

Chassis 60V = Cold
mode OFF = Chilled
fan on Temp S = 0V
SW3: 3 speed tempo
~~100% 50% 25%~~



Mark	Parts name	Mark	Parts name	Mark	Parts name
CM	Compressor motor	205	4-way valve (coil)	W-4	Variable
PH-12	Fan motor (outdoor use)	8V-1	Refrigerant valve	TS-12	Terminal block (30 mark)
48F-12	Anti thermal for FxOs	CM-48	High Pressure switch (for protection)	F	Fuse
SCC	Magnetic contactor for FxOs	63Hz	High Pressure switch (for control)	SW-1	Indoor unit address trim plate
CH-1	Crank case heater	TH-4	The meter (outdoor air temp.)	SW-2	Indoor unit address trim plate
CP-12	Capacitor for PhOs	TH-4	Thermistor (dense temperature)	LED	Indicator lamp (Red)
X-1	Auxiliary relay (for SL1, SL2, SL3)	TH-4	Thermistor (discharge temp.)	LED	Indicator lamp (Green)
X-2	Auxiliary relay (for 205)	TH-4	Thermistor (outdoor 11X temp.)	F	Terminal (F)
X-3	Auxiliary relay (for SV, SV1)	CT-1	Current sensor	Q	Quantifier
X-4	Auxiliary relay (for PhOs)	SA	Anticlock	CM	Compressor
X-5	Auxiliary relay (for PhOs)	Y			

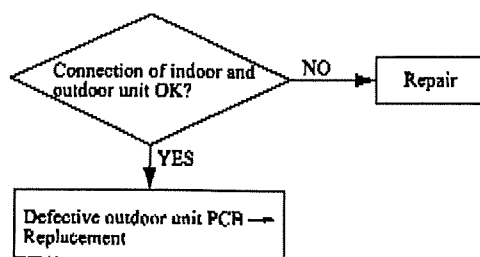
Color mark			
Mark	Color	Mark	Color
BK	Black	WH	White
BL	Blue	Y	Yellow
GR	Gray	YGN	YellowGreen
OR	Orange	P	Pink
RD	Red		

ready for FMA3) ready for FMA2)	SA Tr	Arithmetic Transformer
SW4:	0 = frequency	3 = 10 clocke CPR
	1 = 10 ed = n per out	4 = 10 ref. CPR 1
	7 = 10 out	5 = 10 ref. CPR 2

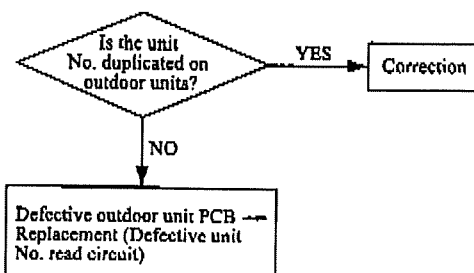
Orange Red	P	Pink
6. I CPR1		10: p ⁺ state HP1
7. I CPR2		11: p ⁺ state HP2
8. etat none SUV		13: mb unit comad
9. etat none SUV		14: response CPR
g =		

3**Error display : E30****[Connection error indoor and outdoor unit]**

Indoor unit		Outdoor unit	
Red LED	Stays OFF	Red LED	1 time flash
Green LED	Keeps flashing	Green LED	Keeps flashing

**4****Error display : E31****[Duplicated unit No. of outdoor units]**

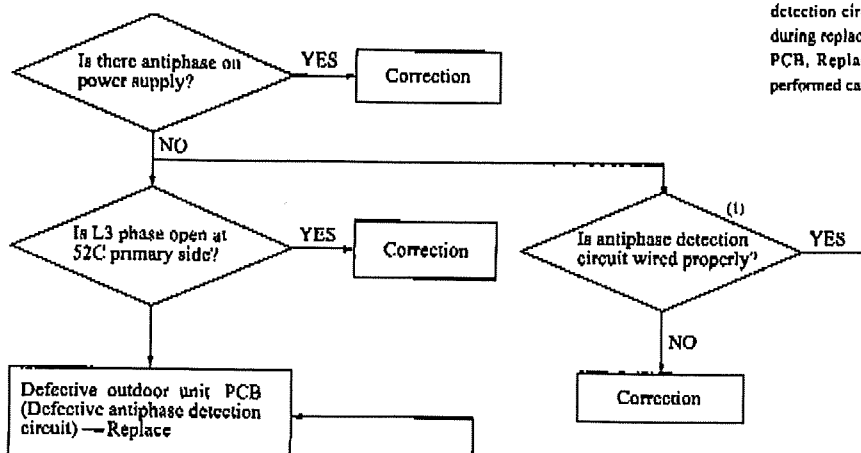
Indoor unit		Outdoor unit	
Red LED	Stays OFF	Red LED	1 time flash
Green LED	Keeps flashing	Green LED	Keeps flashing



Note (1) When the PCB is defective, the flash patterns of outdoor unit red LED, green LED may become irregular.

5**Error display : E32****[Antiphase on power supply or open 52C L3 phase (primary side) on power supply]**

Indoor unit		Outdoor unit	
Red LED	Stays OFF	Red LED	1 time flash
Green LED	Keeps flashing	Green LED	Keeps flashing

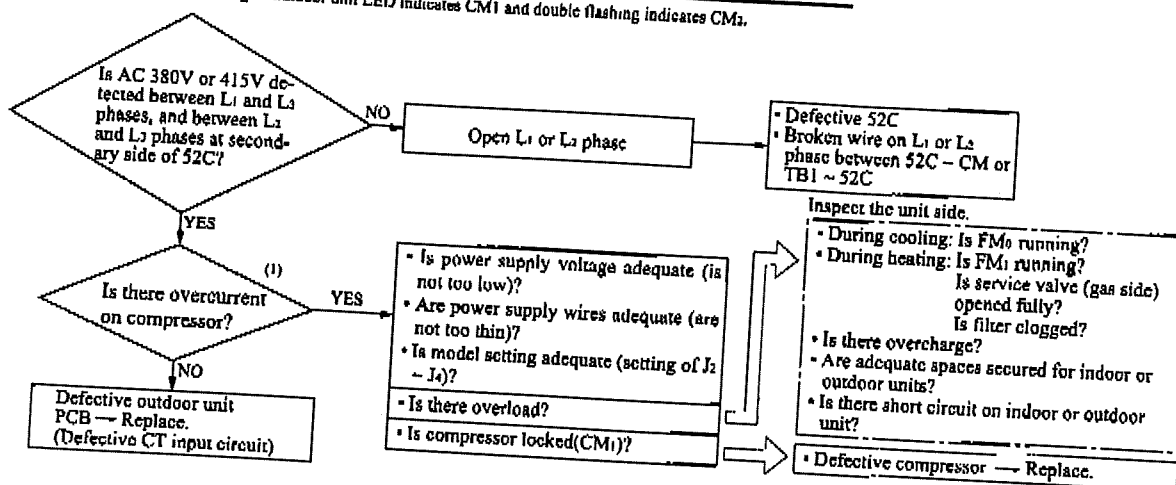


Note (1) Wrong wire connection of the antiphase detection circuit is suspected occurred during replacement of the outdoor unit PCB. Replacement work should be performed carefully.

6 Error display : E33 [Or overcurrent error (CM2), motor lock (CM1)]

Indoor unit		Outdoor unit	
Red LED	Stays OFF	Red LED	1 time flash ⁽¹⁾
Green LED	Keeps flashing	Green LED	Keeps flashing

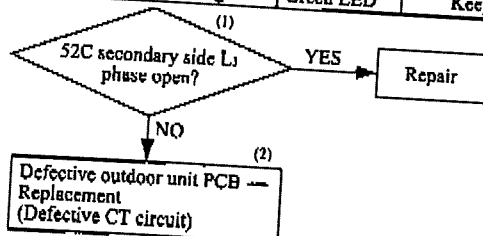
Note (1) Single flashing of outdoor unit LED indicates CM1 and double flashing indicates CM2.



Note (1) Measure the current value for confirmation.
Confirm that there is no mistake in the setting of J2 ~ J4 on the outdoor unit PCB.

7 Error display : E34 [Open phase at L1 phase of 52C secondary side (CM2)]

Indoor unit		Outdoor unit	
Red LED	Stays OFF	Red LED	2 time flash ⁽¹⁾
Green LED	Keeps flashing	Green LED	Keeps flashing

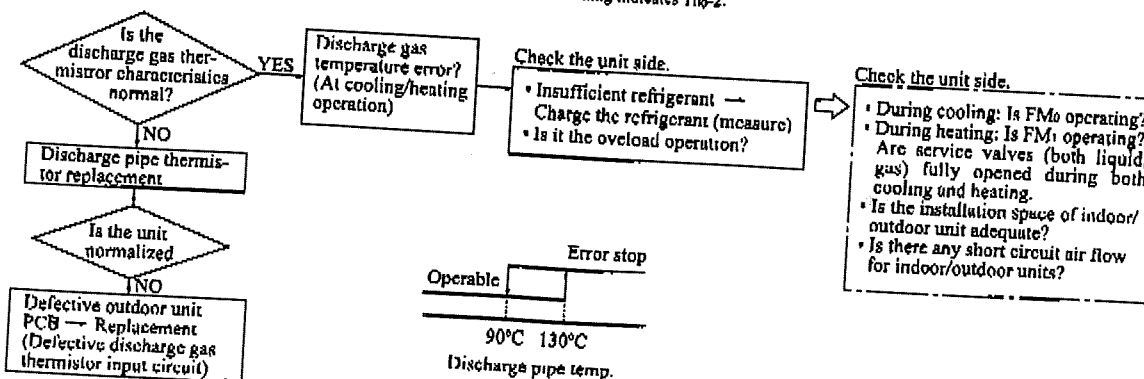


Notes (1) When voltage is detected at 52C primary side but not at the secondary side, check also 52C (broken coil, poor contact).
(2) When voltage is detected at 52C primary side L1 phase and there is no error at 52C, the outdoor unit PCB (defective 52X01 circuit or 52X01) or indoor unit PCB (defective thermostat circuit) is defective.

8 Error display : E36 [Discharge temperature error]

Indoor unit		Outdoor unit	
Red LED	Stays OFF	Red LED	1 time flash ⁽¹⁾
Green LED	Keeps flashing	Green LED	Keeps flashing

Note (1) Single flashing of outdoor unit LED indicates Tho-1 and double flashing indicates Tho-2.



Remote controller error code	Indoor unit LED		Outdoor unit LED		Cause
	Green	Red	Green	Red	
E12	Keeps flashing	1 time flash	Keeps flashing	Stays OFF	Address No. combination error or addressing is performed with the following combinations. Outdoor No. 0 ~ 47 Indoor No. 48, 49 0 ~ 47
E28	Keeps flashing	Stays OFF	Keeps flashing	Stays OFF	Remote controller thermistor failure
E30	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Indoor/outdoor unit connected error
E31	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Outdoor unit No. duplication. Outdoor unit address No. is not set for super link wiring. Outdoor unit address No. is changed in the power ON status.
E32	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	52C primary side T-phase wiring is open or reversal phase
E33	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Abnormal current cut of compressor (CM2) Locking of compressor motor (CM1)
E34	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	52C secondary side T-phase wiring is open. Inverters error.
E36	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Discharge temperature abnormality.
E37	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Outdoor unit heat exchanger thermistor failure
E38	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Outside temperature sensor failure
E39	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Discharge temperature thermistor failure
E40	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	63HI operation
E41	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Power transistor overheat
E42	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Abnormal current cut of compressor (CM1)
E43	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	The number of connectable units is exceeded.
E45	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Transmission error between inverter and outdoor unit PCB
E46	Keeps flashing	Stays OFF	Keeps flashing	1 time flash	Automatic address setting and remote controller address setting or manual address setting coexists in the same network.

Notes (1) Lamp is off if wires are broken at power ON.

(2) When plural numbers of compressor and discharge sensor are installed, single flashing of outdoor unit LED (red) indicates CM₁.

(The-Dx) and double flashing indicates CM₂ (The-Dx).

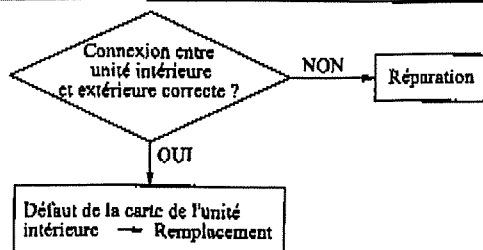
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Affichage d'erreur : E30

[Erreur de connexion entre unité intérieure et extérieure]

Affichage à 7 segments : E30

Unité intérieure		Unité extérieure	
Voyant rouge	Reste éteint	Voyant rouge	Clignote à vitesse 1
Voyant vert	Clignote continuellement	Voyant vert	Clignote continuellement



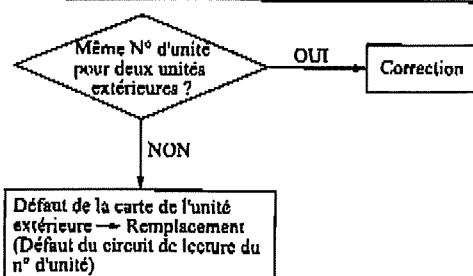
4

Affichage d'erreur : E31

[Répétition du N° d'unité extérieure]

Affichage à 7 segments : E31

Unité intérieure		Unité extérieure	
Voyant rouge	Reste éteint	Voyant rouge	Clignote à vitesse 1
Voyant vert	Clignote continuellement	Voyant vert	Clignote continuellement



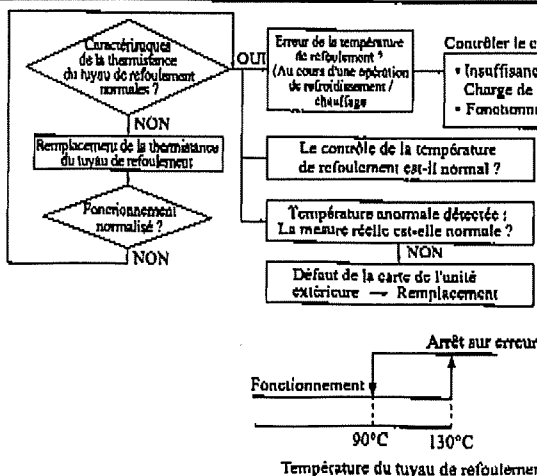
5

Affichage d'erreur : E36

[Erreur de la température de reflux]

Affichage à 7 segments : E36

Unité intérieure		Unité extérieure	
Voyant rouge	Reste éteint	Voyant rouge	Clignote à vitesse 1
Voyant vert	Clignote continuellement	Voyant vert	Clignote continuellement

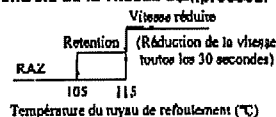


Contrôler le côté unité

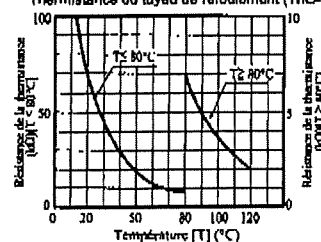
- En mode climatisation, le FM fonctionne-t-il ?
- En mode chauffage, le FM fonctionne-t-il ?
- Les vannes enregistrent (circuits liquide et gaz) sont-elles complètement ouvertes pendant les deux modes climatisation et chauffage ?
- Espace d'installation de l'unité intérieure / extérieure suffisant ?
- Bouclage de l'écoulement d'air pour les unités intérieures / extérieures ?

Si la température du tuyau de reflux dépasse la valeur de consigne, la vitesse du compresseur est contrôlée et l'augmentation de la température du tuyau de reflux est supprimée.

♦ Contrôle de la vitesse compresseur



Caractéristiques résistance / température de la thermistance du tuyau de reflux (ThO-D)



• Conditions d'affichage

Si la température de reflux atteint la valeur indiquée plus de 5 fois en 60 minutes ou en continu pendant 60 minutes, y compris lorsque le compresseur est à l'arrêt.