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# **PRECAUTIONS**

PRECAUTIONS PFP:00001

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Precautions

 When installing rubber bushings, final tightening must be carried out under unladen conditions with tires on ground. Oil will shorten the life of rubber bushings. Be sure to wipe off any spilled oil.

- Unladen conditions mean 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 PFP:00002

# **Special Service Tools (SST)**

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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
ST3127S000 (See J25742-1) Preload Gauge 1. GG91030000	1 2 0 NT124	Measuring rotating torque of ball joint

# **Commercial Service Tools**

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Tool name		Description
Power tool	PBIC0190E	<ul> <li>Removing wheel nuts</li> <li>Removing brake caliper assembly</li> <li>Removing rear suspension component parts</li> </ul>

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# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

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

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

Reference	page		RSU-7	RSU-10	I	I	I	RSU-7	RSU-5	RSU-16	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 ride or handling	×	×	×	×	×		×	×			×	×	×			

<sup>×:</sup> Applicable

#### REAR SUSPENSION ASSEMBLY

#### **REAR SUSPENSION ASSEMBLY**

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# **On-Vehicle Inspection and Service**

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Make sure the mounting conditions (looseness, back lash) of each component and component status (wear, damage) are normal.

#### INSPECTION OF SUSPENSION ARM BALL JOINT END PLAY

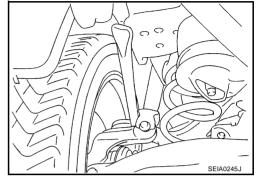
Measure axial end play by installing and moving up/down with an iron pry bar or something similar between suspension arm and axle.

Standard value

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

**CAUTION:** 

Be careful not to damage ball joint boot.



# SHOCK ABSORBER INSPECTION

Check shock absorber for oil leakage, damage and replace if necessary.

# Wheel Alignment Inspection **DESCRIPTION**

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Measure wheel alignment under unladen conditions. "Unladen conditions" means that fuel, engine coolant, and lubricant are full. Spare tire, jack, hand tools and mats in designated positions.

#### PRELIMINARY INSPECTION

- Check tires for improper air pressure and wear.
- Check road wheels for runout.
- 3. Check wheel bearing axial end play.
- 4. Check ball joint axial end play of suspension arm.
- 5. 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.
- 8. Check vehicle posture.

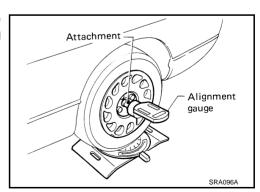
#### **CAMBER INSPECTION**

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

Standard value

Revision: 2005 July

Camber : Refer to RSU-18, "SERVICE DATA"



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RSU-5 2005 G35 Sedan

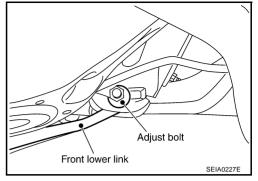
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# **REAR SUSPENSION ASSEMBLY**

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

#### NOTE:

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

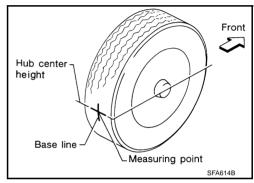


#### **TOE-IN**

Measure toe-in using following procedure. If out of specification, inspect and replace any damaged or worn rear suspension parts.

#### **WARNING:**

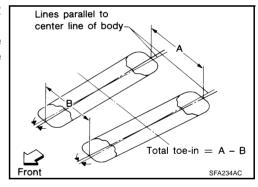
- Always perform the following procedure on a flat surface.
- Make sure that no person is in front of vehicle before pushing it.
- 1. Bounce rear of vehicle up and down to stabilize the posture.
- 2. Push vehicle straight ahead about 5 m (16 ft).
- 3. Put a mark on base line of the tread (rear side) of both tires at the same height of hub center. These are measuring point.
- Measure distance "A" (rear side).



- 5. Push vehicle slowly ahead to rotate wheels 180 degrees (1/2 turn).
  - If wheels have rotated more than 180 degrees (1/2 turn), try the above procedure again from the beginning. Never push vehicle backward.
- 6. Measure distance "B" (front side).

#### Standard value

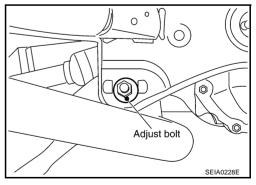
Total toe-in : Refer to RSU-18, "SERVICE DATA".



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

#### **CAUTION:**

Be sure to adjust equally on RH and LH side with adjusting bolt.



Components SEC.430 · 431 27 - 33 (2.8 - 3.3, 20 - 24) ① 2 3 4 65 - 80 (6.7 - 8.1, 48 - 59)<sup>(1)</sup> 26 - 30 **6**) (2.7 - 3.0, 20 - 22) 7 50 - 60 (5.1 - 6.1, 37 - 44)< 100 - 120  $(\bar{1}1 - 12,$ 74 - 88) -(8) 12 (13) 100 - 120 (6.7 - 8.1, (11 - 12, 48 - 59) 74 - 88) 50 - 60 (5.1 - 6.1, 37 - 44) 65 - 80 (6.7 - 8.1, 48 - 59) 22) 40 - 50 (5.1 - 6.1, 37 - 44) 65 - 80 (6.7 - 8.1, 48 - 59) 23 27 - 40 75 - 94 (7.7 - 9.5, 56 - 69) 24 (2.8 - 4.0, 20 - 29)**(2)** (10) 80 - 95 27 - 40 (8.2 - 9.6, 59 - 70) (2.8 - 4.0, 20 - 29) 27) 80 - 95 (8.2 - 9.6, 59 - 70) 100 - 120 (11 - 12, 74 - 88) 65 - 80 100 - 120 (6.7 - 8.1, 48 - 59) (11 - 12, 74 - 88) 44 - 54 (4.5 - 5.5, 33 - 39): Always replace after every disassembly : N•m (kg-m, ft-lb) — 🔽 44 - 54 (4.5 - 5.5, 33 - 39) SEIA0421E

Revision: 2005 July RSU-7 2005 G35 Sedan

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#### REAR SUSPENSION ASSEMBLY

1.	Washer	2.	Shock absorber mounting seal	3.	Distance tube
4.	Shock absorber mounting insulator	5.	Bushing	6.	Bound bumper cover
7.	Bound bumper	8.	Shock absorber	9.	Axle assembly
10.	Cotter pin	11.	Upper seat	12.	Coil spring
13.	Ball seat	14.	Rubber seat	15.	Suspension arm
16.	Connecting rod mounting bracket	17.	Connecting rod	18.	Mount stopper
19.	Rear lower link	20.	Front lower link	21.	Radius rod
22.	Bushing	23.	Clamp	24.	Stabilizer bar
25.	Bushing	26.	Clamp	27.	Member stay
28.	Member stay	29.	Stopper rubber		

# Removal and Installation REMOVAL

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- 1. Remove tire with power tool.
- 2. Remove brake caliper with power tool. Hang it in a place where it will not interfere with work. Refer to <u>BR-38</u>, "REAR DISC BRAKE".

#### NOTE:

Avoid depressing brake pedal while brake caliper is removed.

- 3. Remove stabilizer bar. Refer to RSU-16, "STABILIZER BAR".
- 4. Remove rear exhaust tube. Refer to EX-3, "EXHAUST SYSTEM".
- 5. Remove rear propeller shaft. Refer to <u>PR-4, "REAR PROPELLER SHAFT"</u> (2WD models), <u>PR-16, "REAR PROPELLER SHAFT"</u> (AWD models).
- 6. Separate attachment bolts between parking brake cable and vehicle and rear suspension member. Refer to PB-5, "PARKING BRAKE CONTROL".
- 7. Remove wheel sensor from rear final drive.
- 8. Remove rear lower link and coil spring. Refer to RSU-15, "REAR LOWER LINK & COIL SPRING".
- 9. Remove fixing bolt in upper side of mounting seal bracket. Refer to RSU-9, "SHOCK ABSORBER".
- 10. Set jack under rear final drive.
- 11. Remove member stay from vehicle.
- 12. Remove mount stopper mounting nut.
- 13. Gradually lowering jack, remove rear suspension assembly.

#### INSTALLATION

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 installation position of links (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to <u>RSU-18</u>, "<u>SERVICE DATA</u>".

#### SHOCK ABSORBER

#### SHOCK ABSORBER

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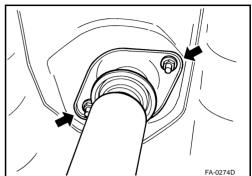
#### Removal and Installation **REMOVAL**

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- 1. Remove tire with power tool.
- 2. Set jack under rear lower link.
- 3. Remove rear seat cushion, rear seat back and rear parcel shelf finisher.
- Remove shock absorber mounting insulator fixing nuts of shock absorber upper side with 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 or distortion, and replace if necessary.
- Check welded and sealed areas for oil leakage, and replace if necessary.

#### INSTALLATION

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

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-5, "Wheel Alignment Inspection".

#### **Disassembly and Assembly** DISASSEMBLY

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#### **CAUTION:**

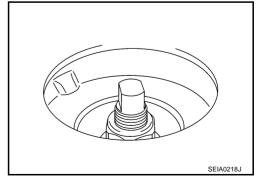
Make sure piston rod on shock absorber is not damaged when removing components from shock absorber.

- 1. Remove shock absorber mounting seal from shock absorber mounting insulator.
- 2. Wrap a shop cloth around lower side of shock absorber and fix it in a vise.

#### **CAUTION:**

Do not set the cylindrical part of shock absorber in vise.

- 3. Secure piston rod tip so that piston rod does not turn, and remove piston rod lock nut.
- 4. Remove washer, distance tube, bushing, 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 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.

#### CAUTION

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

SUSPENSION ARM PFP:55501

# Removal and Installation

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- 1. Remove tire with power tool.
- 2. Remove drive shaft. Refer to RAX-10, "REAR DRIVE SHAFT".
- 3. Remove connecting rod mounting bracket from suspension arm with power tool.
- 4. Remove fixing nuts and bolts between suspension arm and rear suspension member.
- 5. Remove cotter pin of suspension arm ball joint, and loosen nut.
- 6. Use a ball joint remover (suitable tool) to remove suspension arm from axle. Be careful not to damage ball joint boot.

#### **CAUTION:**

Tighten temporarily mounting nut to prevent damage to threads and to prevent ball joint remover (suitable tool) from coming off.

7. Remove suspension arm and stopper rubber from vehicle.

#### **INSPECTION AFTER REMOVAL**

#### Visual Inspection

- Check suspension arm and bushing for deformation, cracks or damage. If any non-standard condition is found, replace it.
- Check boot of ball joint for cracks or damage, and also for grease leakage.

# **Ball Joint Inspection**

Manually move ball joint at least ten times by hand to check for smooth movement.

#### **Swing Torque Inspection**

 Hook spring scale at cotter pin mounting hole. Confirm spring scale measurement value is within specifications when ball stud begins moving.

Standard value

Swing torque:

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

**Measured value of spring scale:** 

8.06 - 54.8 N (0.82 - 5.5 kg, 1.81 - 12.32 lb)

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

# **Rotating Torque Inspection**

 Attach mounting nut to ball stud. Make sure that rotating torque is within the specifications with a preload gauge (SST)

Standard value

**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.

# ST3127 S000 ( See J25765 - A)

Spring scale

Hook spring scale

# **Axial End Play Inspection**

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

Standard value

Axial end play : 0 mm (0 in)

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

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# SUSPENSION ARM

#### **INSTALLATION**

• 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.

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

#### **RADIUS ROD**

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**RADIUS ROD** PFP:55110 Removal and Installation AES0001U **REMOVAL** Remove tire with power tool. Remove brake caliper with power tool. Hang it in a place where it will not interfere with work. Refer to BR-38, "REAR DISC BRAKE". NOTE: Avoid depressing brake pedal while brake caliper is removed. 3. Remove fixing bolt and nut in axle side of radius rod with power tool. Remove rear lower link and coil spring. Refer to RSU-15, "REAR LOWER LINK & COIL SPRING". Remove fixing bolt in lower side of shock absorber with power tool. Remove fixing bolt and nut in axle side of front lower link with power tool. 7 Remove fixing bolt in rear suspension member side of radius rod with power tool, then remove radius rod RSU from vehicle. INSPECTION AFTER REMOVAL Check radius rod and bushing for any deformation, cracks, or damage. Replace if necessary. INSTALLATION Refer to RSU-7, "Components" for each 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 RSU-5, "Wheel Alignment Inspection".

**RSU-13** Revision: 2005 July 2005 G35 Sedan

# FRONT LOWER LINK

#### FRONT LOWER LINK

PFP:55110

AES0001V

# Removal and Installation REMOVAL

- 1. Remove tire with power tool.
- 2. Set jack under rear lower link.
- 3. Remove fixing nut and bolt between front lower link and rear suspension member with power tool.
- 4. Remove fixing 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</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.

 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</u>, "Wheel Alignment <u>Inspection"</u>.

# **REAR LOWER LINK & COIL SPRING**

#### **REAR LOWER LINK & COIL SPRING**

PFP:551B0

# Removal and Installation

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- 1. Remove tire with power tool.
- 2. Set jack under rear lower link.
- 3. Loosen fixing bolt and nut of rear lower link in side of suspension member, and then remove fixing 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 fixing bolt and nut in side of 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</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.

Check that upper seat is attached as shown in the figure.

#### NOTE:

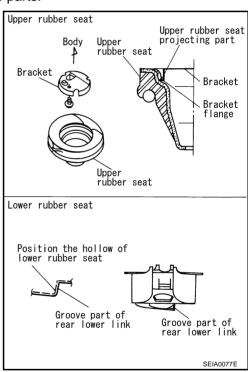
Insert bracket tabs (3) and the inside protrusion on upper seat into each other beforehand as shown in the figure.

 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 RSU-5, "Wheel Alignment Inspection".



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# STABILIZER BAR

STABILIZER BAR PFP:56230

# Removal and Installation REMOVAL

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- 1. Remove dynamic damper of exhaust tube.
- 2. Remove lower side fixing nut on stabilizer connecting rod and remove stabilizer connecting rod from stabilizer bar with power tool.
- 3. Remove fixing nut on stabilizer clamp and remove stabilizer from vehicle with power tool.

#### INSPECTION AFTER REMOVAL

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

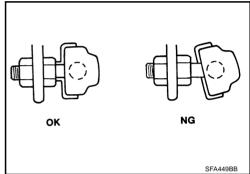
#### INSTALLATION

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.

• Stabilizer bar uses pillow ball type connecting rod, position ball joint with case on pillow ball head parallel to stabilizer bar.



#### **REAR SUSPENSION MEMBER**

# **REAR SUSPENSION MEMBER** PFP:55501 Α Removal and Installation AFS000TT **REMOVAL** Remove tire with power tool. В Remove brake caliper with power tool. Hang it in a place where it will not interfere with work. Refer to BR-38, "REAR DISC BRAKE". NOTE: Avoid depressing brake pedal while brake caliper is removed. 3. Remove rear exhaust tube. Refer to EX-3, "EXHAUST SYSTEM". Remove stabilizer bar, Refer to RSU-16, "STABILIZER BAR". $\mathsf{D}$ Remove drive shaft. Refer to RAX-10, "REAR DRIVE SHAFT". Remove final drive. Refer to RFD-15, "REAR FINAL DRIVE ASSEMBLY". 7 Separate the attachment between parking brake cable and vehicle and rear suspension member. Refer to RSU PB-5, "PARKING BRAKE CONTROL". 8. Remove rear lower link and coil spring. Refer to RSU-15, "REAR LOWER LINK & COIL SPRING". 9. Remove fixing bolt in lower side of shock absorber. F 10. Set jack under rear suspension member. 11. Remove mounting bolts and nuts of member stay from vehicle. 12. Remove mounting nuts of mount stopper. 13. Slowly lowering jack, then remove rear suspension member, suspension arm, radius rod, front lower link and axle from vehicle as a unit. Н 14. Remove fixing bolts and nuts, then remove suspension arm, front lower link, radius rod from rear suspension member. INSPECTION AFTER REMOVAL Check rear suspension member for deformation, cracks, and other damage and replace if necessary. INSTALLATION 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 installation position of links (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to RSU-18, "SERVICE DATA".

# **SERVICE DATA**

# SERVICE DATA PFP:00030

# Wheel Alignment (Unladen \*)

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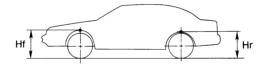
Tire		18 inch	Except 18 inch				
		Minimum	- 1°10′ (-1.17°)	- 1°05′ (- 1.08°)			
Camber		Nominal	- 0° 40′ (-0.67°)	- 0°35′ (- 0.58°)			
Degree minute (Decima	Degree minute (Decimal degree)		- 0° 10′ (-0.17°)	- 0°05′ (- 0.08°)			
		Left and right difference	45′ (0.75°)				
			0.1 mm	(0.004 in)			
Total toe-in Distance (A - B)		Nominal	2.8 mm (0.110 in)				
		Maximum	5.5 mm (0.217 in)				

Ball Joint AES0014X

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\*)

AES0014Y



SFA818A

Tire	215/55R17	235/45R18
Front (Hf)	711 mm (27.99 in)	714 mm (28.11 in)
Rear (Hr)	704 mm (27.72 in)	705 mm (27.76 in)

<sup>\*:</sup> Fuel, engine coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.