BODY ELECTRICAL

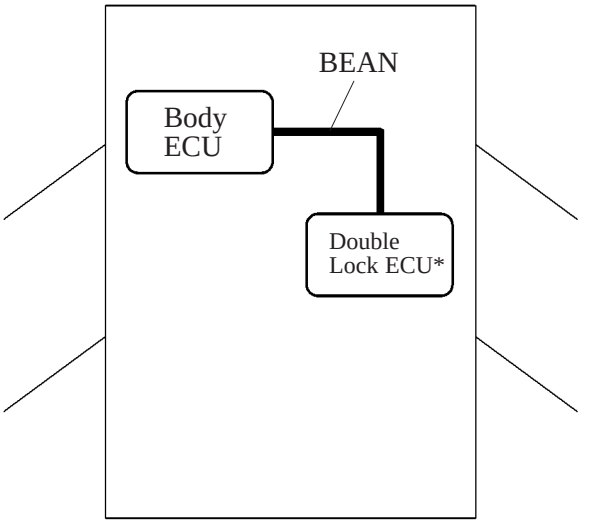
BODY ELECTRICAL SYSTEM CONTROL

■MULTIPLEX COMMUNICATION SYSTEM

1. General

- The body ECU has been adopted to control the body electrical system.
- On the European RHD models with an optional double-locking system, BEAN (Body Electronics Area Network) communication is established between the double lock ECU and the body ECU.

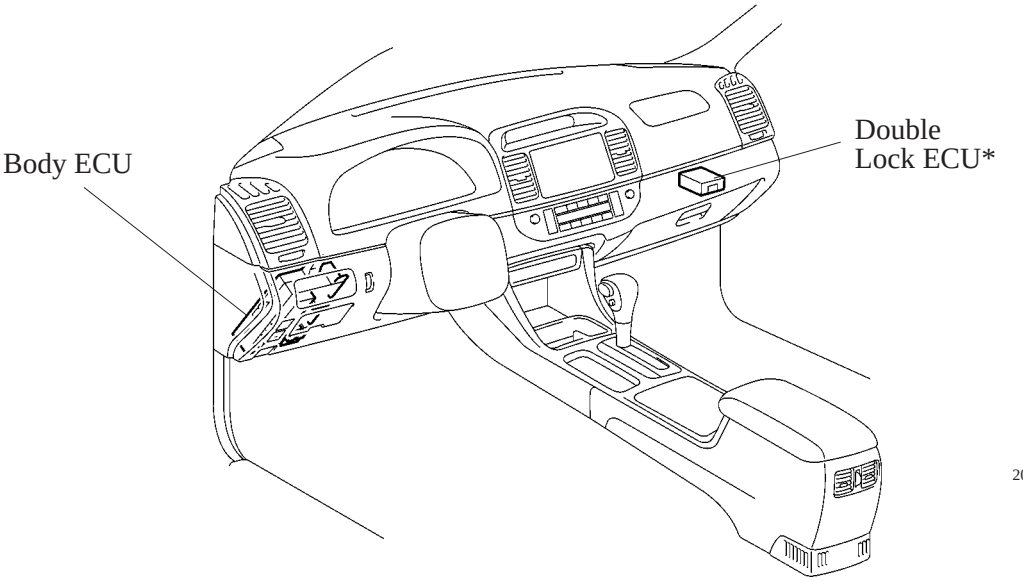
▶ System Diagram ◀



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*: Only for The European RHD Model

▶ Layout of Main Component ◀



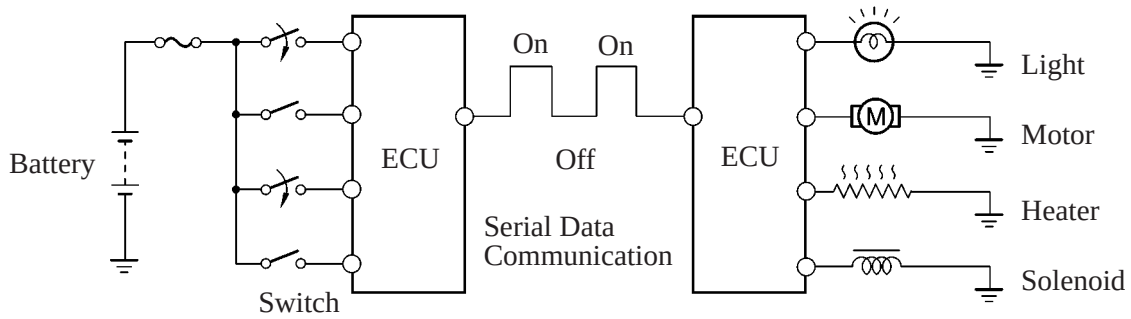
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*: Only for The European RHD Model

2. System Outline

In the conventional system, electrical loads such as motors and lights were directly connected by wire harness to their switches which controlled their operation. However, in the multiplex communication system, the wire harness is replaced by serial data communication by the ECU, to provide functions similar to the conventional system, through a single serial communication bus. With this system, even when multiple tasks demand additional switches and electrical loads, communication among ECUs can be implemented through the serial communication bus only, resulting in the only reduction in wire harnesses.

▶ Conceptual Drawing of Multiplex Communication System ◀



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Multiplex Communication System



Conventional System

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