OEMBO O

SYSTEM DESCRIPTION

1. ☐ GENERAL

(a) This [system uses ultrasonic sensors to detect any obstacles at the corners, the front or the rear of the vehicle. The system then informs the driver of the distance between the sensors and the obstacles, as well as their positions by displaying them on the multi-information display in the combination meter and by sounding buzzer. This information also appears on the multi-display on the models of a purpose with LEXUS havigation system.

2. FUNCTIONS OF COMPONENTS

Components	Function
Ultrasonic[Sensor	Ultrasonicsensorconsistsofasensorportionthateransmitsandieceivesultrasonicsensorconsistsofasensorportionthateransmitsandieceivesultrasonicsensorconsistensorconsis
Clearance[\$onar[]Main[\$witch	Turns[the[c]earance[s]onar[s]ystem[c]n[and[c]ff.
Buzzer[[No.1[&[]No.2)	Emits@niintermittent@ound@o@nform@he@river@hat@he@ECU@has@detected@an@bstacle@within@prescribed@ange.
Clearance[Warning[ECU[Assy	Judges[ihe@approximate@distance@between@he@ehicle@and@he@bstacle@based@n the@signals@rom@he@iltrasonic@ensors@and@ends@he@display@signal@o@he@display panel@and@buzzer@signal@o@he@buzzer.
Gateway[ECU	Sends[the@display[signal]of[the@learance[warning]ECU[assy[]o[the@ombination meter[and[the@nulti-display.] hesignalfor[the@nulti-display]s@utput[by@onverting it[]o[an[AVC-LAN[signal.]
Combination[Meter[Multi-information[Display) & Multi-display	Displays[]he[]location[]pfr]]he[]pbstacle[]and[]he[]approximate[]distance[]between[]he vehicle[]and[]he[]pbstacle.[]pn[]he[]hulti-display,[]he[]sound[]yolume,[]buzzer[]sounding distance,[]and[]sensor[]pperating[]condition[]can[]be[]set[]pn[]he[]setup[]screen[]or[]his system.

3. OPERATION EXPLANATION

- (a) Thecelearance warning ECU assydetermines whether the celearance sonar system should be operated or not based on the celearance sonar main witch, the shift position, the vehicle speed and the engine speed signals.
- (b) When the system operates, the clearance warning ECU transmits ultrasonic waves from the ultrasonic sensor. If these waves encounter an obstacle within the sensor and ange, the waves are reflected back to the sensor, which transmits them to the clearance warning ECU assy.

 Based on this information, the clearance warning ECU assy sends signals to the multi-information display, the multi-display and the clearance warning buzzer. The appropriate distance between the vehicle and the obstacle is then displayed, and the buzzer sounds.

HINT:

Refer[]o[]OPERATION[CHECK"[]or[detailed[operation[]see[]page[05-2218)[]