τόνότομί ΤΑΚΑRΑ SERVICE MANUAL

ROOM AIR CONDITIONER

TAN/TAG-A10HWI(A) TAN/TAG-A13HWI(A) TAN/TAG-A16HWI(A)

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		l la it	INDOOR	OUTDOOR	
		Unit	TAN-A10HWI(A)	TAG-A10HWI(A)	
Cooling Capacity		BTU/h	10,000(2,700-12,000)	_	
Heating Capacity		BTU/h	13,200(2,400-18,000)	_	
Moisture Remova	I	L/h	1.6	_	
		phase	Sir	ngle	
Power source		V	23	30	
		Hz	5	60	
Airflow Method			SIDE VIEW	TOP VIEW	
Air circulation (at	High)	m³/min	Cooling; 9.0 Heating; 11.0	_	
	Input	W	Cooling; 660 Heating; 765	-	
Electrical Data	Running Current	А	Cooling; 2.9 Heating; 3.4	_	
	Starting Current	А	3.4	_	
	· Dent (Flans sizins)	inch	L; Half Union 1/4"	L; 2-way valve 1/4"	
Piping Connection	n Port (Flare piping)	inch	G; Half Union 3/8"	G ; 3-way valve 3/8"	
Pipe Size (Flare p	vining)	inch	L (liquid side) ; 1/4"	L (liquid side) ; 1/4"	
Fipe Size (Fiale)	nping)	inch	G (gas side) ; 3/8"	G (gas side) ; 3/8"	
Drain bass	Inner diameter	mm	14	_	
Drain hose	Length	m	0.6	-	
Power Cord	Length	m	1.4	-	
	Number of core-wire		core-wire/ 1 mm ²	_	
	Height	mm	295	550	
Dimensions	Width	mm	799	780	
	Depth	mm	237	278	
Net Weight		kg	9.1	35	

		Unit	INDOOR	OUTDOOR
			TAN-A10HWI(A)	TAG-A10HWI(A)
	Туре		Cross-flow Fan	Propeller Fan
Air Circulation	Motor Type		DC brushless(8-pole)	DC brushless (8-pole)
	Rated Output	W	30	40
Heat Evenance			Plate fin configur	ation,forced draft
Heat Exchanger			21.2FPI	18.1 FPI
Refrigerant Contr	Refrigerant Control Device		_	Expansion Valve
Refrigerant (R410	DA)	g (oz)	_	1,100(38.8)
Thermostat			Electronic Control	_
Timer			Real time dual ON/OFF 7-hour OFF	_
Air Filter			Mold-proof	_
Parts Provided			 Mounting plate Remote controller Battery (2 pcs.) Remote controller holder Screw cap (2 pcs.) Drain elbow Gum Bushing (2 pcs.) Vibration proof rubber (4 pcs.) 	

 \star Specifications are subject to change without notice.

		11:5:4	INDOOR	OUTDOOR	
		Unit	TAN-A13HWI(A)	TAG-A13HWI(A)	
Cooling Capacity		BTU/h	12,500(2,700-14,100)	_	
Heating Capacity		BTU/h	17,100(2,400-20,700)	_	
Moisture Remova	al	L/h	1.7	_	
		phase	Sin	igle	
Power source		V	23	30	
		Hz	5	0	
Airflow Method			SIDE VIEW	TOP VIEW	
Air circulation (at	High)	m³/min	Cooling ; 9.5 Heating ; 12.5	-	
	Input	W	Cooling ; 885 Heating ; 1,130	_	
Electrical Data	Running Current	А	Cooling; 3.9 Heating; 5.0	_	
	Starting Current	А	5.0	_	
Dining Connectio	n Dort (Flore sizing)	inch	L; Half Union 1/4"	L; 2-way valve 1/4"	
Piping Connectio	n Port (Flare piping)	inch	G; Half Union 3/8"	G ; 3-way valve 3/8"	
Pipe Size (Flare	aining)	inch	L (liquid side) ; 1/4"	L (liquid side) ; 1/4"	
	oping)	inch	G (gas side) ; 3/8"	G (gas side) ; 3/8"	
Drain bass	Inner diameter	mm	14	_	
Drain hose	Length	m	0.6	-	
Power Cord	Length	m	1.4	-	
	Number of core-wire		core-wire/ 1 mm ²	-	
	Height	mm	295	550	
Dimensions	Width	mm	799	780	
	Depth	mm	237	278	
Net Weight		kg	9.1	35	

		Unit	INDOOR	OUTDOOR
			TAN-A13HWI(A)	TAG-A13HWI(A)
	Туре		Cross-flow Fan	Propeller Fan
Air Circulation	Motor Type		DC brushless(8-pole)	DC brushless (8-pole)
	Rated Output	W	30	40
Heat Evenance			Plate fin configur	ation,forced draft
Heat Exchanger			21.2FPI	18.1 FPI
Refrigerant Contr	Refrigerant Control Device		_	Expansion Valve
Refrigerant (R410A)		g (oz)	_	1,100(38.8)
Thermostat			Electronic Control	_
Timer			Real time dual ON/OFF 7-hour OFF	-
Air Filter			Mold-proof	_
Parts Provided			 Mounting plate Remote controller Battery (2 pcs.) Remote controller ho Screw cap (2 pcs.) Drain elbow Gum Bushing (2 pcs.) Vibration proof rubbe)

 \star Specifications are subject to change without notice.

		Unit	INDOOR	OUTDOOR
		Onit	TAN-A16HWI(A)	TAG-A16HWI(A)
Cooling Capacity		BTU/h	16,000(1,700-18,000)	_
Heating Capacity		BTU/h	23,800(1,700-33,400)	_
Moisture Remova	l	L/h	2.8	_
		phase	Sin	gle
Power source		V	23	30
		Hz	5	0
Airflow Method			SIDE VIEW	TOP VIEW
Air circulation (at	High)	m³/min	Cooling; 14.0 Heating; 15.0	_
	Input	W	Cooling ; 1,560 Heating ; 1,800	_
Electrical Data	Running Current	А	Cooling; 6.9 Heating; 7.9	_
	Starting Current	А	8.1	_
Dining Connection	Dort (Flore sising)	inch	L; Half Union 1/4"	L ; 2-way valve 1/4"
Piping Connection	n Port (Flare piping)	inch	G; Half Union 3/8"	G ; 3-way valve 3/8"
Pipe Size (Flare p	vining)	inch	L (liquid side) ; 1/4"	L (liquid side) ; 1/4"
ripe Size (i late p	, ping)	inch	G (gas side) ; 3/8"	G (gas side) ; 3/8"
Drain hose	Inner diameter	mm	14	_
	Length	m	0.6	_
Power Cord	Length	m	2.3	_
	Number of core-wire		core-wire/ 2 mm ²	_
	Height	mm	295	550
Dimensions	Width	mm	799	780
	Depth	mm	237	278
Net Weight		kg	9.5	35

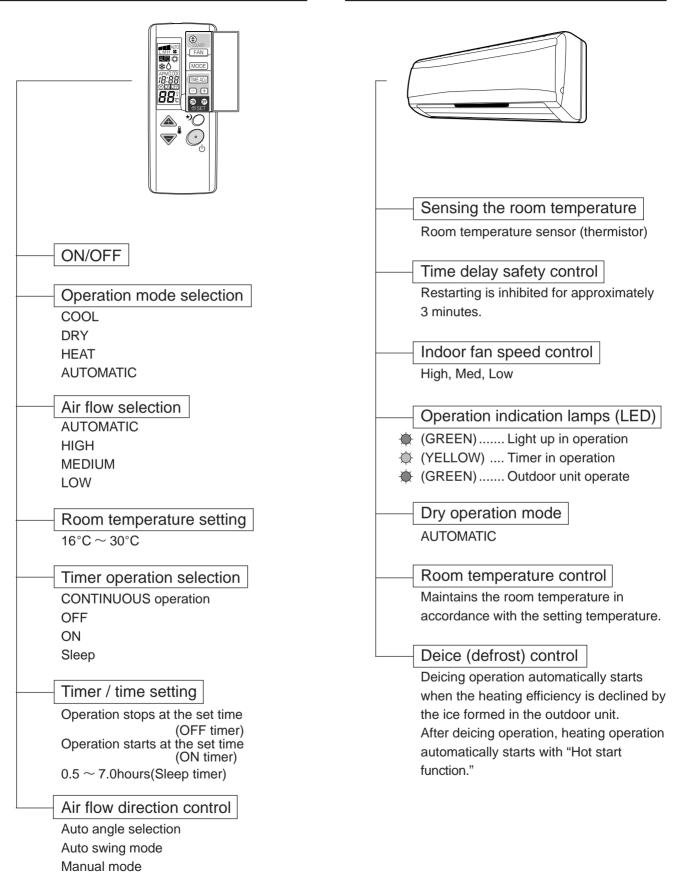
		Unit	INDOOR	OUTDOOR
			TAN-A16HWI(A)	TAG-A16HWI(A)
	Туре		Cross-flow Fan	Propeller Fan
Air Circulation	Motor Type		DC brushless(8-pole)	DC brushless (8-pole)
	Rated Output	W	30	40
Heat Exchanger			Plate fin configur 21.2FPI	ation,forced draft 18.1 FPI
Refrigerant Contro	l Device		_	Expansion Valve
Refrigerant (R410	A)	g (oz)	_	1,180(41.6)
Thermostat			Electronic Control	_
Timer			Real time dual ON/OFF 7-hour OFF	_
Air Filter			Mold-proof –	
Parts Provided			 Mounting plate Remote controller Battery (2 pcs.) Remote controller holder Screw cap (2 pcs.) Drain elbow Photo-Catalytic Anti-Odor filter (2 pcs.) Static,Catechin filter (2 pcs.) Gum Bushing (2 pcs.) 	

 \star Specifications are subject to change without notice.

FUNCTIONS

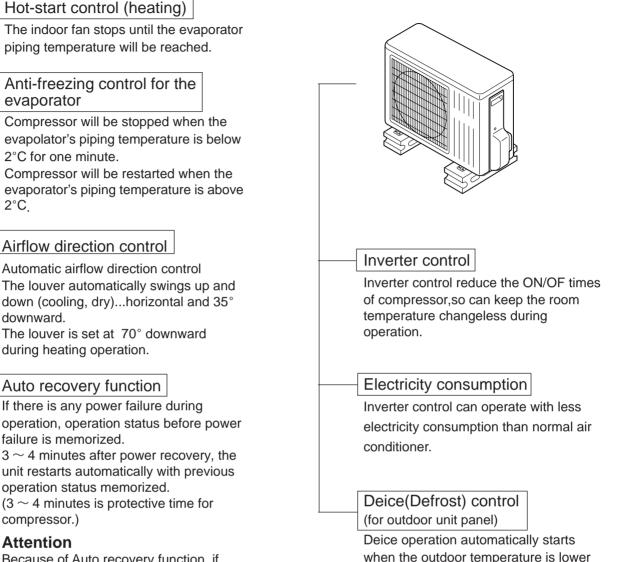
REMOTE-CONTROL TRANSMITTER

INDOOR UNIT



FUNCTIONS

OUTDOOR UNIT



than 2°C and the ice is formed on the

bottom of outdoor unit.

Because of Auto recovery function, if shutting off the power supply during operation, the unit may restart irrespective your intention when turning on the power supply next time. If the unit is not to be used for a long time, shut off the power supply after terminating all operation with remote controller.

evaporator

2°C

downward.

during heating operation.

failure is memorized.

compressor.)

Attention

2°C for one minute.

EMERGENCY AND TEST OPERATION

Emergency Operation

- Use this operation only when the remote controller is out of order or lost.
- When the emergency operation switch is pressed, beep starts once, which means the start of this operation.
- In this operation, the system automatically selects the operation modes, cooling (or heating when available) according to the room temperature, as follows.

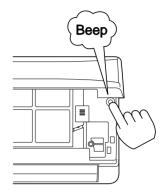
Temperature	Operation mode	Designated temperature	Timer mode	Air flow
ABOVE 23°C	COOLING	26°C	CONTINUOUS	AUTOMATIC
BELOW 23°C	HEATING	23°C	CONTINUOUS	AUTOMATIC

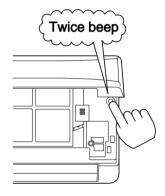
• It is not possible to operate in dry mode.

Test Operation

Test operation switch is same as emergency one.

- Use this operation only for testing the performance of the machine in the condition where the room temperature is less than 16°C.
- Continue to press the test operation switch for more than 5 seconds. After you hear twice beep, release your finger from the switch : the cooling operation starts with the air flow speed "HI."
- If the test operation switch is pressed more than 10 seconds, it doesn't work.
- · After 30 minutes, test operation ends automatically.





HOW TO RELEASE EMERGENCY AND TEST OPERATION

• In case of releasing during those operations, you can either push emergency operation switch once more or apply operation using remote control.

You will hear a beep sound and emergency/ test operation is released.

: Cut "R13" on the PC board.

• If you release the operation by remote control, operation will continue as setting of the remote control automatically.

INTERFERENCE PREVENTION OF SIGNALS FROM THE REMOTE CONTROLLER

When two indoor units used in the same room, interference of the signals may happen. To avoid this, alternative signal model B can be selected by the following. (Ex-factory setting is mode A)

Remote controller side

Indoor unit side

- : Have "J1" on the PC board short-circuited by soldering.
- J1)○ → (



J1

TIMER OPERATION

ON Timer operation

- Press the ON/OFF switch. Right after replacing new batteries, set the present time in advance.
- Set the "ON Time" : Press the "TIME ADJ" button twice.
 Adjust the time with the "∃, □" button.
 Press the "TIME ADJ" button twice. The setting of "ON Time" is completed and the present time appears on the LCD.
- Set the "ON Timer" : Press the Timer fixing button "ON".

OFF Timer operation

- Press the ON/OFF switch. Right after replacing new batteries, set the present time in advance.
- · Set the "OFF Time" : Press the "TIME ADJ" button 3 times.
- Adjust the time with the " \pm , \Box " button.
- Press the "TIME ADJ" button once. The setting of "OFF Time" is completed and the present time appears on the LCD. • Set the "OFF Timer" : Press the Timer fixing button "OFF".

Sleep Timer operation

• Press the "SLEEP" button during the operation.

• Set the operating period by pressing the "SLEEP" button until the period designated appears on the LCD.

Timer Cancellation

- ON/OFF Timer : Press the Timer fixing button "ON"(On Timer) and/or "OFF"(Off Timer) once again.
- Sleep Timer : Press the "SLEEP" button until the operating period on the LCD disappears.

AIRFLOW DIRECTION CONTROL

Vertical adjustment

When ON/OFF switch is pressed, the vertical louver will move to the adequate positions for each operation automatically.

Swing of air flow

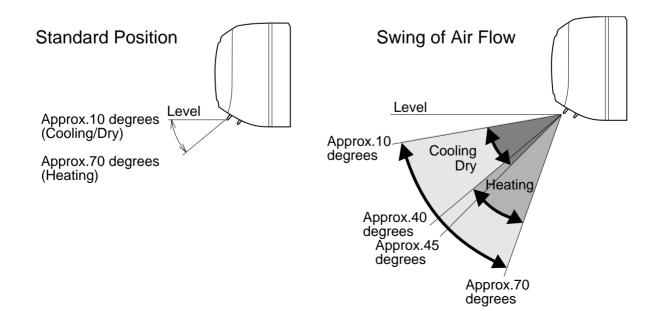
If air flow direction switch is pressed once, the vertical louver will move within the range of figures.

Fixing the flow direction

If air flow direction switch is pressed again, the vertical louver will be fixed and that position is memorized. From the next operation the louver will be set at previous position automatically.

Notes :

- In Swing Mode, the louver automatically moves up and down within the certain range, as the illustration below.
- There is two different ranges of louver swinging; one is of cooling & dry mode operation and the other is of heating operation.



AIRFLOW DIRECTION CONTROL

Horizontal Adjustment | TAN/TAG

TAN/TAG-A16HWI(A)

Swing of Air Flow

The horizontal louver will keep moving steadly right and left if the horizontal louver button is pressed once.

Fixing the Flow Direction

The horizontal louver will come to a halt if the horizontal louver button is pressed once again.

NOTICE :

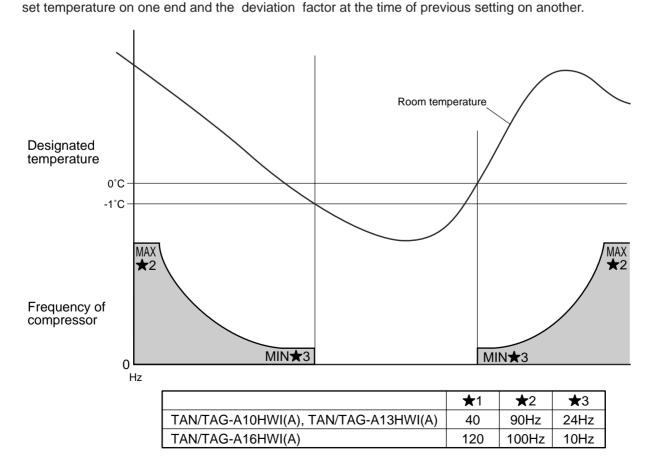
- Dew drops may appear at the outlet under high humidity(e.g.during rainy season) if the system is operated with the horizontal louver faced to the extreme right or left.
- Use the wireless remote control unit without fail to change the angle of the horizontal louver. The horizontal louver may move out of the normal range if forced by hands.

TIME DELAY SAFETY CONTROL FUNCTION - FOR PROTECTION OF COMPRESSOR

- Compressor will not restart, in any operation modes, for 3 minutes after its stop.
- Compressor does not stop during the first 6 minutes of its operation even if the room temperature reaches to the designated temperature, except changing setting temperature.

COOLING MODE OPERATION

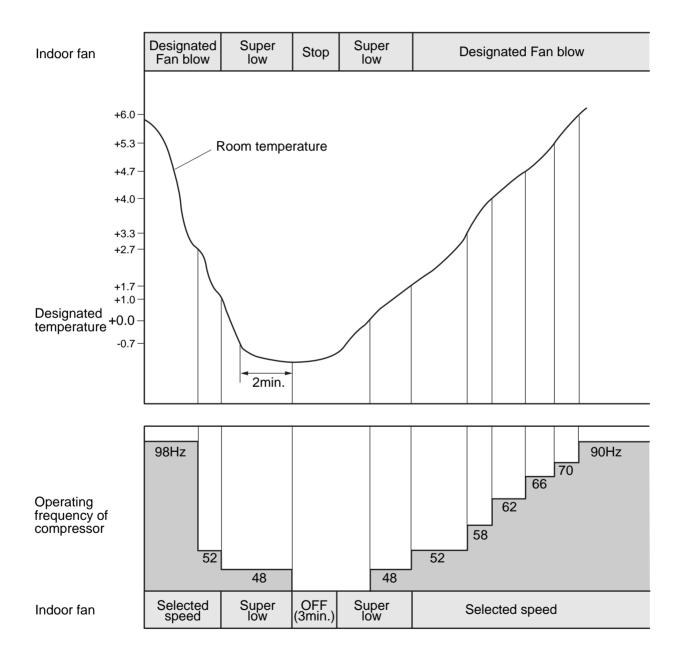
- The compressor will stop when operational frequency reached the minimum frequency and that condition has been kept for 6 minutes and the room temperature becomes 1°C lower than it was set.
- The compressor will re-start when room temperature becomes 0°C higher than it was set.
- The operational frequency will be set every ★ 1 seconds of operation.
 The operational frequency setting will be calculated based on the deviation of the room temperature and the



TAN/TAG-A10HWI(A), TAN/TAG-A13HWI(A)

DRY MODE OPERATION

- Compressor stops when the room temperature fall to 0.3°C lower than the designated temperature continuously for 2 minutes.
- Compressor restarts when room temperature rises to the designated temperature.
- The operating frequency of the compressor is determined according to the room temperature (see the diagram below).

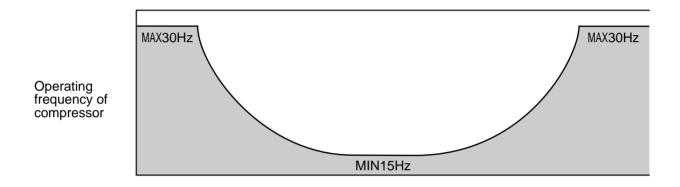


OPERATION DETAILS

TAN/TAG-A16HWI(A)

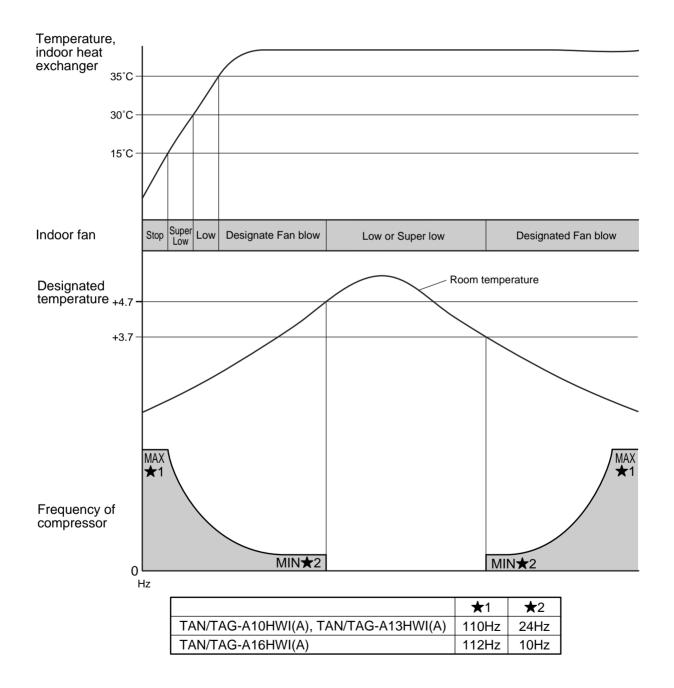
DRY MODE OPERATION

- During dry mode operation, both motors (TAN,TAG) run proportionally according to the temperatures (indoor, outdoor).
- The compressor runs continuously while unit is operating. (see the diagram below)



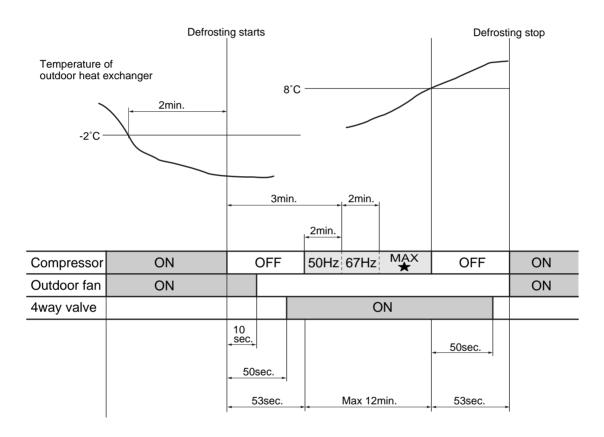
HEATING MODE OPERATION

- The compressor will stop when operational frequency reached the minimum frequency and that condition has been kept for 6 minutes and the room temperature becomes 4.7°C higher than it was set.
- The compressor will re-start when room temperature becomes 3.7°C higher than it was set.
- The operational frequency will be set every 80 seconds of operation. The operational frequency setting will be calculated based on the deviation of the room temperature and the set temperature on one end and the deviation factor at the time of previous setting on another.



DEFROSTING OPERATION(FOR OUTDOOR UNIT HEAT EXCHANGER)

- Defrosting operation is controlled by the temperature of outdoor heat exchanger sensed by the thermistor and the timer switch.
- Defrosting operation starts when the both of the following conditions are met at the same time.
 - a) 40 minutes' of continuous run of the compressor after the start of heating operation or after the completion of previous defrosting operation.
 - b) the temperature of the outdoor heat exchanger stays lower than -2°C continuously for two minutes.
- Defrosting operating is called off if either of the following conditions is met.
 - a) The temperature of outdoor heat exchanger rises to 8°C while 4-way-valve is ON.
 - b) 12 minutes has passed since compressor turned ON.



	*
TAN/TAG-A10HWI(A), TAN/TAG-A13HWI(A)	90Hz
TAN/TAG-A16HWI(A)	86Hz

FOR YOUR SAFETY USE

TAN : indoor unit TAG : outdoor unit

For the safety and proper use and handling of the product, please read and follow the instructions carefully. The meaning of the marks below are as follows.

	Danger	Improper use will cause the significant risk of death or serious injury of the user.
\triangle	Warning	Improper use may cause the risk of death or serious injury of the user.

Please refer the marks below.

	Caution		High Voltage			Off the Plug		\bigcirc	Prohibited
0	Strict enforcem	nent		Connect t	he earth	ning cable		Hig	h Temperatare

	\land Danger	
	Be sure to take off the plug when servicing. It may cause the risk of electric shock.	
	If leakage of refrigerant occur in the installation, ventilate a room. If the leaked refrigerant is exposed fire, poisonous gas may be generated.	0
_	Boosting capacitor make the control box assembly (TAG unit) high voltage. Make the capacitor discharge enough when servicing. Otherwise will be struck by electricity.	
	Never remodel appliance. Use designated parts or accessories to avoid accidents.	0
Check Point	In case of gas leakage, not only refill the required amount of the refrigerant gas but also find out the gas leakage point and mend it. If the service work has to be suspended before mending the leakage points, be sure to collect the refrigerant gas in the outdoor unit by using pump then fasten the service ports to avoid any further leakage. Poisonous gas may be generated when the leaked refrigerant is exposed to fire.	0
-	Clean the pins of the plug and insert the plug completely into the outlet.	0
-	Be sure to change the cable if it is damaged. Do not use damaged cable.	0
-	Do not use power supply cord extended or connected in halfway.	\bigcirc
I	▲ Warning	
Check	Be sure to put the units to earthing works.	ļ
Point	Be sure to check the insulated resistance, more than 1M Ω .)

^{*} The combinations of three LED indicators (ON/Flashing/OFF) provide the self-diagnosis information as most of them shown in the trouble shooting guide.

[Note1] Discharge electricity of the capacitor by making short circuit firstly. Then check the capacitor by tester. Be sure to set up the tester for the measurement of bigger resistance.

TAN/TAG-A10HWI(A), TAN/TAG-A13HWI(A)

INDICATION LAMP

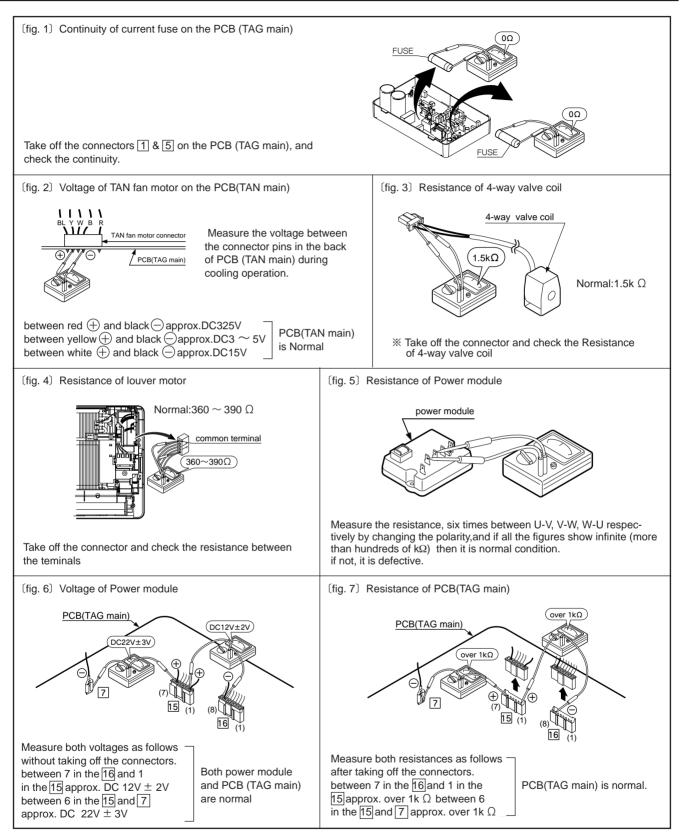
Micro computer self-diagnose the points of the troubles and inform it by the combination of the status (On, Flush, or Off) of three lamp indicators on the front panel of the indoor unit.

INDIC POWER (green)	TIMER (yellow)	AMP OPERATION (green)	ALARM INDICATION TIME	APPEARANCE, PORTION, PARTS SEEMED WRONG		METHOD OF CHECK (press the ON/OFF button of remote controller in case of reset)
Ċ OFF TAN, TAG	⊖ OFF G do not w	 ○ OFF ork at all 	_	-	POWER SUPPLY REMOTE CONTROL FUSE(3.15A) TAN TERMINAL BLOCK PCB (RECEIVER & DISPLAY) PCB (TAN MAIN)	check the plug inserted into the outlet and the power supply emergency operation (display of remote controller is faint or not) check the electric continuity by tester check the electric continuity by tester emergency operation other than described above
		OFF ON FLASHING OFF	alarm indication appears immediately when press operation switch	short or open of sensor, temperature or incomplete insertion of connector	SENSOR, TEMP. ROOM SENSOR, TEMP. HEAT EXCHANGER SENSOR, TEMP. DEFROST SENSOR, TEMP. DISCHARGE	check the resistance by tester [see table 1] check the resistance by tester [see table 2] check the resistance by tester [see table 2] check the resistance by tester [see table 3]
and after	G don't wo 20 sec., o ashing (2 r ower on)	peration	normal lamp indication turn alarm when something is wrong with TAN, TAG	error of transmission	MIS-WIRING (TAG-TAN CONNECTING CABLE) OR RARE CONTACT CURRENT FUSE . (25A) FUSING (ON THE PCB (TAG MAIN))	check the wiring connection and rare contact check the electric continuity between 1 and 5 in connector by tester.[see fig. 1] (if it is no continuity, both PCB (TAG main) and power module should be replaced.)
FLASHING	\Diamond off	FLASHING	, -	CT disconnection	CUTTING OFF CT	change the PCB (TAG main)
30 ~ 40 i compress	TLASHING min. later a sor start, th ashing and running	ifter e yellow		sensor discharge operate because temperature of discharge tube beyond 120°C, or sensor discharge is bad quality	GAS LEAKAGE VALVE, SERVICE IS CLOSED PIPE SENSOR, TEMP. DISCHARGE	check the point of leakage (discharge temperature rise in case of small leakage), measure the pressure of compressor during fixed operation (operation frequency 58 Hz) check the valve by eyes check by eyes check the resistance by tester [see table 3]
€ FLASHING	-C FLASHING	🔆 OFF	once stop running with power lamp lighting when	protective action against excessive AC current detection	UNREASONABLE OPERATION UNDER OVERLOAD MOMENTARY STOP OF POWER (IN CASE OF LIGHTNING) DROP OF POWER VOLTAGE	check the place of installation (blockage of air inlet & outlet of TAN, TAG) check the excessive gas check the movement by reoperation check the power voltage (230V)
	-∰ FLASHING Or - ○ OFF		something is wrong with TAN, TAG, and start running again after 3 ~ 20 min. later after that in case of reoccurrence, alarm	protective action against excessive DC current detection or abnormal revolution of	UNREASONABLE OPERATION UNDER OVERLOAD MOMENTARY STOP OF POWER (IN CASE OF LIGHTNING) DROP OF POWER VOLTAGE PCB (TAG MAIN)	check the place of installation (blockage of air inlet & outlet of TAN, TAG) check the excessive gas check the movement by reoperation check the power voltage (230V)
in case of after a few all lamps a	FLASHING heating op v minutes c are flashing	eration, operation, g and	indication appears	in case of heating operation, a rise of temperature (above 58°C) of RC heat exchanger or	ACCIDENT OF POWER MODULE COMPRESSOR LOCKING FILTER IS CHOKED SENSOR, TEMP. HEAT EXCHANGER PCB (TAN MAIN)	See Flow Chart (P19) check by eyes and clean it check the resistance by tester [see table 2] other than described above
TAN, TAG	stop runn	ing	15 sec. later after main	less quantity of RC blow		15 sec. later after main power on, if alarm indication appears, PCB
C FLASHING	∲ on	- FLASHING	power on, or 60 sec. later after start running through remote controller,	accident of controller	PCB (TAN MAIN)	(TAN main) should be replaced 60 sec. later after start running through remote controller, if alarm
			alarm indication appears $40 \sim 70$ sec. later after start running, alarm indication appears		FAN MOTOR (TAG)	indication appears, PCB (TAG main) should be replaced check the current fuse 250V3.15A on the PCB (TAG main) by test if it is burnt down fan motor (TAG) is defective if not, fan motor(TAG) or PCB (TAG main) is defective
OFF	ф оn	- 💭 FLASHING	90 sec. later after start running, alarm indication appears	accident of fan motor	FAN MOTOR (TAN)	check the current fuse (1A) on the wiring (red) for fan motor (TAN) by tester if the current fuse is cut, fan motor(TAN) is defective if not, fan motor(TAN) or PCB (TAN main) is defective check the power voltage (230V) check the voltage of fan motor [see fig.2]
_	_	-	_	not cool down not warm up	GAS LEAKAGE SENSOR, TEMP. ROOM SENSOR, TEMP. HEAT EXCHANGER 4-WAY VALVE SHORT CYCLE (INSUFFICIENT AIR CIRCULATION)	check the point of leakage measure the pressure of compressor during fixed operation (operation frequency 58 Hz) check the resistance by tester [see table 1] check the resistance by tester [see table 2] check the resistance by tester [see fig.3] check the blockage of air inlet & outlet of TAN, TAG
_	_	_	_	water leakage	DRAINAGE	check the drain hose by eyes (it might be folded or choked) check the TAN whether lean or not
_	_	_	_	nasty smell	FILTER IS CHOKED NO USE FOR A LONG TIME NASTY SMELL (CIGARETTE, FURNITURE, ETC.)	check by eyes and clean it use deodorizer
				louver doesn' t work	LOUVER MOTOR	check the resistance by tester [see fig.4]

 $\% \mbox{In this table TAN}$ means indoor unit and TAG means outdoor unit.

TAN/TAG-A10HWI(A), TAN/TAG-A13HWI(A)

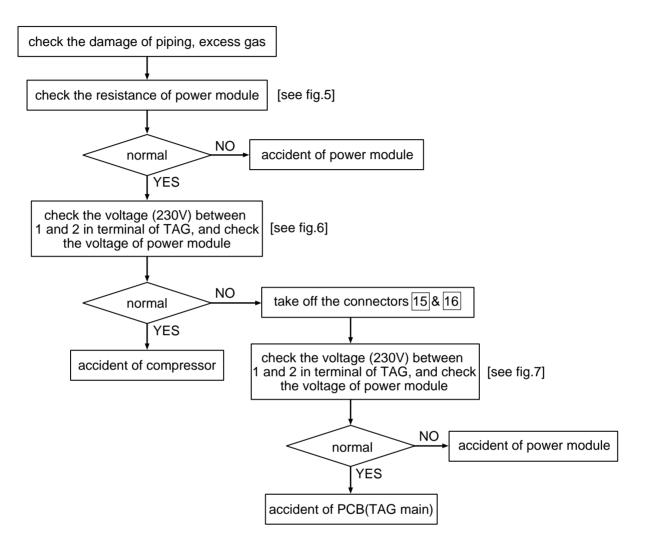
CHECK A FOLLOWING STEPS



TAN/TAG-A10HWI(A), TAN/TAG-A13HWI(A)

METHOD OF CHECK DC current detection and in case of irregular work of compressor

Flow Chart



TAN/TAG-A10HWI(A), TAN/TAG-A13HWI(A)

ELECTRIC CHARACTER

[table 1] Sensor, temp. room

Temp. (°C)	Resistance (k Ω)
10	47
15	37
20	29
25	23
30	18
35	15

[table 2] Sensor, temp. defrost Sense Sens

Temp. (°C)

0

5 10

15

20 25

30

35

			ιαυ
sor,	temp.	outdoor	
sor,	temp.	heat exchanger	

Resistance (k Ω)

31 24

19

15 12

10

8 7 [table 3] Sensor, temp. discharge

Temp. (°C)	Resistance (k Ω)
10	1,000
20	600
35	300
40	250
50	160
80	50

DISPLAY OF ERRORS IN THE PAST

· Push emergency operation switch and hold for more than 10 seconds while unit is not operated and release the switch when you hear three beeps.

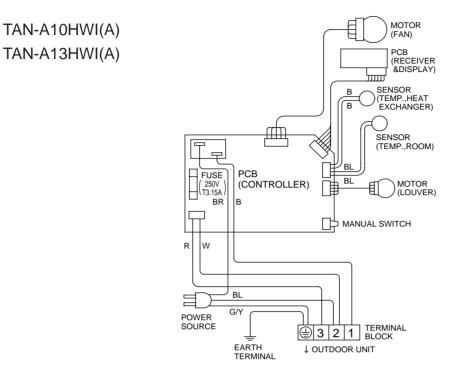
You will see the latest error by indication lamp.

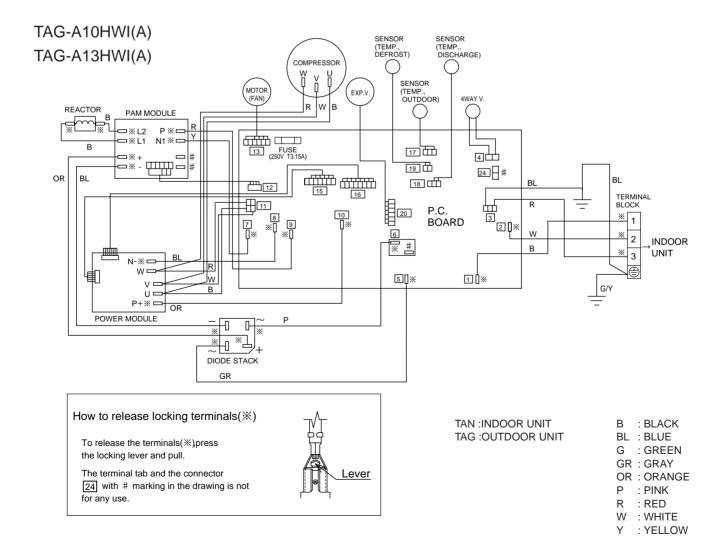
Further pushing of the switch will make the error indication by reversing cycle up to four latest errors in the past. At any stage, the error indication will disappear after 30 seconds.

Hold switch for more than 10 seconds	Three beeps	The latest error indication
Another push	Two beeps	The second latest error indication
Another push	Three beeps	The third latest error indication
Another push	Four beeps	The fourth error indication
Another push	One beeps	Indication lamp goes off

TAN/TAG-A10HWI(A), TAN/TAG-A13HWI(A)

WIRING DIAGRAM





TAN/TAG-A16HWI(A)

INDICATION LAMP

Micro computer self-diagnose the points of the troubles and inform it by the combination of the status (On, Flush, or Off) of three lamp indicators on the front panel of the indoor unit.

INDIC POWER (green)	TIMER (yellow)	AMP OPERATION (green)	ALARM INDICATION TIME		CE, PORTION, PARTS EMED WRONG	METHOD OF CHECK (press the ON/OFF button of remote controller in case of reset)
َنَ OFF TAN, T/	승 OFF AG not wo		_	_	POWER SUPPLY REMOTE CONTROL [FUSE(3.15A)] TAN TERMINAL BLOCK PCB (RECEIVER & DISPLAY) PCB (TAN MAIN)]	check the plug inserted into the outlet and the power supply emergency operation (display of remote controller is faint or not) check the electric continuity by tester check the electric continuity by tester emergency operation other than described above
FLASHING	♦ ON ♦ ON	C OFF C ON C OFF C OFF C OFF C ON	alarm indication appears immediately when press thë operation switch	short or open of sensor, temperature or incomplete insertion of connector	SENSOR, TEMP. ROOM SENSOR, TEMP. HEAT EXCHANGER SENSOR, TEMP. DEFROST SENSOR, TEMP. DISCHARGE SENSOR, TEMP. OUTDOOR SENSOR, TEMP. POWER MODULE	check the resistance by tester [see table 1] check the resistance by tester [see table 2] check the resistance by tester [see table 2] check the resistance by tester [see table 3] check the resistance by tester [see table 2] take off the connector [f6], and check the resistance between 3 - 4 in the connector [see table 4][see fig. 1]
TAN, TAO and after lamp is fla case of po	G don't wor 20 sec., o ashing (2 n ower on)	peration nin. in	normal lamp indication turn alarm when something is wrong with TAN, TAG	error of transmission	MIS-WIRING (TAG-RC CONNECTING CABLE) OR RARE CONTACT CURRENT FUSE . (25A) FUSING (ON THE PCB (TAG MAIN))	check the wiring connection and rare contact check the electric continuity between 1 and 5 in connector by tester.[see fig. 2] (if it is no continuity, both PCB (TAG main) and power module should be replaced.)
- 💭 FLASHING	🔆 OFF	- K. FLASHING		CT disconnection	CUTTING OFF CT	change the PCB (TAG main)
30 ~ 40 compress		ifter e yellow TAN,		sensor discharge operate because temperature of discharge tube beyond 120°C, or sensor discharge is bad quality protective action against excess current AC current	GAS LEAKAGE VALVE, SERVICE IS CLOSED PIPE SENSOR, TEMP. DISCHARGE MOMENTARY STOP OF POWER (IN CASE OF LIGHTNING)	check the point of leakage (discharge temperature rise in case of small leakage), measure the pressure of compressor during fixed operation (operation frequency 58 Hz) check the valve by eyes check by eyes check the resistance by tester [see table 3] check the movement by reoperation
JUL (FLASHING	, FLASHING	`.,.<` UFF		detection	DROP OF POWER VOLTAGE	check the power voltage (230V) check the place of installation (blockage of air inlet & outlet of TAN,
-₩D: FLASHING -₩D: FLASHING	or		once stop running with power lamp lighting when something is wrong with TAN, TAG, and start	protective action against excess current DC current detection or abnormal revolution of compressor	UNDER OVERLOAD MOMENTARY STOP OF POWER (IN CASE OF LIGHTNING) DROP OF POWER VOLTAGE PCB (TAG MAIN) ACCIDENT OF POWER MODULE	TAG) check the excess gas check the movement by reoperation check the power voltage (230V)
÷ on	- 🎝 Flashing	-XC: FLASHING	running again after $3 \sim 20$ min. later after that in case of reoccurrence, alarm indication appears	rise of temperature (above110°C) of power module	COMPRESSOR LOCKING SHORT CYCLE (INSUFFICIENT AIR CIRCULATION) UNREASONABLE OPERATION	check the place of installation (blockage of air inlet & outlet of TAN,TAG) take off the connector [16], and check the resistance between 3-4 in the connector [see fig. 1]
ф ол	승 off	FLASHING		excess voltage(DC)	PAM-MODULE PCB (TAG MAIN)	operate after taking off the connector [12] if the compressor works well over 3 minutes, PAM-MODULE should be replaced if the compressor stops running after a few seconds, PCB(TAG main) should be replaced
In case of	heating op	eration,		in case of heating operation, a rise of temperature (above 62°C)	FILTER IS CHOKED	check by eyes and clean it check the resistance by tester [see table 2]
after a few all lamps a TAN, TAG		and		of RC heat exchanger or less quantity of RC blow	PCB (TAN MAIN)	other than described above
FLASHING		- Tashing	15 sec. later after main power on, or 60 sec. later after start running	accident of controller	PCB (TAN MAIN)	15 sec. later after main power on, if alarm indication appears, PCB (TAN main) should be replaced
			through remote controller, alarm indication appears $40 \sim 70$ sec. later after		PCB (TAG MAIN)	60 sec. later after start running through remote controller, if alarm indication appears, PCB (TAG main) should be replaced
213. ore	×~~		start running, alarm indication appears		FAN MOTOR (TAG)	check the rotation of fan motor (TAG)
○ OFF	₩ 0N	-∰∑ FLASHING	90 sec. later after start running, alarm indication appears	accident of fan motor	FAN MOTOR (TAN)	check the current fuse (1A) on the wiring (red) for fan motor (TAN) by tester check the power voltage (230V) check the voltage of fan motor [see fig.3]

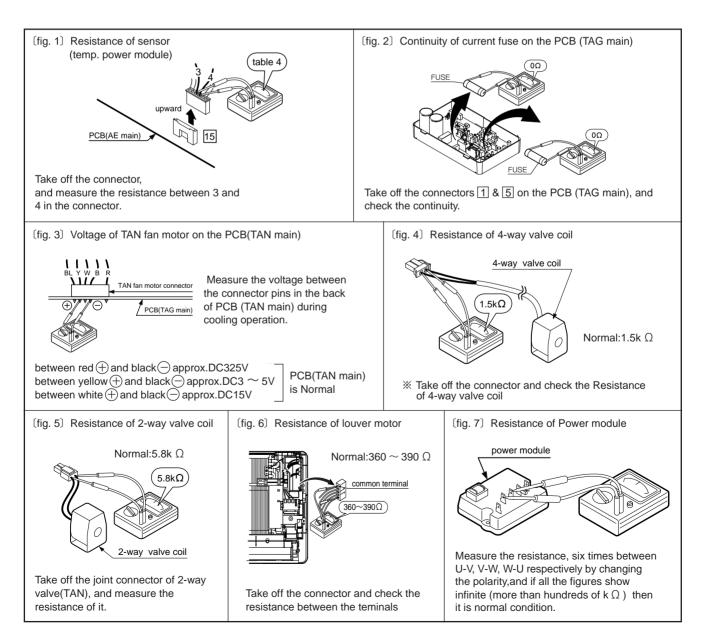
TAN/TAG-A16HWI(A)

INDICATION LAMP

					GAS LEAKAGE	check the point of leakage measure the pressure of compressor during fixed operation (operation frequency 58 Hz)
				not cool down	SENSOR, TEMP. ROOM	check the resistance by tester [see table 1]
_	_	_	_	not warm up	SENSOR, TEMP. HEAT EXCHANGER	check the resistance by tester [see table 2]
					4-WAY VALVE	check the resistance by tester [see fig.4]
					SHORT CYCLE (INSUFFICIENT AIR CIRCULATION)	check the blockage of air inlet & outlet of TAN, TAG
				water leakage	DRAINAGE	check the drain hose by eyes (it might be folded or choked)
		_	_	water leakaye	MIS-INSTALLATION	check the TAN whether lean or not
_	-	-	-	in case of dry, not dehumidify	2-WAY VALVE(TAN)	check the resistance of coil (2-way valve) by tester (in case of dry operation) [see fig.5]
					FILTER IS CHOKED	check by eyes and clean it
-	_	_	_	nasty smell	NO USE FOR A LONG TIME	
					NASTY SMELL (CIGARETTE, FURNITURE, ETC.)	use deodorizer
_		_	_	louver doesn' t work	LOUVER MOTOR	check the resistance by tester [see fig.6]

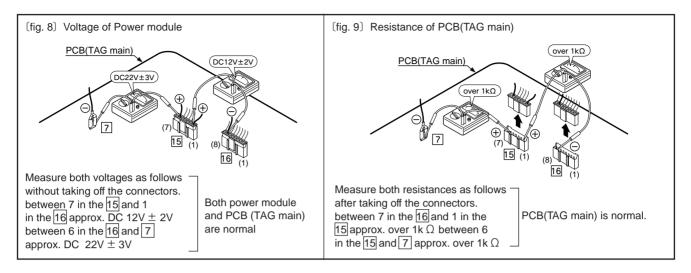
 $\% \, \text{In}$ this table TAN means indoor unit and TAG means outdoor unit.

CHECK A FOLLOWING STEPS



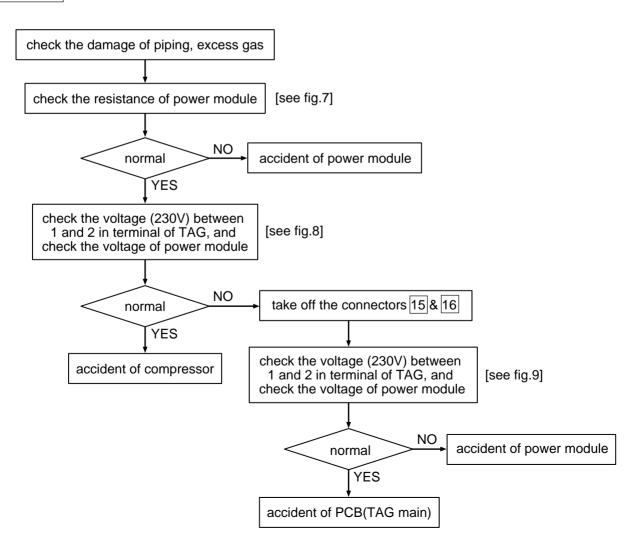
TAN/TAG-A16HWI(A)

CHECK A FOLLOWING STEPS



METHOD OF CHECK DC current detection and in case of irregular work of compressor

Flow Chart



TAN/TAG-A16HWI(A)

ELECTRIC CHARACTER

[table 1] Sensor, temp. room

Temp. (°C)	Resistance (k Ω)
10	47
15	37
20	29
25	23
30	18
35	15

(table 2) Sensor, temp. defrost Sensor, temp. outdoor Sensor, temp. heat exchanger

Temp. (°C)	Resistance (k Ω)
0	31
5	24
10	19
15	15
20	12
25	10

8

30

35

[table 3] Sensor, temp. discharge

Temp. (°C)	Resistance (k Ω)
10	1,000
20	600
35	300
40	250
50	160
80	50

[table 4] Sensor, temp. power module

Temp. (°C)	Resistance (k Ω)
10	201
30	80
50	35
70	17
90	9
110	5

DISPLAY OF ERRORS IN THE PAST

• Push emergency operation switch and hold for more than 10 seconds while unit is not operated and release the switch when you hear three beeps.

You will see the latest error by indication lamp.

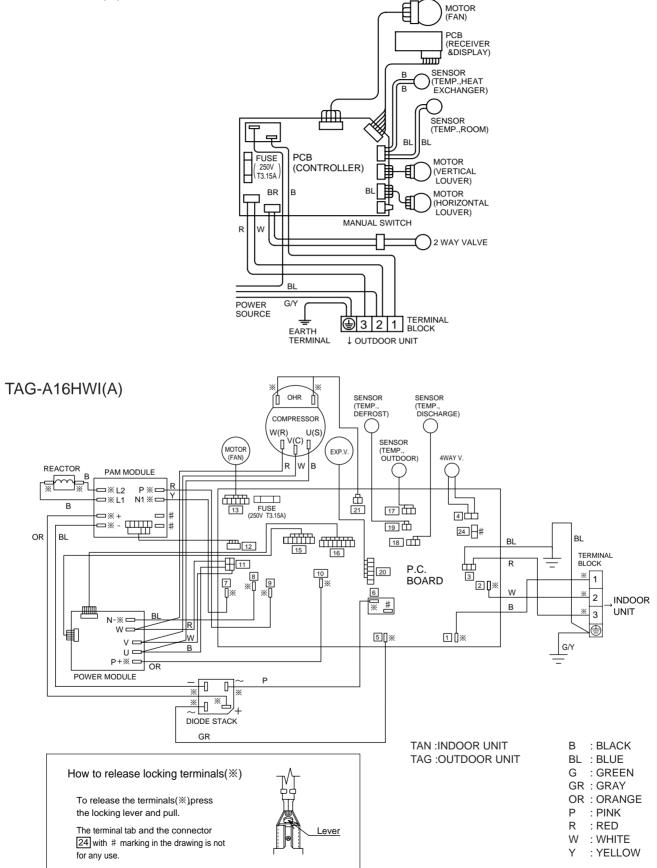
Further pushing of the switch will make the error indication by reversing cycle up to four latest errors in the past. At any stage, the error indication will disappear after 30 seconds.

Hold switch for more than 10 seconds	Three beeps	The latest error indication
Another push	Two beeps	The second latest error indication
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Another push	Four beeps	The fourth error indication
Another push	One beeps	Indication lamp goes off

TAN/TAG-A16HWI(A)

WIRING DIAGRAM





REMARKS FOR GAS PRESSURE CHECK AND CHARGING

Gas pressure is to be measured at COMPULSORY COOLING OPERATION for cooling or EMERGENCY OPERATION for heating. (It is operated for 30 minutes at 58Hz fixed frequency.)

If you find substantial diffrence in performance compared with PERFORMANCE CURVE as shown next, recharge the refrigerant.

(In order to avoid excessive charging, purge all the remaining refrigerant first and then evacuate the unit completely with vacuum pump and finally apply rated volume charging of refrigerant.)

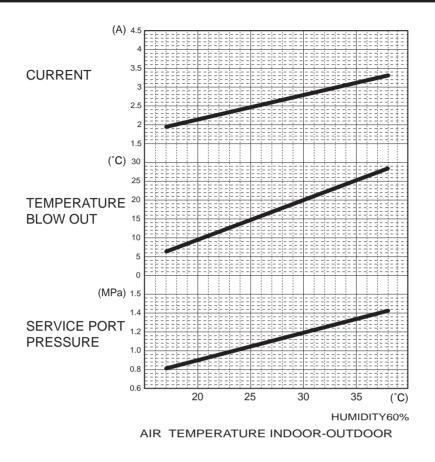
Charging of refrigerant should be done by cooling operation, because the pressure at service valve will be too high at heating cycle, then the heating performance characteristics must be checked by restarting of heating operation.

Diping size	Liquid side	6.35mm
Piping size	Gas side	9.52mm
Max. tube length		15m
Max. height difference		10m

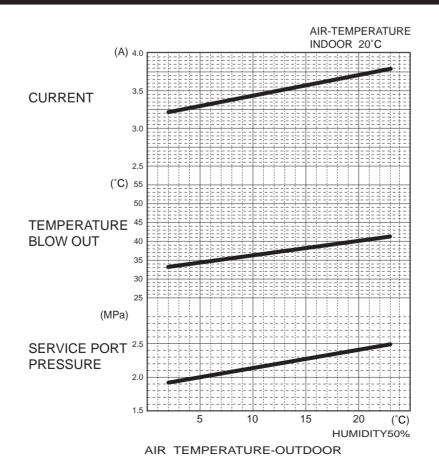
PERFORMANCE CURVE DIAGRAM

TAN/TAG-A10HWI(A)

COOLING



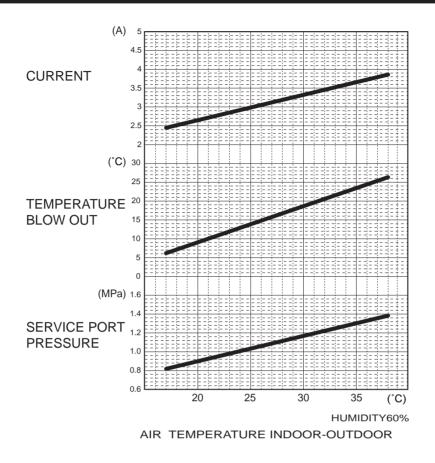
HEATING



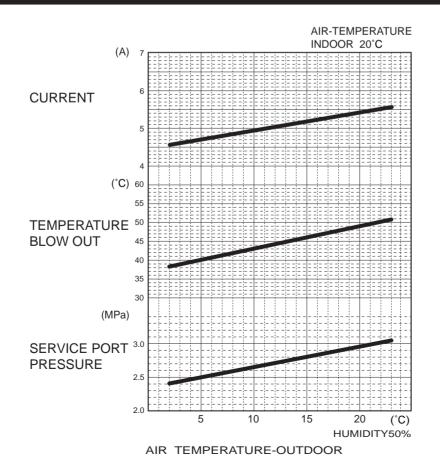
PERFORMANCE CURVE DIAGRAM

TAN/TAG-A13HWI(A)

COOLING



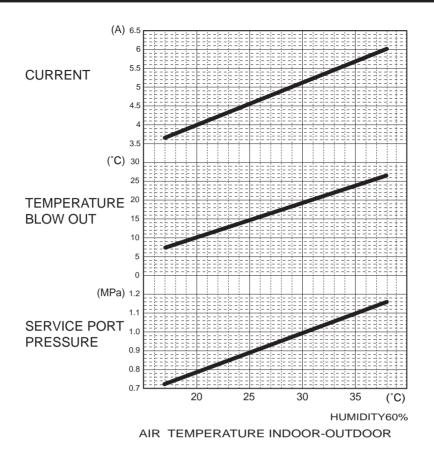
HEATING



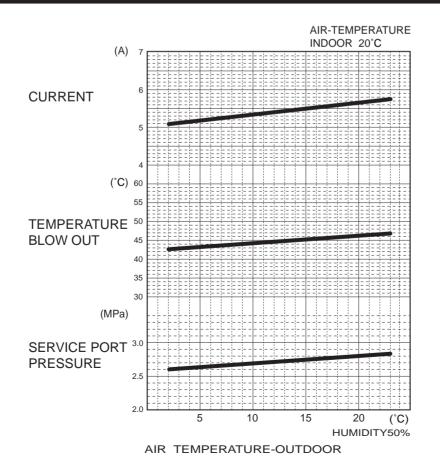
PERFORMANCE CURVE DIAGRAM

TAN/TAG-A16HWI(A)

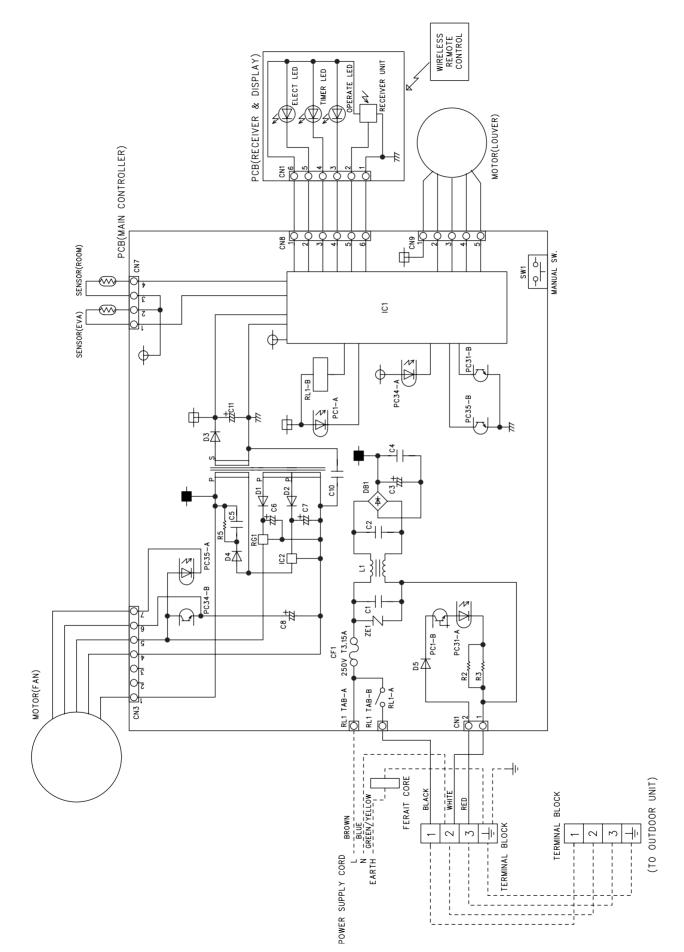
COOLING



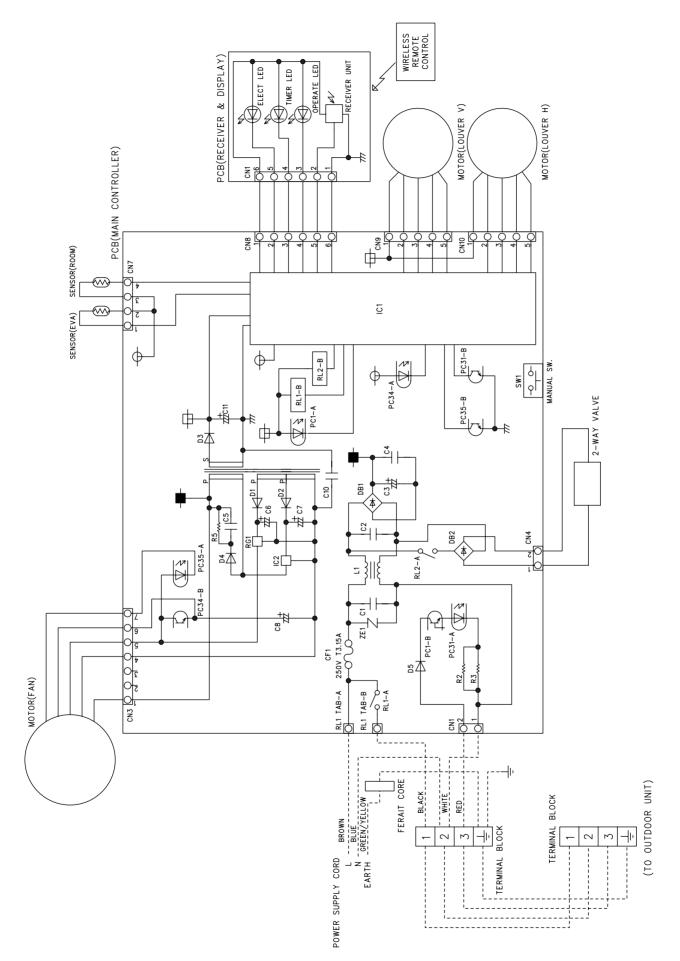
HEATING



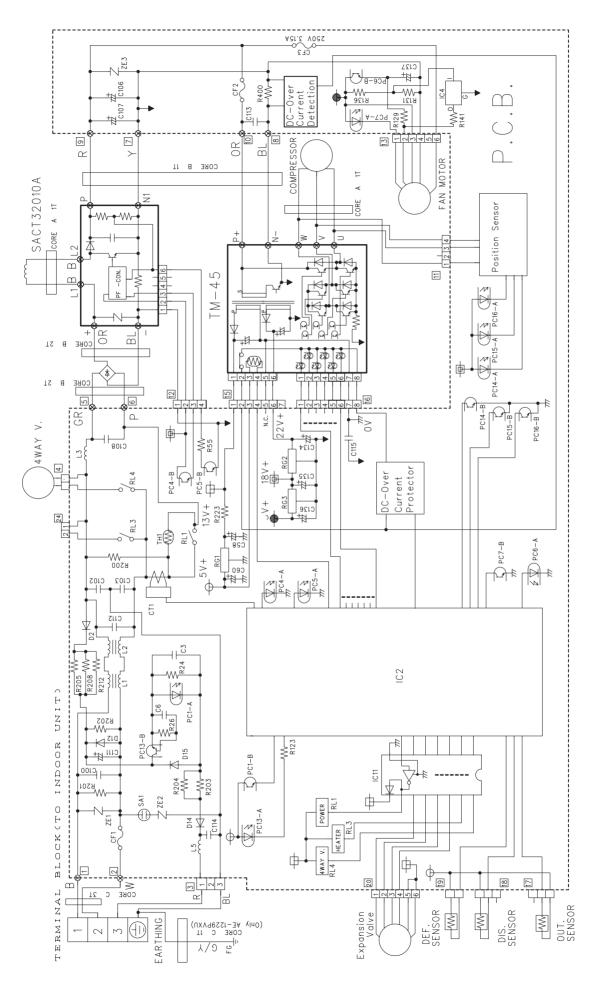
TAN-A10HWI(A), TAN-A13HWI(A)



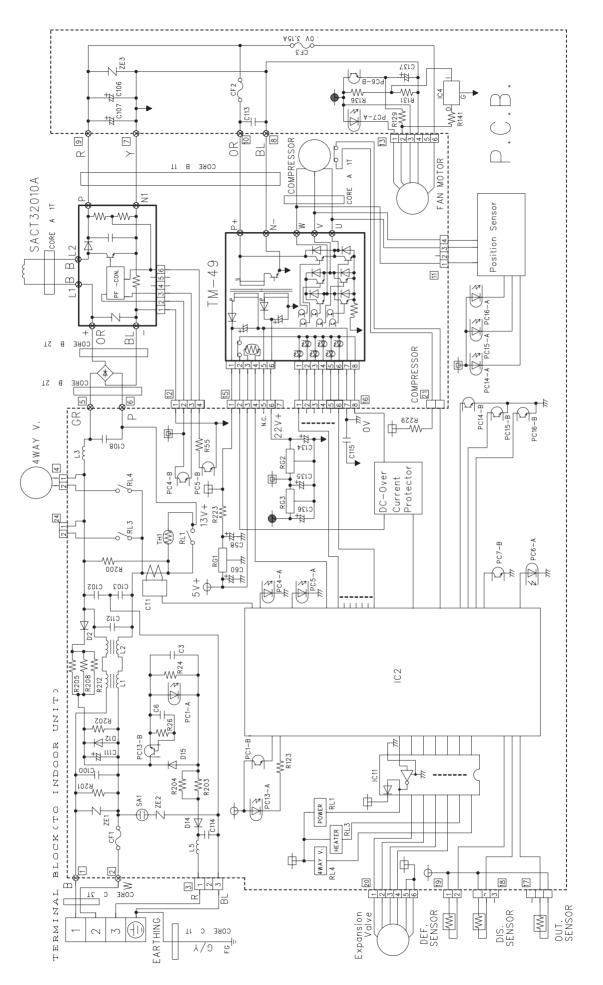
TAN-A16HWI(A)



TAG-A10HWI(A), TAG-A13HWI(A)

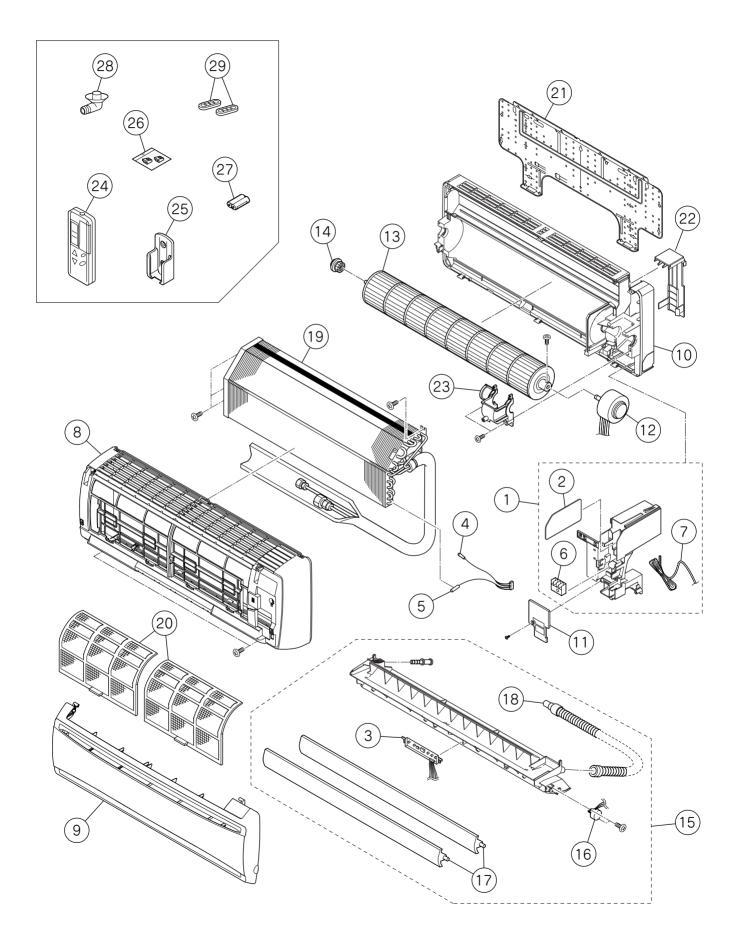


TAG-A16HWI(A)

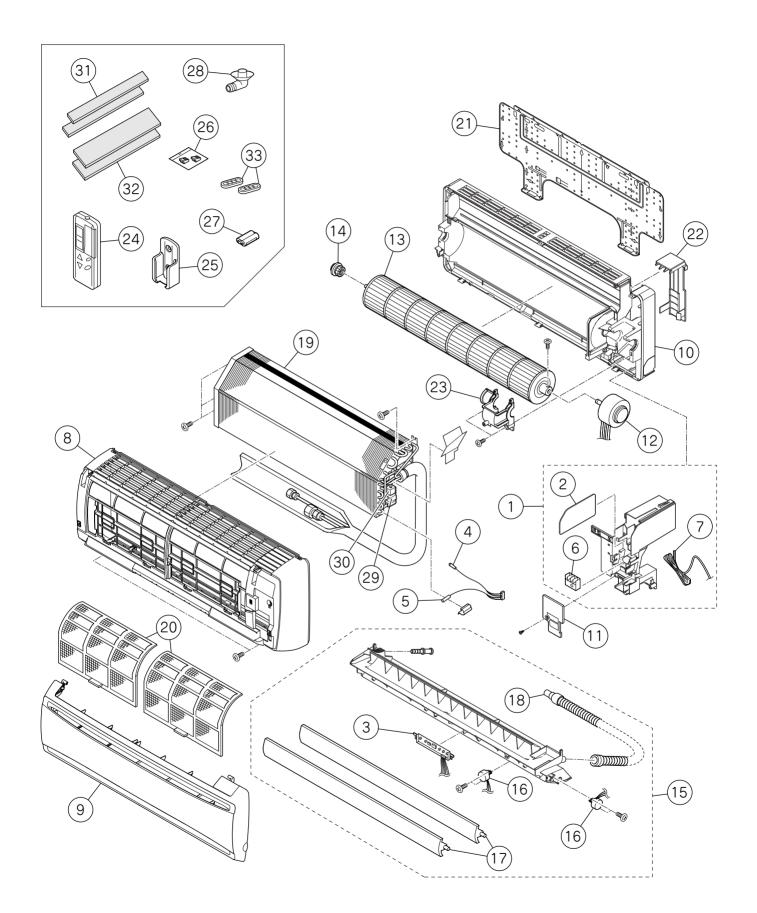


EXPLODED VIEW (INDOOR UNIT)

TAN-A10HWI(A) TAN-A13HWI(A)

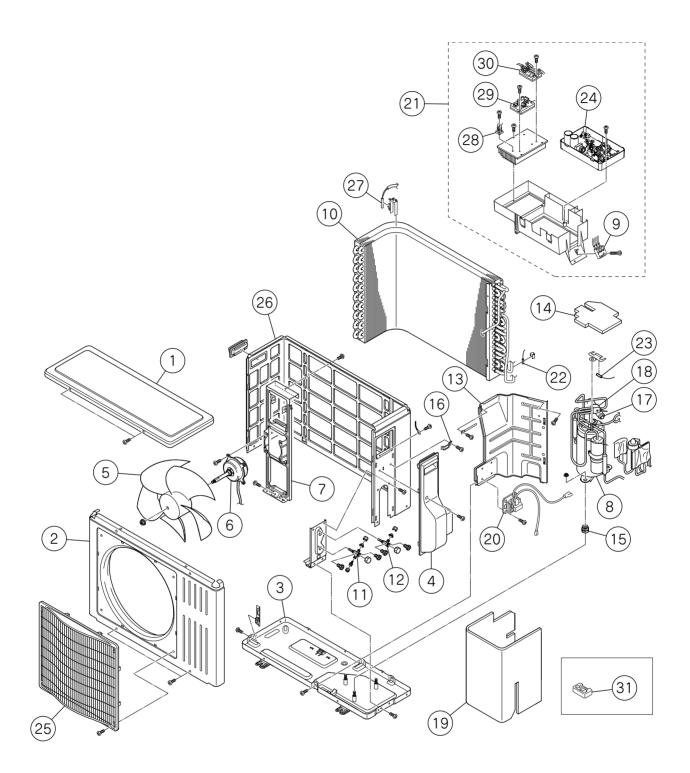


TAN-A16HWI(A)



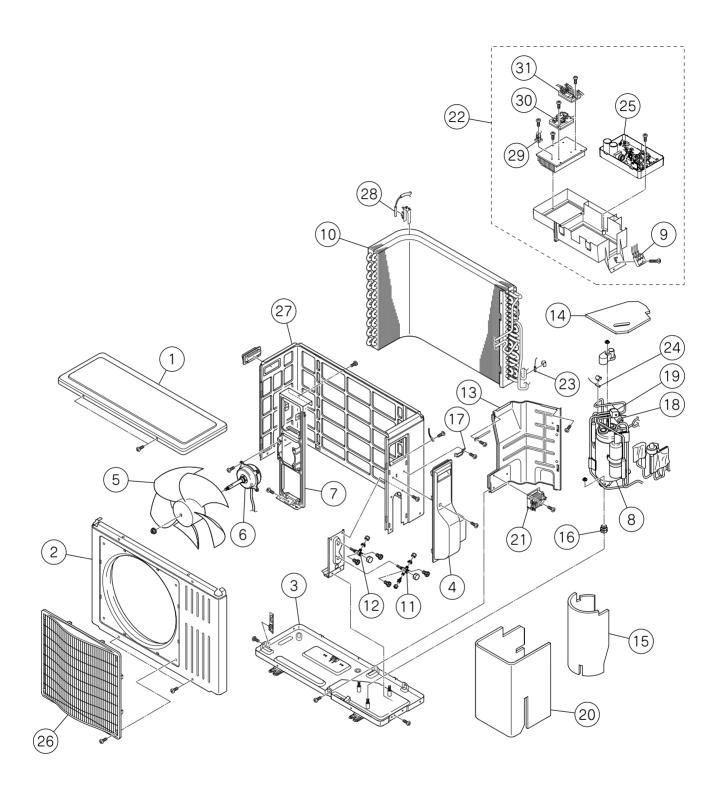
EXPLODED VIEW (OUTDOOR UNIT)

TAG-A10HWI(A) TAG-A13HWI(A)



EXPLODED VIEW (INDOOR UNIT)

TAG-A16HWI(A)



1 CONTROLLER ASSY. 2051049[0] 205105 2 PCB (MAIN) 5565304[0] 556531 3 PCB (RECEIVER & DISPLAY) ASSY. 2047192[0] < 4 SENSOR 3005507[0] < 5 TERMINAL BLOCK 5162084[0] < 6 TERMINAL BLOCK 5162084[0] < 7 CORD,POWER SUPPLY 3002156[0] < 8 FRONT PANEL ASSY. 2047189[0] < 9 INLET GRILLE 2051130[0] < 10 REAR CASE ASSY. 2042624[0] < 11 WIRING LID 2014805[0] < 12 MOTOR,FAN 2016222[3] < 13 TANGENTIAL FAN 3002479[0] < 14 BEARING ASSY. 2002268[1] < 15 DRAIN PAN ASSY. 2002268[1] < 16 MOTOR,LOUVER 3006139[0] < 17 LOUVER (UP-DOWN) 2014720[0] < 18 DRAIN HOSE 5162000[0] < 19 EVAPORATOR ASSY. </th <th>HWI(A)</th>	HWI(A)
3 PCB (RECEIVER & DISPLAY) ASSY. 2047192[0] <-	;0 <u>[0]</u>
4 SENSOR (TEMP,ROOM & HEAT EXCHAGER) 3005507(0) <	20
SENSOR 3005507[0] 5 (TEMP,ROOM & HEAT EXCHAGER) 3005507[0] 6 TERMINAL BLOCK 5162084[0] 7 CORD,POWER SUPPLY 3002156[0] 8 FRONT PANEL ASSY. 2047189[0] 9 INLET GRILLE 2051130[0] 10 REAR CASE ASSY. 2042624[0] 11 WIRING LID 2014805[0] 12 MOTOR,FAN 2016222[3] 13 TANGENTIAL FAN 3002479[0] 14 BEARING ASSY. 2004833[0] 15 DRAIN PAN ASSY. 2002268[1] 16 MOTOR,LOUVER 3006139[0] 17 LOUVER (UP-DOWN) 2014720[0] 18 DRAIN HOSE 5162000[0] 19 EVAPORATOR ASSY. 2014699[0] 20 AIR FILTER 2014699[0] 21 MOUNTING PLATE ASSY. 201471	
5 (TEMP,ROOM & HEAT EXCHAGER) 3003307 [9] (*) 6 TERMINAL BLOCK 5162084 [0] (*) 7 CORD,POWER SUPPLY 3002156 [0] (*) 8 FRONT PANEL ASSY. 2047189 [0] (*) 9 INLET GRILLE 2051130 [0] (*) 10 REAR CASE ASSY. 2042624 [0] (*) 11 WIRING LID 2014805 [0] (*) 12 MOTOR,FAN 2016222 [3] (*) 13 TANGENTIAL FAN 3002479 [0] (*) 14 BEARING ASSY. 2004833 [0] (*) 15 DRAIN PAN ASSY. 2002268 [1] (*) 16 MOTOR,LOUVER 3006139 [0] (*) 17 LOUVER (UP-DOWN) 2014720 [0] (*) 18 DRAIN HOSE 5162000 [0] (*) 19 EVAPORATOR ASSY. 2021598 [5] (*) 20 AIR FILTER 2014699 [0] (*) 21 MOUNTING PLATE ASSY. 2014715 [3] (*) 22 PIPING SUPPORT 2014702 [0] (*) </td <td></td>	
7 CORD,POWER SUPPLY 30021560] ← 8 FRONT PANEL ASSY. 20471890] ← 9 INLET GRILLE 20511300] ← 10 REAR CASE ASSY. 20426240] ← 11 WIRING LID 20148050] ← 12 MOTOR,FAN 20162223] ← 13 TANGENTIAL FAN 30024790] ← 14 BEARING ASSY. 20048330] ← 15 DRAIN PAN ASSY. 20022681] ← 16 MOTOR,LOUVER 30061390] ← 17 LOUVER (UP-DOWN) 20147200] ← 18 DRAIN HOSE 51620000] ← 19 EVAPORATOR ASSY. 20215985] ← 20 AIR FILTER 20146990] ← 21 MOUNTING PLATE ASSY. 20147153] ← 22 PIPING SUPPORT (1) 20426230] ← 23 MOTOR SUPPORT 20147420] ← 24 REMOTE CONTROLLER ASSY. 20510560] ← 25 REMOTE CONTROLLER HOLDER	
8 FRONT PANEL ASSY. 2047189[0] 9 INLET GRILLE 2051130[0] 10 REAR CASE ASSY. 2042624[0] 11 WIRING LID 2014805[0] 12 MOTOR,FAN 2016222[3] 13 TANGENTIAL FAN 3002479[0] 14 BEARING ASSY. 2004833[0] 15 DRAIN PAN ASSY. 2002268[1] 16 MOTOR,LOUVER 3006139[0] 17 LOUVER (UP-DOWN) 2014720[0] 18 DRAIN HOSE 5162000[0] 19 EVAPORATOR ASSY. 2021598[5] 20 AIR FILTER 2014699[0] 21 MOUNTING PLATE ASSY. 2014715[3] 22 PIPING SUPPORT (1) 2042623[0] 23 MOTOR SUPPORT 2014742[0] 24 REMOTE CONTROLLER ASSY. 2051056[0] 25 REMOTE CONT	
9 INLET GRILLE 2051130[0] <	
10 REAR CASE ASSY. 2042624[0] <	
11 WIRING LID 2014805[0] <	
12 MOTOR,FAN 2016222[3] ← 13 TANGENTIAL FAN 3002479[0] ← 14 BEARING ASSY. 2004833[0] ← 15 DRAIN PAN ASSY. 2002268[1] ← 16 MOTOR,LOUVER 3006139[0] ← 17 LOUVER (UP-DOWN) 2014720[0] ← 18 DRAIN HOSE 5162000[0] ← 19 EVAPORATOR ASSY. 2021598[5] ← 20 AIR FILTER 2014699[0] ← 21 MOUNTING PLATE ASSY. 2014715[3] ← 22 PIPING SUPPORT (1) 2042623[0] ← 23 MOTOR SUPPORT 2014742[0] ← 24 REMOTE CONTROLLER ASSY. 2051056[0] ← 25 REMOTE CONTROLLER HOLDER 2013955[0] ←	
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15 DRAIN PAN ASSY. 2002268[1] ← 16 MOTOR,LOUVER 3006139[0] ← 17 LOUVER (UP-DOWN) 2014720[0] ← 18 DRAIN HOSE 5162000[0] ← 19 EVAPORATOR ASSY. 2021598[5] ← 20 AIR FILTER 2014699[0] ← 21 MOUNTING PLATE ASSY. 2014715[3] ← 22 PIPING SUPPORT (1) 2042623[0] ← 23 MOTOR SUPPORT 2014742[0] ← 24 REMOTE CONTROLLER ASSY. 2051056[0] ← 25 REMOTE CONTROLLER HOLDER 2013955[0] ←	
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18 DRAIN HOSE 5162000[0] ← 19 EVAPORATOR ASSY. 2021598[5] ← 20 AIR FILTER 2014699[0] ← 21 MOUNTING PLATE ASSY. 2014715[3] ← 22 PIPING SUPPORT (1) 2042623[0] ← 23 MOTOR SUPPORT 2014742[0] ← 24 REMOTE CONTROLLER ASSY. 2051056[0] ← 25 REMOTE CONTROLLER HOLDER 2013955[0] ←	
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21 MOUNTING PLATE ASSY. 2014715[3] ← 22 PIPING SUPPORT (1) 2042623[0] ← 23 MOTOR SUPPORT 2014742[0] ← 24 REMOTE CONTROLLER ASSY. 2051056[0] ← 25 REMOTE CONTROLLER HOLDER 2013955[0] ←	
22 PIPING SUPPORT (1) 2042623[0] ← 23 MOTOR SUPPORT 2014742[0] ← 24 REMOTE CONTROLLER ASSY. 2051056[0] ← 25 REMOTE CONTROLLER HOLDER 2013955[0] ←	
23 MOTOR SUPPORT 2014742[0] ← 24 REMOTE CONTROLLER ASSY. 2051056[0] ← 25 REMOTE CONTROLLER HOLDER 2013955[0] ←	
24REMOTE CONTROLLER ASSY.2051056[0]←25REMOTE CONTROLLER HOLDER2013955[0]←	
25 REMOTE CONTROLLER HOLDER 2013955[0] ←	
26 SCREW CAP 2014810[0] ←	
27 BATTERY 3005775[0] ←	
28 DRAIN ELBOW 2014808[0] ←	
29 GUM BUSHING 2014809[0] ←	

The digit in []] may vary depending on the version for the improvement.

NO.	PARTS NAME	TAN-A16HWI(A)
1	CONTROLLER ASSY.	20510510
2	PCB (MAIN)	5565325[0]
3	PCB (RECEIVER & DISPLAY) ASSY.	2047192[0]
4	SENSOR	3005507[0]
5	(TEMP,ROOM & HEAT EXCHAGER)	3003507 <u>[0]</u>
6	TERMINAL BLOCK	5162084[0]
7	CORD, POWER SUPPLY	5196643[0]
8	FRONT PANEL ASSY.	2047189[0]
9	INLET GRILLE	2051130[0]
10	REAR CASE ASSY.	2042624[0]
11	WIRING LID	2014805[0]
12	MOTOR,FAN	2016222[3]
13	TANGENTIAL FAN	3002479
14	BEARING ASSY.	2004833[0]
15	DRAIN PAN ASSY.	2002265[3]
16	MOTOR,LOUVER	3006139[0]
17	LOUVER (UP-DOWN)	2014720[0]
18	DRAIN HOSE	5162000[0]
19	EVAPORATOR ASSY.	2002153[8]
20	AIR FILTER	2014699[0]
21	MOUNTING PLATE ASSY.	2014715[3]
22	PIPING SUPPORT (1)	2042623[0]
23	MOTOR SUPPORT	2014742[0]
24	REMOTE CONTROLLER ASSY.	2003413[0]
25	REMOTE CONTROLLER HOLDER	20139550
26	SCREW CAP	20148100
27	BATTERY	30057750
28	DRAIN ELBOW	20148080
29	2-WAY VALVE	52200330
30	COIL,2-WAY VALVE	5220036[0]
31	PHOTOCATALYTIC ANTI-ODOR FILTER	50810220
32	STATIC,CATECHIN FILTER	5081023[0]
33	GUM BUSHING	2014809[0]

The digit in []] may vary depending on the version for the improvement.

NO.	PARTS NAME	TAG-A10HWI(A)	TAG-A13HWI(A)
1	TOP PANEL ASSY.	20148710	←
2	SIDE PANEL ASSY.	2001092[1]	←
3	BOTTOM PANEL ASSY.	20510610	←
4	WIRING LID	2013023[0]	←
5	PROPELLER FAN	52630340	←
6	MOTOR	3005532[2]	←
7	BRACKET, MOTOR	20144030	←
8	COMPRESSOR	51021940	5102195 <u>0</u>
9	TERMINAL BLOCK	51620820	←
10	CONDENSOR ASSY.	20199920	←
11	VALVE,SERVICE (3/8)	5153574[1]	4
12	VALVE,SERVICE (1/4)	5153573[1]	←
13	BAFFLE PANEL ASSY.	2017033[2]	←
14	SOUND PROOF MATERIAL	2000999[1]	2001429[1]
15	VIBRATION PROOF RUBBER	30002100	←
16	FIXTURE,CORD	20038190	←
17	4-WAY VALVE	5120241[]]	←
18	COIL,4-WAY VALVE	5120232[]]	←
19	SOUND PROOF MATERIAL (SIDE)	2020711[]]	←
20	REACTOR	5424024[1]	←
21	CONTROLLER ASSY.	20000046	20000115
22	SENSOR (TEMP.DEFROST)	5110096[0]	←
23	SENSOR (TEMP.DISCHARGE)	5110087[0]	←
24	PCB (MAIN)	2000005[1]	2000012 <u>[1]</u>
25	OUTLET GRILLE	20143710	←
26	BACK PANEL ASSY.	2014373[3]	←
27	SENSOR (TEMP.OUTDOOR)	30013590	~
28	BRIDGE DIODE	51607110	←
29	POWER MODULE	3007289[0]	←
30	PAM MODULE	3007231 <u>0</u>	←
31	VIBRATION PROOF RUBBER	2004668[1]	←

The digit in []] may vary depending on the version for the improvement.

NO.	PARTS NAME	TAG-A16HWI(A)
1	TOP PANEL ASSY.	2014871[0]
2	SIDE PANEL ASSY.	2001092[j]
3	BOTTOM PANEL ASSY.	2003414[j]
4	WIRING LID	2013023[<u>0]</u>
5	PROPELLER FAN	5263034[<u>0]</u>
6	MOTOR	3005532[2]
7	BRACKET, MOTOR	2014403[0]
8	COMPRESSOR	3007203[0]
9	TERMINAL BLOCK	5162082 <u>0</u>
10	CONDENSOR ASSY.	2002640[0]
11	VALVE,SERVICE (3/8)	5153574[]]
12	VALVE,SERVICE (1/4)	5153573[1]
13	BAFFLE PANEL ASSY.	2017033[2]
14	SOUND PROOF MATERIAL	2014876
15	SOUND PROOF MATERIAL	2015139[0]
16	VIBRATION PROOF RUBBER	3000205[0]
17	FIXTURE,CORD	2003819[0]
18	4-WAY VALVE	5120242[1]
19	COIL,4-WAY VALVE	5120232[1]
20	SOUND PROOF MATERIAL (SIDE)	2014874[0]
21	REACTOR	5424024[j]
22	CONTROLLER ASSY.	2047183[3]
23	SENSOR (TEMP.DEFROST)	5110096[0]
24	SENSOR (TEMP.DISCHARGE)	5110087 <u>[0]</u>
25	PCB (MAIN)	2047182[]]
26	OUTLET GRILLE	2014371[0]
27	BACK PANEL ASSY.	2014373 <u>[3]</u>
28	SENSOR (TEMP.OUTDOOR)	3001359 <u>[0]</u>
29	BRIDGE DIODE	5160711[0]
30	POWER MODULE	3007290 <u>[0]</u>
31	PAM MODULE	3007231[<u>0]</u>

The digit in [] may vary depending on the version for the improvement.

RA-58-[1]

ISSUED	MAY.2007
REVISED	