PARKING SENSOR

OWNERS MANUAL

Please read this manual for proper operation and keep it for future reference.

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PARKING SENSOR

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SECTION 1.0

Introduction

1.1 Operating Instructions

- This Toyota Innova is equipped with a system that facilitates parking manoeuvres in reverse and forward by detecting any obstacles that could damage the car.
- This system is equipped with two audible warning device which produce low pitch acoustic for front detection and high pitch for rear detection.
- Any obstacle detected is indicated by an intermittent beep signal, which increases in frequency until it becomes a continuous beep as the vehicle moves near to the obstacle itself.

Note:
When the gear is at "P" or "N" position, front sensor is also activated except parking brake is "ON".

SECTION 2.0

User Instructions

2.1 System Operating Condition

CONDITIONS			FRONT SENSOR	REAR SENSOR
MAIN SWITCH (LED)	GEAR POSITION	PARKING BRAKE / SPEED		
ON (LED ON)	Reverse (R)	Parking Brake OFF & vehicle speed less than approx. 15km/h	ON	ON
		Parking Brake ON or vehicle speed more than or equal to approx. 15km/h	OFF	ON
	*Except Reverse (R)	Parking Brake OFF & vehicle speed less than approx. 15km/h	ON	OFF
		Parking Brake ON or vehicle speed more than or equal to approx. 15km/h	OFF	OFF
OFF (LED OFF)	Reverse (R)	All Mode	OFF	ON
	*Except Reverse (R)	All Mode	OFF	OFF

* Parking Brake and Speed are only applicable to Front Sensor.

SECTION 2.0

User Instructions

2.1 System Operating Condition

Note :

- LED in main switch turns "ON" and "OFF" alternatively by pushing the main switch button.
- When the main switch button is pushed "ON" side, LED in the switch turns "ON", and front speaker makes a distinct pattern of beep sound depending on which front sensor is disconnected. Refer Table 1 below for more detail.
- When the gear is shifted to reverse, rear speaker makes a distinct pattern of beep sound depending on which rear sensor is disconnected. Refer Table 1 below for more detail.

Table 1: Sensor Diagnostic Alert Pattern

SENSOR	ALERT PATTERN
Left Sensor Disconnected	Speaker emit a single short beep followed by 5 repeated single beep
Right Sensor Disconnected	Speaker emit a single short beep followed by 5 repeated two single beep
Left & Right Sensor Disconnected	Speaker emit a single short beep followed by 5 repeated three single beep
No Sensor Disconnected	Speaker emit a single short beep

SECTION 2.0

User Instructions

2.2 Detection Zone

Sensor / Detection	Front FL, FR	Rear RL, RR	BEEP SIGNAL
Zone 1	Approx. 0.00 to 0.45m	Approx. 0.00 to 0.51m	The buzzer gives continuous beep if an obstacle is detected.
Zone 2	Approx. 0.45 to 0.68m	Approx. 0.51 to 0.76m	The buzzer gives intermittent beep (8 beeps / sec) if an obstacle is detected.
Zone 3	Approx. 0.68 to 0.91m	Approx. 0.76 to 1.67m	The buzzer gives intermittent beep (5 beeps / sec) if an obstacle is detected.

2.3 General Recommendation

- This device is a parking aid but the driver must ultimately be responsible for evaluating obstacles.
- High speed manoeuvres using this device may prevents the obstacles from being detected in time.
- In certain circumstances, awkward obstacles, such as very low, thin, small or pointed ones may not be detected.
- To avoid faulty operation, mud and dirt must be cleaned from the sensors. Do not use hard or pointed objects to clean the sensors.
- Objects directly underneath the bumpers cannot be detected. Some objects located lower than the ultrasonic sensors, or thin objects, may not be detected as the vehicle comes close to these objects.
- Objects might not be detected if the vehicle is too close.

SECTION 3.0

Warranty Conditions

3.1 Warranty

- Warranty coverage is limited to the use of the system. Damage caused by collisions due to incorrect signals, (or lack of signals), improper use of the warning signal or driving errors are excluded from the warranty.
- The product is covered as per your vehicle warranty terms and conditions.
- The warranty shall not apply if the product has been damaged due to be any other causes other than those described as manufacturing defects.
- Refer any matters relating to this warranty to your authorized dealer / service branch.

3.2 Customer Care

For further information on the system, please contact your nearest UMW Toyota Motor Service Branch or:

CUSTOMER RELATIONS MANAGEMENT (CRM)
No. 2, Persiaran Raja Muda, Section 15,
40200 Shah Alam, Selangor Darul Ehsan.

Toyota Freephone : 1800-8-TOYOTA (869682)

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