



GTM 10 FM TMC TRAFFIC RECEIVER INSTALLATION SHEET



NOTE: This Installation Sheet is for the installer. Fill out the Owner Questionnaire below and give this entire document to the professional installer.

Garmin highly recommends that a professional installer complete the installation.



NOTE: If this unit installs directly from a retailer, the owner may not be able to fill out the questionnaire. Consult the owner to find out answers to the questionnaire before installing the receiver.

For the Owner

Due to the location of the vehicle's radio antenna, **Garmin highly recommends that the GTM 10 be installed by a professional installer. Installing the GTM 10 without the aid of a professional installer may damage the GTM 10 and void your warranty.**

Owner Questionnaire

1. Do you have a preference for how the installer runs the mini-USB cable out from behind the radio? For safety purposes, Garmin recommends running the cable on the passenger's side of the vehicle.

No

Yes, run the mini-USB cable out from behind the radio by _____

2. What type of traffic service are you currently using?

Free services (where available)

Trial subscription

Purchased subscription

2a. If you purchased a subscription, have you activated your subscription by entering your 25-character subscription code in your GPS device?

Yes

No

2b. If **No**, would you like the installer to enter your 25-character subscription code into your GPS device?

Yes (Please provide the GPS device's *Owner's Manual* to the installer.)

25-Character Traffic Subscription Code _____ - _____ - _____ - _____

No

3. How do you want the installer to mount the GTM 10 after it is connected?

Attach with foam tape to a surface

Let it hang freely



NOTE: You can purchase a subscription at any time. You do not need to purchase a subscription before having the GTM 10 installed in your vehicle.

For the Installer

The GTM 10 FM TMC Traffic Receiver installs between a vehicle's radio and its antenna cable. Carefully read this *Installation Sheet* and follow the instructions to install the GTM 10 in the vehicle.

GTM 10 Overview

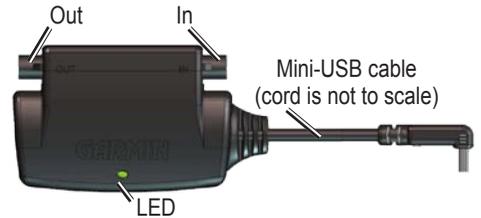
The GTM 10 has two cable connectors that allow it to be installed in series between the antenna and radio. **Do not open the GTM 10 or loosen the case screws.**

In: In from antenna. Connect the antenna adapter here.

Out: Out to radio. Connect the radio adapter cable here.

LED: displays the signal status.

Mini-USB cable: 1.5-meter built-in cable to connect to a Garmin GPS device.

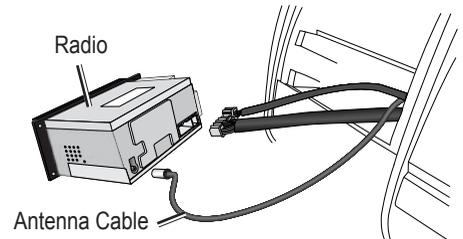


Step 1: Prepare the Radio



TEST: Before installation, test the vehicle's radio to ensure that the antenna is functioning properly and the radio can receive all normal FM signals. If the antenna functions improperly, the GTM 10 may not work properly. Consult the owner about continuing with installation.

Remove the trim panel and other parts of the dashboard to access the vehicle's radio antenna cable. You may need to remove the radio as well. Detach the antenna cable.



Step 2: Choose the Appropriate Cables

The GTM 10 ships with several adapter cables. Each cable contains at least one Fakra connector for connecting to the GTM 10 In/Out receptacles. Except for the dual-ended Fakra cable, the cables are grouped in pairs: for each cable with a male end (plug) there is a matching cable with a female end (receptacle).

European and UK packages include one cable that has two Fakra connectors, one pair of ISO cables, and one pair of Motorola cables. The US package includes one cable that has two Fakra connectors, one pair of Motorola cables, and one pair of GM cables.



Fakra Connector



ISO Male (Plug)



ISO Female (Receptacle)



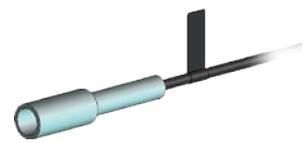
Motorola Male (Plug)



Motorola Female (Receptacle)



GM Male (Plug)



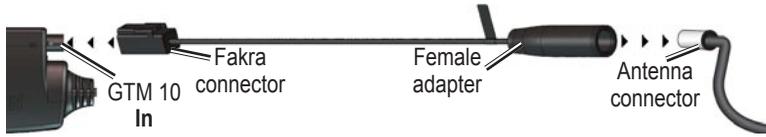
GM Female (Receptacle)

To select the proper pair of cables to use, match the adapter cable male end (plug) to the vehicle's radio antenna cable plug. Use that pair of cables for the installation. If the antenna has a Fakra connector, use the dual-ended Fakra cable between the GTM 10 and the radio.

Step 3: Connect to the Radio

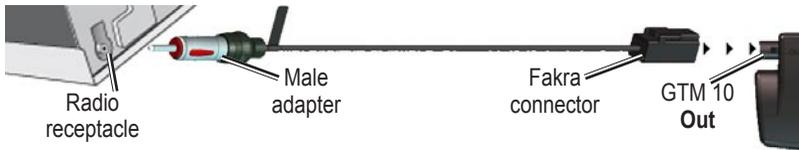
The GTM 10 connects in series between the antenna and radio, using the adapter cables chosen in Step 2.

1. Connect the antenna plug to the appropriate female (receptacle) adapter cable. Connect the Fakra plug to the **In** connector on the GTM 10. The Fakra plug locks firmly in place.



If the antenna cable has a Fakra connector, no adapter cable is needed between the antenna cable and the GTM 10 **In** connector. Connect the Fakra antenna cable directly into the **In** connector of the GTM 10. Then use the supplied dual-ended Fakra cable to connect the GTM 10 to the radio, as described below.

2. Connect the Fakra connector of the adapter cable to the **Out** connector of the GTM 10. Connect the male (plug) adapter cable into the radio receptacle, as shown below.



TEST: Turn on the vehicle's radio. If sound from an FM radio station can be heard, the GTM 10 and its cables are properly connected. If no sound is heard, the GTM 10 is not connected correctly. Check that all cables are locked into place and free of obstructions. If the connections are secure, make sure the chosen adapter cables are correct for the vehicle.

Step 4: Connect to the GPS Device

Refer to question 1 on the Owner Questionnaire for the owner's instructions on how to route the cable up to the GPS. Route the mini-USB cable from behind the radio on the passenger's side of the vehicle up to the GPS device. If possible, thread the cable through an existing opening in the glove box or trim panel. Thread enough cable through the opening to reach the GPS device. **Do not cut the mini-USB cable.**

If the mini-USB cable is not long enough to reach the GPS device, a 2-meter extension cable is available for purchase from a Garmin dealer or from the Garmin Web site at <http://www.garmin.com/products/gtm10>.

Step 5: Test the GTM 10

Test the GTM 10 for proper installation and service reception. Connect the mini-USB connector to the Garmin GPS device, if you have access to the GPS.

- **Observe the LED:** Turn on the GPS device. Service reception is indicated by the solid green light, which may take up to five minutes to appear for initial data acquisition.

● ○ ● ● Yellow dot-dash flashes: waiting for initial country code, automatically supplied by the Garmin GPS device.

● ○ ● ○ Yellow fast flashes: searching table for active entry

● ● ● ● Red/Green flashes: scanning for new TMC FM stations

● ● ● ● Red solid light: momentary sync loss

● ● ● ● Green solid light: normal TMC traffic data flow. The GTM 10 must be in an area of service and be receiving adequate signals to display a solid green light.

- **Verify Signal Strength:** If you are inside a building where radio signals cannot be received, you may need to take the vehicle outside for testing.
- **Verify that you are in a service area:** Check for service from the pay service or free services, if available.
- **Check the Map:** Turn on the GPS device and access a map. Check for traffic alerts and symbols on the map. It may be easiest to browse the map of a roadway or intersection under construction or that is known to have frequent traffic hazards. If possible, refer to the *Owner's Manual*.

If the above tests fail, either you are not in a service area, the purchased subscription is not activated (see below), or the installation might be faulty.

Activating a Subscription

If the owner has marked **Yes** for 2b, you need to enter the 25-character code into the GPS device to activate the purchased subscription. As each GPS device operates differently, consult the *Owner's Manual* for complete information about entering the code. After you enter the code to activate the subscription, you can use the steps listed above to test the installation.

Step 6: Mount the GTM 10

If possible, place the GTM 10 where the LED can be seen without dismantling the dashboard.

1. Mount the GTM 10 according to the owner's response to question 3:
 - Attach with foam tape: clean and dry a flat surface behind the dashboard. Remove the backing from the foam tape and attach the GTM 10 to the flat surface.
 - Hang freely: bind up any slack cable from the mini-USB cable with a wire tie and let the GTM 10 hang freely behind the radio.
2. Check that all cables and the GTM 10 are secure and free of obstruction.
3. Replace all parts of the dashboard to their original locations.
4. Repeat the testing as described in Step 5.



© Copyright 2005 Garmin Ltd. or its subsidiaries

Garmin International, Inc.
1200 East 151st Street,
Olathe, Kansas 66062 U.S.A.
Tel. 913/397.8200
Fax. 913/397.8282

Garmin (Europe) Ltd.
Unit 5, The Quadrangle,
Abbey Park Industrial Estate,
Romsey, SO51 9DL U.K.
Tel. 44/0870.8501241
Fax. 44/0870.8501251

Garmin Corporation
No. 68, Jangshu 2nd Road,
Shijr, Taipei County, Taiwan
Tel. 886/2.2642.9199
Fax. 886/2.2642.9099