

ABSTRACT

IN-VEHICLE UNIT

An in-vehicle unit, which is used in each of a plurality of host vehicles including a subject vehicle and a plurality of nearby vehicles near the subject vehicle, includes an inter-vehicle communicator (16a, 16b) to transmit and receive information using inter-vehicle communication. The in-vehicle unit used in the subject vehicle includes a criterion value setting section (116b) and a different-unit anomaly detection section (117b). The criterion value setting section receives a different-unit installation state index that is transmitted via the inter-vehicle communicator using the inter-vehicle communication and sets successively a criterion value of an installation state index from the received different-unit installation state index; the different-unit installation state index is specified based on an output value from a sensor instrument (12a, 13a, 14a) that successively outputs an output value corresponding to an installation state of the in-vehicle unit on each of the nearby vehicles. The different-unit anomaly detection section detects an abnormal installation state of the in-vehicle unit on a target nearby vehicle that is a predetermined diagnosis target among the nearby vehicles by comparing the criterion value set by the criterion value setting section with the different-unit installation state index received via the inter-vehicle communicator from the target nearby vehicle.

FIG. 3