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GENERAL INFORMATION ... 00-00

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VEHICLE IDENTIFICATION NUMBER (VIN)00–00–10 UNITS00–00–10 NEW STANDARD00–00–11

AIM OF DEVELOPMENT

Product concept

Communicative & Dynamic Space Wagon

- The new generation Space Wagon has achieved an optimal balance between 'Functionality/ Communicativeness' and 'Driveability/Design'.
- All occupants, not only the driver, can enjoy the functional space in full comfort.

External View



DPE000ZT1003

Vehicle outline

Packaging

- '6 + One' packaging concept (Seven-seater specification vehicle)
 - The 6-passenger cabin affords ride comfort for each passenger, and the center open space provides plusone functionality for enhanced passenger interaction.
 - 'Casual sensibility and convenient' functionality
- The best-in-class wheel base realizes advanced driving stability.
- Adoption of wide-open sliding doors on both sides.
 Ingress/Egress improvement
- Adoption of seat sliding and double-folding functions
 Achievement of optimum functionality for each seat

Design theme

Stylish & Clean

Design image keywords

- Sweeping wedge shape
- Feeling of solid packaging
- Compactness

Interior

- Achievement of a smooth dashboard surface
- The audio unit, climate control unit, and shift knob locations are integrated in the center panel to achieve a refined appearance.
- The adoption of ergonomic principles on many parts realizes excellent operability and a functional interior

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design.



Safety

- The adoption of the triple-H, strenghtened frames on the floor, sides and roof areas provides enhanced protection.
- Injuries in a pedestrian-vehicle collision are minimized by the increased space between the hood and engine.
- Air bags have been adopted for the driver and passenger-side to soften the impact to the head and face of the front passengers.
- Side air bags that effectively protect the chest area have been adopted for the front seats.
- Large curtain air bags have been adopted that deploy and cover the front and rear side windows to protect the heads of the front and rear passengers.
- Pre-tensioner and load limiter mechanisms have been adopted for the front seat belts.
- Seat belt reminders have been adopted for the prevention of unfastened seat belts.
- Both ISO FIX and tether strap anchors are provided in the second and third-row seats for child-restraint securing.
- An immobilizer system has been adopted. This anti-theft device prevents the engine from being started unless the encrypted identification code, transmitted from a special electronic chip embedded in the key, corresponds with the identification code registered in the vehicle.
- Power windows with a safety auto-reverse mechanism have been adopted.

Suspension

- Front suspension
 - Strut-type suspension adopted
 - A liquid-filled bushing for the lower arm adopted
 - A separated input type shock absorber mount has been adopted for improved steering stability and riding





1	Front shock absorber and coil spring	4	Front lower arm
2	Front stabilizer control link	5	Front crossmember
3	Front stabilizer		

- Rear suspension
 An E-type multi-link rear suspension adopted
 A wider occupancy space has been achieved due to the separated positioning of the shock absorber and



1	Rear shock absorber	6	Rear coil spring
2	Rear crossmember	7	Rear stabilizer control link
3	Rear trailing link	8	Rear stabilizer
4	View from the rear of the vehicle	9	Rear lateral link
5	Rear lower arm	10	Rear upper arm

Steering

• Power steering

Electro Hydraulic Power Assist Steering (EHPAS) adopted (L8, LF)

- Engine-speed-sensing power steering adopted (MZR-CD (RF-Turbo))

L.H.D.



1	Steering wheel		
2	2 Steering column and shaft		
3	Steering gear and linkage		
	Description of the second s		
4			
5	Electric power steering oil pump		

6	EHPAS control module (built into electric power steering oil pump)
7	steering angle sensor
8	Instrument cluster
9	EHPAS warning light



Engine

- The lightweight, aluminum alloy cylinder block and lower block provide superior vibration resistance. Superior crank support stiffness combined with lightweight pistons and connecting rods have been adopted for a comfortable, linear drive feel.
- Low-tension piston rings, and shimless tappets have been adopted to minimize friction losses and improve fuel economy.
- The following improvements have been realized (MZR-CD (RF Turbe)) due to the adoption of the common rail
 type fuel injection system.

- Particulate matter (PM) reduction has been realized due to the extremely high pressure fuel injection-

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system

- NOx and PM reduction have been realized due to an optimized combustion condition and enhanced flexibility in injection volume, timing, and pulse
- A diesel particulate filter system (MZR-CD (RF Turbo)) has been adopted to remove particulate matter (PM) i the exhaust gae.

Automatic transmission

- A slope-control function saves the driver from having to make frequent use of the brake pedal on slopes, providing the driver a feeling of smooth shift control.
- A higher 4th gear ratio promotes fuel economy during high-speed cruising.
- An expanded lockup range covers lower vehicle speeds. A control function adds lockup during deceleration that contributes to improved fuel economy and reduced CO₂ emissions.

Brakes

- Lever-type parking brake adopted
- Brake assist system provides enhanced brake force based on light braking effort.
- Linear, responsive braking function with an outstanding feeling of security and control characteristics.
 Stability and steerability is maintained during braking control due to the adoption of ABS or DSC for all models, together with Electronic Brakeforce Distribution (EBD).
 - A large-sized single diaphragm (10 inch) has been adopted, ensuring high brake functionality.
 - An intrusion-minimizing brake pedal, which minimizes the amount of rearward pedal thrust in a frontal collision, has been adopted.
 - A brake-assist function has been adopted to supplement pedal braking force and reduce speed in a shorter distance during emergency braking.

ABS STRUCTURAL VIEW



- 1 Front ABS wheel-speed sensor
- 2 Front ABS sensor rotor
- 3 Rear ABS wheel-speed sensor
- 4 Rear ABS sensor rotor

- 5 Instrument cluster
- 6 Brake system warning light
- 7 ABS warning light



Equipment for enhanced comfort

Left/right sliding doors

Auto closure



- The electrically operated sliding doors can also be opened and closed using the advanced key or keylessentry transmitter.
- Driver support system
 - The 'Back monitor system with predicted vehicle track display' system, with front and rear-mounted CCD cameras, displays the line the vehicle will follow as calculated from the steering-wheel angle.
- Audio system
 - The 20 GB built-in hard disc drive audio also provides remote operation using the wireless remote controller.
- Rear seat entertainment system
 - Remote operation using the wireless remote controller is possible for the retractable 7-inch LCD and DVD
 mounted on the ceiling, and TV reception.
- Advanced Keyless Entry and Start Up System
- Doors are locked/unlocked and the engine is started/stopped without the use of a conventional key.
- KARAKURI storage box
 - Storage space is provided with storage boxes under the seat bottoms of the second row seats.

VEHICLE IDENTIFICATION NUMBER (VIN) CODE

European (L.H.D. U.K.) specs.

DPE00000000T01





VEHICLE IDENTIFICATION NUMBER (VIN)

European (L.H.D) specs. JMZ CR1982*# 100001 JMZ CR19F5*# 100001 JMZ CR19F5*# 100001 JMZ CR19T6*# 100001 JMZ CR19T6*# 100001 JMZ CR19820# 100001 JMZ CR19F20# 100001 JMZ CR19R60# 100001 JMZ CR19R60# 100001 JMZ CR19T60# 100001 General (K.H.D) specs. JM7 CR10F100 100001 General (R.H.D) specs JM6 CR10F100 100001

UNITS

Electrical current	A (ampere)
Electric power	W (watt)
Electric resistance	ohm
Electric voltage	V (volt)
Longth	mm (millimeter)
Lengin	in (inch)
	kPa (kilo pascal)
Negative pressure	mmHg (millimeters of mercury)
	inHg (inches of mercury)
	kPa (kilo pascal)
Positive pressure	kgf/cm ² (kilogram force per square centimeter)
	psi (pounds per square inch)

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DPE00000000T02

	N·m (Newton meter)			
	kgf⋅m (kilogram force meter)			
Torque	kgf.cm (kilogram force centimeter)			
	ft·lbf (foot pound force)			
	in·lbf (inch pound force)			
	L (liter)			
	US qt (U.S. quart)			
	Imp qt (Imperial quart)			
Volume	ml (milliliter)			
	cc (cubic centimeter)			
	cu in (cubic inch)			
	fl oz (fluid ounce)			
Weight	g (gram)			
weigin	oz (ounce)			

Conversion to SI Units (Système International d'Unités)

• All numerical values in this manual are based on SI units. Numbers shown in conventional units are converted from these values.

Rounding Off

• Converted values are rounded off to the same number of places as the SI unit value. For example, if the SI unit value is 17.2 and the value after conversion is 37.84, the converted value will be rounded off to 37.8.

Upper and Lower Limits

 When the data indicates upper and lower limits, the converted values are rounded down if the SI unit value is an upper limit and rounded up if the SI unit value is a lower limit. Therefore, converted values for the same SI unit value may differ after conversion. For example, consider 2.7 kgf/cm² in the following specifications:

210—260 kPa {2.1—2.7 kgf/cm², 30—38 psi} 270—310 kPa {2.7—3.2 kgf/cm², 39—45 psi}

• The actual converted values for 2.7 kgf/cm² are 265 kPa and 38.4 psi. In the first specification, 2.7 is used as an upper limit, so the converted values are rounded down to 260 and 38. In the second specification, 2.7 is used as a lower limit, so the converted values are rounded up to 270 and 39.

NEW STANDARD

• Following is a comparison of the previous standard and the new standard.

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New Standard				
Abbrevi- ation	Name	Abbrevi- ation	Name	Remark
AP	Accelerator Pedal	—	Accelerator Pedal	
APP	Accelerator Pedal Position	—	Accelerator Pedal Position	
ACL	Air Cleaner	—	Air Cleaner	
A/C	Air Conditioning	—	Air Conditioning	
BARO	Barometric Pressure	—	Atmospheric Pressure	
B+	Battery Positive Voltage	V _B	Battery Voltage	
—	Brake Switch	—	Stoplight Switch	
—	Calibration Resistor	—	Corrected Resistance	#6
CMP sensor	Camshaft Position Sensor	—	Crank Angle Sensor	
LOAD	Calculated Load Voltage	—	—	
CAC	Charge Air Cooler	—	Intercooler	
CLS	Closed Loop System	—	Feedback System	
CTP	Closed Throttle Position	—	Fully Closed	
CPP	Clutch Pedal Position	—	Clutch Position	
CIS	Continuous Fuel Injection System	EGI	Electronic Gasoline Injection System	
CS sensor	Control Sleeve Sensor	CSP sensor	Control Sleeve Position Sensor	#6
CKP sensor	Crankshaft Position Sensor		Crank Angle Sensor 2	
DLC	Data Link Connector	—	Diagnosis Connector	
DTM	Diagnostic Test Mode		Test Mode	#1

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New Standard		Previous Standard		
Abbrevi- ation	Name	Abbrevi- ation	Name	Remark
DTC	Diagnostic Trouble Code(s)	—	Service Code(s)	
DI	Distributor Ignition	—	Spark Ignition	
DLI	Distributorless Ignition	—	Direct Ignition	
EI	Electronic Ignition	—	Electronic Spark Ignition	#2
ECT	Engine Coolant Temperature	—	Water Thermo	
EM	Engine Modification	—	Engine Modification	
—	Engine Speed Input Signal	—	Engine RPM Signal	
EVAP	Evaporative Emission	—	Evaporative Emission	
EGR	Exhaust Gas Recirculation	—	Exhaust Gas Recirculation	
FC	Fan Control	—	Fan Control	
FF	Flexible Fuel	—	Flexible Fuel	
4GR	Fourth Gear	—	Overdrive	
_	Fuel Pump Relay	_	Circuit Opening Relay	#3
FSO solenoid	Fuel Shut Off Solenoid	FCV	Fuel Cut Valve	#6
GEN	Generator		Alternator	
	Ground		Ground/Earth	
HO2S	Heated Oxygen Sensor		Oxygen Sensor	With heater
	Idle Air Control		Idle Speed Control	Viiii lioatoi
			Spill Valve Belay	#6
	Incorrect Gear Batio			# 0
		FIP	Fuel Injection Pump	#6
	Input/Turbine Speed Sensor		Pulse Generator	# 0
	Intake Air Temperature		Intake Air Thermo	
IAI			Knock Sensor	
MI	Malfunction Indicator Lamp		Malfunction Indicator Light	
MAP	Manifold Absolute Pressure			
MAE	Mass Air Flow		Mass Air Flow	
MAE sensor	Mass Air Flow Sensor		Airflow Sensor	
MEI	Multiport Fuel Injection		Multiport Fuel Injection	
	On-Board Diagnostic			
			Open Loop	
	Output Speed Sensor		Vehicle Speed Sensor 1	
-	Ovidation Catalytic Converter		Catalytic Converter	
00				
DND	Park/Neutral Position		Park/Neutral Pango	
	Parameter Identification		Parameter Identification	
FID				#6
			Nalli heldy	#0
PSP	Power Steering Pressure		Foreing Control Linit	#4
PCIVI	Proventralin Control Module	ECU	Line Dressure Selensid Velve	#4
	Pressure Control Solenoid		Line Pressure Solenoid Valve	Dulaad
PAIR	Pulsed Secondary Air Injection	—	Secondary Air Injection System	injection
—	Pump Speed Sensor	—	NE Sensor	#6
AIR	Secondary Air Injection	_	Secondary Air Injection System	Injection with air pump
SAPV	Secondary Air Pulse Valve	—	Reed Valve	
SFI	Sequential Multipoint Fuel Injection	—	Sequential Fuel Injection	
	Chift Colonaid A	—	1-2 Shift Solenoid Valve	
-	σπιτ σοιεποία Α	—	Shift A Solenoid Valve	
			2-3 Shift Solenoid Valve	
	SUIII SOIGUOIA R	—	Shift B Solenoid Valve	
	Shift Solenoid C	_	3-4 Shift Solenoid Valve	

New Standard		Previous Standard		
Abbrevi- ation	Name	Abbrevi- ation	Name	Remark
3GR	Third Gear	—	3rd Gear	
TWC	Three Way Catalytic Converter	—	Catalytic Converter	
TB	Throttle Body	—	Throttle Body	
TP	Throttle Position	—	—	
TP sensor	Throttle Position Sensor	—	Throttle Sensor	
TCV	Timer Control Valve	TCV	Timing Control Valve	#6
TCC	Torque Converter Clutch		Lockup Position	
ТСМ	Transmission (Transaxle) Control Module	—	EC-AT Control Unit	
_	Transmission (Transaxle) Fluid Temperature Sensor	—	ATF Thermosensor	
TR	Transmission (Transaxle) Range	—	Inhibitor Position	
TC	Turbocharger	—	Turbocharger	
VSS	Vehicle Speed Sensor	—	Vehicle Speed Sensor	
VR	Voltage Regulator		IC Regulator	
VAF sensor	Volume Air Flow Sensor	—	Air flow Sensor	
WUTWC	Warm Up Three Way Catalytic Converter	—	Catalytic Converter	#5
WOT	Wide Open Throttle		Fully Open	

#1: Diagnostic trouble codes depend on the diagnostic test mode

#2: Controlled by the PCM

#3: In some models, there is a fuel pump relay that controls pump speed. That relay is now called the fuel pump relay (speed).

#4: Device that controls engine and powertrain

#5: Directly connected to exhaust manifold

#6: Part name of diesel engine