

Sega Model 1 Pinout typed by Corrado Tomaselli c.tomaselli78@gmail.com on 31.05.2020
 Tested Virtua Fighter and Virtua Racing

CN3 – OMRON 32pin connector on CPU BOARD

TOP

B16	B15	B14	B13	B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1
5V	5V	5V*	GND*	IO CN4 5	IO CN4 6	IO CN4 2	IO CN4 1	SND CN2 5	SND CN2 6	SND CN2 2	SND CN 1			5V	5V

BOTTOM

A16	A15	A14	A13	A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1
5V	5V	GND	GND	GND	GND					GND	GND	GND	GND	5V	5V

* needs to be connected also to PS, otherwise communication with the other boards will not work

CN3 JST 6P connector for RGB on MAIN PCB VIDEO BOARD

1	Red
2	Green
3	Blue
4	Sync
5	GND
6	GND

CN4 JST 6P connector for comm on I/O BOARD

1	from CN3 CPU BOARD 32 pin connector pin B9
2	from CN3 CPU BOARD 32 pin connector pin B10
3	GND
4	n.c
5	from CN3 CPU BOARD 32 pin connector pin B12
6	from CN3 CPU BOARD 32 pin connector pin B11

CN3 – JSP 10P connector for PWR on I/O BOARD

1	5V
2	5V
3	5V
4	5V*
5	
6	
7	GND*
8	GND
9	GND
9	GND

* needs to be connected also to PS, otherwise communication with the other boards will not work

VIRTUA FIGHTER

CN1 AMP 50P connector for digital inputs on I/O BOARD

A1	COIN	B1	GND
A2		B2	GND
A3	TEST	B3	GND
A4	SERVICE	B4	
A5	1P START	B5	GND
A6	2P START	B6	
A7		B7	
A8		B8	
A9	1P PUNCH	B9	
A10	1P KICK	B10	GND
A11	1P DEFENSE	B11	GND
A12		B12	
A13	1P DOWN	B13	GND
A14	1P UP	B14	GND
A15	1P RIGHT	B15	GND
A16	1P LEFT	B16	GND
A17	COIN METER	B17	5V
A18		B18	5V
A19		B19	5V
A20		B20	5V
A21		B21	5V
A22		B22	5V
A23		B23	5V
A24		B24	5V
A25		B25	5V

VIRTUA RACING

CN1 AMP 50P connector for digital inputs on I/O BOARD

A1	COIN	B1	GND
A2		B2	GND
A3	TEST	B3	GND
A4	SERVICE	B4	
A5	START	B5	GND
A6	V.R 1 RED	B6	
A7	V.R 2 BLUE	B7	
A8	V.R 3 YELLOW	B8	
A9	V.R 4 GREEN	B9	
A10		B10	GND
A11		B11	GND
A12		B12	
A13		B13	GND
A14	SHIFT DOWN	B14	GND
A15	SHIFT UP	B15	GND
A16		B16	GND
A17	COIN METER	B17	5V
A18		B18	5V
A19	START LAMP	B19	5V
A20	V.R 1 LAMP	B20	5V
A21	V.R 2 LAMP	B21	5V
A22	V.R 3 LAMP	B22	5V
A23	V.R 4 LAMP	B23	5V
A24	NUMB LAMP	B24	5V
A25		B25	5V

VIRTUA RACING

CN2 AMP 26P connector for analogue inputs on I/O BOARD

A1	5V	B1	5V
A2	STEERING	B2	ACCELERATOR
A3	GND	B3	GND
A4	5V	B4	5V
A5	BRAKE	B5	
A6	GND	B6	GND
A7		B7	
A8		B8	
A9		B9	
A10		B10	
A11		B11	
A12		B12	
A13		B13	

CN2 JST 6P connector for comm on SOUND BOARD

1	from CN3 CPU BOARD 32 pin connector pin B5
2	from CN3 CPU BOARD 32 pin connector pin B6
3	GND
4	n.c
5	from CN3 CPU BOARD 32 pin connector pin B8
6	from CN3 CPU BOARD 32 pin connector pin B7

CN1 – AMP 10P connector for PWR on SOUND BOARD

A1	5V	B1	5V
A2	5V	B2	5V
A3	12V*	B3	n.c
A4	GND	B4	GND
A5	GND	B5	GND

* needs to be connected also to PS, used for a 5V regulator

CN5 JST 5P connector for music on SOUND BOARD

- 1 Left Audio +
- 2 Left Audio -
- 3
- 4 Right Channel +
- 5 Right Channel -

CN3 JST 5P connector on upper side for sound FX on SOUND BOARD

- 1 Left Audio +
- 2 Left Audio -
- 3
- 4 Right Channel +
- 5 Right Channel -

AUDIO MIXER BOARD 839-0542

CN1 JST 5P connector

- 1 From Left Audio + CN3 SND BOARD
- 2 From Left Audio - CN3 SND BOARD
- 3
- 4 From Right Channel + CN3 SND BOARD
- 5 From Right Channel - CN3 SND BOARD

CN1 JST 4P connector

- 1 Left SPK+
- 2 Left SPK -
- 3 Right SPK+
- 4 Right SPK -

CN2 JST 5P connector

- 1 From Left Audio + CN5 SND BOARD
- 2 From Left Audio - CN5 SND BOARD
- 3
- 4 From Right Channel + CN5 SND BOARD
- 5 From Right Channel - CN5 SND BOARD