

LaserCon

LaserDisc Player Conversion Card

Instructions for use with Super Don Quix-ote

Firmware Version 6.2

Design and Firmware by Shaun D. Wood

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LaserCon is an adaptor card for the replacement of the laser disc player used in arcade lasergames. These instructions are for Super Don Quix-ote. For the complete list of other supported games and their instructions, visit: www.wood1st.com/LaserCon

Supported Replacement Players:

Pioneer - LD-V8000, LD-V4400, LD-V4300D

Parts List

LaserCon board, Main-board interface ribbon cable, Player interface serial cable.

Installation Instructions

1. Configure your new player:

All players must be configured for proper serial communication as follows:

**Baud Rate: 9600, No Parity, 1 stop bit, Data Length: 8 bits,
TxD terminator: <CR>.**

LD-V8000:

Connect the player to a TV or monitor.

Press and hold the "DISPLAY" button while powering-on the player.

Press "SCAN FORWARD" to reach Page-5 "RS-232 SWITCH P-5"

Verify: Baud Rate: 9600, No Parity, 1 stop bit, Data Length: 8 bits

To make changes, press "STEP FORWARD" to highlight an item, then press "STEP REVERSE" to change the setting.

Press "SCAN FORWARD" to reach Page-6 "RS-232 SWITCH P-6"

Verify: TxD terminator: <CR>.

LD-V8000 - Optional Setting:

P-7: Memory Control (The LD-V8000 player has the ability to hold and "freeze" the last displayed frame of video during a search operation. Thereby eliminating the blackout screen between scene searches. Some people prefer this mode, while others consider it a change from the "original" feel of the game.)

For “Original” blackout searches:

Video Memory Mode: CONTROL DISABLE

Auto Memory: OFF

For “Freeze frame” searches:

Video Memory Mode: CONTROL ENABLE

Auto Memory: ON

*** Press “DISPLAY” to save your settings and exit.**

LD-V4400, LD-V4300D:

Connect the player to a TV or monitor.

Press and hold the “DISPLAY” button while powering-on the player.

Press “SCAN FORWARD” to reach Page-3 “RS-232 SWITCH P-3”

Verify: Baud Rate: 9800, TxD terminator: <CR>.

To make changes, press “STEP FORWARD” to highlight an item, then press “STEP REVERSE” to change the setting.

*** Press “DISPLAY” to save your settings and exit.**

2. Install the LaserCon card:

Remove the original player interface ribbon cable from the main board.

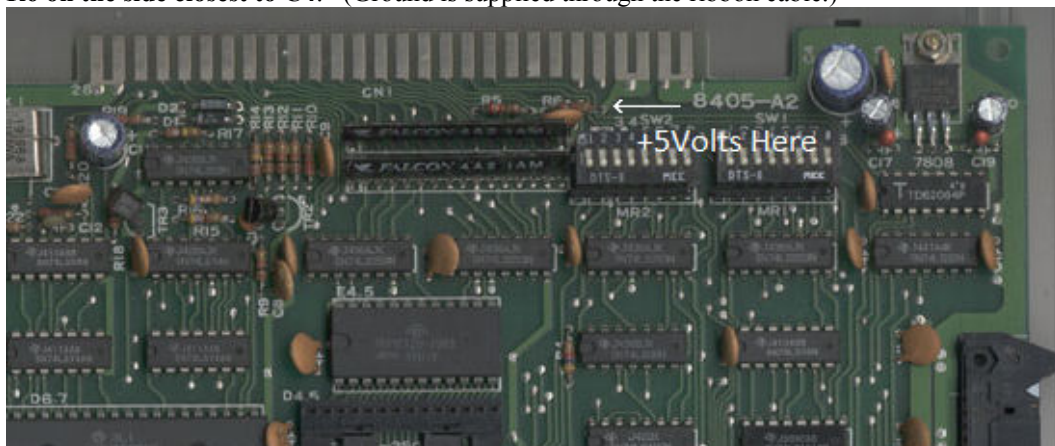
Store it away for safekeeping.

Using your LaserCon card as a template, mark and drill pilot holes in the cabinet near the main board, being careful not to drill all the way through. Be aware of the length of the ribbon cable. Mount the LaserCon card using wood screws and spacers.

Install the ribbon cable (provided) from the main board’s player connector, to LaserCon’s “CN1”.

Attach the alligator lead wire to +5Volts.

You can attach to any point supplying +5V power that you like. My recommendation is to **attach to the leg of R6 on the side closest to C4**. (Ground is supplied through the ribbon cable.)



Install the player into the game cabinet.

I will leave the means of supplying AC power to your laserdisc player up to you. You can adapt the original supply wire to your new player, or run the wire separately to outside power. If you need help with this part, feel free to email me.

Connect the supplied serial cable from LaserCon's CN2 and the player's 15-pin connector.

This is a custom cable. You **cannot** use any other serial cable. If you need to replace the cable for any reason, the pin connections are as follows...

	9-pin Female		15-pin Male	
GND	pin-1 -----	pin-11	GND	
TxD	Pin-2 -----	pin-10	RxD	
RxD	Pin-3 -----	pin-9	TxD	

3. Set Dipswitches:

On LaserCon, set switch 1 2 3 4
OFF ON OFF ON (default for shipping)

LaserCon Dip-switch settings (Ver. 6.2 firmware)

Game	Switch 1	Switch 2	Switch 3	Switch 4
Euro Space Ace w/'91 ntsc disc	0	0	0	0
Euro Space Ace w/'83 ntsc disc	1	0	0	0
Thayer's Quest, Super Don, Esh's Aurunmilla - 9600 baud	0	1	0	1
Euro DL/SA - 9600 baud	1	1	0	0
Space Ace w/'91 disc - V1000	0	0	1	1
M.A.C.H. 3 PR-8210 mode	1	0	1	0
Dragon's Lair / Space Ace LD-V1000 mode	0	1	1	1
Dragon's Lair / Space Ace PR-7820 mode	1	1	1	0

Operation

Power on your machine.

The red LED should light, indicating that the LaserCon board is properly powered.

After a one second delay, the “LDP” LED should light, indicating that LaserCon has established serial communication with the player.

After a short time, the “CPU” LED should light, indicating that LaserCon has received the “PLAY” command from the main board.

The Player should now begin to spin-up and play. The “LDP” LED will go dark, indicating that the player is busy.

Once the game is up and running, all three LEDs should remain lit, with only momentary blinking of the “LDP” LED during searches.

Enjoy!

Disclaimer

Use at you own risk. By accepting this product, user also accepts all responsibility for the use of this product and releases its manufacturer, Shaun D. Wood, from all possible responsibilities for damages of any kind that the user may incur due to use or misuse of this product.

And Finally...

If you are having any trouble installing your LaserCon card, please contact me immediately via email. I will help you get it working.

LaserCon is an open source project. If you want to write code for other games or players and would like to have copies of the schematics and firmware files, contact me, or visit www.wood1st.com/lasercon. Please consider donating your work to be included in future releases of LaserCon.

If you need any help or have any questions, comments, or suggestions, please contact me: shaun@wood1st.com.