Philips Car Systems

DCC 822

Operating instructions
Mode d´emploi
Bedienungsanleitung
Gebruiksaanwijzing
Istruzioni d´uso

TUNER/DCC
COMBINATION

PHILIPS

SECURITY

For theft protection this set is provided with the following security features:

1. DETACHABLE FRONT

- Always take the detachable front with you when leaving the car. Keep it in its protective case.
- For safety reasons, always replace the detachable front before starting to drive.
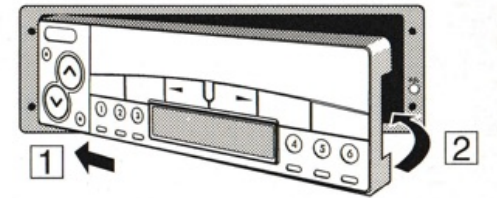
REMOVING FRONT

1. Press the release key.
2. Remove the front.
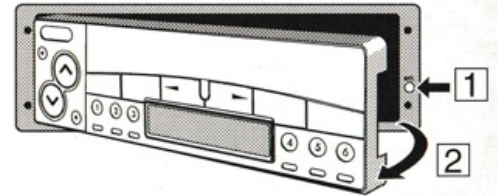
REPLACING FRONT

1. Insert front starting with the left-hand side of the set.
2. Push the front until it clicks into position.

Cleaning connectors for detachable front:
To ensure good connection between the set and the detachable part, it is advisable to clean the connectors with a cotton swab from time to time.

2. SWITCHABLE WARNING LED

When the detachable front is removed, the red LED flashes to indicate that the set is protected.

- You can stop, or start, the LED from flashing by pressing the switch (X) on the set for at least 2 seconds (the set must be connected according to the 'MOUNTING INSTRUCTI-ONS').
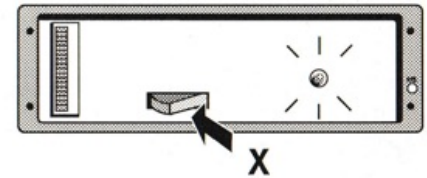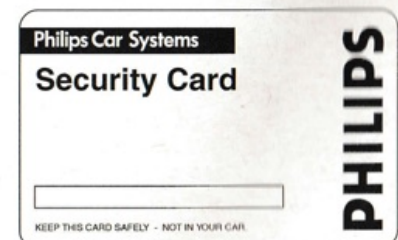
3. SECURITY WARNING STICKERS

- Stick the supplied 'Security' warning stickers on your car windows.

4. IDENTIFICATION NUMBER

This set has a unique identification number (stated on the 'Security card').

- Remove the 'Security card' before installing the set.

Philips Car Systems

protected by
protégé par
geschützt durch
beveiligd door
protegido por
protetto da
skyddas av
suo jannut

SECURITY

SECURITE

PHILIPS

Philips Car Systems
Security Card

PHILIPS

KEEP THIS CARD SAFELY - NOT IN YOUR CAR

```
    a                    b
    |                    |
 ┌─────────────────────────────┐
 │   EUROPE           NEWS │
 │                     TA  │
 └─────────────────────────────┘
                          |
                          c
```
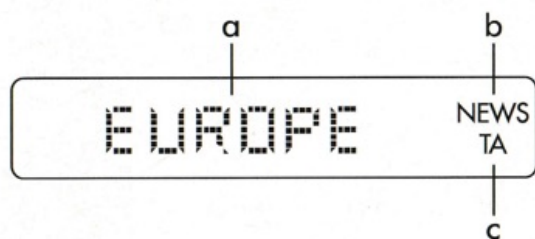
(a) Information concerning function: 12 digit alphanumeric display for Radio, DCC, Analog Compact Cassette, CD changer, Audio setting or Initialisation.

(b) NEWS: Radio is in NEWS mode to give priority to News bulletins.

(c) TA: Radio is in TA mode to give priority to Traffic Announcements.

CLOCK

This set incorporates a clock. You can choose between 12 hour or 24 hour format. See 'INITIALISATION', option 'TIME'.

DISPLAYING THE TIME

• Briefly press the DISP key to switch to time display.
  – The display shows the time e.g. 'CLOCK 16:04'.

Note: Clock display is possible only in tuner mode.

SETTING THE CORRECT TIME

Time setting is only possible in tuner mode. If you select 'RDS CLK **ON**' in the 'INIT' mode, the time is updated automatically by RDS stations (not in all countries). Setting the time manually is not necessaray then. See 'INITIALISATION'.

1 Press the DISP key until you hear a beep.
2 Press the ◄ or ► key to adjust the time. Keeping the key pressed changes the time quickly.
3 Press the DISP key until you hear a beep.
  – The clock starts operating from the selected time.

ILLUMINATION COLOUR

The illumination colour used for the set's display and keys can be changed to match the dashboard of your car. Adjustment of the illumination colour see 'INITIALISATION', option 'COLOR'.

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ON/OFF, VOLUME, SOURCE SELECTION ...

ON/OFF – POWER

• Press the POWER key to switch the set on or off.

VOLUME – ∧ / ∨

• Press the ∧ key or ∨ key to adjust the volume.
  (Keeping the key pressed adjusts the volume quickly.)
    – The display briefly shows the volume level, for example 'VOLUME 23'

AUDIO MUTE (Silence)

If you want to receive Traffic Announcements and/or News bulletins and yet you want to have silence in the car:

1. Switch on the TA mode (see 'TRAFFIC INFORMATION ON FM') and / or switch on the NEWS mode (see 'NEWS BULLETINS ON FM'.)

2. Press the ∨ key until the display shows 'MUTE'.

3. To cancel mute, press the ∧ key to increase the volume.

TELEPHONE MUTE

Certain car telephones can automatically interrupt the set's audio output. The display shows 'PHONE' when the phone is in use. See 'MOUNTING INSTRUCTIONS'.

SOURCE SELECTION – SRC

• Briefly press the SRC key one or more times to select the desired source:

Display	Source	Remarks
TUNER	radio	
TAPE	Digital or Analog Compact Cassette	if Digital or Analog Compact Cassette is inserted
CHANGER	CD changer	if connected
AUX	external portable player	if selected in 'INIT' mode (see 'INITIALISATION')

TREBLE / BASS / FADER / BALANCE

The ∨ and ∧ keys normally function as volume control. These keys become the controls for Treble, Bass, Fader or Balance when you select the relevant audio mode. After use, the function of the keys returns to volume control (after about 10 seconds).

1 Select desired audio mode:

Key	Brief press	Long press
TRE/FAD	Treble	Fader
BAS/BAL	Bass	Balance

2 Press the ∨ or ∧ key to make the desired setting:

	Treble (high notes)	Bass (low notes)	Fader	Balance
Display	TREBLE	BASS	FADER	BALANCE
Maximum (∧ key)	+ 7	+ 7	- - 9 (front)	- - 9 (right)
Mid-position	0	0	- 0 -	- 0 -
Minimum (∨ key)	- 7	- 7	9 - - (rear)	9 - - (left)

AUDIO SUPER CONTROL – Independent bass / treble settings

The bass and treble settings are stored independently for the following sound sources:
- The radio bands
- Traffic Announcements / News bulletins / Emergency announcements on FM (setting only possible during an Announcement)
- Digital and Analog Compact Cassette (DCC / ACC)
- CD changer / AUX (if connected).

• Set your own bass and treble preferences while using these sources.

LOUDNESS – LOUD

If desired you can switch on loudness to increase the low notes at low volume settings.
• Briefly press the LOUD key to switch loudness on or off.
  - The display briefly shows 'LOUDNESS ON' or 'LOUDNESS OFF'.

AUDIO-RESET – RESET

You can reset the treble, bass, fader and balance settings of all sources to their mid-positions.
• Press the RST key for at least 2 seconds until you hear a beep.
  - The display briefly shows 'AUDIO RESET'.
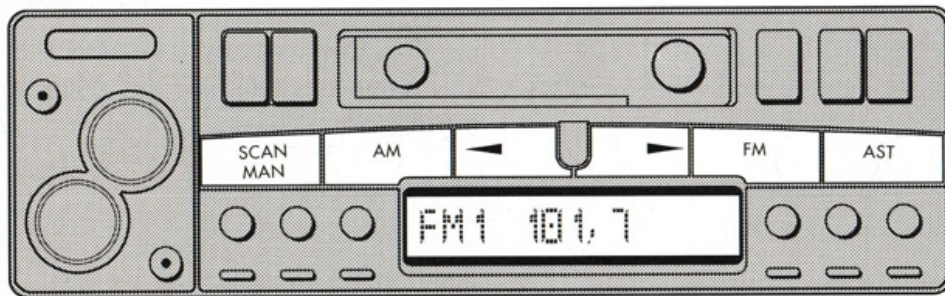
WAVEBAND ...

SELECTING WAVEBAND – AM / FM

• Briefly press the FM key or the AM key to select the desired waveband.

Display	Waveband	Frequency range
FM1, FM2, FM3	FM (VHF)	87.5 – 108 MHz
MW1, MW2 or AM1*, AM2*	Medium Wave	531 – 1629 kHz or 530 – 1710 kHz*
LW*	Long Wave	144 – 288 kHz
SW	Short Wave	5850 – 6250 kHz (49 m band)

* If 'TUNER USA' is selected in the INIT mode, the MW wavebands are replaced by AM. The LW waveband is suppressed. See 'INITIALISATION', option 'TUNER'.

FM1, FM2 and FM3 cover the same frequencies. The same is true for MW1 (AM1) and MW2 (AM2). The extra bands increase the possible number of preset stations.

TUNING TO A STATION

• Tune to a radio station using one of the following methods:
  – Station Memory (on FM only);
  – Search tuning;
  – Manual tuning;
  – Station scan;
  – Recalling a preset station;
  – Auto-Store;
  – Selecting a programme according to Programme type.

SEARCH, MANUAL TUNING

You can use the ◄ and ► keys in two different tuning modes: search or manual tuning. When you switch on the set, it is in **search tuning** mode. You can switch to **manual tuning** mode if desired (see 'MANUAL TUNING').

On FM the ◄ and ► keys are additionally used to access the FM Station Memory (see next page).

FM STATION MEMORY

This set has a Station Memory on FM enabling you to 'leaf through' all RDS stations found at the moment of the last AutoStore or manual update of the Station Memory. All stations are sorted in alphabetical order.

LOADING THE FM STATION MEMORY

To load all receivable RDS stations of the current reception area into the FM Station Memory:
• Press the AST key for at least 2 seconds, until you hear a confirmation beep.
  – The display shows 'FM MEMO'.

The FM Station Memory is updated if you perform an AutoStore (see 'AUTOSTORE'), or you use search tuning (see next page).

LEAF THROUGH THE FM STATION MEMORY – ◄ / ►

• Briefly **tap** the ◄ or ► key one or more times to recall stations from the Station Memory.
  – The display shows the station name of the selected station.

Notes:

If you press the ◄ or ► key for approx. 1 second, the set will perform a normal search.
If no stations are available in the FM Station Memory, pressing the ◄ and ► keys will also perform normal search tuning.

SEARCH TUNING – ◄ / ►

Use search tuning to quickly search for a station.

☐1 Briefly press the ◄ key or ► key for approx. 1 second.
  – ◄ = lower frequency; ► = higher frequency.
  – You will receive a station after a short time.
☐2 To search for another station, press the same key again.

Note: If you have switched on the TA mode, the radio will **only** search for stations allowing the reception of Traffic Announcements. (See 'TRAFFIC INFORMATION ON FM'.)

LOCAL / DX

The set first searches for strong stations only (LOCAL search level). If no station is found after the whole band has been searched, the search level is automatically switched to DX and also weaker stations are accepted.

You can choose between two LOCAL search levels. See 'INITIALISATION', option 'LOCAL'.

MANUAL TUNING AND SCAN

MANUAL TUNING – MAN

Use manual tuning if you know the frequency of the required station.

Switching from search tuning to manual tuning

1. Press the MAN key for at least 2 seconds until you hear a beep.
2. Tune to the desired frequency with the ◄ or ► key.
    - **Fast tuning:** Keep the key pressed.
    - **Step-by-step tuning:** Briefly press the key.

Switching back to search tuning

- Press the MAN key for at least 2 seconds until you hear a beep.

Note: The radio automatically switches back to search tuning mode after about 1 minute.

STATION SCAN – SCAN

The scan function gives you a quick impression of all receivable stations on the current waveband. You hear each station in turn for about 10 seconds.
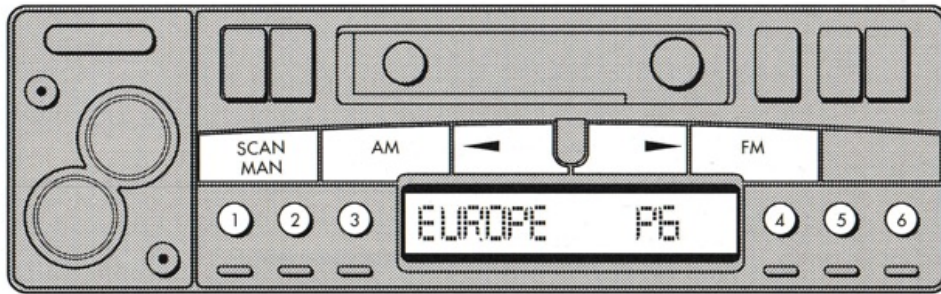
1. Briefly press the SCAN key.
The display shows alternately:
    - 'SCAN' and the waveband (for example 'FM3') and
    - the station-name (or frequency) of the received station.
2. To stop the scan, briefly press the SCAN key again.

STORING STATIONS ON PRESET KEYS

This radio has storage locations for:

18 FM stations:	6 x FM1,	6 x FM2,	6 x FM3
12 MW stations:	6 x MW1,	6 x MW2	
12 AM stations*:	6 x AM1,	6 x AM2	
6 LW stations*:	6 x LW		
6 SW stations:	6 x SW		

* AM replaces MW if 'TUNER USA' is selected in the 'INIT' mode. LW is suppressed. See 'INITIALISATI-ON', option 'TUNER'.

1. Briefly press the FM key or the AM key to select the desired waveband.
   Press the AM key one or more times to select MW1, MW2, LW or SW.
2. Tune-in the desired station (see 'SEARCH TUNING' or 'MANUAL TUNING').
3. Press the desired preset key (1 – 6) **for at least 2 seconds** (until you hear a beep).

RECALLING A PRESET

1. Briefly press the FM key or the AM key to select the desired waveband.
2. Briefly press the desired preset key (1 – 6).
   - The display shows the frequency of the selected station and the preset number. For RDS stations this is followed by the station-name.

⚠ **Display shows 'NO TA' and set bleeps?** The set is in the TA mode but the selected station is too weak or does not broadcast Traffic Announcements (TA).
- Switch OFF the TA mode or tune to another station.

WARNING: Switching from 'TUNER EUROPE' to 'TUNER USA' or vice versa in the INIT mode will erase all previously stored MW and LW stations. See 'INITIALISATION', option 'TUNER'.

AUTOSTORE
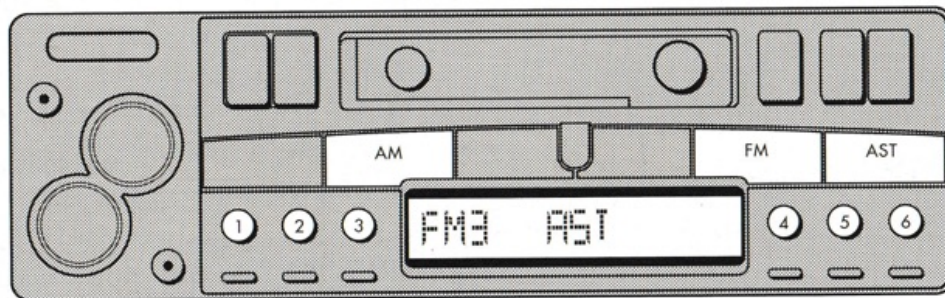
By simply pressing one key you can automatically store six stations on FM (FM3 band) or on MW (MW2 band).

Use Auto-Store to quickly find the strongest stations, for example when travelling through different reception areas.

When you use Auto-Store, the new stations **replace** any stations previously stored on the FM3 band (for FM) or the MW2 band (for MW).

AUTOMATICALLY STORING STATIONS ON PRESET KEYS

1. Select an FM waveband or MW waveband with the FM key or the AM key.
2. Briefly press the AST key.
   - The set gives a beep and then mutes.
   - The display shows for example 'FM3 AST'.
   - The radio stores 6 stations on the FM3 or MW2 band.
   - When it has finished you hear a beep.

Interrupting Auto-Store: If you accidentally press the AST key, you can cancel the Auto-Store function by switching the set **off** and then **on** again before the AST function has been completed.

RECALLING AUTOMATICALLY-STORED STATIONS

1. Select FM3 or MW2 (if not already selected).
2. Use the preset keys (1 – 6).

Notes:

Sometimes it may not be possible to find six stations. In this case, the remaining presets (for example 5 and 6) are programmed with '00.0'.

Auto-Store is not available on LW or SW (the set gives an error beep).

RDS is a system in which inaudible digital information is transmitted in addition to the normal FM radio broadcast. This car radio uses the RDS information to offer you many advantages, including:

- **Display of station-name:** The set displays the name of the station instead of its frequency.
- **Automatic retuning:** The set continuously checks a list of Alternative Frequencies (AF) for the tuned radio station and automatically selects the best frequency for you.
- **Traffic information:** When the TA function is activated, the radio tunes to a station which may broadcast traffic information (TP = Traffic Programme) and receives Traffic Announcements (TA) when broadcast. You can receive Traffic Announcements even when listening to cassette (DCC / ACC) or CD or during audio mute.
- **News bulletins:** When the NEWS function is activated, you can receive News bulletins, even when listening to cassette or CD or during audio mute.
- **Information from related radio stations:** Enhanced Other Networks (EON) is an RDS service where the broadcaster links some stations together. If you are tuned to a station which is linked to others by EON, the set is capable of receiving Traffic Announcements and / or News bulletins from both the tuned station and related stations.
- **Station selection according to programme type:** Using the PTY function, the set can detect and select the type of programme (PTY = Programme Type) being transmitted. For example: News, Sport, Classical music or Pop music.
- **Automatic tracking of RDS regional programmes:** This radio ensures that when listening to a regional programme, the radio will stay tuned to the same regional programme as long as possible.
- **Emergency announcements (PTY Alarm):** This set automatically receives emergency announcements made by the broadcaster using the RDS PTY alarm service. (During the message the display shows 'ALARM' and the station-name alternately).

When an RDS transmission is received, the display shows the station name.

TRAFFIC INFORMATION ON FM – TA
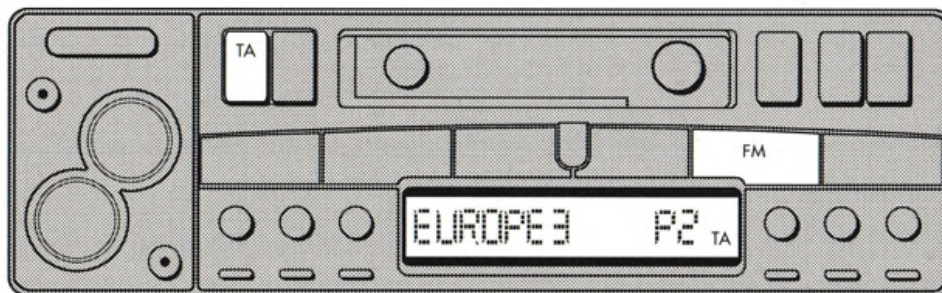
SWITCHING ON TA

1 Select an FM band.

2 Briefly press the TA key. The display shows 'TA'.

If the display shows 'NO TA': The radio was not already tuned to a station enabling the reception of Traffic Announcements. The radio automatically searches until it finds another station.

- You will now hear Traffic Announcements when broadcast.
- When the set receives Traffic Announcements from other stations (linked by EON), the set temporarily shows the name of that station and 'TRAFFIC'.
- Search tuning now only selects stations which enable the reception of Traffic Announcements.

Note: If the radio continuously searches, and you hear **beeps repeated at intervals**, you are in an area where no traffic information is broadcast according to the RDS system. Briefly press the TA key to switch off the TA mode.

SWITCHING OFF TA

- Briefly press the TA key. 'TA' disappears from the display.
  - Traffic Announcements no longer have priority.

Traffic Announcements during cassette / CD playback or MUTE

If you play a DCC / ACC / CD, or mute the set, while the TA mode is switched on (display shows 'TA'), you will still hear Traffic Announcements when broadcast.

Interrupting a Traffic Announcement

If you do not wish to continue listening to a particular Traffic Announcement, you can interrupt it without switching off the TA mode.

- Briefly press the TA key **during the announcement**.

TA AUDIO SETTINGS

You will hear Traffic Announcements at a certain volume level. You can change this volume level if desired, see 'INITIALISATION'. You can adjust bass and treble settings for Traffic Announcements **during an announcement**.

Note: If the tuned station becomes too weak to enable the set to provide the RDS traffic service, you will hear beeps repeated at intervals. Use search tuning to find another station.
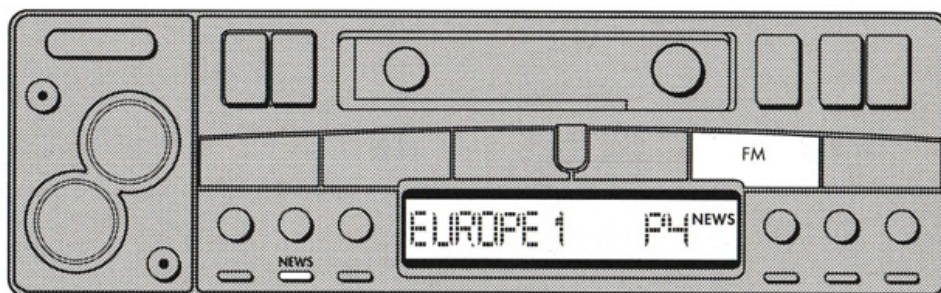
You can **switch on the NEWS mode** to give priority to news bulletins.

Note: PTY NEWS is not yet implemented in all countries.

SWITCHING ON NEWS MODE

1. Select an FM band.
2. Briefly press the NEWS key. The display shows 'NEWS'.
3. Tune to a station which broadcasts PTY NEWS (or a station linked by EON to a station which broadcasts PTY NEWS).

To check if the tuned station broadcasts PTY NEWS

- Briefly press the PTY key during a news bulletin. If 'NEWS' is displayed, this station broadcasts PTY NEWS.
  - You will now hear news bulletins when broadcast.
  - When the set receives a news bulletin broadcast by another station (linked by EON), the set temporarily shows the name of that station.

SWITCHING OFF NEWS MODE

- Briefly press the NEWS key. 'NEWS' disappears from the display.
  - News bulletins no longer have priority.

NEWS during cassette / CD playback or MUTE

If you play a DCC / ACC / CD, or mute the set, while the NEWS mode is switched on (display shows 'NEWS'), you will still hear news bulletins when broadcast.

Interrupting NEWS

If you do not wish to continue listening to a particular news bulletin, you can interrupt it without switching off the NEWS mode.

- Briefly press the NEWS key **during the news bulletin**. ('NEWS' remains on the display). The set returns to cassette / CD playback, audio mute or the originally-tuned radio station.

Note: TA mode has priority over NEWS mode. News bulletins may be interrupted by Traffic Announcements (if the TA mode is switched on).

PROGRAMME TYPE (PTY)
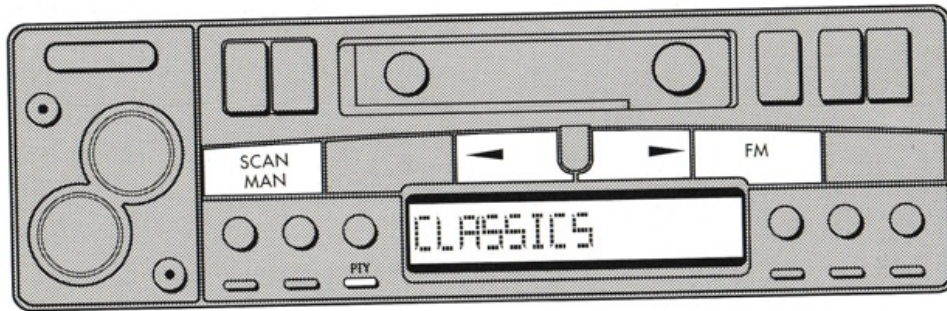
Many RDS stations transmit a 'PTY code' indicating the **type** of programme being broadcast (for example 'news' or 'pop music'). If the programme changes during the day, the broadcaster may also change the PTY code.

You can select stations according to the programme type. This is useful if many stations are available.

Note: PTY is not yet implemented in all countries.

Selecting a programme according to Programme Type (PTY)

1. Tune to an FM station.
2. Briefly press the PTY key.
   - The display shows the programme type of the tuned station for a few seconds (for example 'CLASSICS').
   - If the display shows 'NO PTY', the station does not transmit the programme type.
3. Press the ◄ or ► key to select the desired programme type.

The following are examples of programme types:

Programme type	Display	Programme type	Display
News	NEWS	Varied	VARIED
Current Affairs	AFFAIRS	Pop Music	POP MUSIC
Information	INFO	Rock Music	ROCK MUSIC
Sport	SPORT	M.O.R. (Middle Of the Road) Music	MOR MUSIC
Education	EDUCATE	Light Classical	LIGHT MUSIC
Drama	DRAMA	Serious Classical	CLASSICS
Culture	CULTURE	Other Music	OTHER MUSIC
Science	SCIENCE		

4. Press the SCAN key to start the search for a station with the displayed programme type.

To return to normal operation
- Wait for about 10 seconds, **or**
- Briefly press the PTY key.
   - The display shows the station-name (or frequency) of the last-selected station.
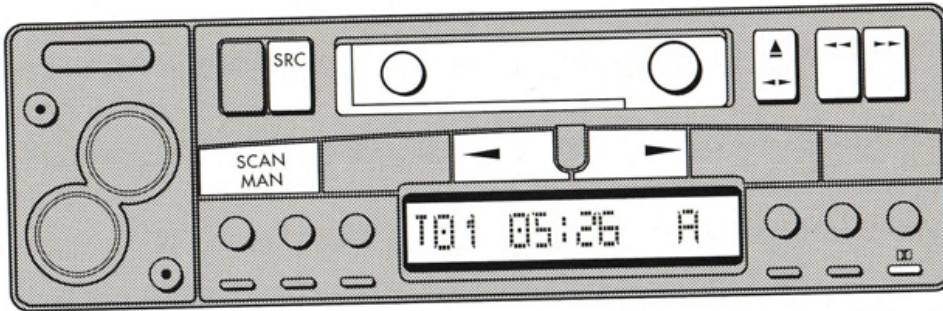
DIGITAL / ANALOG COMPACT CASSETTE PLAYBACK

Slide the DCC with the metal slide facing to the right or the Analog Compact Cassette with the open side to the right smoothly into the cassette opening until it is retracted.

- Cassette playback starts.
- Depending on the type of cassette the display shows:

Type of cassette	Displayed information	Example
Prerecorded* DCC	Text (see 'DCC TEXT MODE')	'PRELUDE'
Super User* DCC (with continuous time code)	Text or track number, elapsed time and cassette side'	'T02 14:26 A'
User* DCC (without time code)	Tape direction	'< DCC' or 'DCC >'
Analog Compact Cassette	Tape direction	'< PLAY' or 'PLAY >'

* for further information on cassette types refer to the instruction manual of your home DCC player

If a DCC or ACC is already inserted:
• Select 'TAPE' by briefly pressing the SRC key one or more times.

DOLBY® B AND C NOISE REDUCTION

• If a Analog Compact Cassette has been recorded using the Dolby B or C NR system, press the ⊡⊡ key once or twice to select the correct type of noise reduction.
   - The display briefly shows 'DOLBY B ON' or 'DOLBY C ON'.
• To switch off the Dolby NR system, press the ⊡⊡ key once or twice, until the display briefly shows 'DOLBY OFF'.

METAL - CHROME

The set automatically adjusts to Metal or Chromium cassettes, when using Analog Compact Cassettes.

Note: Traffic Announcements may interrupt cassette playback if the TA mode is switched on. News bulletins may interrupt cassette playback if the NEWS mode is switched on.

DCC DECK (continued)

REVERSE
- To change the direction of play before the end of the tape, briefly press the ◄► key.

CASSETTE EJECT
- Press the ▲ key for at least 2 seconds.
  - The display shows 'EJECT'. The cassette is ejected.

FAST FORWARD / FAST REWIND
- Briefly press the ◄◄ or the ►► key.
  - For Analog Compact Cassettes and User DCCs the display shows 'FORWARD' or 'REWIND'.
  - For prerecorded DCCs the display shows the track number and the elapsed track time.
  - For Super User DCCs the display shows the track number and the total elapsed time.
- If you want to stop the fast forward / rewind before reaching the end of the tape, briefly press the same key again.

Note: Blank passages on a DCC are detected and skipped automatically. The deck winds to the next track and the display shows 'FORWARD', 'REWIND' or 'NEXT'.

PLAYING NEXT / PREVIOUS TRACKS (DCC)

1. Prerecorded DCCs
- Briefly press the ◄ or ► key one or more times to select the desired track
  - The display briefly shows for example 'T07 > 11 A' if you want to play track 11.
  - Playback resumes starting from the chosen track.
- Briefly press the ◄► key to stop the search.

2. Super User and User DCCs
- Briefly press the ◄ or ► key one or more times to select the desired number of tracks to be skipped.
  - The display shows 'PREV' or 'NEXT' and the number of tracks to be skipped.
  - Playback resumes starting from the chosen track.
- Briefly press the ◄► key to stop the search.

Notes:
The deck automatically changes the tape direction, if the chosen track is on the other side of the DCC.

If you press the ◄ key once after the first 10 seconds of a track, the current track is restarted.

MSS – MUSIC SEARCH SYSTEM (Analog Compact Cassette)

MSS enables you to start playback from the beginning of a silent interval between two tracks on the tape.

- Briefly press the ◄ key or ► key one or more times to select the desired number of tracks to be skipped.
  - The display shows 'PREV' or 'NEXT' and the number of tracks to be skipped.
  - Playback resumes when the track you have selected is reached.
- Briefly press the ◄► key to stop MSS.

SCAN (ACC / DCC)

The scan function enables you to become familiarized with the cassette in a convenient way.

- Press the SCAN key.

The display shows:
  - for ACC / User DCC '< SCAN ' or ' SCAN >', depending on the direction of playback;
  - for Super-User and prerecorded DCCs the track number, 'SCAN' and the cassette side, for example 'T12 SCAN A'.
  - You hear the first 10 seconds of each track.
- To return to normal playback, press the SCAN key again.

Notes for MSS and SCAN (only for Analog Compact Cassettes):

When using Analog Compact Cassettes, use cassettes which have a low noise level in the silent intervals.

Silent intervals have to last between 3 and 5 seconds.

Very soft music passages or intermittent silent intervals found in conversation, news readings etc. may be counted as intervals.

FLEXIBLE SOURCE ACCESS

The set allows you to listen to other sources (TUNER, CD or AUX) during FAST FORWARD / FAST REWIND, NEXT / PREVIOUS and MSS.

- Briefly press the SRC key one ore more times to select the desired source.
  - You hear the desired source.
  - The deck winds to the chosen track or to the end of the tape (for fast forward / rewind) and then gives a beep.
- Briefly press the SRC key one ore more times to select 'TAPE' again.
  - Playback resumes with the chosen track or with the beginning of the tape.

DCC DECK (continued)

DCC TEXT MODE

The DCC deck allows you to read out text information that is recorded with prerecorded or self recorded DCCs (possible with home recorders DCC 730 and DCC 951). Text information on a DCC is displayed in two different ways:

a. **Scroll mode:** In this mode all characters (even special characters) of a text information are read and displayed. The text scrolls over the display.

b. **Fixed mode:** Reduced text information without special characters is read and displayed in this mode. Only the first 12 characters are shown.

If you insert a DCC or you switch to DCC playback, the DCC deck searches for text information during playback. As soon as text is available the current track title is displayed in fixed mode.

READING OUT TEXT INFORMATION

You can read out text information at any time during DCC playback:

1. Briefly press the DISP key one or more times to select the desired text information in fixed mode:

   – Track title –> Artist –> Track number and elapsed track time –> Track title –> ...

2. Press the DISP key for about 2 seconds to read out 'Track title' or 'Artist and Album' in scroll mode (depending on the informatioon selected in fixed mode).

MAINTENANCE OF THE DCC DECK
WARNING!

• **DO NOT** use demagnetizing cassettes. These cassettes **destroy** the digital head of the deck!

• **NEVER** use cassette cleaners other than the **supplied** DCC wet cleaning cassette. Other cleaners may damage the digital head. Pay attention to the instructions on the packaging of the cleaning cassette.

• **DO NOT** use cassette adaptors supplied with / for portables. The digital head might be damaged.

If you play Digital Compact Cassettes only, the deck needs no cleaning, because the DCC tape material has a self-cleaning effect. If you also use regular Analog Compact Cassettes, dust, contamination or grime can accumulate on the digital head dependent on the tape quality and duration of use. This may deteriorate the playback quality, especially with DCCs.

• Use only C60 or C90 Ananolgue Compact Cassettes of good quality to avoid unnecessary contamination and failures.

• Put cassettes back in their boxes immediately after use to protect them from dust and dirt and to prevent the tape from unwinding.

• Never expose cassettes to heat, direct sunlight or moisture.
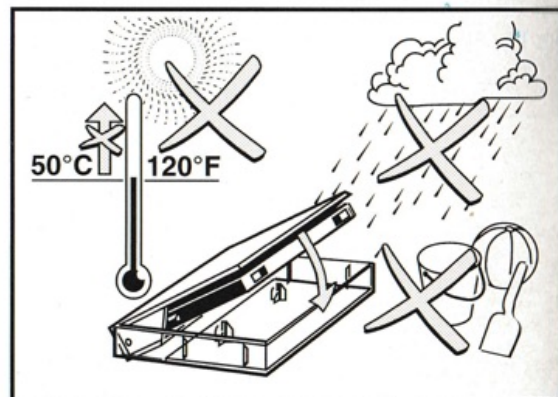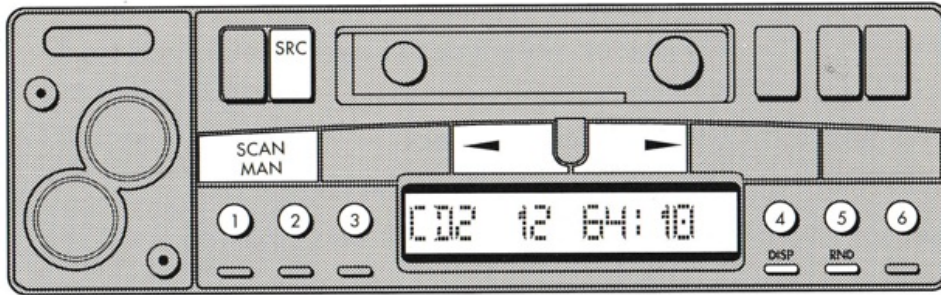
A Philips CD changer (**D²B type**) can be connected to this car radio. See your dealer for more information.

- Check that the magazine is loaded with discs and inserted in the CD changer.

CD PLAYBACK

- Select 'CHANGER' by briefly pressing the SRC key one or more times.

If you want to start playback commencing with a specific disc, you can directly access the disc in the CD changer:

- Press one of the preset keys (1 - 6) to select the desired disc.
  - The display shows the disc number, the total number of tracks and the total playing time (for example 'CD2 14 61:10').
  - The player starts playback, beginning with track 1.
  - The display then shows: the disc number, the current track number and the elapsed time (for example 'CD2 01 05:21').
  - At the end of the disc, playback automatically continues with the next disc. If you have loaded fewer than 6 discs, any missing disc is automatically skipped.

- Briefly press the DISP key, if you want to display the total number of tracks and the total playing time of the current disc.

Notes:

Traffic Announcements may interrupt CD playback if you have switched on the TA mode. (See 'TRAFFIC INFORMATION ON FM'.)

News bulletins may interrupt CD playback if you have switched on the NEWS mode. (See 'NEWS BULLETINS ON FM'.)

If you hear a beep and/or the display shows 'CDx NO DISC' or 'CDx ERROR' (where x is the number of the disc):

- Check that the magazine has been loaded with discs and inserted in the CD changer.
- Check that the discs have been inserted the correct way up.
- Check that you have not inserted a damaged or dirty disc.

If the display shows 'CHANGER FUSE' after you selected the CD changer, you have to contact an authorized dealer or your local Service. See 'European Guarantee' at the end of the booklet.

* optional

CD CHANGER (continued)

PLAYING A SPECIFIC TRACK (NEXT / PREVIOUS)

- Briefly press the ◄ or ► key one or more times to select the desired track (for example 'CD2 T01 > 02').
  - Playback resumes starting from the chosen track.
  - If you want to return quickly to the first track on the current disc:
- Press the preset key (1 - 6) corresponding to the disc being played.

Note: If you press the ◄ key once after the first 5 seconds of a track, the current track is restarted.

FAST FORWARD/BACKWARD

1. To quickly move to another part of the disc during playback, press the ◄ or ► key for at least 2 seconds.
2. Release the key to resume normal playback.

SCAN

The scan function enables you to become familiarized with the disc in a convenient way.

1. Briefly press the SCAN key.
   - The display shows the disc number, the track number being scanned and 'SCAN'.
   - You hear the first 10 seconds of each track.
   - After the last track on the disc has been scanned, the set continues the scan from the first track on the disc.
2. Briefly press the SCAN key again when you hear a track which you like.
   - Normal playback resumes.

RANDOM PLAYBACK

You can play the tracks on the disc in a random order.

1. Press the RND key.
   - The display shows: the disc number, 'R', the track number and the playing time (for example 'CD3R01 10:45').
   - After all the tracks on the disc have been played, Random play continues on the next disc, and so on.
- To resume normal playback, press the RND key again.

Notes:
If you briefly press the ► key, a randomly-selected track will be played.
If you briefly press the ◄ key, the previously played track will be recalled and played.
(The set remembers the track numbers of the last three tracks played.)
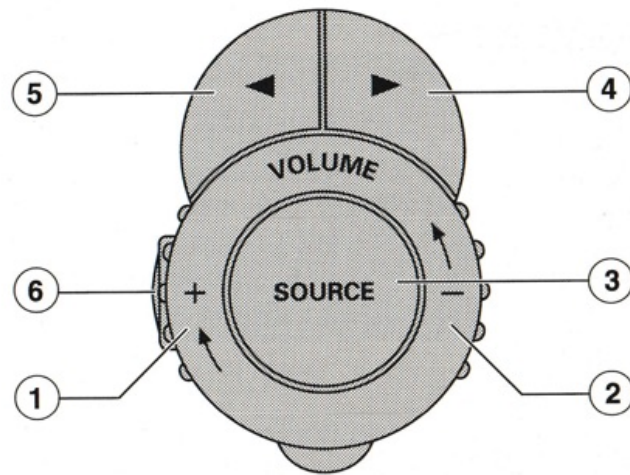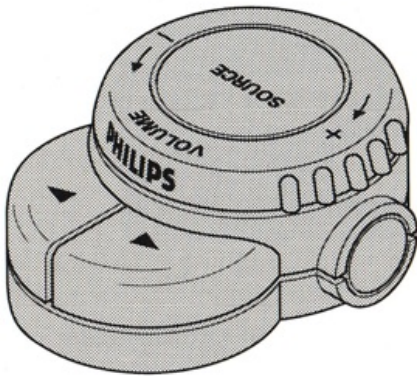
The set provides you to connect a wired remote control EA 2001/00. This remote control allows you to carry out some of the main functions of the radio. The purpose of the remote control is to offer you a means of controlling the set without the need to take your eyes off the road while driving. This gives you increased security. Ease of use is assured thanks to the large buttons and ergonomic design.

For connection and mounting see mounting instructions supplied with the mouse.

The following functions are available:

No	Tuner	DCC deck	CD changer
1	Volume up (rotate clockwise)	Volume up	Volume up
2	Volume down (rotate anti-clockwise)	Volume down	Volume down
3	*short press:* Source selection *long press:* Change waveband	Source selection	Source selection
4	Search functions	*short press:* Next track *long press:* Fast forward	*short press:* Next track *long press:* Fast forward
5	Search functions	*short press:* Previous track *long press:* Fast rewind	*short press:* Previous track *long press:* Fast rewind
6	*short press:* Next preset *long press:* Station scan	*short press:* Reverse (change cassette side) *long press:* Scan (MSS)	*short press:* Next disc *long press:* Scan

* optional

INITIALISATION
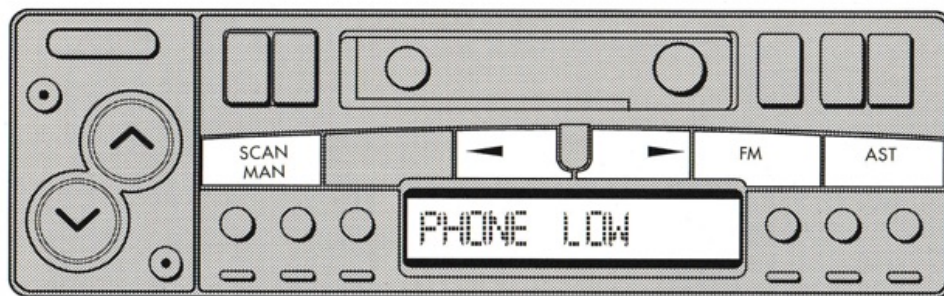
It is possible to modify many of the set's initial settings according to your preferences.

SELECTING PERSONAL SETTINGS

1. Switch on the set.
2. Press the FM key for at least 2 seconds until you hear a beep to enter the 'INIT' mode.
   – The display shows 'INIT'.
3. Press the SCAN key or the AST key one or more times until the option you want to modify is displayed (see list of 'INIT' options).
4. Briefly press the ◄ or ► key one or more times to adjust the choice.
   – The choice shown on the display will be memorized by the set when you select another option or leave the 'INIT' mode.
5. Press the FM key for at least 2 seconds until you hear a beep to leave the 'INIT' mode.

Note: The set automatically leaves the 'INIT' mode about 1 minute after your last operation.

Initial settings (when set leaves factory) are shown in **bold**. If you are unsure of the best choice, choose the factory setting.

Option	Choice	Usage
INPUT	[**CDC**, AUX, PHONE]	Source connected to connector C of the car radio: - Select 'CDC' if connecting a Philips CD changer (D²B type); - Select 'AUX' if connecting a portable audio player; - Select 'PHONE' if connecting a car telephone.
REF	[5 ... **8** ... 23]	Reference volume level of tuner.
TAPE	[-2, -1, **O**, +1, +2]	Volume level of the DCC deck relative to tuner.
CHANGER	[-2, -1, **O**, +1, +2]	Volume level of CD changer relative to tuner
AUX	[-2, -1, **O**, +1, +2]	Volume level of AUX input relative to tuner.
PHONE	[-2, -1, **O**, +1, +2]	Volume level of PHONE input relative to tuner.
TRAFFIC	[-2, -1, **O**, +1, +2]	Volume level of Traffic Announcements and News bulletins relative to tuner.
LCD VIEW	[-1, **O**, +1]	Select the viewing angle of the set's LCD display.
LOCAL	[**O**, +1]	Search level sensitivity: O = all stations; +1 = only strong stations
PHONE	[**NO**, LOW, HIGH]	Select 'LOW' or 'HIGH' according to phone ('LOW' in most cases). Select 'NO' if no phone connected.
BLEEP	[-2, -1, **O**, +1, +2]	Select volume level of confirmation beeps (useful if external amplifier is connected).
TUNER	[**EUROPE**, USA]	Select 'USA' to change MW bands into AM bands and tuning steps from 9 kHz to 10 kHz. LW band is suppressed.
LW*	[OFF, **ON**]	Select 'OFF' to suppress LW band if it is not used.
SW	[OFF, **ON**]	Select 'OFF' to suppress the SW band if it is not used.
TIME	[12 H, **24 H**]	Select desired clock format.
COLOR	[G_____R]	Illumination colour, sliding control.
LOGIC	[**OFF**, ON]	Select 'ON' if you want the set to be switched off automatically one hour after the car ignition is switched off. (See 'MOUNTING INSTRUCTIONS'.)
RDS CLK	[OFF, **ON**]	Select 'OFF' if you don't want the built-in clock to be updated by RDS stations.

* if 'TUNER USA' is selected, LW is suppressed automatically.

NOTES

DEMONSTRATION MODE (FOR THE DEALER)

In this mode the display shows the main features of the set.

Switching ON demo mode:
- **Keep** the Preset 1 and Preset 5 keys **pressed** until you hear a beep.
  - The set remains in the demonstration mode, even if you switch the set off and then on again.

Switching OFF demo mode:
- Follow **exactly** the same procedure as 'Switching ON demo mode'.

ON/OFF LOGIC (AUTOMATIC SWITCH-OFF)

The set incorporates an internal one-hour timer for automatic switch-off. If you connect the set like described in the mounting instructions, paragraph '**1.2 Alternative power supply connection**', the set switches off one hour after you switched it on, when the ignition is switched off. Select 'LOGIC ON' in the 'INIT' mode to activate the one-hour timer.

PREVENTIVE MAINTENANCE

- Do not use lighter fluid or other solvents to clean the front of the set. For cleaning of the front and the display only use a damp cloth.

Cleaning connectors for detachable front

To ensure good connection between the set and the detachable part, it is advisable to clean the connectors with a cotton swab from time to time.

There may be times when you suspect that your car radio is not functioning as you expect it to. Before calling for service please read the operating / mounting instructions and check the following list. You may find that an apparent malfunction can easily be rectified.

Symptoms	Possible Cause / Remedy
General	
Set does not function, No display.	• Check fuse (set and car) and connections.
Set functions but with no or poor sound.	• Adjust volume of set to demute set. • Check fader and balance settings. • If car phone is connected, check setting for 'PHONE' option in 'INIT' mode.
Set mutes when you drive the car or display shows 'PHONE'.	• Set 'PHONE' option to 'NO' in 'INIT' mode and see 'MOUNTING INSTRUCTIONS'.
Detachable front of set feels warm.	Some heat is always generated by the set.
Display shows 'TOO HOT'	A built-in safety circuit prevents the temperature in the set from exceeding a certain level. • Wait until 'TOO HOT' disappears from the display before increasing the volume.
Display scrolls set's specifications.	• Refer to 'DEMONSTRATION MODE' section.
Radio	
Poor radio reception.	• Check that the aerial is fully extended and properly connected.
Display shows 'SEARCH' and station name alternately.	Set is searching for the station. This happens when broadcast is too weak. • Wait until set completes its search.
Display shows frequency (not station name).	Set is tuned to non-RDS station.
Display shows 'PTY ALARM'.	Emergency announcement (PTY Alarm) is being broadcast.
Unable to tune to desired station with Search tuning	The desired station is too weak. • Repeat Search tuning with local search level 0. • Tune to desired station using Manual tuning. • Check that the aerial is fully extended. Set is in TA mode: only stations with Traffic Announcements can be tuned in. • If necessary switch OFF the TA mode.
Display shows 'NO TA' and set bleeps.	Set is in TA mode but the selected station is too weak or does not broadcast Traffic Announcements (TA). • Switch OFF the TA mode or tune to another station.
DCC/ Analog Compact Cassette	
DCC playback is interrupted by mutes or ACC playback lacks high-notes.	• Clean DCC tape head (see 'DCC DECK').
Cassette mechanism changes direction of play before end of tape.	• Rewind cassette to the end of the tape.
CD Changer	
Display shows 'NO DISC' or 'CD ERROR'.	No CD inserted, or CD inserted upside-down or damaged or dirty or of the wrong type.
Distorted sound during playback.	Player unable to read disc. CD damaged or dirty.
Display shows 'CHANGER FUSE'.	• Contact an authorized Philips service

If you still have to send your set for service, always send the complete set (with detachable front). Do not try to open the set to service it yourself.

MOUNTING INSTRUCTIONS (see pages 3 - 4)

AERIAL

Good reception is only possible with a good aerial. Position the aerial as far as possible from the ignition assembly. The aerial earthing bar or strap must contact clean metal. Protect this contact against corrosion with silicone grease or another rust preventer.

ADAPTOR CABLES

Specific adaptor cables (which simplify connection of the set) are available for many cars. Refer to the table at the end of this booklet. Contact your dealer for further information.

1. POWER SUPPLY

Voltage and polarity: The set must be connected to a 12 V car battery with negative terminal to earth (car chassis).

* Use the same earthing point for the radio and all other audio equipment (to minimize interference).

Possible connecting points for a **permanent** 12 V supply:
- the supply lead for the car-interior lighting;
- the supply lead for the clock; or
- a contact in the fuse-box with permanent voltage.

This supply is needed for the set's memory. It also ensures that a CD changer functions correctly.
This voltage must never be interrupted, even when starting or switching off the engine.

Possible connecting points for a **switched** 12 V supply:
- the 12 V lead provided by the car manufacturer for the radio; or
- the accessory contact of the ignition switch.

⚠ **WARNING: To prevent short-circuiting, disconnect the negative car battery terminal until the set has been mounted and connected.**

PREPARING CONNECTOR A

* Always make sure that the red supply lead [A7] is connected to a connecting point which is capable of supplying a current of at least 10 Amperes.

1.1 Power supply connections
1. **BROWN** lead [A8]: Connect to an earthing point on the car body.
2. **RED** lead [A7]: Connect to a **switched** 12 V supply (10 A min.).
3. **YELLOW/RED** lead [A4]: Connect to a **permanent** 12 V supply.

Note: You cannot stop the flashing of the warning LED when connecting the set this way.

1.2 Alternative power supply connections (for 'ON/OFF LOGIC')

Connect the power supply this way to use the 'ON/OFF LOGIC' feature. Certain VW and Opel/Vauxhall cars are already prepared for this connection). Consult your car service manual or check with your dealer to confirm this. See illustration for correct connection.

1. **BROWN** lead [A8]: Connect to an earthing point on the car body.
2. **RED** lead [A7]: Connect to a **permanent** 12 V supply (10 A min.)
3. **YELLOW/RED** lead [A4]: Connect to a **switched** 12 V supply.
4. See 'NOTES', paragraph 'ON/OFF LOGIC' for further information.

OPTIONAL CONNECTIONS

1.3 Electronic/motor aerial: Connect the supply for an electronic aerial or the control lead for the relay of an automatic motor aerial to pin [A5]. Use the small contact supplied.

Do not use this connection point for direct supply of the aerial motor!

You can also use this pin for remote on / off of optional power amlipfiers.

1.4 Pilot light: When the car headlamps are switched on, the on/off control of the radio is illuminated (even when the radio is switched off). Connect pin [A6] to the dashboard illumination wiring of your car. Use the small contact supplied.

1.5 Telephone mute: If your car telephone provides a mute signal, it can be used to automatically interrupt the set's audio output. Connect the telephone mute wire to connector [A1]. Use the small contact supplied.

Refer to 'INITIALISATION'. Select option 'PHONE' and choose 'LOW' or 'HIGH' according to your telephone mute signal. (In most cases this is 'LOW'.)

Note: In certain VW and Opel/Vauxhall cars, the connector [A1] is used as a speed-dependent volume control (GALA). Ask your authorized VW or Opel/Vauxhall dealer to modify this connection if you want to use the telephone mute feature.

1.6 Mouse: An optional mouse (EA 2001/00) for remote control of the set can be connected to pins [A2] and [A3]. See mounting instructions supplied with the mouse.

MOUNTING INSTRUCTIONS (continued)

PREPARING CONNECTOR B (FOR LOUDSPEAKERS)

- Only use loudspeakers which have an impedance of 4 ohms.
- Ensure that the loudspeakers are connected in phase by using marked speaker terminals for the phase (+) connections.
- Do not connect any of the loudspeaker leads to earth!
- Do not connect a booster/amplifier directly to the loudspeaker outputs!
- Do not connect loudspeakers via an external fader!

2.1 Connecting the loudspeakers (see illustration) 4 x [LS]

1 = Rear Right phase (RR +)	2 = Rear Right return (RR −)
3 = Front Right phase (FR +)	4 = Front Right return (FR −)
5 = Front Left phase (FL +)	6 = Front Left return (FL −)
7 = Rear Left phase (RL +)	8 = Rear Left return (RL −)

PREPARING CONNECTOR C

2.2 CD CHANGER: You can connect a CD changer (**D^2B type**) to this set (see the mounting instructions for the CD changer).

2.3 PORTABLE CD PLAYER: To increase your listening possibilities you can connect a portable CD player to this set (in place of a CD changer). Use the cable mentioned in the illustration. The cable must be connected to an output of 750 mV (in most cases the headphone output of the portable player is suitable).

[1] Select option 'INPUT' in the 'INIT' mode and set the choice to 'AUX' as described under 'INITIALISATION'. This indicates to the set that a portable CD player is connected instead of a CD changer.

[2] Increase the volume of the portable player to desired level.

3. INSTALLING METAL SLEEVE

3.1 Metal sleeve

|1| Insert metal sleeve into the opening (182 x 53 mm) in the car dashboard or console.

|2| Fix metal sleeve into place by pressing the metal tags outwards using a screwdriver.

Rear support: Depending on car mounting situation, a rear support may be necessary. Certain cars are provided with a rear support hole. For other cars, a rear support bracket should be fitted.

4. CONNECTING RADIO

4.1 Fit antenna adaptor if needed

4.2 Insert aerial plug into aerial adaptor/socket.

4.3 Screw rubber buffer onto fixing stud at rear of set.

4.4 Insert loudspeaker plug **B** into socket **B'**.

4.5 Insert power supply plug **A** into socket **A'**.

4.6 (optional) Insert the plug of the CD changer cable or the adaptor cable for the portable CD player to connector **C**.

4.7 (optional) **Line output (4-channel):** Connect power amplifier (with additional loud-speakers) to the CINCH connectors **D** of the line-output.

Use pin [A5] of connector **A** for remote on / off of the power amplifier.

See **1.3. 'Electronic aerial'**.

5. MOUNTING RADIO

|1| Slide the radio into the metal sleeve until the springs at either side of the radio snap into the openings of the sleeve.

|2| Reconnect the negative car battery terminal.

6. REMOVING RADIO

You can unlock the radio using the two U-brackets supplied.

|1| Insert both U-brackets [x] into the holes [y] on the front of the set until they lock.

|2| Remove the radio from the metal sleeve.

REPLACING FUSE (see illustration 4.8)

|1| Pull fuse out of connector block at rear of radio.

|2| Replace with a blade-type fuse of the correct rating.

INTERFERENCE SUPPRESSION

Most modern cars have sufficient interference suppression. If you experience interference generated by the car, consult your garage.

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