

Триома

Разработка и производство
интерфейсных адаптеров



**Adapter for original car amplifier
Model MOST-AMP 4.0**

Service manual

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Chapter 1. Description

Assignment

Adapter Most-AMP used in car's audio system in the case, if you decide to replace the original head unit on non-original unit, but you want to keep the original amplifier and speakers. The Volume, Balance and all frequency adjustments are working full and pseudo-adjustment "Fader", which is implemented by measuring the signal levels in real time. Feature of the functioning of "Fader" is described below.

The adapter allows you to use non-original head units with the effective values of the voltage on the RCA outputs from 1V to 4V.

On the device there are:

- RCA-inputs and WakeUp connector (Fig.2),
- platform for jumpers, connectors Power and MOST (Fig.3).



Fig.1. Most-AMP 4.0

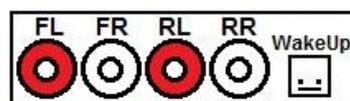


Fig.2. Connectors RCA and WakeUp

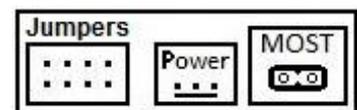


Fig.3. Connectors Power and Most, platform for jumpers

Compatibility

Cars with interface Most-25

- Mercedes Benz (including W211 and W220),
- Porsche,
- BMW (except E65)

Package contents

- Adapter Most-AMP 4.0 (Fig.1)
- Power cable (Fig.4)
- Jumpers (4pcs)
- Service manual

Optional:

- Connector (required for MB and BMW, Fig.6)
- WakeUp cable (required for MB W211 and W220, Fig.5) (extra cost)

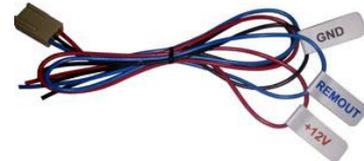


Fig.4. Power cable



Fig.5. WakeUp cable



Fig.6. Connector

Chapter 2. Connection

1) To set the jumpers according to the type of the original system and the selected modes (Fig.7):

- Jumpers must be installed in any AUTO position for MB W211/W220
- If the jumper is set to the position of the Fader ON, then pseudo-adjust the Fader active
- The jumper is set to position 4V input to head unit with the effective value of the voltage on its RCA outputs more than 2V.

2) To connect the power cable (Fig.4):

- blue wire (Rem.out) - to the control output of the installed head unit.
- red (Battery +12V) and black (GND) wires - to corresponding power circuits of the car.
- connector of power cable to connector "Power" adapter (Fig.3)

3) Note only for MB W211/W220 – to connect cable "WakeUP" to connector "WakeUP" on adapter and to pin No. 3 connector head unit (AGW unit).

4) The MOST optical connector in the corresponding connector "MOST" adapter.

5) Audio lines (left and right channels) to the RCA inputs of the adapter (Fig.2):

- in the "Fader ON" mode – two lines "Front" (FR and FL) and two lines "Rear" (RR and RL) speakers.
- if you use no pseudo-fader is sufficient to connect only two lines of acoustics front (FR and FL).

	Fader ON
	4V input
	AUTO
	AUTO
	BMW
	Mercedes -2009
	Mercedes 2009+
	Porsche -2009
	Porsche 2009+

Fig.7. Jumper settings

Chapter 3. How does the adapter

When You turn on the non-original head device and a voltage appears on its control output "Remout" in this time, adapter Most -AMP initializes the interface MOST within 1-2 seconds, includes original amplifier, set the volume to the optimal value, and adjust the "Treble", "Bass", "Balance" and "Fader"- in the middle position. The analog input of the adapter is switched on for receiving an external stereo signal with the current value of 1V or more than 2V (depending on the presence of a jumper in position "4V input" - see Pic.3).

Thus, the sound signal from the line outputs of the head unit digitized and gets into a original amplifier through an optical interface, work fine built-in audio adjustment - Volume, Treble, Bass, Balance.

If pseudo-adjustment "Fader" not activated

In this case, adjusting the "Fader" will be ineffective (rear and front speakers will work as in the middle position of the Fader).

If You want to use this adjustment, You should connect the RCA outputs of front channel to inputs on the adapter Most-AMP, and rear speakers be disconnected from a original amplifier and connect to the rear outputs of the capacity of the installed non-original head unit.

If pseudo-adjustment "Fader" activated

The adapter will calculate the amplitude of the signal and to determine the difference between the levels of the front and rear channels by measurements in real time and use this data to determine the current value of the adjustment Fader. This algorithm has several features:

- to adjust, use only three steps «forward» and three steps «back».
- control is performed with a little delay (about 1-2 seconds).
- the measuring part of the algorithm is forcibly turned off when small signals (in this case retains the last set value of this setting).