

CIRCUIT SYMBOL	PARTS NUMBER	DESCRIPTION	FOR MODEL : TK-190 <X57-6080-10> TX-RX UNIT
D1	DTZ4.3(A)	ZENER DIODE, VOLTAGE PROTECTION	
D2	XB15A709	DIODE, ANT SWITCH	
D3	XB15A709	DIODE, ANT SWITCH	
D102	DAN235E	DIODE, TX/RX SWITCH	
D201	KV1460	VARIABLE CAPACITANCE DIODE, VARACTOR TUNING	
D203	KV1460	VARIABLE CAPACITANCE DIODE, VARACTOR TUNING	
D207	KV1460	VARIABLE CAPACITANCE DIODE, VARACTOR TUNING	
D301	MA742	DIODE, NOISE DETECTION	
D400	1SR154-400	DIODE, REVERSE PROTECTION	
D401	MA2S111	DIODE, OVERLOAD PROTECTION	
D402	NNCD6.8G	ZENER DIODE, SURGE ABSORPTION	
D403	NNCD6.8G	ZENER DIODE, SURGE ABSORPTION	
D404	1SS301	DIODE, RECTIFICATION	
D405	1SS301	DIODE, RECTIFICATION	
D409	MA2S111	DIODE, VOLTAGE REFERENCE	
D601	MA742	DIODE, VOLTAGE CLAMP	
IC1	M62354GP	IC, D/A CONVERTER	
IC2	NJM2904V	IC, APC COMPARATOR	
IC101	LMX2332LTMX	ANALOG IC, PLL	
IC200	GN2011(Q)	IC, ACTIVE DBM	
IC300	TA31136FN	IC, FM IF SYSTEM	
IC301	TC7S66FU	IC, AUDIO MUTE SWITCH	
IC400	BU4094BCFV	IC, SHIFT RESISTER	
IC401	TK11250BM	IC, VOLTAGE REGULATOR	
IC402	TK11250BM	IC, VOLTAGE REGULATOR	
IC403	BU4094BCFV	IC, SHIFT RESISTER	
IC404	BU4094BCFV	IC, SHIFT RESISTER	
IC405	BU4094BCFV	IC, SHIFT RESISTER	
IC406	784214GC0618EU	MPU, MICROPROCESSOR	
IC407	RN5VL54A	IC, VOLTAGE DETECTOR	
IC409	PST9132NR	IC, VOLTAGE DETECTOR	
IC412	AT2408N10SI2.5	IC, EEPROM	
IC413	TC75W51FU	IC, ACTIVE FILTER	
IC414	AT29C020-90TI	IC, FLASH ROM	
IC415	TC7S02F	IC, ADDRESS DECODER	
IC416	TC7WU04FU	IC, BUFFER AMP.	
IC417	TC7S04FU	IC, BUFFER AMP.	
IC600	LC73872M	IC, DTMF DECODER	
IC601	TC75W51FU	IC, BUFFER AMP.	
IC602	TA75W01FU	IC, ACTIVE FILTER	
IC603	M62364FP	IC, D/A CONVERTER	
IC604	TC75W51FU	IC, SUMMING/BUFFER AMP.	
IC606	TC75W51FU	IC, ACTIVE FILTER	
IC607	TC35453F	IC, AUDIO PROCESSOR	
Q1	2SC3356(R24)	TRANSISTOR, RF DRIVE AMP.	
Q2	2SK3074	FET, RF DRIVE AMP.	
Q4	DTC114EE	TRANSISTOR, DC SWITCH	
Q5	2SK1824	FET, DC SWITCH	
Q7	HN1L02FU	FET, ANT SW CONTROL	
Q8	HN1L02FU	FET, TX POWER CONTROL	
Q32	2SC4649(N,P)	TRANSISTOR, RF PRE DRIVE AMP.	
Q101	2SC4617(S)	TRANSISTOR, RIPPLE FILTER	
Q102	3SK131(L)	FET, TX MIXER	

Q103	2SC4649(N,P)	TRANSISTOR, RF AMP.
Q104	2SC4617(R)	TRANSISTOR, RF AMP.
Q105	2SC4617(R)	TRANSISTOR, RF AMP.
Q106	2SC4649(N,P)	TRANSISTOR, RF AMP.
Q200	3SK131(L)	FET, RF AMP.
Q302	2SK1215(E)	FET, IF AMP.
Q304	2SC4617(S)	TRANSISTOR, NOISE AMP.
Q400	UMG3N	TRANSISTOR, DC SWITCH
Q401	2SK1824	FET, DC SWITCH
Q402	2SA1362(Y)	TRANSISTOR, DC SWITCH
Q403	2SJ243	FET, DC SWITCH
Q404	DTC144EE	TRANSISTOR, DC SWITCH
Q405	DTB123YK	TRANSISTOR, DC SWITCH
Q406	DTA123JE	TRANSISTOR, DC SWITCH
Q407	DTA123JE	TRANSISTOR, DC SWITCH
Q408	2SC4617(S)	TRANSISTOR, DC SWITCH
Q409	2SC4617(S)	TRANSISTOR, DC SWITCH
Q410	2SC4617(S)	TRANSISTOR, DC SWITCH
Q411	2SB1132(Q,R)	TRANSISTOR, CURRENT DRIVER
Q413	HN1L02FU	FET, DC SWITCH
Q414	2SK1824	FET, DC SWITCH
Q415	2SJ517	FET, DC SWITCH
Q416	SK1824	FET, DC SWITCH
Q601	2SK1824	FET, MUTE SWITCH
Q602	2SK1824	FET, DC SWITCH

CIRCUIT SYMBOL	PARTS NUMBER	DESCRIPTION	FOR MODEL : TK-190 <X53-3930-10> CONTROL UNIT
D2	DTZ3.9(B)	ZENER DIODE, AVR	
D12	MA2S111	DIODE, ERROR PROTECTION FOR PF KEY	
D13	MA2S111	DIODE, ERROR PROTECTION FOR PF KEY	
D15	MA2S111	DIODE, ERROR PROTECTION FOR PF KEY	
D16	IMN10	DIODE, ERROR PROTECTION FOR PF KEY	
D19	MA2S111	DIODE, ERROR PROTECTION FOR PF KEY	
D20	MA2S111	DIODE, ERROR PROTECTION FOR PF KEY	
D101	1SS373	DIODE, SPEED UP	
D102	B30-2210-05	LED, LCD BACKLIGHT	
D103	B30-2210-05	LED, LCD BACKLIGHT	
D104	B30-2019-05	LED	
IC1	TDA7053AT	IC, AUDIO POWER AMP.	
IC2	BU4094BCFV	IC, OUTPUT EXPANDER	
IC3	NJM2904V	IC, MIC NOISE CANCELING CIRCUIT	
IC4	TC7SH08FU	IC, CONTROL SWITCH	
IC5	TC7SH08FU	IC, CONTROL SWITCH	
IC6	TC7SH08FU	IC, CONTROL SWITCH	
IC10	TC7W04FU	IC, CONTROL SWITCH	
IC101	LC75824W	IC, LCD DRIVER	
Q5	2SC4617(S)	TRANSISTOR, AUDIO SWITCH	
Q6	2SB798(DL,DK)	TRANSISTOR, AVR	
Q7	2SK1824	FET, AUDIO MUTE SWITCH	
Q8	2SK1824	FET, AUDIO MUTE SWITCH	
Q14	UMC4	TRANSISTOR, N/C SWITCH	
Q15	2SK1824	FET, AUDIO MUTE SWITCH	

CIRCUIT SYMBOL	PARTS NUMBER	DESCRIPTION	FOR MODEL : TK-190 <X45-3610-10> FINAL UNIT
Q1	2SK3075	FET,FINAL AMP.	
Q2	2SK3075	FET,FINAL AMP.	