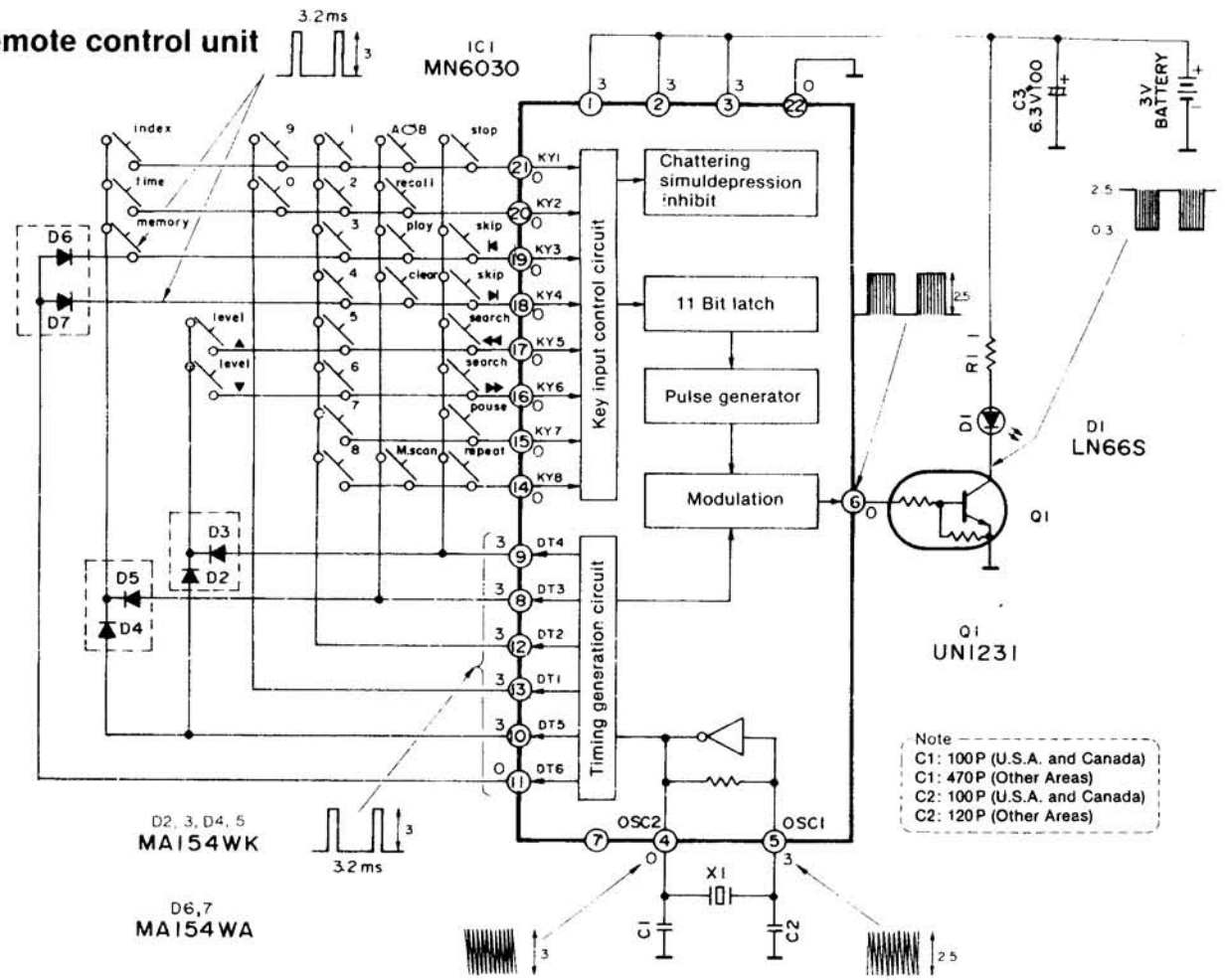
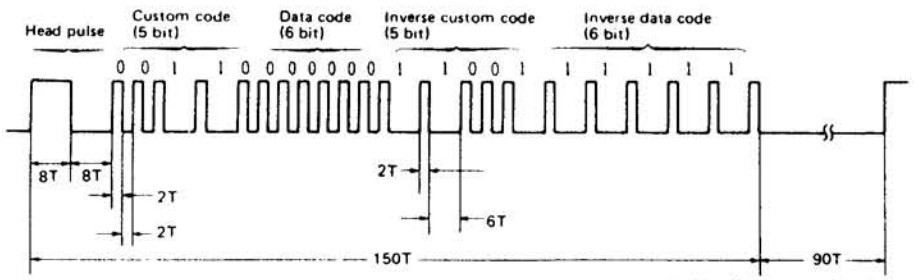
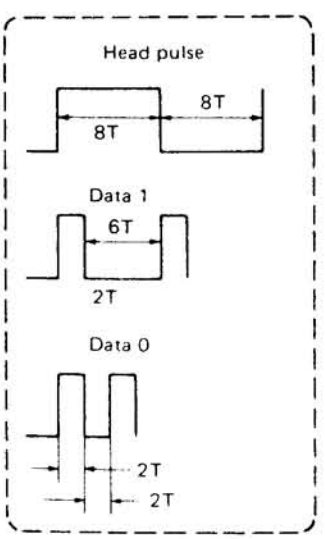
• Remote control unit



• Remote control data code

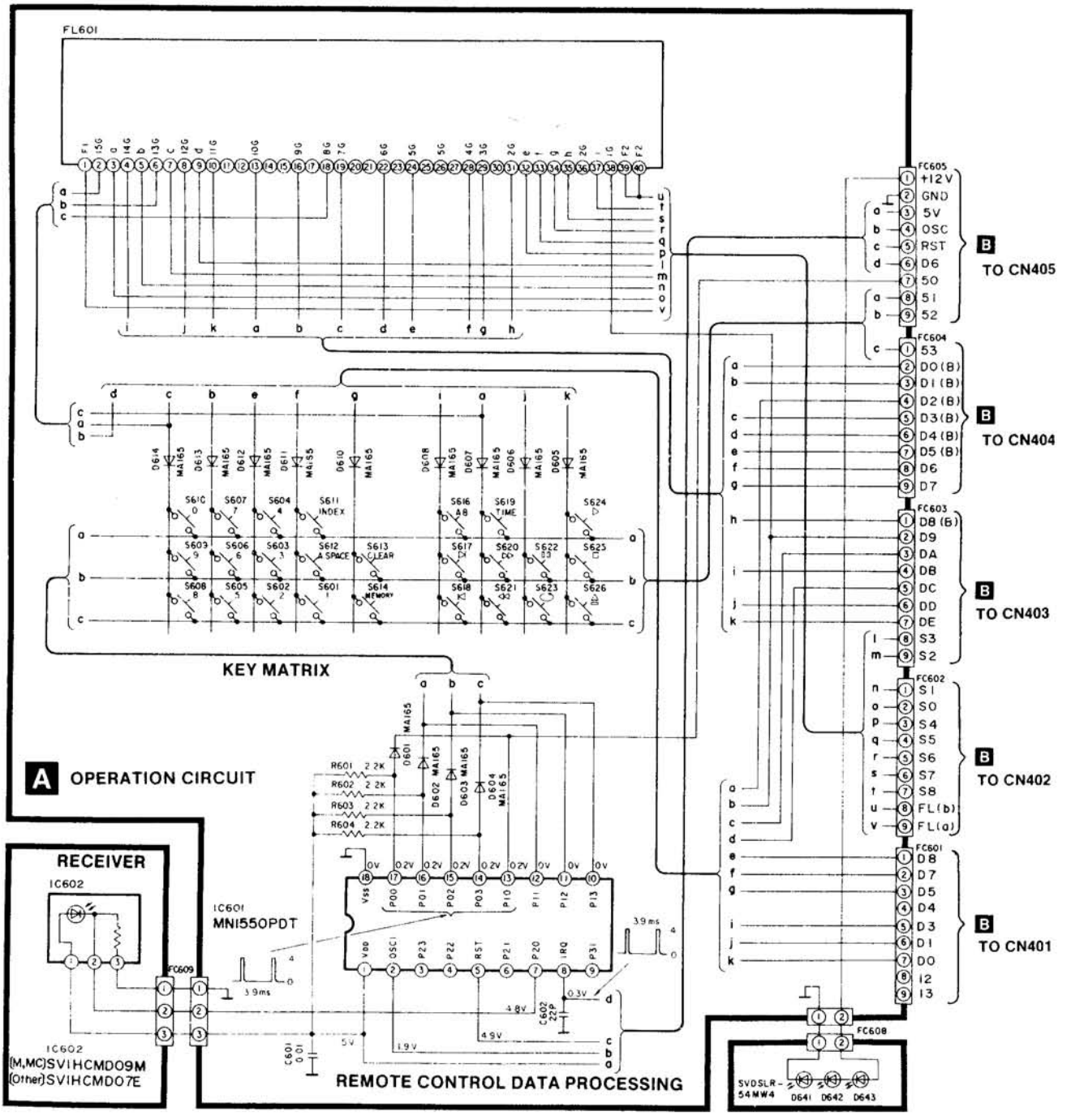


*1T = 0.420ms~0.424ms (U.S.A. and Canada)
1T = 0.454ms~0.460ms (Europe and Others)

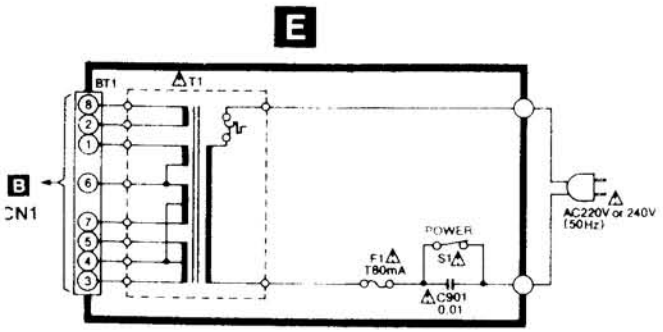


Button	Data Code
1	0 0 0 0 1 0
2	1 0 0 0 1 0
3	0 1 0 0 1 0
4	1 1 0 0 1 0
5	0 0 1 0 1 0
6	1 0 1 0 1 0
7	0 1 1 0 1 0
8	1 1 1 0 1 0
9	0 0 0 1 1 0
0	1 0 0 1 1 0
memory	0 1 0 1 0 1
index	0 0 0 1 0 1
time	1 0 0 1 0 1
stop	0 0 0 0 0 0

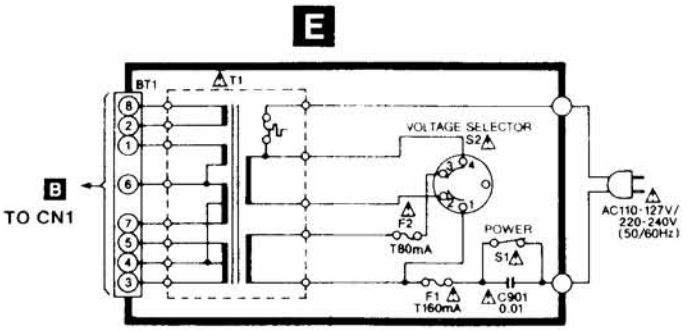
Button	Data Code
clear	1 1 0 1 0 0
A-B repeat	0 0 0 1 0 0
repeat	1 1 1 0 0 0
M scan	1 1 1 1 0 0
recall	1 0 0 1 0 0
◀◀ search	0 0 1 0 0 0
search ▶▶	1 0 1 0 0 0
⏮ skip	0 1 0 0 0 0
skip ⏭	1 1 0 0 0 0
⏸ pause	0 1 1 0 0 0
play ▶	0 1 0 1 0 0
▼ level	1 0 1 0 0 1
level ▲	0 0 1 0 0 1

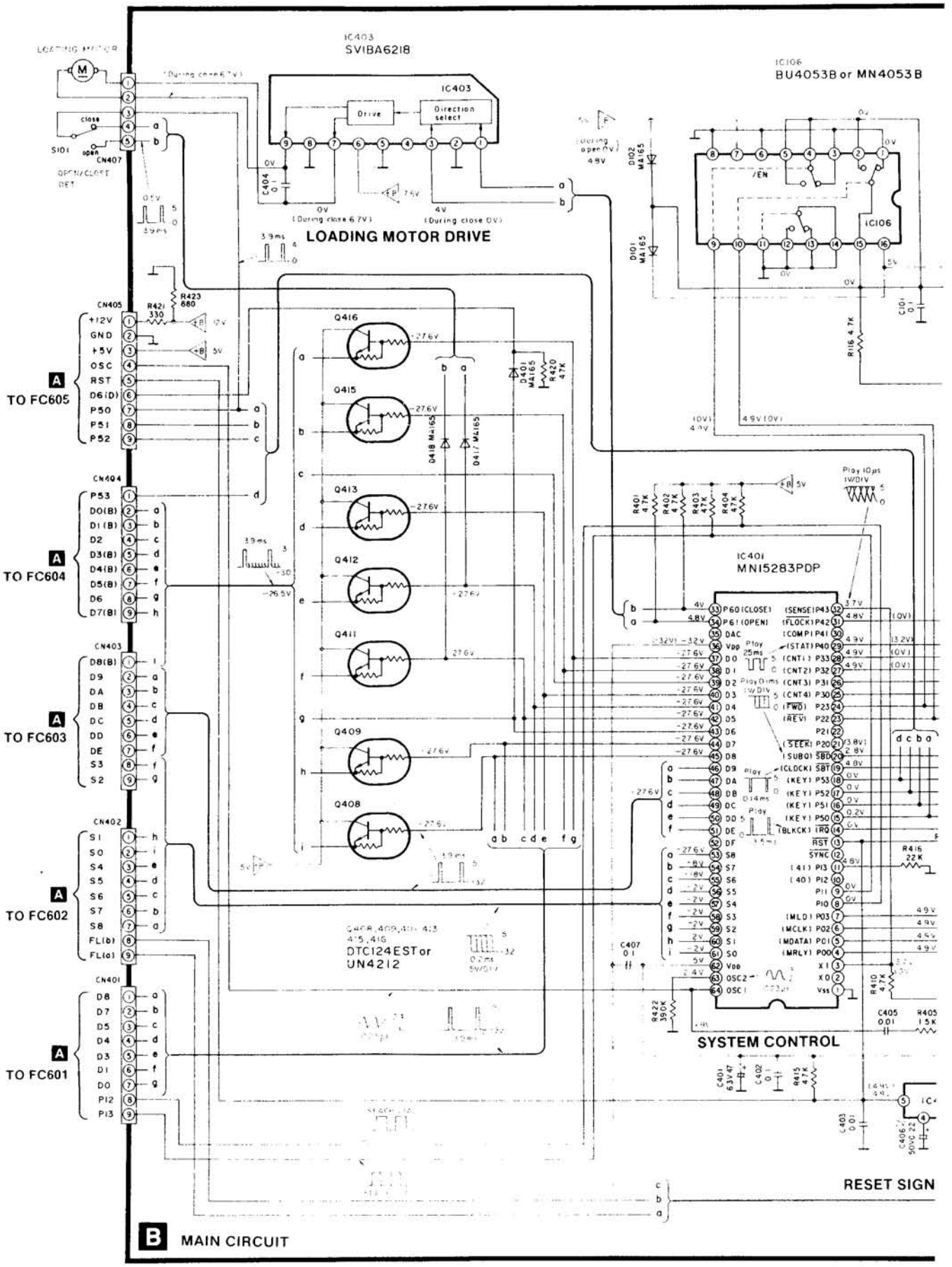


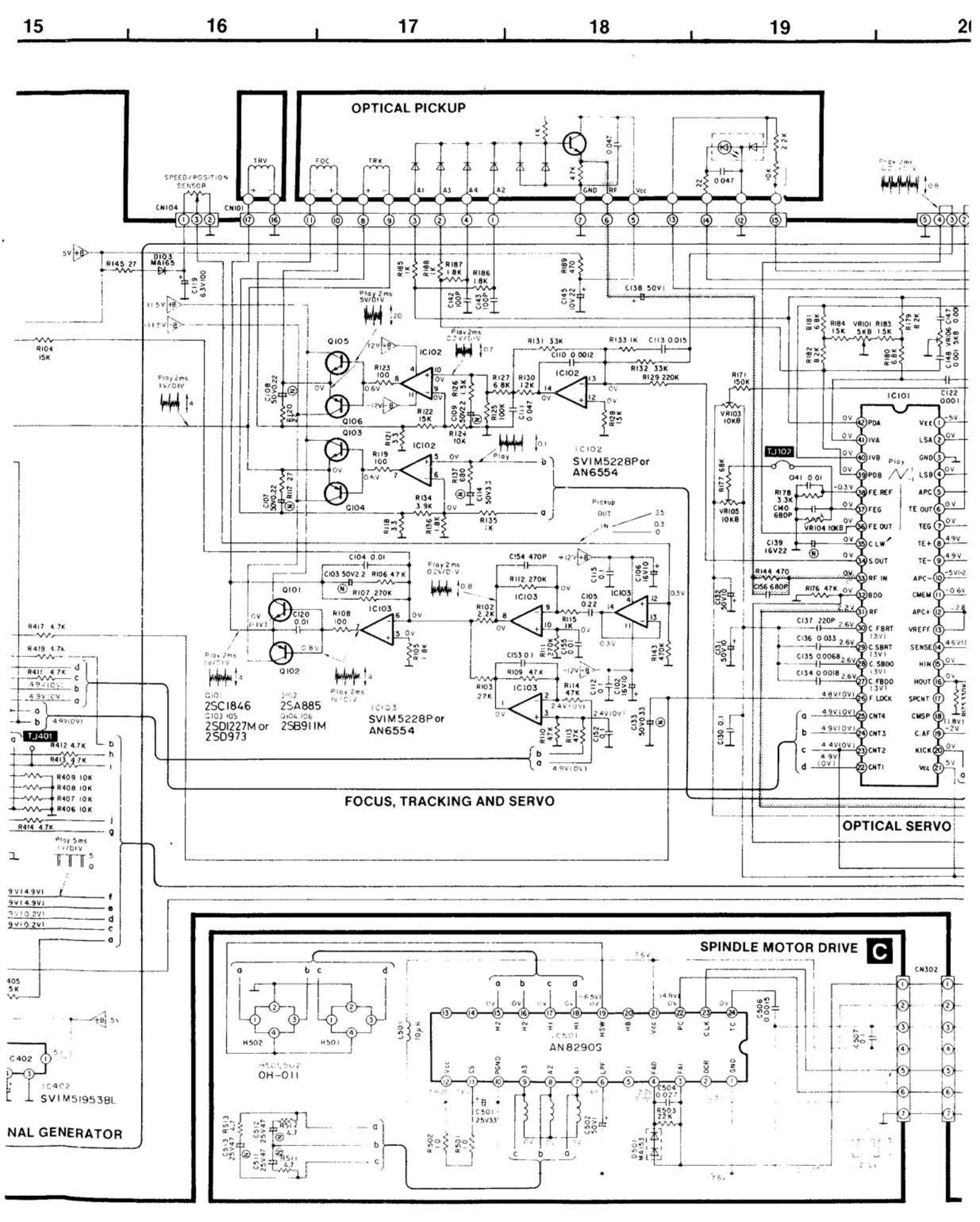
- **Power supply circuit (For Continental Europe and Australia)**

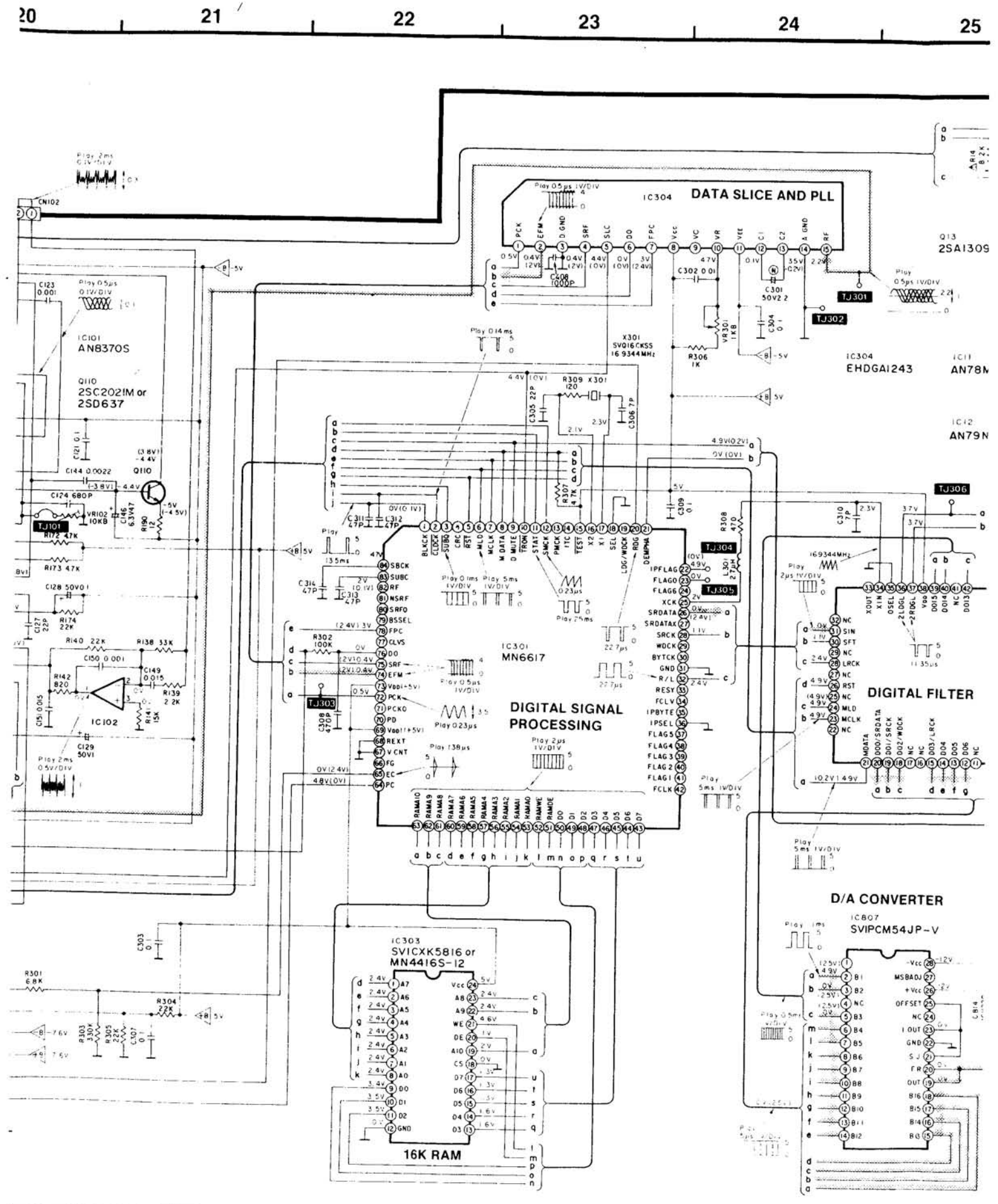


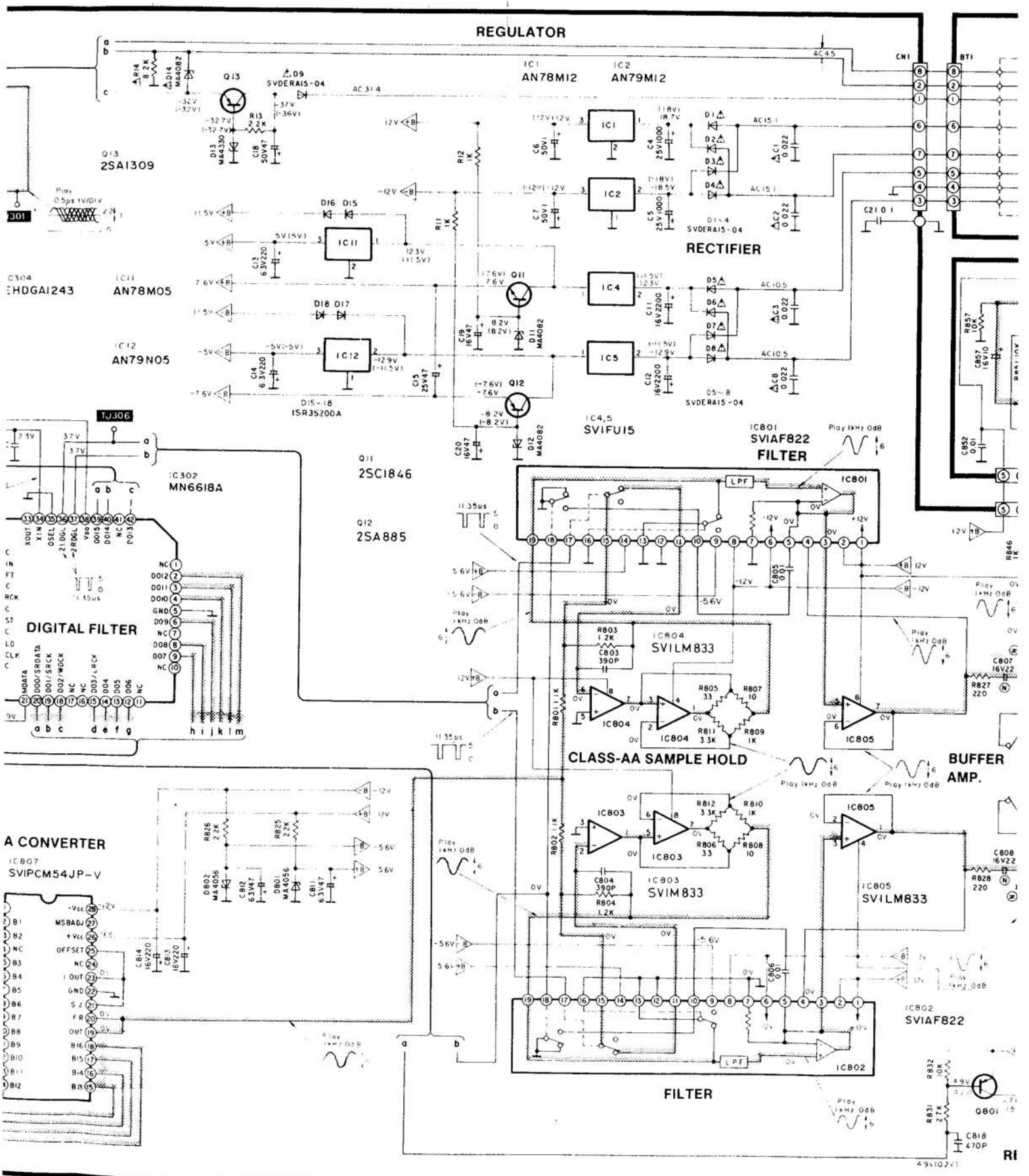
- **Power supply circuit (For others)**

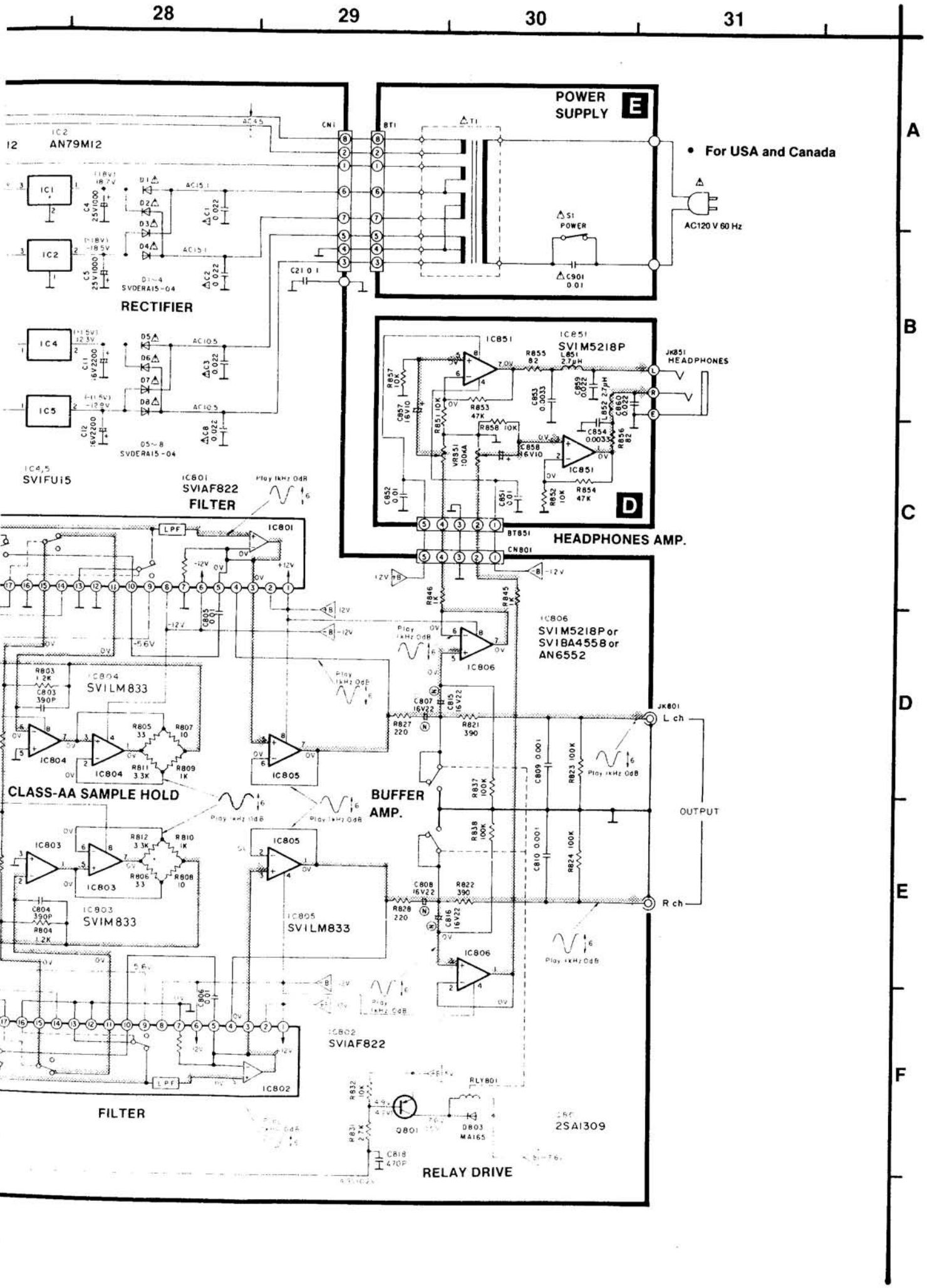



11
12
13
14
IC403
SVIBA6218
IC106
BU4053B or MN4053B
LOADING MOTOR DRIVE
SYSTEM CONTROL
RESET SIGN
IC401
MN15283PDP
DTC124EST or
UN4212
TO FC605
TO FC604
TO FC603
TO FC602
TO FC601
B MAIN CIRCUIT


15
16
17
18
19
OPTICAL PICKUP
SPEED/POSITION SENSOR
CN104
CN101
TRV
FOC
TRK
A1
A3
A4
A2
GND
RF
Vcc
IC102
SVIM5228P or AN6554
Q105
Q106
Q103
Q104
Q101
Q102
2SC1846
2SDI227M or 2SD973
2SA885
2SB911M
IC103
SVIM5228P or AN6554
FOCUS, TRACKING AND SERVO
IC101
TJ102
PDA
IVA
IVB
PDB
FE REF
FEG
FE OUT
C.LW
S.OUT
RF IN
BDO
RF
C FBRT
C.SBRT
C.SBDO
C.FBDO
F LOCK
CNT4
CNT3
CNT2
CNT1
VEE
LSA
GND
LSB
APC
TE OUT
TEG
TE+
TE-
APC-
CMEM
APC+
VREFF
SENSE
HIN
HOUT
SPCNT
CMSP
C.AF
KICK
Vcc
OPTICAL SERVO
T.J401
SPINDLE MOTOR DRIVE
C
IC501
AN8290S
OH-011
CN302
IC402
SVIM51953BL
NAL GENERATOR

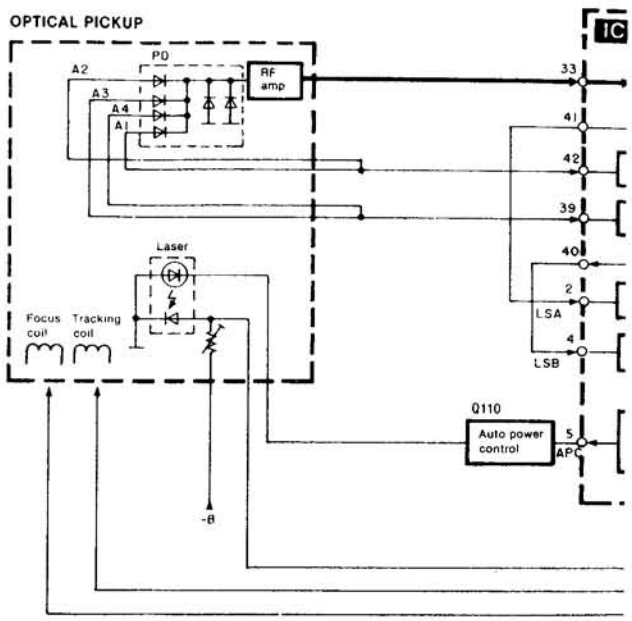

20
21
22
23
24
25
DATA SLICE AND PLL
IC304
DIGITAL SIGNAL PROCESSING
IC301
MN6617
DIGITAL FILTER
D/A CONVERTER
IC807
SVIPCM54JP-V
16K RAM
IC303
SVICXK5816 or
MN4416S-12
IC101
AN8370S
Q110
2SC2021M or
2SD637
IC102
X301
SVQ16CKSS
16.9344MHz
IC304
EHDGAI243
Q13
2SA1309
IC11
AN78M
IC12
AN79M
TJ301
TJ302
TJ303
TJ304
TJ305
TJ306
TJ101


REGULATOR
IC1
AN78MI2
IC2
AN79MI2
Q13
2SAI309
RECTIFIER
IC11
AN78M05
IC12
AN79N05
D15~18
ISR35200A
IC4,5
SVIFUI5
D1~4
SVDERAI5-04
D5~8
SVDERAI5-04
Q11
2SC1846
Q12
2SA885
IC302
MN6618A
DIGITAL FILTER
IC801
SVIAF822
FILTER
IC804
SVILM833
CLASS-AA SAMPLE HOLD
IC805
BUFFER AMP.
A CONVERTER
IC807
SVIPCM54JP-V
IC803
SVIM833
IC805
SVILM833
IC802
SVIAF822
FILTER
Q801
TJ306
LPF

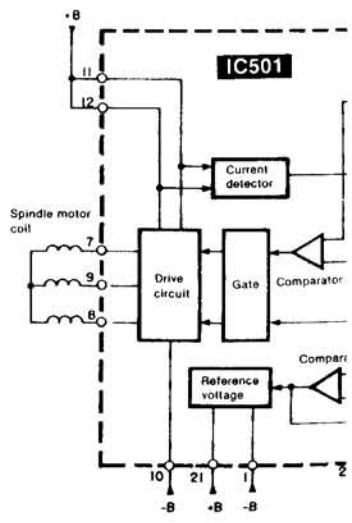

28
29
30
31
A
B
C
D
E
F
POWER SUPPLY
E
• For USA and Canada
AC120 V 60 Hz
POWER
RECTIFIER
IC2
AN79M12
SVDERA15-04
HEADPHONES AMP.
IC851
SVIM5218P
HEADPHONES
IC4,5
SVIFU15
IC801
SVIAF822
FILTER
IC806
SVIM5218P or
SVI8A4558 or
AN6552
IC804
SVILM833
CLASS-AA SAMPLE HOLD
BUFFER AMP.
L ch
R ch
OUTPUT
IC803
SVIM833
IC805
SVILM833
IC802
SVIAF822
FILTER
RELAY DRIVE
Q801
2SA1309
DB03
MA165

■ BLOCK DIAGRAM

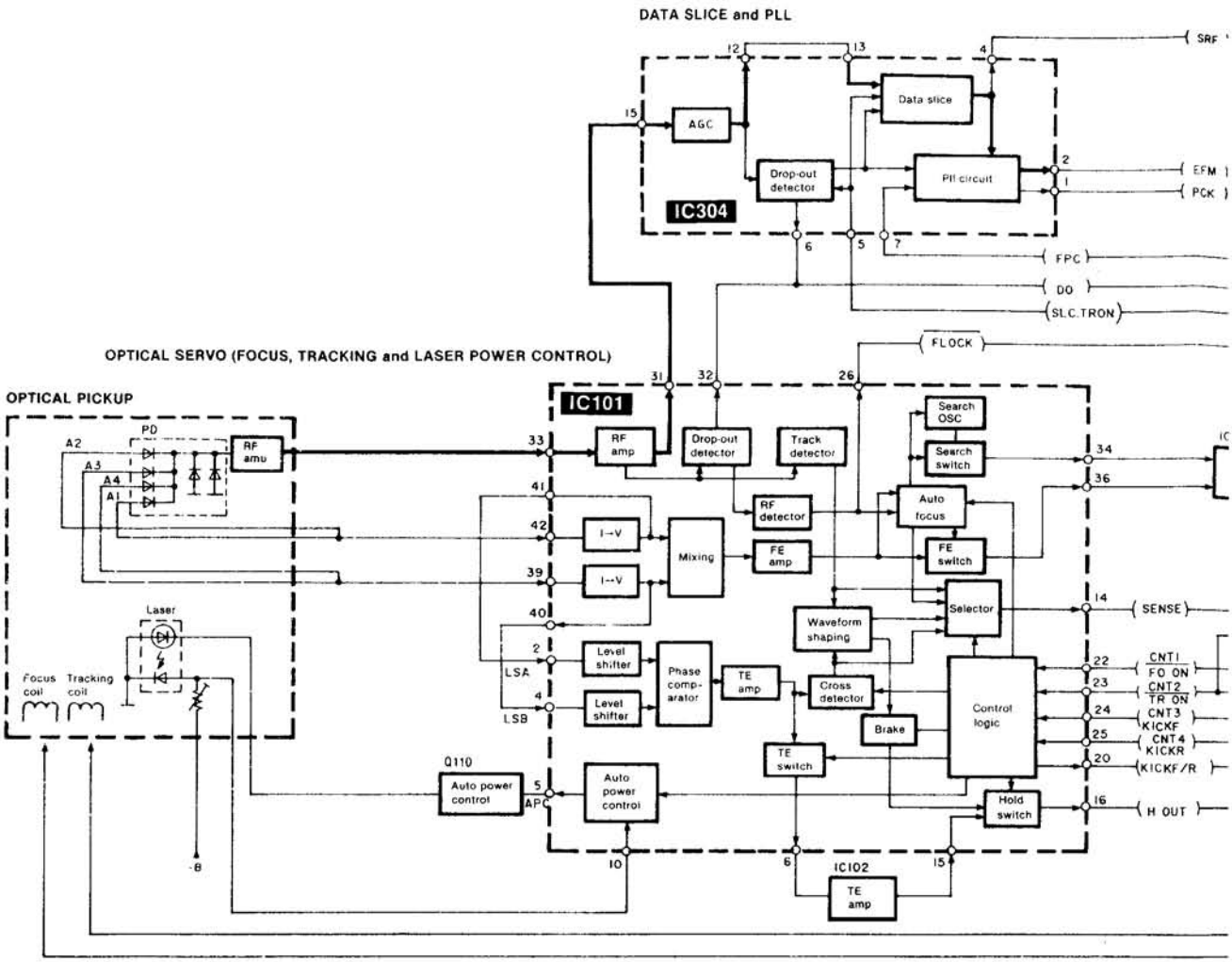
OPTICAL SERVO (FOCUS, TRACKING and LASER POWER CONTRO

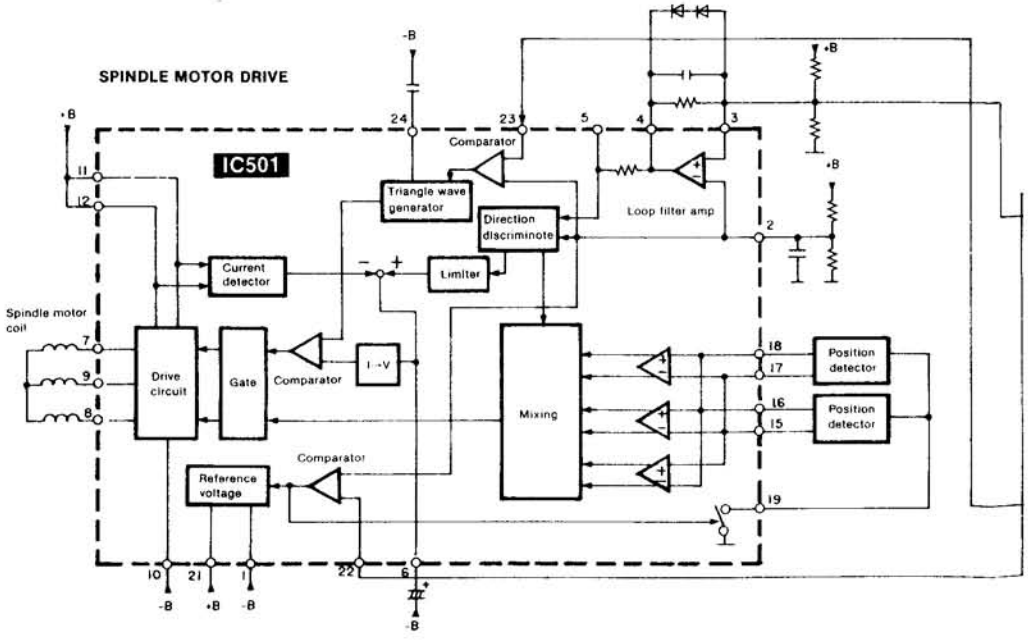


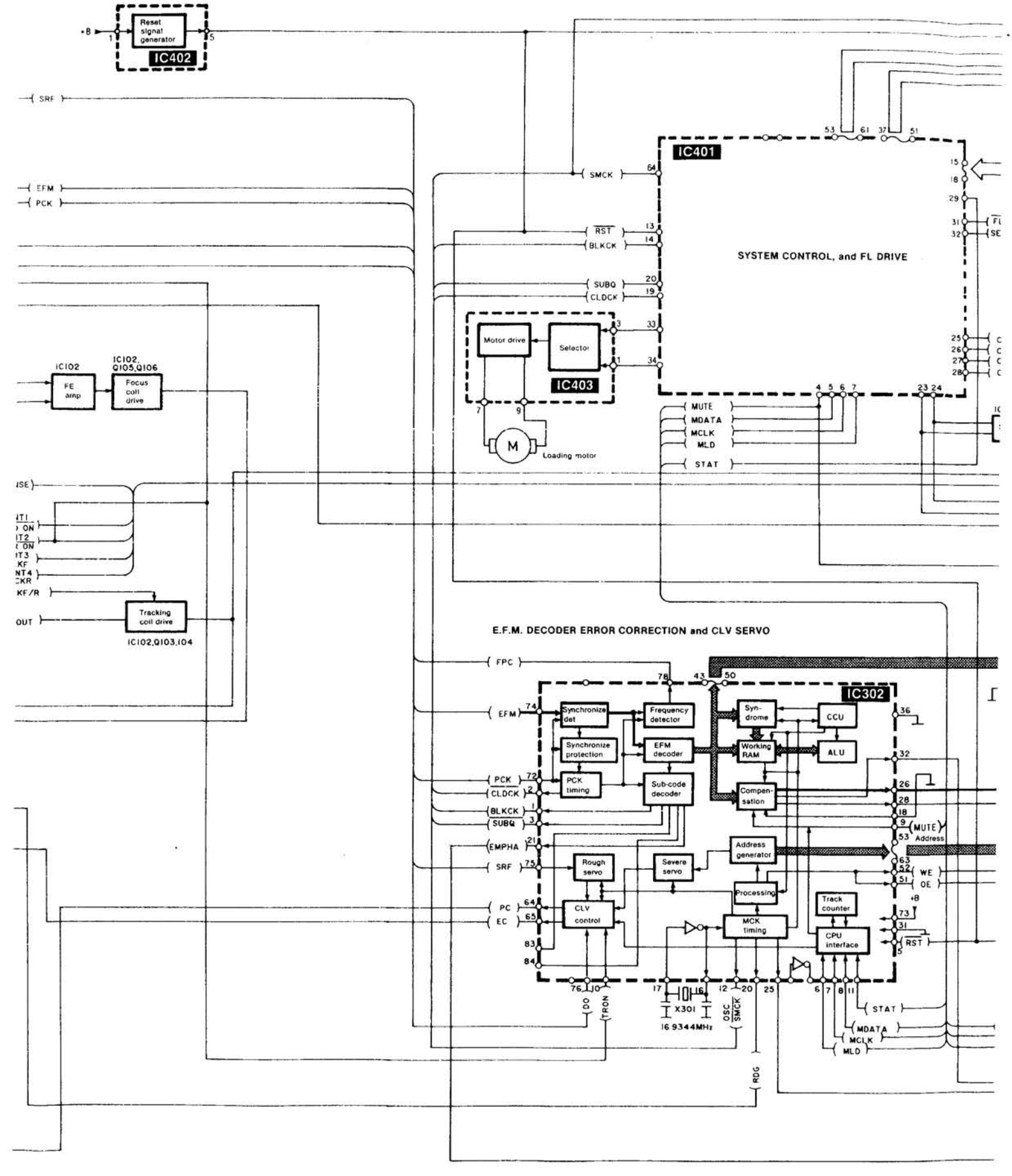
SPINDLE MOTOR DRIVE

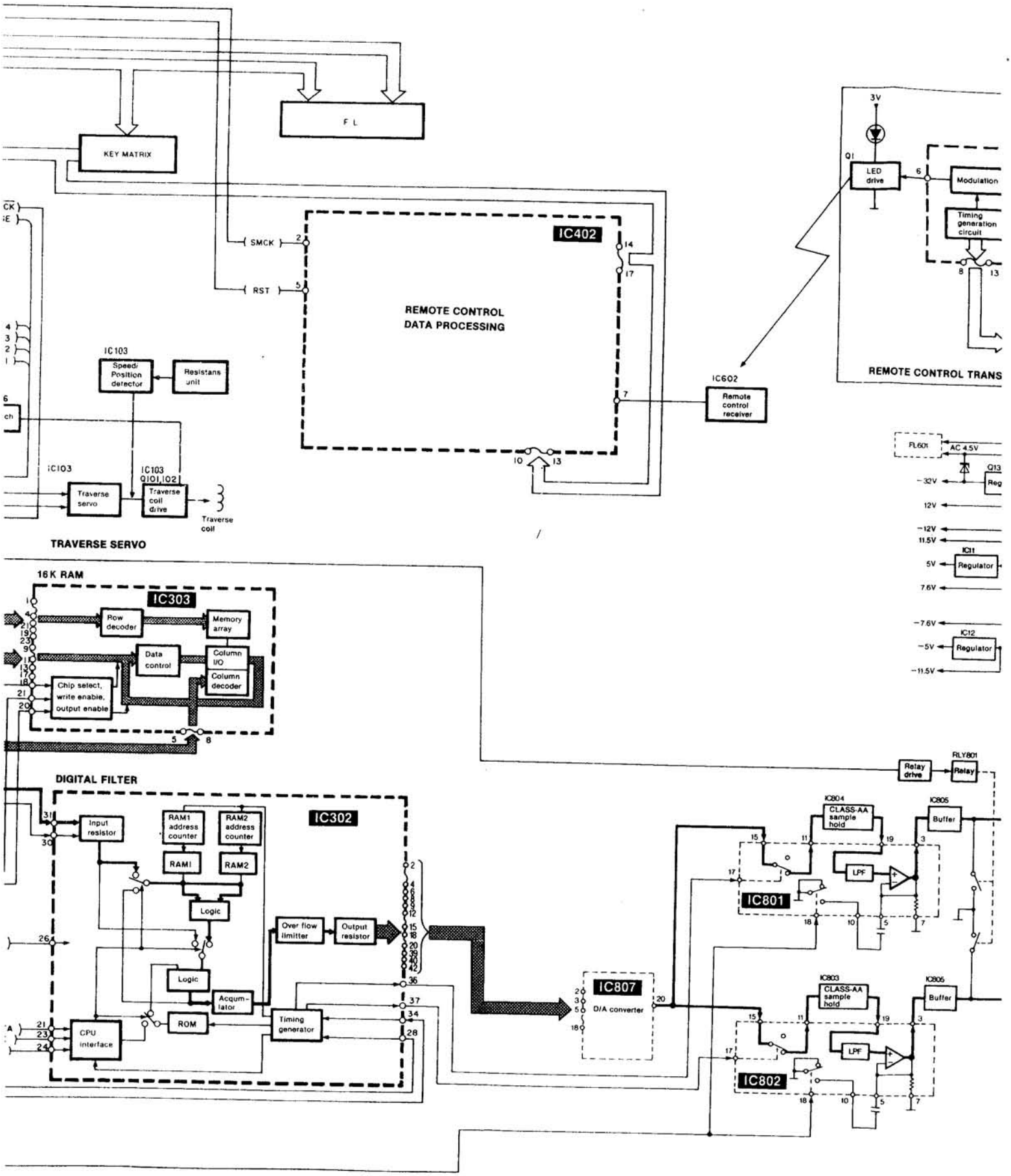


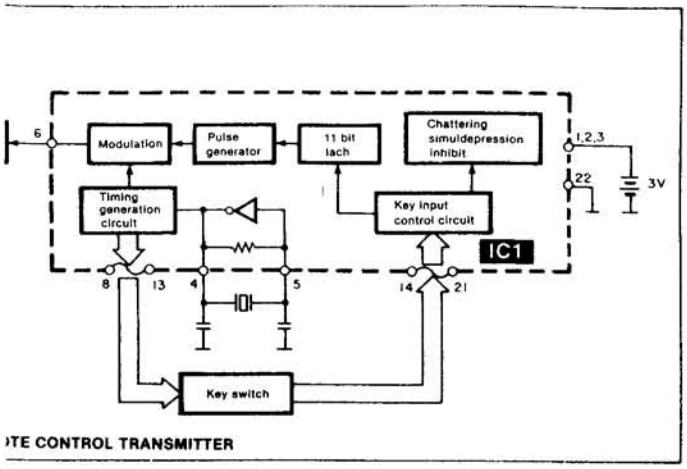
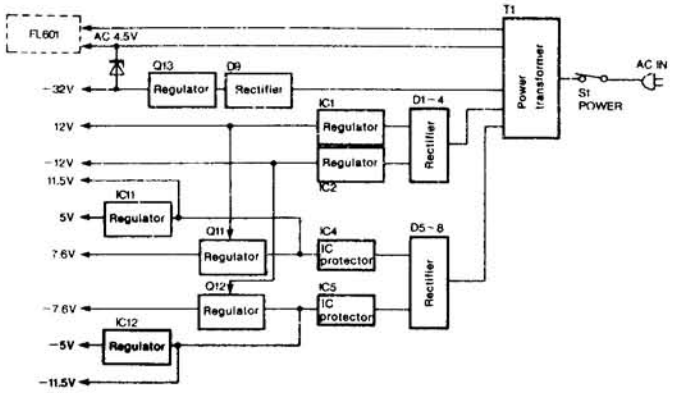
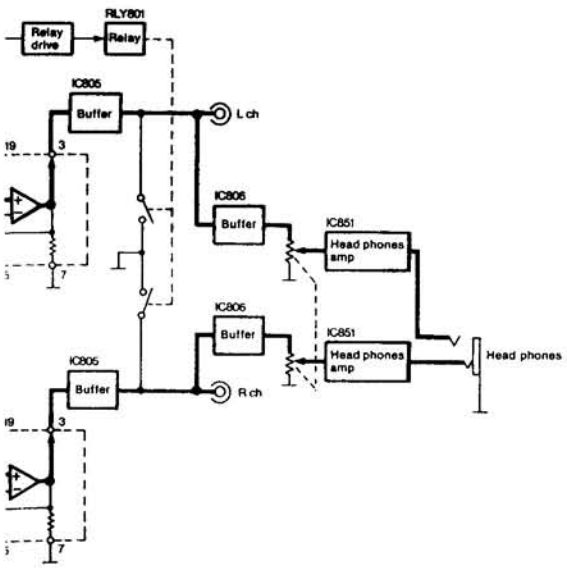
■ BLOCK DIAGRAM






Reset signal generator
IC402
SRF
EFM
PCK
IC401
SYSTEM CONTROL, and FL DRIVE
SMCK
RST
BLKCK
SUBQ
CLDCK
Motor drive
Selector
IC403
Loading motor
MUTE
MDATA
MCLK
MLD
STAT
IC102
FE amp
IC102, Q105,Q106
Focus coil drive
Tracking coil drive
IC102,Q103,104
E.F.M. DECODER ERROR CORRECTION and CLV SERVO
FPC
IC302
Synchronize det
Frequency detector
Synchronize protection
EFM decoder
PCK timing
Sub-code decoder
Syn-drome
CCU
Working RAM
ALU
Compen-sation
Address generator
Rough servo
Severe servo
Processing
CLV control
MCK timing
Track counter
CPU interface
EMPHA
PC
EC
WE
OE
Address
X301
16.9344MHz
OSC
SMCK
DO
TRON
RDG


KEY MATRIX
F L
IC402
REMOTE CONTROL
DATA PROCESSING
SMCK
RST
IC602
Remote control receiver
3V
Q1
LED drive
Modulation
Timing generation circuit
REMOTE CONTROL TRANS
IC103
Speed/ Position detector
Resistans unit
IC103
Traverse servo
IC103 Q101,102
Traverse coil drive
Traverse coil
TRAVERSE SERVO
FL601
AC 4.5V
Q13
-32V
12V
-12V
11.5V
IC11
5V
Regulator
7.6V
-7.6V
IC12
-5V
Regulator
-11.5V
16K RAM
IC303
Row decoder
Memory array
Data control
Column I/O
Column decoder
Chip select, write enable, output enable
DIGITAL FILTER
IC302
Input resistor
RAM1 address counter
RAM2 address counter
RAM1
RAM2
Logic
Logic
Over flow limitter
Output resistor
Acqum-lator
ROM
Timing generator
CPU interface
IC807
D/A converter
Relay drive
RLY801
Relay
IC804
CLASS-AA sample hold
IC805
Buffer
IC801
LPF
IC803
CLASS-AA sample hold
IC806
Buffer
IC802
LPF



TE CONTROL TRANSMITTER