

TEAMWAY LIMITED

TITLE : BILL OF MATERIAL

MODEL : IR550

DATE : 29 JAN 1997

ISSUE : 06

RECEIVER PARTS

ELECT. CHECKED

MECH. CHECKED

APPROVAL

ITEM	PART NO.	DESCRIPTION	QTY	MATERIAL	COLOUR	REMARK
R1	EP55IR-05B	MAIN PCB	1	1.0mm (P)		
R2	EP55IR-06B	RF PCB	1	1.0mm (P)		
R3	ED2002	PHOTO DIODE SLR3516H	2			D1,2
R4	ED0001	DIA.3mm LED (RED)	1			D3
R5	EI0012	IC. CXA1238M (SONY)	1	SMD		IC1
R6	EI0011	IC. TDA7050T (PHILIPS)	1	SMD		IC2
R7	ES0016	TRANSISTOR 2SK192A (TOSHIBA)	1			Q1
R8	ES0012F	TRANSISTOR 2SC2603F	1			Q2
R9	EC1475-42F	CAP. 4.7UF25V +-20% (E) 4X5mm	2			C1,14
R10	EC1474-42G	CAP. 0.47UF50V +-20% (E) 4X5mm	1			C2
R11	EC1105-42G	CAP. 1UF50V +-20% (E) 4X5mm	3			C3,26,27
R12	EC1106-42E	CAP. 10UF16V +-20% (E) 4X5mm	3			C4,13,23
R13	EC2203-41G	CAP. 0.02UF50V +-20% (C)	2			C5,6
R14	EC1335-42F	CAP. 3.3UF25V +-20% (E) 4X5mm	1			C7
R15	EC1107-41B	CAP. 100UF4V +-20% (E) 5X5mm	1			C8
R16	EC2022-41G	CAP. 22PF50V +-20% (C)	1			C9
R17	EC2003-41G	CAP. 3PF50V +-20% (C)	1			C10
R18	EC1336-42F	CAP. 33UF6.3V +-20% (E) 4X5mm	1			C11
R19	EC2080-41G	CAP. 80PF50V +-20% (C)	1			C12
R20	EC2103-41G	CAP. 0.01UF50V +-20% (C)	1			C15
R21	EC2102-41G	CAP. 1000PF50V +-20% (C)	2			C16,18
R22	EC2391-41G	CAP. 390PF50V +-20% (C)	1			C17
R23	EC2473-41G	CAP. 0.047UF50V +-20% (C)	1			C19
R24	EC2012-41G	CAP. 12PF50V +-20% (C)	1			C20
R25	EC2047-41G	CAP. 47PF50V +-20% (C)	1			C21
R26	EC2104-41E	CAP. 0.1UF25V +-20% (C)	1			C22
R27	EC1207-41B	CAP. 220UF4V +-20% (E) 6.3X5mm	3			C28,29,30
R28	ECV020-31G	CAP. TRIMMER 20PF 6mm (RED)	1			C31

RECEIVER PART

IR550

ITEM		DESCRIPTION	QTY	MATERIAL	COLOUR	REMARK
R29	ER1222-14A	RES. 2.2K 5% 1/16W	3			R1,6,14
R30	ER1101-14A	RES. 100ohm 5% 1/16W	2			R2,8
R31	ER1332-14A	RES. 3.3K 5% 1/16W	2			R3,4
R32	ER1104-14A	RES. 100K 5% 1/16W	1			R5
R33	ER1220-14A	RES. 22ohm 5% 1/16W	1			R7
R34	ER1681-14A	RES. 680ohm 5% 1/16W	1			R9
R35	ER1334-14A	RES. 330K 5% 1/16W	1			R10
R36	ER1680-14A	RES. 68ohm 5% 1/16W	1			R11
R37	ER1331-14A	RES. 330ohm 5% 1/16W	1			R15
R38	ER1470-14A	RES. 47ohm 5% 1/16W	1			R16
R39	EA0037	FM FILTER 10.7MHz	1			FL1
R40	EA0039	FM DISCRIMINATOR 10.7MHz	1			FL2
R41	ER8103-S10	SEMI FIXED 10K (6mm) 3PIN H TYPE	1			VR1
R42	ER1103-VB3	VR 10KB (DUAL) R1001G27B1	1			VR2
R43	EL0010	COIL 5.5UH 5X5X5mm 803828	1			T1
R44	EL0009	COIL 63UH 5X5X5mm 803827	1			T2
R45	EL0013	INDUCTOR 68UH	2	EC22		L1,3
R46	EL0012	INDUCTOR 47UH	1	EC22		L2
R47	EL0011	INDUCTOE 39UH	1	EC22		L4
R48	EWS060-24A	SHIELDED WIRE DIA. 1mm 60mmL BLACK	2			
R49	EW1070-32D	WIRE #32 70mmL ORANGE	1			A,B
R50	EW1050-32C	WIRE #32 50mmL RED	1			C
R51	EW1050-32A	WIRE #32 50mmL BLACK	1			D
R52	EW1085-32C	WIRE #32 85mmL RED	1			B+
R53	EW1100-32A	WIRE #32 100mmL BLACK	1			B-
R54	EA0035	STEREO 32ohm EARPHONE / 1.5mL WIRE / 3.5mm PLUG	1			
R55	EA0036	STEREO 3.5mm EARPHONE JACK (ST111)	1			
R56	EH0010	SLIDE SWITCH 1P2T (SK12F14-G6)	1			SW

TRANSMITTER PART IR550

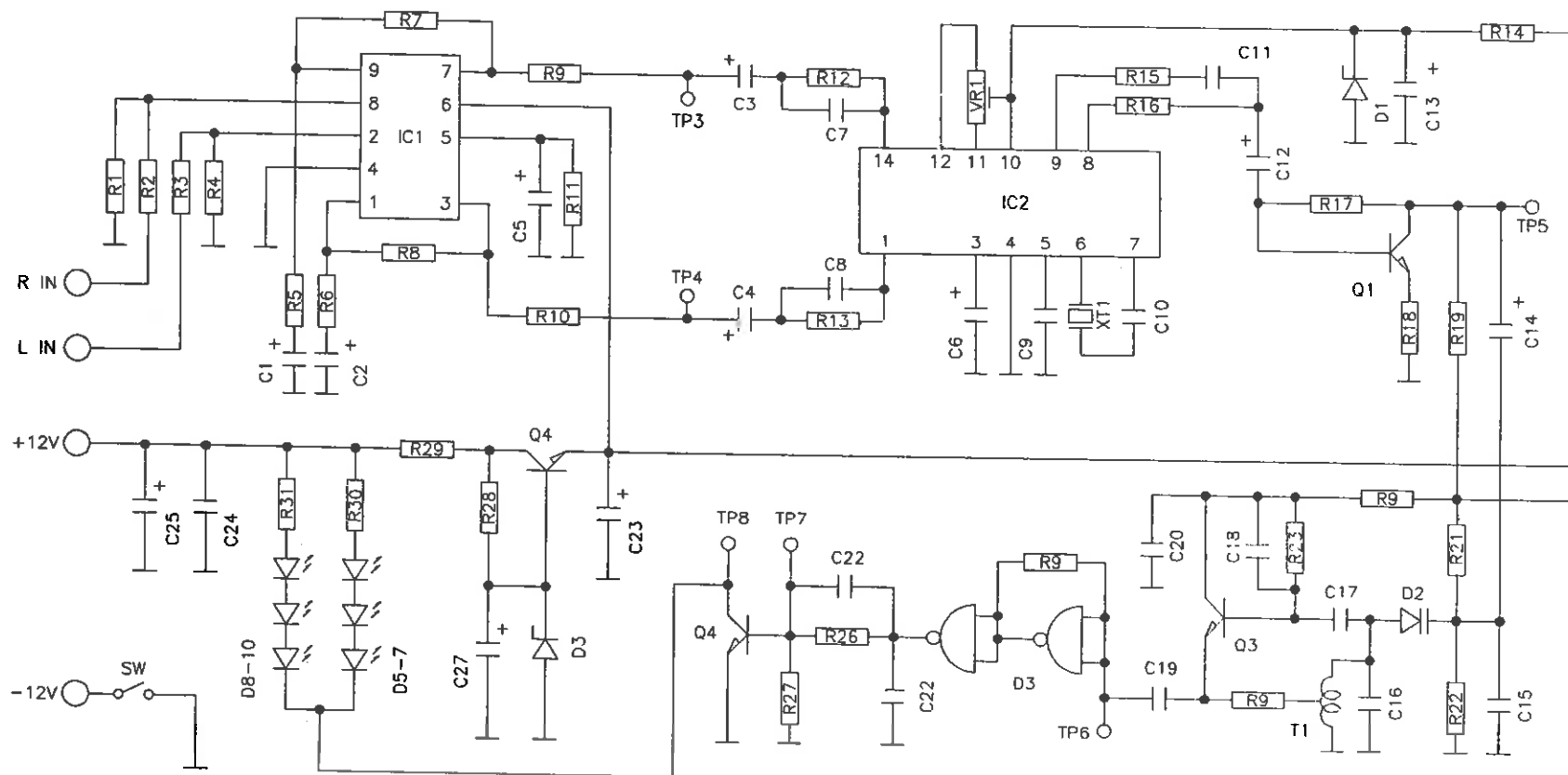
ITEM	PART NO.	DESCRIPTION	QTY	MATERIAL	COLOUR	REMARK
T1	EP55IR-01A	TRANSMITTER PCB				
T2	EP55IR-02A	AF PCB	1	1.6mm (P)		
T3	ED3010	ZENER 3.0V Iz 5mA	1	1.6mm (P)		
T4	ED3009	VC DIODE BB910 (PHILIPS)	1			D1
T5	ED3008	ZENER 10V Iz 5mA	1			D2
T6	ED1002	EMITTING DIODE EIR-205C(SYF)	1			D3
T7	ES0002D	TRANSISTOR 9014D	6			D5-10
T8	ES0018	TRANSISTOR 9018G	2			Q1,2
T9	ES0017	TRANSISTOR 2SD1468S (Rohm)	1			Q3
T10	EC1225-41G	CAP. 2.2UF50V +-20% (E) 4X7mm	1			Q4
T11	EC1106-41G	CAP. 10UF16V +-20% (E) 4X7mm	2			C1,2
T12	EC1476-41E	CAP. 47UF16V +-20% (E) 5X11mm	5			C3,4,6,12,14
T13	EC2102-41G	CAP. 0.001UF50V +-20% (C)	1			C5
T14	EC2101-41G	CAP. 100PF50V +-20% (C)	3			C7,8,19
T15	EC2010-41G	CAP. 10PF50V +-20% (C)	1			C9
T16	EC4221-31G	CAP. 220PF50V +- 10% (P)	2			C10,17
T17	EC1227-41B	CAP. 220UF6.3V +-20% (E) 6.3X7mm	1			C11
T18	EC2331-41G	CAP. 330PF50V +-20% (C)	1			C13
T19	EC2035-41G	CAP. 35PF50C +-20% (C)	1			C15
T20	EC2003-41G	CAP. 3PF50V +-20% (C)	1			C16
T21	EC2203-41G	CAP. 0.02UF50V +-20% (C)	1			C18
T22	EC2068-41G	CAP. 68PF50V +-20% (C)	1			C20
T23	EC2047-41G	CAP. 47PF50V +-20% (C)	1			C21
T24	EC2227-41E	CAP. 220UF16V +-20% (E) 6.3X11mm	1			C22
T25	EC2104-41F	CAP. 0.1UF25V +-20% (C)	3			C23,25,27
T26	ER1561-14A	RES. 560ohm 5% 1/16W	2			C24,26
T27	ER1183-14A	RES. 18K 5% 1/16W	3			R1,4,18
T28	ER1152-14A	RES. 1.5K 5% 1/16W	2			R2,3
T29	ER1223-14A	RES. 22K 5% 1/16W	2			R5,6
T30	ER1103-14A	RES. 10K 5% 1/16W	3			R7,8,22
			3			R9,10,16

TRANSMITTER PART IR550

ITEM	PART NO.	DESCRIPTION	QTY	MATERIAL	COLOR	REMARK
T31	ER1335-14A	RES. 3.3M 5% 1/16W	1	SMD		R11
T32	ER1683-14A	RES. 68K 5% 1/16W	2			R12,13
T33	ER1471-14A	RES. 470ohm 5% 1/16W	1			R14
T34	ER1154-14A	RES. 150K 5% 1/16W	1			R15
T35	ER1824-14A	RES. 820K 5% 1/16W	1			R17
T36	ER1682-14A	RES. 6.8K 5% 1/4W	2			R19,26
T37	ER1332-14A	RES. 3.3K 5% 1/16W	2			R20,28
T38	ER1104-14A	RES. 100K 5% 1/16W	1			R21
T39	ER1224-14A	RES. 220K 5% 1/16W	1			R23
T40	ER1681-14A	RES. 680ohm 5% 1/16W	2			R24
T41	ER1473-14A	RES. 47K 5% 1/16W	1			R25
T42	ER1182-14A	RES. 1.8K 5% 1/16W	1			R27
T43	ER1100-14A	RES. 10ohm 5% 1/16W	1			R29
T44	ER1220-14A	RES. 22ohm 5% 1/16W	2			R30,31
T45	EI0001A	IC. BA 3308 (Rohm)	1			IC1
T46	EI0008	IC. NJM2035D (JRC)	1			IC2
T47	EI0007	IC. MC14011B (MOTOROLA)	1			IC3
T48	EH0010	SLIDE SWITCH 1P2T SK-12F14-G6	1			SW
T49	EA0034	CRYSTAL 38KHz DIA. 3X8mm	1			XT
T50	ER8503-S10	SEMI FIXED 50K (6mm) 3 PIN H TYPE	1			VR1
T51	EL0014	OSC COIL 5X5X5mm 803826	1			T1
T52	EA0013	3.5mm STEREO JACK TO 2 RCA PLUG ADAPTOR	1			
T53	EA0033	DC JACK DS-208B	1			
T54	EA0011A	1.5M STEREO WIRE / 3.5mm STEREO PLUG	1			
T55	EWS050-34A	SHIELDED WIRE 3 PIN 50mmL DIA. 1.5mm	1			
T56	EW1050-26A	WIRE AWG26 50mmL	1		BLACK	
T57	EW1050-26C	WIRE AWG26 50mmL	1		BLACK	
T58	EW1080-26C	WIRE AWG26 80mmL	1		RED	
T59	ET0001	AC/DC ADAPTOR 12V 200mA	1		RED	

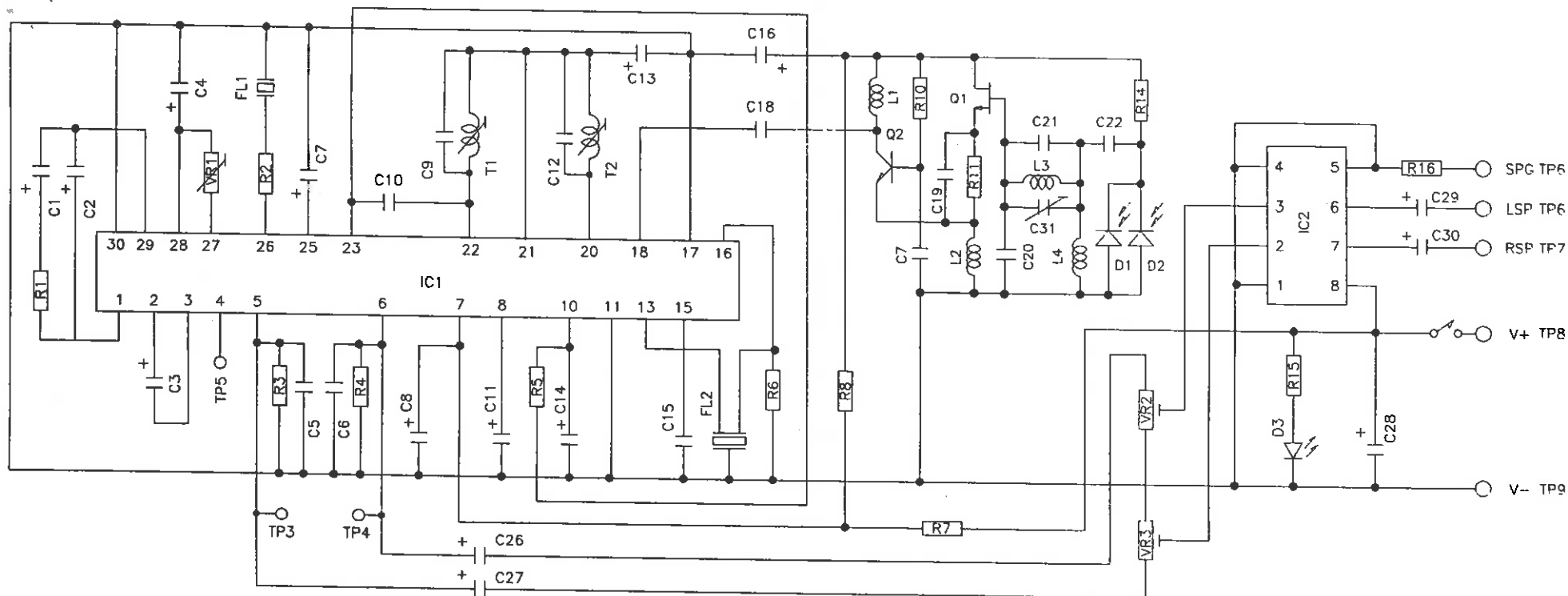
MECHANICAL PART IR550

ITEM	PART NO.	DESCRIPTION	QTY	MATERIAL	COLOUR	REMARK
M1	SPR0026	CONTACT SPRING - RX - BATTERY +	1	0.5mm STEEL WIRE	NI PLATED	
M2	SPR0027	CONTACT SPRING - RX - BATTERY -	1	0.5mm STEEL WIRE	NI PLATED	
M3	SPR0028	CONTACT SPRING - RX - BATTERY RETURN	1	0.5mm STEEL WIRE	NI PLATED	
M4	PAK0072	WHITE BOX - FOR ADAPTOR	1	E CARD	ORIGINAL	
M5	PAK0061	PAPER INSERT	1	E CARD	ORIGINAL	
M6	PAK0060	GIFT BOX - IR500/IR550	1	CARD	COLORFUL	
M7	PAP0023	INSTRUCTION MANUAL - IR500/IR550	1	PAPER	PRINTING	
M8	PAP0006	WARRENTY CARD	1	PAPER	PRINTING	
M9	PLT0065	LENS - TX	1	PC	DARK BLUE	
M10	PLT0066	CASE - TX	1	ABS	LIGHT GRAY	
M11	PLT0067	COVER - BOTTOM - TX	1	ABS	LIGHT GRAY	
M12	PLT0068	LENS - RX	1	PC	DARK BLUE	
M13	PLT0069	CABINET - UP - RX	1	ABS	LIGHT GRAY	
M14	PLT0070	CABINET - BOTTOM - RX	1	ABS	LIGHT GRAY	
M15	PLT0071	DOOR - BATTERY - RX	2	ABS	LIGHT GRAY	
M16	PLT0072	CLIP - RX	1	ABS	LIGHT GRAY	
M17	SCR0035	SCREW SELF TAPPING M2.0X6mmL, BT, FH	1	STEEL	ORIGINAL	FOR CLIP
M18	SCR0036	SCREW SELF TAPPING M1.7X5mmL, BT, PH	4	STEEL	ORIGINAL	FOR RX PCB/TX LENS
M19	SCR0011	SCREW SELF TAPPING M1.7X8mmL, BT, PH	3	STEEL	BLACK	FOR RX
M20	SCR0008	SCREW SELF TAPPING M2.0X6mmL, BT, PH	6	STEEL	BLACK	FOR TX
M21	PAK0058	POLY BAG 100mmHX40mmW	1		CLEAR	FOR EARPHONE
M22	PAK0062	MASTER CARTON	0.042	E CARD	ORIGINAL	
M23	PAK0063	POLY BAG 65mmWX100mmH	1		CLEAR	FOR RX
M24	PAK0064	POLY BAG 150mmWX150mmH	1		CLEAR	FOR TX
M25	MEC0001	COVER PLATE - FOR SWITCH	2		BLACK	FOR BOTH SWITCH
M26	MEC0068	NECK ROPE DIA. 2mm 920mmL	1	NYLON	LIGHT GRAY	
M27	LAB0008	LABEL "MADE IN CHINA" 5X15mm	2	PAPER	PRINTING	FOR UNIT
M28	LAB0009	LABEL "QC PASS"	2	EGG-STICKER	CLEAR	
M29	LAB0035	LABEL "CE" SMALL	2	PAPER	BLACK	FOR UNIT
M30	LAB0040	LABEL - ADAPTOR STANDARD 45mm(W)X9mm(H)	1	PAPER	BLACK	FOR BOX



R1,4,18	560ohm	R21	100K	C9	100PF50V	IC1	BA3308	D1	ZENER 3.0V
R2,3	18K	R23	220K	C10,17	10PF50V	IC2	NJM2035	D2	VC DIODE BB910
R5,6	1.5K	R24	680ohm	C11	220PF50V	IC3	MC14011B	D3	ZENER 10V
R7,8,22	22K	R25	47K	C13	220UF6.3V			D5-10	IR LED
R9,10,16	10K	R27	1.8K	C15	330PF50V	Q1,2	9014D		
R11	3.3M	R29	10ohm	C16	35PF50V	Q3	9018G	XT	CRYSTAL 38KHz
R12,13	68K	R30,31	22ohm	C18	3PF50V	Q4	2SD1468S	T1	OSC COIL
R14	470ohm			C20	0.02UF50V				
R15	150K			C21	68PF50V	SW	1P2T		
R17	820K			C22	47PF50V	VR1	50K SEMI FIXED		
R19,26	6.8K			C23,25,27	220UF16V				
R20,28	3.3K			C24,26	0.1UF25V				
		C1,2	2.2UF16V						
		C3,4,6,12,14	10UF16V						
		C5	47UF16V						
		C7,8,19	1000PF50V						

TEAMWAY LIMITED
 DES. : TX CIRCUIT DIAGRAM
 MODEL : IR550
 VER : 05
 P/N
 DATE : 31 JULY 1996



R1,6,14
R2,8
R3,4
R5
R7
R9
R10
R11
R15
R16

C1,14
C2
C3,26,27

RES 2.2K
RES 100ohm
RES 3.3K
RES 100K
RES 22ohm
RES 680ohm
RES 330K
RES 68ohm
RES 330ohm
RES 33ohm

CAP 4.7UF16V
CAP 0.47UF50V
CAP 1UF50V

C4,13,23
C5,6
C7
C8
C9
C10
C11
C12
C15
C16,18
C17
C19
C20
C21
C22
C28,29,30
C31

CAP 10UF16V
CAP 0.02UF50V
CAP 3.3UF35V
CAP 100UF4V
CAP 22PF50V
CAP 3PF50V
CAP 33UF6.3V
CAP 80PF50V
CAP 0.01UF50V
CAP 1000PF50V
CAP 390PF50V
CAP 0.047UF50V
CAP 12PF50V
CAP 47PF50V
CAP 0.1UF25V
CAP 220UF4V
CAP TRIMMER 20PF

IC1
IC2

T1
T2
L1,3
L2
L4

FL1
FL2

D1,2
D3

IC CXA1238M
TDA7050T

5.5UH
63UH
68UH
47UH
39UH

DISCRIMINATOR
FILTER 10.7MHz

IR SENSOR
LED 3mm RED

VR1
VR2

SW

Q1
Q2

SEMI FIXED 10K
VR 10K(DUAL)

SW 1P2T

2SK192A
2SC2603F

TEAMWAY LIMITED
DES. : RX CIRCUIT
MODEL : IR550
VER : 05
P/N :
DATE : 29 JAN 1997