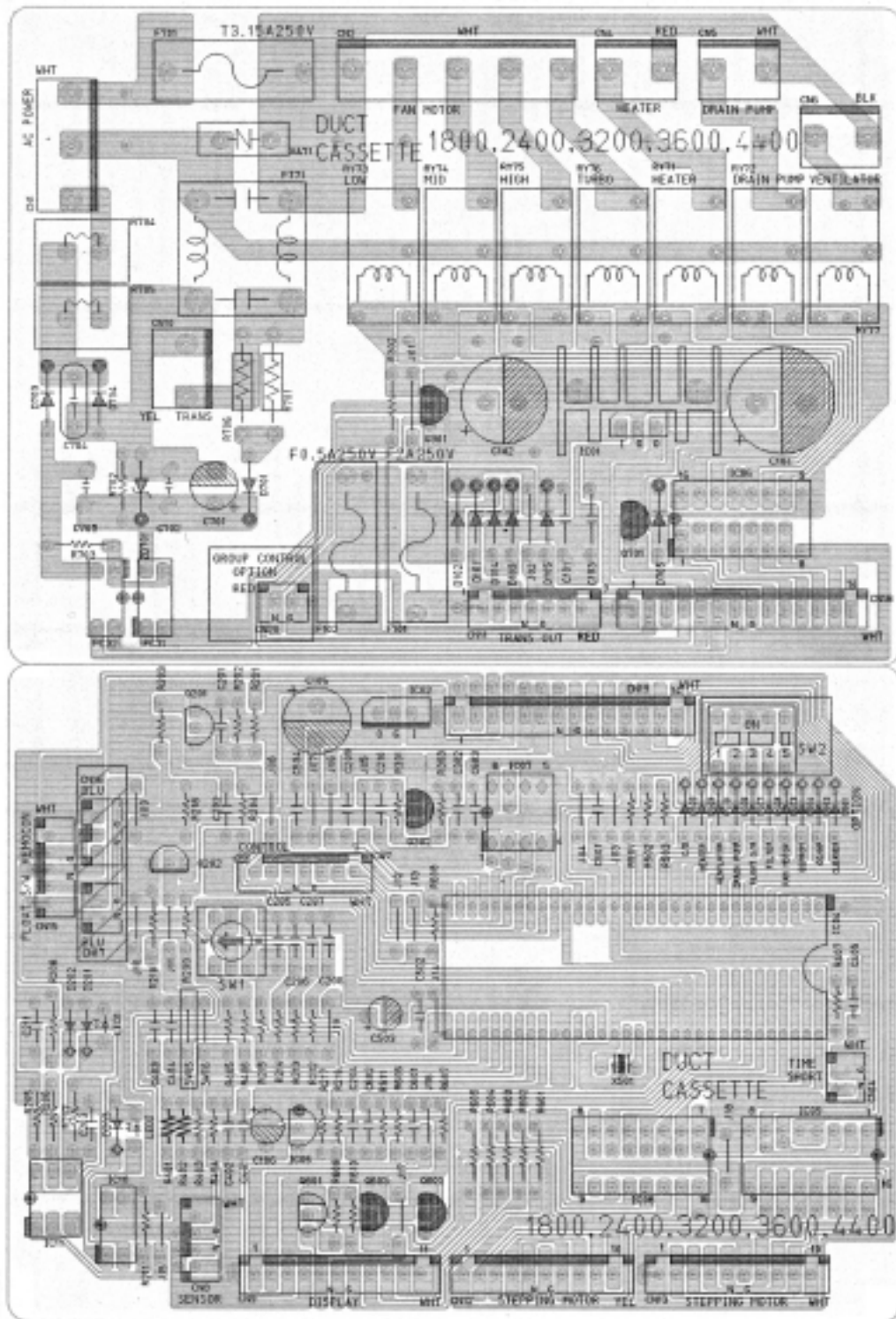


9. PCB Diagrams

9-1 Main PCB

9-1-1 Indoor Unit (18K/24K)

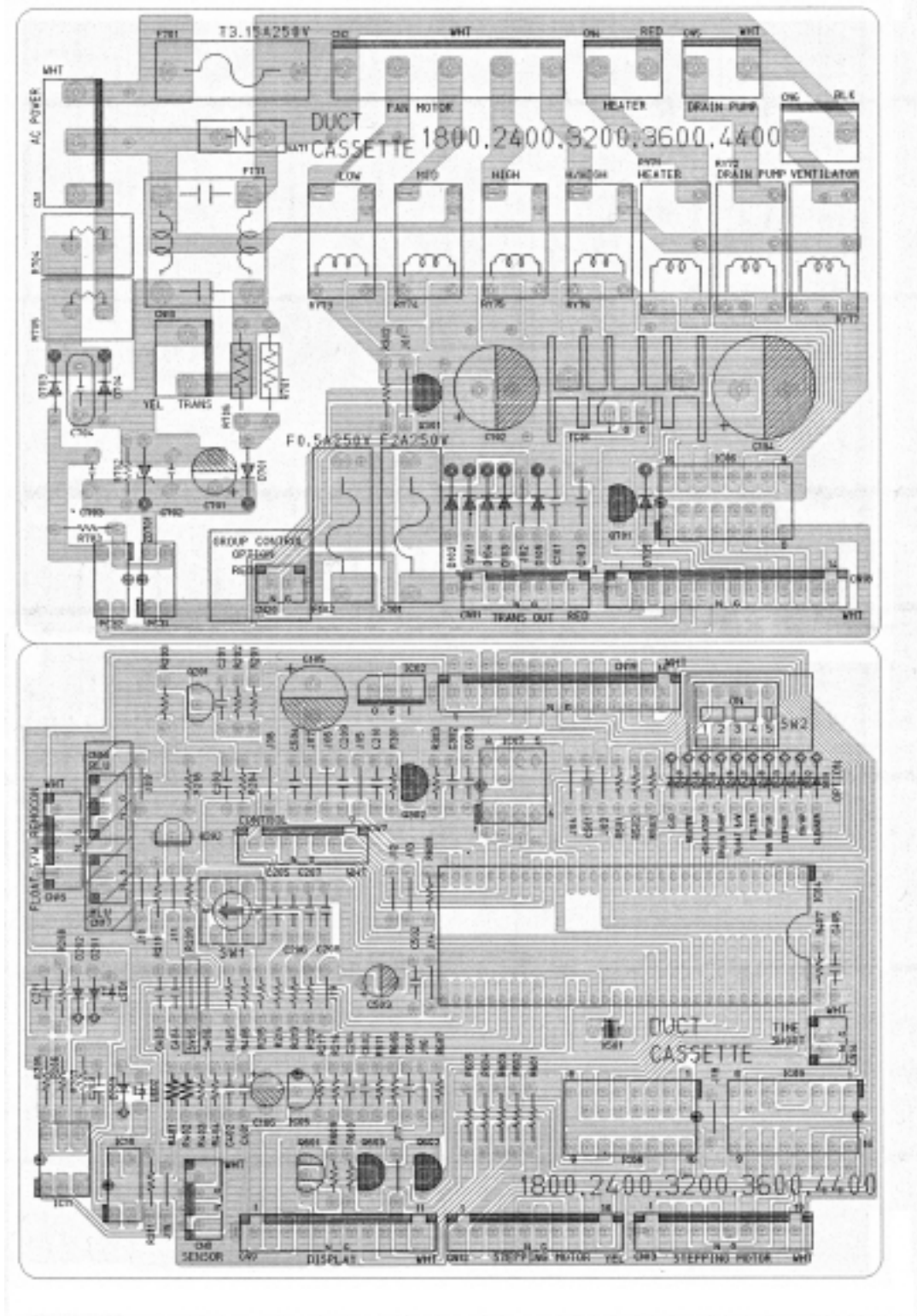


■ Indoor Part List (ACH1800, CH18ZA, CH18CA, ACH2400, CH24ZA, CH24CA) : PD-DH2400-01

Mark	Parts Name	Specification
J01, J02, J04 - J19, SW05, SW05	JUMP WIRE	PI 0.6 SN T 52MM
IC04	IC-MCU	UPD780032
IC06, IC08, IC09	IC-LINEAR	KA2657
IC07	IC-EEPROM	93LC56B-I/P
IC05	IC-RESET	KA7533
PC31, PC32, IC10	PHOTO-COUPLER	PC817
IC02	IC-VOLTAGE-REG	KA7805
IC01	IC-VOLTAGE-REG	KA7812
IC11	PHOTO-THYRISTOR	S12MD1V
X501	CERAMIC-RESONATOR	4MHz CST4MTW TC
D101 - D105, D701, D703, D704, D705	DIODE-RECTIFIER	1N4007
ZD701	DIODE-ZENER	ZD24
C/D, HEATER, VENTLATOR, DRAIN PUMP	DIODE-SWITCHING	1N4148M, 100V
FLOAT S/W, FILTER, FAN MOTOR, EEPROM	"	"
CLEANER, D201-D203	"	"
CN18, CN19	CONNECTOR-HEADER	SMW250-14-WHT
CN13	CONNECTOR-HEADER	SMW250-10-WHT
CN12	CONNECTOR-HEADER	SMW250-10-YEL
CN9	CONNECTOR-HEADER	SMW250-11-WHT
CN11	CONNECTOR-HEADER	SMW250-07-RED
CN8	CONNECTOR-HEADER	SMW250-04-WHT
CN14	CONNECTOR-HEADER	SMW250-02-WHT
CN7	CONNECTOR-HEADER	SMW250-07-WHT
CN20	CONNECTOR-HEADER	SMW250-02-RED
CN15	CONNECTOR-HEADER	SMW250-05-WHT
CN5	CONNECTOR HEADER	YW396-03AV-WHT
CN2	CONNECTOR HEADER	YW396-09AV-WHT
CN10	CONNECTOR HEADER	YW396-03AV-YEL
CN1	CONNECTOR HEADER	YW396-05AV-WHT
CN6	CONNECTOR HEADER	YW396-03AV-BLK
Q601	TR-SMALL	A708, NPN
Q201	TR-SMALL	KSC945, NPN
Q301, Q701, Q302, Q602, Q603	TR-DIGITAL	KSR1002
Q202	TR-DIGITAL	KSR2002
LED1	LED-LAMP	RED
LED2	LED-LAMP	GREEN
C702, C703	C-FILM	DISK, 4.7NF
C602	C-CERAMIC	AXIAL, 4.7NF(472)
C101, C103, C105, C209, C210, C501, C302, C603	C-CERAMIC	AXIAL, 100NF(104)
C205-C208, C402-C404, C502, C204, C405	-	-
C202, C203	C-CERAMIC	AXIAL, 10NF(103)
C704	C-FILM	DISK, 10NF(103)
C601	C-CERAMIC	AXIAL, 101
C211	C-CERAMIC	AXIAL, 1NF(102)
C102	C-AL	1000uF/35V
C104	C-AL	2200uF/25V
C105	C-AL	470uF/25V
C106	C-AL	1uF/16V

Mark	Parts Name	Specification
C503,C701	C-AL	100uF/16V
R201,R218,R501-R503,R608,R405,R406,R215	R-CARBON	10K-J 1/8W
R212-R214,R607,R610,R407	-	-
R302	R-CARBON	1K-J 1/4W
R203,R204,R301,R217,R216,R609	R-CARBON	1K-J 1/8W
R202	R-CARBON	3.3K-J 1/8W
R209	R-CARBON	12K-J 1/8W
R207	R-CARBON	27K-J 1/4W
R210,R208	R-CARBON	2.4K-J 1/4W
R211	R-CARBON	330-J 1/4W
R601-R605	R-CARBON	330-J 1/2W
R403,R404,R606	R-CARBON	330-J 1/8W
R401, R402	R-METAL	6.8K-F 1/8W
R611	R-CARBON	100K-J 1/8W
R205, R205	R-CARBON	10-J 1/4W
R703	R-CARBON	4.7K-J 1/4W
R706, 701	R-CARBON	100K-J 2W
R702	R-CARBON	100K-J 1/4W
R704, R705	R-CELENT	10K-J 5W
RY72 ~ RY77	RELAY-MINIATURE	JQ1A-12V
F701	FUSE	T3.15A 250V
HOLDER	HOLDER	FH-51H 7.5A
F101	FUSE	F2A250V
HOLDER	HOLDER	FH-51M 7.5A
F102	FUSE	F0.5A 250
HOLDER	HOLDER	FH-51M 7.5A
FT71	NOISE FILTER	HP1-P16
VA71	VARISTOR	1NR14D471

• Indoor Unit (18K/24K/36K/44K)



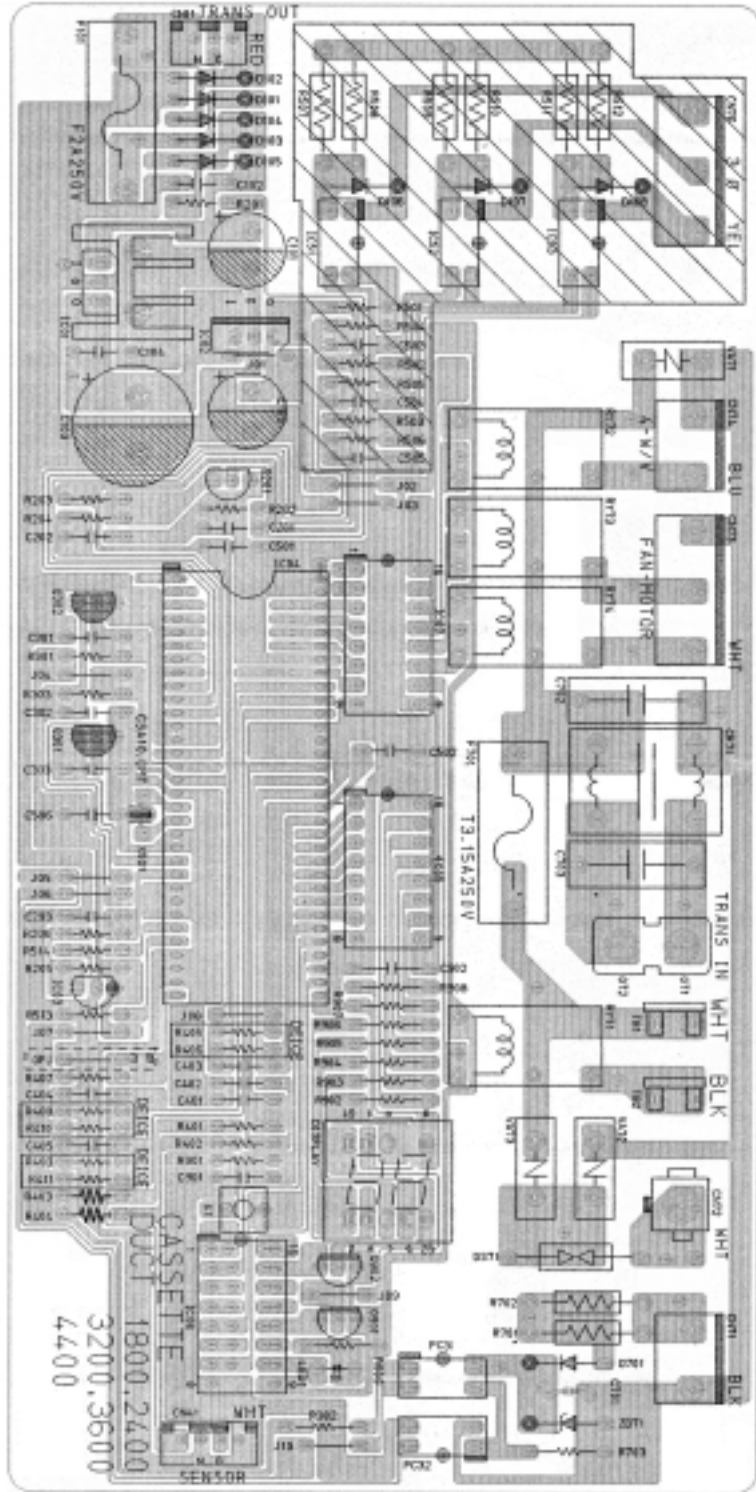
■ Indoor Part List (ACH1800, CH18ZA, CH18CA, ACH2400, CH24ZA, CH24CA, ACH3600, CH36ZA, ACH4400, CH44ZA) : PD-DH3200-01

Mark	Parts Name	Specification
J01, J02, J04 - J19,SW05,SW05	JUMP WIRE	PI 0.6 SN T 52MM
IC04	IC-MCU	UPD780032
IC06,IC08,IC09	IC-LINEAR	KA2657
IC07	IC-EEPROM	93LC56B-I/P
IC05	IC-RESET	KA7533
PC31,PC32,IC10	PHOTO-COUPLER	PC817
IC02	IC-VOLTAGE-REG	KA7805
IC01	IC-VOLTAGE-REG	KA7812
IC11	PHOTO-THYRISTOR	S12MD1V
X501	CERAMIC-RESONATOR	4MHz CST4MTW TC
D101 - D105,D701,D703,D704,D705	DIODE-RECTIFIER	1N4007
ZD701	DIODE-ZENER	ZD24
D501,D503 - D510,D201-D203	DIODE-SWITCHING	1N4148M,100V
CN18,CN19	CONNECTOR-HEADER	SMW250-14-WHT
CN13	CONNECTOR-HEADER	SMW250-10-WHT
CN12	CONNECTOR-HEADER	SMW250-10-YEL
CN9	CONNECTOR-HEADER	SMW250-11-WHT
CN11	CONNECTOR-HEADER	SMW250-07-RED
CN8	CONNECTOR-HEADER	SMW250-04-WHT
CN14	CONNECTOR-HEADER	SMW250-02-WHT
CN7	CONNECTOR-HEADER	SMW250-07-WHT
CN20	CONNECTOR-HEADER	SMW250-02-RED
CN15	CONNECTOR-HEADER	SMW250-05-WHT
CN5	CONNECTOR HEADER	YW396-03AV-WHT
CN2	CONNECTOR HEADER	YW396-09AV-WHT
CN10	CONNECTOR HEADER	YW396-03AV-YEL
CN1	CONNECTOR HEADER	YW396-05AV-WHT
CN6	CONNECTOR HEADER	YW396-03AV-BLK
Q601	TR-SMALL	A708,NPN
Q201	TR-SMALL	KSC945,NPN
Q301,Q701,Q302,Q602,Q603	TR-DIGITAL	KSR1002
Q202	TR-DIGITAL	KSR2002
LED1	LED-LAMP	RED
LED2	LED-LAMP	GREEN
C702,C703	C-FILM	DISK,4.7NF
C602	C-CERAMIC	AXIAL,4.7NF(472)
C101,C103,C105,C209,C210,C501,C302,C603	C-CERAMIC	AXIAL,100NF(104)
C205-C208,C402-C404,C502,C204,C405	-	-
C202,C203	C-CERAMIC	AXIAL,10NF(103)
C704	C-FILM	DISK,10NF(103)
C601	C-CERAMIC	AXIAL,101
C211	C-CERAMIC	AXIAL,1NF(102)
C102	C-AL	1000uF/35V
C104	C-AL	2200uF/25V
C105	C-AL	470uF/25V
C106	C-AL	1uF/16V
C503,C701	C-AL	100uF/16V
R201,R218,R501-R503,R608,R405,R406,R215	R-CARBON	10K-J 1/8W

Parts list

Mark	Parts Name	Specification
R212-R214,R607,R610,R407	-	-
R302	R-CARBON	1K-J 1/4W
R203,R204,R301,R217,R216,R609	R-CARBON	1K-J 1/8W
R202	R-CARBON	3.3K-J 1/8W
R209	R-CARBON	12K-J 1/8W
R207	R-CARBON	27K-J 1/4W
R210,R208	R-CARBON	2.4K-J 1/4W
R211	R-CARBON	330-J 1/4W
R601-R605	R-CARBON	330-J 1/2W
R403,R404,R606	R-CARBON	330-J 1/8W
R401, R402	R-METAL	6.8K-F 1/8W
R611	R-CARBON	100K-J 1/8W
R205, R206	R-CARBON	10-J 1/4W
R703	R-CARBON	4.7K-J 1/4W
R706, 701	R-CARBON	100K-J 2W
R702	R-CARBON	100K-J 1/4W
R704, R705	R-CELENT	10K-J 5W
RY72 ~ RY77	RELAY-MINIATURE	JQ1A-12V
RY73 ~ RY76	RELAY-MINIATURE	CS11-12SH
F701	FUSE	T3.15A 250V
HOLDER	HOLDER	FH-51H 7.5A
F101	FUSE	F2A250V
HOLDER	HOLDER	FH-51M 7.5A
F102	FUSE	F0.5A 250
HOLDER	HOLDER	FH-51M 7.5A
FT71	NOISE FILTER	HP1-P16
VA71	VARISTOR	1NR14D471

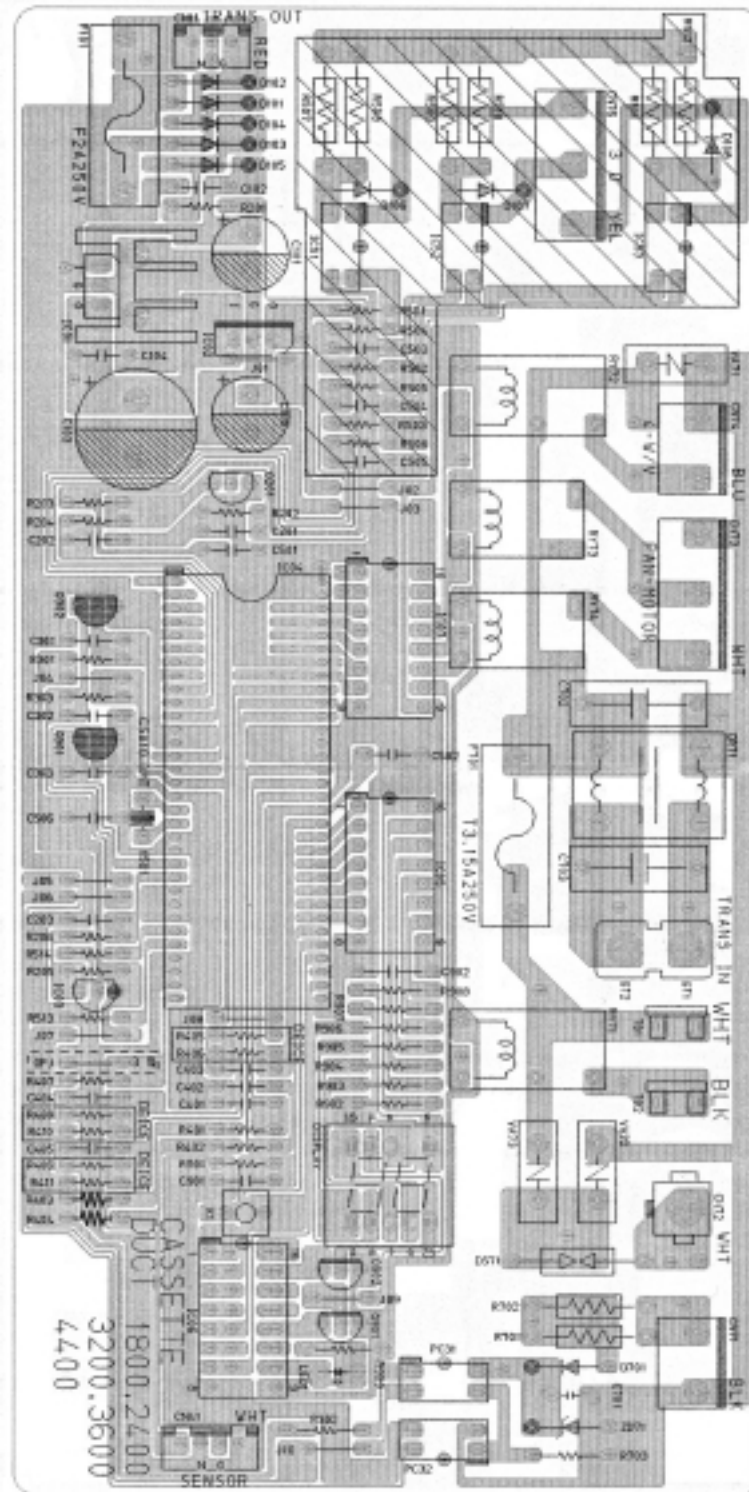
9-1-2 Outdoor Unit (18K/24K)



■ Outdoor Part List (ACH1800E, CH18CA, ACH2400E, CH24CA) : PD-DH2400-S0

Mark	Parts Name	Specification
J01-J03,J05-J10,OPJ	JUMP WIRE	PI 0.6 SN T 52MM
IC4	IC-MCU	KS88C46
IC05-IC07	IC-LINEAR	KA2657
PC31,PC32	PHOTO-COUPLER	PC817
IC03	IC-RESET	KA7533
IC02	IC-VOLTAGE-REG	KA7805
IC01	IC-VOLTAGE-REG	KA7812
X501	CERAMIC-RESONATOR	10MHz
D101-D105,D701	DIODE-RECTIFIER	1N4007
ZD71	DIODE-ZENER	ZD30
Q301,Q302	TR-DIGITAL	KSR1002
Q901,Q902	TR-DIGITAL	KSR2002
Q201	TR-SIGNAL	C945Y
LED1	LED-LAMP	RED
C701	C-FILM	DISK,4.7NF
C702,C703	C-X2	X-CAP,100NF(X2)
C502,C902,C201,C501,C104	C-CERAMIC	AXIAL,100NF(104)
C401-C403,C901,C202,C303	-	-
C506,C203,C404,C405,C102	-	-
C302	C-CERAMIC	AXIAL,1NF(102)
C101	C-AL	1000uF/35V
C103	C-AL	2200uF/25V
C105	C-AL	470uF/25V
R201,R901,R514,R513,R407	R-CARBON	10K-J 1/8W
R409	-	-
R405,R203,R204,R206,R205, R411	R-CARBON	1K-J 1/8W
R410	-	-
R406,R408, R409	R-CARBON	3.9K-J 1/8W
R703	R-CARBON	4.7K-J 1/4W
R301	R-CARBON	620-J 1/8W
R302	R-CARBON	470 1/4W
R902-R909	R-CARBON	470 1/2W
R303	R-CARBON	12K-J 1/8W
R202	R-CARBON	3.3K-J 1/8W
R401,R402	R-CARBON	330-J 1/8W
R403,R404	R-METAL	18K-F 1/8W
R701,R702	R-CARBON	5.6K 2W
RY71-RY74	RELAY-MINIATURE	JQ1a-12V
F101	FUSE	FST,250V,2A
F701	FUSE	FST,250V,3.15A
-	FUSE HOLDER	FH-51H 7.5A
-	HEAT SINK	A6063,L30LW23.5
CR71	COIL	L4460
VA71	VARISTOR	470V,4500A
CN73	CONNECTOR HEADER	YW396-05AV-WHT
CN71	CONNECTOR HEADER	YW396-03AV-BLK
CN74	CONNECTOR HEADER	YW396-03AV-BLU
CN41	CONNECTOR HEADER	SMW250-04-WHT
CN11	CONNECTOR HEADER	SMW250-03-RED
CN72	CONNECTOR HEADER	YDW236-01-WHT
GT1,GT2	GT PIN	GTP
TB1,TB2	TERMINAL	1P,TAB
K1	SWITCH	TACT
DISPLAY	7-SEG	2-DIGIT
DS71	DISCHARGER	MP-332MA

- Outdoor Unit (18K/24K/36K/44K)



■ Outdoor Part List (PD-DH3200-S1(Cassette))

Mark	Parts Name	Specification
J01-J03,J05-J10,OPJ	JUMP WIRE	PI 0.6 SN T 52MM
IC4	IC-MCU	KS88C46
IC05-IC07	IC-LINEAR	KA2657
PC31,PC32	PHOTO-COUPLER	PC817
IC03	IC-RESET	KA7533
IC02	IC-VOLTAGE-REG	KA7805
IC01	IC-VOLTAGE-REG	KA7812
X501	CERAMIC-RESONATOR	10MHz
D101-D105,D701	DIODE-RECTIFIER	1N4007
ZD71	DIODE-ZENER	ZD30
Q301,Q302	TR-DIGITAL	KSR1002
Q901,Q902	TR-DIGITAL	KSR2002
Q201	TR-SIGNAL	C945Y
LED1	LED-LAMP	RED
C701	C-FILM	DISK,4.7NF
C702,C703	C-X2	X-CAP,100NF(X2)
C502,C902,C201,C501,C104	C-CERAMIC	AXIAL,100NF(104)
C401-C403,C901,C202,C303	-	-
C506,C203,C404,C405,C102	-	-
C302	C-CERAMIC	AXIAL,1NF(102)
C101	C-AL	1000uF/35V
C103	C-AL	2200uF/25V
C105	C-AL	470uF/25V
R201,R901,R514,R513,R407	R-CARBON	10K-J 1/8W
R409	-	-
R405,R203,R204,R206,R205,R411	R-CARBON	1K-J 1/8W
R410	-	-
R406,R408,R409	R-CARBON	3.9K-J 1/8W
R703	R-CARBON	4.7K-J 1/4W
R301	R-CARBON	620-J 1/8W
R302	R-CARBON	470 1/4W
R902-R909	R-CARBON	470 1/2W
R303	R-CARBON	12K-J 1/8W
R202	R-CARBON	3.3K-J 1/8W
R401,R402	R-CARBON	330-J 1/8W
R403,R404	R-METAL	18K-F 1/8W
R701,R702	R-CARBON	5.6K 2W
RY71,RY74	RELAY-MINIATURE	JQ1a-12V
RY72,RY73	RELAY-MINIATURE	CS11-12SH
F101	FUSE	FST,250V,2A
F701	FUSE	FST,250V,3.15A
-	FUSE HOLDER	FH-51H 7.5A
-	HEAT SINK	A6063,L30LW23.5
CR71	COIL	L4460
VA71	VARISTOR	470V,4500A
CN73	CONNECTOR HEADER	YW396-05AV-WHT
CN71	CONNECTOR HEADER	YW396-03AV-BLK
CN74	CONNECTOR HEADER	YW396-03AV-BLU
CN41	CONNECTOR HEADER	SMW250-04-WHT
CN11	CONNECTOR HEADER	SMW250-03-RED
CN72	CONNECTOR HEADER	YDW236-01-WHT
GT1,GT2	GT PIN	GTP
TB1,TB2	TERMINAL	1P,TAB
K1	SWITCH	TACT
DISPLAY	7-SEG	2-DIGIT
DS71	DISCHARGER	MP-332MA

■ Outdoor Part List (PD-DH3200-S2(Cassette))

Mark	Parts Name	Specification
J01-J03,J05-J10,OPJ	JUMP WIRE	PI 0.6 SN T 52MM
IC4	IC-MCU	KS88C46
IC05-IC07	IC-LINEAR	KA2657
PC31,PC32, IC51~IC53	PHOTO-COUPLER	PC817
IC03	IC-RESET	KA7533
IC02	IC-VOLTAGE-REG	KA7805
IC01	IC-VOLTAGE-REG	KA7812
X501	CERAMIC-RESONATOR	10MHz
D101-D108,D701	DIODE-RECTIFIER	1N4007
ZD71	DIODE-ZENER	ZD30
Q301,Q302	TR-DIGITAL	KSR1002
Q901,Q902	TR-DIGITAL	KSR2002
Q201	TR-SIGNAL	C945Y
LED1	LED-LAMP	RED
C701	C-FILM	DISK,4.7NF
C702,C703	C-X2	X-CAP,100NF(X2)
C502,C902,C201,C501,C104	C-CERAMIC	AXIAL,100NF(104)
C401-C403,C901,C202,C303	-	-
C506,C203,C404,C405,C102,C503-C505	-	-
C302	C-CERAMIC	AXIAL,1NF(102)
C101	C-AL	1000uF/35V
C103	C-AL	2200uF/25V
C105	C-AL	470uF/25V
R201,R901,R514,R513,R407	R-CARBON	10K-J 1/8W
R409	-	-
R405,R203,R204,R206,R205,R411	R-CARBON	1K-J 1/8W
R410	-	-
R406,R408,R409	R-CARBON	3.9K-J 1/8W
R703	R-CARBON	4.7K-J 1/4W
R301	R-CARBON	620-J 1/8W
R302	R-CARBON	470 1/4W
R902-R909	R-CARBON	470 1/2W
R507-R512	R-METAL	150K-J 2W
R303	R-CARBON	12K-J 1/8W
R501~R503	R-CARBON	27K-J 1/8W
R202	R-CARBON	3.3K-J 1/8W
R401,R402,R504~R506	R-CARBON	330-J 1/8W
R403,R404	R-METAL	18K-F 1/8W
R701,R702	R-CARBON	5.6K 2W
RY71,RY74	RELAY-MINIATURE	JQ1a-12V
CN76	CONNECTOR HEADER	YW396-05AV-YEL
F101	FUSE	FST,250V,2A
F701	FUSE	FST,250V,3.15A
-	FUSE HOLDER	FH-51H 7.5A
-	HEAT SINK	A6063,L30LW23.5
CR71	COIL	L4460
VA71	VARISTOR	470V,4500A
CN73	CONNECTOR HEADER	YW396-05AV-WHT
CN71	CONNECTOR HEADER	YW396-03AV-BLK
CN74	CONNECTOR HEADER	YW396-03AV-BLU
CN41	CONNECTOR HEADER	SMW250-04-WHT
CN11	CONNECTOR HEADER	SMW250-03-RED
CN72	CONNECTOR HEADER	YDW236-01-WHT
RY72,RY73	RELAY-MINIATURE	CS11-12SH
GT1,GT2	GT PIN	GTP
TB1,TB2	TERMINAL	1P,TAB
K1	SWITCH	TACT
DISPLAY	7-SEG	2-DIGIT
DS71	DISCHARGER	MP-332MA

MEMO