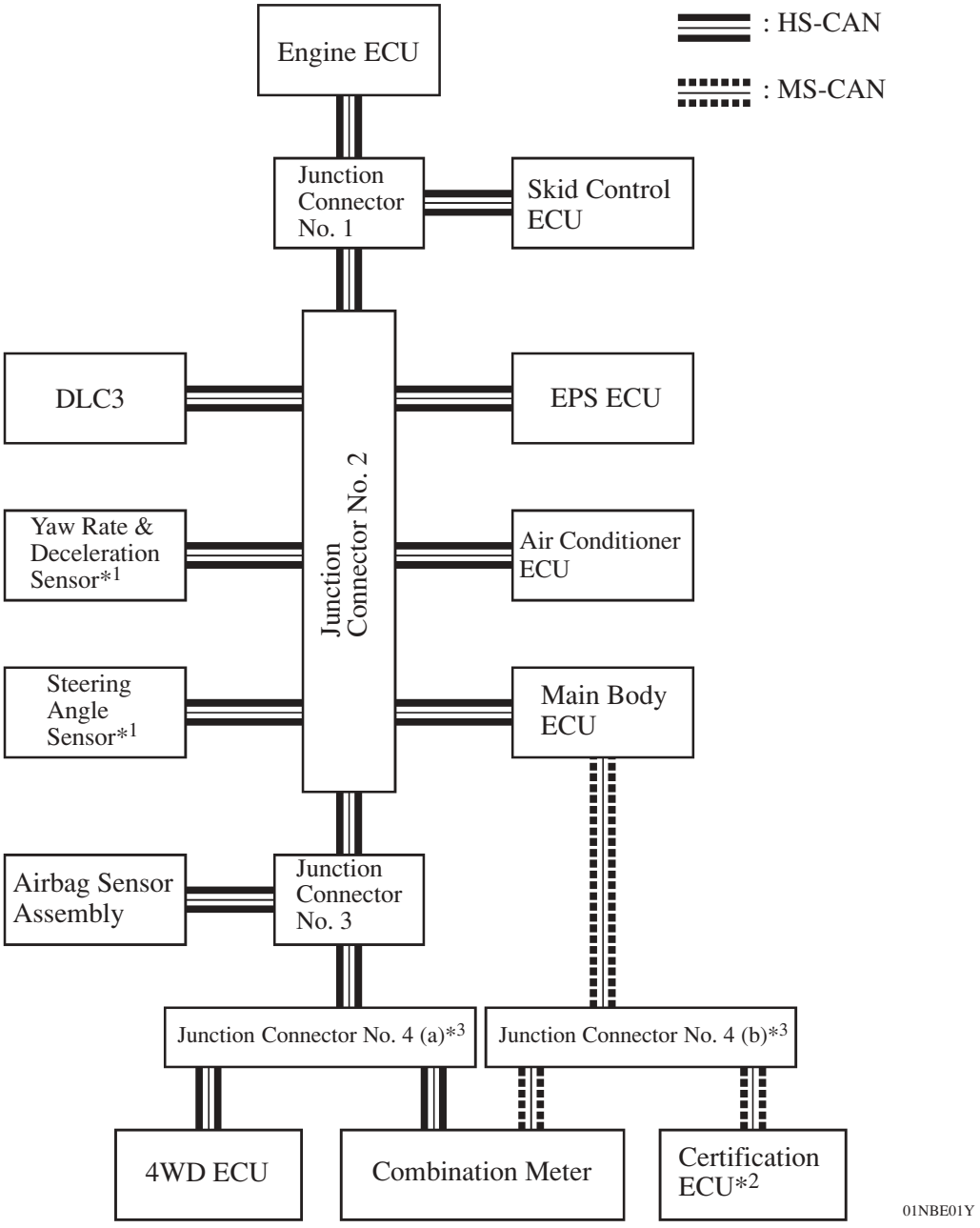
BODY ELECTRICAL

MULTIPLEX COMMUNICATION

■ DESCRIPTION

- On the new model, multiplex communication in which many different ECUs are linked to a bus line and data are mutually transmitted among the ECUs through the line is used.
- On the new model, CAN (Controller Area Network) is used among the ECUs as shown below.

▶ System Diagram ◀



LHD Models

*1: Only for Models with VSC System

*2: Only for Models with Smart Entry & Start System

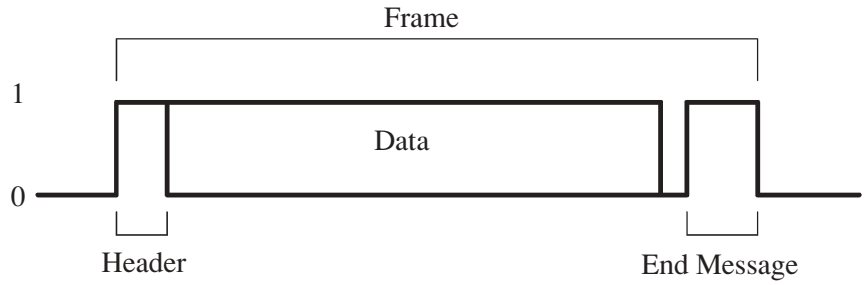
*3: The junction connector No. 4 (a) and the junction connector No. 4 (b) comprise a single part. However, they are not internally connected in the CAN (Main Bus Line) or the CAN (Middle Speed Bus Line).

— REFERENCE —

Multiplex communication uses serial communication data that consists of bits and frames in order to exchange information among the various ECUs. This allows a reduction of the amount of wiring on the vehicle.

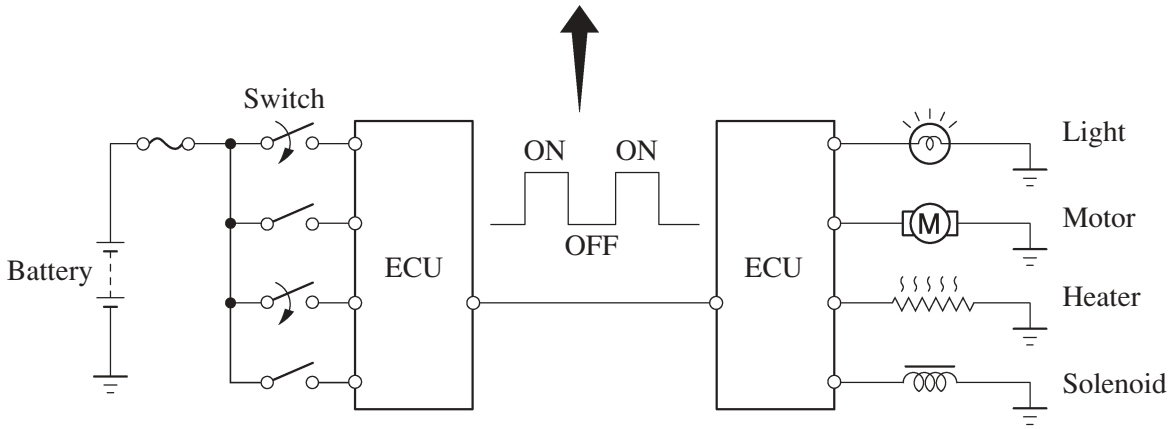
- A bit is the basic unit of communication that is used to represent the information. A bit is represented by binary values of “0” or “1”.
- A frame is a body of data that is transmitted together. A frame contains a header that indicates the beginning, and an end message that indicates the end.

▶ Conceptual Drawing ◀



Serial Communication Data

240BE05



240BE03