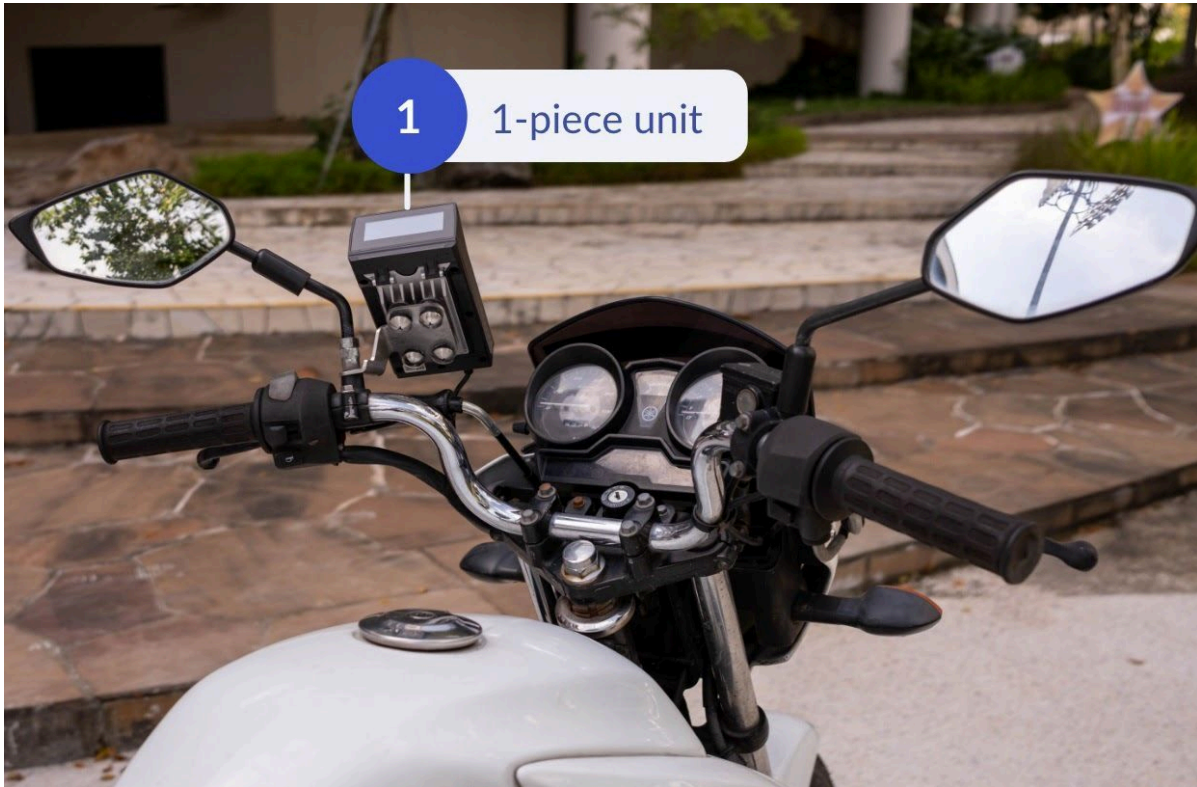


Annex A: The OBU and Configuration in Vehicles

1. The **single-piece OBU** for motorcycles includes a processing unit and a small touchscreen for riders to toggle through different functions. It will be mounted on motorcycles' handlebars.



OBU to be mounted on handlebars, similar to IU today

2. The **three-piece OBU**, which will be installed in all other vehicles, comprises an antenna, processing unit and touchscreen display. This design takes into consideration operational differences between motorcycles and other vehicles. For example, heat dissipation is a key factor as the ambient temperature in an enclosed vehicle is significantly higher and would not suit a one-piece design. The functions of the three components are as follows:

- a. Antenna: Communicates with ERP and car park gantries and GNSS.
- b. Processing unit: Processes all payment-related transactions.
- c. Touchscreen display: Notifies motorists about ERP and payment info, and provides other info such as locations of nearby Silver Zones, bus lanes etc. It also allows drivers to control the volume of OBU alerts.

3. The antenna will be mounted on the windscreen in a way that does not obstruct the view of drivers or distract them, without compromising on its communication with the gantries and GNSS.

4. The processing unit will be mounted on the side of the front passenger footwell to manage all payment-related transactions. The feasibility of this position in different

vehicles will be assessed at the workshop and alternate locations will be suggested if necessary.



OBU with all three pieces installed in their default positions



OBU without the touchscreen display installed