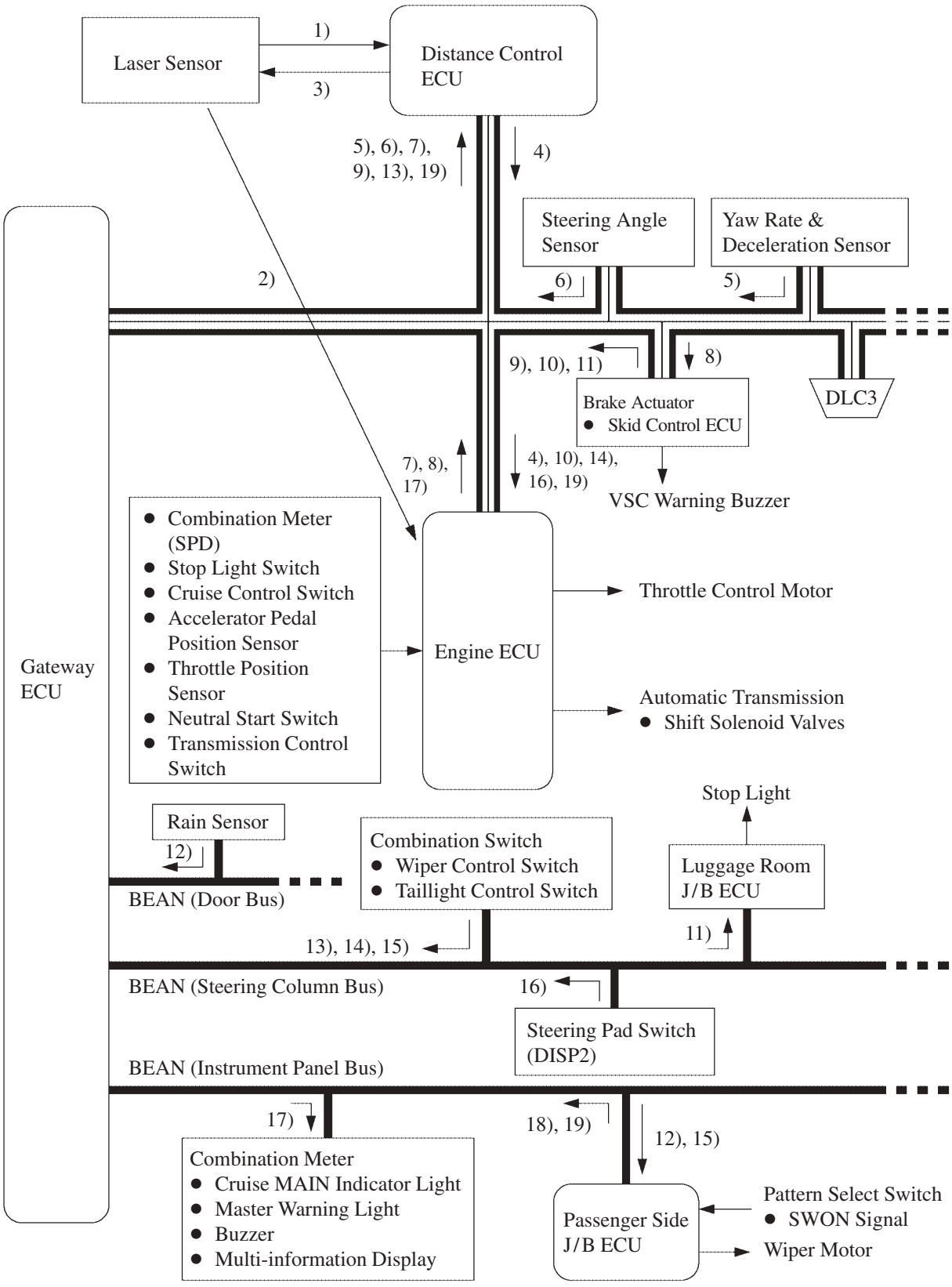
## 2. System Diagram




259LSW38

| No. | Transmit | Receive | Data List | Communication |
|---|---|---|---|---|
| 1) | Laser Sensor | Distance Control ECU | ● Vehicle-to-Vehicle Distance<br>● Presence of Vehicle Ahead<br>● Relative Acceleration Rate<br>● Relative Vehicle Speed<br>● Width and Position of Object Ahead<br>● Diagnosis Data | Serial |
| 2) | | Engine ECU | Laser Sensor Operation Signal | Wire |
| 3) | Distance Control ECU | Laser Sensor | ● Actual Vehicle Speed<br>● Estimated Curve Radius<br>● Laser Sensor Illumination Request<br>● Wiper Condition<br>● Cruise Control Switch<br>● Taillight Control Switch<br>● Set Distance<br>● Beam Axis Adjustment Data | Serial |
| 4) | | Engine ECU | ● Target Acceleration Rate<br>● Target Deceleration Rate<br>● Vehicle-to-Vehicle Distance<br>● Presence of Vehicle Ahead<br>● Brake Request<br>● Beam Axis Deviation<br>● Laser Sensor Dirtiness Detection<br>● Poor Weather Detection<br>● Proximity Warning<br>● Gear Request<br>● Diagnosis Data | CAN |
| 5) | Yaw Rate & Deceleration Sensor | Distance Control ECU | Yaw Rate | |
| 6) | Steering Angle Sensor | | Steering Angle | |
| 7) | Engine ECU | | ● Vehicle-to-Vehicle Distance Control Mode Switching<br>● Setting Vehicle Speed<br>● Actual Vehicle Speed<br>● Cruise Control Switch (MAIN Switch)<br>● Set Distance<br>● Brake Request Response<br>● Accelerator Pedal Idle<br>● Stop Light Signal<br>● Transmission Information | |
| 8) | | Skid Control ECU | ● Target Deceleration Rate<br>● Target Deceleration Rate Gradient<br>● Brake Request | |

| No. | Transmit | Receive | Data List | Communication |
|---|---|---|---|---|
| 9) | Skid Control ECU | Distance Control ECU | Zero Point Information of Yaw Rate | CAN |
| 10) | | Engine ECU | ● Cruise Control Cancel Request<br>● Brake Request Response | |
| 11) | | Luggage Room J/B ECU | Stop Light Illuminate Request | |
| 12) | Rain Sensor | Passenger Side J/B ECU | Raindrop Volume | BEAN |
| 13) | Combination Switch | Distance Control ECU | ● Wiper Control Switch<br>● Taillight Control Switch | BEAN and CAN |
| 14) | | Passenger Side J/B ECU | Wiper Control Switch | BEAN |
| 15) | | Engine ECU | Wiper Control Switch | BEAN and CAN |
| 16) | Steering Pad Switch (DISP2) | | Steering Pad Switch (DISP2) | |
| 17) | Engine ECU | Combination Meter | ● Cruise Control Switch<br>● Steering Pad Switch<br>● Proximity Warning<br>● Warning | |
| 18) | Passenger Side J/B ECU | Distance Control ECU | Wiper Operation | |
| 19) | | Engine ECU | Pattern Select Switch | |