (Communication Error of between Wireless LAN Router to CLOUD)	On	No Error	34
Communication Error ("Trou. 29" and "Trou. 32" are simultaneous Error)	Flashing slow On/Off=7sec/2sec	18	35
Wireless LAN adapter Non-Energized	On or Off *	18	36

*: On; Connection information with router is available, Off; Connection information with router is unavailable.

2-1-3 MOBILE APP DISPLAY (For AIR CONDITIONER)

1.ERROR DISPLAY

If there is an abnormality on the air conditioning, you will see \triangle is as follows. When you tap the "Error button" \triangle on the home screen, Error Code and Error Name is displayed.



2.ERROR CODE

Error message	Error Code	Trouble shooting
Serial communication error (Serial Reverse Transfer Error)	11.1/ 11.2	1-1
Serial communication error (Serial Forward Transfer Error)	11.3/11.4	1-2
Wired remote controller communication error	12.1	2
Combination error	18.1	3
Indoor unit PCB model information error	32.1	4
Manual auto switch error	35.1	5
Room temp. sensor error	41.1	6
Indoor unit Heat Ex. Middle temp. sensor error	42.2	7
Indoor unit fan motor error	51.1/ 51.2	8
Outdoor unit main PCB model information error	62.1/ 62.2	9
Inverter error	63.1/ 63.2	10
PFC circuit error	64.1/64.3	11
	64.4/ 64.8	
Trip terminal L error	65.3	12
Discharge temp. sensor error	71.1	13
Outdoor unit Heat Ex. liquid temp.sensor error	73.3	14
Outdoor temp. sensor error	74.1	15
Current sensor error	84.1	16
High Pressure Switch Error	86.4	17
Trip detection	94.1	18
Compressor rotor position detection error	95.1/95.3	19
Outdoor unit fan motor error	97.3	20
4-way valve error	99.1	21
Discharge temp. error	A1.1	22

2-1-4 MOBILE APP DISPLAY (In Wireless LAN Control system)

1.ERROR DISPLAY

If there is an abnormality on the Wireless LAN control system, you will see is as follows. Error messages will disappear at 5 seconds. Then return to normal display.



2.ERROR MESSAGES LIST

Mobile app errors

Registration Errors (For Android)

Error messages	Causes	Solutions
Wi-Fi must be enabled to set up new device	The user has disabled Wi-Fi on their mobile device.	Enable Wi-Fi from the Android setting.
We weren't able to sign you onto null. Please go to the Wi-Fi settings and join the network from there. Return to the app when you're done.	The mobile device and air conditioner are connected to different Wi-Fi networks when attempting to register.	Connect the mobile device to the same network as the air conditioner, then retry the registration.
Could not connect to the device at this time. Please reset the device and try again.	The air conditioner is not connected to Wi-Fi.	Check if the router connected to the air conditioner has internet access. (You can check by connecting the mobile device to the router, then opening the website.) If there is no access, connect the router to the internet.
	Mobile device is not connected to the same network as the air conditioner.	Connect the mobile device to the same network as the air conditioner, then retry the registration.
The device failed to connect with service.	Your internet access may be down or blocking requests to the service.	Check if the router connected to the air conditioner has internet access. (You can check by connecting the mobile device to the router, then opening the website.) If there is no access, connect the router to the internet, then retry the registration.

Error messages	Causes	Solutions
Could not register the device. Make sure the device is ready for registration.	The air conditioner is not connected to the router.	Enter the Wi-Fi setting on the mobile device, then check if the SSID of the air conditioner (AP-WF**- ************) is connected. If the air conditioner is connected, retry the registration.
	The router the air conditioner is connected to, has no internet access.	Check if the router connected to the air conditioner has internet access. (You can check by connecting the mobile device to the router, then open the website.) If there is no access, connect the router to the internet, then retry the registration.
	The air conditioner is already registered.	If there is a mobile device that has already been registered to the air conditioner, unregister by using the registered mobile device. Retry the registration with the mobile device you wish to register. If you do not own the mobile device registered to the air conditioner (lost, property of previous owner, etc.), please ask your maker service to unregister the mobile device. Please notify the MAC address of the WLAN adapter as written on the Wireless LAN label.
	* If the problem persists even if the all of the above is conducted, please contact your dealer or authorized service personnel. When asking for advice, please notify the MAC address of the WLAN adapter as written on the Wireless LAN label.	
Please ensure your air conditioner is ready to pair, and that you have entered its SSID and password correctly.	Occurs when pairing is executed, when the user erroneously enter the SSID of the adapter.	Enter the SSID literally. (Uppercase and lowercase letters also match)

Registration Errors (For iOS)

Error messages	Causes	Solutions
You need an internet connection to add new devices.	The user has disabled Wi-Fi on their mobile device.	Enable Wi-Fi from the iOS setting.
Could not register same LAN device. Make sure both devices are in the same LAN and try again to register.	The mobile device and air conditioner are connected to different Wi-Fi networks when attempting to register.	Connect the mobile device to the same network as the air conditioner, then retry the registration.
No registrable device was found. Make sure Wi-Fi setup was successful. This method only works if the Wi-Fi was recently performed.	The air conditioner is not connected to Wi-Fi.	Check if the router connected to the air conditioner has internet access. (You can check by connecting the mobile device to the router, then opening the website.) If there is no access, connect the router to the internet.
	Mobile device is not connected to the same network as the air conditioner.	Connect the mobile device to the same network as the air conditioner, then tap register button.
Could not register the device. Make sure the device is ready for registration.	The air conditioner is not connected to the router.	Enter the Wi-Fi setting on the mobile device, then check if the SSID of the air conditioner (AP-WF**- *************) is connected. If the air conditioner is connected, retry the registration.

Error messages	Causes	Solutions
Could not register the device. Make sure the device is ready for registration.	The router the air conditioner is connected to, has no internet access.	Check if the router connected to the air conditioner has internet access. (You can check by connecting the mobile device to the router, then opening the website.) If there is no access, connect the router to the internet, then retry the registration.
	The air conditioner is already registered.	If there is a mobile device that has already been registered to the air conditioner, unregister by using the registered mobile device. Retry the registration with the mobile device you wish to register. If you do not own the mobile device registered to the air conditioner (lost, property of previous owner, etc.), please ask your maker service to unregister the mobile device. Please notify the MAC address of the WLAN adapter as written on the Wireless LAN label.
	* If the problem persists e conducted, please conta service personnel. Whe the MAC address of the Wireless LAN label.	even if the all of the above is act your dealer or authorized n asking for advice, please notify WLAN adapter as written on the
Please ensure your air conditioner is ready to pair, and that you have entered its SSID and password correctly.	Occurs when pairing is executed, when the user erroneously enter the SSID of the adapter.	Enter the SSID literally. (Uppercase and lowercase letters also match)

General Errors (For Android)

Error messages	Causes	Solutions
No connectivity to Wi- Fi or the cloud. Please check your network connection.	The mobile device has no internet access.	Connect the mobile device to the internet.
An error occurred while trying to update your profile. Please try again later.		
Device is offline and cannot be modified.	The router the air conditioner is connected to, has no internet access.	Check if the router connected to the air conditioner has internet access. (You can check by connecting the mobile device to the router, then opening the website.) If there is no access, connect the router to the internet.
	The air conditioner is not connected to the router.	Check the W-LAN LED indicators on the air conditioner. If the W-LAN LED lamp is flashing or off, please check the TROUBLESHOOTING "State of the Wireless LAN indicators".

General Errors (For iOS)

Error messages	Causes	Solutions
Failed to change password.	The mobile device has no internet access.	Connect the mobile device to the internet.
Cloud not determine service reachability.	-	
Failed to update property.	-	
Could not retrieve schedules.		
The operation couldn't be completed. Operation timed out.		
"Device name" is offline. (Device name varies depending on the air conditioner)	The router the air conditioner is connected to has no internet access.	Check if the router connected to the air conditioner has internet access. (You can check by connecting the mobile device to the router, then opening the website to check access.) If there is no access, connect the router to the internet.
	The air conditioner is not connected to the router.	Check the W-LAN LED indicators on the air conditioner. If the W-LAN LED lamp is flashing or off, please check the TROUBLESHOOTING "State of the Wireless LAN indicators".

Sign-in Errors (For Android/ iOS)

Error messages	Causes	Solutions
Could not reach service.	The mobile device has no internet access.	Connect the mobile device to the internet.

2-2 TROUBLESHOOTING WITH ERROR CODE







Trouble shooting 4 <u>INDOOR UNIT Error Method:</u> Combination error	Indicate or Display: Outdoor Unit : No indication Indoor Unit : Operation lamp: 2 time Flash, Timer lamp: 3 time Flash Economy lamp: Continuous flash. ERROR CODE : [E : 23]
Detective Actuators: Indoor unit	 Detective details: 1. The outdoor unit receives the serial signal of applied refrigerant information from Indoor unit. When the refrigerant is R410a. 2. When the outdoor unit type is multi.

Forecast of Cause:

1. The selection of indoor units is incorrect

Check Point 1 : Check the type of indoor unit

Check the type of the connected indoor unit.
 >> If abnormal condition is found, correct it.



Check Point 2 : Replace Main PCB

▶ If Check Point 1 do not improve the symptom, replace Main PCB of Outdoor unit.



Forecast of Cause:

1.External cause 2. Defective connection of electric components 3. Controller PCB failure



EEPROM(Electronically Erasable and Programmable Read Only Memory) is a nonvolatile memory which keeps memorized information even if power is turned off. It can change the contents electronically. To change the contents, it uses higher voltage than normal, and it can not change a partial contents. (Rewriting shall be done upon erasing the all contents.) There is a limit in a number of rewriting.

Trouble shooting 6 INDOOR UNIT Error Method: Manual auto switch error	Indicate or Display: Outdoor Unit : No indication Indoor Unit : Operation lamp: 3 times Flash, Timer lamp: 5 times Flash Economy lamp: Continuous flash. ERROR CODE : [E : 35]
Detective Actuators:	Detective details:
Indoor unit Controller PCB Indicator PCB Manual auto switch	When the Manual Auto Switch becomes ON for consecutive 60 or more seconds.

Forecast of Cause :

1.Manual auto switch failure

e 2.Controller PCB and Indicator PCB failure

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Check Point 1 : Check the Manual auto switch

• Check if Manual auto switch is kept pressed.

Check ON/OFF switching operation by using a meter.

>>If Manual Auto Switch is disabled (on/off switching), replace it.



Check Point 2 : Replace Controller PCB

▶ If Check Point 1 do not improve the symptom, change Controller PCB and Indicator PCB.



Trouble shooting 8 <u>INDOOR UNIT Error Method:</u> Indoor unit Heat Ex. Middle temp. sensor error		<u>Inc</u> Ou Ind ER	Indicate or Display: Outdoor Unit : No indication Indoor Unit : Operation lamp: 4 times Flash, Timer lamp: 2 times Flash Economy lamp: Continuous flash. ERROR CODE : [E : 42]						
Detective Actuators:		Do	toctivo d	otailer					
Indoor unit Controller PC Heat Ex. temperature the	B ermistor	v V	Detective details: When Heat Ex. Temperature Thermistor open or short-circuit is detected.						
Forecast of Cause : 1.Connector conne	ction failure	e 2.Th	ermistor	failure 3	3. Contro	ller PCB	failure		
Check Point 1 : Check cont - Check if connector is remove - Check erroneous connection - Check if thermistor cable is o	nection of (ed. 1. open.	Connect	or						
>>Upon correcting the rem	oved conne	ector or	mis-wirin	<u>g, reset t</u> ł	ne power.	_			
Check Point 2 : Remove co	onnector an	nd check	Thermis	tor resist	ance valu	le			
Thermistor Characteristics	s (Approx. v	value)							
Temperature	-30°C	-20°C	-10°C	-5°C	0°C	5°C	10°C	20°C	Ω
Resistance Value (kΩ)	1131.9	579.6	312.3	233.2	176.0	134.2	103.3	62.9	$\oslash \$$
Temperature	30°C	40°C	50°C	60°C	63°C				
Resistance Value (kΩ)	39.6	25.6	17.1	11.6	10.4				
▶ If Thermistor is either op	en or short	ed, repla	ace it and	reset the	power.	-			
Check Point 3 : Check volta	age of Con	troller P	CB (DC5	.0V)					
Make sure circuit diagram	n of indoor	unit and	d check te	erminal v	oltage at	Thermist	or (DC5.0	OV)	
CN1 1 1 BLACK 2 2 BLACK 3 3 BLACK 4 4 BLACK									
(ROOM TEMP.)									
▶ <u>If the voltage does not</u>	appear, rep	olace Co	ntroller P	СВ.					

Indicate or Display:







Trouble shooting 12 OUTDOOR UNIT Error Method: PFC circuit error	Indicate or Display: Outdoor Unit : No indication Indoor Unit : Operation lamp: 6 times Flash, Timer lamp: 4 times Flash Economy lamp: Continuous flash. ERROR CODE : [E : 64]
Detective Actuators:	Detective details:
Outdoor unit Main PCB	When inverter output DC voltage is higher than 420V for over 3 seconds, the compressor stops.If the same operation is repeated 5 times, the compressor stops permanently.

Forecast of Cause :

1.External cause 2. Connector connection failure 3. Main PCB failure



Trouble shooting 13 OUTDOOR UNIT Error Method: Trip terminal L error	Indicate or Display:Outdoor Unit: No indicationIndoor Unit: Operation lamp: 6 times Flash, Timer lamp: 5 times Flash Economy lamp: Continuous flash.ERROR CODE : [E : 65]
Detective Actuators:	Detective details:

Outdoor unit Main PCB

When the signal from FO terminal of IPM is "L"(=0V) while the compressor stops.

Forecast of Cause:

1.Outdoor unit Main PCB failure

Check Point 1 : Replace Main PCB

Replace Outdoor unit Main PCB.



If the voltage does not appear, replace Main PCB.

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Trouble shooting 19 OUTDOOR UNIT Error Method: High Pressure Switch Error	Indicate or Display: Outdoor Unit : LED 0.1sec ON/ 0.1sec OFF Indoor Unit : Operation lamp: 8 times Flash, Timer lamp: 6 times Flash Economy lamp : Continuous flash. ERROR CODE : [E : 86]			
Detective Actuators:	Detective details:			
Outdoor unit Main PCB High Pressure Switch	When pressure switch open is detected in 10 seconds after the power is turned on.			
Forecast of Cause :				
1.High pressure switch connector disconnection, open 2.High pressure switch characteristics failure 3.Main PCB failure				
Check Point 1 : Check the high pressure switch connection state				
 Connector and wiring connection state check Cable open check 				
ок				
Check Point 2 : Check the high pressure switch characteristics				
 Switch characteristics check *For the characteristics of high pressure switch, refer to below. 				
ок				
Check Point 3 : Replace Main PCB				
Change Main PCB, and execute the check o	peration again.			

Trouble shooting 22 <u>OUTDOOR UNIT Error Method:</u> Outdoor unit fan motor error	Indicate or Display: Outdoor Unit : LED 5sec ON/ 5sec OFF Indoor Unit : Operation lamp: 9 times Flash, Timer lamp: 7 times Flash Economy lamp: Continuous flash. ERROR CODE : [E : 97]
Detective Actuators: Outdoor unit Main PCB Outdoor unit fan motor	Detective details: ① When outdoor fan rotation speed is less than 100rpm in 20 seconds after fan motor starts, fan motor stops. ② After fan motor restarts, if the same operation within 60sec is repeated 3 times in a row, compressor and fan motor stops. ③ If ① and ② repeats 5 times in a row, compressor and fan motor stops

Forecast of Cause:

1.Fan rotation failure 2. Motor protection by surrounding temperature rise 3. Main PCB failure 4.Outdoor unit fan motor failure

Trouble shooting 23 OUTDOOR UNIT Error Method: 4-way valve error	Indicate or Display: Outdoor Unit : No indication Indoor Unit : Operation lamp: 9 times Flash, Timer lamp: 9 times Flash Economy lamp: Continuous flash. ERROR CODE : [E : 99]		
Detective Actuators: Indoor unit Controller PCB Heat Ex. temperature thermistor Room temperature thermistor 4-way valve	Detective details: When the indoor heat exchanger temperature is compared with the room temperature, and either following condition is detected continuously 2 times, the compressor stops. • Cooling or Dry operation [Indoor heat exchanger temp.] - [Room temp.] > 10degC • Heating operation [Indoor heat exchanger temp.] - [room temp.] < -10degC		
Forecast of Cause : 1.Connector connection failure 5.Controller PCB failure	2. Thermistor failure 3. Coil failure 4. 4-way valve failure		
Check Point 1 : Check connection of Connector Check if connector is removed. Check erroneous connection. Check if thermistor cable is open. Jupon correcting the removed connector or mis-wiring, reset the power. OK			
Check Point 2 : Check each thermistor Isn't it fallen off the holder? Is there a cable pinched? Check characteristics of thermistor (Refer to Trouble shooting 7, 8), If defective, replace the thermistor			
Check Point 3 : Check the solenoid coil and 4-way valve			
[Solenoid coll] • Remove P60 from PCB and check the resistance value of coil. Resistance value is 2780 Ω >>If it is Open or abnormal resistance value, replace Solenoid Coil.			
Check each piping temperature, and the location of the valve by the temperature difference. >>If the value location is not proper, replace 4-way valve.			
Check Point 4 : Replace Controller PCB			

2-3 TROUBLESHOOTING WITH NO ERROR CODE

Trouble shooting 26

Forecast of Cause:

Indoor unit - No Power

1.Power Supply failure 2. External cause 3.Electrical Components defective

Trouble shooting 27

Outdoor unit - No Power

Forecast of Cause:

1.Power Supply failure 2. External cause 3.Electrical Components defective

Trouble shooting 28

No Operation (Power is ON)

Forecast of Cause:

1.Setting/ Connection failure23.Electrical Component defective

2. External cause

Check Point 1 : Check indoor and outdoor installation condition
Indoor unit - Check incorrect wiring between Indoor unit - Remote control.
Are these Indoor unit. Outdoor unit, and Remote control suitable model numbers to connect?
>>If there is some abnormal condition, correct it by referring to Installation manual and
Data & Technical Manual.
ОК
Turn off Power and check/ correct followings.
Is there loose or removed communication line of Indoor unit and Outdoor unit?
ок
Check Point 2 : Check external cause at Indoor and Outdoor (Voltage drop or Noise)
Instant drop Check if there is a large load electric apparatus in the same circuit.
Momentary power failure Check if there is a defective contact or leak current in the power supply circuit.
Noise Check if there is any equipment causing harmonic wave near electric line.
(Neon bulb or electric equipment that may cause harmonic wave)
Check the complete insulation of grounding.
ок
Check Point 3 : Check Electrical Components at Indoor and Outdoor
Check Voltage at CN300 (Terminal 1-2) of UTY-TWRXZ2 (Communication kit). (Power supply to Remote control)
>> If it is DC12V, Remote control is failure. (Controller PCB is normal) >> Replace Remote control >> If it is DC 0V, Controller PCB is failure. (Check Remote control once again) >> Replace Controller PCB
>>If the symptom does not change by above Check 1, 2, 3, replace Main PCB of Outdoor unit.

2-4 TROUBLESHOOTING WITH ERROR CODE (For WIRELESS LAN ADAPTER)

Trouble shooting 32 <u>INDOOR UNIT Error Method:</u> External Communication Error (Communication Error of between IndoorUnit to WirelessLANadapter)	Indicate of Display: Indoor Unit : Operation lamp: 1 times Flash Timer lamp : 8 times Flash W-LAN lamp : On or Off ERROR CODE : [18]
Detective Actuators:	Detective details:
Wireless LAN adapter PCB Controller PCB	After receiving a signal from the wireless LAN adapter, the same a signal has not been received for 15sec. NG Indoor unit Outdoor unit Outdoor unit Wireless LAN adapter

Forecast of Cause:

- 1. Connection between A/C and Wireless LAN adapter failure
- 2. Wireless LAN adapter PCB failure
- 3. Controller PCB failure

Check Point 1 : Check the connection

Check any loose or removed connection of between the Wireless LAN adapter PCB and Controller PCB
 >If there is abnormal condition, correct it.

Check the connection condition on the Controller PCB >If there is loose connector, open cable or miswiring, correct it.

Check Point 2 : Replace wireless LAN adapter

► If Check Point 1 do not improve the symptom, replace Wireless LAN adapter and Please cancel the air conditioner of the registration on the Mobile App. <u>After the replace adapter</u>, Please perform the pairing on the app.

>Air conditioning de-registration method, refer to page "02 - 46"
>Pairing method, refer to page "02 - 47--02-54"

Check Point 3 : Replace Controller PCB

▶ If Check Point 2 do not improve the symptom, replace controller PCB.

Trouble shooting 36 <u>INDOOR UNIT Error Method:</u> Wireless LAN adapter Non-Energized	Indicate of Display: Indoor Unit : Operation lamp: 1 time Flash Timer lamp : 8 time Flash W-LAN lamp : On or Off ERROR CODE : [18]	
Detective Actuators: Indoor unit Controller PCB Wireless LAN adapter PCB	Detective details: When the does not output the DC12 voltage from Controller PCB.	

Forecast of Cause:

- 1. Indoor unit Controller PCB failure
- 2. Wireless LAN adapter PCB failure
- 3. Wiring connection failure

Check Point 1 : Check the connection

• Check any loose or removed connection of between the Wireless LAN adapter PCB and Controller PCB >If there is abnormal condition, correct it.

Check the connection condition on the Controller PCB >If there is loose connector, open cable or miswiring, correct it.

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Check Point 2 : Check the Wireless LAN adapter PCB and Controller PCB

• Check Voltage at CN6 (Pin #1=12V, Pin #4=GND) of Controller PCB. >If it is DC 0V, Controller PCB is failure.

Replace Controller PCB.

>If it is DC12V, Wireless LAN adapter PCB failure.

Replace Wireless LAN adapter and please cancel the air conditioner of the registration on the Mobile App. After the replace adapter, Please perform the pairing on the App. DC

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> Air conditioning de-registration method, refer to page "02 - 46

> Pairing method, refer to page "02 - 47--02 - 54"

Air Conditioning De-registration Method

If you replace the Wireless LAN adapter, you will need to de-register all of the conditioner information on the App. Unregister method is as follows.

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👚 Home Group

VXFUJITSU000002 Operating Mode: Col

Devices

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- 1 Launch the mobile app(FGL air).
- 2 Please long-push the registered "Device name" of Air Conditioner.

3 Then will display the "Unregister" button. Please tap the "Unregister" button.

4 Please tap the "Yes".

- Devices Processory Processor
- $5 \ \ {\rm Air \ Conditioner \ Unregister \ is \ complete.}$

Air conditioner registration **Paring Method**

Choose from the following modes to connect your Air conditioner to your Wireless LAN router. Note:

- Before starting this setting, wait for 60 seconds or more after the power supply is connected to the air conditioner (via breaker or plug). Confirm that the LED 1 is not flashing.
- Check that the smartphone or tablet PC is linked to the wireless router you are connecting the air conditioner. The setting will not work if it is not connected to the same wireless router.
- To control 2 or more air conditioners with the same smartphone or tablet PC, repeat the setup of the chosen mode.
- The display contents are subject to change as a result of updates in the mobile app, and may not match the actual screen.

Manual mode (For Android OS)

*Lighting pattern: \bigcirc Off \blacksquare On \checkmark Blinking $_$ Any state **NOTES:** If you do not press any buttons of the remote controller for 60 seconds, the remote controller display willreturn to the original display.

- **1** Press (b) on the remote controller until only the clock is displayed on the remote controller display.
- **2** Launch the mobile app.
- **3** Sign in with your Email address and password following the screen on the mobile app.
- **4** Press [+] to add a new air conditioner.
- **5** Press down **SEND** on the remote controller for more than 5 seconds.
 - Ln will be displayed on the remote controller display.
- 6 Press 🤄 .
- **7** Select \square i using TEMP. $(\bigotimes \odot)$.
- 8 Press (1).

To the indoor unit will blink.

(Remote controller display)

(Remote controller display)

(Continued)

- **9** Select [Manual mode] on the screen on the mobile app.
- **10** Select the SSID of the W-LAN adapter you are connecting to.
- **11** Input the PIN code written on the W-LAN adapter.
- **12** Select the WLAN Access Point you are connecting to. Input the WLAN Access Point password then press [Connect device].

The setting is complete.

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Button Mode

Manual Mode

Manual mode (For iOS 11 or later)

*Lighting pattern: Off • On Blinking — Any state **NOTES:** If you do not press any buttons of the remote controller for 60 seconds, the remote controller display willreturn to the original display.

- **1** Press (b) on the remote controller until only the clock is displayed on the remote controller display.
- **2** Launch the mobile app.
- **3** Sign in with your Email address and password following the screen on the mobile app.
- **4** Press [+] to add a new air conditioner.
- **5** Press down **SEND** on the remote controller for more than 5 seconds.

Ln will be displayed on the remote controller display.

- 6 Press 🔮 .
- **7** Select \square using TEMP. $(\bigotimes \odot)$.
- 8 Press 🧐 .

🛜 on the indoor unit will blink.

(Remote controller display)

(Remote controller display)

11 Input the SSID and PIN code of the air conditioner written

-	0.2			
In	Input "AP-XXXX-" in upper-case.			
L	ower-case the following 12 characters.			
	AP-XXXX - xxxxxxxxxxxx			
	In upper-case letters In lower-case letters			
	(12 characters)			

• *PIN*

SSID

10 Select [Continue].

on the WLAN label.

PIN code is not available for some models.

12 Select the WLAN Access Point you are connecting to. Input the WLAN Access Point password then press [Connect].

🛜 on the indoor unit will turn on.

The setting is complete.

Manual mode (For iOS 10 or earlier)

*Lighting pattern: Off On Blinking Any state NOTES: If you do not press any buttons of the remote controller for 60 seconds, the remote controller display willreturn to the original display.

- **1** Press (b) on the remote controller until only the clockis displayed on the remote controller display.
- **2** Launch the mobile app.
- **3** Sign in with your Email address and password following the screen on the mobile app.
- **4** Press [+] to add a new air conditioner.
- **5** Press down **SEND** on the remote controller for more than 5 seconds.

Ln will be displayed on the remote controller display.

- **6** Press 🖗 .
- **7** Select \square i using TEMP. $(\bigotimes \odot)$.
- 8 Press 🧐 .

🛜 on the indoor unit will blink.

(Remote controller display)

(Remote controller display)

- **9** Select [Manual mode] on the screen on the mobile app.
- **10** Open [Setting] -> [Wi-fi] by following the instructions on the mobile app. Select the SSID of the air conditioner you are connecting to.
- **11** Input the PIN code written on the W-LAN adapter.
- **12** Select the WLAN Access Point you are connecting to. Input the WLAN Access Point password then press [Connect].

🛜 on the indoor unit will turn on.

The setting is complete.

Connect

XYZ AP

AC123

Button mode (For Android OS, iOS)

*Lighting pattern: Off On Blinking Any state NOTES: If you do not press any buttons of the remote controller for 60 seconds, the remote controller display willreturn to the original display.

- **1** Press (b) on the remote controller until only the clock is displayed on the remote controller display.
- **2** Launch the mobile app.
- **3** Sign in with your Email address and password following the screen on the mobile app.
- **4** Press [+] to add a new air conditioner.
- **5** Select [Button mode] on the screen on the mobile app.
- **6** Press the WPS button on the wireless router that you are connecting to.

Refer to the operating manual of the wireless router for the location of the button and how to press it.

- **7** Press down **SEND** on the remote controller for more than 5 seconds.
 - Ln will be displayed on the remote controller display.

(Remote controller display)

8 Press 🕅 .

9 Select $\mathcal{G}\mathcal{C}$ using $\mathbb{TEMP}(\otimes \otimes)$.

10 Press 🧐 .

🛜 on the indoor unit will blink.

When the W-LAN adapter find a connectable W-LAN access point, the blinking will become slowly.

NOTES: Before proceeding to the next step, be sure to check that the blinking pattern has changed.

11 Press [Register] on the screen on the mobile app to start the connection with the wireless router.

Ln

(Remote controller display)

🛜 on the indoor unit will turn on.

The setting is complete.

2-5 SERVICE PARTS INFORMATION

SERVICE PARTS INFORMATION 2

Inverter Compressor

Check Point 6 : Check Strainer

Strainer normally does not have temperature difference between inlet and outlet as shown in (1), but if there is a difference as shown in (2), there is a possibility of inside clogged. In this case, replace Strainer.

SERVICE PARTS INFORMATION 4

Indoor unit fan motor

Check Point 1 : Check rotation of Fan

 Rotate the fan by hand when operation is off. (Check if fan is caught, dropped off or locked motor)
 ><u>If Fan or Bearing is abnormal, replace it.</u>

Check Point 2 : Check resistance of Indoor unit Fan Motor

 Refer to below. Circuit-test "Vm" and "GND" terminal. (Vm: DC voltage, GND: Earth terminal)
 >If they are short-circuited (below 300 kΩ), replace Indoor unit fan motor and Controller PCB.

Pin number (wire color)	Terminal function (symbol)
1 (Red)	DC voltage(Vm)
2	No function
3	No function
4 (Black)	(GND)
5 (White)	Control voltage (Vcc)
6 (Yellow)	Speed command (Vsp)
7 (Blue)	Feed back (FG)

SERVICE PARTS INFORMATION 5

Outdoor unit fan motor

Check Point 1 : Check rotation of Fan

Rotate the fan by hand when operation is off.
 (Check if fan is caught, dropped off or locked motor)

>>If Fan or Bearing is abnormal, replace it.

Check Point 2 : Check resistance of Outdoor Fan Motor

Refer to below. Circuit-test "Vm" and "GND" terminal.
 (Vm: DC voltage, GND: Earth terminal)
 ><u>If they are short-circuited (below 300 kΩ), replace Outdoor fan motor and Main PCB.</u>

Pin number	Terminal function
(wire color)	(symbol)
	(symbol)
1 (Red)	DC voltage (Vm)
2	No function
3	No function
4 (Black)	Earth terminal (GND)
5 (White)	Control voltage (Vcc)
6 (Yellow)	Speed command (Vsp)
7 (Brown)	Feed back (FG)

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