



SEPDISP21B

Modification instructions

Ver. 3.0

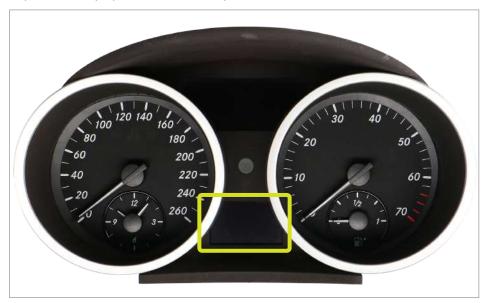


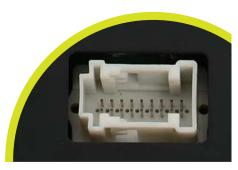


WARNING: This process is recommended only to expert and qualified staff.

THE FOLLOWING MODIFICATION IS NECESSARY FOR THE CORRECT FUNCTIONING OF SEPDISP21B DISPLAY (pic. 1).

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





Picture 2

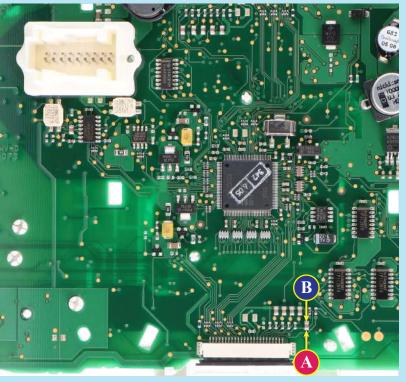
To adjust SEPDISP21B display voltage:

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 11.98V and 12.02V, no modification is necessary;
- If the voltage detected is instead lower than 11.98V or higher than 12.02V, it is necessary to do the modification described in the following paragraph "**EEPROM MODIFICATION**".

Picture 1

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 12.00V act on **02D8** location

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



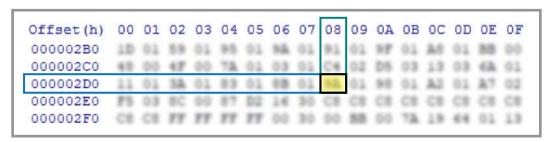
Picture 4

If not familiar with hexadecimal calculation, it is possibile 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 02D8 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 02D8 location.

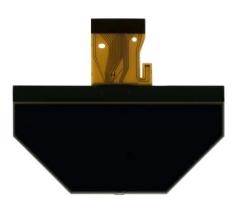
*How to identify 028D8 location value on the EEPROM programmer



Once these modifications have been done, **measure again the voltage** between **A and B points** and check that it actually is between 11.98V and 12.02V.

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





SEPDISP30

Modification instructions

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 2

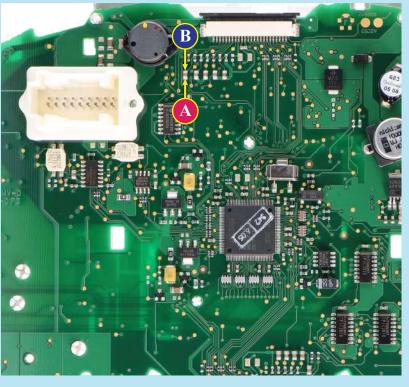
To adjust SEPDISP30 display voltage:

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".

Picture 1

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 possibile 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*	
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• 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	OD	0E	OF
00000290	FF	FF	FF	FF	rr	FF	FF	FF	rr	FF	FF	FF	FF	FF	FF	0.0
000002A0	40	0.0	47	0.0	78.	01	0.3	01	C4	02	D5	0.3	13	0.3	63.	0.1
000002B0	10	01	59	01	95	01	16.	01	ž,	01	ST	01	A0	01	33	04
000002C0	40	00	47	00	78.	01	0.3	01	C4	0.2	D5	0.3	13	0.3	63.	0.1
000002D0	11	01	38.	01	83	0.1	18	01	10.	01	90	01	A2	01	27	0.2

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.