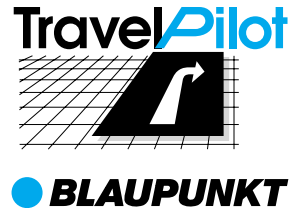
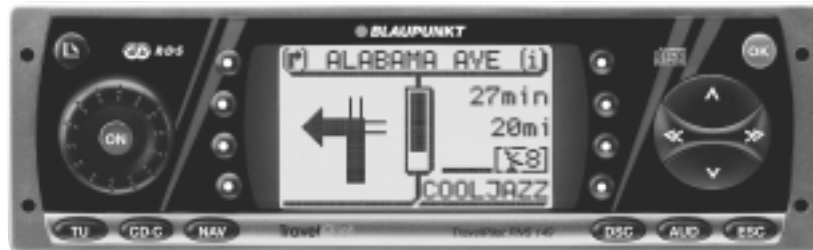


TravelPilot RNS 149 US

Installation instructions



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Bosch Group



Safety information

- Faulty installation or servicing of this equipment may result in malfunctions in the vehicle's electronic systems.
- To prevent damage to your TravelPilot, be sure to use the correct adapter cable to connect the vehicle 8-pin +/- ISO plug.

Observe the following safety information while installing and connecting the system:

- Disconnect the negative terminal of the battery.
- In doing so, observe the safety information provided by the vehicle manufacturer.
- Make sure not to damage any vehicle parts when you drill holes.
- The cross-section of the positive and negative wiring must not be less than 18GA.
- Use wire bushings for sharp-edged holes.
- The TravelPilot can be used in vehicles with:
 - 12 V battery power
 - Negative pole on the chassis

Information on proper installation

To ensure that the TravelPilot functions properly, it is essential that the system be calibrated after it has been completely installed (see Operating instructions / Contents / Calibration).

The system determines the distance travelled via its connection to the vehicle speedometer signal. **If there is no speedometer signal**, it will be necessary to have a wheel sensor mounted by an authorized customer service center.

In this case you will have to order a sensor kit (wheel sensor, magnet strip, bracket and plug) from your dealer.

Order-No.: 7 607 611 093

Installation instructions

1. Installing the antenna

Connect the antenna wiring to the enclosed bracket (see Fig. 5).

1.1 Radio antenna

In pre-equipped vehicles (e.g.: VW, BMW, Audi), the antenna gets its power supply via the antenna wire (see the vehicle operating instructions). If you want to replace the OEM radio with a conventional radio, you will have to order an antenna. You will find information on the installation and connection of the antenna in the antenna installation instructions. (see Fig. 5).

1.2 GPS antenna (satellite navigation)

You will find information on how to install the antenna in the enclosed antenna installation instructions.

If the GPS antenna is installed inside the vehicle, we cannot guarantee that the system will function correctly.

2. Installing the TravelPilot

2.1 Setting the Gyro

Important: Before the TravelPilot is inserted, the gyroscope must be put in a horizontal position (see Fig. 8).

Important: Installation position of the TravelPilot: right / left: min. 5° / max. +5°, front to back: min. -10° / max. +30°

The **TravelPilot** is installed in the standard car radio compartment provided by the manufacturer (see Fig. 5). Please check the installation conditions in your vehicle and use a vehicle-specific installation kit if necessary.

2.2 Installing the bracket

The bracket included with this TravelPilot allows you to install the system in vehicles with a DIN car radio compartment measuring 182 x 53 x 165 mm and an instrument panel which is 1 to 20 mm in the area where the fastener tabs are located, (see Fig. 1). For the installation, you have to push the bracket into the compartment and determine which fastener tabs you can bend over with a screwdriver (see Fig. 6).

Note: Bend over as many of the fastener tabs as possible.

2.3 Installing the TravelPilot

Push all of the plugs into the sockets until they lock into place. Now insert the navigation system from the front into the bracket. Apply gentle pressure to both side edges and push it in until the spring locks snap into position on the right and left (you will hear a loud click).

Important! When you push in the system, make sure that you do not put any pressure on the display, the knobs or the keys!

2.4 Removing the TravelPilot

Insert the handles into the corresponding holes on the left and right side of the front panel and push them in until you hear a loud click (unlocking the side spring locks). Use both handles to carefully pull the TravelPilot out of the compartment. Now you can pull out the connection cables by applying pressure on the side of the plug (see Fig. 7).

Note: Once the handles have locked into place, they cannot be removed until you pull the TravelPilot out of the compartment.

2.5 Connecting the back-up light signal wire

The back-up light signal wire connects the system to the vehicle back-up light. Make sure that this connection is charged with 12 volts when the vehicle is in reverse.

Important: We assume no liability for faulty connections and their consequences!

2.6 Connecting the speedometer signal

Important : Only an authorized customer service center should make this connection.

The speedometer signal wire connects the system to the vehicle-specific speedometer signal connection.

Important : We assume no liability for faulty connections and their consequences!

3. Connection diagrams

Power connection to the vehicle ISO standard plug	Fig.1/2
Power connection to the vehicle-specific plug	Fig.3
Speaker connection 4 speakers (4 Ω /35 W)	Fig.4
Antenna connection	Fig.5
TravelPilot installation	Fig.6/6a
TravelPilot removal	Fig.7
Setting the gyroscope	Fig.8
Connection assignments	Fig.9
Connecting the sensors	Fig.10

Installation instructions

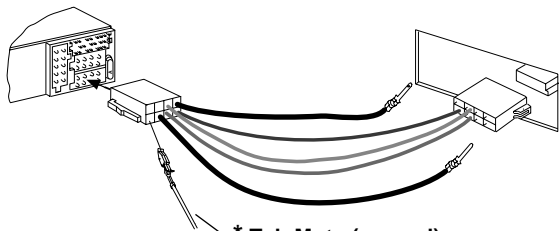


Fig.1 * Tel.-Mute (ground)

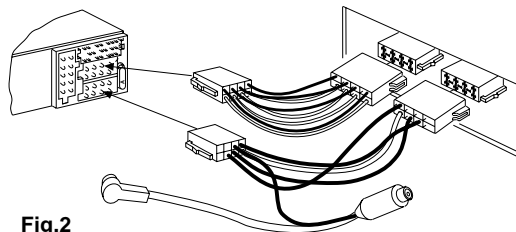


Fig.2

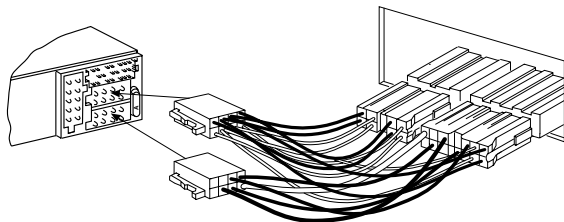


Fig.3

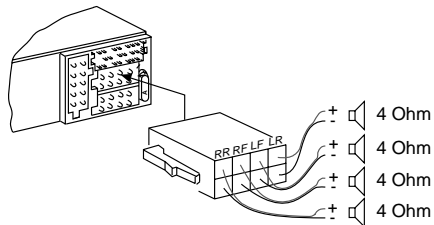
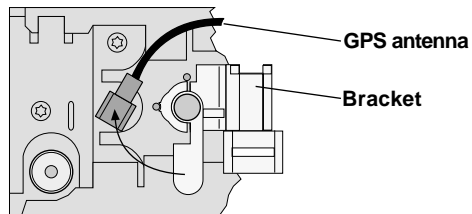
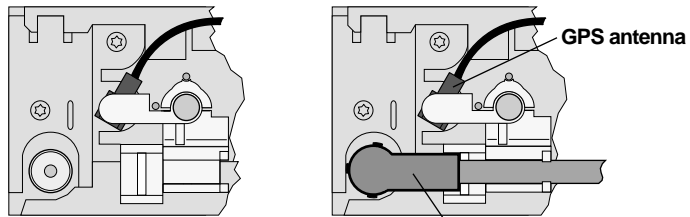


Fig.4

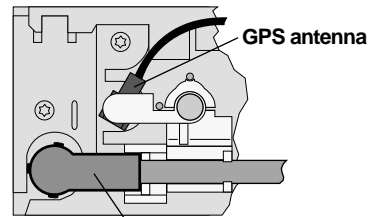


1.



2.

Fig.5



3.

Radio antenna

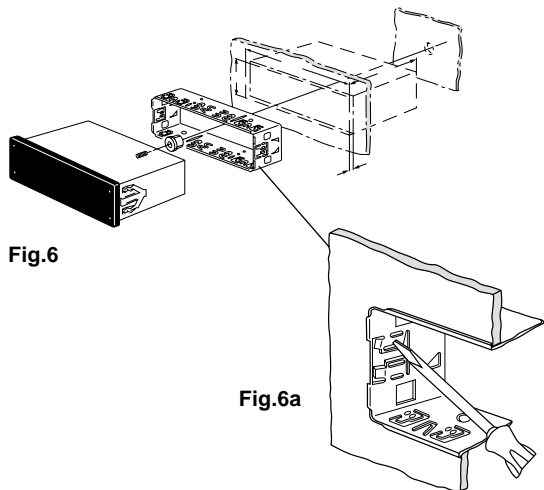


Fig.6

Fig.6a

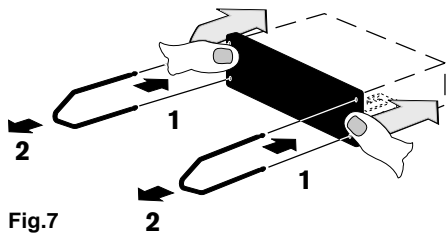


Fig.7

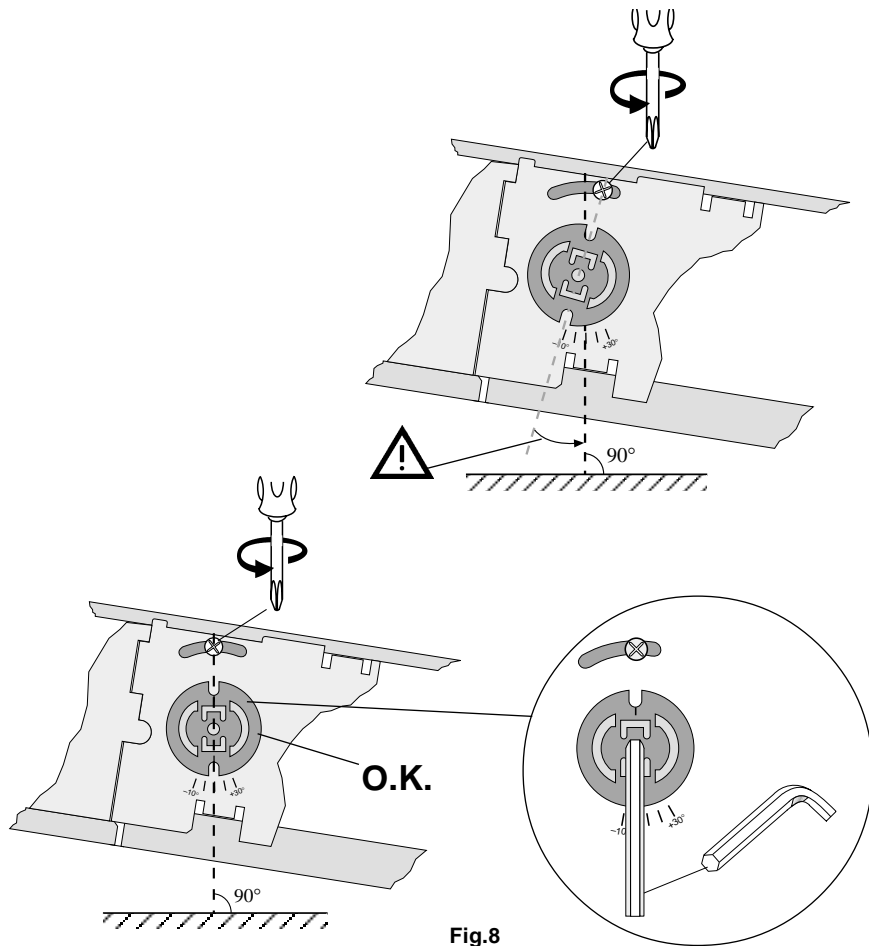
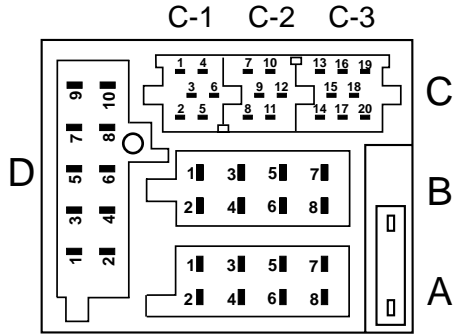


Fig.8

Installation instructions



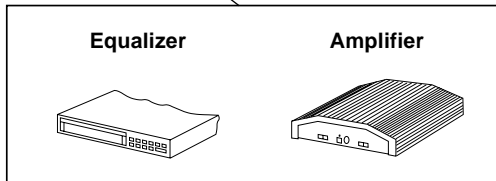
A		B	
1	Gala/Speed signal	1	Speaker out RR+
2	Tel.-Mute (Ground)	2	Speaker out RR-
3	Back Up Signal	3	Speaker out RF+
4	+12V Battery	4	Speaker out RF-
5	PWR. antenna	5	Speaker out LF+
6	Illumination +	6	Speaker out LF-
7	Ignition	7	Speaker out LR+
8	Ground	8	Speaker out LR-

D	
1	GND
2	—
3	—
4	—
5	—
6	—
7	Sensor
8	—
9	Sensor
10	—

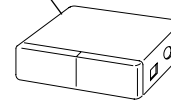
Wheel sensor

C					
C1		C2		C3	
1	Line Out LR	7	—	13	CDC Data-IN
2	Line Out RR	8	—	14	CDC Data-OUT
3	Line Out GND	9	—	15	+12V Permanent
4	—	10	+12V switched voltage (max. 150mA)	16	+12V switch voltage (max. 300mA)
5	—	11	Remote Control-In	17	CDC Data-GND
6	+12V switch voltage (max 150mA)	12	Remote Control-GND	18	CDC AF/AUX-GND
				19	CDC AF/AUX- L
				20	CDC AF/AUX- R

Fig.9



RC 06



CD changer

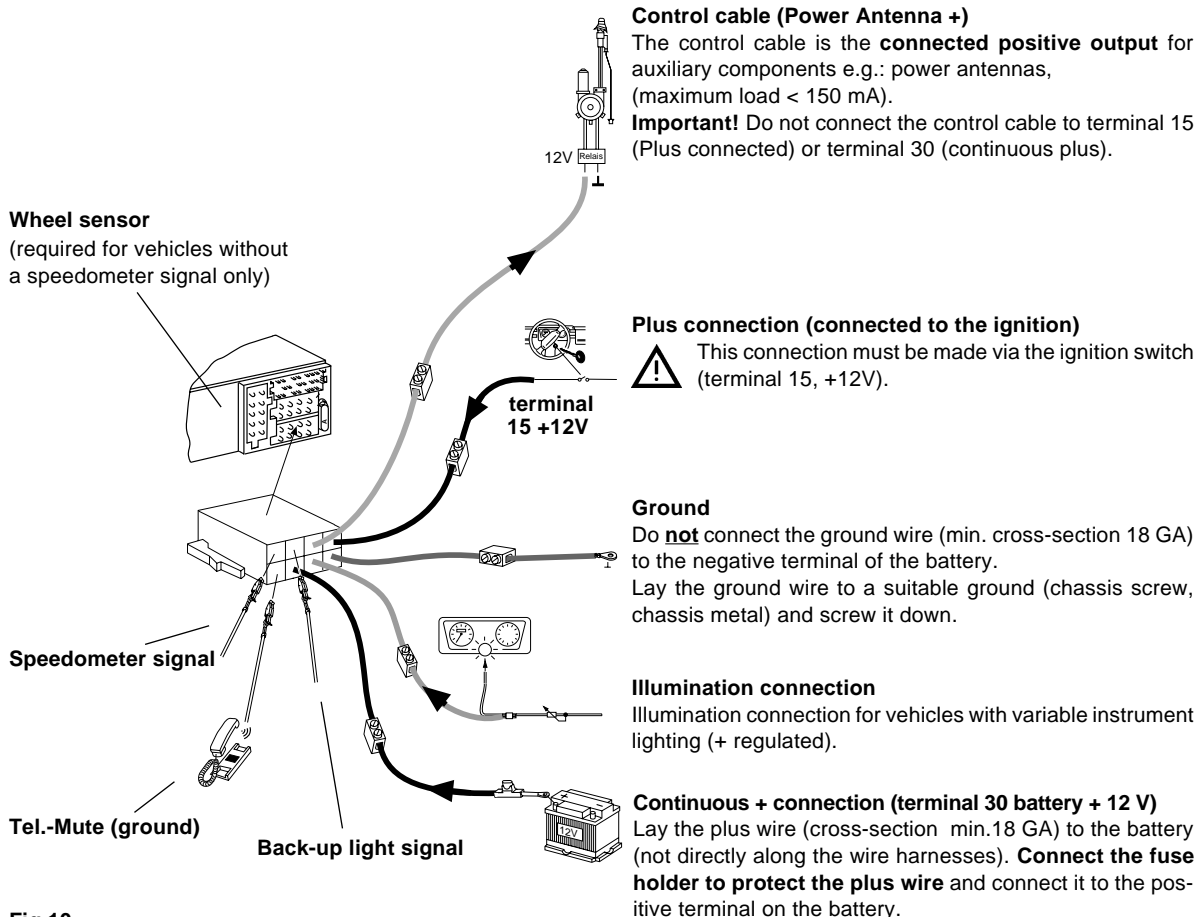


Fig.10

This information is subject to change without notice!