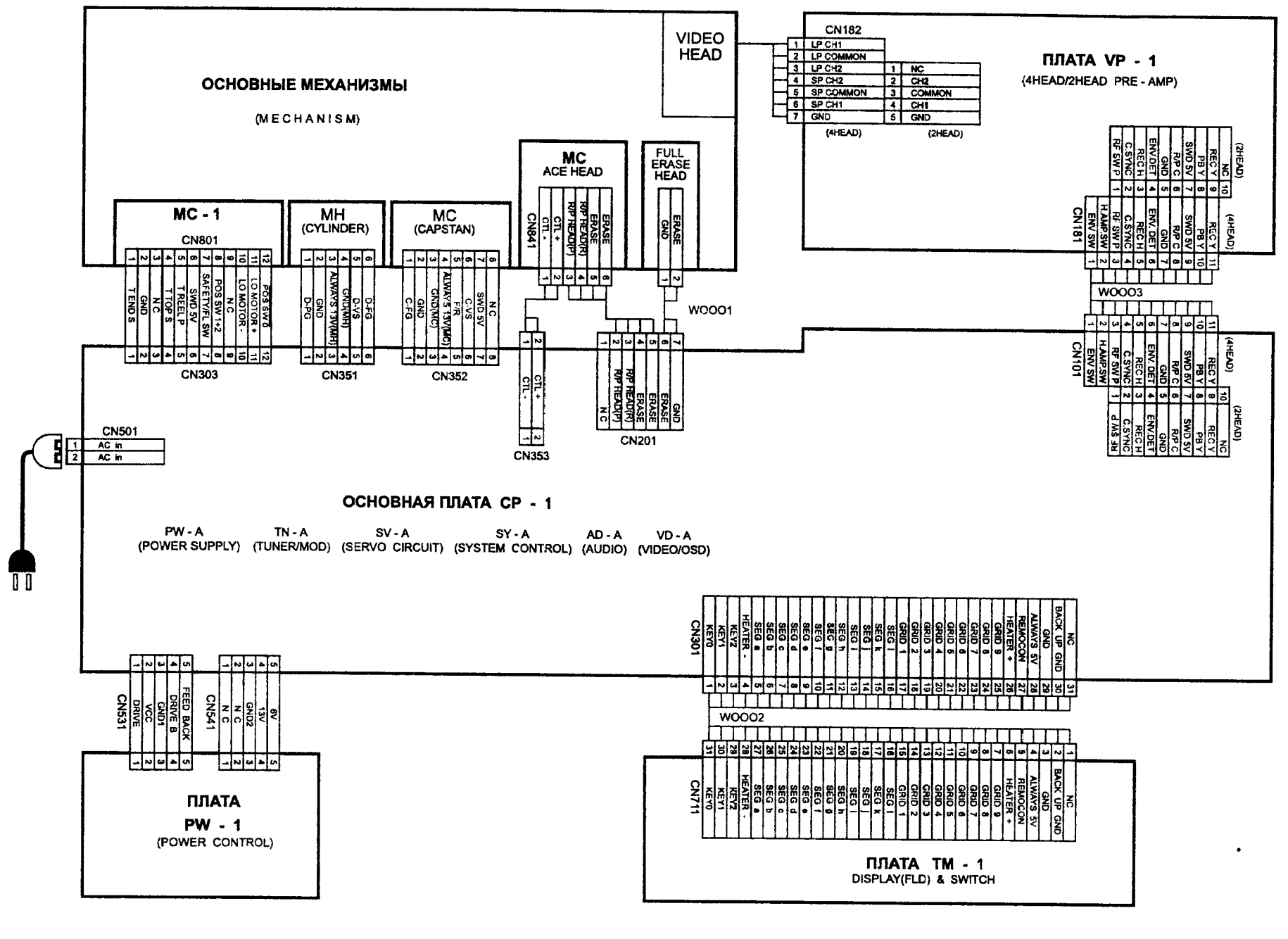
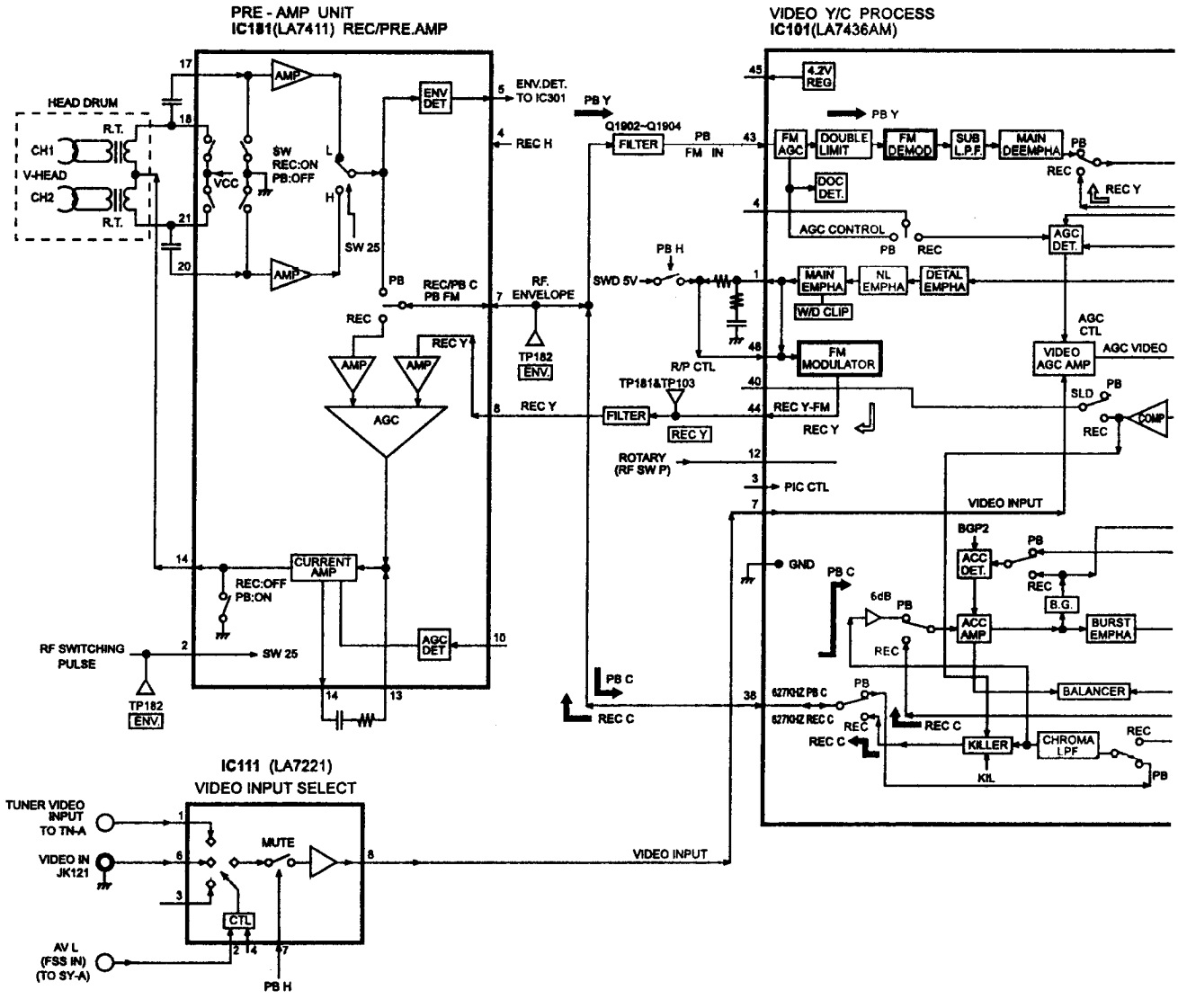
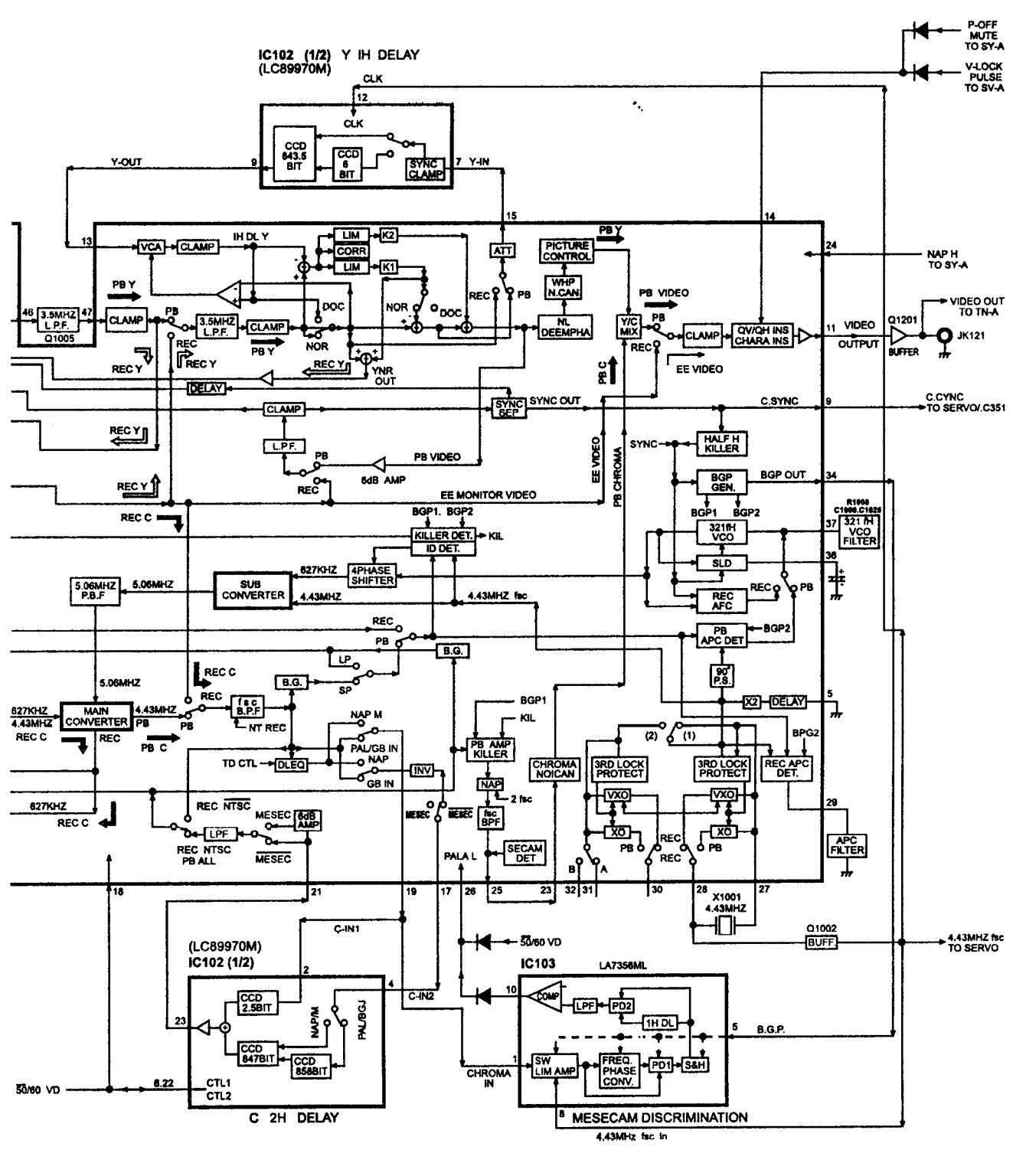
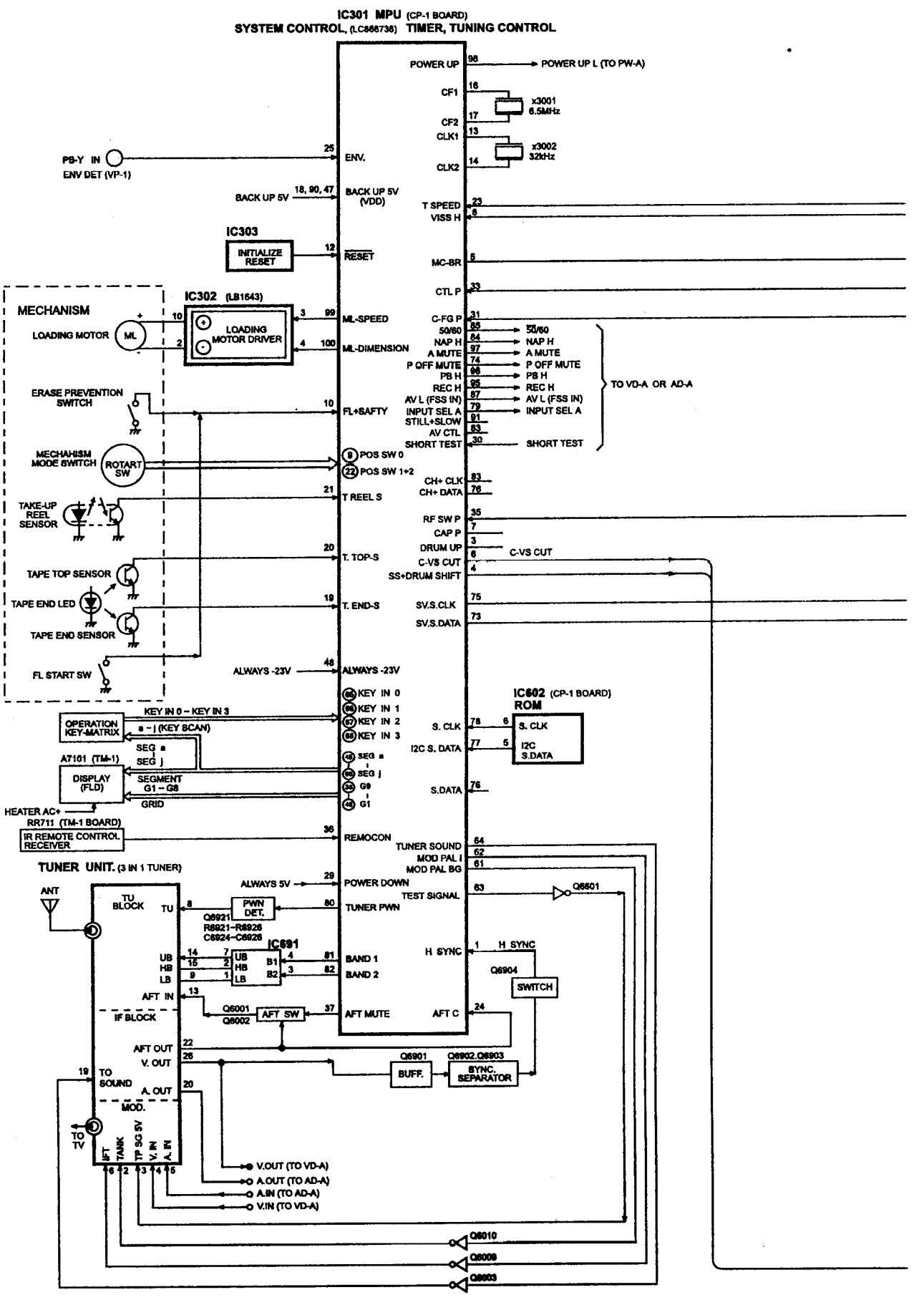
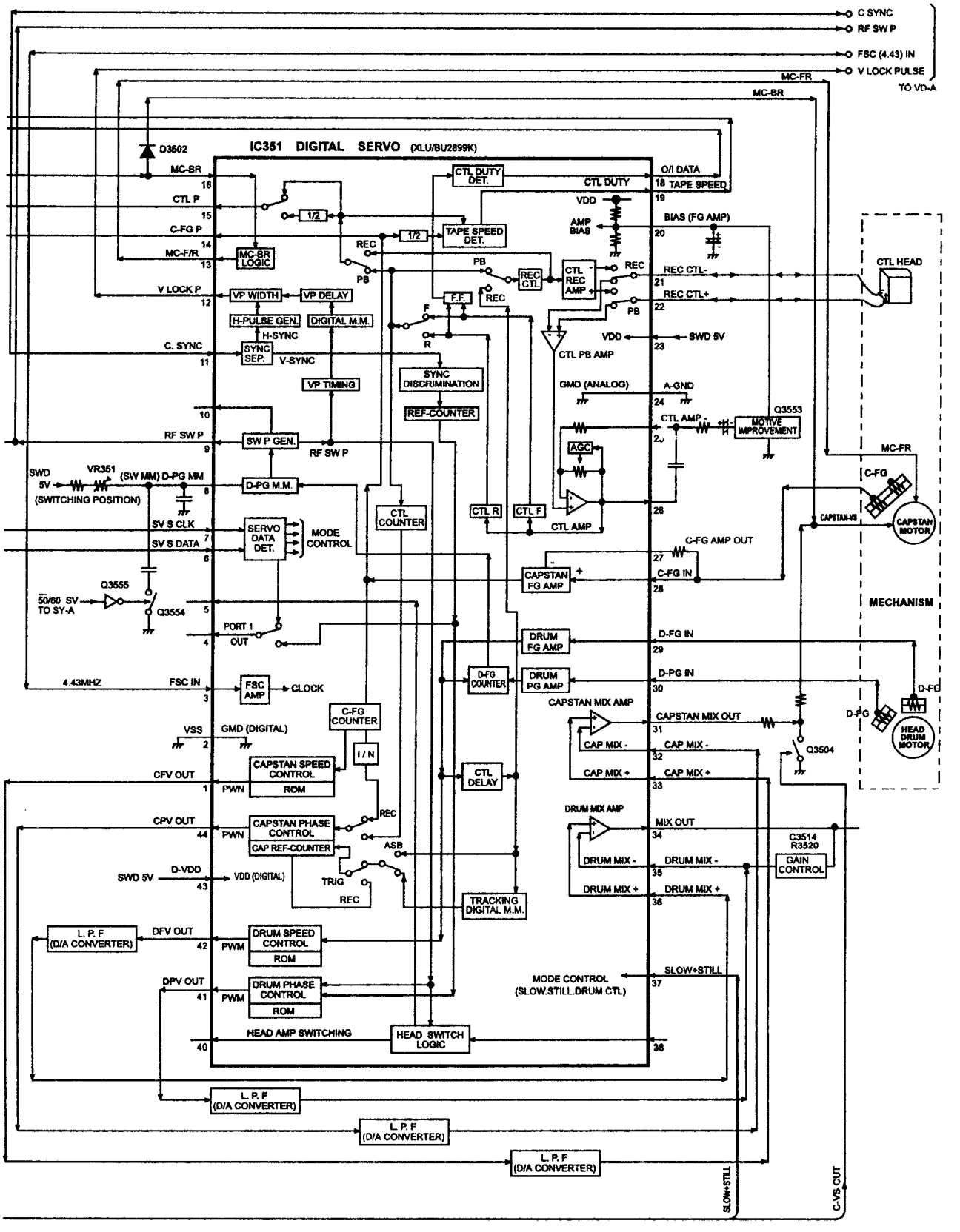
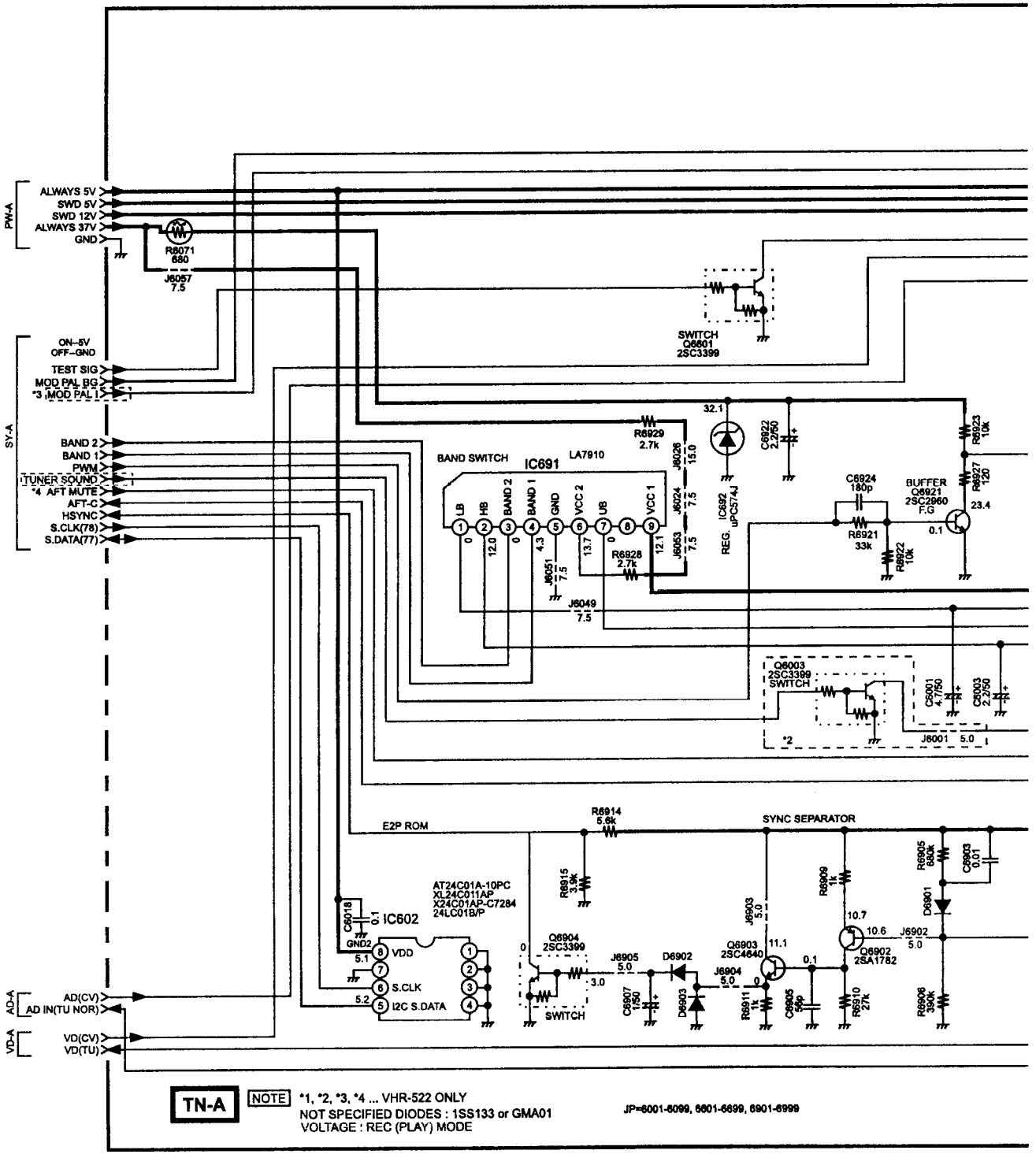

ОСНОВНЫЕ МЕХАНИЗМЫ
(MECHANISM)
VIDEO HEAD
CN182
LP CH1
LP COMMON
LP CH2
SP CH2
SP COMMON
SP CH1
GND
NC
CH2
COMMON
CH1
GND
(4HEAD)
(2HEAD)
ПЛАТА VP - 1
(4HEAD/2HEAD PRE - AMP)
MC - 1
CN801
MH
(CYLINDER)
MC
(CAPSTAN)
MC
ACE HEAD
CN841
FULL
ERASE
HEAD
CN181
CN101
WOOO3
WOOO1
CN303
CN351
CN352
CN353
CN201
CN501
AC in
AC in
ОСНОВНАЯ ПЛАТА CP - 1
PW - A
(POWER SUPPLY)
TN - A
(TUNER/MOD)
SV - A
(SERVO CIRCUIT)
SY - A
(SYSTEM CONTROL)
AD - A
(AUDIO)
VD - A
(VIDEO/OSD)
CN301
WOOO2
CN531
CN541
ПЛАТА
PW - 1
(POWER CONTROL)
CN711
ПЛАТА TM - 1
DISPLAY(FLD) & SWITCH

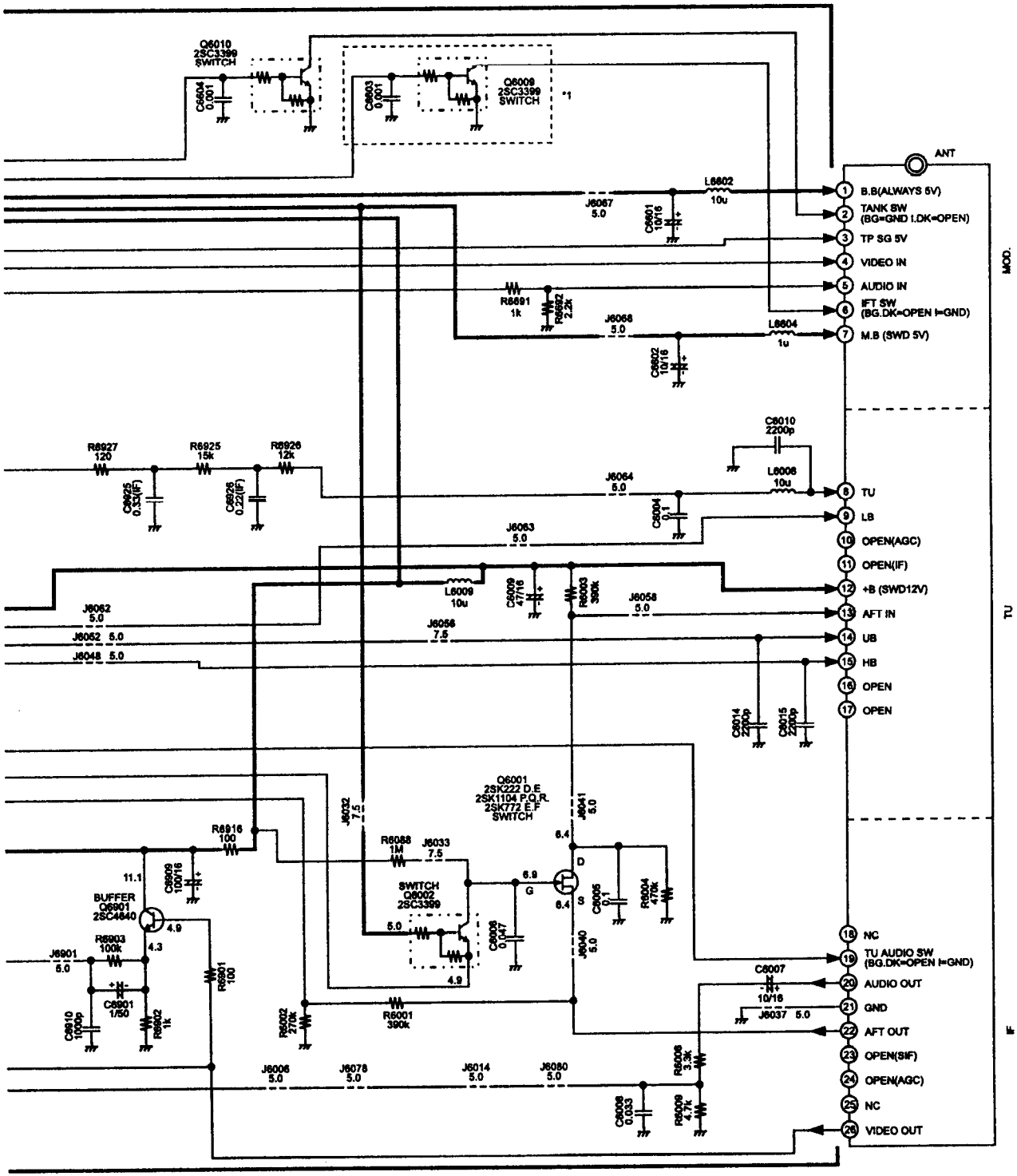

PRE - AMP UNIT
IC181(LA7411) REC/PRE.AMP
VIDEO Y/C PROCESS
IC101(LA7436AM)
HEAD DRUM
R.T.
CH1
V-HEAD
CH2
R.T.
17
18
21
20
AMP
AMP
SW
REC:ON
PB:OFF
VCC
L
H
SW 25
ENV DET
5
ENV.DET.
TO IC301
4
REC H
PB Y
Q1902~Q1904
FILTER
PB
FM IN
43
FM AGC
DOUBLE LIMIT
FM DEMOD
SUB L.P.F.
MAIN DEEMPHA
PB
REC
REC Y
DOC DET.
4
AGC CONTROL
PB
REC
AGC DET.
PB H
SWD 5V
1
MAIN EMPHA
NL EMPHA
DETAL EMPHA
W/D CLIP
PB
REC/PB C
PB FM
7
RF. ENVELOPE
TP182
ENV.
REC
REC Y
AMP
AMP
AGC
48
FM MODULATOR
R/P CTL
TP181&TP103
40
44
REC Y-FM
REC Y
FILTER
REC Y
8
REC Y
AGC CTL
VIDEO AGC AMP
AGC VIDEO
PB
SLD
REC
COMP
ROTARY
(RF SW P)
12
3
PIC CTL
7
VIDEO INPUT
BGP2
PB
ACC DET.
REC
B.G.
GND
PB C
6dB
PB
ACC AMP
BURST EMPHA
REC
14
CURRENT AMP
REC:OFF
PB:ON
AGC DET.
10
RF SWITCHING PULSE
2
SW 25
TP182
ENV.
14
13
PB C
REC C
38
627KHZ PB C
627KHZ REC C
PB
REC
REC C
REC C
BALANCER
KILLER
CHROMA L.P.F
REC
PB
KIL
IC111 (LA7221)
VIDEO INPUT SELECT
TUNER VIDEO INPUT TO TN-A
VIDEO IN JK121
AV L (FSS IN) (TO SY-A)
1
6
3
MUTE
8
VIDEO INPUT
CTL
2
14
7
PB H

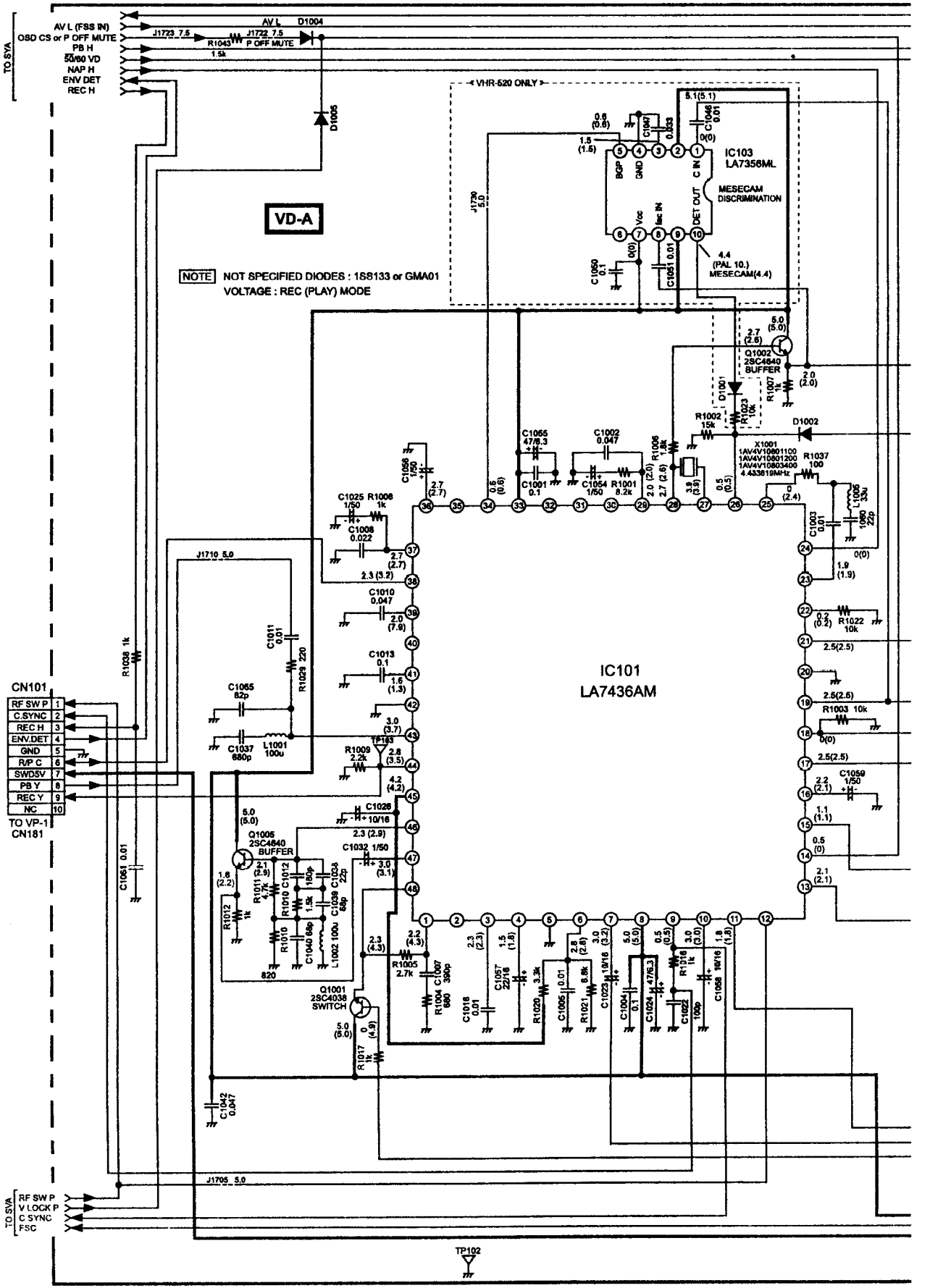

IC102 (1/2) Y IH DELAY
(LC89970M)
CLK
12
CCD 843.5 BIT
CCD 6 BIT
SYNC CLAMP
Y-OUT
9
7 Y-IN
15
14
13
VCA
CLAMP
IH DL Y
LIM
K2
CORR
LIM
K1
ATT
PICTURE CONTROL
PB Y
WHP N.CAN
NL DEEMPHA
PB VIDEO
Y/C MIX
CLAMP
QV/QH INS CHARA INS
24
NAP H TO SY-A
P-OFF MUTE TO SY-A
V-LOCK PULSE TO SV-A
11 VIDEO OUTPUT
Q1201
BUFFER
JK121
VIDEO OUT TO TN-A
46
3.5MHZ L.P.F.
47
Q1005
CLAMP
PB
3.5MHZ L.P.F.
CLAMP
DOC
NOR
REC
PB
REC Y
PB Y
YNR OUT
DELAY
CLAMP
SYNC SEP
SYNC OUT
C.SYNC
9
C.CYNC TO SERVO/.C351
PB C
EE VIDEO
L.P.F.
PB
PB VIDEO
6dB AMP
REC
EE MONITOR VIDEO
EE VIDEO
PB CHROMA
SYNC
HALF H KILLER
BGP GEN.
BGP OUT
34
BGP1
BGP2
R1008
C1008,C1625
321 fH VCO FILTER
37
321fH VCO
SLD
38
REC AFC
REC
PB
REC C
BGP1, BGP2
KILLER DET.
ID DET.
KIL
5.06MHZ P.B.F
5.06MHZ
SUB CONVERTER
627KHZ
4PHASE SHIFTER
4.43MHZ
4.43MHZ fsc
PB APC DET
BGP2
REC
PB
B.G.
LP
SP
90° P.S.
X2
DELAY
5
5.06MHZ
627KHZ
4.43MHZ
REC C
MAIN CONVERTER
4.43MHZ
PB
REC
PB C
fsc B.P.F
NT REC
B.G.
NAP M
PAL/GB IN
NAP
GB IN
TD CTL
DLEQ
INV
BGP1
KIL
PB AMP KILLER
NAP
2 fsc
CHROMA NOICAN
3RD LOCK PROTECT
3RD LOCK PROTECT
REC APC DET.
BPG2
(2)
(1)
VXO
VXO
XO
XO
REC
PB
REC
PB
627KHZ
REC C
REC NTSC
MESEC
6dB AMP
LPF
REC NTSC
PB ALL
MESEC
MESEC
fsc BPF
SECAM DET
PALA L
B
A
APC FILTER
29
18
21
19
17
26
25
23
32
31
30
28
X1001
4.43MHZ
27
C-IN1
50/60 VD
Q1002
BUFF
4.43MHZ fsc TO SERVO
(LC89970M)
IC102 (1/2)
IC103
LA7356ML
2
4
C-IN2
CCD 2.5BIT
CCD 847BIT
CCD 858BIT
NAP/M
PAL/BGJ
23
10
COMP
LPF
PD2
1H DL
5
B.G.P.
SW LIM AMP
FREQ. PHASE CONV.
PD1
S&H
1
CHROMA IN
50/60 VD
6,22
CTL1
CTL2
C 2H DELAY
8
MESECAM DISCRIMINATION
4.43MHz fsc in

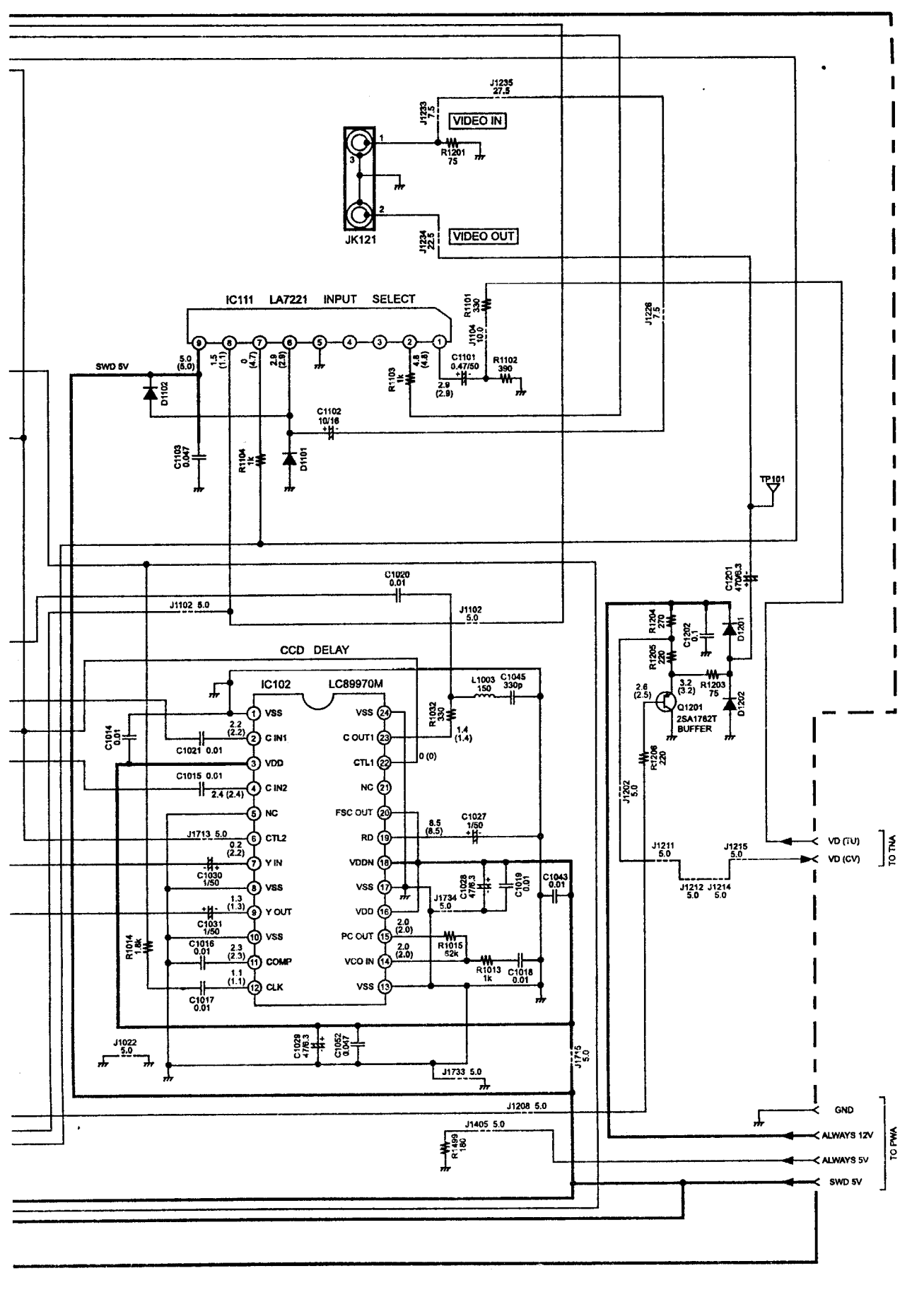

IC301 MPU (CP-1 BOARD)
SYSTEM CONTROL, (LC866736) TIMER, TUNING CONTROL
POWER UP
POWER UP L (TO PW-A)
CF1
CF2
x3001 6.5MHz
CLK1
CLK2
x3002 32kHz
PB-Y IN
ENV DET (VP-1)
ENV.
BACK UP 5V
BACK UP 5V (VDD)
T SPEED
VISS H
IC303
INITIALIZE RESET
RESET
MC-BR
CTL P
MECHANISM
IC302 (LB1643)
LOADING MOTOR
LOADING MOTOR DRIVER
ML-SPEED
ML-DIMENSION
C-FG P
50/60
NAP H
A MUTE
P OFF MUTE
PB H
REC H
AV L (FSS IN)
INPUT SEL A
STILL+SLOW
AV CTL
SHORT TEST
TO VD-A OR AD-A
ERASE PREVENTION SWITCH
FL+SAFTY
MECHANISM MODE SWITCH
ROTART SW
POS SW 0
POS SW 1+2
TAKE-UP REEL SENSOR
T REEL S
CH+ CLK
CH+ DATA
RF SW P
CAP P
DRUM UP
C-VS CUT
SS+DRUM SHIFT
TAPE TOP SENSOR
T. TOP-S
TAPE END LED
TAPE END SENSOR
T. END-S
SV.S.CLK
SV.S.DATA
FL START SW
ALWAYS -23V
KEY IN 0
KEY IN 1
KEY IN 2
KEY IN 3
KEY IN 0 – KEY IN 3
OPERATION KEY-MATRIX
a ~ j (KEY SCAN)
IC602 (CP-1 BOARD) ROM
S. CLK
I2C S. DATA
S.DATA
SEG a
SEG j
A7161 (TM-1)
DISPLAY (FLD)
SEGMENT G1 – G8
GRID
G9
G1
HEATER AC+
RR711 (TM-1 BOARD)
IR REMOTE CONTROL RECEIVER
REMOCON
TUNER UNIT. (3 IN 1 TUNER)
TUNER SOUND
MOD PAL I
MOD PAL BG
ANT
TU BLOCK
TU
PWN DET.
Q6921
R6921~R6926
C6924~C6926
TUNER PWN
POWER DOWN
TEST SIGNAL
Q6501
IC691
UB
HB
LB
B1
B2
BAND 1
BAND 2
H SYNC
Q6904
SWITCH
AFT IN
IF BLOCK
Q6001
Q6002
AFT SW
AFT MUTE
AFT C
AFT OUT
V. OUT
Q6901
BUFF.
Q6902,Q6903
SYNC. SEPARATOR
TO SOUND
A. OUT
MOD.
TO TV
IFT
TANK
TP SG 5V
V. IN
A. IN
V.OUT (TO VD-A)
A.OUT (TO AD-A)
A.IN (TO AD-A)
V.IN (TO VD-A)
Q6010
Q6009
Q6003

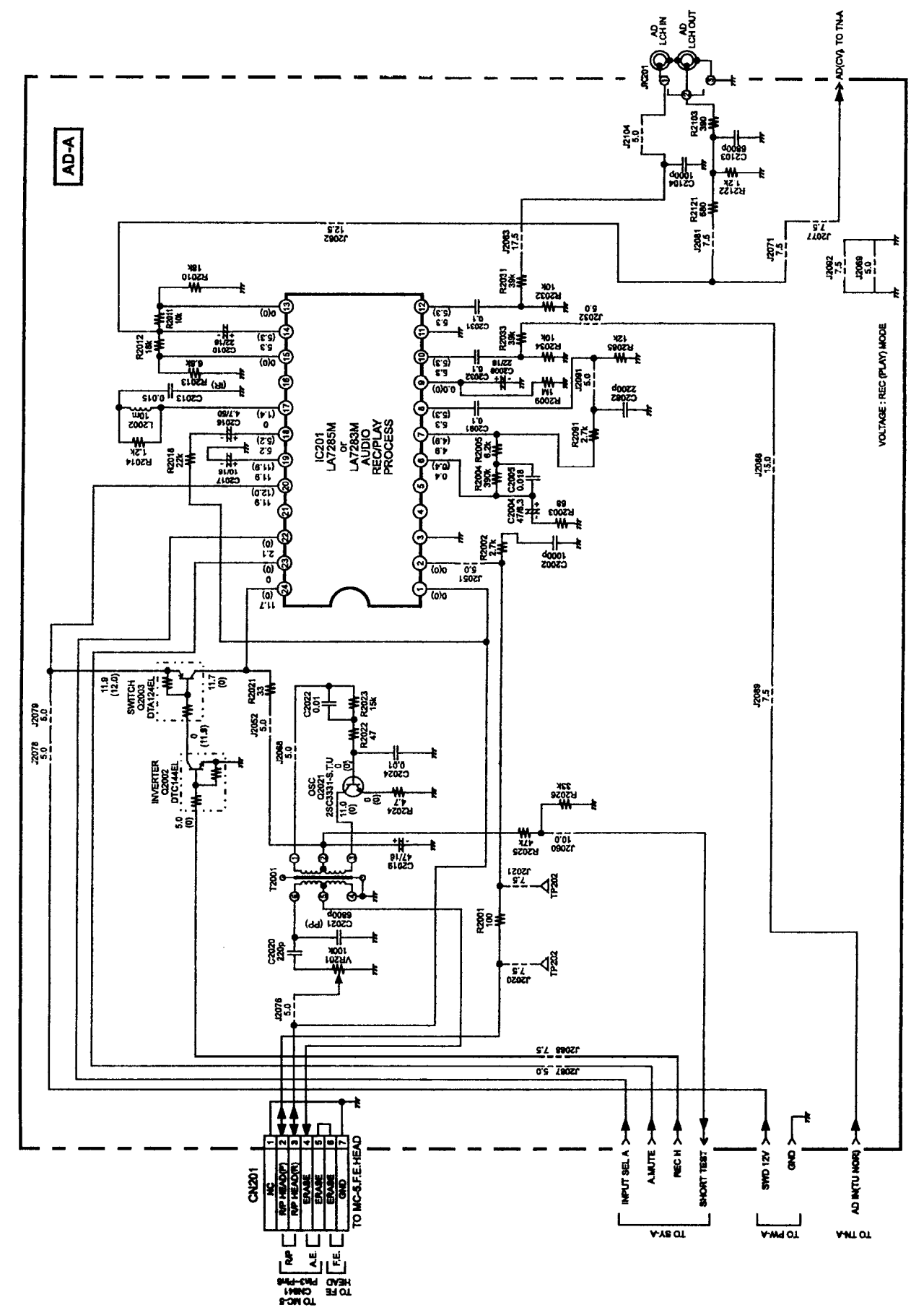

C SYNC
RF SW P
FSC (4.43) IN
V LOCK PULSE
TO VD-A
MC-FR
MC-BR
IC351 DIGITAL SERVO (XLU/BU2899K)
D3502
MC-BR
16
CTL P
15
C-FG P
14
MC-F/R
13
V LOCK P
12
C. SYNC
11
10
RF SW P
9
SWD 5V
VR351
(SW MM) D-PG MM
(SWITCHING POSITION)
8
SV S CLK
7
SV S DATA
6
Q3555
50/60 SV TO SY-A
Q3554
5
PORT 1 OUT
4
4.43MHZ
FSC IN
3
VSS
GMD (DIGITAL)
2
CFV OUT
1
CPV OUT
44
SWD 5V
D-VDD
43
L. P. F (D/A CONVERTER)
DFV OUT
42
DPV OUT
41
40
1/2
MC-BR LOGIC
VP WIDTH
VP DELAY
H-PULSE GEN.
DIGITAL M.M.
H-SYNC
SYNC SEP.
V-SYNC
VP TIMING
SW P GEN.
RF SW P
D-PG M.M.
SERVO DATA DET.
MODE CONTROL
FSC AMP
CLOCK
CAPSTAN SPEED CONTROL
PWM
ROM
CAPSTAN PHASE CONTROL
CAP REF-COUNTER
VDD (DIGITAL)
DRUM SPEED CONTROL
DRUM PHASE CONTROL
HEAD AMP SWITCHING
CTL DUTY DET.
TAPE SPEED DET.
REC
PB
CTL DUTY
O/I DATA
18
TAPE SPEED
19
VDD
AMP BIAS
BIAS (FG AMP)
20
REC CTL
CTL REC AMP
REC CTL-
21
REC CTL+
22
F.F.
F
R
VDD
SWD 5V
23
CTL PB AMP
SYNC DISCRIMINATION
REF-COUNTER
GMD (ANALOG)
A-GND
24
CTL AMP -
CTL AMP +
Q3553
MOTIVE IMPROVEMENT
AGC
CTL AMP
26
CTL COUNTER
CTL R
CTL F
C-FG AMP OUT
27
CAPSTAN FG AMP
C-FG IN
28
D-FG IN
29
DRUM FG AMP
D-FG COUNTER
D-PG IN
30
DRUM PG AMP
C-FG COUNTER
I / N
CAPSTAN MIX AMP
CAPSTAN MIX OUT
31
CAP MIX -
32
CAP MIX +
33
CTL DELAY
DRUM MIX AMP
MIX OUT
34
DRUM MIX -
35
DRUM MIX +
36
TRACKING DIGITAL M.M.
MODE CONTROL (SLOW.STILL.DRUM CTL)
SLOW+STILL
37
HEAD SWITCH LOGIC
38
ASB
TRIG
REC
Q3504
C3514
R3520
GAIN CONTROL
L. P. F (D/A CONVERTER)
L. P. F (D/A CONVERTER)
L. P. F (D/A CONVERTER)
SLOW+STILL
C-VS OUT
CTL HEAD
MC-FR
C-FG
CAPSTAN MOTOR
CAPSTAN-VS
MECHANISM
D-FG
D-PG
HEAD DRUM MOTOR

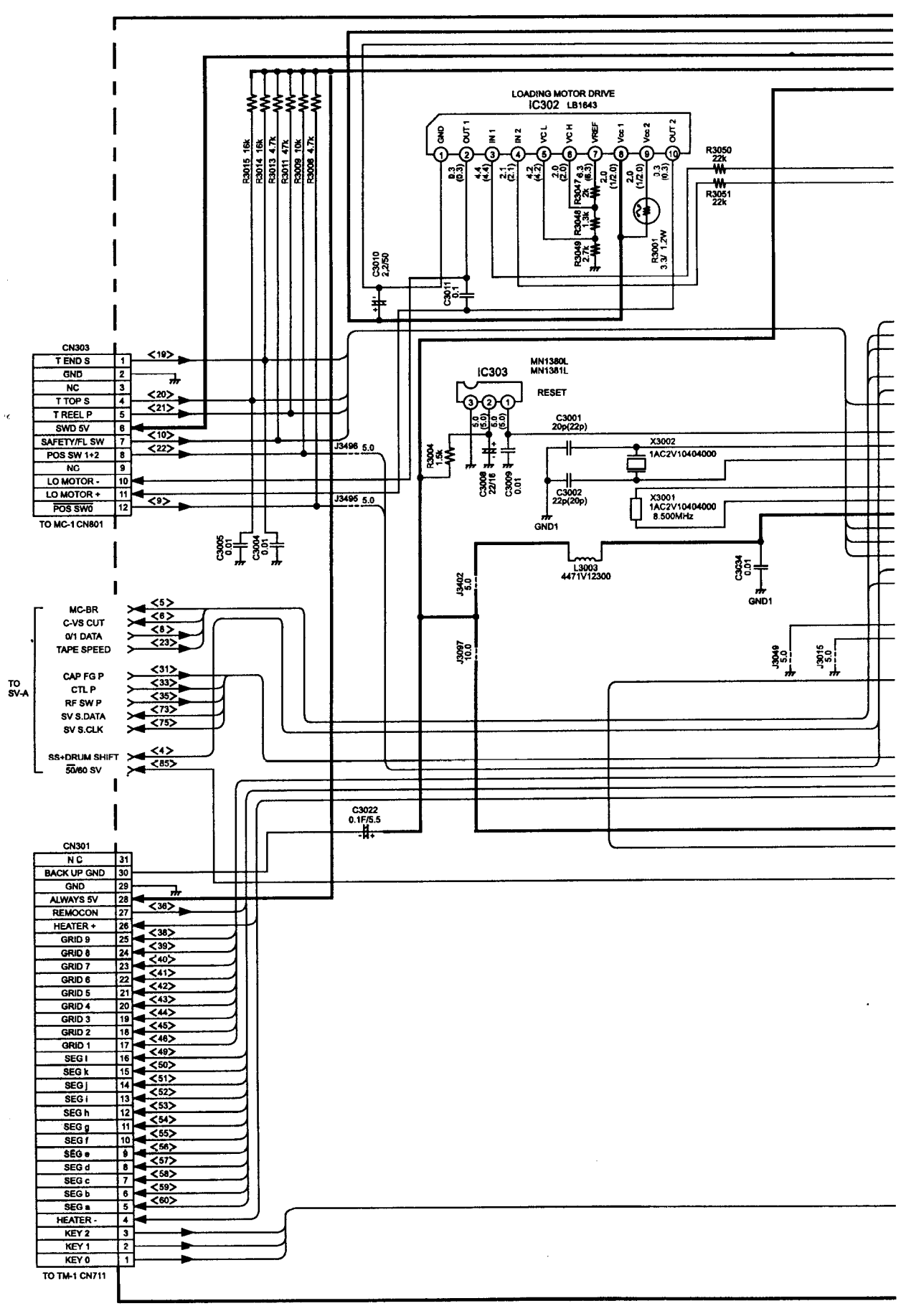

PW-A
ALWAYS 5V
SWD 5V
SWD 12V
ALWAYS 37V
GND
R6071
680
J6057
7.5
SY-A
ON--5V
OFF--GND
TEST SIG
MOD PAL BG
*3 ,MOD PAL I
BAND 2
BAND 1
PWM
TUNER SOUND
*4 AFT MUTE
AFT-C
HSYNC
S.CLK(78)
S.DATA(77)
SWITCH
Q6601
2SC3399
BAND SWITCH
IC691
LA7910
LB
HB
BAND 2
BAND 1
GND
VCC 2
UB
VCC 1
R6929
2.7k
R6928
2.7k
J6026
J6024
J6053
J6051
J6049
7.5
REG.
IC692
uPC574J
C6922
2.2/50
C6924
180p
R6921
33k
BUFFER
Q6921
2SC2960
F.G
R6923
10k
R6927
120
R6922
10k
Q6003
2SC3399
SWITCH
C6001
4.7/50
C6003
2.2/50
*2
J6001
5.0
E2P ROM
IC602
AT24C01A-10PC
XL24C011AP
X24C01AP-C7284
24LC01B/P
C6018
0.1
GND2
VDD
S.CLK
I2C S.DATA
R6914
5.6k
R6915
3.9k
SYNC SEPARATOR
Q6904
2SC3399
SWITCH
J6905
D6902
J6903
Q6903
2SC4640
R6909
1k
Q6902
2SA1782
J6902
J6904
R6911
1k
R6910
27k
C6907
1/50
D6903
C6905
56p
R6905
680k
C6903
0.01
D6901
R6906
390k
AD-A
AD(CV)
AD IN(TU NOR)
VD-A
VD(CV)
VD(TU)
TN-A
NOTE
*1, *2, *3, *4 ... VHR-522 ONLY
NOT SPECIFIED DIODES : 1SS133 or GMA01
VOLTAGE : REC (PLAY) MODE
JP=6001-6099, 6601-6699, 6901-6999

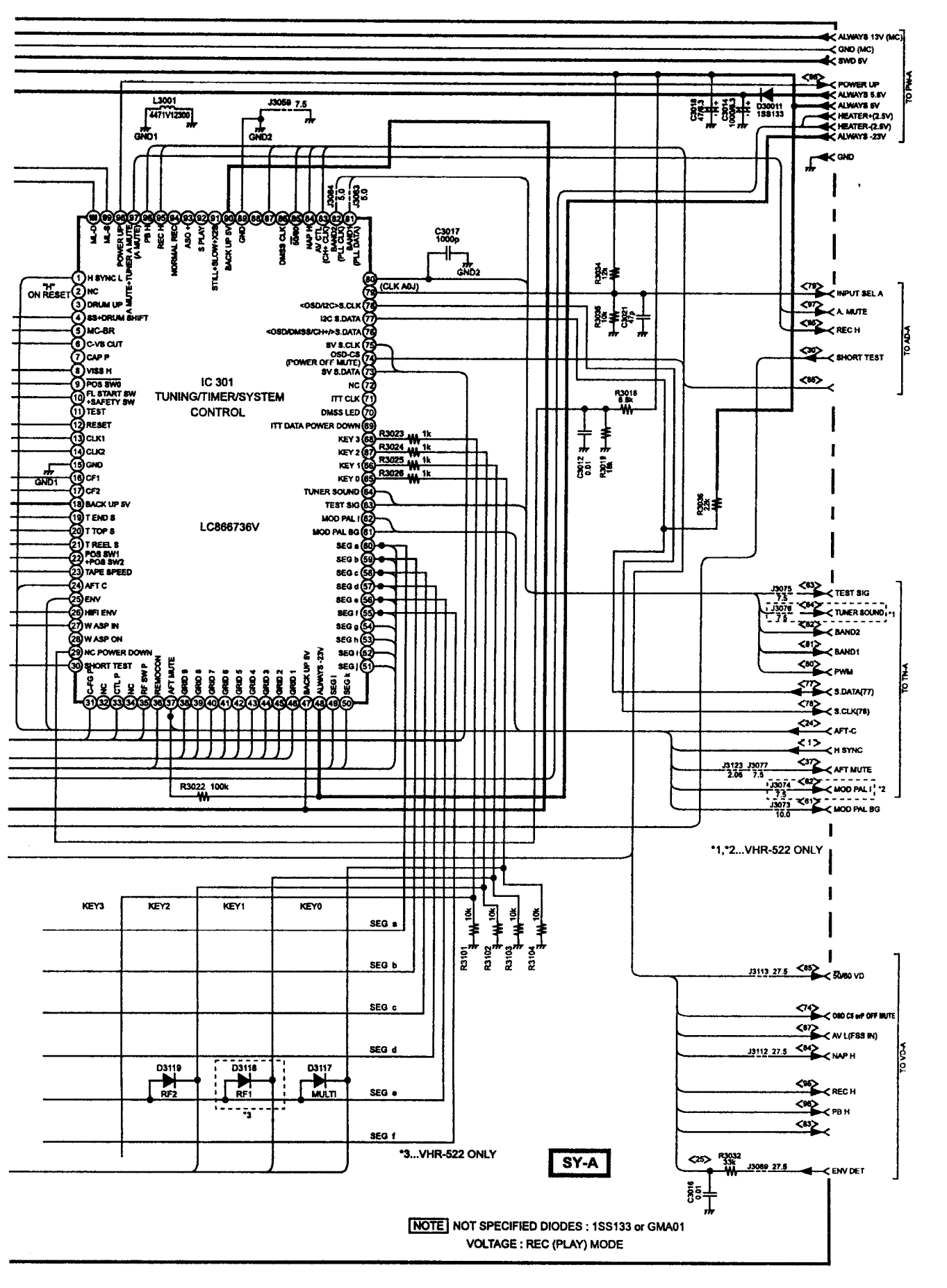

Q6010
2SC3399
SWITCH
C6004
0.001
C6003
0.001
Q6009
2SC3399
SWITCH
*1
ANT
L6002
10u
J6067
5.0
C6001
10/16
1 B.B(ALWAYS 5V)
2 TANK SW
(BG=GND I.DK=OPEN)
3 TP SG 5V
4 VIDEO IN
5 AUDIO IN
6 IFT SW
(BG.DK=OPEN I=GND)
7 M.B (SWD 5V)
MOD.
R6891
1k
R6892
2.2k
J6066
5.0
L6004
1u
C6002
10/16
C6010
2200p
R6927
120
R6925
15k
R6926
12k
C6925
0.33(IF)
C6926
0.22(IF)
J6064
5.0
L6006
10u
C6004
0.1
8 TU
9 LB
J6063
5.0
10 OPEN(AGC)
11 OPEN(IF)
L6009
10u
C6009
47/16
R6003
390k
12 +B (SWD12V)
J6058
5.0
13 AFT IN
J6062
5.0
J6056
7.5
14 UB
J6052 5.0
J6048 5.0
15 HB
16 OPEN
17 OPEN
C6014
2200p
C6015
2200p
TU
Q6001
2SK222 D.E
2SK1104 P.Q.R
2SK772 E.F
SWITCH
J6032
7.5
J6041
5.0
6.4
R6916
100
R6088
1M
J6033
7.5
D
6.9
G
6.4
S
SWITCH
Q6002
2SC3399
5.0
4.9
C6005
0.1
R6004
470k
C6006
0.47
J6040
5.0
11.1
C6909
10/16
BUFFER
Q6901
2SC4640
4.9
R6903
100k
4.3
J6901
5.0
R6901
100
C6901
1/50
C6910
1000p
R6902
1k
R6002
270k
R6001
390k
18 NC
19 TU AUDIO SW
(BG.DK=OPEN I=GND)
C6007
20 AUDIO OUT
10/16
21 GND
J6037 5.0
22 AFT OUT
23 OPEN(SIF)
24 OPEN(AGC)
25 NC
26 VIDEO OUT
IF
J6006
5.0
J6078
5.0
J6014
5.0
J6080
5.0
R6006
3.3k
C6008
0.033
R6009
4.7k

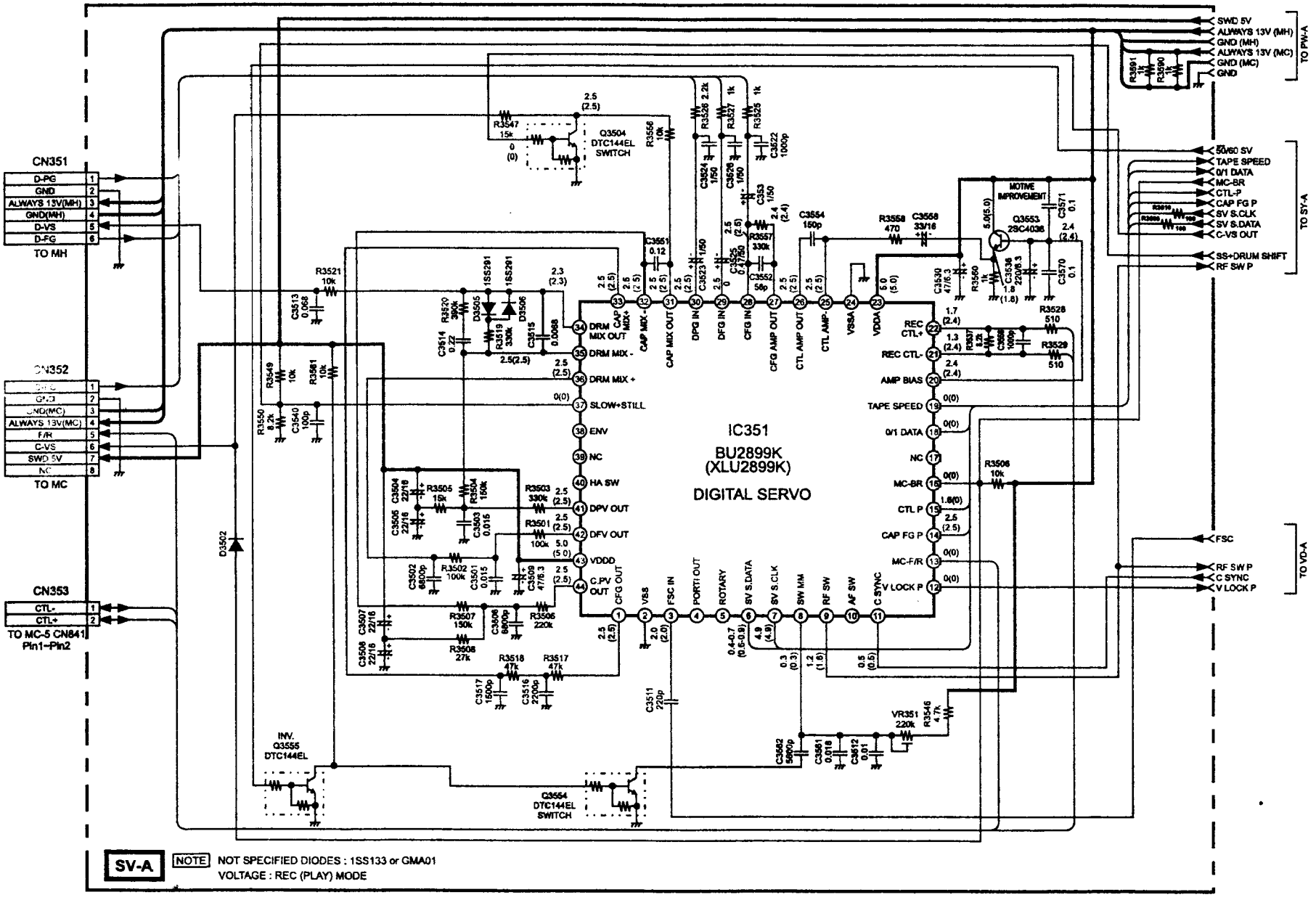

VD-A
NOTE NOT SPECIFIED DIODES : 1SS133 or GMA01
VOLTAGE : REC (PLAY) MODE
< VHR-520 ONLY >
IC103
LA7356ML
MESECAM
DISCRIMINATION
IC101
LA7436AM
CN101
RF SW P
C.SYNC
REC H
ENV.DET
GND
R/P C
SWD5V
PB Y
REC Y
NC
TO VP-1
CN181
TO SVA
RF SW P
V LOCK P
C SYNC
FSC
AV L (FSS IN)
OSD CS or P OFF MUTE
PB H
50/60 VD
NAP H
ENV DET
REC H
P OFF MUTE
Q1002
2SC4640
BUFFER
Q1005
2SC4640
BUFFER
Q1001
2SC4038
SWITCH
X1001
1AV4V10801100
1AV4V10801200
1AV4V10803400
4.433619MHz

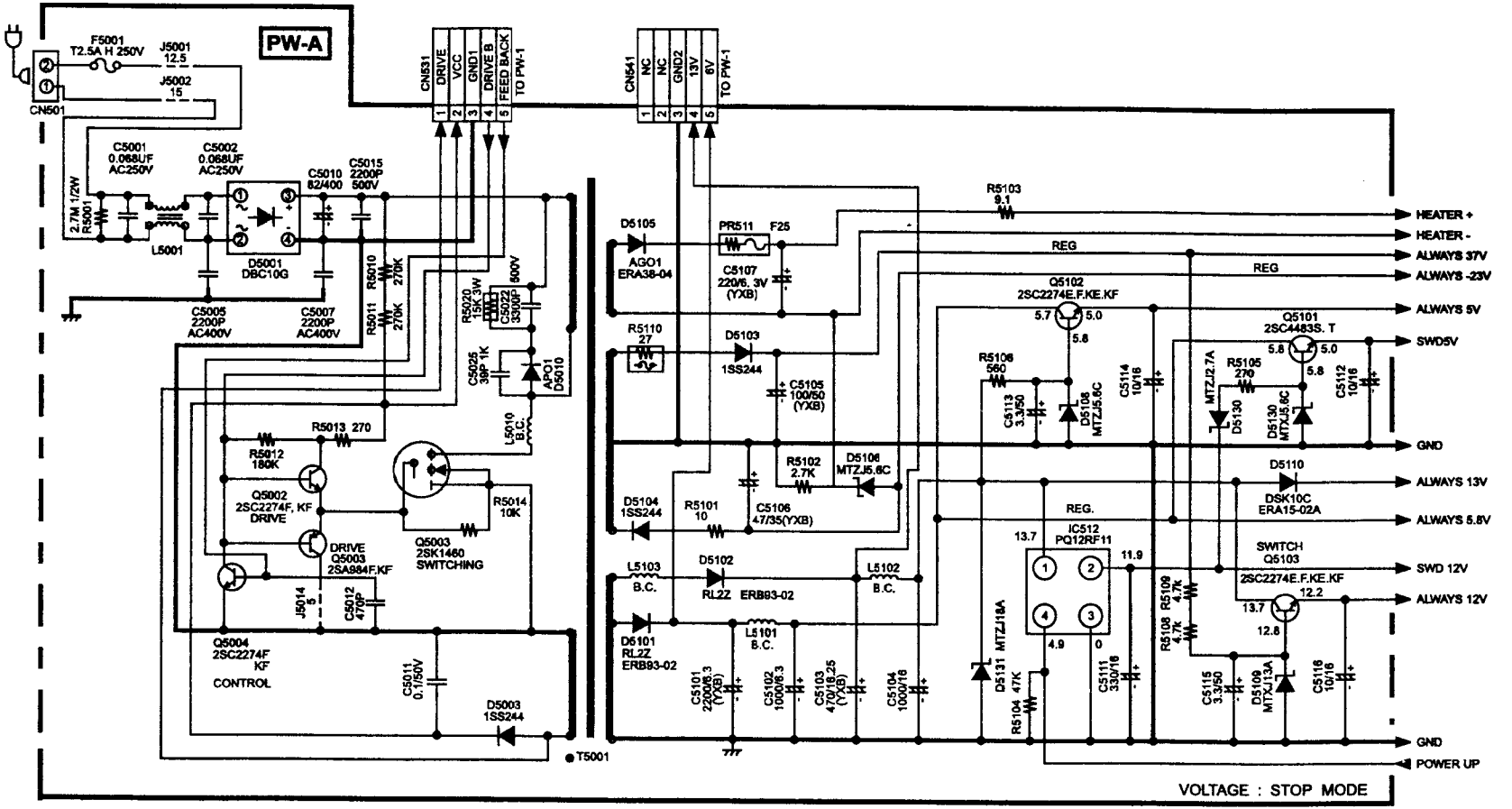

J1235
27.5
J1233
7.5
VIDEO IN
R1201
75
JK121
VIDEO OUT
J1234
22.5
IC111 LA7221 INPUT SELECT
R1101
330
J1104
10.0
J1226
7.5
SWD 5V
D1102
C1101
0.47/50
R1102
390
R1103
1k
C1102
10/16
C1103
0.047
R1104
1k
D1101
TP101
C1020
0.01
J1102 5.0
J1102
5.0
CCD DELAY
IC102 LC89970M
L1003
150
C1045
330p
R1032
330
C1014
0.01
C1021 0.01
C1015 0.01
C1030
1/50
C1031
1/50
C1016
0.01
R1014
1k
C1017
0.01
VSS
C IN1
VDD
C IN2
NC
CTL2
Y IN
VSS
Y OUT
VSS
COMP
CLK
VSS
C OUT1
CTL1
NC
FSC OUT
RD
VDDN
VSS
VDD
PC OUT
VCO IN
VSS
C1027
1/50
C1028
47/6.3
C1019
0.01
C1043
0.01
J1734
5.0
R1015
52k
R1013
1k
C1018
0.01
J1022
5.0
C1029
47/6.3
C1052
0.047
J1733 5.0
J1715
5.0
C1201
47/6.3
R1204
270
C1302
0.1
D1201
R1205
220
R1203
75
Q1201
2SA1762T
BUFFER
D1202
R1206
220
J1202
5.0
J1211
5.0
J1215
5.0
J1212 J1214
5.0 5.0
VD (TU)
VD (CV)
TO TNA
J1208 5.0
J1405 5.0
R1169
180
GND
ALWAYS 12V
ALWAYS 5V
SWD 5V
TO PWA

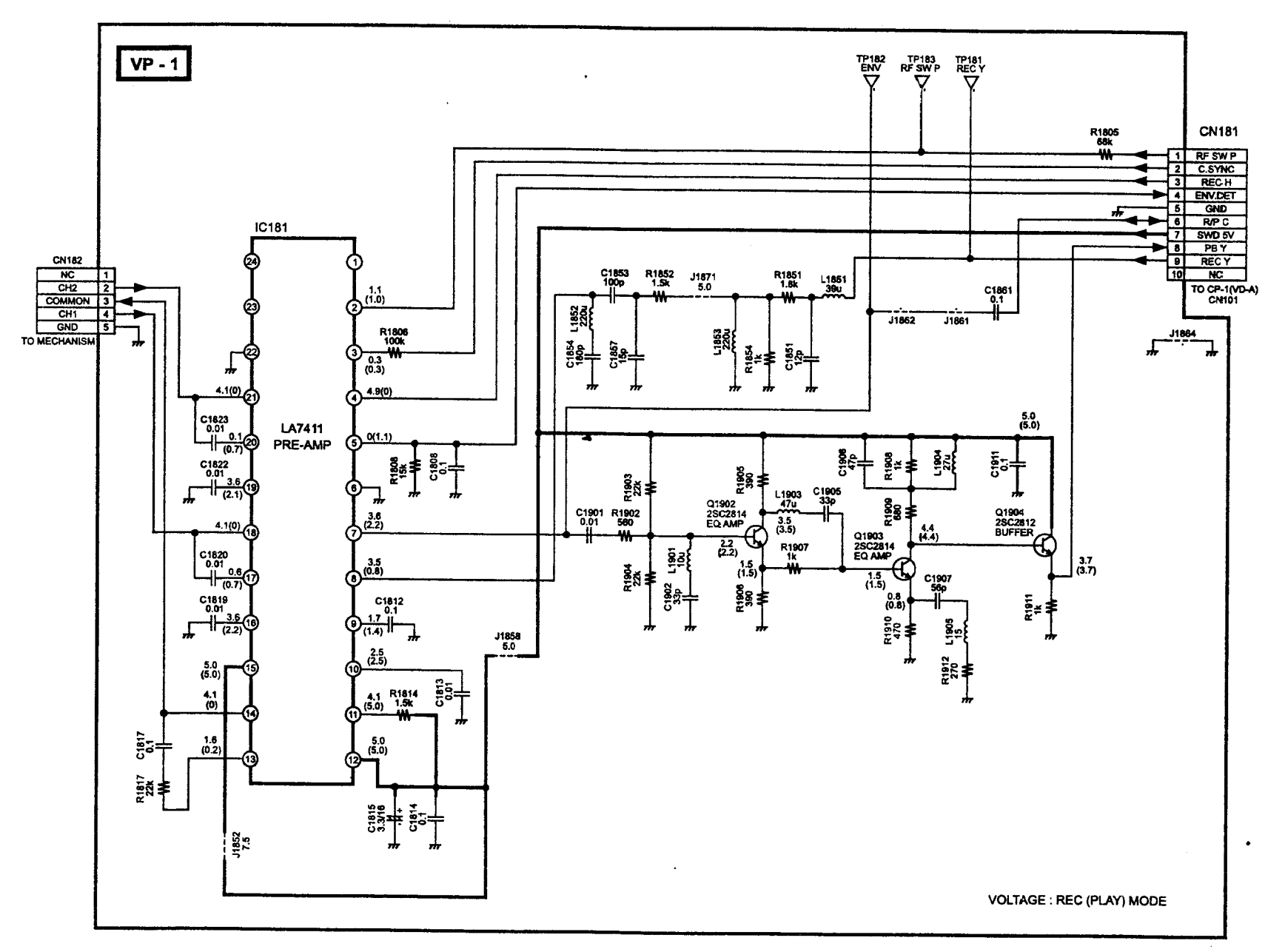

AD-A
IC201
LA7285M
or
LA7283M
AUDIO
REC/PLAY
PROCESS
CN201
TO M/C-S.F.E.HEAD
TO M/C-S PWB CN841
TO F/E HEAD
TO TN-A
TO PW-A
TO ST-A
AD(CH) TO TN-A
VOLTAGE : REC (PLAY) MODE


LOADING MOTOR DRIVE
IC302 LB1643
GND
OUT 1
IN 1
IN 2
VC L
VC H
VREF
Vcc 1
Vcc 2
OUT 2
R3050 22k
R3051 22k
R3047 2k
R3048 1.3k
R3049 2.7k
R3001 3.3/ 1.2W
C3010 2.2/50
C3011 0.1
R3015 16k
R3014 16k
R3013 4.7k
R3011 47k
R3009 10k
R3008 4.7k
IC303
MN1380L
MN1381L
RESET
R3004 1.5k
C3008 22/16
C3009 0.01
C3001 20p(22p)
C3002 22p(20p)
X3002 1AC2V10404000
X3001 1AC2V10404000 8.500MHz
GND1
L3003 4471V12300
C3234 0.01
J3402 5.0
J3097 10.0
J3049 5.0
J3015 5.0
C3005 0.01
C3004 0.01
J3496 5.0
J3495 5.0
C3022 0.1F/5.5
CN303
T END S
GND
NC
T TOP S
T REEL P
SWD 5V
SAFETY/FL SW
POS SW 1+2
NC
LO MOTOR -
LO MOTOR +
POS SW0
TO MC-1 CN801
MC-BR
C-VS CUT
0/1 DATA
TAPE SPEED
CAP FG P
CTL P
RF SW P
SV S.DATA
SV S.CLK
SS+DRUM SHIFT
50/60 SV
TO SV-A
CN301
N C
BACK UP GND
GND
ALWAYS 5V
REMOCON
HEATER +
GRID 9
GRID 8
GRID 7
GRID 6
GRID 5
GRID 4
GRID 3
GRID 2
GRID 1
SEG l
SEG k
SEG j
SEG i
SEG h
SEG g
SEG f
SEG e
SEG d
SEG c
SEG b
SEG a
HEATER -
KEY 2
KEY 1
KEY 0
TO TM-1 CN711


IC 301
TUNING/TIMER/SYSTEM
CONTROL
LC866736V
ALWAYS 13V (MC)
GND (MC)
SWD 5V
POWER UP
ALWAYS 5.8V
ALWAYS 8V
HEATER+(2.5V)
HEATER-(2.5V)
ALWAYS -23V
GND
TO PWA
INPUT SEL A
A. MUTE
REC H
SHORT TEST
TO ADA
TEST SIG
TUNER SOUND
BAND2
BAND1
PWM
S.DATA(77)
S.CLK(78)
AFT-C
H SYNC
AFT MUTE
MOD PAL I
MOD PAL BG
TO TNA
*1,*2...VHR-522 ONLY
50/60 VD
OSD CS or OFF MUTE
AV L(FSS IN)
NAP H
REC H
PB H
ENV DET
TO VDA
KEY3
KEY2
KEY1
KEY0
SEG a
SEG b
SEG c
SEG d
SEG e
SEG f
D3119
RF2
D3118
RF1
D3117
MULTI
*3...VHR-522 ONLY
SY-A
NOTE NOT SPECIFIED DIODES : 1SS133 or GMA01
VOLTAGE : REC (PLAY) MODE


CN351
D-PG
GND
ALWAYS 13V(MH)
GND(MH)
D-VS
D-FG
TO MH
CN352
GND
GND(MC)
ALWAYS 13V(MC)
F/R
C-VS
SWD 5V
NC
TO MC
CN353
CTL-
CTL+
TO MC-5 CN841
Pin1-Pin2
IC351
BU2899K
(XLU2899K)
DIGITAL SERVO
Q3504
DTC144EL
SWITCH
Q3553
2SC4036
MOTIVE
IMPROVEMENT
INV.
Q3555
DTC144EL
Q3554
DTC144EL
SWITCH
DRM MIX OUT
DRM MIX -
DRM MIX +
SLOW+STILL
ENV
NC
HA SW
DPV OUT
DFV OUT
VDDD
C.PV OUT
CFG OUT
VSS
FSC IN
PORTI OUT
ROTARY
SV S.DATA
SV S.CLK
SW MM
RF SW
AF SW
C SYNC
V LOCK P
MC-F/R
CAP FG P
CTL P
MC-BR
NC
TAPE SPEED
0/1 DATA
AMP BIAS
REC CTL-
REC CTL+
VDDA
VSSA
CTL AMP-
CTL AMP OUT
CFG AMP OUT
CFG IN
DFG IN
DPG IN
CAP MIX OUT
CAP MIX-
CAP MIX+
SWD 5V
ALWAYS 13V (MH)
GND (MH)
ALWAYS 13V (MC)
GND (MC)
GND
TO PW-A
50/60 SV
TAPE SPEED
0/1 DATA
MC-BR
CTL-P
CAP FG P
SV S.CLK
SV S.DATA
C-VS OUT
TO SY-A
SS+DRUM SHIFT
RF SW P
FSC
RF SW P
C SYNC
V LOCK P
TO VD-A
SV-A
NOTE
NOT SPECIFIED DIODES : 1SS133 or GMA01
VOLTAGE : REC (PLAY) MODE


PW-A
F5001
T2.5A H 250V
J5001
12.5
J5002
15
CN501
CN631
DRIVE
VCC
GND1
DRIVE B
FEED BACK
TO PW-1
CN641
NC
NC
GND2
13V
6V
TO PW-1
C5001
0.068UF
AC250V
C5002
0.068UF
AC250V
C5010
82/400
C5015
2200P
500V
2.7M 1/2W
R5001
L5001
D5001
DBC10G
C5005
2200P
AC400V
C5007
2200P
AC400V
R5010
270K
R5011
270K
R5020
15K 3W
C5022
3300P
500V
C5025
39P 1K
APO1
D5010
L5010
B.C.
R5013 270
R5012
180K
Q5002
2SC2274F, KF
DRIVE
Q5003
2SK1460
SWITCHING
R5014
10K
DRIVE
Q5003
2SA984F,KF
J5014
5
C5012
470P
Q5004
2SC2274F
KF
CONTROL
C5011
0.1/50V
D5003
1SS244
T5001
D5105
AGO1
ERA38-04
PR511
F25
C5107
220/6.3V
(YXB)
R5110
27
D5103
1SS244
C5105
100/50
(YXB)
R5103
9.1
REG
REG
HEATER +
HEATER -
ALWAYS 37V
ALWAYS -23V
ALWAYS 5V
SWD5V
GND
ALWAYS 13V
ALWAYS 5.8V
SWD 12V
ALWAYS 12V
GND
POWER UP
Q5102
2SC2274E.F.KE.KF
5.7
5.0
5.8
Q5101
2SC4483S. T
5.8
5.0
5.8
R5106
560
C5113
3.3/50
D5108
MTZJ5.6C
C5114
10/16
R5105
270
MTZJ2.7A
D5130
D5130
MTZJ5.6C
C5112
10/16
R5102
2.7K
D5106
MTZJ5.6C
D5104
1SS244
R5101
10
C5106
47/35(YXB)
D5110
DSK10C
ERA15-02A
REG.
IC512
PQ12RF11
13.7
11.9
4.9
0
SWITCH
Q5103
2SC2274E.F.KE.KF
13.7
12.2
12.8
L5103
B.C.
D5102
RL2Z ERB83-02
L5102
B.C.
D6101
RL2Z
ERB83-02
L5101
B.C.
C5101
2200/6.3
(YXB)
C5102
1000/6.3
C5103
470/18.25
(YXB)
C5104
1000/16
D5131 MTZJ18A
R5104 47K
R5108
4.7K
R5109
4.7K
C5111
33/16
C5115
3.3/50
D5109
MTZJ13A
C5116
10/16
VOLTAGE : STOP MODE


VP - 1
TP182 ENV
TP183 RF SW P
TP181 REC Y
CN181
1 RF SW P
2 C.SYNC
3 REC H
4 ENV.DET
5 GND
6 R/P C
7 SWD 5V
8 PB Y
9 REC Y
10 NC
TO CP-1(VD-A) CN101
CN182
NC 1
CH2 2
COMMON 3
CH1 4
GND 5
TO MECHANISM
IC181
LA7411
PRE-AMP
R1805 68k
R1806 100k
C1853 100p
R1852 1.5k
J1871 5.0
R1851 1.8k
L1851 39u
C1861 0.1
J1862
J1861
J1864
L1852 220u
C1854 180p
C1857 15p
L1853 220u
R1854 1k
C1851 12p
C1823 0.01
C1822 0.01
C1820 0.01
C1819 0.01
C1808 0.1
R1808 15k
C1901 0.01
R1902 560
R1903 22k
R1904 22k
L1901 10u
C1902 33p
Q1902 2SC2814 EQ AMP
R1905 390
R1906 390
L1903 47u
C1905 33p
R1907 1k
Q1903 2SC2814 EQ AMP
C1906 47p
R1908 1k
R1909 680
L1904 27u
R1910 470
C1907 56p
L1905 15
R1912 270
C1911 0.1
Q1904 2SC2812 BUFFER
R1911 1k
C1812 0.1
C1813 0.01
R1814 1.5k
C1817 0.1
R1817 22k
C1815 3.3/16
C1814 0.1
J1858 5.0
J1852 7.5
1.1 (1.0)
0.3 (0.3)
4.9(0)
0(1.1)
3.6 (2.2)
3.5 (0.8)
1.7 (1.4)
2.5 (2.5)
4.1 (5.0)
5.0 (5.0)
1.6 (0.2)
4.1 (0)
4.1(0)
3.6 (2.1)
0.6 (0.7)
3.6 (2.2)
5.0 (5.0)
0.1 (0.7)
2.2 (2.2)
3.5 (3.5)
1.5 (1.5)
4.4 (4.4)
0.8 (0.8)
3.7 (3.7)
VOLTAGE : REC (PLAY) MODE

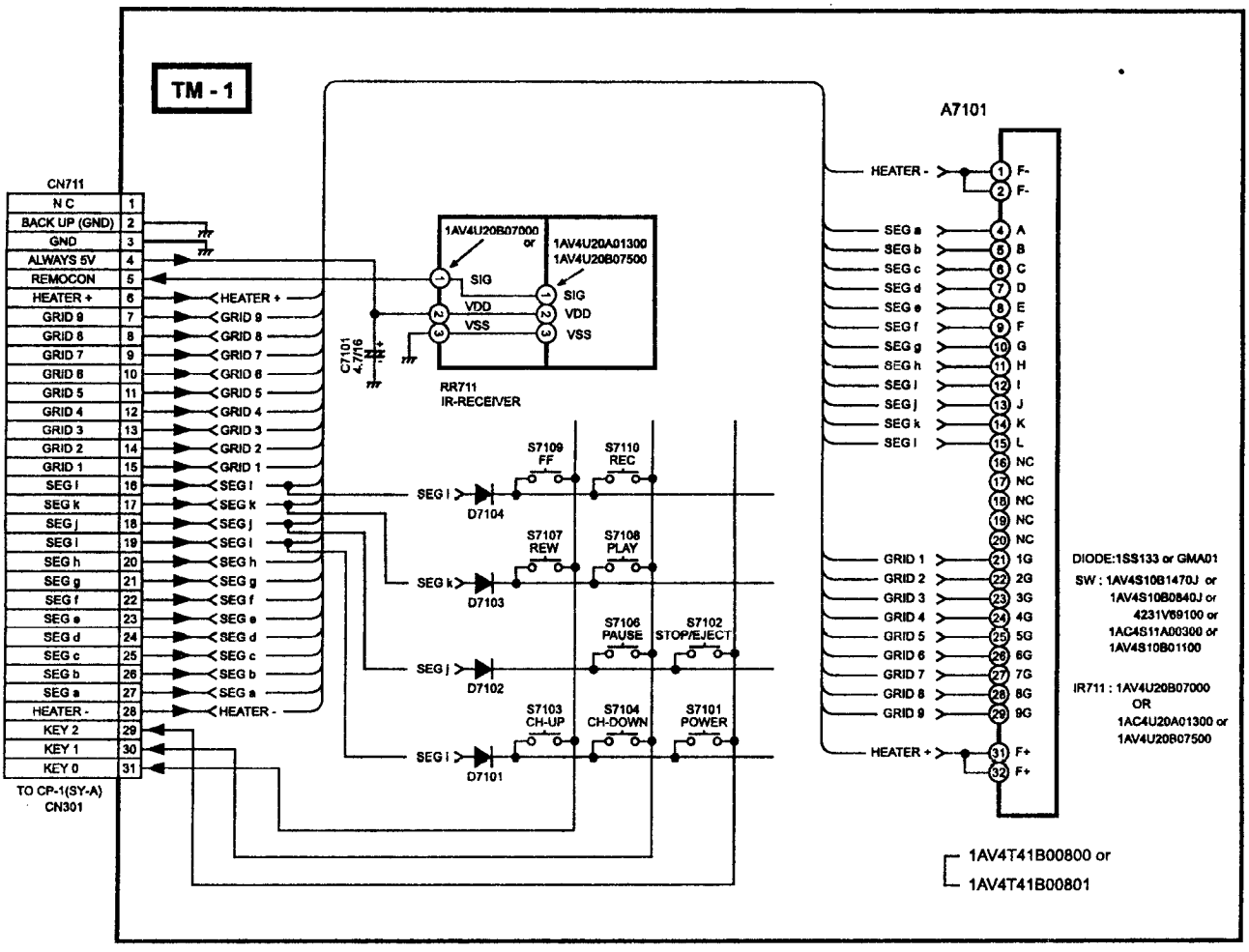
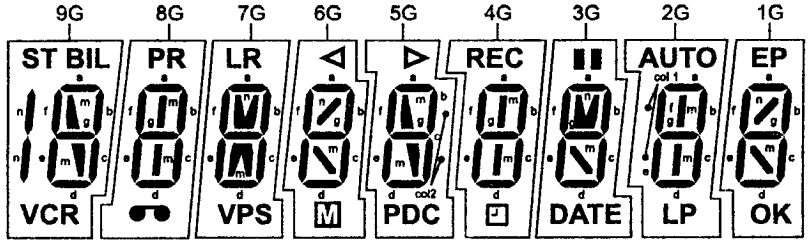


Рис. 4.15. Принципиальная схема платы оперативного управления и дисплея TM-1



а)

GRID / SEGMENT	9G	8G	7G	6G	5G	4G	3G	2G	1G
a	ST	PR	L	◁	▷	REC	▮▮	AUTO	EP
b	n	—	n	n	—	—	n	—	n
c	a	a	a	a	a	a	a	a	a
d	b	b	b	b	b	b	b	b	b
e	c	c	c	c	c	c	c	c	c
f	d	d	d	d	d	d	d	d	d
g	e	e	e	e	e	e	e	e	e
h	f	f	f	f	f	f	f	f	f
i	g	g	g	g	g	g	g	g	g
j	m	m	m	m	m	m	m	m	m
k	BIL	—	VPS	—	col2	—	—	col1	—
l	VCR	📼	R	M	PDS	⏎	DATE	LP	OK

б)