GROUP 34

REAR SUSPENSION

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GENERAL DESCRIPTION

M1341000100375

A low-mount multilink suspension system is used to reduce road noise, making the vehicle quieter by all suspension arms except a trailing arm connected to the crossmembers with an elastic structure.

CONSTRUCTION DIAGRAM



AC305738AB

REAR SUSPENSION DIAGNOSIS

INTRODUCTION TO REAR SUSPENSION DIAGNOSIS

M1341013100245

If the rear suspension is faulty, the vehicle will not run straightforward or noise will occur. Incorrect wheel alignment, malfunction of shock absorber, stabilizer bar, coil spring, control arms or wom or out-of-balance will cause these problems.

REAR SUSPENSION DIAGNOSTIC TROUBLESHOOTING STRATEGY

Use these steps to plan your diagnostic strategy. If you follow them thoroughly, you will be sure that you have exhausted most of the possible ways to find a rear suspension fault.

- 1. Gather information from the customer.
- 2. Verify that the condition described by the customer exists.
- 3. Find the malfunction by following the Symptom Chart.
- 4. Verify malfunction is eliminated.

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SYMPTOM CHART

SYMPTOM	INSPECTION PROCEDURE	REFERENCE PAGE
Squeaks or other abnormal noise	1	P.34-3
Poor ride	2	P.34-3
Body tilting	3	P.34-4

SYMPTOM PROCEDURES

INSPECTION PROCEDURE 1: Squeaks or other Abnormal Noise		
DIAGNOSIS	STEP 3. Check the upper arms and/or lower arms and/or toe control arms for deformity or damage.	
STEP 1. Check for loose rear suspension installation bolts and nuts.	Q: Are the upper arms and/or lower arms and/or toe control arms in good condition?	
 Q: Are the rear suspension installation bolts and nuts loose? YES : Retighten them, and then go to Step 5. NO : Go to Step 2. 	YES : Go to Step 4. NO : Replace the faulty part, and then go to Step 5.	
	STEP 4. Check the trailing arms for deformity or	
STEP 2. Check the condition of the shock	damage.	
absorbers (worn bushings).	Q: Are the trailing arms in good condition?	
Q: Are the shock absorbers (bushings) in good condition? YES : Go to Step 3.	YES : Go to Step 5. NO : Replace the faulty part, and then go to Step 5.	

NO: Replace the faulty part, and then go to Step 5.

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STEP 5. Retest the system.

Q: Is the malfunction eliminated? YES : The procedure is complete. NO: Return to Step 1.

INSPECTION PROCEDURE 2: Poor Ride

DIAGNOSIS

STEP 1. Check for excessive tire inflation pressure.

Refer to GROUP 31, On-vehicle Service - Tire Inflation Pressure Check P.31-7.

Q: Is the tire inflation pressure correct?

YES: Go to Step 2.

NO: Adjust the pressure, and then go to Step 4.

STEP 2. Check the condition of the shock absorbers (weak or broken springs).

- Q: Are the shock absorbers in good condition? YES : Go to Step 3.
 - NO: Replace the faulty part, and then go to Step 4.

STEP 3. Check the stabilizer bar and/or stabilizer ST bar links for deformity or damage.

- Q: Are the stabilizer bar and/or stabilizer bar links deformed or damaged?
 - **YES** : Replace the faulty part, and then go to Step 4.
 - **NO**: Go to Step 4.

INSPECTION PROCEDURE 3: Body Tilting

DIAGNOSIS

STEP 1. Check for weak or deteriorated bushings.

- Q: Are the bushings in good condition?
 - YES: Go to Step 2.
 - **NO :** Replace the faulty part, and then go to Step 5.

STEP 2. Check for weak or broken coil springs.

Q: Are the coil springs in good condition?

- YES: Go to Step 3.
- **NO**: Replace the faulty part, and then go to Step 5.

STEP 4. Retest the system.

Q: Is the malfunction eliminated? YES : The procedure is complete. NO : Return to Step 1.

- STEP 3. Check the upper arms and/or lower arms and/or toe control arms for deformity or damage.
- Q: Are the upper arms and/or lower arms and/or toe control arms deformed or damaged?
 - **YES** : Replace the faulty part, and then go to Step 5.
 - NO: Go to Step 4.

STEP 4. Check the trailing arms for deformity or damage.

Q: Are the trailing arms deformed or damaged? YES : Replace the faulty part, and then go to Step 5.

NO: Go to Step 5.

STEP 5. Retest the system.

- Q: Is the malfunction eliminated?
 - **YES** : The procedure is complete.
 - NO: Return to Step 1.

REAR SUSPENSION SPECIAL TOOLS

SPECIAL TOOLS

M1341000600433

TOOL	TOOL NUMBER AND NAME	SUPERSESSION	APPLICATION
AC106827	MB991897 Ball joint remover	MB991113-01, MB990635-01 or General service tool	Knuckle and toe control arm ball joint disconnection <i>NOTE: Steering linkage puller (MB990635 or MB991113) is also available to disconnect knuckle and tie rod end ball joint.</i>
MB990326	MB990326 Preload socket	General service tool	 Toe control arm ball joint turning torque check Stabilizer bar link ball joint breakaway torque check
МВ990800	MB990800 Ball joint dust cover installer	MB990800-01or General service tool	Toe control arm ball joint dust cover installation
A B MB991237	 A: MB991237 Spring compressor body B: MB991239 Arm set 	MIT221369 or general service tool	Coil spring removal and installation <i>NOTE: Spring</i> <i>compressor set</i> <i>(MB991832) is also</i> <i>available to compress</i> <i>coil spring (refer to</i> <i>GROUP 33, Special</i> <i>Tools P.33-5).</i>
A B MB991680	MB991680 Wrench set • A: MB991681 Wrench • B: MB991682 Socket	_	Shock absorber disassembly and assembly

REAR SUSPENSION ON-VEHICLE SERVICE

ON-VEHICLE SERVICE REAR WHEEL ALIGNMENT CHECK AND ADJUSTMENT

M1341011000394

Measure wheel alignment with an alignment equipment on level ground.

The rear suspension and tires should be serviced to the normal condition prior to wheel alignment measurement.

CAMBER

Standard value:

- 0° 50' \pm 30' (Left/right deviation within 30')

NOTE: For vehicles with aluminum wheels, attach the camber/caster/kingpin gauge by using a compensator.



TOE-IN

Standard value: 3 \pm 3 mm (0.12 \pm 0.12 inch)

If camber and/or toe-in is not within the standard value, adjust by the following procedures.

- When adjusting the camber, tighten the lower arm assembly and the trailing arm assembly, not the toe control arm.
- After adjusting the camber, be sure to adjust the toe.
- 1. Carry out camber adjustment by turning the camber adjusting bolt.

NOTE:

- LH: Clockwise viewed from the rear \rightarrow (–) camber
- RH: Clockwise viewed from the rear \rightarrow (+) camber
- If either the camber or toe is adjusted, both should fluctuate. For the relationship between the two, refer to CAM-BER AND TOE REFERENCE TABLE (Refer to P.34-7).



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When adjusting the toe, tighten the toe control arm and the trailing arm assembly, not the lower arm assembly.

- 2. Carry out toe adjustment by turning the toe adjusting bolt. NOTE:
 - LH: Clockwise viewed from the rear \rightarrow Toe-in
 - RH: Clockwise viewed from the rear \rightarrow Toe-out
 - If either the camber or toe is adjusted, both should fluctuate. For the relationship between the two, refer to CAM-BER AND TOE REFERENCE TABLE (Refer to P.34-7).





CAMBER AND TOE REFERENCE TABLE

LOWER ARM PILLOW BALL BUSHING END PLAY CHECK

M1341016900143

- 1. Raise the vehicle.
- 2. Remove the stabilizer bar link assembly from the lower arm assembly.
- 3. Move the lower arm up and down with your hands to check for excessive play in the axial direction of the pillow ball bushing. If there is excessive play, replace the knuckle assembly. (Refer to GROUP 27, Knuckle P.27-8).
- 4. After inspection, install the stabilizer bar link assembly to the lower arm assembly, and tighten the mounting nuts to 40 \pm 5 N·m (30 \pm 3 ft-lb).

TOE CONTROL ARM BALL JOINT END PLAY CHECK

M1341015800080

- 1. Raise the vehicle.
- 2. Move the toe control arm up and down with your hands to check for excessive play in the axial direction of the ball joint. If there is excessive play, replace the toe control arm assembly.

BALL JOINT DUST COVER INSPECTION

Check the ball joint dust cover of the toe control arm assembly and the stabilizer bar link assembly as follows.

- 1. Check dust cover for cracks or damage by pushing it with your finger.
- 2. If a dust cover is cracked or damaged, replace the toe control arm assembly or the stabilizer bar link assembly.

NOTE: Cracks or damage to the dust cover may cause damage to the ball joint.

UPPER ARM ASSEMBLY

REMOVAL AND INSTALLATION

M1341003600216

*: Indicates parts which should be temporarily tightened, and then fully tightened with the vehicle on the ground in an unladen condition.

Post-installation Operation

- Rear Wheel Alignment Check and Adjustment (Refer to
- P.34-6).



- 1. UPPER ARM ASSEMBLY AND KNUCKLE CONNECTION
- 2. ABS EQUIPMENT BOLT <VEHICLES WITH ABS>

AC305776 AB

REMOVAL STEPS (Continued)

- UPPER ARM ASSEMBLY 3.
- 4. UPPER ARM STOPPER

INSPECTION

M1341003700194

- Check the bushings for wear and deterioration.
- Check the upper arm for bending or breakage.
- Check all bolts for condition and straightness.

34-10

REAR SUSPENSION LOWER ARM

LOWER ARM

REMOVAL AND INSTALLATION

M1341006500047

^{*}: Indicates parts which should be temporarily tightened, and then fully tightened with the vehicle on the ground in an unladen condition.

Post-installation Operation

- Rear Wheel Alignment Check and Adjustment (Refer to
- P.34-6).



CONNECTION

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REMOVAL SERVICE POINT

<<a>>> LOWER ARM BOLT REMOVAL

Place mating marks on the crossmember and the plate before removing the lower arm bolt.



INSPECTION

M1341006600055

- Check the bushings for wear and deterioration.
- Check the lower arm for bending or breakage.Check all bolts for condition and straightness.

34-12

REAR SUSPENSION TRAILING ARM

TRAILING ARM

REMOVAL AND INSTALLATION

M1341002200390

*: Indicates parts which should be temporarily tightened, and then fully tightened with the vehicle on the ground in an unladen condition.

Post-installation Operation

- Rear Wheel Alignment Check and Adjustment (Refer to
- P.34-6).



TRAILING ARM BRACKET 3.

NOTE: Bolt A and nut B are interchangeable.

INSPECTION

M1341002300201

- Check the bushings for wear and deterioration.
- Check the trailing arm for bending or breakage.
- Check all bolts for condition and straightness.

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TOE CONTROL ARM

REMOVAL AND INSTALLATION

M1341016600045

*: Indicates parts which should be temporarily tightened, and then fully tightened with the vehicle on the ground in an unladen condition.

Post-installation Operation

- Press the dust cover with your finger to check that there are no cracks or damage in the dust cover.
- Rear Wheel Alignment Check and Adjustment (Refer to P.34-6).





- TRAILING ARM ASSEMBLY AND • KNUCKLE CONNECTION (REFER TO P.34-12). TOE CONTROL ARM ASSEMBLY 1.
- <<A>>>
 - AND KNUCKLE CONNECTION
- <>> 2. ASSIST LINK BOLT

REMOVAL STEPS (Continued)

AC305779AB

7 ± 0.5 g

 $(0.247 \pm 0.018 \text{ oz})$

4

AC205712

- 3. ASSIST LINK PLATE
- TOE CONTROL ARM ASSEMBLY 4.

Required Special Tool:

MB991897: Ball Joint Remover

REMOVAL SERVICE POINTS

<<A>> TOE CONTROL ARM ASSEMBLY AND KNUCKLE DISCONNECTION

- Do not remove the nut from ball joint. Loosen it and use special tool MB991897 to avoid possible damage to ball joint threads.
- Hang special tool MB991897 with a cord to prevent it from falling.
- 1. Install special tool MB991897 as shown in the figure.





2. Turn the bolt and knob as necessary to make the jaws of the special tool MB991897 parallel, tighten the bolt by hand and confirm that the jaws are still parallel.

NOTE: When adjusting the jaws in parallel, make sure the knob is in the position shown in the figure.

3. Tighten the bolt with a wrench to disconnect the toe control arm assembly and the knuckle.



<> ASSIST LINK BOLT REMOVAL

Place mating marks on the crossmember and the plate before removing the assist link bolt.

INSPECTION

M1341016800049

- Check the bushings for wear and deterioration.
- Check the toe control arm for bending or breakage.
- Check all bolts for condition and straightness.

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TOE CONTROL ARM BALL JOINT TURNING TORQUE CHECK

Required Special Tool:

- MB990326: Preload Socket
- 1. After shaking the ball joint stud several times, in order to make the ball joint turn smoothly, install the nut to the stud and use special tool MB990326 to measure the turning torque of the ball joint.

Standard value: 1.0 – 2.6 N·m (8.9 – 23 in-lb)

- 2. If the measured value exceeds the standard value, replace the toe control arm assembly.
- 3. If the measured value is lower than the standard value, check that the ball joint turns smoothly without excessive play. If so, it is possible to re-use that ball joint.

TOE CONTROL ARM BALL JOINT DUST COVER CHECK

- 1. Check the toe control arm ball joint dust cover for cracks or damage by pushing it with your finger.
- 2. If the dust cover is cracked or damaged, replace the toe control arm assembly.

NOTE: Cracks or damage of the dust cover may cause damage to the ball joint. When it is damaged during service work, replace the dust cover.

TOE CONTROL ARM BALL JOINT DUST COVER REPLACEMENT

Required Special Tool:

• MB990800: Ball Joint Remover and Installer Only when the dust cover is damaged accidentally during service work, replace the dust cover as follows:

- 1. Remove the dust cover.
- Fill the new dust cover with multipurpose grease and lubricate the lip [Amount of grease in the dust cover: approximately 7g (0.247 ounce)].
- 3. Using special tool MB990800, punch the dust cover until it contacts the snap ring.
- 4. Press the dust cover with your finger to check that there are no cracks or damage in the dust cover.



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SHOCK ABSORBER ASSEMBLY

REMOVAL AND INSTALLATION

M1341002500283

^{*}: Indicates parts which should be temporarily tightened, and then fully tightened with the vehicle on the ground in the unladen condition.

Pre-removal and Post-installation Operation

- Trunk Room Trim (front side) Removal and Installation
- (Refer to GROUP 52A, Trims P.52A-10).



REMOVAL STEPS

- 1. COIL SPRING NUT
- 2. COIL SPRING BOLT
- 3. COIL SPRING WASHER
- 4. COIL SPRING WASHER

AC305780 AB

- **REMOVAL STEPS (Continued)**5. SHOCK ABSORBER ASSEMBLY
- AND KNUCKLE CONNECTION
- 6. SHOCK ABSORBER ASSEMBLY

INSPECTION

M1341002600172

- Check the rubber parts for cracks and wear.
- Check the shock absorber for malfunctions, oil leakage, or abnormal noise.

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DISASSEMBLY AND ASSEMBLY

M1341005300266



DISASSEMBLY STEPS

- - 2. COIL SPRING WASHER
 - 3. COIL SPRING BUSHING
 - 4. SHOCK ABSORBER GASKET
 - >>B<< 5. SHOCK ABSORBER INSULATOR
 - 6. SPRING UPPER PAD
 - 7. COIL SPRING BUSHING
 - 8. COIL SPRING COLLAR
 - >>A<< 9. COIL SPRING
 - 10. SHOCK ABSORBER CUP

AC305784 AB

- DISASSEMBLY STEPS (Continued)
- 11. SHOCK ABSORBER COVER
- 12. SHOCK ABSORBER DAMPER
- 13. SHOCK ABSORBER

Required Special Tools:

- MB991237: Spring Compressor Body
- MB991239: Arm Set
- MB991680: Wrench Set
 - MB991681: Wrench
 - MB991682: Socket

DISASSEMBLY SERVICE POINT

<<A>> COIL SPRING NUT (SELF-LOCKING NUT) REMOVAL

- To hold the coil spring securely, install special tools MB991237 and MB991239 evenly, and so that the space between both arms of the special tool will be maximum within the installation range.
- Do not use an impact wrench to tighten the bolt of special tool MB991237. The usage of impact wrench will break the special tool.
- 1. Use special tools MB991237 and MB991239 to compress the coil spring.



A WARNING

Do not use an impact wrench to remove the coil spring nut (self-locking nut).

- Vibration of the impact wrench will cause special tools MB991237 and MB991239 to slip and cause personal injury.
- Vibration of the impact wrench will cause the valve inside the shock absorber to drop out.
- 2. For 2.4L engine models, use special tool MB991682 to secure the piston rod, and then remove the coil spring nut (self-locking nut) using special tool MB991681.

Sa.8L ENGINE> HEXAGON WRENCH PIPE MB991681 AC306398 AB

*I*B991682

MB991681

AC306397 AB

<2.4L ENGINE>

For 3.8L engine models, use a hexagon wrench and a pipe to secure the piston rod, and then remove the coil spring nut (self-locking nut) using special tool MB991681.

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ASSEMBLY SERVICE POINTS

>>A<< COIL SPRING INSTALLATION

Do not use an impact wrench to tighten the bolt of special tool MB991237. It will break the special tool.

- 1. Use special tools MB991237 and MB991239 to compress the coil spring, and install it to the spring seat of the shock absorber.
- 2. Align the end of the coil spring with the stepped section of the spring seat of the shock absorber.

>>B<< SHOCK ABSORBER INSULATOR INSTALLATION

Install the shock absorber insulator as follows.

- 1. Position the coil spring lower end as shown.
- 2. Position a center line (A) of the shock absorber lower bushing inner pipe as shown from the arrow (B) on the shock absorber insulator.







HEXAGON WRENCH

`PIPE MB991681

AC306398 AB

REAR SUSPENSION SHOCK ABSORBER ASSEMBLY

>>C<< COIL SPRING NUT (SELF-LOCKING NUT) INSTALLATION

1. Temporarily tighten the coil spring nut (self-locking nut).

Do not use an impact wrench to tighten the bolt of special tool MB991237. It will break the special tool. Vibration of the impact wrench will cause the valve inside the shock absorber to drop out.

- 2. Remove special tools MB991237 and MB991239.
- 3. For 2.4L engine models, using special tools MB991681 and MB991682, tighten the coil spring nut (self-locking nut) to 23 \pm 2 N·m (17 \pm 1 ft-lb).

For 3.8L engine models, using special tool MB991681, a hexagon wrench and a pipe, tighten the coil spring nut (self-locking nut) to 23 ± 2 N·m (17 ± 1 ft-lb).

SHOCK ABSORBER DISPOSAL

A WARNING

Wear goggles when drilling to protect your eyes from flying metal debris.

The gas must be discharged from the shock absorber before discarding it. Place the shock absorber horizontally with its piston rod extended. Then drill a hole of approximately 3 mm (0.1 inch) in diameter at the location shown in the illustration and discharge the gas.



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INSPECTION

34-21

- M1341002800024
- Check the rubber parts for damage or deterioration.
- · Check the coil spring for deformation, deterioration or damage.
- Check the shock absorber for deformation.

STABILIZER BAR

REMOVAL AND INSTALLATION

M1341003000270



>>**A**<< 2. STABILIZER BAR BRACKET

REAR SUSPENSION STABILIZER BAR

INSTALLATION SERVICE POINT

>>A<< STABILIZER BAR/STABILIZER BUSH-ING/STABILIZER BAR BRACKET INSTALLATION

- 1. Position the stabilizer bar identification paint to the left side.
- 2. Adjust the identification paint position as shown in the figure, and tighten the stabilizer bolt.



INSPECTION

M1341001400313

- Check the stabilizer bushings for wear and deterioration.
- Check the stabilizer bar for deterioration or damage.
- Check all bolts for condition and straightness.

STABILIZER BAR LINK BALL JOINT BREAKAWAY TORQUE CHECK

Required Special Tool:

- MB990326: Preload Socket
- 1. After shaking the ball joint stud several times, install the nut to the stud and use special tool MB990326 to measure the breakaway torque of the ball joint.

Standard value: 3.4 - 9.0 N·m (30 - 80 in-lb)

- 2. When the measured value exceeds the standard value, replace the stabilizer bar link assembly.
- 3. When the measured value is lower than the standard value, check that the ball joint turns smoothly without excessive play. If so, it is possible to re-use that ball joint.

STABILIZER BAR LINK BALL JOINT DUST COVER CHECK

- 1. Check the dust cover for cracks or damage by pushing it with your finger.
- 2. If the dust cover is cracked or damaged, replace the stabilizer bar link assembly.

NOTE: Cracks or damage of the dust cover may cause damage to the ball joint.



REAR SUSPENSION CROSSMEMBER

REMOVAL AND INSTALLATION

M1341006800297

For vehicles with ABS, be careful when handling the pole piece at the tip of the wheel speed sensor so as not to damage it by striking against other parts.

 Pre-removal Operation Main Muffler, Center Exhaust Pipe Removal (Refer to GROUP 15, Exhaust pipe and Main Muffler P. 15-20). Rear Splash Shield Removal (Refer to GROUP 51, Rear Bumper Assembly P.51-4). 	 Post-installation Operation Rear Splash Shield Installation (Refer to GROUP 51, Rear Bumper Assembly P.51-4). Main Muffler, Center Exhaust Pipe Installation (Refer to GROUP 15, Exhaust pipe and Main Muffler P.15-20). Rear Wheel Alignment Check and Adjustment (Refer to P.34-6). 	
$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$	$\begin{array}{c} & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ &$	
61 ± 9 ft-lb	AC305782 A	
 REMOVAL STEPS REAR WHEEL SPEED SENSOR STABILIZER BAR LINK ASSEMBLY (REFER TO P.34-21). LOWER ARM ASSEMBLY (REFER TO P.34-10). TOE CONTROL ARM ASSEMBLY (REFER TO P.34-13). UPPER ARM ASSEMBLY (REFER TO P.34-9). STABILIZER BAR (REFER TO P.34-21). 	REMOVAL STEPS (Continued>>C<1.CROSSMEMBER NUT>>B<2.CROSSMEMBER STAY>>B<3.CROSSMEMBER NUT< <d>>>B<4.CROSSMEMBER BRACKET>>A5.CROSSMEMBER STAY6.CROSSMEMBER PLATE7.REAR SUSPENSION CROSSMEMBER8.CROSSMEMBER UPPER STOPPER</d>	

REMOVAL SERVICE POINTS

<<A>> REAR WHEEL SPEED SENSOR REMOVAL <VEHICLES WITH ABS>

For vehicles with ABS, be careful when handling the pole piece at the tip of the wheel speed sensor so as not to damage it by striking against other parts.

The rear wheel speed sensor can be damaged during service work. Unclamp the rear wheel speed sensor cable as shown, and use a cord to tie it out of the way.



TRAILING ARM ASSEMBLY AC305742 AB

<> TOE CONTROL ARM ASSEMBLY REMOVAL

Disconnect the toe control arm only from its rear suspension crossmember side, and use a cord to tie it to the trailing arm assembly as shown.



<<C>> CROSSMEMBER STAY REMOVAL

The crossmember mounting bolts need not be unscrewed when the crossmember stay is replaced. However, the bolts may be loosened while the crossmember stay is removed. It is recommended that you should retighten the bolts to 100 ± 10 N·m (74 ± 7 ft-lb).

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AC306482AB

<<D>> CROSSMEMBER BRACKET REMOVAL

The crossmember mounting bolts need not be unscrewed when the crossmember bracket is replaced. However, the bolts may be loosened while the crossmember bracket is removed. It is recommended that you retighten the bolts to 100 \pm 10 N \cdot m $(74 \pm 7 \text{ ft-lb}).$

INSTALLATION SERVICE POINTS

>>A<< CROSSMEMBER STAY INSTALLATION

FRONT OF VEHICLE CROSSMEMBER STAY AC209171AB Install the crossmember stay with its arrow facing the front of vehicle.

>>B<< CROSSMEMBER **BRACKET/CROSSMEMBER NUT INSTALLATION**

Ensure that the crossmember mounting bolts have been tightened to 100 ± 10 N·m (74 \pm 7 ft-lb), and then install the crossmember bracket with the crossmember nut.



REAR SUSPENSION REAR SUSPENSION CROSSMEMBER

>>C<< CROSSMEMBER STAY/CROSSMEMBER NUT INSTALLATION



Ensure that the crossmember mounting bolts have been tightened to 100 ± 10 N·m (74 \pm 7 ft-lb), and then install the crossmember stay with the crossmember nut.

INSPECTION

M1341006900089

- Check the crossmember for cracks or deformation.
- Check all bolts for condition and straightness.

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

M1341012700330

SPECIFICATION		
78 ± 7 N·m (57 ± 5 ft-lb)		
113 ± 12 N·m (83 ± 9 ft-lb)		
40 ± 5 N·m (30 ± 3 ft-lb)		
•		
83 ± 12 N·m (61 ± 9 ft-lb)		
45 ± 5 N·m (34 ± 3 ft-lb)		
83 ± 12 N·m (61 ± 9 ft-lb)		
108 ± 17 N·m (79 ± 13 ft-lb)		
Shock absorber assembly		
45 ± 5 N·m (34 ± 3 ft-lb)		
100 ± 10 N·m (74 ± 7 ft-lb)		
23 ± 2 N·m (17 ± 1 ft-lb)		
40 ± 5 N·m (30 ± 3 ft-lb)		
45 ± 5 N·m (34 ± 3 ft-lb)		
78 ± 7 N·m (57 ± 5 ft-lb)		
66 ± 6 N·m (49 ± 4 ft-lb)		
•		
113 \pm 12 N·m (83 \pm 9 ft-lb)		
113 ± 12 N·m (83 ± 9 ft-lb)		
100 ± 10 N·m (74 ± 7 ft-lb)		
Upper arm assembly		
113 ± 12 N·m (83 ± 9 ft-lb)		
113 ± 12 N⋅m (83 ± 9 ft-lb)		

TSB	Revision	
TSB	Revision	

REAR SUSPENSION SPECIFICATIONS

GENERAL SPECIFICATIONS

M1341000200286

COIL SPRING

ITEM	2.4L ENGINE	3.8L ENGINE
Wire diameter mm (in)	11.8 (0.46)	12.0 (0.47)
Average diameter mm (in)	85.8 - 112.2 (3.38 - 4.42)	86.0 - 112.0 (3.39 - 4.40)
Free length mm (in)	355.5 (14.00)	352.0 (13.86)

SERVICE SPECIFICATIONS

M1341000300421

ITEM	STANDARD VALUE
Camber	$-0^{\circ}50' \pm 30'$ (Difference between right and left within 30')
Toe-in mm (in)	3 ± 3 (0.12 ± 0.12)
Toe control arm ball joint turning torque N·m (in-lb)	1.0 – 2.6 (8.9 – 23)
Stabilizer bar link ball joint breakaway torque N·m (in-lb)	3.4 - 9.0 (30 - 80)

LUBRICANT

M1341000400183

ITEM	SPECIFIED LUBRICANT	QUANTITY
Toe control arm ball joint (lip and inside of dust cover)	Multipurpose grease SAE J310, NLGI No.2 or equivalent	7 ± 0.5 g (0.247 ± 0.018 oz)