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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: PARK ASSIST / MONITORING: INTUITIVE PARKING ASSIST SYSTEM: DATA LIST / ACTIVE TEST; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DATA LIST / ACTIVE TEST

DATA LIST

NOTICE:

In the table below, the values listed under "Normal Condition" are reference values. Do not depend solely on these reference values when deciding whether a part is faulty or not.

Body Electrical > Clearance Warning > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Total Distance Traveled	Total distance traveled	1 to 999999	Same as actual total distance traveled	For the unit, refer to "Total Distance Traveled - Unit"
Total Distance Traveled - Unit	Total Distance Traveled - Unit	Km/mile	km	-
PKSA (O) Equipped Information	Intuitive parking assist system installation information	Without/With/Unknown	Without: w/o Intuitive parking assist system With: w/ Intuitive parking assist system Unknown: Unknown	-
PKSB (O) Equipped Information	Parking Support Brake (static objects) function installation information	Without/With/Unknown	Without: Without parking support brake (static objects) function With: With parking support brake (static objects) function Unknown: Unknown	-
PKSB (V) Equipped Information	Parking support brake (rear crossing	Without/With/Unknown	Without: No parking support	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
	vehicles) installation information		brake (rear crossing vehicles) With: Parking support brake (rear crossing vehicles) Unknown: Unknown	
PKSB (P) Equipped Information	Parking support brake (rear pedestrians) installation information	Without/With/Unknown	Without: No parking support brake (rear pedestrians) With: Parking support brake (rear pedestrians) Unknown: Unknown	-
S-IPA Equipped Information	S-IPA installation information	Without/With/Unknown	Without: Without simple intelligent parking assist system With: With simple intelligent parking assist system Unknown: Unknown	-
IPA2 Equipped Information	IPA2 installation information	Without/With/Unknown	Without: Without intelligent parking assist system With: With intelligent parking assist system Unknown: Unknown	-
Ultrasonic Sensor (Side) Alarm Equipped Information	Side sensor alarm function installation information	Without/With/Unknown	Without: Without catching warning function With: With catching warning function Unknown: Unknown	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Parking Signal	Shift position P input signal	ON/OFF	ON: Shift position in P OFF: Shift position not in P	-
Reverse Signal	Shift position R input signal	ON/OFF	ON: Shift position in R OFF: Shift position not in R	-
Vehicle Information (Steering Wheel Position)	Steering wheel installation location	Right/Left/Unknown	Right: RHD Left: LHD Unknown: Steering wheel information not determined	-
Vehicle Information (Conv/HV/EV)	Vehicle information	Conv, HV/EV or Unknown	Conv: Gasoline Model HV/EV: HV or EV Model Unknown: Vehicle information not determined	-
PKSA (O) Center Display Indication Control Rear Camera	Intuitive parking assist (static objects) function center display control-equipped rear camera connection information	Not connected/Connected	Not connected: No camera connection history Connected: Camera connection history	-
Advanced Park Equipped Information	Advanced park installation information	Without/With (Semi-Automatic)/With (Full-Automatic)/Unknown	Without: w/o Advanced Park With (Semi-Automatic): w/ Advanced Park (Semi-Automatic) With (Full-Automatic): w/ Advanced Park (Full-Automatic) Unknown: Vehicle information not	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			determined	
Remote Park Equipped	Displays whether the vehicle is equipped with advanced park	Without/With/Unkown	Without: w/o Advanced Park With: w/ Advanced Park Unknown: Unknown	-
PKSB Variation	Displays the parking support brake version information	Without PKSB/With PKSB/With PKSB(Spec for Heavily Trafficked Area)/With PKSB (Only Rear)/Unkown	Without PKSB: w/o Parking Support Brake System With PKSB: w/ Parking Support Brake System With PKSB (Spec for Heavily Trafficked Area): w/ Parking Support Brake System (Spec for Heavily Trafficked Area) With PKSB (Only Rear): w/ Parking Support Brake System (Only Rear) Unknown: Unknown	-
Trailer Connection (Trailer Brake Control)	Displays information on trailer connection information (trailer brake control)	Not Connected or Connected	Not Connected: Trailer connection information (trailer brake control) function does not exist Connected: "Trailer connection information (trailer brake control) function exists"	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Trailer Connection (Rear Side Radar Sensor)	Displays information on trailer connection information (rear side radar sensor)	Not Connected or Connected	Not Connected: Trailer connection information (rear side radar sensor) function does not exist Connected: "Trailer connection information (rear side radar sensor) function exists"	-
Navigation Control Module Equipped	Navigation control module installation information	Without/With/Unknown	Without: w/o Navigation System With: w/ Navigation System Unknown: Vehicle information not determined	-
Multi Display Size	Multi display size information	Not Wide Size Display/Wide Size Display/Unknown	Not Wide Side Display: w/o Wide Size Display Wide Side Display: w/ Wide Size Display Unknown: Vehicle information not determined	-
Rear Camera Equipped	Rear camera installation information	Without/With/Unknown	Without: w/o Back Monitor With: w/ Back Monitor Unknown: Vehicle information not determined	-
Rear Camera Type	Rear camera type information	BM/BGM/Unknown	BM: w/ Back Monitor System BGM: w/ Back Guide Monitor System	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Unknown: Vehicle information not determined	
Pedestrian Detection Function Equipped	Pedestrian Detection Function installation information	Without/With (Matsu Camera)/With (Panoramic View Monitor)/Unknown	Without: w/o Pedestrian detection function With: w/ (Matsu) Camera (w/ Pedestrian detection function) With: w/ Panoramic View Monitor System (w/ Pedestrian detection function) Unknown: Vehicle information not determined	-
Slope Equipped	Displays information on whether an access ramp is installed to the vehicle	Without/With/Unkown	Without: Access ramp not installed With: Access ramp installed Unknown: Unknown	-
Trailer Specification (Trailer Brake Control)	Displays information on trailer specification information (trailer brake controller)	Without/With	Without: Trailer specification information (trailer brake control) does not exist With: Trailer specification information (trailer brake control) exists	-
Trailer Specification (Rear Side Radar Sensor)	Displays information on trailer specification information (rear side radar sensor)	Without/With	Without: Trailer specification information (rear side radar sensor) does not exist With: Trailer specification	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			information (rear side radar sensor) exists	
PKSA (O) Main Switch	Displays the set value of the PKSA (O) main switch	ON/OFF	ON: PKSA ON OFF: PKSA OFF	-
Ultrasonic Sensor (Front Left Center) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Normal: System enabled	-
Ultrasonic Sensor (Front Right Center) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle:	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Medium distance detection Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled	
Ultrasonic Sensor (Front Left Corner) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Close: Closest-range detection Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled	
Ultrasonic Sensor (Front Right Corner) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Front Left Side) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled	-
Ultrasonic Sensor (Front Right Side) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection Obstacle Detection Far:	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled	
Ultrasonic Sensor (Rear Left Center) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection Temporary malfunction: Foreign matter	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled	
Ultrasonic Sensor (Rear Right Center) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled Malfunction: Sensor system malfunction Normal: System enabled	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Rear Left Corner) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled Malfunction: Sensor system malfunction	-
Ultrasonic Sensor (Rear Right Corner) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled	
Ultrasonic Sensor (Rear Left Side) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled	
Ultrasonic Sensor (Rear Right Side) Information	Detection range of the ultrasonic sensor	Not Displayed/Obstacle Detection Close/Obstacle Detection Middle/Obstacle Detection Far/Obstacle Detection Farthest/Obstacle Detection Most Close/Temporary Malfunction/Malfunction/Normal	Not Displayed: No detection Obstacle Detection Close: Close distance detection Obstacle Detection Middle: Medium distance detection Obstacle Detection Far: Long distance detection Obstacle Detection Farthest: Longest-range detection Obstacle Detection Most Close: Closest-range detection Temporary malfunction: Foreign matter attached to sensor resulting in temporary malfunction Malfunction: Sensor system malfunction Normal: System enabled	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Front Left Center) Target Distance - First Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 7.65 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 7.65 m: Detected distance	-
Ultrasonic Sensor (Front Left Center) Target Distance - Second Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 7.65 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 7.65 m: Detected distance	-
Ultrasonic Sensor (Front Right Center) Target Distance - First Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 7.65 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 7.65 m: Detected distance	-
Ultrasonic Sensor (Front Right Center) Target Distance - Second Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 7.65 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 7.65 m: Detected distance	-
Ultrasonic Sensor (Front Left Corner) Target Distance - First Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 5.1 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 5.1 m: Detected distance	-
Ultrasonic Sensor (Front Left Corner) Target Distance - Second Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 5.1 m	Unknown: Outside sensor operation conditions Not Detected: Not detected	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			0 to 5.1 m: Detected distance	
Ultrasonic Sensor (Front Right Corner) Target Distance - First Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 5.1 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 5.1 m: Detected distance	-
Ultrasonic Sensor (Front Right Corner) Target Distance - Second Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 5.1 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 5.1 m: Detected distance	-
Ultrasonic Sensor (Rear Left Center) Target Distance - First Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 7.65 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 7.65 m: Detected distance	-
Ultrasonic Sensor (Rear Left Center) Target Distance - Second Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 7.65 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 7.65 m: Detected distance	-
Ultrasonic Sensor (Rear Right Center) Target Distance - First Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 7.65 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 7.65 m: Detected distance	-
Ultrasonic Sensor (Rear Right Center) Target	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 7.65 m	Unknown: Outside sensor operation conditions	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Distance - Second Wave			Not Detected: Not detected 0 to 7.65 m: Detected distance	
Ultrasonic Sensor (Rear Left Corner) Target Distance - First Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 5.1 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 5.1 m: Detected distance	-
Ultrasonic Sensor (Rear Left Corner) Target Distance - Second Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 5.1 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 5.1 m: Detected distance	-
Ultrasonic Sensor (Rear Right Corner) Target Distance - First Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 5.1 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 5.1 m: Detected distance	-
Ultrasonic Sensor (Rear Right Corner) Target Distance - Second Wave	Distance from the ultrasonic sensor to the target	Unknown, Not Detected or 0 to 5.1 m	Unknown: Outside sensor operation conditions Not Detected: Not detected 0 to 5.1 m: Detected distance	-
PKSB Main Switch	Input signal for parking support brake system	OFF or ON	OFF: Parking support brake system OFF ON: Parking support brake system ON	-
PKSB (O) Operation Status	Displays the operation status of	OFF/ON	OFF: PKSB (O) function of the	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
by Off-road Function	PKSB (O) of the off-road function		off-road function off ON: PKSB (O) function of the off-road function on	
Plus Support Mode Decision	Displays the plus support judgement	OFF/ON	OFF: w/o Plus Support ON: w/ Support ON	-
IPA Main Switch Press Status	Displays the IPA main switch push status	OFF/ON	OFF: IPA main switch not being pushed ON: IPA main switch being pushed	-
Advanced Park Main Switch Press Status	Displays the advanced park main switch push status	OFF/ON	OFF: IPA main switch not being pushed ON: IPA main switch being pushed	-
Tire Diameter (After Adjustment) Variation No.	Displays the tire diameter variation	TIRE-0/TIRE-1/TIRE-2/TIRE-3/TIRE-4/TIRE-5/TIRE-6/TIRE-7/TIRE-8/TIRE-9/TIRE-10/TIRE-11/TIRE-12/TIRE-13/TIRE-14/TIRE-15	Displays the tire settings value	-
Accumulated Time of System Control Maintain Brake (During Advanced Park Control)	Displays the brake hold accumulated time controlled by advanced park	0 to 765 minutes	Displays the brake hold accumulated time	-
Detection Count of Get Out the Vehicle (During Advanced Park Control)	Displays the number of times the vehicle was excited when advanced park control was operating	0 to 255	Displays the number of times the vehicle was exited	-
Compatible with AVN (Advanced	Displays whether compatible with AVN	Yes/No	No: Not compatible with	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Park)	(Advanced park)		AVN (advanced park) Yes: Compatible with AVN (advanced park)	
Bumper Type	Displays the bumper type	Unkown/1/2	Unknown: Vehicle information not determined 1: Standard 2: Sports	-
Adjustment Mode	Adjustment mode	Normal mode/Dealer mode	Normal mode: Not dealer adjustment mode Dealer mode: Dealer adjustment mode	-
Ultrasonic Sensor (Front Center) Detection Range	Sets the detection operation range for the front center sensors.	Close/Far	Customized setting	-
Ultrasonic Sensor (Front Corner) Detection Range	Sets the detection operation range for the front corner sensors.	Close/Far	Customized setting	-
Ultrasonic Sensor (Rear Center) Detection Range	Sets the detection operation range for the rear center sensors.	Close/Far	Customized setting	-
Ultrasonic Sensor (Rear Corner) Detection Range	Ultrasonic sensor (rear corner) detection range	Close/Far	Customized setting	-
Clearance Warning Buzzer Volume	Volume setting of the clearance warning buzzer	Volume 1, Volume 2 or Volume 3	Customized setting	-
PKSA (O) Forward Detection Image Display	Detection status display setting for the clearance sonar function, when an	Display/Hide	Customized setting	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
	obstacle is detected while driving the vehicle forward			
Ultrasonic Sensor Actuation (Shift N)	Operation ON/OFF setting for the ultrasonic sensor when shift position is in N	OFF/ON	Customized setting	-
PKSA (O) Switch State Stored	Intuitive parking assist system switch state stored function	Not Stored/Stored	Customized setting	-
PKSA (O) Judgment of Obstacle on Course	Displays the automatic mute ON judgment setting under automatic mute conditions for the intuitive parking assist (static objects) function automatic mute function	Valid/Invalid	Customized setting	-
PKSA (O) Auto Mute Function	Function to display objects as defined in the automatic mute settings when the intuitive parking assist conditions are met	OFF/ON	Customized setting	-
PKSA (O) Image Display when Away from the Obstacle	Function to display detected objects when the vehicle is moving away from the objects	Hide/Display	Customized setting	-
Ultrasonic Sensor (Side) Alarm Function	Catching warning function setting	OFF/ON	Customized setting	-
Ultrasonic Sensor (Side) Alarm Detection Range	Sets onset range of catching warning	Close/Far	Customized setting	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Voice Guidance Function	Status of the voice guidance function	OFF/ON	OFF: Voice guidance function off ON: Voice guidance function on	-
PKSB (O) Function	Status of parking support brake (front and rear static objects) function	OFF/ON	ON: Parking support brake (front and rear static objects) function ON OFF: Parking support brake (front and rear static objects) function OFF	-
PKSB (O) Target Stopping Distance	Target stop distance setting status of parking support brake (front and rear static objects) function	Close/Far	Customized setting	-
PKSB Switch State Stored	Setting of the parking support brake system main switch status memory	Stored/Not stored	Customized setting	-
PCS Cooperate Function	Status of pre-collision system cooperate function	OFF/ON	ON: Pre-collision system cooperate function ON OFF: Pre-collision system cooperate function OFF	-
PKSB (V) Function	Status of parking support brake (rear vehicles) function	OFF/ON	ON: Parking support brake (rear vehicles) function ON OFF: Parking support brake (rear vehicles) function OFF	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
PKSB (V) Operation Timing Setting	Displays the operation timing setting of the parking support brake (rear vehicles) function	Late/Standard	Late: Late timing Standard: Standard timing	-
PKSB (V) Sensitivity	Displays the sensitivity setting of the parking support brake (rear vehicles) function	Standard/Low	Standard: Standard sensitivity Low: Low sensitivity	-
PKSB (P) Function	Setting of the parking support brake (rear pedestrians) function	OFF/ON	ON: Parking support brake (rear pedestrians) function ON OFF: Parking support brake (rear pedestrians) function OFF	-
PKSB (P) Target Stopping Distance	Setting of the activation timing of the parking support brake (rear pedestrians) function	Close/Normal	Close: Near Normal: Normal	-
PKSB (P) Width Adjustment (Y Axis)	Setting of the sensitivity of the parking support brake (rear pedestrians) function	Narrow/Normal	Narrow: Near Normal: Normal	-
IPA Obstacle Avoidance Distance	Displays IPA obstruction avoidance distance	Narrow/Normal/Wide/Wide2	Setting of customized parameter	-
IPA Perpendicular Parking Control Area	Displays the IPA control possible area (perpendicular parking)	Narrow/Normal/Wide/Wide2	Setting of customized parameter	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
IPA Parallel Parking Control Area	Displays the IPA control possible area (parallel parking)	Narrow/Normal/Wide/Wide2	Setting of customized parameter	-
Tire Circumference Setting	Displays circumference of tire	Short3, Short2, Short1, Standard, Long, Long2 or Long3	Short3: Compensation amount -15 mm Short2: Compensation amount -10 mm Short1: Compensation amount -5 mm Standard: Compensation amount 0 mm Long1: Compensation amount +5 mm Long2: Compensation amount +10 mm Long3: Compensation amount +15 mm	-
Advanced Park Perpendicular Parking Control Area	Displays the advanced park control possible area (perpendicular parking)	Narrow/Normal/Wide/Wide2	Setting of customized parameter	-
Advanced Park Parallel Parking Control Area	Displays the advanced park control possible area (parallel parking)	Narrow/Normal/Wide/Wide2	Setting of customized parameter	-
Clearance Warning Buzzer Volume (Guest)	Displays the set value of the clearance warning buzzer volume (guest)	Volume1/Volume2/Volume3	Setting of customized parameter	-
Clearance Warning Buzzer Surround (Guest)	Displays the set value of the clearance warning	OFF/ON	Setting of customized parameter	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
	buzzer surround (guest)			
PKSA (O) Main Switch (Guest)	Displays the set value of the PKSA (stationary object) main switch (guest)	OFF/ON	Setting of customized parameter	-
PKSB (O) Main Switch (Guest)	Displays the set value of the PKSB (stationary object) main switch (guest)	OFF/ON	Setting of customized parameter	-
Clearance Warning Buzzer Volume (Driver1)	Displays the set value of the clearance warning buzzer volume (driver 1)	Volume1/Volume2/Volume3	Setting of customized parameter	-
Clearance Warning Buzzer Surround (Driver1)	Displays the set value of the clearance warning buzzer surround (driver 1)	OFF/ON	Setting of customized parameter	-
PKSA (O) Main Switch (Driver1)	Displays the set value of the PKSA (stationary object) main switch (driver 1)	OFF/ON	Setting of customized parameter	-
PKSB (O) Main Switch (Driver1)	Displays the set value of the PKSB (stationary object) main switch (driver 1)	OFF/ON	Setting of customized parameter	-
Clearance Warning Buzzer Volume (Driver2)	Displays the set value of the clearance warning buzzer volume (driver 2)	Volume1/Volume2/Volume3	Setting of customized parameter	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Clearance Warning Buzzer Surround (Driver2)	Displays the set value of the clearance warning buzzer surround (driver 2)	OFF/ON	Setting of customized parameter	-
PKSA (O) Main Switch (Driver2)	Displays the set value of the PKSA (stationary object) main switch (driver 2)	OFF/ON	Setting of customized parameter	-
PKSB Main Switch (Driver2)	Displays the set value of the PKSB (stationary object) main switch (driver 2)	OFF/ON	Setting of customized parameter	-
Clearance Warning Buzzer Volume (Driver3)	Displays the set value of the clearance warning buzzer volume (driver 3)	Volume1/Volume2/Volume3	Setting of customized parameter	-
Clearance Warning Buzzer Surround (Driver3)	Displays the set value of the clearance warning buzzer surround (driver 3)	OFF/ON	Setting of customized parameter	-
PKSA (O) Main Switch (Driver3)	Displays the set value of the PKSA (stationary object) main switch (driver 3)	OFF/ON	Setting of customized parameter	-
PKSB (O) Main Switch (Driver3)	Displays the set value of the PKSB (stationary object) main switch (driver 3)	OFF/ON	Setting of customized parameter	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Clearance Warning Buzzer Volume (Plus Support)	Displays the set value of the clearance warning buzzer volume (plus support)	Volume1/Volume2/Volume3	Setting of customized parameter	-
Clearance Warning Buzzer surround (Plus Support)	Displays the set value of the clearance warning buzzer surround (plus support)	OFF/ON	Setting of customized parameter	-
PKSA (O) Main Switch (Plus Support)	Displays the set value of the PKSA (stationary object) main switch (plus support)	OFF/ON	Setting of customized parameter	-
PKSB (O) Main Switch (Plus Support)	Displays the set value of the PKSB (stationary object) main switch (plus support)	OFF/ON	Setting of customized parameter	-
Front Buzzer	Status of the No. 1 clearance warning buzzer	OFF or ON	OFF: Buzzer does not sound ON: Buzzer sounds	-
Rear Buzzer	Status of the No. 2 clearance warning buzzer	OFF or ON	OFF: Buzzer does not sound ON: Buzzer sounds	-
Software Inconsistency with ENG/HV/EV Control Module	ENG/HV/EV specification information mismatch	NO/YES	No: Specification information match Yes: Specification information mismatch	RoB X2601 is output if Yes

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Software Inconsistency with Body Control Module	Main body ECU (multiplex network body ECU) specification information mismatch	NO/YES	NO: Specification information match YES: Specification information mismatch	RoB X2603 is output if Rec
Software Inconsistency with Rear Side Rader Sensor	Blind spot monitor sensor specification information mismatch	NO/YES	NO: Specification information match YES: Specification information mismatch	RoB X2623 is output if Rec
Software Inconsistency with Rear Camera	Rear television camera assembly specification information mismatch	NO/YES	NO: Specification information match YES: Specification information mismatch	RoB X2621 is output if Rec
Memorizing Vehicle Information Not Programmed	Vehicle specification not written	Complete/Incomplete	Complete: Vehicle specification writing complete Incomplete: Vehicle specification writing incomplete	RoB X2617 is output if Incomplete
Ultrasonic Sensor (Front) ID Not Registered	Ultrasonic sensor (front) ID registration status	Registered/Not Registered	Registered: ID registered Not registered: ID not registered	RoB X20C0 is output if Not registered
Ultrasonic Sensor (Rear) ID Not Registered	Ultrasonic sensor (rear) ID registration status	Registered/Not Registered	Registered: ID registered Not registered: ID not registered	RoB X20C1 is output if Not registered
Ultrasonic Sensor (Front Side) ID Not Registered	Ultrasonic sensor (front side) ID registration status	Registered or Not registered	Registered: ID registered Not Registered: ID not registered	RoB X20C2 is output if Not Registered

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Rear Side) ID Not Registered	Ultrasonic sensor (rear side) ID registration status	Registered or Not registered	Registered: ID registered Not Registered: ID not registered	RoB X20C3 is output if Not Registered
Rear Side Radar Sensor Optical Axis Not Adjusted	Beam axis adjustment registration status of the blind spot monitor	Adjusted/No Adjusted	Adjusted: Beam axis adjusted Not Adjusted: Beam axis adjustment not registered	RoB X203B is output if Incomplete
Software Inconsistency with Brake Control Module	Skid control ECU specification information mismatch	NO/YES	No: Specification information match Yes: Specification information mismatch	RoB X2605 is output if Yes
Software Inconsistency with Image Processing Module "B"	Parking assist ECU specification information mismatch	NO/YES	No: Specification information match Yes: Specification information mismatch	RoB X262B is output if Yes
Software Inconsistency with Steering Angle Sensor Module	Steering sensor specification information mismatch	NO/YES	No: Specification information match Yes: Specification information mismatch	RoB X260D is output if Yes
Software Inconsistency with VGRS Control Module	Front steering control ECU specification information mismatch	NO/YES	No: Specification information match Yes: Specification information mismatch	RoB X2609 is output if Yes
Software Inconsistency with Gear Shift Control Module	Shift control ECU specification information mismatch	NO/YES	No: Specification information match Yes: Specification information mismatch	RoB X2629 is output if Yes
Clearance Warning ECU Low Voltage	Low voltage for clearance warning ECU assembly	Normal/Low Voltage	Normal: Clearance warning ECU assembly voltage normal	RoB X20DE is output if Low voltage

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Low voltage: Clearance warning ECU assembly voltage malfunction	
Software Inconsistency with Trailer Brake Control Module	Trailer brake control ECU specification information mismatch	NO/YES	No: Specification information match Yes: Specification information mismatch	-
Shift Position Invalid	Shift position	Normal/Invalid	Normal: Shift position normal Invalid: Shift position malfunction	RoB X20DF is output if Invalid
Zero Point Calibration of Steering Angle Sensor Undone	Steering angle sensor zero point not calibrated	Normal/Not calibration	Normal: Steering angle sensor zero point calibration complete Not calibration: Steering angle sensor zero point calibration not complete	-
Ultrasonic Sensor (Front Right Center) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20C4 is output if Rec
Ultrasonic Sensor (Front Right Center) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20C4 is output if Rec
Ultrasonic Sensor (Front Right Center) Temporarily Unavailable -	Foreign matter stuck status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on	RoB X20C4 is output if Rec

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Foreign Material Fixing			sensor	
Ultrasonic Sensor (Front Right Center) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20C4 is output if Rec
Ultrasonic Sensor (Front Right Center) Temporarily Unavailable - Flowing Water Continuously	Continuous flowing water status of the ultrasonic sensor	NO/YES	NO: No sensor continuous flowing water YES: Sensor continuous flowing water	RoB X20C4 is output if Rec
Ultrasonic Sensor (Front Left Center) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20C5 is output if Rec
Ultrasonic Sensor (Front Left Center) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20C5 is output if Rec
Ultrasonic Sensor (Front Left Center) Temporarily Unavailable - Foreign Material Fixing	Foreign matter stuck status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20C5 is output if Rec

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Front Left Center) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20C5 is output if Rec
Ultrasonic Sensor (Front Left Center) Temporarily Unavailable - Flowing Water Continuously	Continuous flowing water status of the ultrasonic sensor	NO/YES	NO: No sensor continuous flowing water YES: Sensor continuous flowing water	RoB X20C5 is output if Rec
Ultrasonic Sensor (Front Right Corner) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20C6 is output if Rec
Ultrasonic Sensor (Front Right Corner) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20C6 is output if Rec
Ultrasonic Sensor (Front Right Corner) Temporarily Unavailable - Foreign Material Fixing	Foreign matter stuck status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20C6 is output if Rec
Ultrasonic Sensor (Front Right Corner) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20C6 is output if Rec

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Front Right Corner) Temporarily Unavailable - Flowing Water Continuously	Continuous flowing water status of the ultrasonic sensor	NO/YES	NO: No sensor continuous flowing water YES: Sensor continuous flowing water	RoB X20C6 is output if Rec
Ultrasonic Sensor (Front Left Corner) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20C7 is output if Rec
Ultrasonic Sensor (Front Left Corner) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20C7 is output if Rec
Ultrasonic Sensor (Front Left Corner) Temporarily Unavailable - Foreign Material Fixing	Foreign matter stuck status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20C7 is output if Rec
Ultrasonic Sensor (Front Left Corner) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20C7 is output if Rec
Ultrasonic Sensor (Front Left Corner) Temporarily Unavailable - Flowing Water Continuously	Continuous flowing water status of the ultrasonic sensor	NO/YES	NO: No sensor continuous flowing water YES: Sensor continuous flowing water	RoB X20C7 is output if Rec

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Rear Right Center) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20C8 is output if Rec
Ultrasonic Sensor (Rear Right Center) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20C8 is output if Rec
Ultrasonic Sensor (Rear Right Center) Temporarily Unavailable - Foreign Material Fixing	Foreign matter stuck status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20C8 is output if Rec
Ultrasonic Sensor (Rear Right Center) Temporarily Unavailable - Foreign Material Fixing (Curl Up)	Foreign matter stuck (curl up) status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck (curl up) on sensor YES: Foreign matter stuck (curl up) on sensor	RoB X20C8 is output if Rec
Ultrasonic Sensor (Rear Right Center) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20C8 is output if Rec
Ultrasonic Sensor (Rear Right Center) Temporarily Unavailable - Flowing Water Continuously	Continuous flowing water status of the ultrasonic sensor	NO/YES	NO: No sensor continuous flowing water YES: Sensor continuous flowing water	RoB X20C8 is output if Rec

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Rear Left Center) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20C9 is output if Rec
Ultrasonic Sensor (Rear Left Center) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20C9 is output if Rec
Ultrasonic Sensor (Rear Left Center) Temporarily Unavailable - Foreign Material Fixing	Foreign matter stuck status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20C9 is output if Rec
Ultrasonic Sensor (Rear Left Center) Temporarily Unavailable - Foreign Material Fixing (Curl Up)	Foreign matter stuck (curl up) status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck (curl up) on sensor YES: Foreign matter stuck (curl up) on sensor	RoB X20C9 is output if Rec
Ultrasonic Sensor (Rear Left Center) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20C9 is output if Rec
Ultrasonic Sensor (Rear Left Center) Temporarily Unavailable - Flowing Water Continuously	Continuous flowing water status of the ultrasonic sensor	NO/YES	NO: No sensor continuous flowing water YES: Sensor continuous flowing water	RoB X20C9 is output if Rec
Ultrasonic Sensor (Rear Right Corner) Temporarily	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20CA is output if Rec

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Unavailable - Circuit Open				
Ultrasonic Sensor (Rear Right Corner) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20CA is output if Rec
Ultrasonic Sensor (Rear Right Corner) Temporarily Unavailable - Foreign Material Fixing	Foreign matter stuck status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20CA is output if Rec
Ultrasonic Sensor (Rear Right Corner) Temporarily Unavailable - Foreign Material Fixing (Curl Up)	Foreign matter stuck (curl up) status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck (curl up) on sensor YES: Foreign matter stuck (curl up) on sensor	RoB X20CA is output if Rec
Ultrasonic Sensor (Rear Right Corner) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20CA is output if Rec
Ultrasonic Sensor (Rear Right Corner) Temporarily Unavailable - Flowing Water Continuously	Continuous flowing water status of the ultrasonic sensor	NO/YES	NO: No sensor continuous flowing water YES: Sensor continuous flowing water	RoB X20CA is output if Rec
Ultrasonic Sensor (Rear Left Corner) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20CB is output if Rec

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Rear Left Corner) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20CB is output if Rec
Ultrasonic Sensor (Rear Left Corner) Temporarily Unavailable - Foreign Material Fixing	Foreign matter stuck status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20CB is output if Rec
Ultrasonic Sensor (Rear Left Corner) Temporarily Unavailable - Foreign Material Fixing (Curl Up)	Foreign matter stuck status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck (curl up) on sensor YES: Foreign matter stuck (curl up) on sensor	RoB X20CB is output if Rec
Ultrasonic Sensor (Rear Left Corner) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20CB is output if Rec
Ultrasonic Sensor (Rear Left Corner) Temporarily Unavailable - Flowing Water Continuously	Continuous flowing water status of the ultrasonic sensor	NO/YES	NO: No sensor continuous flowing water YES: Sensor continuous flowing water	RoB X20CB is output if Rec
Ultrasonic Sensor (Front Right Side) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20CC is output if Yes
Ultrasonic Sensor (Front Right Side) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20CC is output if Yes

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Front Right Side) Temporarily Unavailable - Foreign Material Fixing	Foreign material fixing status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20CC is output if Yes
Ultrasonic Sensor (Front Right Side) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20CC is output if Yes
Ultrasonic Sensor (Front Left Side) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20CD is output if Yes
Ultrasonic Sensor (Front Left Side) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20CD is output if Yes
Ultrasonic Sensor (Front Left Side) Temporarily Unavailable - Foreign Material Fixing	Foreign material fixing status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20CD is output if Yes
Ultrasonic Sensor (Front Left Side) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20CD is output if Yes
Ultrasonic Sensor (Rear Right Side) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20CE is output if Yes

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ultrasonic Sensor (Rear Right Side) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20CE is output if Yes
Ultrasonic Sensor (Rear Right Side) Temporarily Unavailable - Foreign Material Fixing	Foreign material fixing status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20CE is output if Yes
Ultrasonic Sensor (Rear Right Side) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20CE is output if Yes
Ultrasonic Sensor (Rear Left Side) Temporarily Unavailable - Circuit Open	Open circuit status of the ultrasonic sensor	NO/YES	NO: No sensor open circuit YES: Sensor open circuit	RoB X20CF is output if Yes
Ultrasonic Sensor (Rear Left Side) Temporarily Unavailable - Freeze/Dirt	Frozen/dirty status of the ultrasonic sensor	NO/YES	NO: Sensor not frozen/dirty YES: Sensor frozen/dirty	RoB X20CF is output if Yes
Ultrasonic Sensor (Rear Left Side) Temporarily Unavailable - Foreign Material Fixing	Foreign material fixing status of the ultrasonic sensor	NO/YES	NO: Foreign matter not stuck on sensor YES: Foreign matter stuck on sensor	RoB X20CF is output if Yes
Ultrasonic Sensor (Rear Left Side) Temporarily Unavailable - Parameter Malfunction	Parameter malfunction status of the ultrasonic sensor	NO/YES	NO: No sensor parameter malfunction YES: Sensor parameter malfunction	RoB X20CF is output if Yes

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Steering Angle Sensor Malfunction	Steering angle sensor internal malfunction	NO/YES	NO: Steering angle sensor normal YES: Steering angle sensor malfunction	RoB X2001 is output if Rec
Engine Control Module Malfunction	Powertrain system malfunction	NO/YES	NO: SFI system normal YES: SFI system malfunction	RoB X2087 is output if Rec
Hybrid/EV Powertrain Control System Malfunction	HV system malfunction	NO/YES	No: Hybrid control system normal Yes: Hybrid control system malfunction	RoB X2005 is output if Yes
Brake Control System Malfunction	Brake system malfunction	NO/YES	NO: Electronically controlled brake system normal YES: Electronically controlled brake system malfunction	RoB X2003 is output if Rec
Power Steering Control Module Malfunction	Power steering system malfunction	NO/YES	NO: Power steering system normal YES: Power steering system malfunction	RoB X208E is output if Rec
Acceleration Sensor Malfunction	Acceleration sensor system malfunction	NO/YES	NO: Electronically controlled brake system normal YES: Electronically controlled brake system malfunction	RoB X204A is output if Rec
Circumference Monitoring Camera Control	IPA/parking assist monitor control system malfunction	NO/YES	NO: Panoramic view monitor system normal	RoB X20B0 is output if Rec

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Module Malfunction			YES: Panoramic view monitor system malfunction	
Rear Side Radar Sensor Malfunction	Blind spot monitor malfunction	NO/YES	NO: Blind spot monitor system normal YES: Blind spot monitor system malfunction	RoB X2038 is output if Rec
Rear Side Radar Sensor Temporarily Unavailable	Blind spot monitor malfunction	NO/YES	NO: Blind spot monitor system normal YES: Blind spot monitor system temporarily unavailable	RoB X203A is output if Rec
Ambient Temperature Sensor Circuit	Ambient temperature sensor malfunction	NO/YES	NO: Air conditioning system normal YES: Air conditioning system malfunction	RoB X2077 is output if Rec
Rear Camera Malfunction	Rear camera malfunction	NO/YES	NO: Panoramic view monitor system normal YES: Panoramic view monitor system malfunction	RoB X20B1 is output if Rec
Rear Camera Temporarily Unavailable	Rear camera malfunction	NO/YES	NO: Panoramic view monitor system normal YES: Panoramic view monitor system temporarily unavailable	RoB X20B2 is output if Rec

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Rear Camera Dirt	Displays whether the rear camera is dirty	NO/YES	No: Rear television camera assembly not dirty Yes: Rear television camera assembly dirty	RoB X2132 is output if Yes
Communication Error from Clearance Warning Control Module to Brake Control Module	Brake system communication malfunction	NO/YES	NO: Electronically controlled brake system normal YES: Electronically controlled brake system malfunction	RoB X20D5 is output if Rec
Gear Shift Control Module Malfunction	Shift control ECU malfunction	NO/YES	No: Electronic shift lever system normal Yes: Electronic shift lever system malfunction	RoB X219A is output if Yes
VGRS System Malfunction	Front steering control ECU malfunction	NO/YES	No: Variable gear ratio steering system normal Yes: Variable gear ratio steering system malfunction	RoB X200B is output if Yes
Vehicle Security Control Module Malfunction	Displays whether there is a smart key ECU malfunction	NO/YES	No: Smart access system with push-button start normal Yes: Smart access system with push-button start malfunctioning	RoB X2500 is output if Yes
PCS Sensor Temporarily Unavailable	Displays whether the PCS sensor is temporarily unavailable	NO/YES	No: PCS sensor not temporarily unavailable	RoB X2504 is output if Yes

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Yes: PCS sensor not temporarily unavailable	
Powertrain System Fail	Displays whether there is a drive system malfunction	NO/YES	No: Drive system normal Yes: Drive system malfunction	RoB X2507 is output if Yes

