

# Exterior On-Board Unit Installation

600039-003 08/11

This document describes the procedures to install the Exterior On-Board Unit (OBU) on the outside of a commercial or passenger vehicle.

The typical mounting location for an Exterior OBU is over the license plate at the upper part of a vehicle's front license plate area (Figure 1).

**Note:** *If your state does not require a front license plate, install the Exterior OBU in the area where the license plate would normally be mounted. If your vehicle does not have a designated front license plate mounting area, contact your tag agency for other options.*

## Supplies

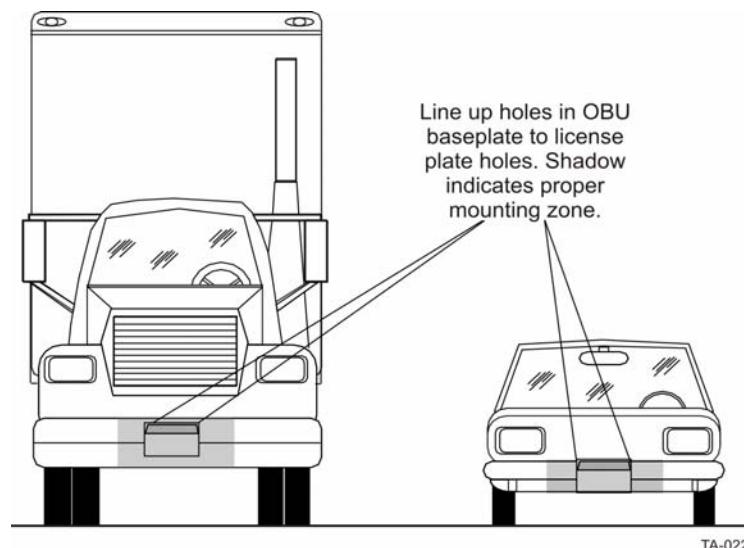
- Exterior OBU (may have double-sided tape for secure mount)
- Screwdriver (flat-blade or Phillips depending on your vehicle's license plate mounting screws)
- Optional two self-tapping threaded screws (customer supplied)
- Optional TransCore Exterior Tag Accessory Kit (19077-01). This kit contains tamper-resistant mounting screws and wrench.

## Exterior OBU Installation Procedures

### To mount the Exterior OBU in the license plate area

1. Remove the screws from the license plate area of your front bumper (Figure 1). If your vehicle does not have mounting screws you will need two self-tapping threaded screws. You can also contact the tag agency to inquire about the optional TransCore Exterior Tag Accessory Kit.

**Note:** *You may need to use longer screws to fasten the OBU over the top area of your license plate.*



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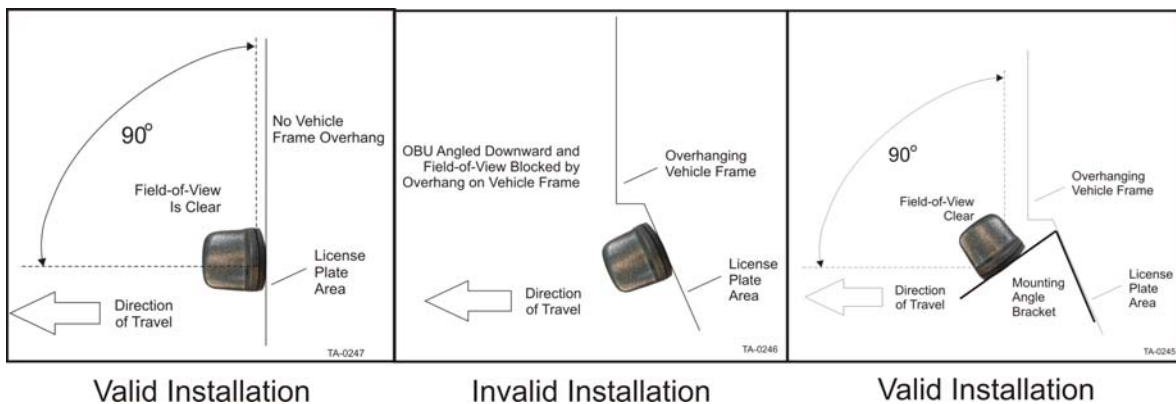
**Figure 1 Typical Mounting Location for Exterior OBU**

- Position the OBU so that it is within 18 inches (46 cm) of the center of the front bumper as shown by the shaded area in [Figure 1](#). If your vehicle's license plate mounting area is more than 18 inches (46 cm) from the center, you may need to select an alternate location on the bumper to mount the OBU. Contact your tag agency if your vehicle requires an alternate mounting location for the OBU.
- Hold the OBU so that the mounting holes are to the top and fasten the OBU to the bumper using the license plate mounting screws ([Figure 2](#)). Install the OBU over the top area of the vehicle's license plate if your vehicle has a front license plate. If your state does not require a front license plate, install the OBU in the area where a license plate would normally be mounted.



**Figure 2 Placement Over the Upper Area of the License Plate**

The license plate should have a 90-degree field-of-view to the overhead antenna as the vehicle approaches the toll plaza/gantry. If the vehicle bumper limits the field-of-view or if the license plate area is angled downward toward the pavement, you can use an angled mounting bracket to point the OBU upward to increase the field of view and improve performance ([Figure 3](#)).



**Figure 3 Examples of OBU Installations**

**NO UNAUTHORIZED MODIFICATIONS STATEMENT**

**Caution:** This equipment may not be modified, altered, or changed in any way without permission from TransCore, LP. Unauthorized modification may void the equipment authorization from the FCC and will void the TransCore warranty.

**RADIO FREQUENCY INTERFERENCE STATEMENTS**

**Note:** This device complies with Part 15 of the FCC Rules and the Industry Canada Licence-Exempt RSS Standards. 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 this device.

**Note:** Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



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