

DX-1



1. Circuit Board : LC91110
2. Transistor
Tr1 : 2SC1815 (O,Y)
3. IC's
IC1, 2 : 74LS244
IC3, 23 : 74LS32
IC4 : 74LS123
IC5 : 74LS02
IC6, 7, 12, 13 : 74LS670
IC9, 15 : M5M5118P
IC8, 14 : MBM2732A - 30Z
(IN00620)
IC10, 16 : HD68B09P
IC11, 17 : 74LS138
IC18, 20 : YM2129
IC19, 21, 34,
44 : iG07950 (8P DIL)
IC22 : YM5206
IC24 ~ 26,
35 ~ 37 : 74LS85
IC27 ~ 29,
38 ~ 40 : 74LS399
IC30 ~ 32, 41,
42 : 74LS174
IC33, 43 : YM2128
IC45 : 74LS377
IC46 : 74LS393
IC47, 59,
65 ~ 67 : NJM4558DV
IC48, 49 : HD7417
IC50, 51 : TC4051BP
IC52, 53 : BA9221 (20P)
IC54, 55, 58,
60 : LF356 (8P DIL)
IC56, 57, 61 : TC4066BP
IC62, 63, 64 : TL072
4. Diode
D1 : 1SS133
5. Capacitors
△ Marked : Tantalum Cap.
(ㄣ) Marked : Ceramic Cap.
(※) Marked : Polypropylene Cap.
0.1(ㄣ) Marked : Semi-Conductive
Ceramic Cap.
6. Resistors
(B) Marked : Metal Film Resistor
0.1%
RM6 : Resistor Module
RM8-103
7. Relay
RY1 : RY5W
8. F1 : Electro Magnetic
Interference 0.022

Pin No.	Pin Name	Wire Color	Destination
1	+5D	OR	DCD+5D (C15-1)
2	+5D	OR	DCD+5D (C15-2)
3	D-GND	GY	DCD-D-GND (C15-3)
4	D-GND	GY	DCD-D-GND (C15-4)
5	+15A	BR	DCD+15A (C15-5)
6	A-GND	BL	DCD-A-GND (C15-6)
7	-15A	YE	DCD-15A (C15-7)

C1

Pin No.	Pin Name	Wire Color	Destination
1	D-GND	GY	DCD-D-GND (C22-5)
2	D-GND	GY	DCD-D-GND (C22-4)
3	D-GND	GY	DCD-D-GND (C22-3)
4	+5D	OR	DCD+5D (C22-2)
5	+5D	OR	DCD+5D (C22-1)

C2

Pin No.	Pin Name	Wire Color	Destination
1	+5D	OR	DTCN2+5D (C1-1)
2	—	—	—
3	D-GND	GY	DTCN2-D-GND (C1-3)

Note)

1. Circuit Board : LC91140
2. IC's
 - IC1, 5, 8, 16 : 74LS138
 - IC2 : 74LS367
 - IC3 : 74LS245
 - IC4, 9 : 74LS00
 - IC6 : 40H244
 - IC7 : 4066
 - IC10 : 74LS174
 - IC11, 21 : 74LS374
 - IC12 : 6303
 - IC13 : 74LS74
 - IC14 : 74LS373
 - IC15 : 2732A — 30Z
(IN00630)
 - IC17 : 74LS244
 - IC18 : 40H174
 - IC19, 20 : 7416
 - IC22 : PST518
3. Transistors
 - Tr1 ~ 3 : 2SD1198 (R)
4. Diodes
 - D1 ~ 42 : 1SS133
 - D43 ~ 46 : 0A95
5. Capacitor
 - (ㇿ) Marked : Semi-Conductive
Ceramic Cap.
6. Resistor Module
 - RM1, 2 : RM9-472J
7. Variable Resistor
 - VR1 : B10K
8. X1 : Electro Magnetic
Interference 0.022
- X2 : Ceralock 4MHz
- X3 : NEL-D32-43

PLL CIRCUIT BOARD & WIRING

Note)

1. Circuit Board : LC91151
2. Transistors
 - Tr1, 3, 12 : 2SC1815 (O,Y)
 - Tr2 : 2SA509 (O,Y)
 - Tr4, 6 : 2SA1015 (Y)
 - Tr5 : 2SC2120 (Y)
 - Tr7 ~ 11 : 2SD1198 (R)
3. IC's
 - IC1 ~ 12 : NJM4558DV
 - IC13 : M5899OP-1
 - IC14 : 74LS32
 - IC15 : 74LS02
 - IC16 : 74LS245
 - IC17 : 74LS367
 - IC18 : 74LS138
 - IC19 : 40H244
 - IC20 : 74LS74
 - IC21 : 40174BP
 - IC22, 23 : 7416
 - IC24 : 74LS374
4. Diodes
 - D1 ~ 44, 53 ~ 57 : 1SS133
 - D45 ~ 52 : 0A95
5. F1 : Electro Magnetic Interference 0.022
 - 0.1(μ) Marked : 0.1/16V Semi-Conductive Ceramic Cap.
 - 0.01(μ) Marked : 0.01/50V
6. PC1 : Photo Coupler
7. Relay
 - RY1, 2 : RZ12
 - RY3, 4 : RY5W
8. ◎ Marked : Solid Resistor
 - RM1 : Resistor Module RM8-472
9. (F) Marked : 1% Metal Film Resistor
 - (B) Marked : 0.1% Metal Film Resistor
 - 1P Marked : Metal Oxide Film Resistor

C1

Pin No.	Pin Name	Wire Color	Destination
1	-15A	YE	DCD--15A (C18-7)
2	-15A	YE	DCD--15A (C18-6)
3	A-GND	BL	DCD-A-GND (C18-5)
4	A-GND	BL	DCD-A-GND (C18-4)
5	A-GND	BL	DCD-A-GND (C18-3)
6	+15A	BR	DCD+15A (C18-2)
7	+15A	BR	DCD+15A (C18-1)

C2

Pin No.	Pin Name	Wire Color	Destination
1	PBV	BR	Left Endblock PBV (C2-1)
2	A-GND	RE	Left Endblock A-GND (C2-2)
3	PB	OR	Left Endblock PB (C2-3)
4	ADV	YE	Left Endblock ADV (C2-4)
5	ADV	GR	Left Endblock ADV (C2-1)
6	MW	BE	Left Endblock MW (C2-2)
7	A-GND	VI	Left Endblock A-GND (C2-3)
8	BC	S GY	HA-BC (C1-7)
9	A-GND	S GY	HA-A-GND (C1-6)
10	AT	S RE	AT-AT (C1-3)

C3

Pin No.	Pin Name	Wire Color	Destination
1	A-GND	S BR S	JK-A-GND (C3-2)
2	UOP	S BR	JK-P (C3-1)
3	A-GND	S RE S	JK-A-GND (C3-4)
4	UOB	S RE	JK-B (C3-3)
5	A-GND	S OR S	JK-A-GND (C3-6)
6	UOA	S OR	JK-A (C3-5)
7	A-GND	S RE S	TG-A-GND (C1-1)
8	BIN	S RE	TG-BO (C1-2)
9	A-GND	S BR S	TG-A-GND (C1-3)
10	A-IN	S BR	TG-AO (C1-4)

C4

Pin No.	Pin Name	Wire Color	Destination
1	B0A3	S WH	Balancing Output B0P3 (C3-3)
2	B0A2	S RE	Balancing Output B0P2 (C3-2)
3	A-GND	S BR S	Balancing Output B0P1 (C3-1)
4	A-GND	S YE S	HA-A-GND (C1-4)
5	PHONE	S YE	HA-HP (C1-5)

C5

Pin No.	Pin Name	Wire Color	Destination
1	A-GND	—	—
2	B0P3	S WH	Balancing Output B0P3 (C3-3)
3	B0P2	S RE	Balancing Output B0P2 (C3-2)
4	A-GND	S RE S	Balancing Output B0P1 (C3-1)
5	B0B3	S WH	Balancing Output B0B3 (C2-3)
6	B0B2	S RE	Balancing Output B0B2 (C2-2)
7	A-GND	S OR S	Balancing Output B0B1 (C2-1)

C6

Pin No.	Pin Name	Wire Color	Destination
1	FCV	BR	JK-FCV (C2-1)
2	FC	RE	JK-FC (C2-2)
3	A-GND	OR	JK-A-GND (C3-7)
4	EXPV	YE	JK-EXPV (C2-3)
5	EXP	GR	JK-EXP (C2-4)
6	A-GND	—	—
7	SUSP	S WH	JK-SUSP (C2-5)
8	PORP	S RE	JK-PORP (C2-6)
9	D-GND	S YE S	JK-D-GND (C2-7)

C7

Pin No.	Pin Name	Wire Color	Destination
1	D-GND	GY	DCD-D-GND (C21-5)
2	D-GND	GY	DCD-D-GND (C21-4)
3	D-GND	GY	DCD-D-GND (C21-3)
4	+5D	OR	DCD+5D (C21-2)
5	+5D	OR	DCD+5D (C21-1)

