4) Overtaking speed faster than 15km/h.



Blind-Spot Collision Warning (BCW) System

Blind-Spot Collision Warning (BCW) System Service Tins (1) Circuit Description 4. Prohibition conditions of BCW System 1) When front of radar is covered with obstacles. Blind Spot Collision Warning System operates BCW (Blind Spot Collision message output 2) When location of radar mounted is distorted by external shocks. (Fault code sent) Collision 3) BCW & LCA system failure. (fault code sent) 4) Radar overheating. (the system state - over temperature) message output installed on the left and right backside of vehicle · LCA System mode operation · Rear And Side Warning Radar (BCW & LCA) 1. When start engine with switch in OFF, LCA system is OFF mode. BCW radar is Phase Mono-Pulse of FMCW (Frequency Modulation 2. When press the ON switch from OFF mode, LCA system goes to passive mode. Continuous Wave). ECU and sensors are integrated module. 3. When start engine with switch in ON, LCA system is passive mode 1. BCW & LCA control sequence 4. While driving, if activation conditions (Speed, Change of curvature) is satisfied, 1) Driver controls BCW switch. (ON / OFF) LCA system mode changes from passive to active mode. (alert ON) 2) BCW & LCA sensor detects rear and side of the vehicle. 5. While driving, if activation conditions (Speed, Change of curvature) is not - Calculates position and velocity of rear vehicle using current vehicle's satisfied, LCA system goes to passive mode. (alert OFF) spee d signa I and yaw sensor 6. When LCA system is malfunction in any mode, LCA system mode changes to failure mode 3) Alert algorithm 7. When LCA system operates normally in failure mode, LCA system mode - Check the alert entry conditions using current vehicle's speed signal and changes to OFF mode. 8. When OFF switch is pressed while LCA system in Active/Passive - When BCW or LCA warning condition is satisfied, outputs alert. LCA system mode changes to OFF mode 2. Activation conditions of sensors 1) BCW Switch : Switch ON (LED Illuminates) Sensor Alignment 2) Speed: Faster than 30km/h. Sensor's recognizing with drive direction of 3) Change of curvature : Longer than 170m. 3. Deactivation conditions of sensors BCW sensor alignment is matching direction of the vehicle 1) BCW Switch : Switch OFF. (LED Illuminates) false alarm or Without performing BCW sensor alignment, it may causes 2) Speed: Slower than 30km/h. system malfunction due to poor detection performance 3) Change of curvature : Shorter than 150m.

* Auto-alignments must be done for bumper accident vehicle.