

3. IC APPLICATION

Ref No.	Description	Application	Ref No.	Description	Application
Deflection circuit			Sub microprocessor circuit		
IC350	UPC1884CT	H&V synchronous signal processor with geometrical compensation, H&V oscillator	IC701	741Z614-10	Sub microprocessor
IC401	LA7840L	Vertical output	IC703	M62381FP	D/A converter
IC502	SLA5041	FET array	High voltage circuit		
IC503	324	Amplifier (H-size, Distortion control)	IC501	MSPAD301	High voltage control
Power circuit			Video circuit		
IC205	7805	5V regulator	IC101	M52755SP	Signal switch
IC304	AN7705F/ UPC2405HF	5V regulator	IC102	24LC21	DDC
IC351	7812	12V regulator	IC201	M52742ASP	Video amplifier
IC504	7805	5V regulator	IC202	LM2402T	Video output
IC711	7905	-5V regulator	IC203	M35045	On screen display control
IC712	UPC29M33HB	3.3V regulator	IC207	M52759SP	Uniformity control
IC713	7805	5V regulator	IC210	324	Amplifier (Cut-off control)
IC714	7812	12V regulator	CRT circuit		
IC930	3842	Main power control	IC702	UPD61882	Digital signal processor (4H-CONV, 4V-CONV)
IC931	MIP0222SY	Sub power control	IC704	CA0007AM	Multiplication (6H-CONV)
IC932	MC34262/ MC33262	Power factor control	IC705	STK391-110	Power amplifier (4H-CONV, 4V-CONV)
IC960	AN7712F/ UPC2412HF	12V regulator	IC706	STK390-910	Power amplifier (6H-CONV)
IC961	3842	Variable B control	IC707	358	Amplifier (6H-CONV)
IC962	UPC1093J/ KIA431	Over voltage, Arc and X-ray protect control	IC708	LA6510/ TA8410AK	Power amplifier (TILT+/-, NS+/-)
IC980	PQ6RD083	6.3V regulator (to CRT heater voltage)	IC709	LA6510/ TA8410AK	Power amplifier (TL+/-, BL+/-)
Microprocessor circuit			IC710	LA6510/ TA8410AK	Power amplifier (TR+/-, BR+/-)
IC211	M62354P	D/A converter	IC715	TMC3000NF(6)	Terrestrial magnetic sensor
IC301	741Z613-10	Main microprocessor	IC716	358	Power amplifier (NS+/-)
IC302	M51951BSL	Power voltage watcher			
IC303	24C08	E ² PROM			

Note: Specifications of Main microprocessor and Sub microprocessor are on next page.

Main microprocessor specifications

Pin	Name	Function	Pin	Name	Function
1	H-LIN2	H-LIN2 switching signal output	64	Avref.	5V Vcc
2	H-LIN1	H-LIN1 switching signal output	63	AVDD	5V Vcc
3	DRIVE	DRIVE switching signal output	62	EE-SDA	E ² PROM DATA terminal
4	N.C.	N.C.	61	EE-SCL	E ² PROM CLOCK terminal
5	SW	BNC/D-SUB switching signal	60	CS6	Cushion-S switching signal 6
6	GND	GND	59	CS5	Cushion-S switching signal 5
7	SCL	DSP CLOCK output terminal	58	CS4	Cushion-S switching signal 4
8	SDA	DSP DATA input/output terminal	57	CS3	Cushion-S switching signal 3
9	POC	DSP power-on clear input terminal	56	CS2	Cushion-S switching signal 2
10	500KHz	CLOCK signal output for 1884 counter	55	CS1	Cushion-S switching signal 1
11	84-SDA	1884 DATA input/output terminal	54	GND	GND
12	84-SCL	1884 CLOCK terminal	53	GND	GND
13	GND	GND	52	GND	GND
14	GND	GND	51	GND	GND
15	GND	GND	50	X1	X'TAL 8.8MHz
16	GND	GND	49	X2	X'TAL 8.8MHz
17	Vss	GND	48	VDD	5V Vcc
18	+ KEY	Front-key signal input terminal	47	RxD	Automatic adjustment DATA output terminal
19	GND	GND	46	TxD	Automatic adjustment CLOCK terminal
20	GND	GND	45	DIAG	Automatic adjustment DATA input terminal
21	GND	GND	44	V-SYNC	IIC-BUS reference signal input terminal
22	GND	GND	43	RESET	Main microprocessor RESET signal input terminal
23	GND	GND	42	DA-LD	DA-LD
24	– KEY	Front-key signal input terminal	41	N.C.	N.C.
25	MENU	Front-key signal input terminal	40	D/A-SCL	D/A CLOCK output terminal
26	HEATER	Heater ON/OFF control	39	OSD-CS	OSD SELECT signal output terminal
27	WIN	CLAMP	38	OSD-SCL	OSD CLOCK input/output terminal
28	DEG	Degauss control signal output	37	SUB-SCL	Sub E ² PROM CLOCK terminal
29	PS1	POWER-SAVE control signal output 1	36	SUB-SDA	Sub E ² PROM DATA input terminal
30	LED-O	LED control signal output (Orange)	35	SUB-SDA	Sub E ² PROM DATA output terminal
31	LED-G	LED control signal output (Green)	34	Pre-SCL	Pre-Amp CLOCK output terminal
32	Vss	GND	33	Pre-SDA	Pre/OSD/DA-DATA output terminal

Sub microprocessor specifications

Pin	Name	Function	Pin	Name	Function
1	P34	NS coil ON/OFF control	28	5V	5V Vcc
2	N.C.	N.C.	27	N.C.	N.C.
3	N.C.	N.C.	26	Temp.	Funnel temperature detection
4	N.C.	N.C.	25	Temp.	Temperature detection
5	GND	GND	24	N.C.	N.C.
6	RESET	Sub microprocessor RESET signal input terminal	23	AD-Vref	A/D reference voltage 5V
7	X0	X'TAL 4MHz	22	GND	GND
8	X1	X'TAL 4MHz	21	GND	GND
9	GND	GND	20	GND	GND
10	N.C.	N.C.	19	P41	Magnetism sensor detection X
11	M-SDA	Main E ² PROM DATA output terminal	18	P40	Magnetism sensor detection Vref
12	M-SDA	Main E ² PROM DATA input terminal	17	P30	DA-LD output terminal
13	M-SCL	Main E ² PROM CLOCK terminal	16	P31	DA-CLOCK output terminal
14	N.C.	N.C.	15	P32	DA-DATA output terminal