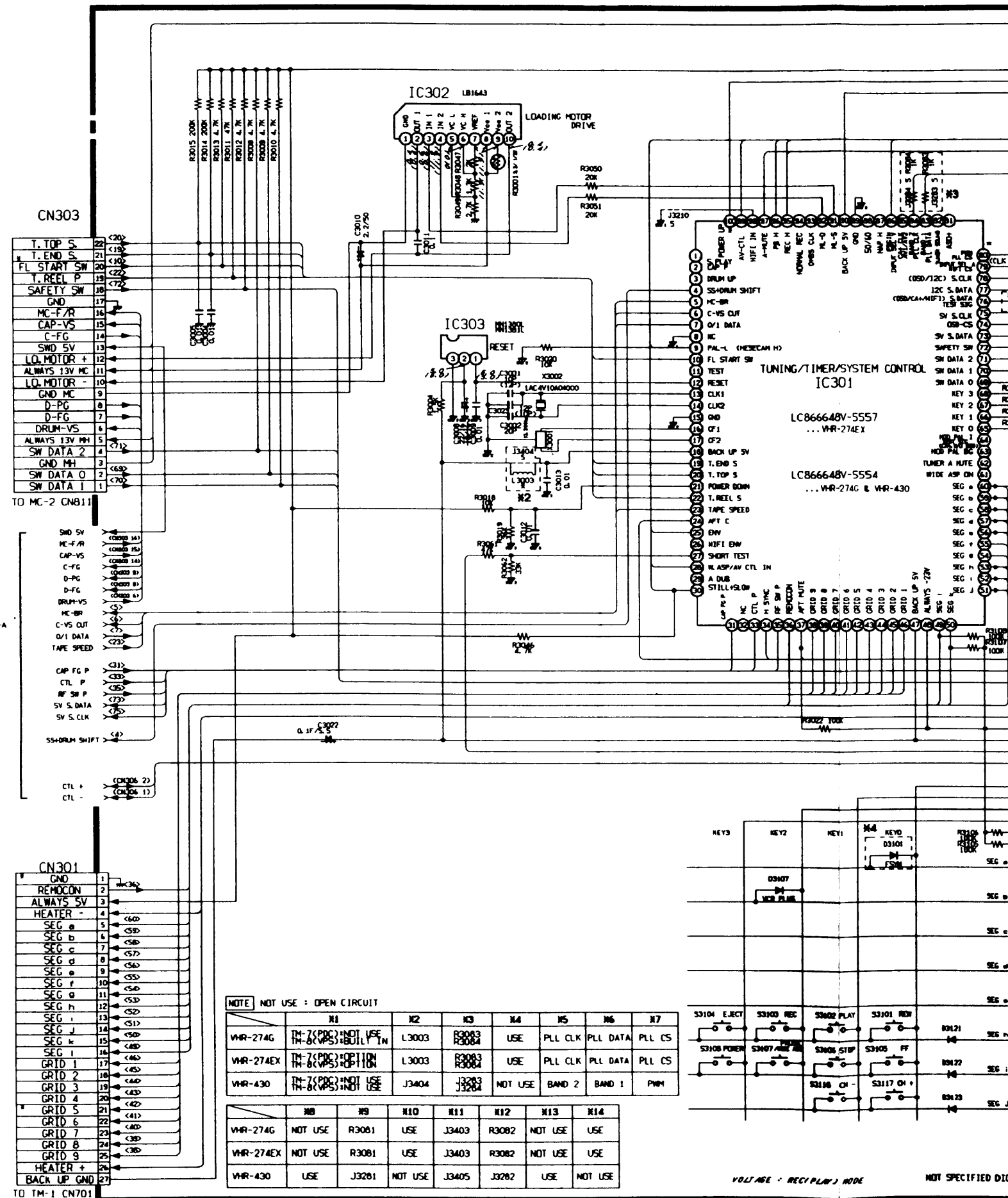


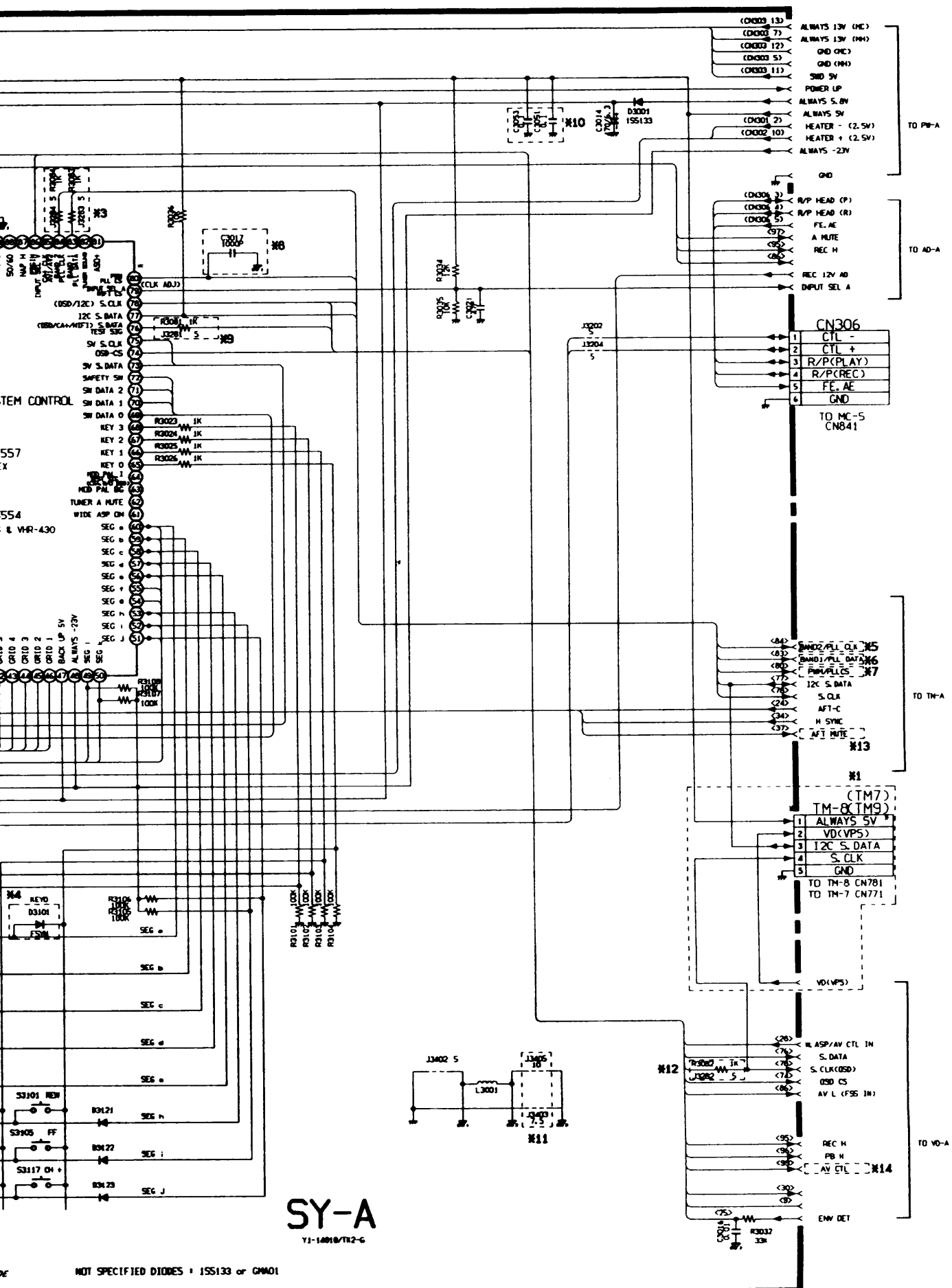
IC301 SYSTEM CONTROL, TIMER, & TUNING CONTROL MPU PIN FUNCTIONS TABLE

No.	Name	I/O	I/O Signal Function	No.	Name	I/O	I/O Signal Function
1	S - PLAY	O	Signal for indicating CUE, REV, STILL and SLOW modes.	55	SEG f	O	
2	CAP P.	O	Gain down control for Head Motor Amplifier at SLOW mode.	56	SEG e	O	
3	DRUM UP	O	Head drum motor rotation speed up signal.	57	SEG d	O	Display segment outputs (FLD).
4	SS + DRUM SHIFT	O	Signal for indicating SLOW/STILL modes and alternation of drum motor control data. (3 value voltage)	58	SEG c	O	(Includes key-scan output)
5	MC - BR	O	Brake signal for capstan motor.	59	SEG b	O	
6	C - Vs CUT	O	Cut off for capstan motor control voltage in SLOW / STILL modes.	60	SEG a	O	
7	0/1 DATA	I	CTL pulse duty detection signal input. Used for VSS detection.	61	WIDE ASP ON	O	Signal for wide aspect TV-system indication.
8	-	-	-	62	TUNER A MUTE	O	Signal for disable tuner-audio output.
9	PAL - L (MESECAM H)	I	Color system indication signal input.	63	RF PAL BG	O	Signal for RF output TV-system setting (PAL - BG).
10	FL - START SW	I	Switch input indicating start of cassette loading or discharge by cassette mechanism.	64	RF PAL I	O	Signal for RF output TV-system setting (PAL - I).
11	-	-	-	65	KEY IN 0	I	
12	RESET	I	Initial reset terminal for this IC.	66	KEY IN 1	I	
13	CLK 1	-	Clock OSC during power failures.	67	KEY IN 2	I	
14	CLK 2	-	Frequency is 32.768kHz.	68	KEY IN 3	I	
15	VSS	-	Ground terminal.	69	SW DATA 0	I	
16	CF 1	-	IC clock OSC terminal.	70	SW DATA 1	I	3-bit data indicating operation position of mechanism.
17	CF 2	-	Frequency is 13.31MHz.	71	SW DATA 2	I	
18	VDD	-	IC power supply terminal. (5Vdc)	72	SAFETY SW	I	Terminal for accidental erasure prevention switch. No operation to record mode while "HIGH" is input.
19	T. END S.	I	Sensor signal input for tape end detection.	73	SV S. DATA	O	Output 8-bit X 4 serial data giving operation mode and tracking data, etc., to digital servo IC.
20	T. TOP S.	I	Sensor signal input for tape beginning detection.	74	OSD CS	O	Chip enable (access) signal output to OSD IC.
21	POWER DOWN	I	Power failure detection terminal.	75	SV S. CLK	O	The clock pulse for digital servo IC.
22	T. REEL S.	I	Pulse input for detection of take-up reel table rotation.	76	S. DATA	I/O	Terminal for communication of respective data with OSD IC, CH+ control IC, and Hi-Fi audio IC.
23	TAPE SPEED	I	Input of result of tape speed discrimination by digital servo IC.	77	I2C S. DATA	I/O	Data exchange with tuning memory IC and VPS IC.
24	AFT - C	I	Tuner AFT S-curve signal input for tuner AFT control.	78	S. CLK (OSD/I2C)	O	The clock pulse for OSD IC and tuning memory IC.
25	ENV.	I	Video head envelope detection signal input for ATR function.	79	INPUT SEL A	O	Signal for selecting audio input source.
26	HIFI ENV.	I	Hi-Fi audio head envelope detection signal input for ATR function. (Hi-Fi model only)	80	HIFI CS	O	Chip enable (access) signal to Hi-Fi audio IC.
27	SHORT TEST	I	REC mode indication signal input (REC SV).	81	PLL CS	O	Chip enable signal output to tuner PLL tuning system IC. (F-syn model)
28	W. ASP/AV CTL IN	I	AV source selection signal input from AV terminal.	82	TU PWM	O	Tuning voltage output (PWM signal). (V-syn model)
29	A DUB	O	Signal for indicating audio dubbing mode.	83	TU SOUND (I/BG)	O	TV system indication signal output (PAL I or BG).
30	STILL + SLOW	O	STILL or SLOW modes indication signal output.	84	BAND 1	O	Tuning band data (BAND 1 and 2; for V-syn model).
31	C - FG P.	I	FG signal input of capstan motor.	85	PLL DATA	O	Data exchange with tuner PLL IC (for F-syn model).
32	-	-	-	86	BAND 2	O	BAND 1 and 2; (L,L)=VHF-LOW (L,H)=VHF-HIGH (H,L)=UHF (H,H)=SKIP. (for V-syn model)
33	CTL P.	I	CTL head recording / playback pulse signal input.	87	PLL CLK	O	The clock for PLL IC of tuner unit (for F-syn model).
34	H SYNC	I	Sync. signal input for existing channel discrimination and TV system discrimination.	88	CH+ CLK	O	The clock for CH+ input/output source selection IC.
35	RF SW P.	I	RF switching pulse input, created by head drum PG.	89	AV1 / AV2	O	Signal for selecting AV-input (video/audio) source.
36	REMOCON	I	Remote control signal input.	90	INPUT SEL V	O	Signal for selecting video input source.
37	AFT MUTE	O	"H" output during TU AFT mute. (V-syn model only)	91	FSS IN	I	CH+ mode control signal input (CH+ model).
38	G9	O		92	NAP H	O	"H" output during NTSC (NAP) playback mode.
39	G8	O		93	50 / 60	O	"LOW" output during NTSC (NAP) mode. (60 field mode)
40	G7	O		94	VSS	-	IC ground terminal.
41	G6	O		95	VDD	-	IC power supply input. (5Vdc)
42	G5	O	Display grid outputs (FLD).	96	ML - S	O	Loading motor rotation speed (low / medium / high) indication signal.
43	G4	O		97	ML - D	O	Loading motor rotation direction (FWD / REV) indication signal.
44	G3	O		98	NORMAL AD REC	O	Signal for indicating normal audio recording.
45	G2	O		99	REC H	O	Signal for indicating recording mode.
46	G1	O		100	PB H	O	Signal for indicating playback mode.
47	VDD	-	IC power supply input. (5Vdc)	101	A MUTE	O	"H" output for disable audio output signal.
48	V LOAD	O	-23V input for FLD drive.	102	HIFI IN	I	Hi-Fi mode indication signal input from audio IC.
49	SEG i	O		103	AV CTL	O	AV terminal (pin8 of 21pins AV socket) control signal output.
50	SEG k	O		104	ANT / VTR	O	Selection the RF source of ANTENNA or VTR.
51	SEG j	O	Display segment outputs (FLD).	105	POWER UP	O	"HIGH" output except when power is off. Indicating that power is ON.
52	SEG i	O	(Includes key-scan output)				
53	SEG h	O					
54	SEG g	O					

TK14HTTS-A



SYSTEM CONTROL



SY-A
YI-14010/TM2-6