

## SEPDISP30

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Modification instructions

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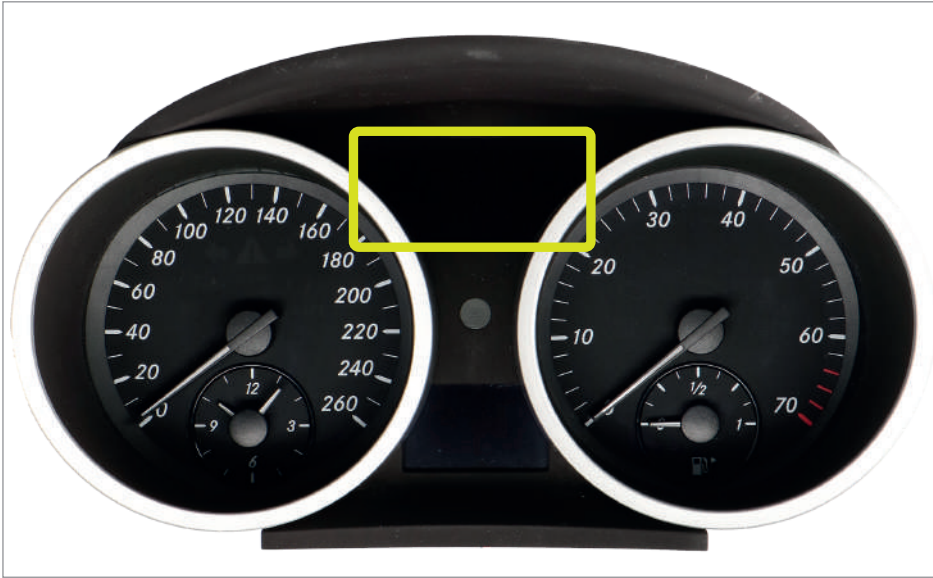
Ver. 3.0



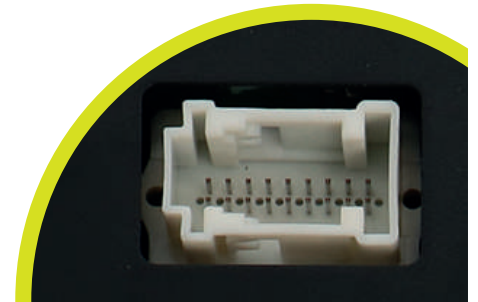
**WARNING: This process is recommended only to expert and qualified staff.**

THE FOLLOWING MODIFICATION IS NECESSARY FOR THE CORRECT FUNCTIONING OF SEPDISP30 DISPLAY (pic. 1).

Replace the display in an ambient temperature of 25 °C.



Picture 1



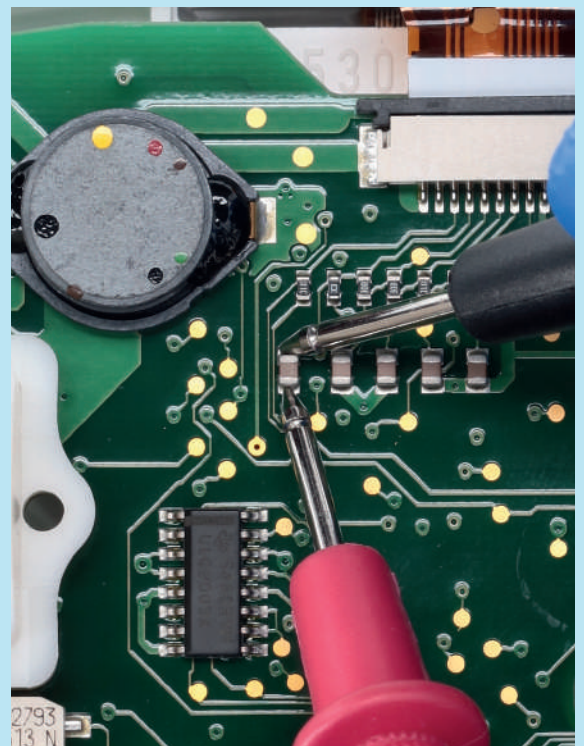
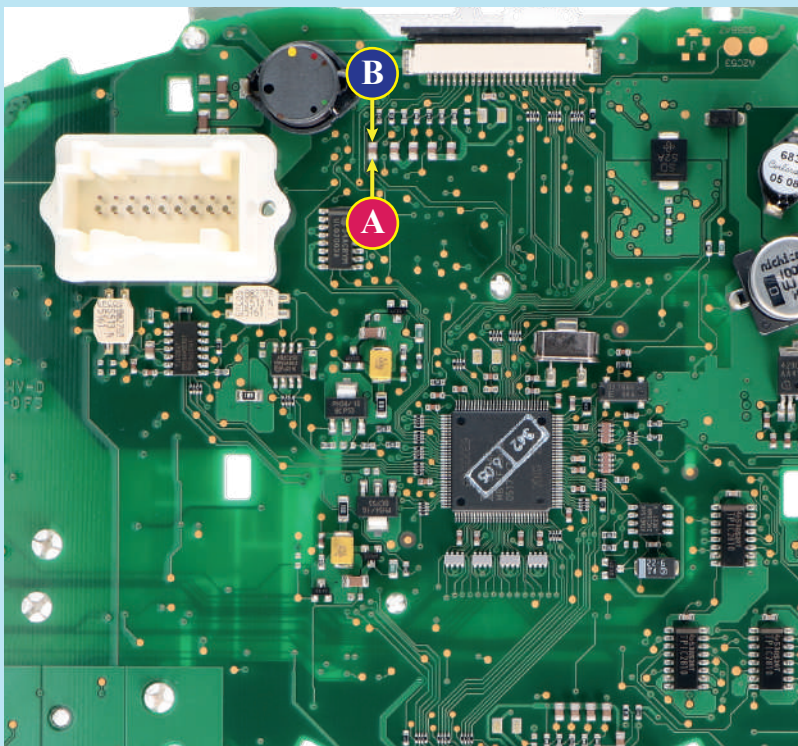
Picture 2

### To adjust SEPDISP30 display voltage:

After replacing the LCD, switch on the cluster: white connector (pic. 2) pin no. 1 negative, pin no. 5 and pin no. 6 positive. Measure the voltage between A and B points as in picture 3.

- ▶ If the voltage measured is between 12.08V and 12.12V, no modification is necessary;
- ▶ If the voltage detected is instead lower than 12.08V or higher than 12.12V, it is necessary to do the modification described in the following paragraph "EEPROM MODIFICATION".

### Measuring display voltage



Picture 3

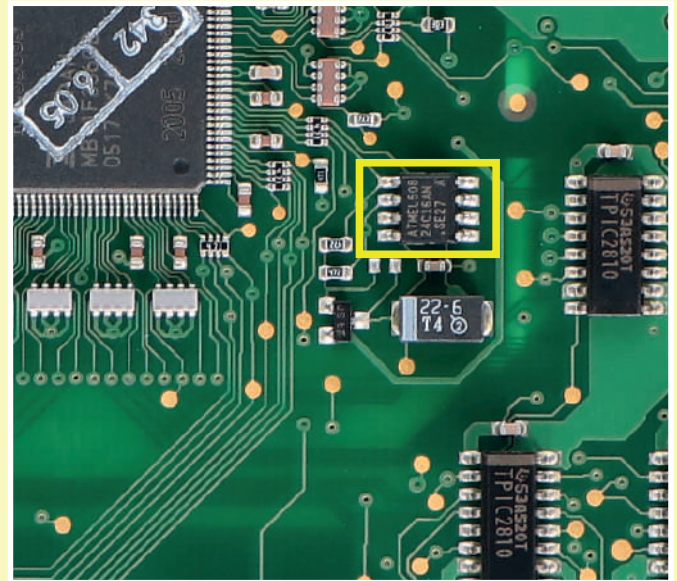
## EEPROM MODIFICATION

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

We recommend our **SEP-EECLIP**.

- First, set the programmer reading in **hexadecimal (HEX)**;
- Desolder and make a backup of the **24C16 EEPROM** (shown in picture 4);
- To reach a voltage close to 12.1V act on **02B8 location**.

Please note that **decreasing this location by 1 HEX unit**, the **variation will be + 0.016V**, or vice versa.



Picture 4

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

### CALCULATION OF THE NEW VALUE OF THE LOCATION

• Type in the HEX value of 02B8 location\*

• Type in the value of voltage measured between A and B points (use a period as decimal separator, e.g. 12.76)

• New value to type in 02B8 location

\*How to identify 02B8 location value on the EEPROM programmer

Offset (h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00000290	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	00
000002A0	48	00	4F	00	7A	01	03	01	C4	02	D5	03	13	03	4A	01
000002B0	1D	01	59	01	95	01	9A	01	51	9F	01	A5	01	8B	00	
000002C0	48	00	4F	00	7A	01	03	01	C4	02	D5	03	13	03	4A	01
000002D0	11	01	3A	01	83	01	8B	01	9A	01	90	01	A2	01	A7	02

Once these modifications have been done, **measure again the voltage between A and B points** and check that it actually is between 12.08V and 12.12V.

If not, increase or decrease the location until the value is as close as possible to the right range.