FRONT & REAR SUSPENSION

SECTION SU

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SPECIAL SERVICE TOOLS

The actual shapes of Kent-M	loore tools may differ from those of special service too	Is illustrated here.	FE
Tool number (Kent-Moore No.) Tool name	Description		GL
ST29020001 (J24319-01) Ball joint remover	R C	Removing tie-rod outer end and lower ball joint a: 34 mm (1.34 in) b: 6.5 mm (0.256 in) c: 61.5 mm (2.421 in)	MT AT
	NT694		TF
COMMERCIAL SER	VICE TOOLS	NASU0003	PD
Tool name	Description		AX
1 Flare nut crowfoot 2 Torque wrench		Removing and installing each brake piping a: 10 mm (0.39 in)	SU
	NT360		BR
Spring compressor	COMPANY TO BE	Removing and installing coil spring	ST
	State -		RS
	NT717		BT
COMMERCIAL SERV Tool name 1 Flare nut crowfoot 2 Torque wrench Spring compressor	NT694	Removing and installing each brake piping a: 10 mm (0.39 in) Removing and installing coil spring	PE AX BF ST R\$ BT

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Noise, Vibration and Harshness (NVH) Troubleshooting

Noise, Vibration and Harshness (NVH) Troubleshooting

NVH TROUBLESHOOTING CHART

=NASU0035

Use the chart below to help you find the cause of the symptom. If necessary, repair or replace these parts.

Re	fere	nce page	SU-5, 38	SU-10, 40	1	I	Ι	SU-10, 40	SU-8	SU-13, 42	8-NS	Ι	I	I	I	I	I	PD-4	PD-4	AX-3	AX-3	Refer to SUSPENSION in this chart.	Refer to TIRES in this chart.	Refer to ROAD WHEEL in this chart.	BR-7	ST-6
Po SU	ssib SPI	le Cause and ECTED PARTS	Improper installation, looseness	Shock absorber deformation, damage or deflection	Bushing or mounting deterioration	Parts interference	Spring fatigue	Suspension looseness	Incorrect wheel alignment	Stabilizer bar fatigue	Out-of-round	Imbalance	Incorrect air pressure	Uneven tire wear	Deformation or damage	Non-uniformity	Incorrect tire size	PROPELLER SHAFT	DIFFERENTIAL	DRIVE SHAFT	AXLE	SUSPENSION	TIRES	ROAD WHEEL	BRAKES	STEERING
		Noise	×	×	×	×	×	×										×	×	×	×		×	×	×	×
		Shake	×	×	×	×		×										×		×	×		×	×	×	×
	NOIS	Vibration	×	×	×	×	×											×		×	×		×			×
	EN	Shimmy	×	×	×	×			×												×		×	×	×	×
	SUSF	Judder	×	×	×																×		×	×	×	×
	0,	Poor quality ride or han- dling	×	×	×	×	×		×	×											×		×	×		
		Noise	×								×	×	×	×	×	×		×	×	×	×	×		×	×	×
_		Shake	×								×	×	×	×	×		×	×		×	×	×		×	×	×
ptom		Vibration											×				×	×		×	×	×				×
Sym	RES	Shimmy	×								×	×	×	×	×	×	×				×	×		×	×	×
	F	Judder	×								×	×	×	×	×		×				×	×		×	×	×
		Poor quality ride or han- dling	×								×	×	×	×	×		×				×	×		×		
		Noise	×								×	×			×			×	×	×	×	×	×		×	×
	Ē	Shake	×								×	×			×			×		×	×	×	×		×	×
	AD WHE	Shimmy, Jud- der	×								×	×			×						×	×	×		×	×
	R0/	Poor quality ride or han- dling	×								×	×			×						×	×	×			

×: Applicable

Components



4WD

SEC. 391•400•401

When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground. * Fuel, radiator coolant and engine oil full.



- 2. Spring upper seat
- 3. Bound bumper
- 4. Coil spring

- 6. Stabilizer connecting rod
- 7. Bracket

- 9. Transverse link
- 10. Drive shaft



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- d. Place a pry bar between transverse link and knuckle.
- e. While raising and releasing pry bar, observe maximum dial $_{\ensuremath{\mathbb{B}}}$ indicator value.

Vertical end play: 0 mm (0 in)

If ball joint vertical end play exists, remove lower ball joint assembly and recheck the ball joint. Refer to "Tranverse Link and Lower Ball Joint", SU-14.

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- 6. Check spring height from top of wheelarch to ground using the following procedure.
- a. Park vehicle on a level surface with vehicle unladen*.
 *: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
- b. Check tires for proper inflation and wear (tread wear indicator must not be showing).
- c. Bounce vehicle up and down several times and measure dimensions Hf and Hr. Refer to SDS, SU-35.
 Spring height is not adjustable. If out of specification, check for worn springs and suspension parts.

On-vehicle Service (Cont'd)



FRONT WHEEL ALIGNMENT

Before checking front wheel alignment, be sure to make a preliminary inspection (Unladen*).

*: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

Preliminary Inspection

NASU0006S01

- 1. Check tires for wear and improper inflation.
- 2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.

NOTE:

Measure both the inner and outer sides for the radial runout and lateral runout, and confirm the figures are within the standards.

Wheel runout (Dial indicator value): Refer to SDS, SU-36.

- 3. Check front wheel bearings for looseness.
- 4. Check front suspension for looseness.
- 5. Check steering linkage for looseness.
- 6. Check that front shock absorbers work properly.
- 7. Check vehicle posture (Unladen).



Camber, Caster and Kingpin Inclination

Camber, caster and kingpin inclination are preset at factory and cannot be adjusted.

1. Measure camber, caster and kingpin inclination of both right and left wheels with a suitable alignment gauge.

Camber, Caster and Kingpin inclination: Refer to SDS, SU-34.

2. If camber, caster or kingpin inclination is not within specification, inspect front suspension parts. Replace damaged or worn out parts.

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hark on base line of the tread (rear side) of both tires at the height of hub center. This mark is a measuring point. e distance "A" (rear side).	LC
he vehicle slowly ahead to rotate the wheels 180 s (1/2 turn).	EG
Is have rotated more than 180 degrees (1/2 turn), try procedure again from the beginning. Never push kward.	FE
e distance "B" (front side).	GL
efer to SDS, SU-34.	MT
oe-in by varying the length of steering tie-rods.	AT
oe-in by screwing tie-rods in and out.	TF
	PD
	AX
ure both tig rade are the same length	SU
ndard length "L": efer to ST-33, "Steering Gear and Linkage".	BR
efer to ST-18, "POWER STEERING GEAR AND LINK-	ST
GE".	RS

Front Wheel Turning Angle

NASU0006S04 HA Turning angle is set by stroke length of steering gear rack and

- Set wheels in straight-ahead position. Then move vehicle for-SC ward until front wheels rest on turning radius gauge properly.
- Rotate steering wheel all the way right and left; measure turn-

Do not hold the steering wheel on full lock for more than 15

Refer to SDS, SU-34.

SU-9

Coil Spring and Strut Assembly

NASU0007

COMPONENTS 2WD



- 5. Spring upper seat
- 6. Bound bumper

1.

2.

3.

4.

- 11. Lower ball joint assembly
- 12. Cotter pin

- 17. Bracket
- 18. Knuckle spindle



7. Coil spring

EL

Coil Spring and Strut Assembly (Cont'd)





REMOVAL

- 1. Remove stabilizer connecting rod.
- 2. Remove strut assembly fixing bolts and nuts (to hood-ledge).
- Do not remove piston rod lock nut on vehicle.

DISASSEMBLY

1. Set strut assembly on vise, then **loosen** piston rod lock nut. WARNING:

Do not remove piston rod lock nut at this time.

2. Compress spring with tool so that the strut mounting insulator can be turned by hand.

WARNING:

Make sure that the pawls of the two spring compressors are firmly hooked on the spring. The spring compressors must be tightened alternately so as not to tilt the spring.

3. Remove piston rod lock nut.



SSU003

INSPECTION Strut Assembly

NASU0010

NASU0008

- Check for smooth operation through a full stroke, both compression and extension.
- Check for oil leakage on welded and gland packing portion.
- Check piston rod for cracks, deformation and other damage.
- Replace if necessary.

Strut Mounting Insulator and Rubber Parts

- Check cemented rubber-to-metal portion for separation and cracks. Check rubber parts for deterioration.
- Replace if necessary.

Strut Mounting Bearing

- Check thrust bearing parts for abnormal noise and excessive rattle in axial direction.
- Replace if necessary.

Coil Spring

Check for cracks, deformation and other damage. Replace if necessary.

1000010





Stabilizer Bar (Cont'd)



• Install stabilizer bar with ball joint socket properly placed.



INSPECTION

- Check stabilizer for deformation and cracks. Replace if necessary.
- Check rubber bushings for deterioration and cracks. Replace if necessary.
- Check ball joint can rotate in all directions. If movement is not smooth and free, replace stabilizer bar connecting rod.



Transverse Link and Lower Ball Joint REMOVAL AND INSTALLATION

- 1. Separate drive shaft from knuckle. 4WD Refer to AX-12, "Drive Shaft".
- 2. Separate lower ball joint stud from knuckle.
- 3. Remove lower ball joint assembly from transverse link.
- 4. Remove transverse link.
- 5. During installation, final tightening must be carried out at curb weight with tires on ground.

NASU0014

6. After installation, check wheel alignment. Refer to "FRONT WHEEL ALIGNMENT", "On-vehicle Service", SU-8.

Ball joint

	Transverse Link and Lower Ball Joint (Cont'd)
	 INSPECTION
A B C SFA858AA	 Lower Ball Joint Check ball joint for excessive play. Replace lower ball joint assembly if any of the following exists: Ball stud is worn. Joint is hard to swing. Play in axial direction is excessive. Before checking, turn ball joint at least 10 revolutions so that ball joint is properly broken in. Swinging force "A": (measuring point: cotter pin hole of ball stud) Refer to SDS, SU-35. Vertical end play "C": Refer to SDS, SU-35.

PD Check dust cover for damage. Replace it and cover clamp if necessary.

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Low Tire Pressure Warning System SYSTEM COMPONENTS





SYSTEM DESCRIPTION Transmitter

NASU0038

A sensor-transmitter integrated with a valve is installed on a wheel, and transmits a detected air pressure signal in the form of a radio wave.



Antenna

Receives the radio wave signal transmitted by the transmitter.



Low Tire Pressure Warning Control Unit Reads the radio wave signal received by the antenna, and controls

the warning lamp and the buzzer operations as shown below. It also has a judgement function to detect a system malfunction.

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			. IE(C
Condition	Warning lamp	Buzzer	
Less than 170 kPa (1.7 kg/cm ² , 24 psi) [Flat tire]	ON	Sounds for 10 sec.	Fe
System malfunction	ON	OFF	

AX

SU

BR

ST

RS

BT

HA

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* : This connector is not shown in "HARNESS LAYOUT", EL section.

Trouble Diagnoses (Cont'd)



MSU002

LOW TIRE PRESSURE WARNING CONTROL UNIT INPUT/OUTPUT SIGNAL STANDARD Standards using a circuit tester and oscilloscope

Measu	rement ter- minal	Measuring point	Standard value							
+	-									
1		Battery power supply	Always	Battery voltage (Approx. 12V)						
2		Ignition switch ON or START	Ignition switch ON	Battery voltage (Approx. 12V)						
2		Tire pressure warping lamp	Tire pressure warning lamp turns ON	Approx. 0V						
3		The pressure warning lamp	Tire pressure warning lamp turns OFF	Battery voltage (Approx. 12V)						
4		Ignition switch ON or ACC	Ignition switch ON	Battery voltage (Approx. 12V)						
8		Tire pressure warning check switch	Always	Approx. 5V						
			Lighting switch in 1st position	Approx. 0V						
9	Cround		Lighting switch OFF	Approx. 12V						
10		Vehicle speed signal (8-pulse)	Speed meter operated [When vehicle speed is approx. 40 km/h (25 MPH)]	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
11		GND	_	Approx. 0V						
12]	Data link connector (RX)	_	_						
13	1	Data link connector (TX)	_	_						
17]	Antenna	_	_						

ID REGISTRATION PROCEDURE

ID Registration with Transmitter Activation Tool

- 1. Turn ignition switch "OFF".
- 2. Connect CONSULT-II to data link connector.
- 3. Start engine.
- 4. Touch "START", "AIR PRESSURE MONITOR", "WORK SUP-PORT" and "ID REGIST".

NASU0041

NASU0041S01



5. With the transmitter activation tool (J-45295) pushed against the front-left transmitter, press the button then keep 5 seconds.

Trouble Diagnoses (Cont'd)

6. Register the IDs in order from FR LH, FR RH, RR RH, to RR LH. When ID registration of each wheel has been completed, a buzzer sounds and tail lamps blinks.

Activ	vation tire position	Buzzer	Tail lamp	CONSULT-II	MA
1	FR LH	Once			ena
2	FR RH	2 times	2 times fleshing	"YET"	LEIMI
3	RR RH	3 times	2 times hashing	"DONE"	10
4	RR LH	4 times			LU

7. After completing all ID registrations, press "END" to complete EC the procedure.

NOTE:

Be sure to register the IDs in order from FR LH, FR RH, RR RH, FE to RR LH, or the self-diagnostic results display will not function properly.

ID Registration without Transmitter Activation Tool

- 1. Turn ignition switch "OFF".
- 2. Connect CONSULT-II to data link connector.
- 3. Start engine.
- 4. Touch "START", "AIR PRESSURE MONITOR", "WORK" SUP-PORT" and "ID REGIST".
- 5. Adjust the tire pressure to the values shown in the table below for ID registration, and drive the vehicle at 32 km/h (20 MPH) TF or more for a few minutes.

_ PD	Tire pressure kPa (kg/cm ² , psi)	Tire position
	250 (2.5, 36)	Front-Left
AX	230 (2.3, 33)	Front-Right
	210 (2.1, 30)	Rear-Right
	190 (1.9, 27)	Rear-Left

6. After completing all ID registrations, press "END" to complete the procedure.

Activation tire position	CONSULT-II	
Front LH		ST
Front RH	"YET"	
Rear LH	"DONE"	RS
Rear RH		

Transmitter Wake Up Operation With Transmitter Activation Tool

NASU0041503

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- With the transmitter activation tool (J-45295) pushed against the front left transmitter, press the button for 5 seconds.
- When ignition switch is ON, then warning lamp blinks as in the follow diagram and transmitter wakes up.
- 2. Register the IDs in order from FR LH, FR RH, RR RH or RR LH. When wake up of each wheel has been completed, a tail lamp blinks.



SEIA0101E

Need to activate tire position	Warning lamp	Tail lamp
Front LH	Once (0.3 sec.)	
Front RH	2 times blinking	
Rear LH	3 times blinking	2 times flashing
Rear RH	4 times blinking	
All tires	Once (2.0 sec.)	

3. After completing wake up of all transmitters, make sure tire pressure warning lamp goes out.

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SELF-DIAGNOSIS

Description

During driving, the low tire pressure warning system receives the signal transmitted from the transmitter installed in each wheel, and gives alarms when the tire pressure becomes low. The control unit of this system has pressure judgement and trouble diagnosis functions.

Function

When the low tire pressure warning system detects low inflation pressure or another unusual symptom, the warning lamps in the combination meter comes on. To start the self-diagnostic results mode, ground the self-diagnostic (check) terminal. The malfunction location is indicated by the tail lamp flashing and the buzzer sounds.

CONSULT-II NASU0042S03 **CONSULT-II Application to Low Tire Pressure Warning System** NASU0042S0301 ITEM SELF-DIAGNOSTIC RESULTS DATA MONITOR Front - Left transmitter × × Front - Right transmitter \times \times Rear - Left transmitter \times \times Rear - Right transmitter \times \times Warning lamp ____ \times

_

×: Applicable

-: Not applicable

Buzzer (in control unit)

Vehicle speed

=NASU0042

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EC

GL

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AT

PD

AX

SU

RS

HA

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Self-Diagnostic Results Mode

		=NASU0042S0302
Diagnostic item	Diagnostic item is detected when	
FLAT - TIRE - FL FLAT - TIRE - FR FLAT - TIRE - RR FLAT - TIRE - RL	Front-left tire pressure drops to 200 kPa (2.0 kg/cm ² , 28 psi) or less Front-right tire pressure drops to 200 kPa (2.0 kg/cm ² , 28 psi) or less Rear-right tire pressure drops to 200 kPa (2.0 kg/cm ² , 28 psi) or less Rear-left tire pressure drops to 200 kPa (2.0 kg/cm ² , 28 psi) or less	
[NO-DATA] - FL [NO-DATA] - FR [NO-DATA] - RR [NO-DATA] - RL	Data from front-left transmitter cannot be received. Data from front-right transmitter cannot be received. Data from rear-right transmitter cannot be received. Data from rear-left transmitter cannot be received.	
[CHECKSUM- ERR] - FL [CHECKSUM- ERR] - FR [CHECKSUM- ERR] - RR [CHECKSUM- ERR] - RL	Checksum data from front-left transmitter is malfunctioning. Checksum data from front-right transmitter is malfunctioning. Checksum data from rear-right transmitter is malfunctioning. Checksum data from rear-left transmitter is malfunctioning.	
[PRESSDATA- ERR] - FL [PRESSDATA- ERR] - FR [PRESSDATA- ERR] - RR [PRESSDATA- ERR] - RL	Air pressure data from front-left transmitter is malfunctioning. Air pressure data from front-right transmitter is malfunctioning. Air pressure data from rear-right transmitter is malfunctioning. Air pressure data from rear-left transmitter is malfunctioning.	
[CODE- ERR] - FL [CODE- ERR] - FR [CODE- ERR] - RR [CODE- ERR] - RL	Function code data from front-left transmitter is malfunctioning. Function code data from front-right transmitter is malfunctioning. Function code data from rear-right transmitter is malfunctioning. Function code data from rear-left transmitter is malfunctioning.	
[BATT - VOLT - LOW] - FL [BATT - VOLT - LOW] - FR [BATT - VOLT - LOW] - RR [BATT - VOLT - LOW] - RL	Battery voltage of front-left transmitter drops. Battery voltage of front-right transmitter drops. Battery voltage of rear-right transmitter drops. Battery voltage of rear-left transmitter drops.	
RECEIVER - ID - NO - REG	No ID registration has been made to the low tire pressure warning control u	nit.

NOTE:

Before performing the self-diagnosis, be sure to register the ID. Or, the actual malfunction location may be different from that displayed on CONSULT-II.

NASU0042S0303

Data Monitor Mode

MONITOR	CONDITION	SPECIFICATION
VHCL SPEED SE	Drive vehicle.	Vehicle speed (km/h or MPH)
AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RL	 Drive vehicle for a few minutes. or Ignition switch ON and activation tool is transmitting activate signals. 	Tire pressure (kPa or Psi)
ID REGST FL ID REGST FR ID REGST RR ID REGST RL		Registration ID: DONE No registration ID: YET
WARNING LAMP	Ignition switch ON	Warning lamp on: ON Warning lamp off: OFF
BUZZER		Buzzer in low tire pressure warning control unit on: ON Buzzer in low tire pressure warning control unit off: OFF

NOTE:

Before performing the self-diagnosis, be sure to register the ID. Or, the actual malfunction location may be different from that displayed on CONSULT-II.

НО	W TO PERFORM TROUBLE DIAGNOSI	s fof	R QUICK AND ACCURATE REPAIR	=NASU0043	GI
Inti	oduction			NASU0043S01	
•	If a vehicle problem is hard to reproduce, har	nesses	s, harness connectors or terminals may ofte	n be mal-	MA
•	functioning. Hold and shake these parts by hand to make sure they are securely connected. When using a circuit tester to measure voltage or resistance of each circuit, be careful not to expand con- nector terminals.				
Wo	rk Flow			NA 0000 40000	10
		-7		NASUU043502	LG
			Reference item		EC
		-			
	Verify customer complaints.				FE
	Determine reference item related to the symptom.				CL
	L				
		7	Preliminary check		MT
			·]	
-	Parform salf-diagnosis	٦	Solf-diagnosis	7	AT
					SP
	· · · · · · · · · · · · · · · · · · ·	7		_	
	Check symptom.		TROUBLE DIAGNOSIS FOR SYMPTOMS		DN
		_			ru
	Repair or replace malfunctioning parts.				AX
	Perform self-diagnosis.	Pric	or to final checks, turn ignition switch to "OFF" \rightarrow "ON" fo	1-	SU
			ing the self-diagnosis to initialize actuator positioning.		
	⊐				BR
	ОК				
		٦			ST
	END				
					RS
					65
				0540005	DI
				SEIA0100E	HA
					0 00-0
					SC
					-
					EL
					IDX

PRELIMINARY CHECK BASIC INSPECTION

 1
 CHECK ALL TIRES PRESSURES

 • Check all tires pressures.

 Tire pressure:

 210 kPa (2.1 kg/cm², 30 psi)

 OK or NG

 OK

 GO TO 2.
 NG
 Adjust tire pressure to specified value.

2	CHECK WARNING LAN	IP ACTIVATION		
 Check warning lamp activation. Does warning lamp activate for 1 second when ignition switch is turned "ON"? 				
	YES or NO			
YES		Warning lamp turns off: GO TO 3.		
NO		Check fuse and combination meter. Then repair or replace malfunctioning parts.		

3	CHECK CONNECTOR				
 Disconnect low tire pressure warning control unit connector M156. Check terminals for damage or loose connection. 					
	OK or NG				
OK	ОК 🕨 GO TO 4.				
NG		Repair or replace damaged parts.			

4	CHECK TRANSMITTER	ACTIVATION TOOL		
Check transmitter tool battery.				
	OK or NG			
OK		Carry out self-diagnosis.		
NG		Replace transmitter activation tool battery.		

=NASU0044

MALEUNCTION CODE/SYMPTOM CHAPT

Code/Symptom	Malfunction part	Reference	ſ
15 16 17 18	Front-left tire pressure drops to 200 kPa (2.0 kg/cm ² , 28 psi) or less Front-right tire pressure drops to 200 kPa (2.0 kg/cm ² , 28 psi) or less Rear-right tire pressure drops to 200 kPa (2.0 kg/cm ² , 28 psi) or less Rear-left tire pressure drops to 200 kPa (2.0 kg/cm ² , 28 psi) or less		[
21 22 23 24	Transmitter no data (front - left) Transmitter no data (front - right) Transmitter no data (rear - right) Transmitter no data (rear - left)	SU-27	
31 32 33 34	Transmitter checksum error (front - left) Transmitter checksum error (front - right) Transmitter checksum error (rear - right) Transmitter checksum error (rear - left)	SU-28	
35 36 37 38	Transmitter pressure data error (front - left) Transmitter pressure data error (front - right) Transmitter pressure data error (rear - right) Transmitter pressure data error (rear - left)	SU-29	
41 42 43 44	Transmitter function code error (front - left) Transmitter function code error (front - right) Transmitter function code error (rear - right) Transmitter function code error (rear - left)	SU-28	
45 46 47 48	Transmitter battery voltage low (front - left) Transmitter battery voltage low (front - right) Transmitter battery voltage low (rear - right) Transmitter battery voltage low (rear - left)	SU-28	
51	Low tire pressure warning control unit	SU-29	
arning lamp does not come on when nition switch is turned on.	Fuse or combination meter Low tire pressure warning control unit connector or circuit Low tire pressure warning control unit	SU-30	
arning lamp stays on when ignition vitch is turned on.	Fuse or combination meter Low tire pressure warning control unit connector or circuit Low tire pressure warning control unit	SU-31	
arning lamp blinks when ignition witch is turned on.	Low tire pressure warning control unit harness connector or circuit Low tire pressure warning control unit	SU-33	
ail lamp blinks when ignition switch is rned on.	Low tire pressure warning control unit harness connector or circuit Low tire pressure warning control unit	SU-34	
registration cannot be operated.	Transmitter Antenna harness connector or circuit Antenna	SU-34	

Trouble Diagnoses for Self-diagnostic Items

INSPECTION 1: TRANSMITTER OR TIRE PRESSURE WARNING CONTROL UNIT Malfunction Code No. 21, 22, 23 or 24 NASU0046S01

1	CHECK CONTROL UNI	т		
• Driv	Drive for several minutes. Check all tires' pressure with CONSULT-II "DATA MONITOR ITEM".			
	Are all tires' pressure displayed 0 kPa?			
YES		GO TO 2.	EL	
NO		GO TO 3.		

IDX

HA

NASU0046

Trouble Diagnoses for Self-diagnostic Items (Cont'd)

2	CHECK ANTENNA CONNECTOR			
Check antenna and feeder connector M601 for damage or loose connections.				
	OK or NG			
OK	OK Replace control unit, then GO TO 3.			
NG	NG ► Repair or replace antenna or feeder connector.			

3	ID REGISTRATION			
 Carr 	Carry out ID registration of all transmitters.			
	Is there a tire that cannot register ID?			
YES		Replace transmitter of the tire, GO TO 5.		
NO		GO TO 4.		

4	VEHICLE DRIVING				
 Drive SUL 	 Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping. Check all tires' pressure with CON- SULT-II "DATA MONITOR ITEM" within 15 minutes after vehicle speed becomes 17 km/h (11 MPH). 				
	Does "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?				
YES	YES INSPECTION END.				
NO	NO 🕨 GO TO 5.				

5 ID REGISTRATION AND VEHICLE DRIVING

1. Carry out ID registration of all transmitters.

2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tires' pressure with CONSULT-II "DATA MONITOR ITEM" within 5 minutes.

Does "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?

YES	INSPECTION END.
NG	GO TO the inspection applicable to DTC.

INSPECTION 2: TRANSMITTER-1 Malfunction Code No. 31, 32, 33, 34, 41, 42, 43, 44, 45, 46, 47 or 48

NASU0056

NASU0056S01

1 ID REGISTRATION (CORRECTION OF TRANSMITTER LOCATION)

- 1. Carry out ID registration of all transmitters.
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.

► GO TO 2.

2	REPLACE TRANSMITT	ER		
 Check warning lamp for blink again, replace malfunctioning transmitter. Carry out ID registration of all transmitters. 				
	Can ID registration of all transmitters be completed?			
YES		GO TO 3.		
NO	O GO TO Inspection 1.			

Trouble Diagnoses for Self-diagnostic Items (Cont'd)

	VEHICLE DRIVING		(j
• Driv The	ve at a speed of 40 km/h (2 en check all tires' pressure	25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes.	R
	Does "DATA MON	ITOR ITEM" display tire pressure as normal without any warning lamp?	
YES		INSPECTION END.	E
NO		Replace malfunctioning transmitter, and perform "Step 3" again.	
NSPI	ECTION 3: TRANSMI	TTER-2	ľ
/lalfu	nction Code No. 35,	36, 37 or 38	,
1	CHECK ALL TIRES' PR	ESSURE	
• Ch	eck all tires' pressure.		
	Tire pressure:		F
	210 kPa (2.1 kg/m², 30	psi)	
	A	re there any tires' whose pressure is "64 psi" or more?	ſ
YES		Adjust tire pressure to specified value.	C
NO	•	GO TO 2.	
			I
2	VEHICLE DRIVING		
1. Ca 2. Dri	arry out ID registration of all ive at a speed of 40 km/h (transmitters. 25 MPH) or more for several minutes without stopping. Check all tires' pressure with	A
CC	ONSULT-II "DATA MONITOF	R ITEM" within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).	
	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more.	J
	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3.	1
	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3.	T F
3	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE	
3 1. Ca	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters.	F
3 1. Ca 2. Dri Th	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes.	T F
3 1. Ca 2. Dri Th	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes. ITOR ITEM" display tire pressure as normal without any warning lamp?	F
3 1. Ca 2. Dri Th YES	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes. ITOR ITEM" display tire pressure as normal without any warning lamp? INSPECTION END.	F
3 1. Ca 2. Dri Th YES NO	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes. ITOR ITEM" display tire pressure as normal without any warning lamp? INSPECTION END. GO TO the inspection applicable to DTC.	F F
3 1. Ca 2. Dri Th YES NO	Replace transm	<pre>itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes. ITOR ITEM" display tire pressure as normal without any warning lamp? INSPECTION END. GO TO the inspection applicable to DTC.</pre>	
3 1. Ca 2. Dri Th YES NO	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes. ITOR ITEM" display tire pressure as normal without any warning lamp? INSPECTION END. GO TO the inspection applicable to DTC. E PRESSURE WARNING CONTROL UNIT	
3 1. Ca 2. Dri Th YES NO NSPI Malfu	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes. ITOR ITEM" display tire pressure as normal without any warning lamp? INSPECTION END. GO TO the inspection applicable to DTC. E PRESSURE WARNING CONTROL UNIT	
3 1. Ca 2. Dri Th YES NO NSPI Malfu 1	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes. ITOR ITEM" display tire pressure as normal without any warning lamp? INSPECTION END. GO TO the inspection applicable to DTC. E PRESSURE WARNING CONTROL UNIT	
3 1. Ca 2. Dri Th YES NO NSPI Malfu 1 • Cau	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes. ITOR ITEM" display tire pressure as normal without any warning lamp? INSPECTION END. GO TO the inspection applicable to DTC. E PRESSURE WARNING CONTROL UNIT MASUDOU	
3 1. Ca 2. Dri Th YES NO NSPI Malfu 1 • Car	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes. ITOR ITEM" display tire pressure as normal without any warning lamp? INSPECTION END. GO TO the inspection applicable to DTC. E PRESSURE WARNING CONTROL UNIT NASU004850 Does warning lamp still activate again?	
3 1. Ca 2. Dri Th YES NO NSPI Malfu 1 • Cal YES	Replace transm	itter with new one if "DATA MONITOR ITEM" displays 64 psi or more. Then GO TO 3. D VEHICLE transmitters. 25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. with CONSULT-II "DATA MONITOR ITEM" within 5 minutes. ITOR ITEM" display tire pressure as normal without any warning lamp? INSPECTION END. GO TO the inspection applicable to DTC. E PRESSURE WARNING CONTROL UNIT NASU004850 Does warning lamp still activate again? Replace low tire pressure warning control unit.	

SC

EL

Trouble Diagnoses for Symptoms INSPECTION 1: WARNING LAMP DOES NOT COME ON WHEN IGNITION SWITCH IS TURNED ON.

DIAGNOSTIC PROCEDURE

CHECK WARNING LAMP

2

1	CHECK COMBINATION METER OPERATION				
Che	Check combination meter operation.				
	OK or NG				
ОК	ОК Б О ТО 2.				
NG	NG Check combination meter.				
OK NG		Check combination meter.			

NASU0049

SEIA0232E

1. Disconnect low tire pressure warning control unit connector M156. 2. Apply ground to low tire pressure warning control unit connector M156 terminal 3 (L/Y). Image: Control unit connector M156 terminal 3



IDX

INSPECTION 2: WARNING LAMP STAYS ON WHEN IGNITION SWITCH IS TURNED ON. GI NASU0050 DIAGNOSTIC PROCEDURE 1 CHECK CONNECTOR MA 1. Disconnect low tire pressure warning control unit connector M156. 2. Check terminal for damage or loose connections. EM OK or NG GO TO 2. OK LC NG Repair or replace damaged parts. 2 **CHECK CIRCUIT** 1. Disconnect combination meter connector M24 and low tire pressure warning control unit connector M156. 2. Check continuity between tire pressure warning control unit connector M156 terminal 3 (L/Y) and combination meter connector M24 terminal 8 (L/Y). 3 (L/Y) - 8 (L/Y): Continuity should exist. CL MT Low tire pressure warning Combination control unit connector (M156) meter connector (M24) AT TF Ω SEIA0233E PD OK or NG GO TO 3. OK ► AX NG Check harness for open or short between low tire pressure warning control unit and combination meter. SU **CHECK POWER SUPPLY CIRCUIT 1** 3 • Check voltage between low tire pressure warning control unit connector M156 terminal 1 (G/R) and ground. 1 (G/R) - Ground: Battery voltage (Approx. 12V) Low tire pressure warning control unit connector (M156) P BT HA SEIA0234E SC OK or NG GO TO 4. OK ► EL NG Check low tire pressure warning control unit power supply circuit for open or short. ►

Trouble Diagnoses for Symptoms (Cont'd)





INSPECTION 3: WARNING LAMP BLINKS WHEN IGNITION SWITCH IS TURNED ON. DIAGNOSTIC PROCEDURE

NASU0051 G



HA

SC

EL

INSPECTION 4: TAIL LAMP BLINKS WHEN IGNITION SWITCH IS TURNED ON. DIAGNOSTIC PROCEDURE

HECK GROUND CIRC	UIT	
nnect low tire pressure w continuity between low - Ground: ntinuity should exist.	varning control unit connector M156. tire pressure warning control unit connector M156 terminal 11 (B) and ground.	
	Low tire pressure warning	
	control unit connector (M156)	
		SEIA0236E
	OK or NG	
•	Replace low tire pressure warning control unit.	
•	Repair or replace low tire pressure warning control unit ground circuit.	
	AECK GROUND CIRC nect low tire pressure v continuity between low - Ground: ntinuity should exist.	HECK GROUND CIRCUIT nect low tire pressure warning control unit connector M156. continuity between low tire pressure warning control unit connector M156 terminal 11 (B) and ground. - Ground: ntinuity should exist. Image: State of the pressure warning control unit connector (M156 terminal 11 (B) and ground. - Ground: Image: State of the pressure warning control unit connector (M156 terminal 11 (B) and ground. Image: State of the pressure warning control unit connector (M156 terminal 11 (B) and ground. Image: State of the pressure warning control unit connector (M156 terminal 11 (B) and ground. Image: State of the pressure warning control unit connector (M156 terminal 11 (B) and ground. Image: State of the pressure warning control unit. Image: State of the pressure warning control unit. Image: State of the pressure warning control unit ground circuit.

INSPECTION 5: ID REGISTRATION CANNOT BE COMPLETED. DIAGNOSTIC PROCEDURE

NASU0053

1	D REGISTRATION (ALL)			
 Carr 	Carry out ID registration of all transmitters.			
	Can ID registration of all transmitters be completed?			
YES	YES INSPECTION END.			
NO	NO Go To Inspection 1: Transmitter or Low Tire Pressure Warning Control Unit.			

Service Data and Specifications (SDS)

GENERAL SPECIFICATIONS (FRONT)

	NASU0016
Suspension type	Independent macpherson strut with coil spring
Strut type	Double-acting hydraulic
Stabilizer bar	Standard equipment

WHEEL ALIGNMENT (UNLADEN*1)

Unit: Degree minute (Decimal degree)

Applied model		All
	Minimum	-0°35′ (-0.58°)
Combor	Nominal	0°10′ (0.17°)
Camber	Maximum	0°55′ (0.92°)
	Left and right difference	45′ (0.75°) or less
	Minimum	2°15′ (2.25°)
Conter	Nominal	3°00′ (3.00°)
Caster	Maximum	3°45′ (3.75°)
	Left and right difference	45' (0.75°) or less

Service Data and Specifications (SDS) (Cont'd)

Applied model			All	GI	
			Minimum	13°35′ (13.58°)	
Kingpin inclination			Nominal	14°20′ (14.33°)	M
			Maximum	15°05′ (15.08°)	
			Minimum	1 mm (0.04 in)	EN
	Distance (A - B)		Nominal	2 mm (0.08 in)	LC
Total tao in			Maximum	3 mm (0.12 in)	
Total toe-In	Angle (left plus right)		Minimum	5′ (0.08°)	EC
			Nominal	10′ (0.17°)	
			Maximum	15′ (0.25°)	
	Full turn*2	Inside	Minimum	30°00′ (30.00°)	FE
			Nominal	33°00′ (33.00°)	
			Maximum	34°00′ (34.00°)	
wheel turning angle		Outside	Minimum	28°00′ (28.00°)	
			Nominal	31°00′ (31.00°)	M'
			Maximum	32°00′ (32.00°)	
	1		I		A1

*1: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

*2: On power steering models, wheel turning force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine idle.

LOWER BALL JOINT

		NASU0018	
Swinging force "A" (Measuring point: cotter pin hole of ball stud)	7.8 - 76.5 N (0.8 - 7.8 kg, 1.8 - 17.2 lb)		PD
Turning torque "B"	0.5 - 4.9 N·m (5 - 50 kg-cm, 4.3 - 43.4 in-lb)		۸V
Vertical end play "C"	0 mm (0 in)		1412A

WHEELARCH HEIGHT (UNLADEN*)

NASU0019 SU Unit: mm (in)

BR

ST

BT



SFA746B

	2WD		4WD		- H/
Applied model	P245/70 R16 tire P245/65 R17 tire	P255/65 R16 tire (With over fender)	P245/70 R16 tire P245/65 R17 tire	P255/65 R16 tire (With over fender)	_
Front (Hf)	840 (33.07)	840 (33.07)	837 (32.95)	824 (32.44)	
Rear (Hr)	867 (34.13)	817 (32.17)	867 (34.13)	817 (32.17)	EL

*: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

Service Data and Specifications (SDS) (Cont'd)

WHEEL RUNOUT AVERAGE*

	NASU0020
Unit:	mm (in)

Wheel type	Aluminum	Steel
Radial runout limit	0.3 (0.012)	0.8 (0.031)
Lateral runout limit	0.3 (0.012)	0.8 (0.031)

*: Wheel runout average = (Outside runout value + Inside runout value) x 0.5



NASU0023



Preparation

COMMERCIAL SERVICE TOOLS



Noise, Vibration and Harshness (NVH) Troubleshooting

Refer to "Noise, Vibration and Harshness (NVH) Troubleshooting", "FRONT SUSPENSION", SU-4.

PD



SU

51

R

HA

SC

EL



Components NASU0024 SEC. 380•430•431 67 - 88 Upper spring seat (140 - 157 (14.3 - 16.0, 103 - 116))(6.8 - 9.0, 49 - 65) Upper link Coil spring 25 - 32 (2.6 - 3.3, 19 - 24)Shock absorber Panhard rod 25 - 32 (2.6 - 3.3, 19 - 24) Stabilizer bar connecting rod Ø 140 - 157 (14.3 - 16.0, (@ 140 - 157 103 - 116) (14.3 - 16.0) 115 - 133 103 - 116) (11.7 - 13.6)41 - 47 Stabilizer bar 85 - 98) (4.2 - 4.8, 6 30 - 35) C 507 (H (m Front Image: N•m (kg-m, ft-lb) 25 - 32 (2.6 - 3.3, 19 - 24) Lower link 140 - 157 (14.3 - 16.0, 103 - 116) When installing each rubber part, final tightening must be carried out under unladen condition* when tires on ground. * Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions. **SRA880A**





On-vehicle Service REAR SUSPENSION PARTS

Check rear axle and rear suspension parts for excessive play, wear and damage.

- 1. Shake each rear wheel to check for excessive play.
- 2. Retighten all nuts and bolts to the specified torque.

Tightening torque: Refer to "Coil Spring and Shock Absorber", SU-40.

- 3. Check shock absorber for oil leakage and other damage.
- 4. Check shock absorber bushing for excessive wear and other damage.
- 5. Check wheelarch height. Refer to "On-vehicle Service", "FRONT SUSPENSION", SU-7.



Removal and Installation

- NASU0026 Support axle and suspension components with a suitable jack 1. and block.
- MA 2. Disconnect brake hydraulic line and parking brake cables at back plates.

CAUTION:

- EM Use flare nut wrench when removing and installing brake tubes.
- Before removing the rear suspension assembly, discon- LC nect the ABS wheel sensor from the assembly. Then move it away from the rear suspension assembly. Failure to do EC so may result in damage to the sensor wires and the sensor becoming inoperative.
- 3. Remove stabilizer bar from body.
- 4. Remove upper links and lower links from body.
- Remove panhard rod from body. 5.
- Disconnect rear end of propeller shaft. Refer to PD-8, 6. GL "Removal and Installation".
- 7. Remove upper end nuts of shock absorber.

MT

GI



AT Final tightening for rubber parts requires to be carried out under unladen condition with tires on ground.

TF

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Coil Spring and Shock Absorber

COMPONENTS

SEC. 380•430•431

When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground.

* Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.



NASU0027



REMOVAL AND INSTALLATION

REMOVAL AND INSTALLATION	GI
Refer to "Removal and Installation", "REAR SUSPENSION", SU-39	
When installing coil spring, pay attention to its direction. Be sure spring rubber seat is not twisted and has not slipped	MA
off when installing coll spring.	EM
	LC
 INSPECTION Check coil spring for yield, deformation and cracks. 	EC
 Check shock absorber for oil leakage, cracks and deformation. Check all rubber parts for wear cracks and deformation. 	FE

 Check all rubber parts for wear, cracks and deformation. Replace if necessary.

CL

MT

AT

Upper Link, Lower Link and Panhard Rod INSPECTION

Check for cracks, distortion and other damage. Replace if TF necessary.

PD

AX



Upper Link, Lower Link and Panhard Rod (Cont'd)

INSTALLATION

When installing each link, pay attention to direction of nuts and bolts.

When installing each rubber part, final tightening must be carried out under unladen condition with tires on ground.



View from B

NG

SFA449BA

ок

Stabilizer Bar REMOVAL AND INSTALLATION

• When removing and installing stabilizer bar, fix portion A.

Install stabilizer bar with ball joint socket properly placed.



Refer to "Tire Pressure Warning System", "FRONT SUSPENSION"

Service Data and Specifications (SDS)

GENERAL SPECIFICATIONS (REAR)

	NASU0034	
Suspension type	5-link type rigid with coil spring	MA
Shock absorber type	Double-acting hydraulic	
Stabilizer	Standard equipment	EM

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NOTES