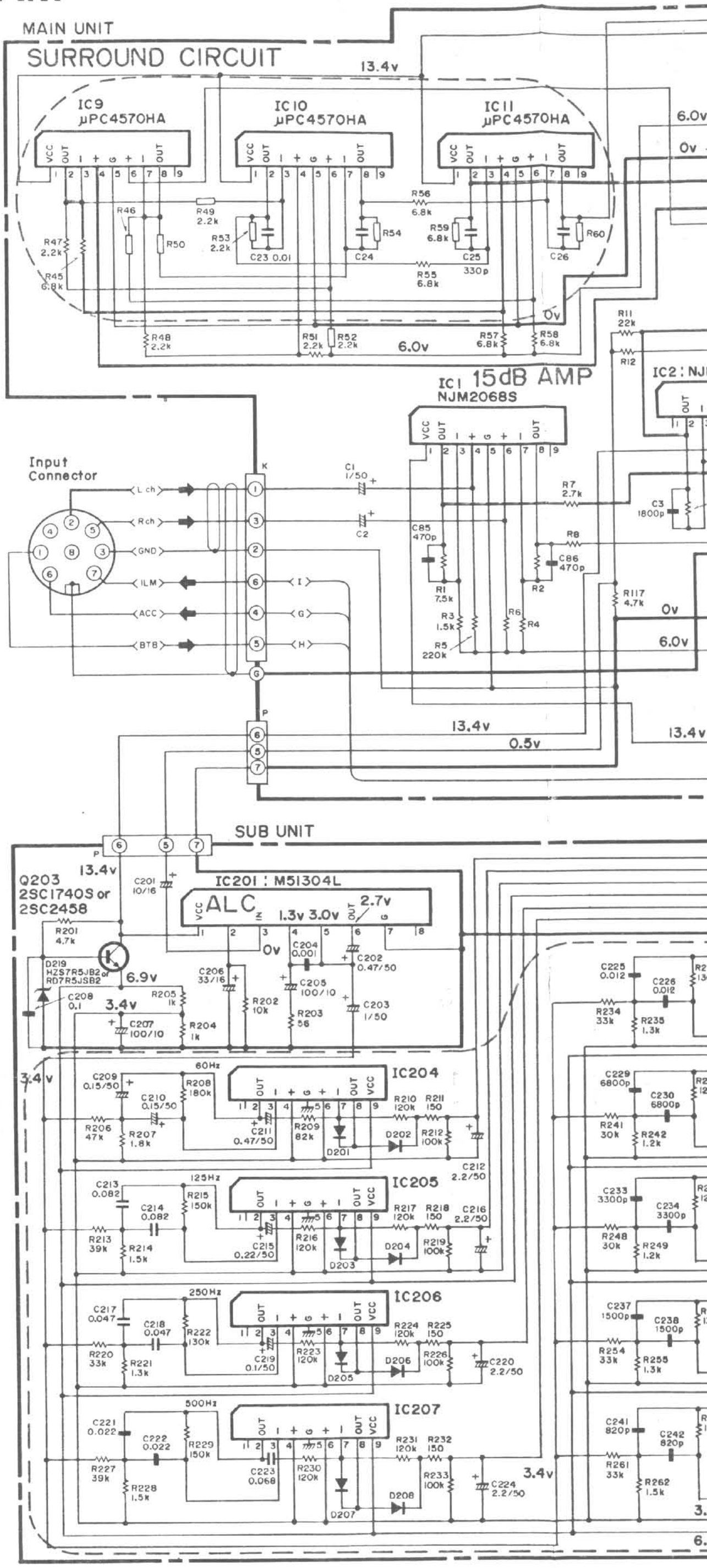
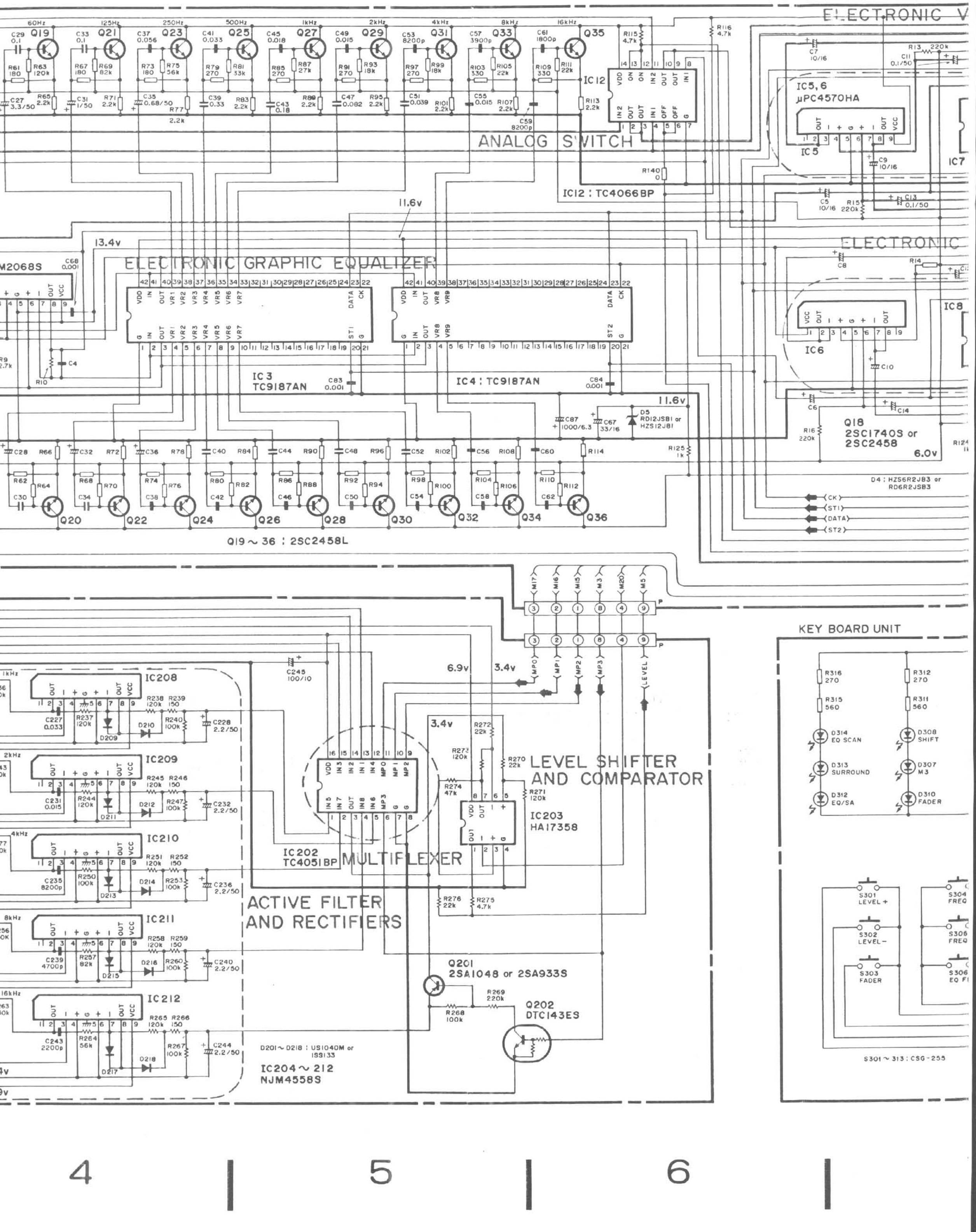
5. SCHEMATIC CIRCUIT DIAGRAM

The view of the connector is one seen from the mating connector.



4 | 5 | 6 |


ELECTRONIC V
ELECTRONIC GRAPHIC EQUALIZER
ELECTRONIC
ANALOG SWITCH
IC12 : TC4066BP
IC5,6
µPC4570HA
IC5
IC6
IC7
IC8
IC3
TC9187AN
IC4 : TC9187AN
11.6v
13.4v
6.9v
3.4v
6.0v
Q18
2SC1740S or
2SC2458
Q19 ~ 36 : 2SC2458L
D4 : HZS6R2J83 or
RD6R2JSB3
D5
RD12JSB1 or
HZS12J81
IC202
TC4051BP MULTIPLEXER
IC203
HA17358
LEVEL SHIFTER
AND COMPARATOR
ACTIVE FILTER
AND RECTIFIERS
IC208
IC209
IC210
IC211
IC212
Q201
2SA1048 or 2SA933S
Q202
DTC143ES
D201 ~ D218 : US1040M or
1SS133
IC204 ~ 212
NJM4558S
KEY BOARD UNIT
D314
EQ SCAN
D313
SURROUND
D312
EQ/SA
D308
SHIFT
D307
M3
D310
FADER
S301
LEVEL +
S302
LEVEL -
S303
FADER
S304
FREQ
S301 ~ 313 : CSG-255
CK
STI
DATA
ST2

4 | 5 | 6 |

ELECTRONIC VOLUME

IC7, 8: TC9176P ISOLATOR

Q5, 6 : 2SC3113
Q9, 10 : 2SA1015

C5,6 PC4570HA

IC7

ELECTRONIC VOLUME

IC8

IC6

Q18 2SC1740S or 2SC2458

D4 : HZS6R2JB3 or RD6R2JSB3

Q7, 8 : 2SC3113
Q11, 12 : 2SA1015

L3 DC-DC CONVERTER CTX1020

RESET IC

IC13 M51954AL

Q37 2SC1740S or 2SC2458

Q38 2SC2458L

SURROUND ON/OFF

Q39 2SC2458L

Q14 2SA934

Q13 DTC143ES REGULATOR

DTC14

FL DISPLAY:CAW1031

FADER PWFL REAR.E

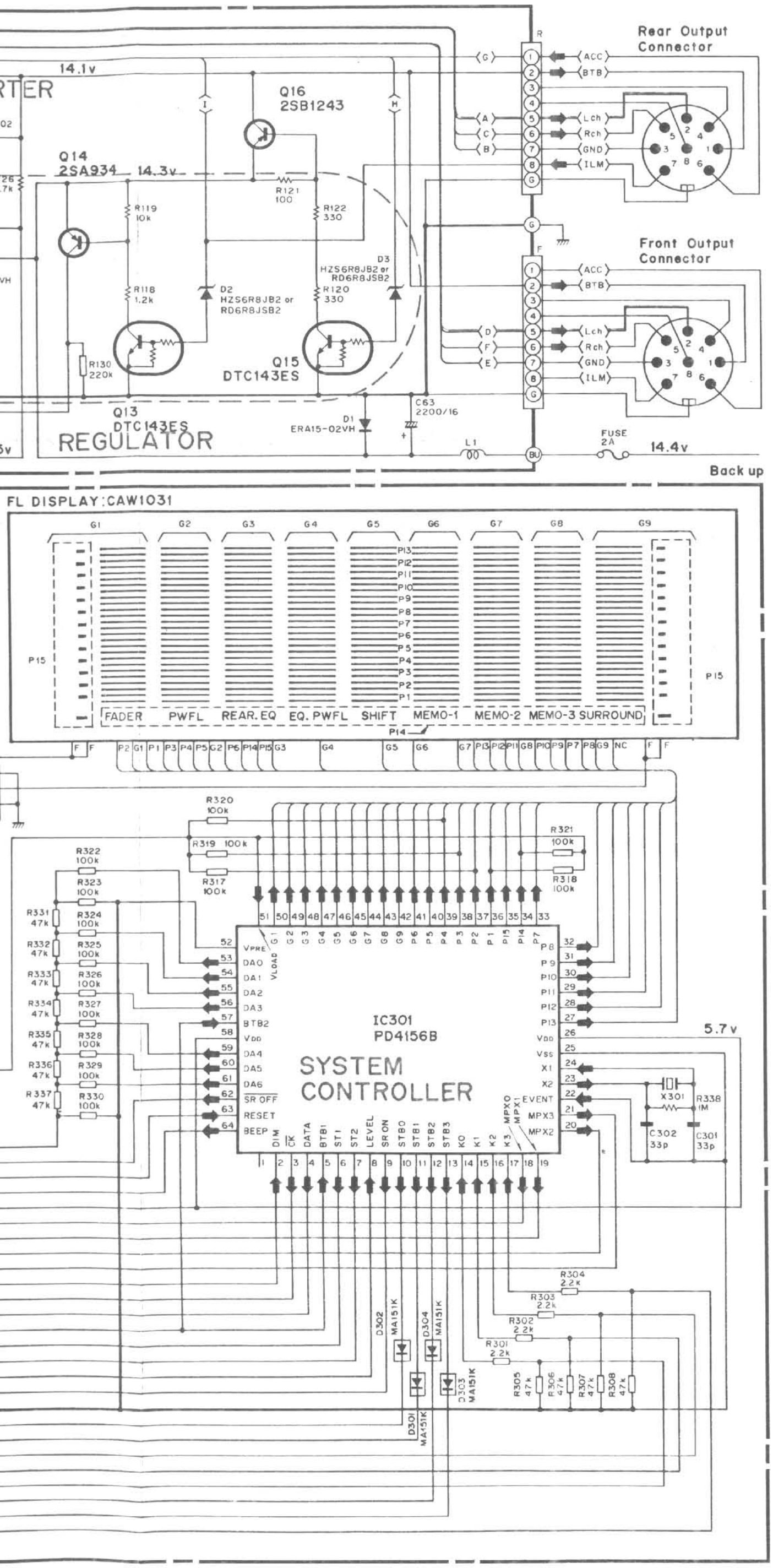
KEY BOARD UNIT

D305~310, 312~314 : LN31GC6V

D311 SLR-320PG3KL LEVEL/FAD FREQ

S301 LEVEL +
S302 LEVEL −
S303 FADER
S304 FREQ +
S305 FREQ −
S306 EQ FLAT
S307 SHIFT
S308 M1
S309 M2
S310 M3
S311 SURROUND
S312 EQ SCAN
S313 EQ/SA

S301 ~ 313 : CSG-255

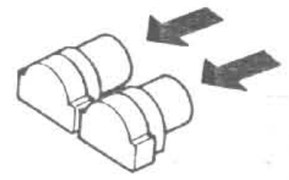


NOTE:

Indicates a chip resistor

Indicates a chip capacitor

Indicates a chip diode

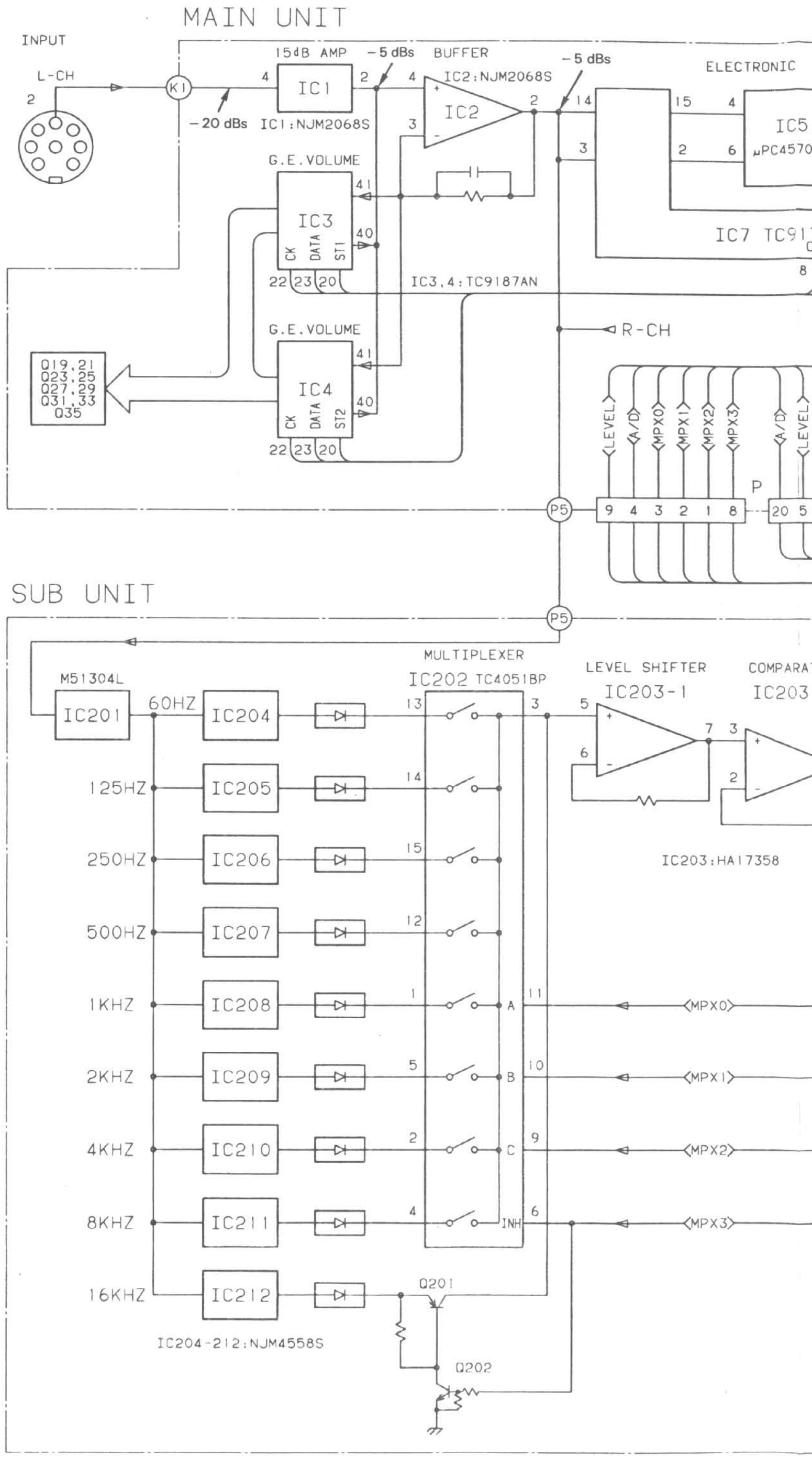


The view of the connector is one seen from the mating connector.

Graphic Equalizer Assy
Consists of • Main Unit • Sub Unit

Fig. 6

4. BLOCK DIAGRAM



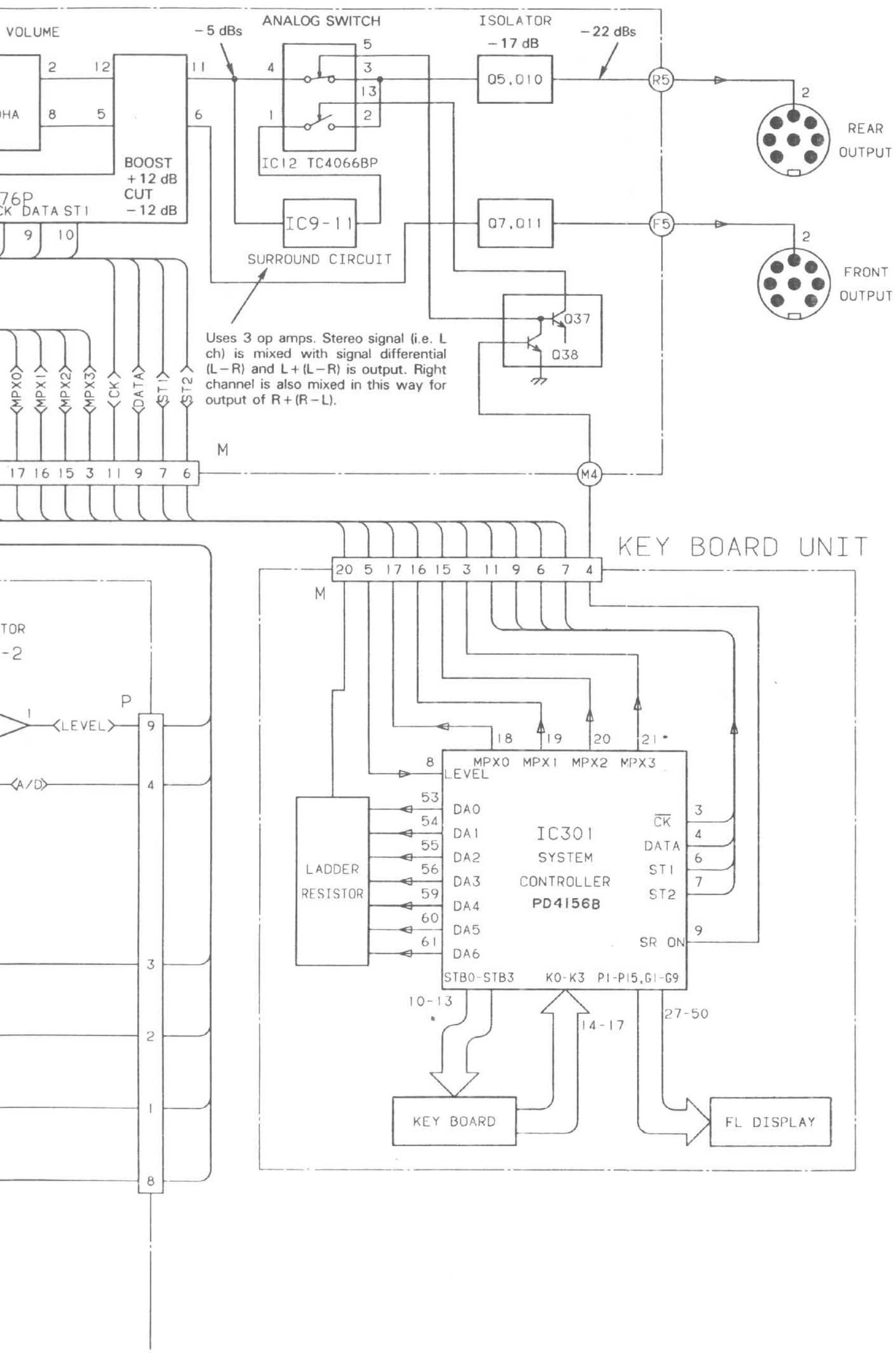

VOLUME
ANALOG SWITCH
ISOLATOR
−17 dB
−5 dBs
−22 dBs
Q5,010
R5
REAR
OUTPUT
BOOST
+12 dB
CUT
−12 dB
IC12 TC4066BP
IC9-11
SURROUND CIRCUIT
Q7,011
F5
FRONT
OUTPUT
Q37
Q38
Uses 3 op amps. Stereo signal (i.e. L ch) is mixed with signal differential (L−R) and L+(L−R) is output. Right channel is also mixed in this way for output of R+(R−L).
MPX0
MPX1
MPX2
MPX3
CK
DATA
ST1
ST2
M
M4
KEY BOARD UNIT
LEVEL
A/D
P
LADDER
RESISTOR
IC301
SYSTEM
CONTROLLER
PD4156B
DA0
DA1
DA2
DA3
DA4
DA5
DA6
SR ON
STB0-STB3
K0-K3
P1-P15,G1-G9
KEY BOARD
FL DISPLAY

Fig. 5