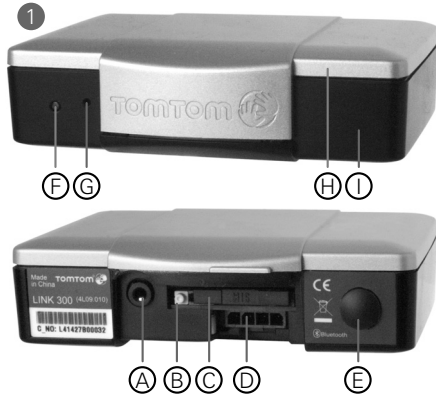




LINK 300

Installation Guide

What's in the box



- 1 TomTom LINK 300
 - A Service/Update cable connector
 - B Release button for SIM card holder
 - C SIM card holder (SIM card installed)
 - D Power cable connector
 - E GPS antenna connector (SMB) for optional use of an external GPS antenna
 - F LED
 - G Reset button
 - H Top side
 - I Bottom side



- 2 Power cable
- 3 Plastic seal
- 4 Two transparent adhesive strips for windshield mounting
- 5 Two grey adhesive strips for dashboard mounting
- 6 Cleaning tissue
- 7 Holder
- 8 Two self-tapping screws and washers
- 9 SIM card pre-installed
- 10 Activation label



Before the Installation

Congratulations

You have chosen TomTom LINK 300, a Connected Navigation solution from TomTom WORK. Connected Navigation enables you to always stay connected to your people on the road in a smart and easy way.

TomTom LINK 300 is a GPS receiver and GSM/GPRS module in one unit, always providing the vehicle's current position. When used with a TomTom navigation device, you will be able to easily handle orders, as well as text and status messages.

Attention! *You must activate your TomTom WEBFLEET account at least 2 business days prior to installation. Your TomTom LINK 300 will not function until this has been done. Activate at www.tomtomwork.com/us/activation*

What you need for the installation

Before starting the installation of your TomTom LINK 300, read the safety notices and warnings carefully and make sure you have the following things:

- The TomTom WEBFLEET **Contract Confirmation** letter including the **Activation Code**.
- All parts mentioned in the chapter **What's in the box** on page 4 and **two 2 A / fast blow fuses** (not included in the box).
- **Placement outside with a clear view of the sky**, where you can get a strong satellite signal for GPS reception.
- A **TomTom navigation device compatible to TomTom LINK 300** (for compatibility information see leaflet).

Safety first

Important safety notices and warnings

Important: Read the following safety instructions carefully

TomTom WORK accepts no liability for damage that results from disregard for the safety instructions.

This document is part of the product. Keep it in a safe place. If you pass the unit on to a new user, make sure you give them this document as well.

- **Important - damage caused through improper installation**

The installation and initial operation of the unit must be performed by authorized personnel only. In the event that users do not install the TomTom LINK 300 per the installation guidelines or if the device is deployed improperly, i. e. powering the device directly to a cigarette light adapter all data charges associated with this misuse will be the responsibility of the user.

- **Caution - risk of injury in case of accidents**

Do not mount the unit or accessories in the inflation area of airbags or in the impact area of the head or knees. Search carefully for an installation location that will avoid interference with displays, safety equipment and controls.

- **Caution - damage to the chassis**

Make sure you do not drill into parts of the chassis that have structural or security-related functions. You cannot be certain that they will function properly after modification.

- **Caution - risk of fire**

Make sure you do not drill into covered wiring harnesses, fuel lines or similar components. Drilling into these can cause fire.

- **Caution - use of this product is restricted in some areas**

The GSM module of the TomTom LINK 300 is likely to interfere with electric devices such as cardiac pacemakers, hearing aids, electric devices used in intensive medicine, and aviation equipment. The interference with these devices can endanger the health or life of the users. Do not use near unprotected electrical units nor in areas where the use of mobile telephones is prohibited, such as hospitals and airplanes! Switch off the unit if there is a danger of interference with such equipment.

Safety first

- **Caution - danger of explosion**

Parts of TomTom LINK 300 can cause sparks, which can lead to explosions. This may endanger human health and life. Do not use the unit in areas with high risk of explosion. When using TomTom LINK 300 follow the safety regulations per the US National Electrical Code NFPA 70.

- **Warning - repair and replacement**

Repairs must be carried out by authorized and qualified personnel only. Never replace damaged parts of the unit yourself. Give the defective unit to TomTom WORK. Only the qualified staff of TomTom WORK are authorized to repair or replace parts.

- **Warning - damage to the device**

Short-circuits inside the unit can be caused by contact with water or other liquids. The unit may be damaged by contact with water. Use and store the unit in an area protected from water.

- **Caution - risk of accidents**

Using the unit while driving is distracting and can cause accidents. To ensure road safety, only enter information in the unit when the vehicle is not being driven.

Proper Installation

First you need to find the right place to install your TomTom LINK 300. You can either decide for a hidden or for a non-hidden installation.

Non-hidden installation

If you do not want to use an external GPS antenna and have free access to the device you can simply affix it to the dashboard or to the windshield of your vehicle. (see **Mounting the TomTom LINK 300** on page 13)

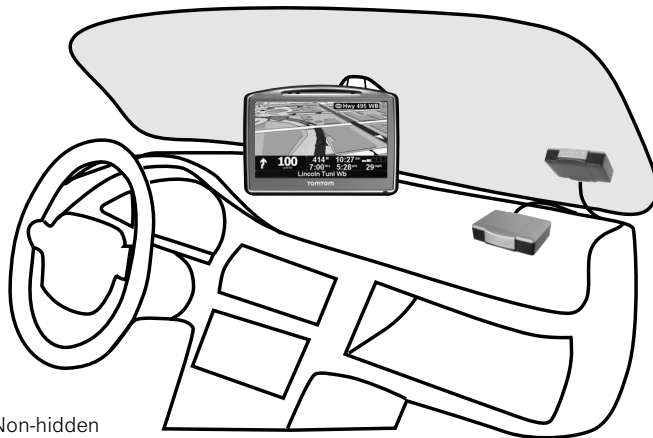
If the vehicle is often parked in direct sunlight or is exposed to high outside temperatures for long periods of time, the device may not work properly. In those cases, TomTom WORK recommends a hidden installation.

Hidden installation

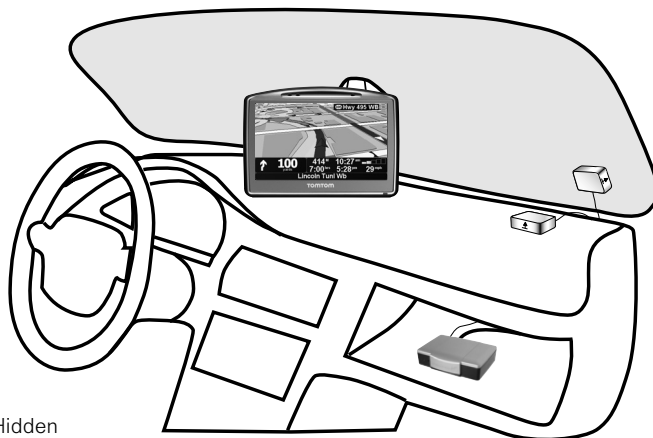
If you prefer to keep the TomTom LINK 300 in a hidden place, to protect it from high temperatures or for safety reasons (to not obstruct the driver's view e.g. in the windshield) you can place the device beneath the dashboard e.g. in the glove compartment.

You will need to find a place where the top of the device is not obstructed by metal items. Also, you will need the external GPS antenna (see **Alternative Mounting** on page 18). Use only the external GPS antenna from TomTom WORK. This is an optional accessory which is not included in the box.

Proper Installation

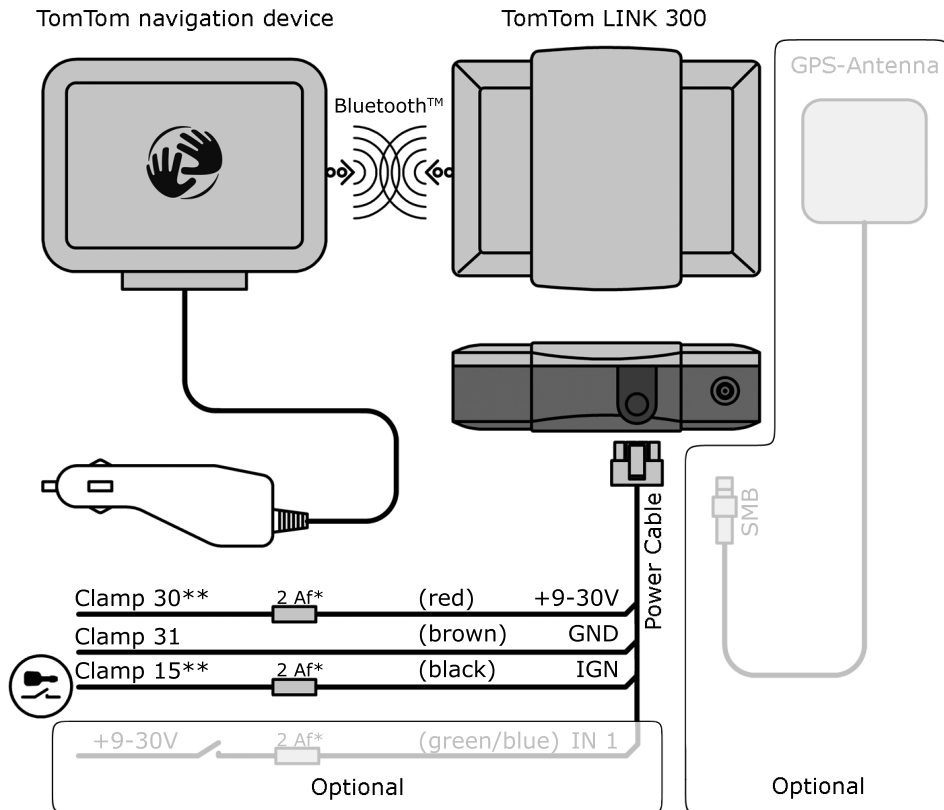


Non-hidden



Hidden

Connection overview



* See "Technical data" on page 24.

** Make sure the wire is fused with 15 A.

Connecting to power

Connect TomTom LINK 300 to the vehicle power supply with the standard vehicle voltage (12 V / 24 V). Do not connect to a voltage converter. The three wires GND, IGN and PWR+ (supply voltage) must be connected.

1. Connect the GND wire (brown) to ground (clamp 31).
2. Fuse the PWR+ wire (red) and the IGN wire (black) with one 2 A / fast blow fuse (**Technical data** on page 24) each.
3. Connect the fused PWR+ wire (red) to the carry current (clamp 30).
4. Then connect the fused IGN wire (black) to ignition (clamp 15).
5. If you do not want to record digital inputs, then connect the IN1 wire (green/blue) to GND. If you want to record a digital input, connect the IN1 wire (green/blue) to a 2 A / fast blow fuse (**Technical data** on page 24), then connect the fuse to a switch which is connected to the power supply. For further details see www.tomtomwork.com/in1.
6. Insert the 4-pin plug into the power cable connector.



Testing operation

Power/Ignition test

Before testing the connection to power and to ignition make sure you have carried out the steps described in the previous chapters.

1. Please check all connections to the TomTom LINK 300 (wires, fuses etc.).
2. Check that the SIM card is inserted correctly.
3. Turn on the ignition. The LED must be on with occasional (100ms) periods off.
4. Turn off the ignition - the LED must now be off with occasional (100ms) periods on.

*If the LED does not perform accordingly see **Diagnostics** on page 21.*

GPRS / GPS reception test

For this test, you may need to move the vehicle to a location with a clear view of the sky, to make sure that you have adequate GPS and GPRS reception.

For this test put the TomTom LINK 300 into the place where you want to affix it (please see **Mounting the TomTom LINK 300** on page 13).

1. Turn on the ignition.
2. Monitor the LED. It must be on with occasional (100ms) periods off.
3. Please wait until the LED stops flashing.

*If the LED keeps flashing longer than 10 min see **Diagnostics** on page 21.*

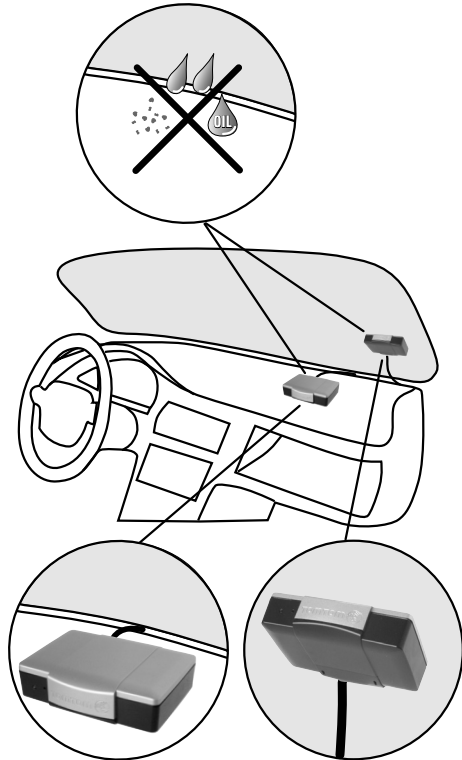
Mounting the TomTom LINK 300

TomTom LINK 300 comes with an integrated GSM antenna and an integrated GPS antenna.

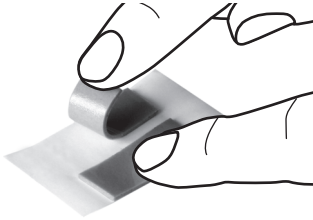
- TomTom LINK 300 must be placed unobstructed by metal objects and with the top side having clear view of the sky.
- The device must not interfere with clear vision for the driver.
- Tinted metallized windshields or those with integrated filament heating may obstruct the GPS reception.
- Place the unit on the dashboard or on the windshield with min. 2 inches distance to the vehicle chassis, so that optimal GSM transmission and GPS reception is ensured.
- The unit must be placed on an oil free, dry and clean surface. Extreme temperature changes/differences can affect the adhesive property of the strips.
- Optimally find a place with a distance bigger than 12 inch to the TomTom navigation device.

The TomTom LINK 300 can be affixed to the windshield or the dashboard with the two adhesive strips. For information about a hidden installation such as in the glove compartment, see **Alternative Mounting** on page 18.

Use the two adhesive strips to affix TomTom LINK 300 to the dashboard (grey strips) or the windshield (transparent strips). **Follow the safety instructions in this document.**



Mounting the TomTom LINK 300



1. Choose a flat surface for accurate positioning of the unit.
2. Clean the surface with the provided cleaning tissue, so that the surface is oil free, dry and clean.
3. Remove the protective film from one side of the strips.
4. For dashboard mounting (see figure) stick the strips to the bottom side. For windshield mounting stick the strips to the top side.
5. Remove the protective films from the other side of both strips.
6. Place the unit with the adhesive strips on the prepared surface. Press it gently for a few seconds until it sticks.

Note: The full strength of the strips will be reached after approx. 72 hours depending on the temperature.

At 65F: 20min=65% / 1h=90%;

At 149F: 20min=90% / 1h=100%;

At 50F: 20min=20% / 1h=30%.

Connecting to navigation device & WEBFLEET

Connect your TomTom LINK 300 to your TomTom navigation device to fully enjoy the benefits of Connected Navigation.

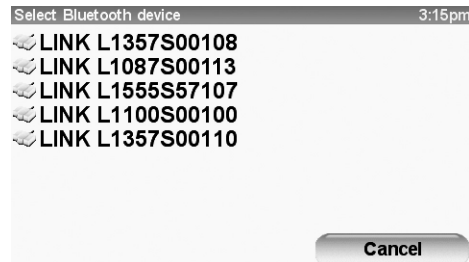
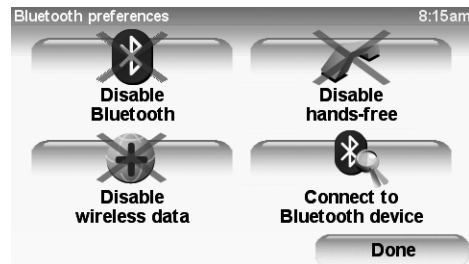
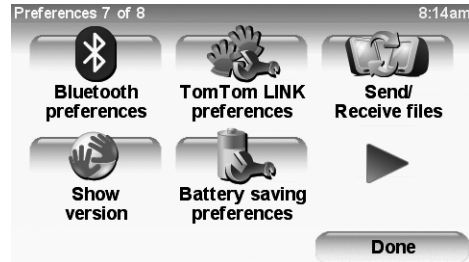
1. Make sure that the TomTom LINK 300 is connected to power and has GPRS connection.
2. Switch on the navigation device.
3. Tap the screen to bring up the main menu.
4. Tap **Change preferences**.
5. Tap **Bluetooth® preferences**. If this menu item is not displayed tap **Show all menu options** first.
6. Tap **Connect to Bluetooth® device**.

The navigation device starts searching for Bluetooth® devices:

If your navigation device finds more than one Bluetooth® device, it shows you a list of the available devices - please continue with step 7.

If your navigation device finds only one TomTom LINK 300, continue with step 8.

7. Select your TomTom LINK 300 from the list. The name starts with 'LINK' followed by the serial number of your TomTom LINK 300. The serial number is shown on the outside of the box.
8. Enter the Activation Code indicated in your TomTom WEBFLEET contract confirmation.



Connecting to navigation device & WEBFLEET

Vehicle license plate number 3:17pm

L - TT 90|

1	2	3	4	5
6	7	8	9	0
.	,	-	'	@
←	äöü	#&?	ABC	OK

9. Enter the identification information of the vehicle correctly.

10. Select the appropriate vehicle type.

If you have properly connected the two devices, the connection will be established automatically. Additional menu items will appear on your navigation device. On the driving view of your navigation device the two red crossed arrows must not be displayed.

You can always check the connection status between the two devices by tapping **Connection status** under **TomTom LINK preferences** on your navigation device.

Vehicle type 3:17pm

Passenger car

Taxi

Bus

Van/Light truck(< 13,000lb)

Truck(13,000 - 33,000lb)


Heavy truck(> 33,000lb)

Other

Cancel

TomTom connection status 7:08

Status:
Connected



Bluetooth:	Connected
GPRS:	Connected
LINK SW:	L44307/S30017
LINK SW:	5.28 / 0.0935
SIM ID:	89492040507416562048
Operator:	26202
Account:	Activated

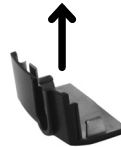
Done

Closing the TomTom LINK 300

After you have successfully tested the operation of the TomTom LINK 300 (see **Testing operation** on page 12) and connected it to the TomTom navigation device and TomTom WEBFLEET (see **Connecting to navigation device & WEBFLEET** on page 15), you can now close the TomTom LINK 300 with the plastic seal.

IMPORTANT: *Once you have closed the TomTom LINK 300 with the plastic seal, the device cannot be opened again without damaging the seal.*

For this, slide the plastic seal over the plug of the power cable into the housing and press gently until it engages.



Alternative Mounting

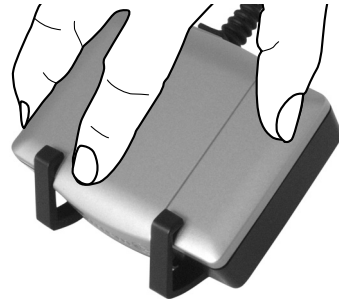
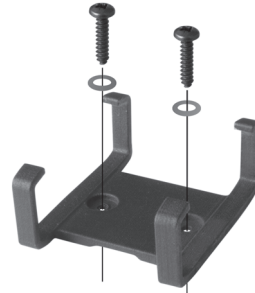
Using the holder

You can also choose to mount the TomTom LINK 300 using the holder. The holder can be affixed either with the the two self-tapping screws or with the adhesive strips. To use the self-tapping screws, see the description below. To use the adhesive strips please, see **Mounting the TomTom LINK 300** on page 13. **Follow the safety instructions in this document.**

1. Choose a flat surface for TomTom LINK 300.

Remember, when TomTom LINK 300 is in the holder, it must have a clear view of the sky.

2. Insert the two screws into the corresponding holes in the holder.
3. Tighten the screws.
4. Carefully place the TomTom LINK 300 in the holder until it clicks into place.



Alternative Mounting

Mounting external GPS antenna

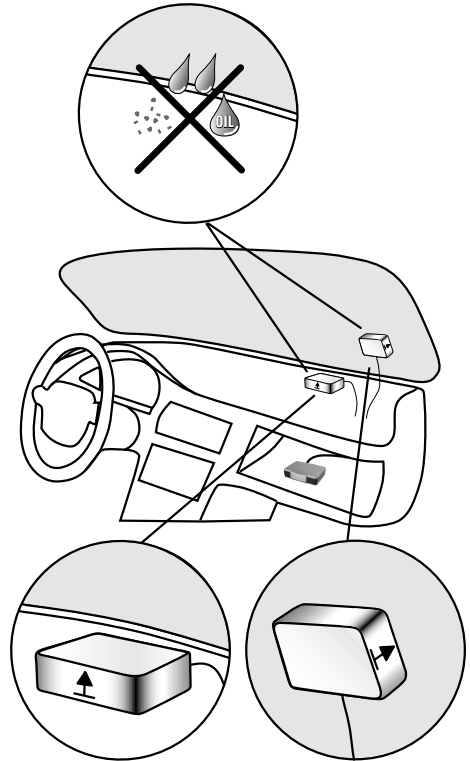
If you install the TomTom LINK 300 in a place where it is not visible, so that it does not have a clear view of the sky, you need to use the TomTom WORK external GPS antenna accessory (part number 9L09.001) which comes with an integrated magnet and an adhesive pad. The TomTom WORK external GPS antenna is not part of the standard TomTom LINK 300 product package.

Important!

- Only use the GPS antenna from TomTom WORK, or the GPS performance will be poor or will not work at all.
 - Tinted windshields or those with integrated filament heating may prevent good GPS reception. In this case, place the GPS antenna in the rear window or on the outside of the vehicle.
 - The magnet of the antenna will remain attached to the outside of the car at speeds of up to 108 M/h.
 - Install the GPS antenna in a place where it has a clear view of the sky and is unobstructed by metal objects.
 - The GPS antenna must be placed with the adhesive pad on an oil free, dry and clean surface.
 - Extreme temperature changes / differences can affect the adhesive property of the pad.
 - To ensure proper GSM/GPRS reception choose a place where the top side of the TomTom LINK 300 is unobstructed by metal objects.
-

Alternative Mounting

1. Remove the rubber cap from the GPS antenna connector.
2. Insert the plug of the GPS antenna into the GPS antenna connector on the TomTom LINK 300.
3. Prepare a smooth, clean, oil free and dry surface in the windshield.
4. Attach the antenna to the prepared surface so that the top side has clear view of the sky. Either locate a smooth metal surface or use the extra adhesive pad.



Diagnostics

Monitoring operation

Monitor the operation of TomTom LINK 300 according to the table below.

LED mode	
OFF	Unit is in Standby mode
1sec on, 100ms off, 100ms on, 100ms off	Waiting for GPRS
1sec on, 100ms off	Waiting for GPS
ON	Normal operation (GPS and GPRS are available)
4sec off, 100ms on	Ignition is off (unit is not yet in Standby mode)
Rapidly flashing: 500ms on, 500ms off	System error (see Reset TomTom LINK 300 on page 23)

Troubleshooting

Find solutions for malfunctions with the help of the LED and the table below.

LED is active when ignition is turned on and is off when ignition is turned off	PWR+ wire is connected to ignition and the IGN wire is connected to power (see Connecting to power on page 11)
LED is off when ignition is either turned on or off	Unit is not connected to the power supply (see Connecting to power on page 11)
LED is neither constantly off nor off with occasional periods (100ms) on when ignition is turned off	IGN wire and the PWR+ wire are both connected to power. (see Connecting to power on page 11)
LED shows that the device is waiting for GPRS for longer than 10 minutes after turning on the ignition	SIM Card may not be inserted correctly GSM reception may be obstructed by metal objects (see Mounting the TomTom LINK 300 on page 13)

Diagnostics

<p>LED is 1sec on, 100ms off for longer than 10 minutes after turning on the ignition</p>	<p>GPS reception may be obstructed, check whether you have clear view of the sky</p> <p>GPS antenna might not be connected properly (in case of a hidden installation), check the connection to the external GPS antenna and its position. It must be the original TomTom WORK GPS antenna. (see Alternative Mounting on page 18)</p>
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Support

If you cannot find the answer to your question with the help of the tables above please contact the TomTom WORK support team via the support form on our website www.tomtomwork.com/us/company/support-contact.xml

Reset TomTom LINK 300

If the TomTom LINK 300 does not operate properly or signals a system error (see **Diagnostics** on page 21) you may need to reset the unit. Only reset the TomTom LINK 300 after you have made sure you have carried out all previously described steps without success.

To reset the TomTom LINK 300 press the reset button with a thin pointed object until it clicks and keep it pressed for 5 seconds. The unit reboots immediately after releasing the reset button.



Technical data

Dimensions	Body 3.3 x 2.6 x 0.9 in. / Holder 2.2 x 2.6 x 1.2 in
Weight	Body: 3.4 oz / Holder: 0.4 oz
Material	Body and holder: Injection molded plastic PC/ABS
Protection class	IP 20
Supply voltage	12 V / 24 V (min. 9 V to max. 30 V)
Current consumption (average values)	At 14 V: typically < 50 mA At 28 V: typically < 30 mA Standby: typically < 1 mA During data transmission 14V < 180mA 28V < 100mA
Fuse protection	Operating voltage 9 - 30 V with 2 A / fast blow* Ignition with 2 A / fast blow* <i>* Mini Fuse Fast-Acting 2A (Littlefuse Ord.No. 297 002) and Mini Fuse Easy-Crimp In-Line Fuseholder (Littlefuse Ord.No. 153002)</i>
Temperature	-22°F to +158°F operation (for GSM module operation: Temperatures outside the range -4°F to +67°F might slightly deviate from ETSI specifications.) -40°F to 176°F storage
GSM	Integrated GSM antenna and GSM module Quadband GSM 850 / 900 / 1800 / 1900
GPS	Integrated GPS antenna and GPS receiver
Bluetooth™	Integrated Bluetooth™ (class 2) for connection to TomTom navigation device
Ignition input	To be connected to the ignition clamp to switch on/off device together with ignition
Digital input	1 input switchable to supply voltage
GPS antenna connector for external GPS antenna (optional accessory)	SMB (male) - (antenna - female) Supply voltage range 3 V to 5 V Minimum antenna gain at 3 V: 20 dB Maximum antenna gain: 40 dB Maximum noise rating: 1.5 dB

Addendum

Federal Communications Commission (FCC) Statement

FCC ID: S4LLINK3002

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

- (1) this device may not cause interference and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

- (1) This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- (2) This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

IC Declaration of Conformity

IC: 5767A-LINK3002

Operation is subject to the following two conditions:

- (1) this device may not cause interference and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Category II radiocommunication device complies with Industry Canada Standard RSS-310.

Ce dispositif de radiocommunication de catégorie II respecte la norme CNR-310 d'Industrie Canada.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Responsible party in North America

TomTom, Inc., 150 Baker Avenue, Concord, MA 01742, Tel: 866 459 3499

Limited Warranty

© 2008 TomTom International BV, The Netherlands. Our limited warranty applies to this product. You can review this limited warranty at <http://www.tomtomwork.com/us/company/termsconditions.xml>.