+5V

C1 22P
R4 56K
R6 3K
Q2
R1 1K
R3 30K
R7 100
Q1
R9 51
R2 470
R5 10K
VR1 1K
C2 220P
R8 330

+5V

C3 22P
R13 56K
R15 3K
Q4
R10 1K
R12 30K
R16 100
Q3
R16 51
R11 470
R14 10K
VR2 1K
C4 220P
R17 330

+5V

C5 22P
R22 56K
R24 3K
Q6
R19 1K
R21 30K
R25 100
Q5
R27 51
R20 470
R23 10K
VR3 1K
C6 220P
R26 330

P1
VIDEO - IN

$\overline{G}$	1
$\overline{R}$	2
$\overline{B}$	3
GND	4
GND	5
SYNC	6

6P (171825-6)

P2
VIDEO - OUT

1	G
2	R
3	B
4	GND
5	GND
6	SYNC

6P (350431-1)

(OPTION)
U1
LS04

CL1

+5V   +12V

P3
POWER - IN

1	5V
2	12V
3	V . GND
4	S . GND

4P (350430 1)

C7 220μ 25V
C8 220μ 25V

NOTE : Q1~Q6 Transistor 2SC828

SL1   R28 120K
CL2   R29 56K
SL2   R30 30K

P4
SOUND - IN

1	SOUND
2	GND
3	GND

3P (171825 - 3)

C9 4.7μ 25V

+12V

C10 4.7μ 25V
VR4 1K

U2
MB3730

C11 104(P)
C12 22μ 25V
C13 220μ 25V
C14 104(P)
C15 104(P)
R31 1
R32 1

(OPTION)
C16

P5
SOUND - OUT

1	SP.
2	SP.
3	N/C

3P (350429 1)

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HOW TO CARE AV-01 BOARD

There are Video Signal Converter (Negative — Positive) and Audio Power Amp Circuit. Even though there is only one of them, board works correctly.

1. VIDEO SIGNAL CONVERTER

1-1 Position of Connector Pin

P1 VIDEO IN			P2 VIDEO OUT	
PIN No.	SIGNAL		PIN No.	SIGNAL
1	GREEN		1	GREEN
2	RED		2	RED
3	BLUE		3	BLUE
4	GND		4	GND
5	GND		5	GND
6	SYNC		6	SYNC

1-2 Adjustment of VIDEO SINAL CONVERTER

Each R,G,B of Video Sigal Level is adjustable by Adjustable V. R. Please adjust according to level of your Monitor T.V.

1-3 SYNC SIGNAL CONVERT

As SYNC Signal is usualy Negative, only simple circuit is set up. If Positive SYNC Signal is necessary, insert IC SN74LS04 and cut CL1.

1-4 CABLE

I/O Cable should be no longer than 1m.

2. AUDIO POWER AMP CIRCUIT

2-1 Position of Connector Pin

P4 SOUND IN			P5 SOUND OUT	
PIN No.	SIGNAL		PIN No.	SIGNAL
1	SOUND SIG		1	SPEAKER
2			2	SPEAKER
3			3	＊ ＊ ＊

2-2 Setting up of Input Signal

According to Input Signal Level of Audio Power Amp, change the circuit and please use with proper Input Level. If it is used over proper Input Level, sound would be saturated or Volume VR 4 would be impossible to adjust sound.

INPUT LEVEL	HOW TO CHANGE CIRCUIT
2V	Short SL1 with solder, and cut CL2
1V	Needless to change circuit
0.5V	Short SL2 with solder, and cut CL2

2-3 CONFORM SPEAKER

Impedance	4	8
MAX. Input	12W	6W

Audio Power Amp Max. Output 12W (4)

3. CAPACITY OF POWER SUPPLY

3-1 INPUT CONNECTOR

P3 POWER IN

PIN No.	SIGNAL	
1	+5V	
2	+12V	
3	GND # 1	*1 GND for VIDEO SIGNAL CONVERTER
4	GND # 2	*2 GND for AUDIO POWER AMP CIRCUIT

3-2 CAPACITY OF POWER SUPPLY

+5V	0.2A	For Video Signal Converter
+12V	1.5A	For Audio Power Amp Circuit

3-3 CONNECTION OF GND

GND of VIDEO SIGNAL CONVERTER and Audio Power Amp Circuit is independent from AV-01 Board completely. Please connect each GND correctly.

4. REFFERING CHART