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PCM-3522 LCD PANEL ADAPTER USER'S MANUAL

Step 1: Turn off your system

Step 2: Connect SBC LCD connector to the **CN1 of PCM-3522** (LCD Panel adapter) with cable (44 pin, 2mm, 300mm).

Step 3: *NOTICE!* Please make sure PCM-3522 is connected to your SBC only. **DO NOT CONNECT ANY CABLE TO LCD PANEL BEFORE CHECKING PANEL DRIVING VOLTAGE!**

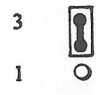
Step 4: PCM-3522 driving voltage (V_{EE}) jumper setting (JP1):

Voltage: 0~-35V **(default -17 V for SHARP LM64183P)**



JP1

Voltage: 0~+35V



JP1

Step 5: Panel driving voltage V_{EE} adjusting and diagnosis:
1) Please connect a Voltage Meter between V_{EE} (CN13 Pin 7) and GND (CN13 Pin 8)
2) Turn on power supply
3) Adjust **VR2** to set the LCD panel driving voltage V_{EE} to proper value according to the specifications of your LCD panel
(default -17V for Sharp LM64183P)

Step 6: Panel driving voltage V_{CON} adjusting and diagnosis (**if reaquire** connect to CN5):
1) Please connect a Voltage Meter between V_{CON} (CN5 Pin 12) and GND (CN5 Pin 8)
2) Turn on power supply
3) Adjust **VR1** to set the LCD panel driving voltage V_{CON} (0 ~ 2.5V) to proper value according to the specifications of your LCD panel

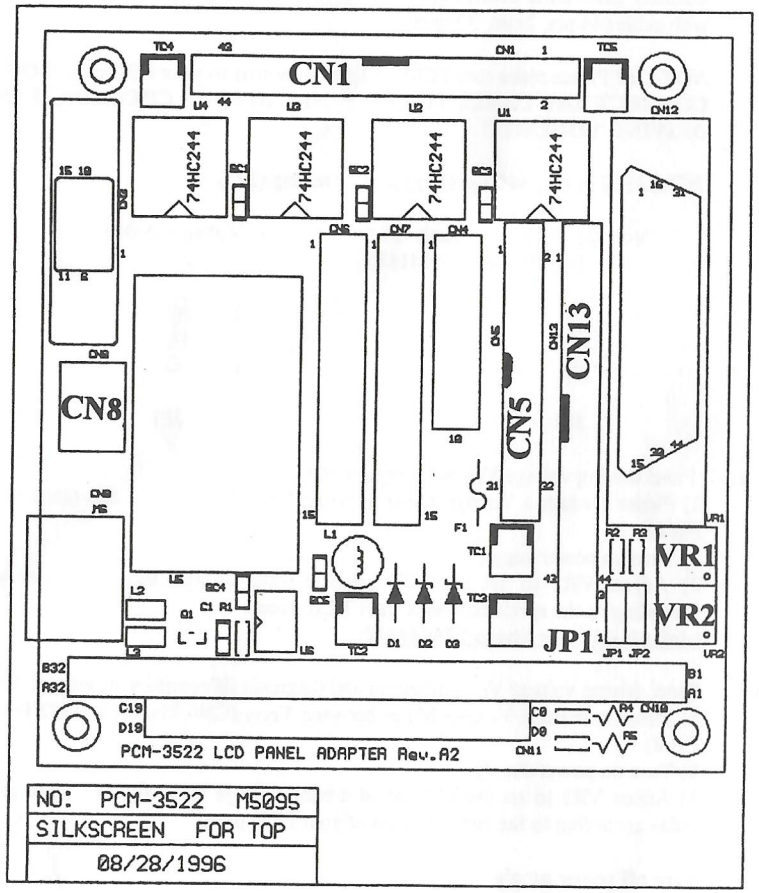
Step 7: Turn off power supply

Step 8: Connect CN13 or CN5 according to your LCD panel (connection cable please refer to attached CN13 and CN5 pin assignments)

Step 9: Connect CN8 to LCD panel back light connector
(*NOTICE!* CN8 AC output: **Min 750 Vrms** [between pin 1 and pin 4])

Step 10: Turn on System power supply

Part No. 2006522000, PCM-3522 Rev.A2 1st Ed.
Printed in Taiwan, September 1996



LCD Panel Adapter **Input** connector (CN1)

Pin	Function	Pin	Function
1	+12 V_{DC}	2	+12 V_{DC}
3	GND	4	GND
5	Vcc (+5 V_{DC})	6	Vcc (+5 V_{DC})
7	EN LCD	8	GND
9	P0	10	P1
11	P2	12	P3
13	P4	14	P5
15	P6	16	P7
17	P8	18	P9
19	P10	20	P11
21	P12	22	P13
23	P14	24	P15
25	P16	26	P17
27	P18	28	P19
29	P20	30	P21
31	P22	32	P23
33	GND	34	GND
35	LCD clock	36	FLM (V sys)
37	M	38	LP (H sys)
39	GND	40	EN ABKL
41	KB CLK	42	KB DATA
43	MS CLK	44	MS DATA

LCD Panel Adapter **Output** connector (CN5)

Pin	Function	Pin	Function
1	DL4 (P7)	2	GND
3	DL5 (P6)	4	YD (FLM)
5	DL6 (P5)	6	LP (LP)
7	DL7 (P4)	8	GND
9	GND	10	XCK (LCD CLK)
11	DL0 (P15)	12	VCON
13	DL1 (P14)	14	VDD
15	GND	16	VDD
17	DL2 (P13)	18	DISP (EN ABKL)
19	DL3 (P12)	20	NC
21	GND	22	DU3 (P8)
23	DU4 (P3)	24	DU2 (P9)
25	DU5 (P2)	26	DU1 (P10)
27	GND	28	DU0 (P11)
29	DU6 (P1)	30	GND
31	DU7 (P0)	32	NC

LCD Panel **Back light** connector (CN8)

Pin	Function	Pin	Function
1	*AC output	2	NC
3	NC	4	*AC output

*CN8 AC output (between pin 1 and pin 4): Min.750 Vrms, 5.0+/-1 mArms, 35.0+/-5 Khz

LCD Panel Adapter **Output** connector (CN13)

Pin	Function	Pin	Function
1	+12 V_{DC}	2	+12 V_{DC}
3	GND	4	GND
5	Vcc (+5 V_{DC})	6	Vcc (+5 V_{DC})
7	VEE	8	GND
9	P0	10	P1
11	P2	12	P3
13	P4	14	P5
15	P6	16	P7
17	P8	18	P9
19	P10	20	P11
21	P12	22	P13
23	P14	24	P15
25	P16	26	P17
27	P18	28	P19
29	P20	30	P21
31	P22	32	P23
33	GND	34	GND
35	LCD clock	36	FLM (V sys)
37	M	38	LP (H sys)
39	GND	40	EN ABKL
41	KB CLK	42	KB DATA
43	MS CLK	44	MS DATA

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