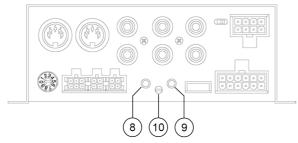


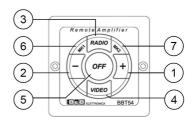
Ord. code: BBA54 / BBA54-12

DIGITAL STEREO AMPLIFIER









1	+	volume +						
2	-	volume -						
3	RADIO	select radio + power-on for amplifier						
4	VIDEO	select radio + power-on for amplifier						
5	OFF	amplifier off						
6	MK1	microphone 1 operating light						
7	MK2	microphone 2 operating light						
8	GAIN -	reduce gain						
9	GAIN +	increase gain						
10	LED	LED light						

Index

1 Technical specifications

- 2 Operating without the keypad
- 2.1 Power-on and off
- 2.2 Inputs / Functionality
- 3 Operating with the keypad
- 3.1 Power-on and off
- 3.2 Inputs / Functionality
- 4 Connections
- **5** Diagrams of connection

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NU_BBA54_001_15072011_EN



General Features

A new concept Digital Stereo Amplifier for vehicles, with significant technological innovations. All functions are controlled by a micro-controller. Audio inputs (Radio-Video) and volume control. It may be connected to any model/brand of Radio-Tape/CD player, which it also supplies power voltage to. Power-on for video system.

Two microphone inputs with independent volume control and priority over all other sources. RS485 dual serial port (interfaceable with CAN systems) to integrate into the vehicle devices and to dialogue with different B&B devices. Can be cascadelinked to more amplifiers to create different listening zones. Compact, versatile and easy to install. Works independently, connected to other (B&B) amplifiers or with the (BBT54) appropriate command keypad which enables direct source selection and volume adjustment. Its small size means it fits easily into any part of the vehicle.

Caution

It is recommended to carefully read through the instructions, prior to setting this device in operation; a thorough understanding of the basics means an easier utilization of this device. Please, follow the instructions to carry out the "BBA54" amplifier connections: chapter 4 CONNECTIONS chapter 5 DIAGRAMS OF CONNECTION

2 Operating the BBA54 and BBA54-12 without the keypad

When power is supplied the amplifier (**BBA54** or **BBA54-12**) goes into standby mode and supplies power to the connected radio (Radio-Tape/CD). By supplying voltage to the REM-RADIO (switching on the radio) or REM-VIDEO (switching on the video system) or activating the microphones (MK1-MK2), the amplifier switches on. It is possible to adjust the gain of each active source individually. Adjustments remain in the memory even when the supply voltage is switched off. The REM-VIDEO has priority over the REM-RADIO, MK1 and MK2 have precedence over both of them and MK1 has priority over MK2. In the absence of these commands, the amplifier returns to standby.

2.1 Power-on and off

REM-RADIO (switching on the radio), REM-VIDEO (switching on the video system) or with MIKE1/MIKE2 being active, the amplifier is switched on. In the absence of these commands, standby mode is restored.

2.2 Inputs/Functionality

RADIO: input for Radio -Tape/CD

On switching on, the radio (Radio-Tape/CD) supplies voltage (REM-RADIO) to contact no. 2 of the "RADIO PW" connector of the determining amplifier: source on and source selection. VIDEO: input for video system audio

Voltage (REM-VIDEO) supplied to contact no.10 of the "POWER" connector determines: switching on monitors, amplifier and source selection. The VIDEO input has priority over the RADIO. Mikes: The amplifier is provided with two mike inputs (MK1-MK2) with priority over all other sources, mikes are switched on with their own switch, and are not dependent from the amplifier status (on or off).

Date: 15/07/2011

Page 2 / 9

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Gain adjustment: Volume adjustment (in this configuration) depends on the sources connected to the amplifier. However, it is possible to set the desired gain for each active source, by using the (gain + or gain -) buttons on the amplifier. The red LED flashes during the adjustment phase. The gain values set remain in the memory even if the power is removed from the amplifier.

RS485 Serial: The RS485 dual serial port (MODBUS-RTU protocol) allows the amplifier (master) to dialogue with all B&B devices and with any other systems in existence. The peripheral units (slaves) identification is determined by the position of the decimal uniselector on board all B&B equipment.

Just assign a number $(1\div7)$ to each **slave**. Please, note that the number "0" is assigned to the master.

3 Operating the BBA54 and BBA54-12 with the keypad

When power is supplied the amplifier (BBA54 or BBA54-12) goes into standby mode and supplies power to the connected radio (Radio-Tape/CD). By pressing the relevant button for the required source (RADIO or VIDEO) or by activating the microphones (MK1 or MK2), the amplifier is switched on (MK1 has priority over MK2). In this mode it is possible to adjust the volume of each active source individually. Adjustments remain in the memory even when the supply voltage is switched off. To turn off the amplifier, press the OFF button, which restores it to standby mode.

3.1 Power-on and off

Select: Radio or Video to power-on the amplifier. The corresponding key will change color from green to red, the OFF esc one will change from red to green. Press the OFF key to power-off the amplifier.

3.2 Inputs/Functionality

RADIO: input for Radio-Tape/CD.

The amplifier supplies power to the connected radio. Volume control is effected by pressing the buttons + or -, and remains in the memory even if even if the power is removed from the amplifier.

VIDEO: input for video system audio.

The amplifier controls the on/off switch of the monitors. Volume control is effected by pressing the buttons + or -, and remains in the memory even if even if the power is removed from the amplifier.

Mikes: The amplifier is provided with two mike inputs (MK1-MK2) with priority over all other sources, mikes are switched on with their own switch, and are not dependent from the amplifier status (on or off). Volume control is effected by pressing the buttons + or -, and remains in the memory even if even if the power is removed from the amplifier.

RS485 Serial: The RS485 dual serial port (MODBUS-RTU protocol) allows the amplifier (master) to dialogue with all B&B devices and with any other systems in existence. The peripheral units (slaves) identification is determined by the position of the decimal uniselector on board all B&B equipment.

Just assign a number $(1\div7)$ to each **slave**. Please, note that the number "0" is assigned to the master.



Page 3 / 9

Date: 15/07/2011

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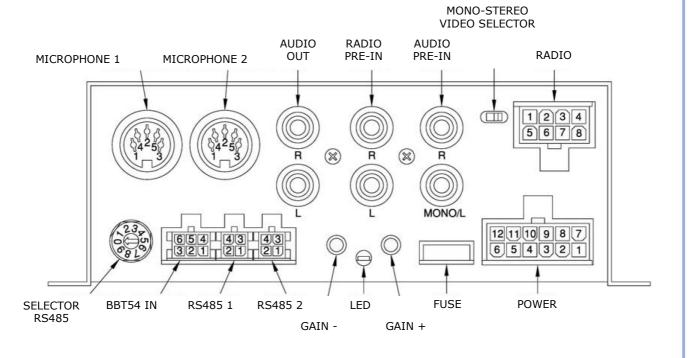
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4 CONNECTIONS



MICROPHONE 1-2 RS485 1-2		RADIO		POWER							
1	MICROPHONE +	1	GND	1	GND	1	LOUDSPEAKER L+		4	REM-OUT	₽
4	MICROPHONE -	2	GND	2	REM-IN RADIO	2	LOUDSPEAKER L-		10	REM-IN VIDEO	-12
2	SWITCH	3	В	3	LOUDSPEAKER-IN L-	7	LOUDSPEAKER R+	-	5	+VDC IN (+30) PERMANENT	٩
5	SWITCH	4	А	4	LOUDSPEAKER-IN R-	8	LOUDSPEAKER R-		11	+VDC IN (+15) IGNITION KEY	G
3	NC			5	+12V OUT (+30) PERMANENT	3	VIDEO ON SWITCH	٦	6	GND	÷
				6	+12V OUT (+15) IGNITION KEY	9	VIDEO ON SWITCH	`	12	GND	÷
				7	LOUDSPEAKER-IN L+						
				8	LOUDSPEAKER-IN R+						



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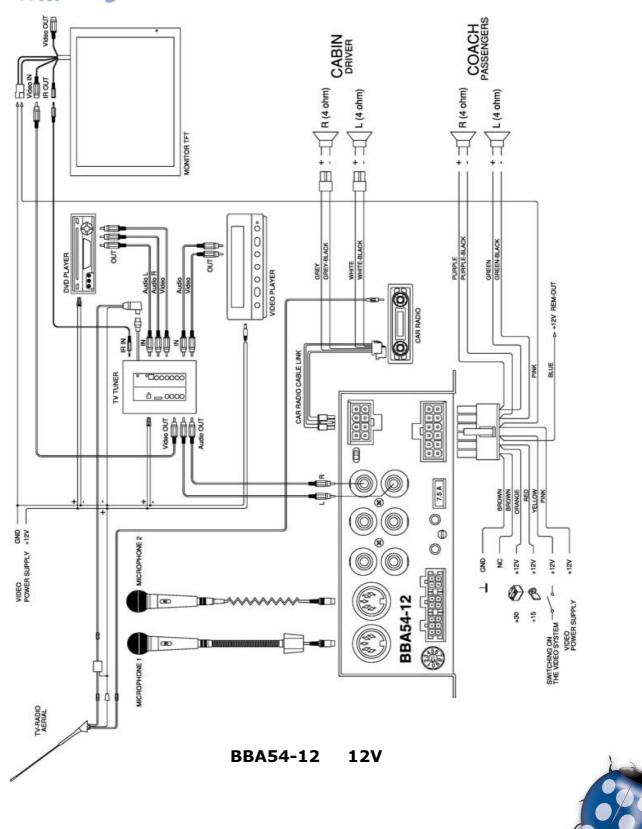
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5 DIAGRAMS OF CONNECTION

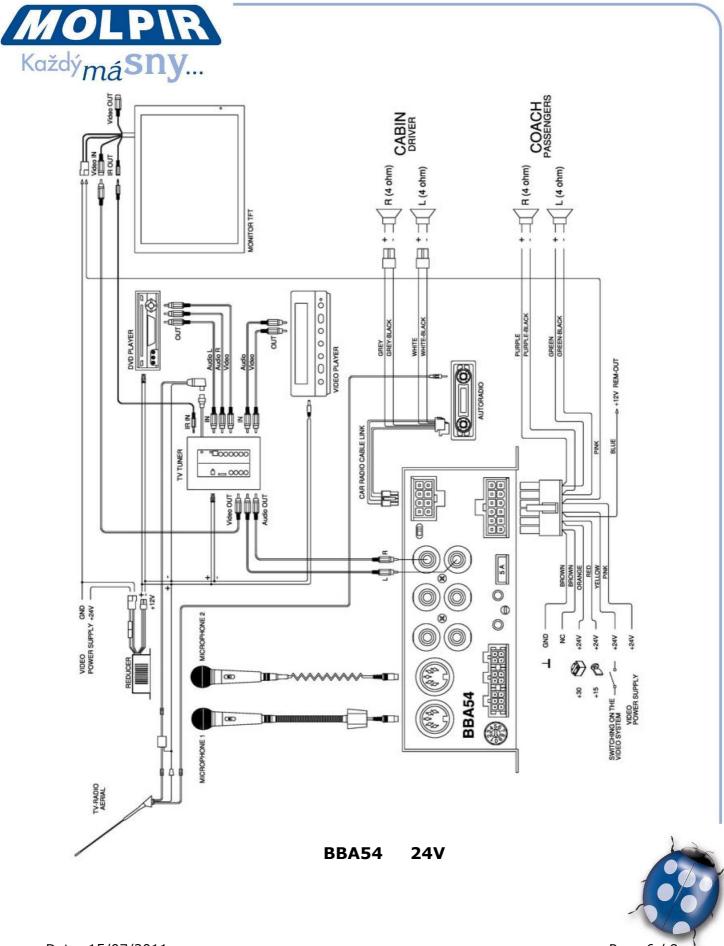


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Page 5 / 9

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Page 6 / 9

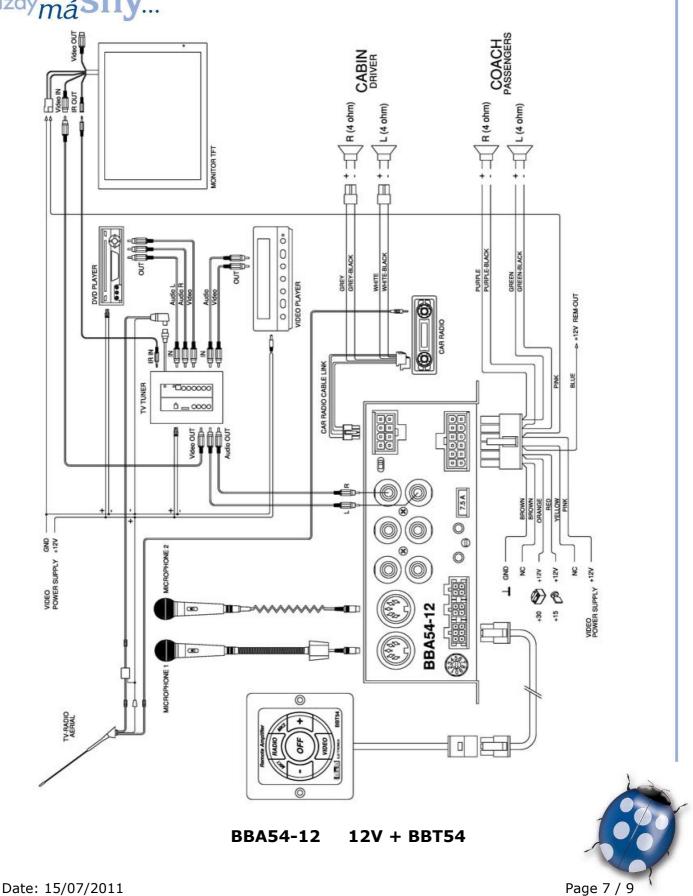
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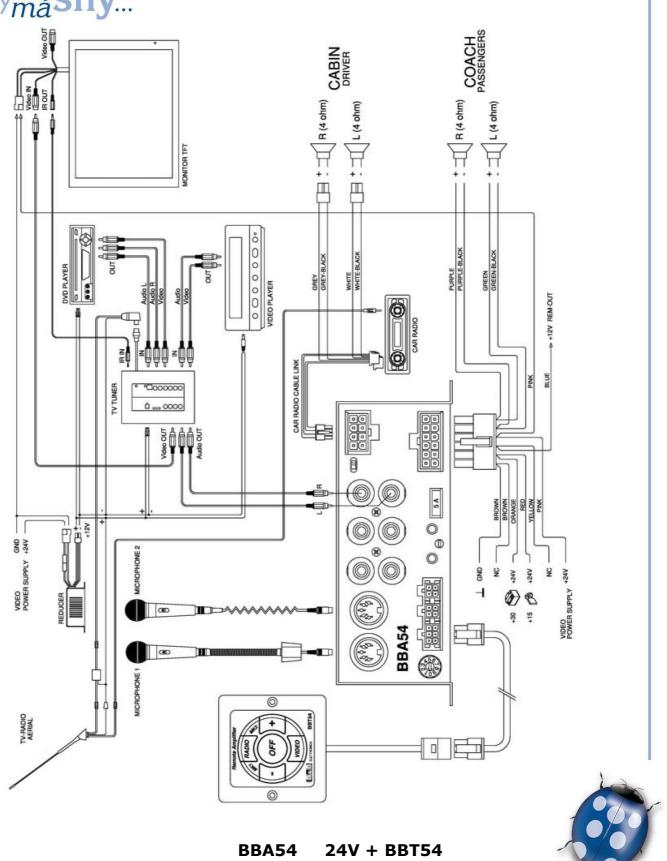




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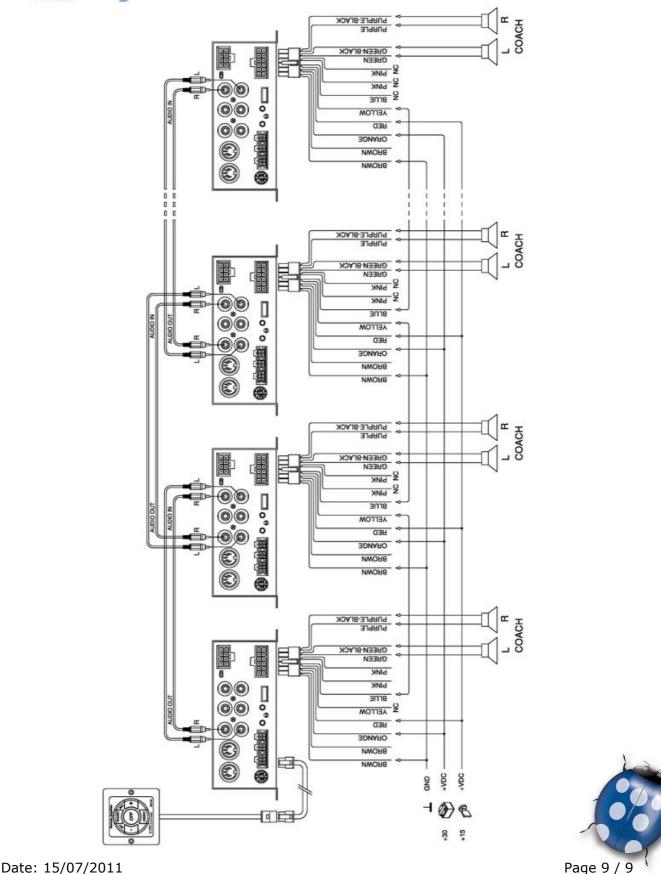
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Page 8 / 9

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Page 9 / 9

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