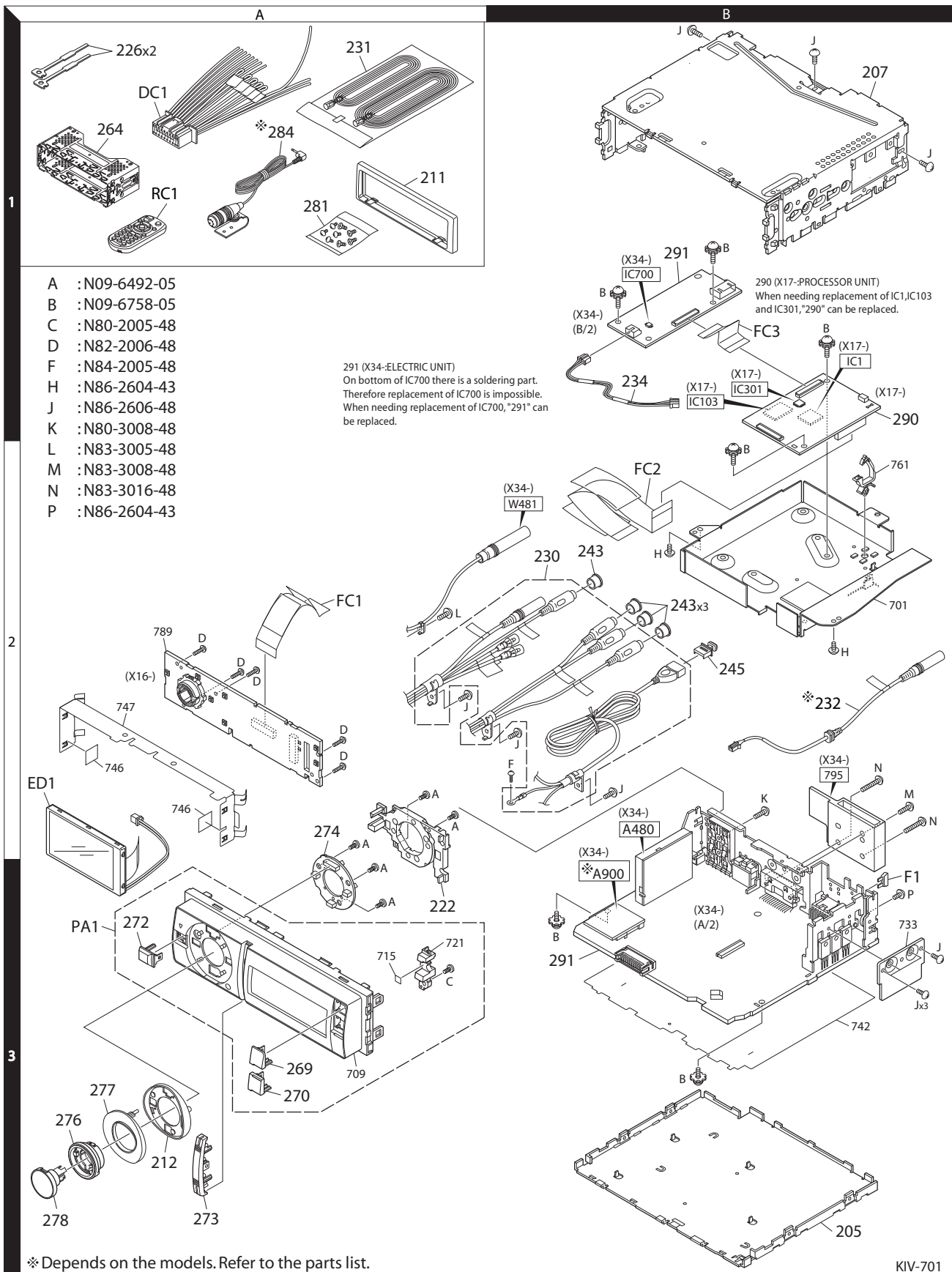




Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
KIV-701/BT901					
205	3B		A40-1362-42	BOTTOM PLATE	
207	1B		A52-1151-01	TOP COVER	
PA1	3A *		A64-5268-11	PANEL ASSY	K
PA1	3A *		A64-5269-11	PANEL ASSY	K1
RC1	1A		A70-2104-05	REMOTE CONTROLLER ASSY (RC-405)	
-	*		B59-2071-00	SUB-INST. MANUAL (ENG.FRE.SPA.)	
211	1A		B07-3245-01	ESCUTCHEON (ACCESSORY)	
212	3A		B07-3338-03	ESCUTCHEON (MENU)	
222	3A		B19-2563-02	LIGHTING BOARD	
ED1	2A		B38-1221-05	LCD (TFT 320X240 QVGA)	
226	1A		D10-7106-04	LEVER	
230	2B *		E30-8229-05	CORD WITH CONNECTOR (8-CORD)	
231	1A *		E30-8235-05	CONNECTING CORD ASSY (2m/5m)	
232	2B		E30-6832-05	CORD WITH CONNECTOR (MIC)	K
234	1B *		E39-1239-05	WIRING HARNESS	
⚠ DC1	1A		E30-6939-05	DC CORD	
FC1	2A		E39-1151-05	FLAT CABLE (X17-X16)	
FC2	2B		E39-1152-25	FLAT CABLE (X17-X34)	
FC3	1B		E39-1153-05	FLAT CABLE (X17-X34)	
243	2B		F29-0626-04	INSULATING COVER (RCA)	
245	2B		F09-2929-04	CAP (USB)	
⚠ F1	3B		F52-0023-05	FUSE (MINI BLADE TYPE) (10A)	
-	*		H54-5108-03	ITEM CARTON CASE	K
-	*		H54-5109-03	ITEM CARTON CASE	K1
264	1A		J22-0789-03	MOUNTING HARDWARE ASSY	
269	3A		K24-5057-13	PUSH KNOB (SEARCH MODE)	
270	3A		K24-5123-03	PUSH KNOB (TEL)	K
270	3A *		K24-5136-03	PUSH KNOB (iPod)	K1
272	3A		K24-5068-03	PUSH KNOB (SRC)	
273	3A		K25-1988-03	PUSH KNOB (DISP/SCRL)	
274	2A		K28-0403-13	KNOB BASE (MENU)	
276	3A		K28-0407-14	KNOB ASSY (VOL)	
277	3A		K28-0418-03	KEY TOP (MENU)	
278	3A		K28-0422-14	KNOB ASSY (KENWOOD)	
281	1A		N99-1757-15	SCREW SET	
A	2A		N09-6492-05	TAPTITE SCREW	
B	1B		N09-6758-05	TAPTITE SCREW	
C	3A		N80-2005-48	PAN HEAD TAPTITE SCREW	
D	2A		N82-2006-48	BINDING HEAD TAPTITE SCREW	
F	2B		N84-2005-48	PAN HEAD TAPTITE SCREW	
H	2B		N86-2604-43	BINDING HEAD TAPTITE SCREW	
J	1B		N86-2606-48	BINDING HEAD TAPTITE SCREW	
284	1A		W01-1768-15	MICROPHONE (3m)	K
290	1B *		X17-2080-11	PROCESSOR UNIT (for IC1,103,301)	
291	3B *		X34-7080-10	ELECTRIC UNIT (for IC700)	K
291	3B *		X34-7080-11	ELECTRIC UNIT (for IC700)	K1
SWITCH UNIT (X16-6880-10)					
D1			B30-1566-05	LED (1608,RED)	
D3 -6			B30-1798-05	LED (RGB MPX A,B,C,D)	
Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
C1			CK73GB1A105K	CHIP C 1.0UF K	
C2			CE32BJ1C100M	CHIP EL 10UF 16WV	
C3 ,4			CK73EB1A475K	CHIP C 4.7UF K	
C5			CE32BJ1V100M	CHIP EL 10UF 35WV	
C6			CE32BJ1C100M	CHIP EL 10UF 16WV	
C7			CK73EB1A475K	CHIP C 4.7UF K	
C8 -10			CK73GB1C225K	CHIP C 2.2UF K	
C11			CE32BJ1C100M	CHIP EL 10UF 16WV	
C12			CK73GB1C225K	CHIP C 2.2UF K	
C13			CE32BJ1V100M	CHIP EL 10UF 35WV	
C14			CK73EB1A475K	CHIP C 4.7UF K	
C18 ,19			CK73GB1H103K	CHIP C 0.010UF K	
C20			CK73GB1H104K	CHIP C 0.10UF K	
C22			CK73GB1H102K	CHIP C 1000PF K	
CN1			E41-3192-05	FLAT CABLE CONNECTOR	
CN2			E41-3213-05	PIN ASSY	
CN3			E41-3192-05	FLAT CABLE CONNECTOR	
CN4			E41-2896-05	PIN ASSY	
R1			RK73GB2A331J	CHIP R 330 J 1/10W	
R2			RK73EB2E151J	CHIP R 150 J 1/4W	
R3			RK73EB2E301J	CHIP R 300 J 1/4W	
R4			RK73EB2E161J	CHIP R 160 J 1/4W	
R5			RK73EB2E331J	CHIP R 330 J 1/4W	
R6			RK73EB2E391J	CHIP R 390 J 1/4W	
R7 ,8			RK73EB2E331J	CHIP R 330 J 1/4W	
R9			RK73EB2E391J	CHIP R 390 J 1/4W	
R10			RK73EB2E331J	CHIP R 330 J 1/4W	
R11 -13			RK73GB2A681J	CHIP R 680 J 1/10W	
R15 ,16			RK73GB2A101J	CHIP R 100 J 1/10W	
R20			RK73GB2A223J	CHIP R 22K J 1/10W	
R21			RK73GB2A821J	CHIP R 820 J 1/10W	
R22 ,23			RK73EB2E150J	CHIP R 15 J 1/4W	
R24			RK73EB2E200J	CHIP R 20 J 1/4W	
R25 -33			RK73GB2A101J	CHIP R 100 J 1/10W	
R37			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R38			RK73GB2A220J	CHIP R 22 J 1/10W	
W1 -9			R92-2053-05	CHIP R 0 OHM J 1/8W	
S2			S70-0960-05	TACT SWITCH	
S4 -6			S70-0960-05	TACT SWITCH	
S8 -13			S70-0960-05	TACT SWITCH	
S1			T99-0488-05	ROTARY ENCODER	
D7			DA204U	DIODE	
D15			FTZ6.8E	ZENER DIODE	
D16 -18			UDZW6.8(B)	ZENER DIODE	
IC1			PIC95603	ANALOGUE IC	
Q1			RT1N436M-T111	TRANSISTOR	
Q3 -5			RT1N237M-T111	TRANSISTOR	
Q6 -8			RT1N436M-T111	TRANSISTOR	
Q9			RT1N144M-T111	TRANSISTOR	
Q10			2SA1577	TRANSISTOR	
PROCESSOR UNIT (X17-2080-11)					
C1 ,2			CC73HCH1H100D	CHIP C 10PF D	
C3 -13			CK73HB1A104K	CHIP C 0.10UF K	

K: KIV-BT901 K1: KIV-701

⚠ indicates safety critical components.

PARTS LIST

PROCESSOR UNIT (X17-2080-11)

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
C14			CK73HB0J105K	CHIP C 1.0UF K	
C15			CK73HB1A104K	CHIP C 0.10UF K	
C16 ,17			CK73HB1H102K	CHIP C 1000PF K	
C18			CK73HB1A104K	CHIP C 0.10UF K	
C19			CK73HB1H102K	CHIP C 1000PF K	
C20			CK73HB1A104K	CHIP C 0.10UF K	
C21			CK73HB1H102K	CHIP C 1000PF K	
C22 -24			CK73HB1A104K	CHIP C 0.10UF K	
C25 -27			CK73HB0J105K	CHIP C 1.0UF K	
C30			CK73HB0J105K	CHIP C 1.0UF K	
C41			CK73HB1A104K	CHIP C 0.10UF K	
C51			CK73GB1A105K	CHIP C 1.0UF K	
C61			CK73GB1A105K	CHIP C 1.0UF K	
C62			CK73FB0J106K	CHIP C 10UF K	
C71			CK73HB1A104K	CHIP C 0.10UF K	
C72			CK73FB0J106K	CHIP C 10UF K	
C73			CC73HCH1H101J	CHIP C 100PF J	
C100			CK73HB0J105K	CHIP C 1.0UF K	
C101-107			CK73HB1A104K	CHIP C 0.10UF K	
C108			CK73HB0J105K	CHIP C 1.0UF K	
C109-115			CK73HB1A104K	CHIP C 0.10UF K	
C121			CK73HB1A104K	CHIP C 0.10UF K	
C142			CK73HB0J105K	CHIP C 1.0UF K	
C201			CK73FB0J106K	CHIP C 10UF K	
C202			CK73HB1A104K	CHIP C 0.10UF K	
C203			CK73FB0J106K	CHIP C 10UF K	
C205			CK73HB1H102K	CHIP C 1000PF K	
C215,216			CK73HB1H222K	CHIP C 2200PF K	
C301			CK73GB1H104K	CHIP C 0.10UF K	
C302			CK73FB0J106K	CHIP C 10UF K	
C303			CK73HB1A104K	CHIP C 0.10UF K	
C304			CK73FB0J106K	CHIP C 10UF K	
C305			CK73GB1H104K	CHIP C 0.10UF K	
C306			CK73FB0J106K	CHIP C 10UF K	
C307			CK73HB1A104K	CHIP C 0.10UF K	
C308			CK73FB0J106K	CHIP C 10UF K	
C309			CK73HB1A104K	CHIP C 0.10UF K	
C310			CK73HB1E103K	CHIP C 0.010UF K	
C311			CK73GB1H333K	CHIP C 0.033UF K	
C312,313			CK73HB1A104K	CHIP C 0.10UF K	
C314-316			CK73HB1E103K	CHIP C 0.010UF K	
C317,318			CC73HCH1H060D	CHIP C 6.0PF D	
C319			CC73GCH1H221J	CHIP C 220PF J	
C421			CK73HB1A104K	CHIP C 0.10UF K	
CN201			E41-2264-05	PIN ASSY	
CN501,502			E41-3192-05	FLAT CABLE CONNECTOR	
CN503			E41-3207-05	FLAT CABLE CONNECTOR	
L25 -30			L92-0615-05	CHIP FERRITE	
L501-509			L92-0838-05	CHIP FERRITE	
X1			L77-2908-05	CRYSTAL RESONATOR (12.000MHZ)	
X301			L77-2916-05	CRYSTAL RESONATOR (24.576MHZ)	
CP3 -6			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP7			RK74HB1J100J	CHIP-COM 10 J 1/16W	
CP9 -12			RK74HB1J100J	CHIP-COM 10 J 1/16W	
CP13-20			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP21,22			RK74HB1J473J	CHIP-COM 47K J 1/16W	
CP23			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP24			RK74HB1J331J	CHIP-COM 330 J 1/16W	
CP28			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP51-57			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP60,61			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP63-69			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP71,72			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP86-89			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP90			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP102,103			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP301,302			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP601,602			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP603			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP605			RK74HB1J220J	CHIP-COM 22 J 1/16W	
R1			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R2			RK73GB2A515J	CHIP R 5.1M J 1/10W	
R3 ,4			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R7			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R11			RK73HB1J100J	CHIP R 10 J 1/16W	
R12 -15			RK73HB1J220J	CHIP R 22 J 1/16W	
R16			RK73HB1J100J	CHIP R 10 J 1/16W	
R28 ,29			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R37			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R52			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R61 ,62			RK73PB2H2R2J	CHIP R 2.2 J 1/2W	
R91			RK73HB1J223J	CHIP R 22K J 1/16W	
R92			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R102			RK73HB1J223J	CHIP R 22K J 1/16W	
R103-107			RK73HB1J220J	CHIP R 22 J 1/16W	
R108			RK73HB1J223J	CHIP R 22K J 1/16W	
R109			RK73HB1J473J	CHIP R 47K J 1/16W	
R111-113			RK73HB1J220J	CHIP R 22 J 1/16W	
R115-117			RK73HB1J220J	CHIP R 22 J 1/16W	
R202,203			RK73HB1J101J	CHIP R 100 J 1/16W	
R205			RK73HB1J101J	CHIP R 100 J 1/16W	
R209			RK73HB1J100J	CHIP R 10 J 1/16W	
R211,212			RK73HB1J471J	CHIP R 470 J 1/16W	
R213,214			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R217-220			RK73HB1J510J	CHIP R 51 J 1/16W	
R301			RK73GB2A300J	CHIP R 30 J 1/10W	
R302,303			RK73HB1J220J	CHIP R 22 J 1/16W	
R304-306			RK73HB1J101J	CHIP R 100 J 1/16W	
R307			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R308			RK73GH2A682D	CHIP R 6.8K D 1/10W	
R309-313			RK73HB1J223J	CHIP R 22K J 1/16W	
R314,315			RK73HB1J101J	CHIP R 100 J 1/16W	
R316			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R331,332			RK73HB1J220J	CHIP R 22 J 1/16W	
R341			RK73GB2A470J	CHIP R 47 J 1/10W	
R342,343			RK73HB1J220J	CHIP R 22 J 1/16W	
R401,402			RK73HB1J100J	CHIP R 10 J 1/16W	
R411			RK73HB1J223J	CHIP R 22K J 1/16W	
R414			RK73GH2A430D	CHIP R 43 D 1/10W	

K: KIV-BT901 K1: KIV-701

▲ indicates safety critical components.

PARTS LIST

PROCESSOR UNIT (X17-2080-11)

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
R415			RK73HB1J223J	CHIP R 22K J 1/16W	
R416			RK73GB2A1R2J	CHIP R 1.2 J 1/10W	
R419			RK73HB1J101J	CHIP R 100 J 1/16W	
R421,422			RK73HB1J223J	CHIP R 22K J 1/16W	
R427,428			RK73HB1J101J	CHIP R 100 J 1/16W	
R429,430			RK73HB1J332J	CHIP R 3.3K J 1/16W	
R501			RK73HB1J560J	CHIP R 56 J 1/16W	
R503			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R504-506			RK73HB1J332J	CHIP R 3.3K J 1/16W	
R507,508			RK73HB1J392J	CHIP R 3.9K J 1/16W	
R509-512			RK73HB1J560J	CHIP R 56 J 1/16W	
R513			RK73HB1J151J	CHIP R 150 J 1/16W	
R514-521			RK73HB1J221J	CHIP R 220 J 1/16W	
R522			RK73HB1J220J	CHIP R 22 J 1/16W	
R523-534			RK73HB1J223J	CHIP R 22K J 1/16W	
R535,536			RK73HB1J332J	CHIP R 3.3K J 1/16W	
R537,538			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R539			RK73HB1J331J	CHIP R 330 J 1/16W	
D401,402			LVS10C270S030	VARISTOR	
IC1	1B		Impossible to replace	MOS-IC (See exploded view)	
IC51			XC6209B502P1	ANALOGUE IC	
IC61			XC6219F132P1	ANALOGUE IC	
IC71			S-1132B18U5T1G	ANALOGUE IC	
IC100,101		*	M12L1281685TL	DRAM IC	
IC103	1B		No stock	ROM IC (See exploded view)	
IC201			PCM1754DB	MOS-IC	
IC301	1B		Impossible to replace	MOS-IC (See exploded view)	
IC402			MFI341S2162	MICROPROCESSOR IC	
Q91			2SA1576A	TRANSISTOR	
Q92			DTC114YUA	DIGITAL TRANSISTOR	
Q501,502			DTC124EUA	DIGITAL TRANSISTOR	
ELECTRIC UNIT (X34-7080-1x)					
C2			CD04AZ1C332M2	ELECTRO 3300UF 16WV	
C10			CD04AY1A221M	ELECTRO 220UF 10WV	
C12			CK73GB1A105K	CHIP C 1.0UF K	
C20,21			CK73GB1A105K	CHIP C 1.0UF K	
C30			CD04AJ1C101M	ELECTRO 100UF 16WV	
C31			CK73FB0J106K	CHIP C 10UF K	
C33			C90-6851-05	ELECTRO 220UF 25WV	
C41			CD04AZ1C332M2	ELECTRO 3300UF 16WV	
C43			CD04AZ1C332M2	ELECTRO 3300UF 16WV	
C50			CD04AS1C220M	ELECTRO 22UF 16WV	
C71			CK73FB0J226M	CHIP C 22UF M	
C72			CK73GB1H104K	CHIP C 0.10UF K	
C73			CK73EB1H475K	CHIP C 4.7UF K	
C74			CK73GB1H222K	CHIP C 2200PF K	
C75			CK73GB1A105K	CHIP C 1.0UF K	
C76			CK73GB1H104K	CHIP C 0.10UF K	
C77			CC73GCH1H270J	CHIP C 27PF J	
C78			CK73GB1H104K	CHIP C 0.10UF K	
C79			CK73GB1H103K	CHIP C 0.010UF K	
C80			CK73GB1H104K	CHIP C 0.10UF K	
C81,82			CK73GB1H102K	CHIP C 1000PF K	
C83			CD04AS1V100M	ELECTRO 10UF 35WV	

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
C84			CD04AS1C220M	ELECTRO 22UF 16WV	
C86			CK73GB1H104K	CHIP C 0.10UF K	
C87			CC73GCH1H471J	CHIP C 470PF J	
C92			CK73GB1H103K	CHIP C 0.010UF K	
C95			CC73GCH1H020C	CHIP C 2.0PF C	
C110			CK73GB1H104K	CHIP C 0.10UF K	
C111			CK73GB1A105K	CHIP C 1.0UF K	
C112			CK73FB1A335K	CHIP C 3.3UF K	
C131			CK73GB1A105K	CHIP C 1.0UF K	
C132			CK73GB1H223K	CHIP C 0.022UF K	
C133			CK73GB1H103K	CHIP C 0.010UF K	
C170,171			CK73GB1H103K	CHIP C 0.010UF K	K
C200-203			CK73GB1H472K	CHIP C 4700PF K	
C204			CK73GB1A105K	CHIP C 1.0UF K	
C206			CD04BA1E330M	ELECTRO 33UF 25WV	
C208			CK73GB1C224K	CHIP C 0.22UF K	
C210			CK73GB1C224K	CHIP C 0.22UF K	
C212			CK73GB1C224K	CHIP C 0.22UF K	
C214			CK73GB1C224K	CHIP C 0.22UF K	
C217			CK73FB1C105K	CHIP C 1.0UF K	
C218-221			CK73GB1H472K	CHIP C 4700PF K	
C222			CK73GB1A105K	CHIP C 1.0UF K	
C240,241			CK73GB1A105K	CHIP C 1.0UF K	
C242-247			CK73GB1H103K	CHIP C 0.010UF K	
C249			CK73GB0J225K	CHIP C 2.2UF K	
C250			CD04AS1V100M	ELECTRO 10UF 35WV	
C251			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C253-256			CK73GB1H103K	CHIP C 0.010UF K	
C257			CC73GCH1H120J	CHIP C 12PF J	
C259			CC73GCH1H120J	CHIP C 12PF J	
C260			CK73GB1A105K	CHIP C 1.0UF K	
C261			CK73GB1A474K	CHIP C 0.47UF K	
C262			CK73GB1A105K	CHIP C 1.0UF K	
C263			CK73GB1A474K	CHIP C 0.47UF K	
C264-266			CK73GB1A105K	CHIP C 1.0UF K	
C267,268			CC73GCH1H680J	CHIP C 68PF J	
C271,272			CK73GB1A105K	CHIP C 1.0UF K	
C276			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	
C277			CK73GB1H103K	CHIP C 0.010UF K	
C280-285			CK73GB1A105K	CHIP C 1.0UF K	
C286			CD04AS1C470M	ELECTRO 47UF 16WV	
C288,289			CK73GB1A105K	CHIP C 1.0UF K	
C291			CC73GCH1H680J	CHIP C 68PF J	
C300			CK73GB1H104K	CHIP C 0.10UF K	
C302,303			CC73GCH1H220J	CHIP C 22PF J	
C304			CK73GB1H103K	CHIP C 0.010UF K	
C305			CK73GB1A105K	CHIP C 1.0UF K	
C306			CK73GB1H103K	CHIP C 0.010UF K	
C307			CK73GB1H102K	CHIP C 1000PF K	
C310			CK73GB1H103K	CHIP C 0.010UF K	
C313			CD04AS0J221M	ELECTRO 220UF 6.3WV	
C314,315			CK73GB1H103K	CHIP C 0.010UF K	
C316			CK73GB1H104K	CHIP C 0.10UF K	
C335			CK73GB1A105K	CHIP C 1.0UF K	
C336,337			CK73GB0J475K	CHIP C 4.7UF K	

K: KIV-BT901 K1: KIV-701

▲ indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-7080-1x)

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
C400			CK73FB1E474K	CHIP C 0.47UF K	
C401			CD04AT0J470M	ELECTRO 47UF 6.3WV	
C402			CK73FB1E474K	CHIP C 0.47UF K	
C404			CK73GB1H103K	CHIP C 0.010UF K	
C420			CK73GB1H222K	CHIP C 2200PF K	
C440			CD04AS1V100M	ELECTRO 10UF 35WV	
C441,442			CC73GCH1H101J	CHIP C 100PF J	
C443			CD04AS1V100M	ELECTRO 10UF 35WV	
C450			CD04AS1V100M	ELECTRO 10UF 35WV	
C451,452			CC73GCH1H101J	CHIP C 100PF J	
C453			CD04AS1V100M	ELECTRO 10UF 35WV	
C460			CD04AS1V100M	ELECTRO 10UF 35WV	
C461,462			CC73GCH1H101J	CHIP C 100PF J	
C463			CD04AS1V100M	ELECTRO 10UF 35WV	
C470,471			CK73GB1A105K	CHIP C 1.0UF K	
C472			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C482-485			CK73GB1H103K	CHIP C 0.010UF K	
C502			CK73GB0J225K	CHIP C 2.2UF K	
C503			CC73GCH1H271J	CHIP C 270PF J	
C505			CK73GB1H103K	CHIP C 0.010UF K	
C506,507			CC73GCH1H120J	CHIP C 12PF J	
C523			CC73GCH1H030C	CHIP C 3.0PF C	
C551,552			CK73GB1H103K	CHIP C 0.010UF K	
C604			CK73GB1H104K	CHIP C 0.10UF K	K
C606			CK73FB0J106K	CHIP C 10UF K	K
C607,608			CC73GCH1H101J	CHIP C 100PF J	K
C610-612			CK73GB1H104K	CHIP C 0.10UF K	K
C613			CK73FB0J106K	CHIP C 10UF K	K
C616			CK73GB1H104K	CHIP C 0.10UF K	K
C631			C90-6989-05	ELECTRO 330UF 6.3WV	K
C634-636			CC73GCH1H101J	CHIP C 100PF J	K
C700			CD04BR1C221M	ELECTRO 220UF 16WV	
C701			CK73GB1H104K	CHIP C 0.10UF K	
C702			CK73EB1H475K	CHIP C 4.7UF K	
C703			CK73GB1A105K	CHIP C 1.0UF K	
C704			CK73GB1A474K	CHIP C 0.47UF K	
C705			CK73FB0J106K	CHIP C 10UF K	
C706			CK73GB1H332K	CHIP C 3300PF K	
C707			CK73GB1H102K	CHIP C 1000PF K	
C708			CD04AS1C220M	ELECTRO 22UF 16WV	
C709			CK73GB1H104K	CHIP C 0.10UF K	
C710			CD04AS1C220M	ELECTRO 22UF 16WV	
C711			CK73GB1H104K	CHIP C 0.10UF K	
C712			CD04AS1C220M	ELECTRO 22UF 16WV	
C713			CK73GB1H104K	CHIP C 0.10UF K	
C714			CD04AS1C220M	ELECTRO 22UF 16WV	
C715-718			CK73GB1A105K	CHIP C 1.0UF K	
C719			CK73GB1H103K	CHIP C 0.010UF K	
C721			CK73GB1H103K	CHIP C 0.010UF K	
C722-725			CK73GB1A105K	CHIP C 1.0UF K	
C726			CD04AS1C220M	ELECTRO 22UF 16WV	
C727			CK73GB1H103K	CHIP C 0.010UF K	
C729-731			CK73GB1H103K	CHIP C 0.010UF K	
C733			CK73GB1H103K	CHIP C 0.010UF K	
C737,738			CK73EB1A106K	CHIP C 10UF K	
C739			CD04AS1C220M	ELECTRO 22UF 16WV	
C740			CD04AS1C101M	ELECTRO 100UF 16WV	
C743-746			CK73GB1A105K	CHIP C 1.0UF K	
C747			CK73GB1H103K	CHIP C 0.010UF K	
C749			CK73GB1H103K	CHIP C 0.010UF K	
C751			CK73GB1H103K	CHIP C 0.010UF K	
C753			CK73GB1H103K	CHIP C 0.010UF K	
C754			CC73GCH1H101J	CHIP C 100PF J	
C755			CK73FB1C105K	CHIP C 1.0UF K	
C756			CK73GB0J225K	CHIP C 2.2UF K	
C758-762			CK73GB1H103K	CHIP C 0.010UF K	
C765			CK73GB1H103K	CHIP C 0.010UF K	
C768			CC73GCH1H100D	CHIP C 10PF D	
C769			CK73GB1H332K	CHIP C 3300PF K	
C770			CK73GB1H103K	CHIP C 0.010UF K	
C771			CC73GCH1H020C	CHIP C 2.0PF C	
C781			CK73GB1H104K	CHIP C 0.10UF K	
C782,783			CC73GCH1H470J	CHIP C 47PF J	
C784,785			CC73GCH1H220J	CHIP C 22PF J	
CN5			E41-1701-05	PIN ASSY	
CN6			E41-3192-05	FLAT CABLE CONNECTOR	
CN72			E40-9747-05	PIN ASSY	
CN602			E41-1699-05	PIN ASSY	K
CN701			E41-3192-05	FLAT CABLE CONNECTOR	
CN702		*	E41-3121-05	PIN ASSY	
CN705			E41-1701-05	PIN ASSY	
CN900			E41-3043-05	PIN ASSY	K
J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J400			E56-0855-05	CYLINDRICAL RECEPTACLE	
J420			E63-0972-05	PIN JACK	
J470			E11-0625-05	PHONE JACK	
W481		2B	E30-6438-05	CORD WITH PLUG	
F41			F53-0367-05	FUSE	
L1			L33-2436-05	CHOKE COIL ASSY	
L70			L33-2462-05	SMALL FIXED INDUCTOR	
L71			L92-0639-05	CHIP FERRITE	
L73			L92-0639-05	CHIP FERRITE	
L200-202			L92-0648-05	CHIP FERRITE	
L600			L92-0662-05	CHIP FERRITE	K
L601,602			L92-0810-05	CHIP FERRITE	K
L700			L92-0639-05	CHIP FERRITE	
L701			L33-2462-05	SMALL FIXED INDUCTOR	
L704			L92-0639-05	CHIP FERRITE	
L707,708			L92-0810-05	CHIP FERRITE	
L709		*	L92-0689-05	CHIP FERRITE	
L710			L92-0810-05	CHIP FERRITE	
L711-715		*	L92-0689-05	CHIP FERRITE	
L716-720			L92-0810-05	CHIP FERRITE	
L721,722		*	L92-0690-05	CHIP FERRITE	
L730			L92-0365-05	CHIP FERRITE	
X240			L77-3810-05	CRYSTAL RESONATOR (11.2896MHZ)	
X300			L78-0872-05	RESONATOR (12MHZ)	
X301			L77-2921-15	CRYSTAL RESONATOR (32.768KHZ)	

K: KIV-BT901 K1: KIV-701

▲ indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-7080-1x)

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
X500			L77-3825-05	CRYSTAL RESONATOR (4.332MHZ)	
K	2B		N80-3008-48	PAN HEAD TAPTITE SCREW	
L	2A		N83-3005-48	PAN HEAD TAPTITE SCREW	
M	2B		N83-3008-48	PAN HEAD TAPTITE SCREW	
N	2B		N83-3016-48	PAN HEAD TAPTITE SCREW	
P	3B		N86-2604-43	BINDING HEAD TAPTITE SCREW	
CP301-303			RK74HB1J101J	CHIP-COM 100 J 1/16W	K
CP304			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP306			RK74GA1J472J	CHIP-COM 4.7K J 1/16W	
CP501			RK74HB1J222J	CHIP-COM 2.2K J 1/16W	
R1 ,2			RK73EB2E103J	CHIP R 10K J 1/4W	
R3			RK73GB2A100JH	CHIP R 10 J 1/10W	
R10			RK73GH2A243D	CHIP R 24K D 1/10W	
R11			RK73GH2A432D	CHIP R 4.3K D 1/10W	
R12			RK73FB2B221J	CHIP R 220 J 1/8W	
R22			RK73GB2A1R0J	CHIP R 1.0 J 1/10W	
R30			RK73FB2B822J	CHIP R 8.2K J 1/8W	
R31			RK73GB2A223J	CHIP R 22K J 1/10W	
R33			RK73FB2B123J	CHIP R 12K J 1/8W	
R46			RK73GB2A300JH	CHIP R 30 J 1/10W	
R52			RK73FB2B272J	CHIP R 2.7K J 1/8W	
R67 ,68			RK73EB2E271J	CHIP R 270 J 1/4W	
R70			R92-5244-05	CHIP R 0.039	
R71			RK73GH2A273D	CHIP R 27K D 1/10W	
R72			RK73GH2A753D	CHIP R 75K D 1/10W	
R73			RK73GB2A752J	CHIP R 7.5K J 1/10W	
R74			RK73GH2A183D	CHIP R 18K D 1/10W	
R76			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R83			RK73GB2A362J	CHIP R 3.6K J 1/10W	
R84			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R85			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R86			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R87			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R90 ,91			RK73GB2A103J	CHIP R 10K J 1/10W	
R96			RK73GB2A183J	CHIP R 18K J 1/10W	
R97			RK73GB2A104J	CHIP R 100K J 1/10W	
R98			RK73FB2B203J	CHIP R 20K J 1/8W	
R99			RK73EB2E473J	CHIP R 47K J 1/4W	
R100			RK73FB2B683J	CHIP R 68K J 1/8W	
R101			RK73GB2A473J	CHIP R 47K J 1/10W	
R102-104			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R110,111			RK73PB2H561J	CHIP R 560 J 1/2W	
R112			RK73GB2A223J	CHIP R 22K J 1/10W	
R113,114			RK73PB2H561J	CHIP R 560 J 1/2W	
R115			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R116			RK73GB2A223J	CHIP R 22K J 1/10W	
R118,119			RK73PB2H221J	CHIP R 220 J 1/2W	
R120			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R130,131			RK73GB2A104J	CHIP R 100K J 1/10W	
R132			RK73GB2A473J	CHIP R 47K J 1/10W	
R160			RK73EB2E471J	CHIP R 470 J 1/4W	
R201			RK73GB2A333J	CHIP R 33K J 1/10W	
R202			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R208			RK73GB2A100JH	CHIP R 10 J 1/10W	
R209			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R210			RK73GB2A221J	CHIP R 220 J 1/10W	
R212,213			RK73GB2A223J	CHIP R 22K J 1/10W	
R214-217			RK73GB2A470J	CHIP R 47 J 1/10W	
R242-247			RK73GB2A101JH	CHIP R 100 J 1/10W	
R248			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R249			RK73EB2E2R2J	CHIP R 2.2 J 1/4W	
R260			RK73GB2A103J	CHIP R 10K J 1/10W	
R262,263			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R301			RK73GB2A101J	CHIP R 100 J 1/10W	
R302			RK73GB2A103J	CHIP R 10K J 1/10W	
R303,304			RK73GB2A104J	CHIP R 100K J 1/10W	
R306			RK73GB2A473J	CHIP R 47K J 1/10W	
R308,309			RK73GB2A473J	CHIP R 47K J 1/10W	
R312			RK73GB2A101J	CHIP R 100 J 1/10W	
R313			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R315			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R316			RK73GB2A473J	CHIP R 47K J 1/10W	
R317			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R319			RK73GB2A104J	CHIP R 100K J 1/10W	
R320			RK73GB2A101J	CHIP R 100 J 1/10W	
R321			RK73GB2A473J	CHIP R 47K J 1/10W	
R323			RK73GB2A473J	CHIP R 47K J 1/10W	
R324			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R325			RK73GB2A104J	CHIP R 100K J 1/10W	
R326			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R327,328			RK73GB2A104J	CHIP R 100K J 1/10W	
R330			RK73GB2A104J	CHIP R 100K J 1/10W	
R331			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R333			RK73GB2A104J	CHIP R 100K J 1/10W	
R335			RK73GB2A184J	CHIP R 180K J 1/10W	
R336			RK73GB2A471J	CHIP R 470 J 1/10W	
R338			RK73GB2A184J	CHIP R 180K J 1/10W	
R340			RK73GB2A473J	CHIP R 47K J 1/10W	
R341			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R352			RK73GB2A223J	CHIP R 22K J 1/10W	
R354			RK73GB2A223J	CHIP R 22K J 1/10W	
R356			RK73GB2A223J	CHIP R 22K J 1/10W	
R357			RK73GB2A223J	CHIP R 22K J 1/10W	
R358,359			RK73GB2A104J	CHIP R 100K J 1/10W	
R360			RK73GB2A203J	CHIP R 20K J 1/10W	
R361			RK73GB2A104J	CHIP R 100K J 1/10W	
R362			RK73GB2A473J	CHIP R 47K J 1/10W	
R363			RK73GB2A101J	CHIP R 100 J 1/10W	
R364,365			RK73GB2A103J	CHIP R 10K J 1/10W	
R366			RK73GB2A473J	CHIP R 47K J 1/10W	
R371			RK73GB2A202J	CHIP R 2.0K J 1/10W	
R400-404			RK73EB2E432J	CHIP R 4.3K J 1/4W	
R405			RK73EB2E101J	CHIP R 100 J 1/4W	
R406			RK73EB2E100J	CHIP R 10 J 1/4W	
R407			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R408			RK73EB2E100J	CHIP R 10 J 1/4W	
R409			RK73EB2E432J	CHIP R 4.3K J 1/4W	
R410			RK73EB2E101J	CHIP R 100 J 1/4W	
R440			RK73FB2B181J	CHIP R 180 J 1/8W	

K: KIV-BT901 K1: KIV-701

▲ indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-7080-1x)

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
R441			RK73GB2A331J	CHIP R 330 J 1/10W	
R442,443			RK73GB2A223J	CHIP R 22K J 1/10W	
R444			RK73FB2B181J	CHIP R 180 J 1/8W	
R445			RK73GB2A331J	CHIP R 330 J 1/10W	
R450			RK73FB2B181J	CHIP R 180 J 1/8W	
R451			RK73GB2A331J	CHIP R 330 J 1/10W	
R452,453			RK73GB2A223J	CHIP R 22K J 1/10W	
R454			RK73FB2B181J	CHIP R 180 J 1/8W	
R455			RK73GB2A331J	CHIP R 330 J 1/10W	
R460			RK73FB2B181J	CHIP R 180 J 1/8W	
R461			RK73GB2A331J	CHIP R 330 J 1/10W	
R462,463			RK73GB2A223J	CHIP R 22K J 1/10W	
R464			RK73FB2B181J	CHIP R 180 J 1/8W	
R465			RK73GB2A331J	CHIP R 330 J 1/10W	
R470			RK73EB2E101J	CHIP R 100 J 1/4W	
R471			RK73GB2A123J	CHIP R 12K J 1/10W	
R472			RK73EB2E101J	CHIP R 100 J 1/4W	
R473			RK73GB2A123J	CHIP R 12K J 1/10W	
R474			RK73EB2E470J	CHIP R 47 J 1/4W	
R475			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R480,481			RK73GB2A471J	CHIP R 470 J 1/10W	
R482			RK73FB2B821J	CHIP R 820 J 1/8W	
R483			RK73GB2A223J	CHIP R 22K J 1/10W	
R504			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R505			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R520			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R521-523			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R551,552			RK73GB2A473J	CHIP R 47K J 1/10W	
R553,554			RK73GB2A104J	CHIP R 100K J 1/10W	
R603			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	K
R606,607			RK73GB2A103J	CHIP R 10K J 1/10W	K
R610,611			RK73GB2A473J	CHIP R 47K J 1/10W	K
R612,613			RK73GB2A223J	CHIP R 22K J 1/10W	K
R614			RK73GB2A473J	CHIP R 47K J 1/10W	K
R617			RK73GB2A473J	CHIP R 47K J 1/10W	K
R620			RK73GB2A472J	CHIP R 4.7K J 1/10W	K
R633,634			RK73GB2A331J	CHIP R 330 J 1/10W	K
R635,636			RK73EB2E101J	CHIP R 100 J 1/4W	K
R701			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R702			RK73GB2A473J	CHIP R 47K J 1/10W	
R704			RK73GB2A123J	CHIP R 12K J 1/10W	
R705			RK73GH2A103D	CHIP R 10K D 1/10W	
R706,707			RK73GH2A333D	CHIP R 33K D 1/10W	
R709			RK73GH2A473D	CHIP R 47K D 1/10W	
R712,713			RK73GB2A331J	CHIP R 330 J 1/10W	
R714,715			RK73GB2A223J	CHIP R 22K J 1/10W	
R716,717			RK73FB2B181J	CHIP R 180 J 1/8W	
R718			RK73EB2E750J	CHIP R 75 J 1/4W	
R719			RK73GB2A750J	CHIP R 75 J 1/10W	
R720,721			RK73GB2A221J	CHIP R 220 J 1/10W	
R722-725			RK73GB2A101J	CHIP R 100 J 1/10W	
R726,727			RK73EB2E750J	CHIP R 75 J 1/4W	
R728-730			RK73EB2E101J	CHIP R 100 J 1/4W	
R733			RK73GB2A473J	CHIP R 47K J 1/10W	
R734			RK73EB2E103J	CHIP R 10K J 1/4W	
Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
R735			RK73GB2A473J	CHIP R 47K J 1/10W	
R736			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R737			RK73EB2E272J	CHIP R 2.7K J 1/4W	
R742			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R745			RK73GB2A300JH	CHIP R 30 J 1/10W	
R746			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R900			RK73GB2A100JH	CHIP R 10 J 1/10W	
D1			S2V60-5009F46	DIODE	
D30			UDZW5.6(B)	ZENER DIODE	
D31			D1FJ4	DIODE	
D41			1SR154-400	DIODE	
D51			1SS355	DIODE	
D52			UDZW10(B)	ZENER DIODE	
D70			CMS14	DIODE	
D80			1SR154-400	DIODE	
D82			RKZ5.6KG(B2)	ZENER DIODE	
D90			RKZ6.2KG(B2)	ZENER DIODE	
D92 ,93			RKZ6.8KG(B2)	ZENER DIODE	
D110			HSU119TRF-E	DIODE	
D111-114			1SR154-400	DIODE	
D130			RKZ4.7KG(B2)	ZENER DIODE	
D160			RKZ6.2KG(B2)	ZENER DIODE	
D200			MC2846-T111	DIODE	
D201			HSU119TRF-E	DIODE	
D263-265			MC2846-T111	DIODE	
D301,302			MC2846-T111	DIODE	
D351			HSU119TRF-E	DIODE	
D400,401			RKZ6.2KG(B2)	ZENER DIODE	
D403,404			RKZ6.2KG(B2)	ZENER DIODE	
D406			RKZ6.2KG(B2)	ZENER DIODE	
D408-410			RKZ6.8KG(B2)	ZENER DIODE	
D441			MC2846-T111	DIODE	
D461			MC2846-T111	DIODE	
D470,471			RKZ6.8KG(B2)	ZENER DIODE	
D472			UDZW6.8(B)	ZENER DIODE	
D532			DA204U	DIODE	
D701			CMS14	DIODE	
D702			DAN202U	DIODE	
D703			UDZW16(B)	ZENER DIODE	
D704			DAN202U	DIODE	
D705-707			UDZW6.8(B)	ZENER DIODE	
D709,710			UDZW6.8(B)	ZENER DIODE	
D711,712			RKZ6.8KG(B2)	ZENER DIODE	
D714,715			DA204U	DIODE	
IC10			M5237ML-CF0J	ANALOGUE IC	
IC20			XC6201P502PR	ANALOGUE IC	
IC70			AN33013UA-VB	ANALOGUE IC	
IC170			74AHC1G08GW	MOS-IC	K
IC171			74AHCT1G08GW	MOS-IC	K
IC201			E-TDA7850A	ANALOGUE IC	
IC240			AK7600VF	MOS-IC	
IC300			M24256BRDW6TP	ROM IC	
IC301			XC6120N362N1	MOS-IC	
IC302		*	W05-1744-00	MICROCONTROLLER IC	K1

K: KIV-BT901 K1: KIV-701

▲ indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-7080-1x)

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
IC302		*	W05-1745-00	MICROCONTROLLER IC	K
IC303			74HC2G02DP	MOS-IC	
IC304			HD74HC27FP-E	MOS-IC	
IC451			E-TDA7716N	ANALOGUE IC	
IC500			E-TDA7478AD	ANALOGUE IC	
IC551			TC7WH126FU-F	MOS-IC	
IC552			TC7WT126FU-F	MOS-IC	
IC600			NJM4565V-ZB	ANALOGUE IC	K
IC700	1B		Impossible to replace	ANALOGUE IC (See exploded view)	
IC701			BH7649KS2	ANALOGUE IC	
Q10			DTA124EUA	DIGITAL TRANSISTOR	
Q11			DTC124EUA	DIGITAL TRANSISTOR	
Q12			KTA1046-P	TRANSISTOR	
Q30			2SA1576A	TRANSISTOR	
Q31			DTC124EUA	DIGITAL TRANSISTOR	
Q32			2SC4081	TRANSISTOR	
Q33			KTA1046-P	TRANSISTOR	
Q50			2SC4081	TRANSISTOR	
Q51			KTA1046-P	TRANSISTOR	
Q52			DTA124EUA	DIGITAL TRANSISTOR	
Q53			DTC124EUA	DIGITAL TRANSISTOR	
Q80			2SC4081	TRANSISTOR	
Q81			2SC5053	TRANSISTOR	
Q82			DTA124EUA	DIGITAL TRANSISTOR	
Q83			RT1N241M-T111	TRANSISTOR	
Q90			2SC4081	TRANSISTOR	
Q92 ,93			2SC4081	TRANSISTOR	
Q110			DTC114YUA	DIGITAL TRANSISTOR	
Q111			DTA114EUA	DIGITAL TRANSISTOR	
Q112			2SA1576A	TRANSISTOR	
Q113,114			2SB1188(Q,R)	TRANSISTOR	
Q115			DTC114YUA	DIGITAL TRANSISTOR	
Q130			RT1N441M-T111	TRANSISTOR	
Q170			RT1N241M-T111	TRANSISTOR	K
Q366			RT1N144M-T111	TRANSISTOR	
Q440			RT1N430M-T111	TRANSISTOR	
Q441			RT1P241M-T111	TRANSISTOR	
Q442			RT1N430M-T111	TRANSISTOR	
Q450,451			RT1N430M-T111	TRANSISTOR	
Q460			RT1N430M-T111	TRANSISTOR	
Q461			RT1P241M-T111	TRANSISTOR	
Q462			RT1N430M-T111	TRANSISTOR	
Q480			DTC124EUA	DIGITAL TRANSISTOR	
Q481			2SA1577	TRANSISTOR	
Q602			RT1N241M-T111	TRANSISTOR	
Q702			DTC144EUA	DIGITAL TRANSISTOR	
Q703			DTA124EUA	DIGITAL TRANSISTOR	
Q704,705			DTC143TUA	DIGITAL TRANSISTOR	
Q706			DTA114YUA	DIGITAL TRANSISTOR	
Q707			DTC124EUA	DIGITAL TRANSISTOR	
TH200			PRF18BE471QS2	POSITIVE RESISTOR	
A900	3B		W02-5374-15	ELECTRIC CIRCUIT MODULE	K
A480	2B		X86-4230-11	FRONT-END UNIT	

K: KIV-BT901 **K1:** KIV-701

▲ indicates safety critical components.