

OCCUPANT DETECTION SYSTEM

SEAT

3. Occupant Detection System

A: GENERAL

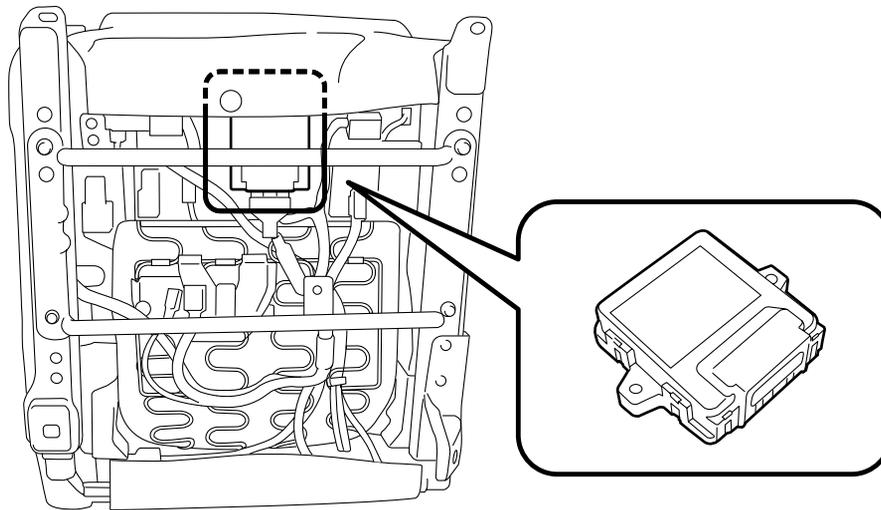
The passenger's seat is equipped with an occupant detection system, which consists of an occupant detection control module and four loadcell sensors, etc.

The occupant detection system sends signals to control the deployment of the passenger's seat airbag when a child or small person is sitting in the passenger's seat.

B: SYSTEM CONFIGURATION

The components of the occupant detection system are integrated as a seat cushion frame assembly; the assembly cannot be disassembled and the components cannot be replaced separately.

1. OCCUPANT DETECTION CONTROL MODULE

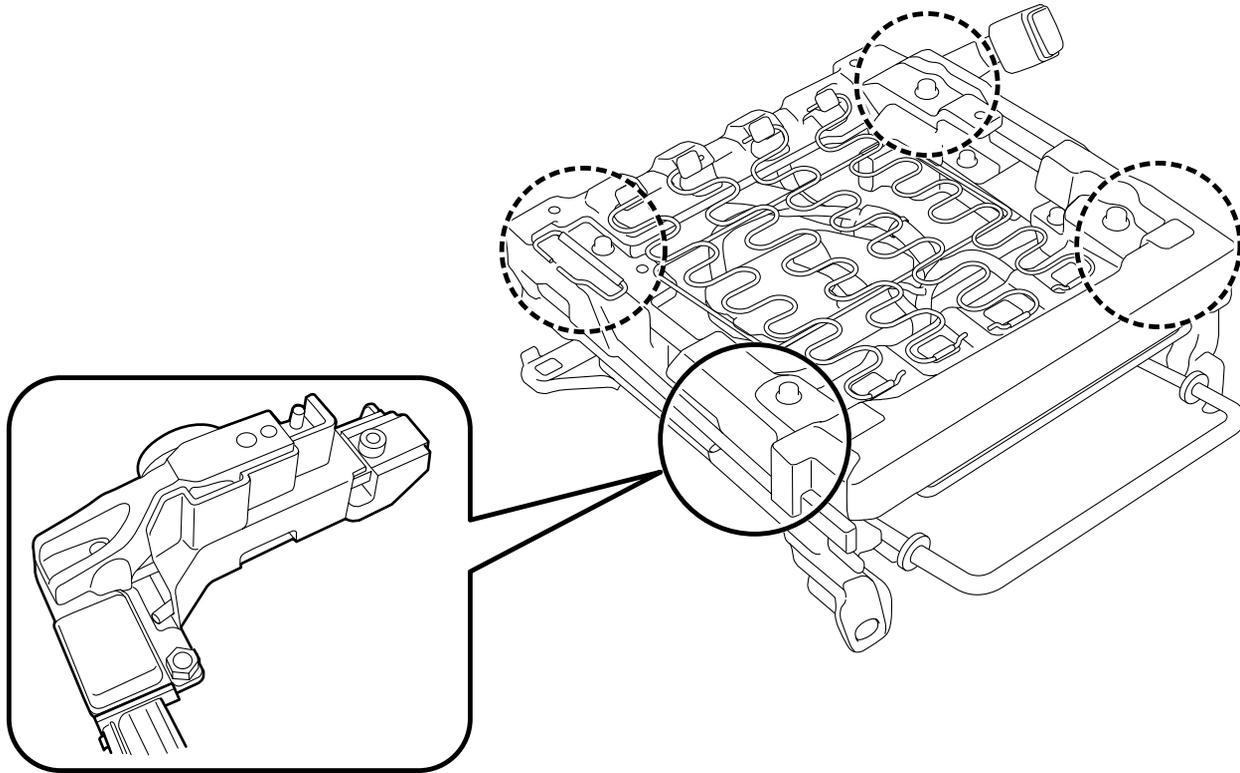


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The occupant detection control module is installed under the passenger's seat and detects the presence/absence and physique of the person sitting in the passenger's seat based on signals sent from the loadcell sensors to send signals to the airbag control module.

If there is any abnormality in the occupant detection control module, the airbag warning light in the combination meter illuminates to warn the driver of system abnormality. Diagnostic trouble codes can be read by using a Subaru select monitor.

2. LOADCELL SENSOR



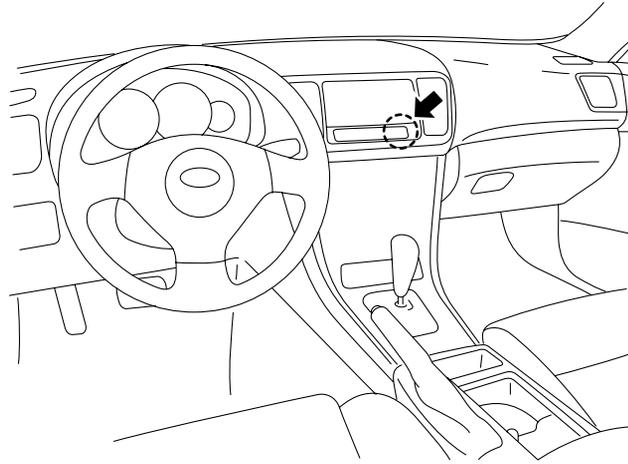
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Four loadcell sensors are installed on the passenger's seat and each sensor measures the load to send signals to the load occupant detection control module.

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3. PASSENGER'S SEAT AIRBAG INDICATOR



SE-00477

The passenger's seat airbag indicator light is built in the center part of the instrument panel. The light indicates the result judged by the occupant detection control module.

Depending on the occupant detection control module's decision, the passenger's seat airbag may not deploy even in case of a frontal collision, however, the driver's seat airbag will deploy and the driver/passenger seat belt pretensioners are controlled to activate. Also, the driver/passenger seat side airbags and the left/right curtain airbags are controlled to activate.

For initial check of the occupant detection system, both the ON (will deploy) and OFF (will not deploy) indicators will illuminate for about 6 seconds after the ignition switch is turned ON, and then turns OFF simultaneously for 2 seconds.