

# CONTENTS

## AUDIO SYSTEM

Audio guide .....	4
Technical Terms for Audio Systems.....	5
Functions, Radio .....	7
Radio VR 400 Big Front (RDS) .....	9
Radio VR 300 (RDS).....	11
Radio VR 200 (RDS).....	13
Radio VR 100 (RDS).....	15
Radio with cassette FL/FE .....	16
Radio with CD player FL/FE .....	17
Radio W0837-.....	18
CD-changer .....	20
CD-changer FL/FE.....	21
Speakers.....	22
Speakers FH/FM W0202-, FL/FE.....	24
Radio Aerials, CB Aerials, Aerial kits for mobile phones .....	25
Voltage converter.....	27
Voltage converter / memory.....	28
Extra backup camera sets .....	29



# AUDIO SYSTEM



# AUDIO SYSTEM

## Audio guide



This guide will help you select the correct combination of components so as to ensure that your audio system produces the best possible sound. It will also simplify installation in the various vehicle models.

The components are thoroughly tested and adapted by Volvo to provide excellent audio quality.

Instruction book for radio

<b>Radio VR 100, VR 200, VR 300, VR 400</b>	<b>Part No.</b>
Danish	20146391
Dutch	20146390
English	20146386
Finnish	20146392
French	20146387
German	20146388
Italian	20146393
Polish	20146396
Portuguese	20146394
Russian	20146395
Slovak	20146401
Spanish	20146389
Swedish	20146385

## Technical Terms for Audio Systems

**PRE-SELECT** The pre-select buttons enable you to choose between pre-set stations. They are also used to select the CDs in a separate CD changer.

**RDS (Radio Data System)** The radio automatically finds the most powerful transmitter for the programme you have selected, so you never need to retune during a long journey.

**SEEK** The radio automatically scans the frequency band until it finds the next station and then stays there until you press the Seek button again.

**AF (Automatic Re-tuning)** This AF search function ensures that the unit automatically tunes into the most powerful transmitter for the selected programme.

**TP (Traffic Information Priority)** If you press the TP button, you will receive all traffic information that is broadcast on local channels or nationwide networks with EON. Any bulletins automatically break in, no matter whether you are listening to the radio, a tape or a CD.

**EON (Enhanced Other Network)** Local traffic information on another channel on the national network is automatically received (if the TP function is on), no matter whether you are listening to the radio, a tape or a CD. The system automatically returns to the original channel when the information ends.

**PTY (Programme Type)** Specify the type of programme you wish to listen to and the radio automatically selects this type, without your needing to choose a channel. On most Volvo systems, this information can be programmed and stored. The radio then searches for the desired programme type, no matter whether you are listening to the radio, a tape or a CD, provided that it is being broadcast on the nationwide network or a local channel linked to the network.

**NEWS** If the News button is pressed, there is no danger of missing the news when you are listening to a different channel on a national network. News programmes automatically break in.

**REG (Regional Programme)** If you are listening to a regional programme and want to continue listening to that particular programme, even if you are entering a region where another regional programme is transmitted, press the RND button. "REG ON" will be displayed. If you do not want to listen to a particular regional programme, press the same button again. "REG OFF" will be displayed.

**AUTO STORE** The strongest stations in the area in which you are driving are automatically stored. One quick press on the Auto Store button stores the stations. You do not have to manually search for the right frequencies.

**ONE TOUCH STORAGE** Only one button is to be used when storing.

**AUTO REVERSE** When one side of the tape has finished playing, the second side plays automatically.

**PINCH-OFF** To prevent tangling, the tape is released from the drive mechanism and pressure roller when the cassette player is switched off.

**DOLBY B** A system for reducing noise from cassette tapes recorded using the dolby system.

**REPEAT** Repeats the latest track played on CD or tape.

**NEXT** This is used to skip a track. Simply touch the button and the player will move on to the next station and then stays there until you press the Seek button again.

**RANDOM (RND)** Press the button and the tracks will be played in random order from one or more discs.

**CD-Control** You can control the built in CD player or a separate CD changer in the luggage compartment from the front panel of the radio. **CD-CHANGER** This can be loaded with 6 CD's. You select the CD with the radio's search buttons.

**CD-player** The radio has a built in front-loaded CD player.

**AUTO LOUDNESS** When you turn down the volume, the bass and treble registers are automatically reinforced so that speech and music sound better.

**FADER** Balances the sound between the front and rear speakers.

**ANTI-THEFT CODE** The radio will be blocked as soon as its source of electrical current is broken, for example if someone attempts to steal the unit. It will not be operable again until the factory-programmed, four-digit code has been entered.

**TELEPHONE MUTING** The audio volume is automatically turned down when you use your telephone.

Description	VR 400	VR 300	VR 200	VR 100	CD-CH
FM pre-select	18	18	18	12	
AM pre-select AM=MV+LV	12+6	12+6	12+6	12+6	
RDS, AF, TP, EON, PTY	•	•	•	•	
Autostore	•	•	•	•	
Volume adapted to the vehicle's speed	•				
Alarm, alarm clock	•	•	•		
Timer, switches off after one hour	•	•	•	•	
Port for external navigation system/mobile telephone	•	•	•		

Description	VR 400	VR 300	VR 200	VR 100	CD-CH
Auto reverse	•		•	•	
Fast forward/reverse	•		•	•	
Pinch-off	•		•	•	
Dolby B	•		•	•	
Next/repeat	•		•		
Signal/noise ratio (dB)	55		56		

Description	VR 400	VR 300	VR 200	VR 100	CD-CH
Front-loaded	•	•			
Number of discs	1	1			6
Repeat	•	•			•
Next	•	•			•
Random	•	•			•
Rapid search	•	•			•
Direct disc selection	•	•			•
Auto reload	•	•			
D/A converter	1-bit	1-bit			1-bit
Oversampling	x8	x8			x8

Description	VR 400	VR 300	VR 200	VR 100	CD-CH
Loudness (Auto/man)	auto	auto	auto	man	
Stereo/mono (Auto/man)	auto	auto	auto	auto	
Balance control	•	•	•	•	
Fader control	•	•	•	•	
Separate treble and bass controls	•	•	•		
Power output (W) at 10% distortion (THD)	4x30	4x20	4x20	4x20	
Power output (W) at 1% distortion (THD)	4x18	4x12	4x12	4x12	

Description	VR 400	VR 300	VR 200	VR 100	CD-CH
Anti-theft code	•	•	•	•	
Red LED	•	•	•	•	

Description	VR 400	VR 300	VR 200	VR 100	CD-CH
CD changer	•	•	•		
Low level outlet for external amplifier	•	•	•		
Telephone muting	•	•	•		
Optional remote controller	•	•	•		

Description	VR 400	VR 300	VR 200	VR 100	CD-CH	
Frequency range:	U (FM) MHz Europe <sup>*)</sup>	87.5–108	87.5–108	87.5–108	87.5–108	
	M (AM) kHz Europe <sup>*)</sup>	522–1611	522–1611	522–1611	522–1611	
	L (AM) kHz Europe <sup>*)</sup>	153–279	153–279	153–279	153–279	
Sensitivity:	U (FM) $\mu$ V	1.5	1.5	1.5	1.5	
	M (AM) $\mu$ V	6.5	6.5	6.5	6.5	
	L (AM) $\mu$ V	30	30	30	30	
Output impedance (Ohm):	4	4	4	4		
Operating voltage (V negative earth):	12	12	12	12		
Fuse (A):	15	10	10	10		

<sup>\*)</sup> Other accessible areas: USA, Australia, Japan, Argentina and Saudi Arabia





lower the volume of the radio, CD, or cassette player. It is also possible to search for channels, change tracks on a CD, and fast forward/rewind a cassette using the buttons in the steering wheel.

FH/FM		
FH/FM	Part No.	
Base unit	20928240	2)
Cable harness	20455820	1)
Voltage converter	20724977	11 A
CD-changer	20393840	3)
	3093876	3)
Remote control	20442135	
Rear speaker	20382034	×2
Frontspeaker/Doorspeaker	20382033	×2
Speaker for instrument panel	20551028	×2
Dash tweeter	20453066	×2

<sup>1)</sup> Only for vehicles assembled before W0202.

<sup>2)</sup> Instruction manual to be ordered separately.

<sup>3)</sup> 20393840=CD-changer, 3093876=CD-Magazine.

## Radio VR 300 (RDS)



- 4×20 W (10% THD)
- Built-in single-CD player
- RDS with EON and PTY
- 36 presets (18 FM, 12AM and 6 for LW)
- Automatic storage of stations, (Auto Store)
- Automatic loudness
- Automatic stereo/mono switch
- CD-control of separate CD-changer (6 CDs)
- Extra output for additional. amplifier(s)
- Factory-programmed anti-theft code
- Telephone mute
- Remote control available as an accessory
- Balance control
- Fader
- Separate bass/descant

On vehicles fitted with radio-control buttons in steering wheel, the driver can easily and safely raise or lower the volume of the radio or CD player. It is also possible to search for channels, change tracks on a CD.

FH/FM	Part No.	
Base unit	20928239	2)
Cable harness	20455820	1)

1) Only for vehicles assembled before W0202.

2) Instruction manual to be ordered separately.

3) 20393840=CD-Changer, 3093876=CD-Magazine

FH/FM	Part No.	
Voltage converter	20724977	11 A
CD-changer	20393840	3)
	3093876	3)
Remote control	20442135	
Rear speaker	20382034	×2
Frontspeaker/Doorspeaker	20382033	×2
Speaker for instrument panel	20551028	×2
Dash tweeter	20453066	×2

<sup>1)</sup> Only for vehicles assembled before W0202.

<sup>2)</sup> Instruction manual to be ordered separately.

<sup>3)</sup> 20393840=CD-Changer, 3093876=CD-Magazine

## Radio VR 200 (RDS)



- 4×20 W (10% THD) controlled by logic
- Cassette tape player
- RDS with EON and PTY
- 36 presets (18 FM, 12 AM and 6 for LW)
- Automatic storage of stations, (Auto Store)
- Automatic loudness
- Automatic stereo/mono switch
- Logic-controlled cassette player with automatic tape turning
- CD-control of separate CD-changer (6 CDs)
- Extra output for additional amplifier(s)
- Factory-programmed anti-theft code
- Telephone mute
- Remote control available as an accessory
- Balance control
- Fader
- Separate bass/descant
- Dolby B

On vehicles fitted with radio-control buttons in steering wheel, the driver can easily and safely raise or lower the volume of the radio, CD, or cassette player. It is also possible to search for channels, change tracks on a CD, and fast forward/rewind a cassette using the buttons in the steering wheel.

<b>FH/FM</b>	<b>Part No.</b>	
Base unit	20928236	2)
Cable harness	20455820	1)
Voltage converter	20724977	11 A
CD-changer	20393840	3)
	3093876	3)
Remote control	20442135	
Rear speaker	20382034	×2
Frontspeaker/Doorspeaker	20382033	×2
Speaker for instrument panel	20551028	×2
Dash tweeter	20453066	×2

<sup>1)</sup> *Only for vehicles assembled before W0202*

<sup>2)</sup> *Instruction manual to be ordered sepapately.*

<sup>3)</sup> *20393840=CD-Changer, 3093876=CD-Magazine*

## Radio VR 100 (RDS)



- 4×20 W (10% THD)
- Cassette tape player
- RDS with EON and PTY
- 36 presets (12 FM, 12 AM and 6 for LW)
- Automatic storage of stations, (Auto Store)
- Factory-programmed anti-theft code
- Balance control
- Fader
- Separate bass/descant
- Manuell Loudness

FH/FM	Part No.	
Base unit	20928235	2)
Cable harness	20455820	1)
Voltage converter	20724977	11 A
CD-changer	20393840	3)
	3093876	
Rear speaker	20382034	×2
Frontspeaker/Doorspeaker	20382033	×2
Speaker for instrument panel	20551028	×2
Dash tweeter	20453066	×2

1) Only for vehicles assembled before W0202

2) Instruction manual to be ordered sepapately.

3) 20393840=CD-Changer, 3093876=CD-Magazine

## Radio with cassette FL/FE



- User-friendly audio system with excellent sound reproduction
- Radio unit with anti-theft code
- Traffic messages always come through, which makes it easier for the driver to plan the route

The radio unit with cassette player is installed in the middle of the instrument panel. There is a 20W loudspeaker on each side above the doors.

On the radio unit, the driver can adjust the volume, select the Mute function and switch between set channels or search for different radio stations. The cassette player features auto-reverse and has fast-forward and fast-reverse.

The radio features RDS. The preset station is maintained when the frequency changes. The selected radio station is shown in the unit's display and also in the driver information display.

The driver never risks missing important traffic information since the unit automatically cuts in with traffic news.

Remote control is available as an option.

Description	Suitable for	Part No.
Radio with cassette	FL, FE	20747303



## Radio with CD player FL/FE



- User-friendly audio system with excellent sound reproduction
- Radio unit with anti-theft code
- Traffic messages always come through, which makes it easier for the driver to plan the route

The radio unit with CD player is installed in the middle of the instrument panel. There is a 20 W loud-speaker on each side above the doors.

On the radio unit, the driver can adjust the volume, select the Mute function, switch channels, search for new channels and switch CD tracks.

The radio features RDS. The preset station is maintained when the frequency changes. The selected radio station or CD track is shown in the unit's display and also in the driver information display.

The driver never risks missing important traffic information since the unit automatically cuts in with traffic news.

Remote control is available as an option.

Description	Suitable for	Part No.
Radio with CD player	FL, FE	20747301

## Radio W0837-



Volvo's audio systems have been developed and optimised specifically for Volvo's trucks. They are integrated into the vehicle, which means that several functions can be linked together in an easy to operate and safe way.

Two variants are available as accessories:

- BASE Radio - Audio system with basic functions. Features a radio and CD player
- MID Radio - Audio system with better sound quality; it also plays MP3 and WMA files from CD.

Instruction books are available in 9 languages, see list below. Please bare in mind that these must be ordered separately.

### BASE Radio

Description	Suitable for	Part No.
BASE Radio	FH/FM, w0837-	21260576
	FL/FE, w0837-	21260577
Software BASE *) **)	FH/FM, w0837-	85119902
	FL/FE, w0837-	85113238

\*) AUD-PK (preparation kit) or AUD-CDB is a required for installation.

\*\*) Program MID 206 after installation.

Description	Suitable for	Part No.
MID Radio	FH/FM, w0837-	21338998
Radio Accessories kit *)	FH/FM, w0837-	21219740
Software MID **) ***)	FH/FM, w0837-	85115150
MID Radio	FL/FE, w0837-	21338999
USB/AUX cables incl. connector	FL/FE, w0837-	21320978
Storage box for radio MID USB connector	FL/FE, w0837-	82100248
Software MID **) ***)	FL/FE, w0837-	85113237

\*) Including USB/AUX panel, USB cable, AUX cable, cable tie.

\*\*) Variant AUD-PK (preparation kit) or AUD-CDB is a required for installation.

\*\*) Program MID 206 after installation.

Language	Part No.	
	FM/FH	FL/FE
Swedish	20162988	20163203
German	20162966	20163184
English	20158747	20163161
Spanish	20162968	20163186
Finnish	20162969	20163187
French	20162970	20163188
Italian	20162974	20163191
Dutch	20162979	20163194
Portuguese	20162982	20163197

## CD-changer



- The CD-changer is connected to radios equipped with a CD input. It is operated via the CD controls integrated into the radio unit itself
- The CD-changer has a magazine that takes 6 discs, giving uninterrupted play for more than 6 hours
- Direct selection
- Random play – Random track selection. Can be selected on 1–6 CD
- Scan – Provides a short sample (approx. 10 seconds) of each track on the current CD
- Disc Scan – Provides a short sample of the first track on each CD
- Search – Forwards and backwards

Technical specifications	
Size	262×68×162 mm
Distortion	0.03%
Signal to noise ratio	100 dB

Description	Suitable for	Part No.
CD-changer, 6 discs <sup>1)</sup>	Radio VR-400/300/200	20393840 <sup>2)</sup>
		3093876

<sup>1)</sup> Including installation kit

<sup>2)</sup> 20393840=CD-Changer, 3093876=CD-Magazine

## CD-changer FL/FE



- User-friendly audio system with excellent sound reproduction
- Programmable CD changer with space for five discs  
(To be used with radio part no 20747301)

The CD changer is fitted above the windscreen on the driver side. The CD changer has space for five discs. It is programmable so the driver can make his or her own play lists or let the unit select tracks randomly.

Description	Suitable for	Part No.
CD-changer	Radio 20747301/2074303	20944099

*If a CD-changer is ordered a 15A-voltage converter (20859037) must be installed in the truck.*

## Speakers



- Adapted to Volvo's high acoustic and electrical requirements
- High moisture resistance
- Low temperature sensitivity
- Excellent vibration resistance

The speaker's membrane is made of particularly moisture-resistant impregnated paper, which is why the speakers withstand moist conditions. They work within a temperature range of  $-20^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  with unimpaired sound quality. The speakers are also tested to ensure that they withstand the vibration which may arise in a car, while retaining their acoustic properties.

**Nominal output:** the electrical output which the speakers withstand upon continuous load for 96 hours without any impairment of sound quality. For a shorter period, the speakers can withstand considerably higher outputs.

**Impedance** applies with a tolerance of  $\pm 1.4 \text{ W}$  at 1000 Hz.

1. –
2. –
3. Front, wide band double cone 4"
4. Rear and door speakers, double cone 5"
5. Rear and door speakers, coaxial 5" – "dome tweeter"
6. Instrument panel speaker, single cone 3.5"
7. Instrument panel, coaxial
8. Door, woofer
9. Rear

No.	Nom. output	Impedance	Frequency range	Suitable for	Part No.
3.	25 W	8 $\Omega$	50–15000 Hz	FL4/6, FLC	1384504
4.	25 W	8 $\Omega$	50–15000 Hz	FH, FL7/10/12 F10/12/16	1) 3533185
	25 W	4 $\Omega$	50–15000 Hz	FL7/10/12 F10/12/16	1) 1362244
5.	40 W	8 $\Omega$	40–20000 Hz	FH/FM FL7/10/12, FL	1) 1079049
	30 W	4 $\Omega$	40–20000 Hz	FH/FM FL7/10/12	1) 3986388
6.	15 W	4 $\Omega$	90–15000 Hz	FH/FM	2) 1096968
	12,5 W	8 $\Omega$	170–20000 Hz		20382083
7.	12,5 W	8 $\Omega$	170–20000 Hz	FH/FM W0020–	20382083
8.	20 W	8 $\Omega$	85–5000 Hz	FH/FM W0020–	20382081
9.	10 W	16 $\Omega$	95–15000 Hz	FH/FM W0020–	20382127

<sup>1)</sup> For mounting in rear wall in FH/FM-trucks the following additional items are required: 8141542 (grid), 8143364 (rim), 8189083 (support).

<sup>2)</sup> The FH/FM-truck is prewired for six speakers. Two in the instrument panel, two in the doors and two in the bunk area. The instrument panel and door panel speakers are connected in parallel. Fader balances sound between instrumentpanel/door speakers and rear speaker in bunk area. The speakers can be optionally combined. If only two speakers are to be installed, we recommend they are put in the doors.

## Speakers FH/FM W0202-, FL/FE



- Excellent vibration resistance
- Adapted to Volvo's high acoustic and electrical requirements
- High moisture resistance

A new series of loudspeakers have been developed for Volvo's new audio units. The improved quality of the speakers, together with their new installation, results in a completely new sound experience. The design is adapted for the FH/FM W0202- to provide a new overall impression in the cab.

### Range of uses:

Base level: Loudspeakers in the dashboard and tweeters.

Supplement 1: Door-mounted loudspeakers – for fuller sound with more bass.

Supplement 2: Loudspeaker above the bed – to best utilise the radio's sound characteristics and for even fuller sound.

FH/FM W0202-	Nom. output	Impedance	Frequency range	Part No.
Dash tweeter	30 W	4 Ω	10000–25000 Hz	20453066
Dashboard	15 W	8 Ω	100–15000 Hz	20374399
Doors	17,5 W	8 Ω	40–1000 Hz	20382033
Above the bed	9 W	16 Ω	60–20000 Hz	20382034

### Speakers FL/FE

Adapted to be fitted in the roof area. High acoustic properties.

FL/FE	Nom. output	Impedance	Frequency range	Part No.	
Roof	20 W	4 Ω	20–20000 Hz	25376169	+ 4x 20731510



## Radio Aerials, CB Aerials, Aerial kits for mobile phones



### Radio aerials

Aerial type		Suitable for	Length	Frequency range	Material	Thread	Part No.
1.	1/4 wave aerial with bottom spring.	All radios and truck models excl. Globetrotter XL	756 mm	87-108 MHz	<i>R</i> : Stainless steel, <i>B</i> : LD polyethylene.	M6	1128640
2.	1/4 wave aerial without bottom spring.	All radios and truck models excl. Globetrotter XL	675 mm	87-108 MHz	<i>C</i> : Copper 32xØ0.2, <i>R</i> : Black fibre-glass reinforced polyester, <i>B</i> : LD polyethylene.	M6	1586621
5.	Short 1/4 wave aerial with bottom coil.	All radios and truck models incl. Globetrotter XL	378 mm	87-108 MHz	<i>C</i> : Steel wire, <i>R</i> : Acetyl plastic, <i>B</i> : LD polyethylene.	M6	1083597

*B* = Boss

*C* = Conductor

*R* = Rod

The radio aerials are specially designed for Volvo radios to ensure the best possible reception.

## CB-radio aerial

Aerial type		Suitable for	Length	Frequency range	Material	Thread	Part No.
3.	Short 1/4 wave aerial for CB radio with factory-tuned top coil and bottom coil.	Not recommended for Globetrotter XL cab. (3198765 is recommended).	600 mm	27 MHz	Stainless steel	M6	1129561
4.	Short 1/4 wave aerial with base loading coil.	All truck models, incl Globetrotter XL cab.	380 mm	27 MHz	<i>Conductor:</i> Steel wire <i>Whip:</i> Acetal plastic <i>Knob:</i> LD polythene	M6	3198765

The mobile phone aerial kits are available in versions for the NMT 450/900 and GSM networks. All the aerials are specially designed for installation in Volvo trucks, with simple fitting in existing attachments.

## Aerial kit for Dual Band GSM/DCS

Aerial type		Suitable for	Length	Frequency range	Part No.
6.	Dual Band aerial kit. Aerial attachment with rotating nipple (FME-contact) and 5 m of cable.	GSM/DCS	56 mm	890-960/ 1710-1880 MHz	20409310
7.	Dual Band Aerial, black.	GSM/DCS Fits Dual Band aerial attachment	56 mm	890-960/ 1710-1880 MHz	20375016

## Aerial kit for NMT 900

Aerial type		Suitable for	Length	Material	Part No.
10.	Aerial kit. Aerial attachment with rotating nipple and 5 metres of cable. BMC connector for rotating nipple.	NMT 900	275 mm	Colinear aerial of stainless steel.	1080925
11.	Aerial	NMT 900 For the F, FL and FH/FM Series with standard-fit aerial attachments for CB radios.	275 mm	Colinear aerial of stainless steel, black.	1080830

## Voltage converter



- Does not radiate heat which might damage the radio or other equipment
- Current limiter to protect electric equipment
- Short-circuit proof
- Fool-proof connection

The Volvo voltage converter converts voltage from 24 V to 14 V through induction. By using this method, it is ensured that no unnecessary energy is developed in the form of heat. This protects other sensitive electrical equipment in the vehicle. The majority of the simpler and cheaper voltage converters use a resistor connection and “burn up” energy during conversion, resulting in powerful heat generation. Induction is a much safer method of voltage conversion.

All voltage converters have a cutout to prevent damage to the radios, and they are also protected from short circuiting.

Converter should be chosen when the amplifier or other types of extra 14 V consumers are connected or whenever more than one 14 V consumers is installed.

Description		FLC, FL6	FL7/10/12	NL10/12	F10/12/16	FH/FM/FL
Voltage converter	11 A	20555710	20555710	20555710	20555710	20555710
	20 A	20555707	20555707	20555707	20555707	20555707
Adapter plate		24425174	<sup>1)</sup> 24425174	24425174	24425174	24425174
Cable harness		3944409		3963539	3963539	

<sup>1)</sup> Only for vehicles assembled before W0409

### FL/FE

The Volvo voltage converter converts voltage from 24V to 12 V with limited heat development. A compact converter mounted in the radio shelf. The converter 15A is required for a CD changer installation.

Description	Suitable for	Part No
Voltage converter 10A/15A	FL/FE	20859037

## Voltage converter / memory



- Supplies current to backup memory for radio/cassette player even when the vehicle's main switch is turned off
- The radio's pre-set stations are retained in memory
- The radio's anti-theft code does not have to be entered every time the main switch is turned on
- Excellent fire-safety properties
- Not allowed on ADR vehicles

This voltage converter is intended for installation in combination with a radio/ cassette player to offer a steady supply of current. It supplies current to the radio's backup memory so that all pre-set stations are retained even if the current supply is interrupted via the main switch.

If the stereo set features an anti-theft code, this code does not have to be reentered every time the main switch is turned off.

The current is limited and only supplies the backup memory with power; it is not sufficient to power the stereo unit itself. When the main switch is turned on, current is supplied via the standard voltage converter. Since current is converted through transformation, no unnecessary heat is radiated and the product is therefore safe from the point of view of fire risk.

Description	Suitable for	Part No.
Voltage converter/memory	FL6/7/10/12, FLC, F10/12/16, N10/12, FH <sup>*)</sup>	1088609

<sup>\*)</sup> Only necessary when a main cutout switch is fitted.

## Extra backup camera sets



- Can be mounted on trucks as dead-angle camera or front look-down camera
- Multidirectional, very easy to set up
- Heated camera lens prevents fogging and condensation
- Full colour image
- Selector switch mounted in dashboard
- Only suitable for trucks that already have a factory mounted backup camera system

For additional safety, the factory mounted backup camera system can be completed with additional cameras that offer extra visibility to the side (dead-angle) and the front (look-down) of the truck. The full colour images are displayed on the central display which is built in to the dashboard. The driver can choose which camera image should be displayed by a selector switch which is mounted on the dashboard.

If you add a second camera on your truck you need to order the camera extension set. To install a third camera, the additional camera set is required.

**Camera extension Set:** Kit containing the selector switch with wiring and a camera including all mounting details and instructions.

**Additional camera set:** Kit containing a camera including all mounting details.

Description	Part No.
Additional camera set, Rigid	21041064
Additional camera set, Tractor	21041065