



SEPDISP08-7V

Modification instructions

Ver. 5.0

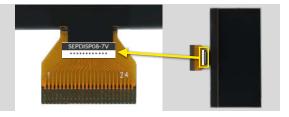


WARNING: THIS PROCESS IS RECOMMENDED ONLY TO EXPERT AND QUALIFIED STAFF.

NOTE:

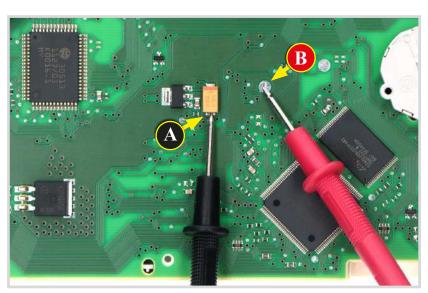
The following instructions are only for SEPDISP08-7V displays with the warranty code printed on a label attached on the FPC (see the picture beside). **ATTENTION!**

If the code is, instead, marked directly on the FPC, please contact us.



THE FOLLOWING MODIFICATION IS NECES-SARY FOR THE CORRECT FUNCTIONING OF SEPDISP08-7V DISPLAY.

- Replace the display in an ambient temperature of 25 °C.
- · After replacing the LCD, switch on the cluster with our CONNECTOR SEP-PA011 and measure the voltage between A and B points as in picture 1.
- If the voltage measured is between 6.45V and 6.55V no modification is necessary;
- If the voltage detected is instead lower than 6.45V or higher than 6.55V, it is necessary to do the modification described in the following paragraph "EEPROM MODIFICATION".



Picture 1

EEPROM MODIFICATION

NOTE: For this modification it is necessary to use an EEPROM programmer.

We recommend our SEP-EECLIP.

PROCEDURE

- First, set the programmer reading in 8 bit hexadecimal (HEX):
- Desolder and make a backup of the **EEPROM** (24C04 or 24C32) highlighted in picture 2, located on the PCB.
- To reach a voltage between 6.45V and 6.55V, identify the 01BF and 01CF locations and modify their values.

Please note that increasing or decreasing the 2 values by 1 HEX unit, the variation will be +/- 0.09V.

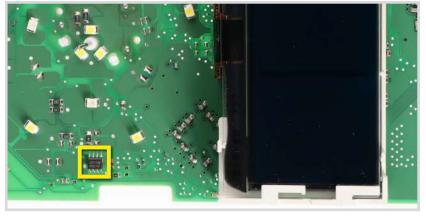
NOTE: If not familiar with hexadecimal calculation, it is possible to use the calculation tool in the box beside, simply typing in the values.

VERIFICATION

Once these operations have been done, solder back the EEPROM on the PCB, switch on the instrument cluster and check again the tension between points A and B (see picture 1).

Verify, then, if a voltage between 6.45V and 6.55V has actually been reached.

If not, decrease or increase the values of the locations until the voltage is between that range.



Picture 2

CALCULATION OF THE NEW VALUES OF THE LOCATIONS
(The tool works correctly only on computers. For the mobile version, $\underline{\text{click here}}$

 Type in the value of the voltage measured between point A and 	В	(ріс.	1
(use a period as decimal separator, e.g. 7.4)			

01BF LOCATION

- · Type in the HEX value of 01BF location*
- · new value to type in 01BF location

_	a.	CE		~		T1.	_		ı
U	Ц	CF	L	JC	А	ш	U	D	Į

- · Type in the HEX value of 01CF location*
- · new value to type in 01CF location

"How to identify (11RE and O1C	Locations value	s on the FFPROM

Offset(h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
000001A0	28	64	12	80	00	80	0.0	0%	01	10	TT	FF	FF	FF	22	77
000001B0	77	FF	TT	rr	77	PT	11	0.6	PT	PC	FD	00	0.9	100	95	27
000001C0	81	0.9	37	CR	03	1.0	LA	10	08	01	77	00	01	OE	03	2.3
000001D0	18	03	rr	4F	20	00	rr	0.0	17	0.2	04	ER	FF	05	08	24