

SECTION 3 BLOCK DIAGRAMS

3-1. ABBREVIATIONS

| | | | |
|------------------|---|----------------|-----------------------------|
| 443NT [L] | 4.43 NTSC ① | BIL. [H] | BILINGUAL ⑥ |
| A. COMP | AUDIO COMPONENT SIGNAL | BIL/M1 [L] | BILINGUAL ① |
| A. COMPO | AUDIO COMPONENT SIGNAL | BS CLOCK | BS CLOCK |
| A. D.P [L] | AUDIO DUBBING PAUSE ① | BS DATA | BS DATA |
| A. D/L [L] | AUDIO DUBBING PAUSE ① | BS LCH IN | BS L CHANNEL INPUT |
| A. DEF [S] | AUDIO DEFEAT | BS MIX [H] | BS MIX ⑥ |
| A. DEF [S] [L] | AUDIO DEFEAT | BS MON [H] | BS MONITOR ⑥ |
| A. DUB P [L] | AUDIO DUBBING PAUSE ① | BS MONI [H] | BS MONITOR ⑥ |
| A. DUB [H] | AUDIO DUBBING ⑥ | BS RCH IN | BS R CHANNEL INPUT |
| A. ERASE | AUDIO ERASE | BS VIDEO | BS VIDEO SIGNAL |
| A. H. SW | AUDIO HEAD SWITCHING PULSE | BS VIDEO/BS1 | BS VIDEO SIGNAL |
| A. HEAD [R] | AUDIO HEAD (REC) | BS [H] | BS ⑥ |
| A. HEAD [W] | AUDIO HEAD (PLAY) | BS. LEVEL | BS LEVEL |
| A. IN [L] | AUDIO INPUT (L) | BS. M [H] | BS MONITOR ⑥ |
| A. IN [R] | AUDIO INPUT (R) | BS/VTR [H] | BS/VTR ⑥ |
| A. MUT [H] | AUDIO MUTE ⑥ | BUS CLK | BUS CLOCK |
| A. MUTE [H] | AUDIO MUTE ⑥ | BUS LSN | BUS LISTEN |
| A. OUT [L] | AUDIO OUTPUT (L) | BUS TLK | BUS TALK |
| A. OUT [R] | AUDIO OUTPUT (R) | BUZZER | BUZZER |
| A. RF OUT | AUDIO RF SIGNAL OUTPUT | CAP EC | CAPSTAN TORQUE CONTROL |
| A/VS/S. DATA | AV SW/SERIAL DATA | CAP M GND | CAPSTAN MOTOR GND |
| AC ONLINE | AC ONLINE | CAP. ET | CAPSTAN TORQUE CONTROL |
| AC. O/EE. H | AC ONLINE/EE ⑥ | CAP. FG1 | CAPSTAN FG1 PULSE |
| AFC S C | AFC S CURVE | CAP. FG2 | CAPSTAN FG2 PULSE |
| AFC [S] | AFC S CURVE | CAS. SW | CASSETTE SW |
| AFC. DEF | AFC DEFEAT | CCN | PLAYBACK CONTROL SIGNAL (-) |
| ARFC OUT | AUDIO RF SIGNAL OUTPUT | CCP | PLAYBACK CONTROL SIGNAL (+) |
| ART. V | ARTIFICIAL VERTICAL SYNC SIGNAL | CHM | CONTROL SIGNAL (+) |
| ART. V. MM | ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI | CHP | CONTROL SIGNAL (-) |
| ART. V/H/N | ARTIFICIAL VERTICAL SYNC SIGNAL ⑥/NORMAL | CINEM [L] | CINEMA ① |
| AT. V/H/N | ARTIFICIAL VERTICAL SYNC SIGNAL TEST/NORMAL/SERVICE | CINEMA [L] | CINEMA ① |
| ATSW/TEST/NOR/SE | TEST/NORMAL/SERVICE | CINEMA/MIX | CINEMA/MIX |
| AUDIO IN [L] | AUDIO INPUT (L) | CKL | RATCH LOCK |
| AUDIO IN [R] | AUDIO INPUT (R) | CKS | SHIFT LOCK |
| AUDIO OUT [L] | AUDIO OUTPUT (L) | CL | CLOCK |
| AUDIO OUT [R] | AUDIO OUTPUT (R) | CLK | CLOCK |
| AUDIO SELECT [H] | AUDIO SELECT ⑥ | CLK (C.G) | CLOCK |
| AUDIO. L | AUDIO (L) | CLOCK. IN | CLOCK INPUT |
| AUDIO. R | AUDIO (R) | CLP | CLAMP |
| AV CNT | AV CONTROL | COL/B/W/NOR | COLOUR/BLACK & WHITE/NORMAL |
| AV CTL | AV CONTROL | COLOR [H] | COLOUR ⑥ |
| AV CTL/S. CLK | AV CONTROL/SERIAL CLOCK | CONV | CONVERTOR |
| AV. C.M. | AV CONTROL MODE | CS | CHIP SELECT |
| AVCNT/METER. R | AV CONTROL/LEVEL METER (R) | CTL GND | CONTROL GND |
| AVSW/METER. L | AV SW/LEVEL METER (L) | CTL HEAD [+] | CONTROL HEAD (+) |
| B MODE. H | B MODE ⑥ | CTL HEAD [-] | CONTROL HEAD (-) |
| B.G.P | BURST GATE PULSE | CTL [+] | CONTROL HEAD (+) |
| BACKUP 5V | BACK UP 5V | CTL [-] | CONTROL HEAD (-) |
| BAND. U.E. | BAND U | CUE BIAS | CUE BIAS |
| BANDVL. D | BAND VL | CURRENT LIM | CURRENT LIMMETER |
| BI/MI [L] | BILINGUAL/MIX ① | CYL ET | CYLINDER TORQUE CONTROL |
| BIL | BILINGUAL | CYL GND | CYLINDER GND |
| BIL [L] | BILINGUAL ① | D.F.M. REC [H] | DELAIED FM RECORDING ⑥ |
| | | D. FM REC [L] | DELAIED FM RECORDING ① |
| | | D. GND | DIGITAL GND |

ABBREVIATIONS

| | | | |
|------------------|------------------------------|------------------|--------------------------|
| D. REC [H] | DELAYED RECORDING ⑥ | H. SYNC | HORIZONTAL SYNC |
| D4/S. LED | D4/STILL LED | H. AMP. SW | HEAD AMP SW PULSE |
| D4/STILLED | D4/STILL LED | H. P <R> | HEAD PHONE (R) |
| DAC [CLK] | TUNER DAC (CLOCK) | H. P <L> | HEAD PHONE (L) |
| DAC/FSCS | TUNER DAC/FS CHIP SELECT | H. P GND | HEAD PHONE GND |
| DAREC [H] | DELAYED AUDIO RECORDING ⑥ | H. P OUT [L] | HEAD PHONE OUTPUT (L) |
| DATA | DATA | H. P OUT [R] | HEAD PHONE OUTPUT (R) |
| DECODER [L] | DECODER (L) | H. SW | HEAD SW PULSE |
| DECODER [R] | DECODER (R) | HEAD PHONE [L] | HEAD PHONE (L) |
| DEW | DEW | HEAD PHONE [R] | HEAD PHONE (R) |
| DEW SNS | DEW SENSOR | HEAD SW | HEAD SW |
| DFMRE [H] | DELAYED FM AUDIO RECORDING ⑥ | HEATER [+] | HEATER (+) |
| E. REC 5V | EXCEPT RECORDING 5V | HEATER [-] | HEATER (-) |
| EC | ERROR TORQUE CONTROL | HSS | HORIZONTAL SYNC SIGNAL |
| ECR | ERROR TORQUE CONTROL | HTR [+] | HEATER (+) |
| | REFERENCE VOLTAGE | HTR [-] | HEATER (-) |
| EDT TRIG [L] | EDIT TRIGGER ① | I RFE | REFERENCE CURRENT |
| EDIT [H] | EDIT ⑥ | ICL | CONTROL AGC CIRCUIT |
| EE [H] | EE ⑥ | IF | INTERMEDIATE FREQUENCY |
| EE [H]/INS [M] | EE ⑥/INSERT ⑥ | IN SELA1 | INPUT SELECT A1 POSITION |
| EE. VV. TR | EE/VV/TRICK PLAY | IN SELA2 | INPUT SELECT A2 POSITION |
| EJECT. PO | EJECT POSITION | IN SELA3 | INPUT SELECT A3 POSITION |
| EJECT/VDET | EJECT/REVERSE SLOW LOCK | INS L/R [L] | INSERT Lch/Rch ① |
| ENV. SEL | ENVELOPE SELECT | INS. [H] | INSERT ⑥ |
| ENVE. OUT | ENVELOPE OUTPUT | INSEL A1 | INPUT SELECT A1 POSITION |
| ENVE. SEL | ENVELOPE SELECT | INSEL A2 | INPUT SELECT A2 POSITION |
| ENV SELECT | ENVELOPE SELECT | INSERT | INSERT |
| EP [H] | LP ⑥ | INSERT [H] | INSERT ⑥ |
| EP/LP [H] | LP ⑥ | IO CS | INPUT/OUTPUT CHIP SELECT |
| EP/LP/SP | LP/SP | JOG1 | JOG1 |
| EP/SS [H] | LP/SLOW/STILL/STOP ⑥ | JOG S3 LED/FOWRD | JOG LED/FORWARD LED |
| EPROMCS | EPROM CHIP SELECT | JOG/F. LED | JOG LED/FORWARD LED |
| EX. REC 5V | EXCEPT RECORDING 5V | JSB [H] | JSB ⑥ |
| FF/REW [L] | FIRST FORWARD/REWIND ① | JST. CLCK | JUST CLOCK |
| FG1 IN | FG1 PULSE INPUT | JST. CLK | JUST CLOCK |
| FG2 IN | FG2 PULSE INPUT | JST. CLOCK | JUST CLOCK |
| FILTER ADJUSTMEN | FILTER ADJUSTMENT | L. OUT | Lch OUTPUT |
| FLY ERASE [H] | FLYING ERASE HEAD ON ⑥ | L. CH [H] | Lch ⑥ |
| FLY ON [H] | FLYING ERASE E HEAD ON ⑥ | L. CH [L] | Lch ① |
| FLY. E [H] | FLYING ERASE HEAD ON ⑥ | LED (MAIN) | LED (MAIN) |
| FM MUT [H] | FM AUDIO MUTE ⑥ | LED (STEREO) | LED (STEREO) |
| FM MUTE [H] | FM AUDIO MUTE ⑥ | LED (SUB) | LED (SUB) |
| FM OUT [L] | FM OUTPUT (L) | LED CKL | LED SERIAL CLOCK |
| FM OUT [R] | FM OUTPUT (R) | LED CKS | LED SERIAL CLOCK |
| FM PACK OUT [L] | FM PACK OUTPUT (L) | LED DATA | LED SERIAL DATA |
| FM PACK OUT [R] | FM PACK OUTPUT (R) | LINE IN 1 [L] | LINE INPUT 1 (L) |
| FM/BS SEL [L] | FM/BS SELECT (L) | LINE IN 1 [R] | LINE INPUT 1 (R) |
| FM/BS SEL [R] | FM/BS SELECT (R) | LINE IN 2 [L] | LINE INPUT 2 (L) |
| FS. CLK | FS CLOCK | LINE IN 2 [R] | LINE INPUT 2 (R) |
| FUL. E [H] | FULL ERASE HEAD ON ⑥ | LINE IN V | LINE INPUT VIDEO |
| FULL. E [H] | FULL ERASE HEAD ON ⑥ | LINE IN [L] | LINE INPUT (L) |
| FULL. E. 12V | FULL ERASE 12V | LINE IN [R] | LINE INPUT (R) |
| GND [A] | GND (ANALOGUE) | LINE OUT [L] | LINE OUTPUT (L) |
| GND [TU] | GND (TUNER) | LINE OUT [R] | LINE OUTPUT (R) |
| GND/N. SW. 12V | GND/NON SW 12V | LP [H] | LP ⑥ |

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|--------------------|-------------------------------|------------------|------------------------------|
| LPTRI [L] | LP TRICK PLAY ① | P. OFF [L] | POWER OFF ① |
| Lch/A. DUB | Lch/AUDIO DUBBING | PAL [H] | PAL ② |
| M GND | MOTOR GND | PAL [L]/NTSC [H] | PAL ①/NTSC ② |
| M REG | MOTOR REGULATOR | PB ADJ OUT | PLAYBACK ADJUST OUTPUT |
| MAIN OUT | MAIN OUTPUT | PB OUT | PLAYBACK OUTPUT |
| MAIN [L] | MAIN ① | PB. H | PLAYBACK ② |
| MAIN/MONO | MAIN/MONAUURAL | PFG | PG/FG |
| MAX IN | MAXIMAM INPUT | PHOTSN +B | PHOTO SENSOR +B |
| MES [H] | MESECAM ② | PICT. CNT | PICTURE CONTROL |
| MESE [H] | MESECAM ② | PLAY LED/RVS LED | PLAY LED/REVERSE LED |
| MESE [L] | MESECAM ① | PLAY. PO | PLAY POSITION |
| METER 5V | LEVEL METER 5V | PLAY/R. LED | PLAY LED/REVERSE LED |
| METER [L] | LEVEL METER (L) | PLY/DEW | PLAY/DEW ② |
| METER [R] | LEVEL METER (R) | POWER OFF [L] | POWER OFF ① |
| METER. L/AVS | LEVEL METER (L) | PREROLL [H] | PREROLL ② |
| METER. R/AVC | LEVEL METER (R) | PWRFAIL | POWER FAILURE DETECT |
| M/BI [L] | MIX ②/BILIGUAL | R. CH [H] | Rch ② |
| MIC GND | MIC GND | R. CH [L] | Rch ① |
| MIC IN | MIC INPUT | R. ST | RESET |
| MIC IN [L] | MIC INPUT (L) | R/S/F | REVERSE ②/STOP ③/FORWARD ① |
| MIC IN [R] | MIC INPUT (R) | RCH [H] | Rch ② |
| MIC [H] | MIC ② | REC 12V | RECORDING 12V |
| MIX [H] | MIX ② | REC CHROMA | RECORDING CHROMINANCE SIGNAL |
| MIX [H]/CINEMA [L] | MIX ②/CINEMA SOUND ① | REC H | RECORDING ② |
| MIX/CINE | MIX ②/CINEMA SOUND ① | REC IN | RECORDING INPUT |
| MIX/CINEMA [L] | MIX ②/CINEMA SOUND ① | REC OUT [L] | RECORDING OUTPUT ① |
| MN. H/M. L | MONAUURAL ②/MAIN ① | REC START | RECORDING START |
| MN. H/MAI. L | MONAUURAL ②/MAIN ① | REC VR [C] | RECORDING VOLUME (COMMON) |
| MN2/MES. L | MONAUURAL 2/MESECAM ① | REC VR [L] | RECORDING VOLUME (L) |
| MODE SEL | AUDIO MODE SELECT | REC VR [R] | RECORDING VOLUME (R) |
| MODE SW | AUDIO MODE SW | REC Y | RECORDING LUMINANCE SIGNAL |
| MODE. S. IN | AUDIO MODE SELECT INPUT | REC [H] | RECORDING ② |
| MODE. S. OUT | AUDIO MODE SELECT OUTPUT | REC. C | RECORDING CHROMINANCE SIGNAL |
| MONO [H] | MONAUURAL ② | REC. Y | RECORDING LUMINANCE SIGNAL |
| MONO [H]/MAIN [L] | MONAUURAL ②/MAIN ① | REC/EE CTL | RECORDING/EE CONTROL |
| MONO2 [L] | MONAUURAL.2 | REEL-T | REEL PULSE (TAKE-UP) |
| MONO2/MESE [FM(L)] | MONAUURAL 2/MESECAM (FM ①) | REEL-S | REEL PULSE (SUPPLY) |
| MOTOR GND | MOTOR GND | REGULATOR FILTER | REGULATOR FILTER |
| MUTE | MUTE | RESET | RESET |
| N. A. REC [L] | NORMAL AUDIO RECORDING | REV M F/R | REVIEW MOTOR |
| N. SW 12V | NON SW 12V | | FORWARD/REVERSE |
| N. SW. 5. DET | NON SW 5V DETECT | REV M V1 | REVIEW MOTOR V1 |
| NICAM | NICAM | REV M V2 | REVIEW MOTOR V2 |
| NICAM [L] | NICAM ① | REV MOTOR F/R | REVIEW MOTOR |
| NOL [H] | PAL ②/4.43 NTSC ③/3.58 NTSC ① | | FORWARD/REVERSE |
| NOR/SOFT [H] | NORMAL/SOFT TAPE PLAY ② | REV MOTOR V1 | REVIEW MOROR V1 |
| NORMAL [H] | NORMAL ② | REV MOTOR V2 | REVIEW MOTOR V2 |
| NR BIAS | NR BIAS | REV MOTOR [+] | REVIEW MOTOR (+) |
| NTSC [L] | NTSC ① | REV MOTOR [-] | REVIEW MOTOR (-) |
| OCH | CONTROL AGC CIRCUIT | REV. M. GND | REVIEW MOTOR GND |
| OUT | OUTPUT | RF. CHROMA | RF CHROMINANCE SIGNAL |
| P-OFF [H] | POWER OFF ② | RF OUT | RF OUTPUT |
| P-OFF [L] | POWER OFF ① | RF Y | RF LUMINANCE SIGNAL |
| P. FAIL | POWER FAILURE DETECT | RF. Y. IN | RF LUMINANCE SIGNAL INPUT |
| P. OFF [H] | POWER OFF ② | RF. Y. OUT | RF LUMINANCE SIGNAL OUTPUT |

ABBREVIATIONS

| | | | |
|-----------------|-------------------------------|------------------|-------------------------------|
| ROTAR. SW | ROTARY SW | T. BUSCLK | TIMER BUS CLOCK |
| ROTARY | ROTARY SW | T. BUSLSN | TIMER BUS LISTEN |
| RST | RESET | T. BUSTLK | TIMER BUS TALK |
| RST [L] | RESET ① | T. END [L] | TAPE END ① |
| Rch/INST | Rch/INSERT | T. PHOTO | TAKE-UP PHOTO TRANSISTOR |
| S IN | SERIAL DATA INPUT | TAPE END [L] | TAPE END ① |
| S OUT | SERIAL DATA OUTPUT | TAPE END [L]/CAM | TAPE END ①/CAMERA PAUSE |
| S-PHOTO | SUPPLY PHOTO TRANSISTOR | TEST | TEST MODE |
| S-RL. PLS | SUPPLY REEL PULSE | TPZ | TRAPEZOIDAL WAVE CIRCUIT |
| S. CLK | SERIAL CLOCK | TRIC [L] | TRIC PLAY ① |
| S. CLK/AV | SERIAL CLOCK/AV | TRICK [L] | TRIC PLAY ① |
| S. DATA | SERIAL DATA | TRK. ENV | AUTO TRACKING ENVELOPE DETECT |
| S. DATA/A | SERIAL DATA | TU. AUDIO | TUNER AUDIO |
| S. PHOTO | SUPPLY PHOTO TRANSISTOR | TU. GND | TUNER GND |
| S. TAB [L] | SAFETY TAB SW ON ① | TU. V. IN | TUNER VIDEO SIGNAL INPUT |
| S/P/N | SECAM/PAL/NTSC | TU. VIDEO | TUNER VIDEO |
| SC IN | SERIAL CLOCK INPUT | TUN NOR IN | TUNER NORMAL INPUT |
| SC OUT | SERIAL CLOCK OUTPUT | TUN R | TUNER AUDIO (R) |
| SCK SELECT | SERIAL CLOCK SELECT | TUN. AUDIO IN | TUNER AUDIO INPUT |
| SEL OUT [L] | SELECT OUTPUT (L) | TUNER 12V | TUNER 12V |
| SEL OUT [R] | SELECT OUTPUT (R) | TUNER L | TUNER AUDIO (L) |
| SHUTTLE 1 | SHUTTLE 1 | TUNER V IN | TUNER VIDEO SIGNAL INPUT |
| SIF | SOUND INTERMEDIATE FREQUENCY | TUNER [L] | TUNER AUDIO (L) |
| SLMUT [H] | INPUT SELECT MUTE ④ | TUNER [N] | TUNER AUDIO (NORMAL) |
| SLNID [+] | SOLENOID (+) | TUNER [R] | TUNER AUDIO (R) |
| SLNID [-] | SOLENOID (-) | TUNER. 12 | TUNER 12V |
| SLW TR. MM | SLOW TRACKING MONO MULTI | TUOFF [H] | TUNER OFF ④ |
| SLW TR. REF | SLOW TRACKING REFERENCE | TV. AUDIO | TV AUDIO |
| | VOLTAGE | TV/VTR | TV/VTR |
| SNS. GND | SENSOR GND | TXTON [L] | TEXT ON ① |
| SOFT [H] | SOFT TAPE PLAY ④ | U. REG45V | UNREGULATOR 45V |
| SOFT [H]/NORMAL | SOFT TAPE PLAY ④/NORMAL ④ | UNREG | UNREGULATOR |
| SOLENOID ON [L] | SOLENOID ON ① | UNREG19V | UNREGULATOR 19V |
| SP [H] | SP ④ | V. REF | REFERENCE VOLTAGE |
| SP/L/SLP | SP/LP | V. EE [H] | VIDEO EE ④ |
| SSS [L] | SLOW/STILL/STOP | V. EE [L] | VIDEO EE ① |
| STEREO LED | STEREO LED | VCO REF | RERERENCE OSCILLATER |
| STEREO [H] | STEREO ④ | VD. IN | VIDEO SIGNAL INPUT |
| STEREO [L] | STEREO ① | VD. OUT | VIDEO SIGNAL OUTPUT |
| STOP. PO | STOP POSITION | VIDEO EE [L] | VIDEO EE ① |
| STOP/5V | STOP POSITION/5V | VIDEO IN | VIDEO SIGNAL INPUT |
| STOP1/TAPE SEL | STOP1 POSITION/TAPE SELECT | VIDEO OUT | VIDEO SIGNAL OUTPUT |
| STOP1/PAL:ST | STOP1 POSITION/PAL | VM | MOTOR VOLTAGE |
| STOP2. PO | STOP 2 POSITION | VM DOWN [L] | MOTOR VOLTAGE DOWN ① |
| STOP2/S-TAB | STOP 2 POSITION/SAFETY TAB SW | VSS | VERTICAL SYNC SIGNAL |
| STREO [H] | STEREO ④ | VTR [H] | VTR ④ |
| SUB BIAS | SUB BIAS | VTR. 12V | VTR 12V |
| SUB. SW | SUB SW | X IN | OSCILLATOR INPUT |
| SVHS CAS [L] | S-VHS CASSETTE ① | X OUT | OSCILLATOR OUTPUT |
| SW. 5. DET | SW 5V DETECT | | |
| SYNC [L] | SYNC ① | | |
| SYSCON 5V | SYSTEM CONTROL 5V | | |
| SYSTEM | SYSTEM SW | | |
| T-PHOTO | TAKE-UP PHOTO TRANSISTOR | | |
| T-RL. PLS | TAKE-UP REEL PULSE | | |