# SECTION REAR SUSPENSION

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RSU

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# PRECAUTIONS

# PRECAUTIONS

## Cautions

PFP:00001

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- When installing rubber bushings, final tightening must be carried out under unladen conditions with tires on level ground. Oil will shorten the life of rubber bushings. Be sure to wipe off any spilled oil.
- Unladen conditions means that fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.
- After servicing suspension parts, be sure to check wheel alignment.
- Caulking nuts are not reusable. Always use new ones when installing. Since new caulking nuts are preoiled, tighten as they are.

# PREPARATION

# PREPARATION

# **Special Service Tools**

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PFP:00002

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description	В
ST3127S000 (J-25765-A) Preload gauge		Measuring rotating torque of ball joint	С
	O		D
	ZZA0806D		RSI
Commercial Service Tools		NES0002J	
Tool name		Description	F
Power tool		Loosening bolts and nuts	G

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# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart

PFP:00003

NES0002K

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

Reference page		RSU-7	RSU-9	I	I	I	RSU-7	FSU-6	<u>RSU-16</u>	NVH in PR section.	NVH in RFD section.	NVH in RAX and RSU sections.	NVH in WT section.	NVH in WT section.	NVH in RAX section.	NVH in BR section.	NVH in PS section.	
Possible cause and SUSPECTED 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	PROPELLER SHAFT	DIFFERENTIAL	REAR AXLE AND REAR SUSPENSION	TIRES	ROAD WHEEL	DRIVE SHAFT	BRAKES	STEERING	
		Noise	×	×	×	×	×	×			×	×	×	×	×	×	×	×
		Shake	×	×	×	×		×			×		×	×	×	×	×	×
		Vibration	×	×	×	×	×				×		×	×		×		×
Symptom	REAR SUSPENSION	Shimmy	×	×	×	×			×				×	×	×		×	×
		Judder	×	×	×								×	×	×		×	×
	Poor quality rid handling		×	×	×	×	×		×	×			×	×	×			

×: Applicable

# **REAR SUSPENSION ASSEMBLY**

REA	AR SUSPENSION ASSEMBLY PFP:55020	
On-\	Vehicle Inspection	1
Make	e sure the mounting conditions (looseness, back lash) of each component and component status (wear, age) are normal.	
INSP	ECTION SUSPENSION ARM BALL JOINT AXIAL END PLAY	
	sure axial end play by placing and moving up/down with an iron pry bar or something similar between sus- on arm and axle assembly.	(
	Axial end play : 0 mm (0 in)	
	TION: areful not to damage ball joint boot.	
SHO	CK ABSORBER INSPECTION	
Chec	k shock absorber for oil leakage, damage and replace if necessary.	R
Whe DES	eel Alignment Inspection	
	Aeasure wheel alignment under unladen conditions. "Unladen conditions" means that fuel, engine cool- int, and lubricant are full. Spare tire, jack, hand tools and mats in designated positions.	
PREI	LIMINARY INSPECTION	
• 0	Check tires for improper air pressure and wear.	
• C	Check road wheels for runout.	
• C	Check wheel bearing axial end play.	
	Check ball joint axial end play of suspension arm.	
	Check shock absorber operation.	
	Check each mounting point of axle and suspension for looseness and deformation.	
	Check each link, arm and member for cracks, deformation, and other damage.	
	Check vehicle posture.	
-	ERAL INFORMATION AND RECOMMENDATIONS	
	A four-wheel thrust alignment should be performed.	
	his type of alignment is recommended for any NISSAN/INFINITI vehicle.	
С	The four-wheel "thrust" process helps ensure that the vehicle is properly aligned and the steering wheel is centered.	
	he alignment rack itself should be capable of accepting any NISSAN/INFINITI vehicle.	
	he rack should be checked to ensure that it is level.	
	Aake sure the machine is properly calibrated.	
	four alignment equipment should be regularly calibrated in order to give correct information.	
	Check with the manufacturer of your specific equipment for their recommended Service/Calibration Schedule.	

# THE ALIGNMENT PROCESS

#### IMPORTANT:

Use only the alignment specifications listed in this Service Manual.

- When displaying the alignment settings, many alignment machines use "indicators": (Green/red, plus or • minus, Go/No Go). Do not use these indicators.
- The alignment specifications programmed into your machine that operate these indicators may not be correct.
- This may result in an ERROR.
- Some newer alignment machines are equipped with an optional "Rolling Compensation" method to "com-. pensate" the sensors (alignment targets or head units). Do not use this "Rolling Compensation" method.
- Use the "Jacking Compensation Method". After installing the alignment targets or head units, raise the vehicle and rotate the wheels 1/2 turn both ways.
- See Instructions in the alignment machine you're using for more information on this.

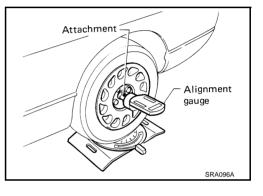
#### CAMBER INSPECTION

Measure camber of both right and left wheels with a suitable alignment gauge and adjust in accordance with the following procedures.

#### Standard value

Camber

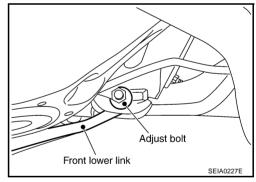
: Refer to RSU-18, "SERVICE DATA AND SPECIFICATIONS (SDS)" .



If outside the standard value, adjust with adjusting bolt in front lower link.

#### NOTE:

After adjusting camber, be sure to check toe-in.

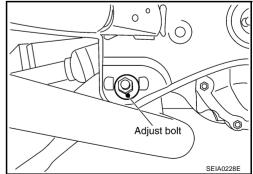


### **TOE-IN**

If toe-in is not within the specification, adjust with adjusting bolt in rear lower link.

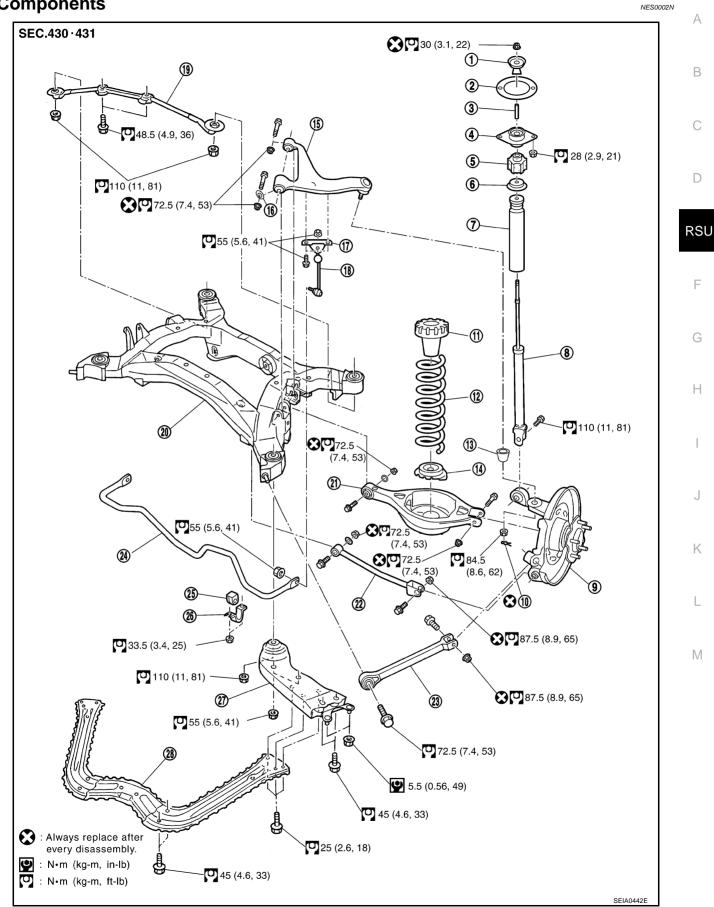
#### **CAUTION:**

Be sure to adjust equally on RH and LH side with adjusting bolt. If toe-in is not still within the specification, inspect and replace any damaged or worn rear suspension parts.



## **REAR SUSPENSION ASSEMBLY**

### **Components**



# REAR SUSPENSION ASSEMBLY

- 1. Bushing
- 4. Mounting seal bracket
- 7. Bound bumper
- 10. Cotter pin
- 13. Ball seat
- 16. Stopper rubber
- 19. Rear pin stay
- 22. Front lower link
- 25. Stabilizer bushing
- 28. Tunnel stay

# Removal and Installation REMOVAL

- 1. Remove tires from vehicle with power tool.
- Remove brake caliper with power tool. Hang it in a place where it will not interfere with work. Refer to <u>BR-27, "REAR DISC BRAKE"</u>.

#### NOTE:

Avoid depressing brake pedal while brake caliper is removed.

- 3. Remove disc rotor. BR-28, "Removal and Installation of Caliper Assembly".
- 4. Remove stabilizer bar. Refer to RSU-16, "STABILIZER BAR" .
- 5. Remove exhaust front tube. Refer to EX-3, "EXHAUST SYSTEM" .
- 6. Remove propeller shaft. Refer to PR-4, "REAR PROPELLER SHAFT".
- 7. Separate the attachment between parking brake cable and vehicle and rear suspension member. Refer to <u>PB-6, "PARKING BRAKE CONTROL"</u>.
- 8. Remove wheel sensor from rear final drive. Refer to BRC-58, "WHEEL SENSOR" .
- 9. Remove rear lower link and coil spring. Refer to RSU-15, "REAR LOWER LINK & COIL SPRING" .
- 10. Remove mounting nuts in upper side of mounting seal bracket. Refer to RSU-9, "SHOCK ABSORBER" .
- 11. Set jack under rear final drive.
- 12. Remove tunnel stay and member stay from vehicle.
- 13. Remove mounting bolts and nuts of rear pin stay and then remove rear pin stay from vehicle.
- 14. Gradually lowering jack, remove rear suspension assembly.

### INSTALLATION

Refer to <u>RSU-7, "Components"</u> for tightening torque. Install in the reverse order of removal.
 NOTE:

Refer to component parts location and do not reuse non-reusable parts.

 Perform final tightening of installation position of links (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to <u>RSU-5</u>, "Wheel Alignment Inspection".

- 2. Mounting seal
- 5. Bushing
- 8. Shock absorber
- 11. Upper seat
- 14. Rubber seat
- 17. Stabilizer connecting rod mounting bracket
- 20. Rear suspension member
- 23. Radius rod
- 26. Stabilizer clamp

- 3. Distance tube
- 6. Bound bumper cover
- 9. Axle
- 12. Coil spring
- 15. Suspension arm
- 18. Stabilizer connecting rod
- 21. Rear lower link
- 24. Stabilizer bar
- 27. Member stay

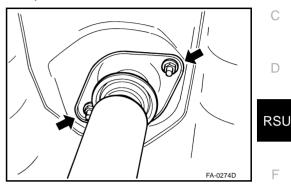
NES00020

# SHOCK ABSORBER

## SHOCK ABSORBER

#### **Removal and Installation** REMOVAL

- 1. Remove tires from vehicle with power tool.
- 2. Set jack under rear lower link.
- 3. Remove mounting bolt in lower side of shock absorber assembly with power tool.
- 4 Remove mounting seal bracket mounting nuts of shock absorber upper side with power tool and remove shock absorber from vehicle.



#### INSPECTION AFTER REMOVAL Check shock absorber assembly for deformation, cracks, damage, and replace if necessary. Check piston rod for damage, uneven wear, distortion, and replace if necessary. Check welded and sealed areas for oil leakage, and replace if necessary. INSTALLATION Н Refer to RSU-7, "Components" for tightening torque. Install in the reverse order of removal. NOTE: Refer to component parts location and do not reuse non-reusable parts. Perform final tightening of shock absorber assembly lower side (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to RSU-18, "SERVICE DATA AND SPECIFICA-TIONS (SDS)" . Disassembly and Assembly NES0002Q DISASSEMBLÝ Κ **CAUTION:** Make sure piston rod on shock absorber is not damaged when removing components from shock absorber. L 1. Remove mounting seal from mounting seal bracket. 2. Wrap a shop cloth around lower side of shock absorber and fix it in a vise. CAUTION: Μ Do not set the cylindrical part of shock absorber in vice.

- 3. Secure piston rod tip so that piston rod does not turn, and remove piston rod lock nut.
- 4. Remove bushing (upper side), distance tube, mounting seal bracket, bushing (lower side), bound bumper cover and bound bumper from shock absorber.

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# SHOCK ABSORBER

#### INSPECTION AFTER DISASSEMBLY

#### **Bound Bumper and Bushing**

Check bound bumper and bushing for cracks, deformation or other damage. Replace if necessary.

#### ASSEMBLY

Refer to <u>RSU-7</u>, "Components" for tightening torque. Install in the reverse order of removal.

NOTE:

Refer to component parts location and do not reuse non-reusable parts.

#### **CAUTION:**

Make sure piston rod on shock absorber is not damaged when attaching components to shock absorber.

# SUSPENSION ARM

5	JSPENSION ARM	PFP:55501	
	moval and Installation	NES0002R	1
	MOVAL		
1.	Remove tires from vehicle with power tool.		
2.	Remove drive shaft. Refer to <u>RAX-10, "REAR DRIVE SHAFT"</u> .		
3.	Remove mounting nuts and bolts between suspension arm and re	ear suspension member.	
4.	Remove cotter pin of suspension arm ball joint, and loosen nut.		(
5.	Use a ball joint remover (suitable tool) to remove suspension arm joint boot.	from axle. Be careful not to damage ball	
	CAUTION:		
	Tighten temporarily mounting nut to prevent damage to thre (suitable tool) from coming off.	ads and to prevent ball joint remover	
6.	Remove suspension arm and stopper rubber from vehicle.		R
IN	SPECTION AFTER REMOVAL		
Vis	ual Inspection		
•	Check suspension arm and bushing for deformation, cracks, or c found, replace it.	lamage. If any non-standard condition is	
•	Check boot of ball joint for cracks, or damage, and also for greas	e leakage.	
Ba	II Joint Inspection		
	nually move ball stud to confirm it moves smoothly with no binding		
	ing Torque Inspection TE:		
	ore measuring, move ball joint at least 10 times by hand to check ∶	for smooth movement	
•	Hook a spring balance at cotter pin mounting hole. Confirm spring balance measurement value is within the specifications		
	when ball stud begins moving.	On the state of the	
	Swing torque:	Spring balance /	
	0.5 - 3.4 N⋅m (0.06 - 0.34 kg-m, 5 - 30 in-lb)		
	Measured value of spring balance:	Dector	
	8.06 - 54.8 N (0.83 - 5.5 kg, 1.81 - 12.32 lb)		
•	If it is outside the specified range, replace suspension arm		
•	assembly.	SEI40523E	
_	tating Torque Inspection	SEIA0523E	

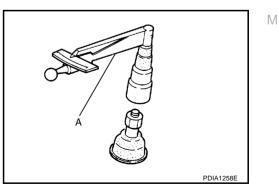
#### **Rotating Torque Inspection**

• Attach mounting nut to ball stud. Check that rotating torque is within the specifications with a preload gauge.

# Tool number A: ST3127S000 (J-25765-A) Rotating torque:

#### 0.5 - 3.4 N·m (0.06 - 0.34 kg-m, 5 - 30 in-lb)

• If it is outside the specified range, replace suspension arm assembly.



#### **Axial End Play Inspection**

• Move tip of ball joint in axial direction to check for looseness.

#### Axial end play : 0 mm (0 in)

• If it is outside the specified range, replace suspension arm assembly.

#### INSTALLATION

Refer to <u>RSU-7, "Components"</u> for tightening torque. Install in the reverse order of removal.
 NOTE:

Refer to component parts location and do not reuse non-reusable parts.

 Perform final tightening of rear suspension member installation position (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to <u>RSU-18, "SERVICE DATA AND</u> <u>SPECIFICATIONS (SDS)"</u>.

# **RADIUS ROD**

R/	ADIUS ROD PFP:55110	
	emoval and Installation	A
1.	Remove tires from vehicle with power tool.	В
2.	Remove brake caliper with power tool. Hang it in a place where it will not interfere with work. Refer to <u>BR-27, "REAR DISC BRAKE"</u> .	D
	NOTE:	С
	Avoid depressing brake pedal while brake caliper is removed.	0
3.	Remove mounting bolt and nut in axle side of radius rod with power tool.	
4.	Remove rear lower link and coil spring. Refer to <u>RSU-15, "REAR LOWER LINK &amp; COIL SPRING"</u> .	D
5.	Remove mounting bolt in lower side of shock absorber with power tool. Refer to <u>RSU-9</u> , <u>"SHOCK</u> <u>ABSORBER"</u> .	
6.	Remove mounting bolt and nut in axle side of front lower link with power tool. Refer to <u>RSU-14, "FRONT</u> <u>LOWER LINK"</u> .	RSU
7.	Remove mounting bolt in rear suspension member side of radius rod with power tool, then remove radius rod from vehicle.	F
INS	SPECTION AFTER REMOVAL	Γ
Ch	eck radius rod and bushing for any deformation, cracks, or damage. Replace if necessary.	
INS	STALLATION	G
•	Refer to <u>RSU-7, "Components"</u> for tightening torque. Install in the reverse order of removal.	
	NOTE:	Н
	Refer to component parts location and do not reuse non-reusable parts.	
•	Perform final tightening of rear suspension member and axle installation position (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to <u>RSU-18</u> , <u>"SERVICE DATA</u> <u>AND SPECIFICATIONS (SDS)"</u> .	I
		J
		K
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# FRONT LOWER LINK

# FRONT LOWER LINK

# Removal and Installation REMOVAL

- 1. Remove tires from vehicle with power tool.
- 2. Set jack under rear lower link.
- 3. Remove mounting nut and bolt between front lower link and rear suspension member with power tool.
- 4. Remove mounting nut and bolt between front lower link and axle with power tool.
- 5. Remove front lower link from vehicle.

#### **INSPECTION AFTER REMOVAL**

Check front lower link and bushing for any deformation, cracks, or damage. Replace if necessary.

#### INSTALLATION

 Refer to <u>RSU-7, "Components"</u> for tightening torque. Install in the reverse order of removal. NOTE:

Refer to component parts location and do not reuse non-reusable parts.

 Perform final tightening of rear suspension member and axle installation position (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to <u>RSU-18</u>, <u>"SERVICE DATA</u> <u>AND SPECIFICATIONS (SDS)"</u>.

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# **REAR LOWER LINK & COIL SPRING**

# **REAR LOWER LINK & COIL SPRING**

# Removal and Installation

- 1. Remove tires from vehicle with power tool.
- 2. Set jack under rear lower link.
- 3. Loosen mounting bolt and nut of rear lower link in side of suspension member, and then remove mounting bolt and nut in side of axle with power tool.
- 4. Slowly lower jack, then remove upper seat, coil spring and rubber sheet from rear lower link.
- 5. Remove mounting bolt and nut in side of rear suspension member to remove rear lower link with power tool.

#### **INSPECTION AFTER REMOVAL**

Check rear lower link, bushing and coil spring for deformation, cracks, and damage. Replace rear lower link and coil spring if necessary.

#### INSTALLATION

- Refer to <u>RSU-7, "Components"</u> for tightening torque. Install in the reverse order of removal.
   NOTE:
  - Refer to component parts location and do not reuse non-reusable parts.
- Check that upper seat is attached as shown in the figure.
   NOTE:

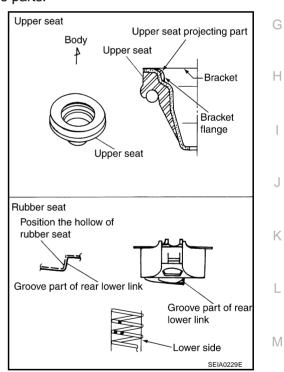
Insert bracket tabs (3) and the inside protrusion on upper seat into each other beforehand as shown in the figure.

 Match up rubber seat indentions and rear lower link grooves and attach.

#### NOTE:

Make sure spring is not up side down. The top and bottom are indicated by paint color.

 Perform final tightening of rear suspension member and axle installation position (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to <u>RSU-5, "Wheel Alignment Inspection"</u>.



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# STABILIZER BAR

# STABILIZER BAR

Removal and Installation REMOVAL

- 1. Remove mounting bolts and remove stabilizer connecting rod mount bracket from suspension arm.
- 2. Remove lower side mounting nut on stabilizer connecting rod and remove stabilizer connecting rod from stabilizer bar with power tool.
- 3. Remove mounting nut on stabilizer clamp and remove stabilizer from vehicle with power tool.

#### **INSPECTION AFTER REMOVAL**

Check stabilizer bar, stabilizer bushings, stabilizer clamps, stabilizer connecting rod, stabilizer connecting rod mounting bracket for any deformation, crack or damage. Replace if necessary.

#### INSTALLATION

Refer to <u>RSU-7, "Components"</u> for tightening torque. Install in the reverse order of removal.
 NOTE:

Refer to component parts location and do not reuse non-reusable parts.

Revision: 2006 August

PFP:56230

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# **REAR SUSPENSION MEMBER**

R	EAR SUSPENSION MEMBER PFP:55501	
	emoval and Installation	
1		
2	·	
	<b>NOTE:</b> Avoid depressing brake pedal while brake caliper is removed.	
3		
4	Remove stabilizer bar. Refer to <u>RSU-16, "STABILIZER BAR"</u> .	
5	Remove drive shaft. Refer to <u>RAX-10, "REAR DRIVE SHAFT"</u> .	
6	Remove final drive. Refer to RFD-17, "REAR FINAL DRIVE ASSEMBLY".	
7	Separate the attachment between parking brake cable and vehicle and rear suspension member. Refer to <u>PB-6, "PARKING BRAKE CONTROL"</u> .	F
8	Remove rear lower link and coil spring. Refer to RSU-15, "REAR LOWER LINK & COIL SPRING".	
9	Remove mounting bolt in lower side of shock absorber. Refer to RSU-9, "SHOCK ABSORBER".	
1	<ol><li>Set jack under rear suspension member.</li></ol>	
1	<ol> <li>Remove mounting bolts and nuts tunnel stay and member stay from vehicle.</li> </ol>	
1	2. Remove mounting bolts and nuts of rear pin stay and then remove rear pin stay from vehicle.	
1	<ol><li>Slowly lowering jack, then remove rear suspension member, suspension arm, radius rod, front lower link and axle from vehicle as a unit.</li></ol>	
1	4. Remove mounting bolts and nuts, then remove suspension arm, front lower link, radius rod from rear suspension member.	
IN	ISPECTION AFTER REMOVAL	
С	heck rear suspension member for deformation, cracks, and other damage and replace if necessary.	
	ISTALLATION	
	Refer to <u>RSU-7</u> , " <u>Components</u> ", for tightening torque. Install in the reverse order of removal.	
•	NOTE:	
	Refer to component parts location and do not reuse non-reusable parts.	
•	Perform final tightening of installation position of links (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to <u>RSU-18</u> , "SERVICE DATA AND SPECIFICATIONS	
	<u>(SDS)"</u> .	

M

# SERVICE DATA AND SPECIFICATIONS (SDS)

# SERVICE DATA AND SPECIFICATIONS (SDS) Wheel Alignment (Unladen\*)

PFP:00030

٨	IES	200	A5

NES000A6

NES000A7

Camber Degree minute (Decimal degree)		Minimum	-1°45′ (-1.75°)
		Nominal	-1°15′ (-1.25°)
		Maximum	-0°45′ (-0.75°)
Total toe-in -	Distance	Minimum	0.1 mm (0.004 in)
		Nominal	2.8 mm (0.110 in)
		Maximum	5.5 mm (0.217 in)
	Angle (left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0°00′ (0.00°)
		Nominal	0°07′ (0.12°)
		Maximum	0°14′ (0.23°)

\*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

### **Ball Joint**

Axial end play	0 mm (0 in)
Swing torque	0.5 - 3.4 N·m (0.06 - 0.34 kg-m, 5 - 30 in-lb)
Measurement on spring balance (cotter pinhole position)	8.06 - 54.8 N (0.83 - 5.5 kg, 1.81 - 12.32 lb)
Rotating torque	0.5 - 3.4 N⋅m (0.06 - 0.34 kg-m, 5 - 30 in-lb)

# Wheelarch Height (Unladen\*)

Hf

SE48184

		or no ton	
Applied model	225/50R17 (Front)	225/45R18 (Front)	225/40R19 (Front)
	235/50R17 (Rear)	245/45R18 (Rear)	245/40R19 (Rear)
Front (Hf)	691 mm (27.20 in)	694 mm (27.32 in)	699 mm (27.52 in)
Rear (Hr)	702 mm (27.64 in)	710 mm	(27.95 in)

\*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.