■In Case Of Difficulty

Symptom	Cause	Remedy		
The unit doesn't	Fuse is burnt	Replace a new fuse with specified content.		
work	The unit doesn't powered on	Check if the connection is correct, and ACC is open.		
Bluetooth	Check if Bluetooth is paired correctly	Bluetooth pairing		
doesn't work	Bluetooth pairs with other device	Disconnect the other device and pair the correct device.		
card doesn't work	USB/SD card can't be recognized	Change new USB/SD card		
	The unit doesn't switch to USB/SD card mode	Switch to USB/SD card mode		
No sound come out	Wrong connection or selecting wrong audio output	Correct into right connection and right mode.		

Pin Configuration

	-						
D1	AUDIO IN Signal -	C1	NC	B1	Dmic IN +	A1	FL-(TO VA-400)
D2	AUDIO IN Signal R+	C2	NC	B2	Dmic IN -	A2	FL+ (TO VA-400)
D3	AUDIO IN Signal L+	C3	NC	B3	Dmic Ctrl GND	A3	FR- (TO VA-400)
D4	VIDEO IN Signal	C4	NC	B4	Dmic Ctrl input	A4	FR+(TO VA-400)
D5	VIDEO IN Signal R+	C5	NC	B5	Gmic IN +	A5	RL- (TO VA-400)
D6	VIDEO IN Signal L+	C6	NC	B6	Gmic IN -	A6	RL+ (TO VA-400)
D7	VIDEO IN Ctrl output	C7	NC	B7	Gmic Ctrl GND	A7	RR- (TO VA-400)
D8	CAN+	C8	NC	B8	Gmic Ctrl input	A8	RR+ (TO VA-400)
D9	CAN-	C9	NC	B9	DVD Signal	A9	Driver hard-wired mute
D10	VSS VIDEO Ctrl output	C10	NC	B10	DVD Signal R+	A10	NC
D11	NC	C11	TV Ctrl output	B11	DVD Signal L+	A11	NC
D12	NC	C12	Multichannel Force	B12	Wheelchair GONG	A12	NC
D13	NC		Announcement	B13	Host notification GONG	A13	RAD/CD Signal R-
D14	NC	C13	Multichannel out R+	B14	Next stop GONG	A14	RAD/CD Signal R+
D15	NC	C14	Multichannel out L+	B15	Video ON indication	A15	RAD/CD Signal L-
D16	Hearing aid loop out +	C15	Multichannel out -	B16	DVD Ctrl output	A16	RAD/CD Signal L+
D17	Hearing aid loop out -				CAM Ctrl output	A17	Power GND
D18	NC			B18	Pause playback output	A18	Amplifier Turn On
D19	Radio volume on input					A19	Ignition ON
D20	NC		'in Conf i			A20	12-24 VDC continuous
D21	NC	- 14	'in Conti		Instion	A21	Analog Input DIMMING
				3			backlight
1	4 7 10 13 16 19	a 1	4 7 10 13	1 /	1 7 10 13 16	1 4	7 10 13 16 19
1	4 7 10 13 16 1		4 7 10 13 5 8 11 14 6 9 12 15	1 4	4 7 10 13 16 5 8 11 14 17	1 4 2 5 3 6	
2	5 8 11 14 17 2) 2	5 8 11 14	2	5 8 11 14 17	<u>2</u> 5	8 11 14 17 20
2	6 9 12 15 18 2 ⁻	1 2	6 9 12 15	3 (5 9 12 15 18	36	9 12 15 18 21
		5∥⊏	6 9 12 15	č (<u> </u>	
	D		C		В		Α
	-		-				

Sound Selector VSS-06

User Manual

Please read this user manual before installation and operation.

Volvo Bus Corporation

Preface

VSS-06 is a unit for multichannel sound selection and control. It canselect multichannel sounds (e.g. DVD, RADIO, etc.) and control outputs. Ithas two microphones inputs. Meanwhile the other equipment in the buscan also be controlled through it. Working Temperature: -20°C~70°C Storage Temperature: -40°C~85°C Net Weight: About 1.4KG Positive Size: 189×60×26mm (W/H/D) Full Size: 178×50×153mm (W/H/D)

Audio part Audio Input Sensitivity: 1.414 VPPAudioInput Impedance: >10k Ω Degree of Distortion: <0.3% SNR: >80dB Channel Spacing: >75dB Frequency Response: 20~20KHZ BAS: ±15dB (60HZ) TRE: ±15dB (10KHZ)

Video Part Video output: 1V±0.2V Video Output Impedance: 75Ω Video Output Format: NTSC

USB/SD Card Part USB Standard: USB 2.0 high speed SD Card Type: SD/SDHC Max Memory Capacity: 256G(USB)/32G(SD Card)

Bluetooth Part: Band: 2.402GHz~2.480GHz Max Internal Data Transfer Rate: 3Mbps Range: 10 Meters Standard: Bluetooth V5.0, Class 1.5

Installation And Service

Only professional or licensed persons can install the unit. To avoid damaging the bus, please consult the dealers before installing.
If need repair, please contact the dealers for professional repair.

to 99%, waiting for Android completing upgrade.

If there are no upgrade files, then it will reboot after waiting for a while on 0%.

If the unit is powered off during MCU upgrade, user needs to power it up again and insert USB disk, it can re-upgrade to the required version.

XVI. Bluetooth Mode

- 1. Automatically reconnect a device after power on, and the blue Bluetooth indicator light will flash slowly.
- 2. Long press Bluetooth button, user can cancel automatic reconnection, waiting for device connection, then red Bluetooth indicator light will flash quickly.
- 3. When device connection, Bluetooth indicator light stays blue.
- 4. When matching the device, user can confirm whether the pairing code is the desired device via LCD screen.

■Installation Drawing



■Specification

Normal Power Voltage: 14.5V DC (9-32V)

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Precaution

- 1. The unit adapts to DC 12V/24V and negative should be connected ground.Before installation, please make sure that the negative of the bus's system should be connected to ground.
- 2. Please follow the operation instruction. If the connection is wrong, the unit maybe break down, or the electrical system may be damaged.
- 3. Make sure all the connections are correct, then turn on the unit.
- 4. When change the burned-out fuse, please use fuse of same specification.
- 5. Do not plug up blowhole or radiator, or else the unit will heat and burn up.
- 6. Do not rebuild the unit, or else may cause accidents.
- 7. Please do not scratch the display panel.
- 8. If any operations, which will affect driving, please stop the bus first at a safe place, and then operate.
- 9.Do not operate the unit in very high temperature or very low temperature. Before turn on the power, make sure the operation temperature is -20 $^{\circ}C$ ~70 $^{\circ}C$.
- 10.Do not open the unit, to avoid the unit being damaged.

Feature

At most 5 standard audio inputs are independently selectable and with settings of volume, bass, treble, balance, loudness, etc. and sent to differentback-ends.

■Control inputs of driver and guide microphones and with setting of volume, sending to different back-ends.

Button controlsdifferent Gong Sound and outputs to differentback-ends.Support English and French.

Control devise via mobile phone APP.

Select audio source, set volume, bass, treble, balance or loudness etc.

Control audio and video device selected on the bus.

■Upgrade the device via USB disk or SD card.

User can check if something wrong on LCD screen and output video panel during test mode, checking the output level of control IO port, testing if every button and knob works well, checking environmental temperature, version etc.

Operation steps as follows:

- 1. Press MENU button to enter into menu list.
- 2. Press Power button/Playback button to select Test Mode to enter test mode.
- 3. Press Power button again to exit test mode.

Remark: Every interface for automatic switch only remains 5 seconds. If user needs to check it, user needs to exit and reenter the test mode.

XV. Upgrade Mode

Before entering into upgrade mode, user needs to wait for Android booting up and ensure there're upgrade software in the USB disk/SD card. If thereare no upgrade software/ Android doesn't boot up, then the unit can't upgrade. Upgrade mode supports USB dis and SD card.

Upgrade files should be placed in the root directory of USB disk or SD card, MCU upgrade file name should be "mcuUpdate_XXX.hex"(XXX represents the value of the upgrade file MD5), and Android upgrade file name should be "update.zip".

Detailed operation steps:

- 1. Waiting for Android completing startup;
- 2. Press MENU to enter the menu selection
- 3. Press Power/Playback/Pause button to select Software Update and enter the upgrade mode.

Upgrade order follows to upgrade MCU first (progress 0%~99%), from 0%~1% will take a while, then upgrade Android system (LCD interface will stay 99%), the system will reboot after completing upgrade.

If USB disk/SD card contains the mcu upgrade software and Android upgrade software at the same time, when MCU upgrades to 99%, it will stuck on 99% for a while(upgrade Android system).

If only muc upgrade software, MCU upgrade will reboot directly (LCD interface will increase slowly from 0% to 99% and reboot).

If only have Android update software, LCD interface will jump from 0%

3. Press any button, or not pressing any button within 6 seconds, the pop-up will disappear.

Remark: Initial setting activates microphone Gong Sound.

XI. Volume/Treble/Bass/Balance/Loudness Setting

- 1. Press MENU button to enter into menu list.
- 2. Press Power button/Playback button to select Audio.
- 3. Rotate VOL knob or short press ► ► button or ◄ ◄ button to select desired selection.

Desired selection: Treble, Bass, Balance, Loundness.

4. Press Power button/Playback button to select desired selection and rotate VOL knob or short press ► ► button or ◄ ◄ button, until adjusting to the desired volume.

Remark: if selecting Treble, Bass, Balance, and Loundness within 6 seconds pop-up not rotating knob or switch to other mode, then the unit will set to VOL mode automatically.

XII. Language Switch

- 1. Press MENU button to enter into menu list.
- 2. Press Power button/Playback button to select Language.
- 3.Rotate VOL knob or short press ► ► button or ◄ ◀ button to select the desired language.

XIII. Compatibility Mode

VSS06 defaults that input channels of TV, DVD and VIDEO IN are all enteredthrough VIDEO IN channel. This means no matter selecting DVD, TV or VIDEO IN sound source on the panel, the input source are all entered through VIDEO IN. In order to be compatible with previous VSS device, please consider following operations to switch to compatibility mode, which is independent input of DVD sound source.

- 1. Press MENU button to enter into menu list.
- 2. Press Power button/Playback button to select Compatibility Mode.
- 3. Repeat the above operation will exit compatibility mode.

XIV. Test Mode

Operation Instruction



I. Basic Instruction

Turning on and off the power Press power button to start the unit. Press the power button again to switch off the unit.

II. Program source selection

- 1.Press any button of RADIO, AUDIO IN, VIDEO IN, Bluetooth, USB, SD Card, and select the needed program, then press the TV button to select VIDEO IN program sources.
- 2.If it's in compatibility mode, press DVD button will select DVD program. If it's in non-compatibility mode, then press DVD to switch into VIDEO INprogram sources.
- 3. When pressing any button of DVD, TV, VIDEO IN, select VIDEO IN video signal.
- 4. When USB, SD Card selection is to play video, it will select its related video signal. When switching from other signal source, the unit will mute 8s and show Prevost interface. But the unit will not display Prevost if signal sources from USB, SD Card switching each other.
- 5.Insert USB, SD Card will enter into active status in inactive mode.

III. CAM Operation

Press CAM button when playing audio sources, selecting the video signal of CAM, it will show "CAM" text on the video bar of LCD screen. Press CAM button when playing video sources, video output will switch to CAM status.

IV. Menu Selection

1.Press Menu button to enter menu.

- 2.In menu, rotate knob or a short press $\triangleright |$ button or $| \blacktriangleleft |$ button to switch the previous selection/the next selection. Short pressing power button or
- \blacktriangleright ||can select the related functions.
- 3.Short press on any button mentioned above will exit menu.

V. Driver Microphone Operation

- 1. Press Microphone PTT button will activate driver microphone, LCD screen will show "Driver Microphone" text and driver microphone volume progress bar.
- 2. Rotate knob will adjust the requested volume.
- 3. Press Microphone PTT button again to switch off driver microphone, "Driver Microphone" text and progress bar will disappear.
- 4. When driver microphone is activated, LCD screen button will be no functions.
- 5. Press Microphone PTT button under inactive status can also activate driver microphone.

VI. Guide Microphone Operation

- 1.Press Microphone PTT button will activate guide microphone,LCD screen will show "Guide Microphone" text and guide microphone volume progress bar.
- 2. Rotate knob to adjust to the requested volume.
- 3.Press Microphone PTT button again to switch off guide microphone, "Guide Microphone" text and progress bar will disappear.
- 4. Driver microphone has higher priority. When driver microphone turns on, guide microphone has no sound output.
- 5. When guide microphone is activated, LCD screen button will be no functions.
- 6. Press Microphone PTT button under inactive status can also activate guide microphone.

VII. Gong Sound Operation

- 1. Press 3 Gong sound buttons will activate Gong separately, LCD screen shows "Gong 0x" popup(x means 1, 2 or 3). It can also trigger corresponding Gong.
- 2. Gong sound volume can be adjusted via menu.

3. User can control if microphone triggers Gong sound via menu.

VIII. Background Volume Adjustment

When activating microphone, the previous volume of audio output will change. This is background volume set by the manufacturer. If need to adjust, please perform the following steps:

- 1. Short press MENU button to enter menu list, press Power button/ Playback button to select "Volume Adjustment", after selecting "Volume background", it will pop up background adjustment.
- 2. Rotate VOL knob or short press ► ► button or ◄ ◄ button, adjust to the required volume.
- 3. Press any button, or not pressing any button within 6 seconds, the pop-up will disappear.

IX. Gong Sound Volume Adjustment

When pressing external Gong sound button, related Gong sound will send to passenger area. Gong sound level has been set by manufacturer. If need to adjust, please perform the following steps:

- 1. Short press MENU button to enter menu list, press Power button/ Playback button to select "Volume Adjustment", after selecting "Volume Gong to Passengers", it will pop up Gong sound adjustment.
- 2. Rotate VOL knob or short press ► ► button or ◄ ◄ button, and adjust to the required volume.
- 3. Press any button, or not pressing any button within 6 seconds, the pop-up will disappear.

X. Microphone Gong Sound Operation

When microphone in active, User can select if to output corresponding Gong sound.

- 1. Short press MENU button to enter menu list, press Power button/ Playback button to select "Volume Adjustment", after selecting
- "Microphone Gong Signal ON/OFF", it will pop up Gong sound switch adjustment.
- 2. Rotate VOL knob or short press ► ► button or ◄ ◄ button, user can select to turn on Gong function if under the microphone conditions or not.