PROBLEM SOLVING GUIDE OF THE 11AK19 MAINBOARD:

พล	PROBLEM	DESCRIPTIONS	DEFECTED COMPANY
			DEFECTED COMPONENTS
	No sound (mono)	1-Speakers 2-IC100 pin 5: -12.5VDC 3-IC100 pin 7: +12.5VDC 4-IC100 pin 2: +12.5VDC 5-IC100 pin 9: Sound signal (Scop) 6-IC401 pin 15: Sound signal (Scop) 7-IC401 pin 55:Sound signal (Scop)	Speakers,IC100,IC502,IC401, Q402
2	No sound (stereo)	1-Speakers 2-IC100 pin 5: -12.5VDC 3-IC100 pin 7: +12.5VDC 4-IC100 pin 2: +12.5VDC 5-IC100 pin 9: Sound signal (Scop) 6-IC100 pin 1:Sound signal (Scop) 7-PL404 pin 4: Sound signal (Scop) 8-PL404 pin 5: Sound signal (Scop)	Speakers,Sound Board,IC100,IC502
	No sound (Secam L mono)	1-IC501 pin 9 :0V 2-IC501 pin 18 :5V 3-IC401 pin 2: Sound signal (Scop) 4-IC402 pin 8: Sound signal (Scop)	IC402
	No sound in the Nicam mode		IC502
5	Sound level is low (mono)	1-IC401 pin 55: 3V DC 2-500mVpp audio (Scop) 3-100mVpp RF signal (Scop)	Q401,IC100
	defective)	1-An isolation transformer should be used while measuring the voltages on rithe primary side. 2-Driving signal must be exist on the gate of Q802 (Scop). 3-There should be +12V	Q802,IC801,IC802,R806,R817, D801,D802,D803,D804,D807, D812,D823,Q810,TR802,F801, R813,R814,Q805,Q806,Q807, Q809
7	Not working	1-Disconnect the pins 4 and 5 of IC502. If	IC502,IC501,IC701,Q605,IC401,

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1999.10.05.

ARIZALAR1

lap 2 - 4

	(Supply is working)	TV works, replace IC502 with the new and the right prorammed one) 2-Horizontal drive signal should included on the 40 of IC401 (Scop) 3-IC401 pin 40:1.1V (on mode) 4-IC401 pin 40:+8V (st-by) 5-D602: 1V 6-D607 12.5V	IC100,Q603,TR601,D603,D609, IC901,R605
	There is not Light (when the increase the screen voltage, to be seen flyback times.)	1-Pin 22 of IC401: The vertical pulse amplitude level must be 5Vpp (50Hz) (Scop) 2-Pin 18 of IC401: The black current signal level must be 7 Vpp. (Scop)	D609,IC901,IC401,IC701,IC502, IC501,Q601,D608,D701,C903, C708,Q701,Q426,D603,PL402 Kablosu
	L	1-Cathode of D816 : 115VDC (For 110° models:150VDC)	C611
10	Picture is narrow	1-The voltage on the cathode of D816 must be 115VDC for 90 degree models (It should be 150VDC for110 deg. Models)	C611,TR602,Q809
	There is not light (Flaman is not working)	tube socket must be 6.3V RMS or 20Vpp	R611,PL602 Kablosu
	Faults of teletext part.	1-Pin 30 of IC501 : Video signal level must be 1.2 Vpp (Scop)	IC501,L501,IC502,Q702,R547, D506,D507,Q702
,	Vertical is not working.	1-Pin 3 of IC701: +15V 2-Pin 1 of IC701: Vertical drive signal must to be (1Vpp scop)	IC701,IC401,IC901,IC502, R702, R703,D606
	Vertical is folded	1-Pin 6 of IC701: +45V	IC701,R704,IC502,C632,C702,
	station (PLL Tuner)	1-Pin 4 of Tuner: SCL 4.5Vpp (Scop) 2-Pin 5 of Tuner: SDA 4.5Vpp (Scop) 3-Pin 9 of Tuner	IC502,TU201,IC501,IC401, D604,Q407

1	There is not	1-Pin 3 of Tuner: +5V DC (UHF) 2-Pin 4 of Tuner: +5V DC (VHF3) 3-Pin 5 of Tuner: +5V	IC502,TU201,IC501,IC401,D604,
1	Tuner)	DC (VHF1) 4-Pin 6 of Tuner: +5V DC 5-Pin 1 of Tuner: +2V DC (aproix.) 6-Pin 2 of Tuner: From 0' to 33V DC variable	Q502,Q510,Q508,Q501,Q407
	Led is on, but some late		Q810
18	Led is off		Q810,Q512,IC801
19		1-There may be a short-cut or overcurrent situation on one of the supplying voltages. E.g: +5V, +8V etc.	IC501,Q810,CRT,D605,IC801, IC401,IC901,D811,D812,Q605, IC100,Q805,Q806,Q807
	Remote control is not controlling to TV.	1-Pin 15 of IC501 : +5VDC 2-Pin 2 of MD501 : +5VDC 3-Pin 3 of MD501 : IR signal level must be 5Vpp.	MD501,IC100,IC501,IC502
	Vertical lines are broking in the picture	1-CRT aqua cable maybe snap.	D420,Q810,D402,D601,IC401, C618, AQUA CABLE,C604,R717,C435,C436
1 1	Coloured snowy		IC401,IC502
	There is no colour in the picture		IC401,X401,IC502
	High voltage spark		CRT,TR602
25	No OSD	1-Pin 45 of IC501: Sandcastel input signal level must be 4Vpp (Scop) 2-Pin 38 and 39 of IC501: 4.5Vpp osc. signal (Scop) 3-Pin 26 of IC401: Fast-Blank signal level must be +4Vpp when OSD is activated.(Scop)	IC501,IC502,IC401,R486,Q420, R554,R488,L501,C511,C512
26	Faults of OSD		D506,IC501,D507,D508,IC401,

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1999.10.05.

ARIZALAR1

lap 4 - 4

26	Faults of OSD		
	L		IC502
27	Light is little		R615,D608,D701,IC901
28	Light is much		D408,IC401,IC502
29	East-West geometry adjustment is fault		D612,L604,R629,Q603,IC401, D611,R606,C626
	Sync. is sliding.	1-IC401 pin 13: Video signal input pals must be1.3Vpp.	IC502,Q407
31	Folding from left and right sides		C611
32	No picture in PIP		IC050
	No screen adjustment	1-Screen cable may be defected.	IC901,D609,C903,TR802
	Spot in the middle of the screen		Q601,C902,IC901
	Blue opicture in Secam		C415
	Raster is O.K (picture is milky)	1-IC401 pin 13: Video signal input 1.3Vpp.	IC401,IC701
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