REAR SUSPENSION

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M34AA--

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SPECIFICATIONS <FWD>

GENERAL SPECIFICATIONS

M34CA-A

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	SOHC		
Items	High line	Plemium line	DOHC
Suspension system	3-lin	k, torsion axle with co	il spring type
Coil spring <vehicles active="" ecs="" without=""> Wire dia. x O.D. x free length mm (in.) [Coil spring identification color]</vehicles>	< 1989 models> 10.5 x 105.5 x 342.5 (.41 x 4.15 x 13.48) [Blue x 1] <from 1990<br="">models> 10.5 x 105.5 x 349.5 (.41 x 4.15 x 13.76) [Blue x 2]</from>	< 1989 models> 10.5 x 105.5 x 349.5 (.41 x 4.15 x 13.76) [Blue x 21 <from 1990<br="">models> 10.8 x 105.8 x 356.5 (.43 x 4.17 x 14.04) [White x1]</from>	<from 1990.5="" models=""> 10.8 x 105.8 x 356.5 (43 x 4.17 x 14.04) [White x1]</from>
Coil spring <vehicles active="" ecs="" with=""> Wire dia. x upper end O.D. x lower end O.D. x free length mm (in.) [Coil spring identification color]</vehicles>		_	<pre><up 1990="" models="" to=""> L.H. side 9.5 x 119.5 x 119.5 x 428 (.37 x 4.70 x 4.70 x 16.85) [Light green x1] R.H. side 9.5 x 119.5 x 119.5 x 412 (.51x 4.70 x 4.70 x 16.22) [Light green x2] <from 1991="" models=""> L.H. side 10.1x 122.1 x 381.5 (.40 x 4.81 x 15.02) [Light green x2] R.H. side 10.1x 122.1 x 370 (.40 x 4.81 x 14.57) [Light green x1]</from></up></pre>
Spring constant N/mm (lbs./in.) <vehicles active="" ecs="" without=""></vehicles>	21 (117.6)	21 (117.6)	21 (117.6)
Spring constant N / m m (lbs./in. <vehicles active="" ecs="" with=""></vehicles>	}	_	9.4 (52.64) <up 1990="" models="" to=""> 13.5 (75.60) <from 1991="" models=""></from></up>
Shock absorber Type	Hydraulic, cylindrical, double-acting type		Hydraulic, cylindrical double- acting type

REAR SUSPENSION <**FWD**> – Specifications

		SOHC		20110	
Items		High line	Plemium line	DOHC	
<vehicles active<="" td="" without=""><td>ECS></td><td></td><td></td><td><from 1990.<="" td=""><td>5 models></td></from></td></vehicles>	ECS>			<from 1990.<="" td=""><td>5 models></td></from>	5 models>
Max. length	mm (in.)	505 (19.9)		505 (19.9)	
Min. length	mm (in.)	315 (12.4)		315 (12.4)	
Stroke	mm (in.)	190 (7.5)		190 (7.5)	
Damping force [at 0.3 m/sec. (.9 ft./sec.)]				
Expansion	N (lbs.) 7	5 0 (165)		750 (165)	
Contraction	N (lbs.) 3	50 (77)		350 (77)	
<vehicles active="" e<="" td="" with=""><td>CS></td><td></td><td></td><td><up -<br="" 1990="" to="">models></up></td><td><from 1991<br="">models></from></td></vehicles>	CS>			<up -<br="" 1990="" to="">models></up>	<from 1991<br="">models></from>
Max. length	mm (in.)	_		491 (19.33)	491 (19.33)
Min. length	mm (in.)	-		341 (1 3.43)	341 (13.43)
Stroke	mm (in.)	-		150 (5.91)	150 (5.91)
Damping force [at 0.3 m (.9 ft./sec.)]	/sec.				
Expansion	N (lbs.)				
HARD		-		1,450 (320)	1,700 (375)
MEDIUM		-		850 (187)	850 (187)
SOFT				270 (60)	270 (60)
Contraction	N (lbs.)				
HARD				500 (110)	540 (119)
MEDIUM				350 (77)	350 (77)
SOFT		_		200 (44)	200 (44)
Nheel bearing					
Type		Tapered roller bearing		Unit ball beari	ng
0.D. x I.D.	mm (in.)		20)		
Outer		39.9 X 17.5 (1.57 X.0			
Inner		50.3 x 27.0 (1.98 x 1	.06)		

SERVICE SPECIFICATIONS

M34CB-A

Items	SOHC	DOHC
Standard value Toe-in (Left-right difference) mm (in. Camber) 0±3(0±.118) -45' ± 30'	0 4 3 (0±.118) -45' ± 30'

NOTE

Toe-in and camber cannot be adjusted.

34-4 REAR SUSPENSION <FWD> – Specifications/Special Tools

FORQUE SPECIFICATIONS

Items	Nm	ft.lbs.
Dust shield	9-14	7–10
Flange nut	200-260	144-188
Wheel bearing nut	$20 \rightarrow 0 \rightarrow 10$	$14 \rightarrow 0 \rightarrow 7$
Shock absorber upper mounting nut	40-50	29-36
Shock absorber lower mounting nut	80-100	58-72
Speed sensor <vehicles abs="" with=""></vehicles>	9-14	7—10
Lateral rod mounting nut (body side)	80-100	58-72
Lateral rod mounting bolt (axle beam side)	100-120	72-87
Trailing arm mounting bolt	100-120	72-87
Piston rod tightening nut	20–25	14-18
Brake hose and tube bracket mounting bolt	17–26 [.]	12-19
Rear drum brake assembly (backing plate) to axle beam	50-60	36-43

SPECIAL TOOLS

M34DA-A

Tool	Number	Name	Use
	MB990987-01	Spring compressor	Removal and installation of the coil spring
	MB991159	Bushing remover and installer	Driving-out and press-fitting of the trailing arm bushing
	MB990947-01	Lower arm bushing arbor	Driving-out and press-fitting of the lateral rod bushing
	MB990945	Lower arm bushing ring	
	MB990847-01	Bushing remover and installer base	
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M34CC-A

TROUBLESHOOTING

M34EA-A

34-5

Symptom	Probable cause	Remedy
Squeaks or other	Loose rear suspension installation bolts and nuts	Retighten
abnormal noise	Malfunction of shock absorber Worn bushings	Replace
Poor ride	Excessive tire inflation pressure	Adjust the pressure
	Malfunction of shock absorber Weak or broken springs	Replace
Body tilting	Weak or deteriorated bushings Weak or broken springs	Replace

SERVICE ADJUSTMENT PROCEDURES

REAR WHEEL ALIGNMENT INSPECTION

The rear suspension assembly must be free of worn, loosen or damaged parts prior to measurement of rear wheel alignment.

Standard value:

Camber

Toe-in (Left-right difference)

0±3 mm (0±.118 in.) -45'±30'

NOTE

The rear wheel alignment is set at the factory and cannot be adjusted.

If toe-in or camber is not within the standard value, replace bent or damaged parts.







SERVICE POINTS OF REMOVAL

M34GBAJ

11. REMOVAL OF LATERAL ROD MOUNTING BOLT

- (1) Remove the lateral rod mounting bolt.
- (2) Secure and hold the lateral rod to the axle beam with wire, etc.

13. REMOVAL OF SHOCK ABSORBER UPPER MOUNTING NUT/ 14. TRAILING ARM MOUNTING BOLT/ 15. REAR SUSPENSION ASSEMBLY

(1) Jack up the torsion axle and arm assembly in order to raise it slightly.

Caution

- 1. Always insert a wooden block between the jack receptacle and the axle beam and place the jack at the centre of the axle beam.
- 2. Make sure that the jack does not contact the lateral rod.
- (2) Remove the shock absorber mounting nut and trailing arm mounting bolt.
- (3) Lower the jack slowly, and then remove the rear suspension assembly.

INSPECTION

M34GCAL

- Check the trailing arm and axle beam for deformation or damage.
- Check the torsion bar for damage.
- Check the lateral rod for damage or deformation.
- Check the bushings for cracking, deterioration, or unusual wear.



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BUSHING REPLACEMENT TRAILING ARM BUSHING

M34GTAE

(1) Drive out the trailing arm bushing using the special tool. **Caution**

The bearing within the special tool should be installed, as shown in the figure, at the race **surface** nut side of the bearing.

- (2) Press the bushing with the special tool into the trailing arm (from the chamfered part of the trailing arm) so that the bushing hole is at the position indicated in the figure.
- (3) Be careful that the bushing hole is at the position indicated in the figure and that the difference in bushing projection distances does not exceed the following value.

 $L_1 - L_2 = 0 \pm 1.0 \text{ mm} (0 \pm .04 \text{ in.})$

LATERAL ROD BUSHING (BODY SIDE)

- (1) Drive out the lateral rod bushing using the special tool.
- (2) Press in the bushing using the special tool so that the amount of projection is equal at the left and right. NOTE

The replacement of the lateral rod bushing at the axle beam side is made by the same procedures described in steps (1) and (2) above.



SERVICE POINTS OF INSTALLATION M34GDAS 4. INSTALLATION OF WHEEL BEARING NUT

- (1) After tightening the wheel bearing nut to 20 Nm (14 ft.lbs.), turn the hub a few times to seat the bearing.
- (2) In order to seat the bearing properly, turn the hub (brake drum) 180" or more and then return it 360" or more; repeat this procedure again three or more times.
- (3) Return the wheel bearing nut to 0 Nm (0 ft.|bs.).
- (4) After tightening the wheel bearing nut at a torque of 10 Nm (7 ft.lbs.), rotate the hub again in the same way as described in step (2) so as to seat the bearing.
- (5) Then once again tighten the wheel bearing nut to 10 Nm (7 ft.lbs.).
- (6) Install the lock cap and cotter pin.
- (7) If the position of the cotter pin is not matched with the holes of the lock cap, reposition the lock cap so that the holes align. If this can not be accomplished, back off the nut by not more than 15".

Caution

Check to be sure that the lock nut cannot be loosened manually.

(8) After setting the split pin in place, seat the bearing in the same manner as in step (2).



SHOCK ABSORBER ASSEMBLY

M34NA-A

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

Removal and Installation of the Trunk Side Trim (Refer to GROUP 52–Trims.)



Removal steps

1.	Сар
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- Shock absorber upper mounting nuts
 Shock absorber lower mounting bolt
- Shock absorber

NOTE

*: Indicates part which should be temporarily tightened, and then fully tightened with the vehicle in the unladen condition.

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SERVICE POINTS OF REMOVAL

2. REMOVAL OF SHOCK ABSORBER UPPER MOUNTING NUT/B. SHOCK ABSORBER LOWER MOUNTING **BOLT/4. SHOCK ABSORBER**

(1) Jack up the torsion axle and arm assembly in order to raise it slightly.

Caution

- 1. Always insert a wooden block between the jack receptacle and the axle beam and place the jack at the center of the axle beam.
- 2. Be sure that the jack does not contact the lateral rod.
- (2) Remove the shock absorber's upper mounting nut and lower mounting bolt, and then remove the shock absorber.

DISASSEMBLY AND REASSEMBLY

M34GM-A





SERVICE POINTS OF REASSEMBLY 11. INSTALLATION OF COIL SPRING

M34GPAB

- (1) Use the special tool (MB990987-01) to compress the coil spring and insert it in the shock absorber.
- (2) Align the edge of the coil spring to the position of the shock absorber spring seat as shown.

9. INSTALLATION OF DUST COVER/8. CUP ASSEMBLY

As shown in the illustration, fit the dust cover to the cup assembly.

4. INSTALLATION OF BRACKET ASSEMBLY/I. PISTON ROD TIGHTENING NUT

- (1) With the position of the bracket assembly as shown in the figure, tighten the tightening nut to the specified torque.
- (2) Install the coil spring so that the lower edge fits into the spring seat groove and the upper edge fits into the spring pad groove, then remove the special tool (MB990987-01).



INSPECTION

M340CAAa

- Check the lateral rod for damage or deformation.
- Check the bushings for cracking, deterioration, or unusual wear.

NOTE

For information concerning the replacement of the lateral rod bushing, refer to P.34-8.



TORSION AXLE AND ARM ASSEMBLY

M34PA--



34-16 REAR SUSPENSION <FWD> - Torsion Axle and Arm Assembly



- 2. Be sure that the jack does not contact the lateral rod.
- (2) Remove the shock absorber's mounting bolts and the trailing arm mounting bolt.
- (3) Lower the jack slowly, and then remove the torsion axle and arm assembly.

INSPECTION

M34PCAAa

- Check the trailing arm and axle beam for deformation or damage.
- Check the torsion bar for damage.
- Check the bushings for cracking, deterioration, or unusual wear.

NOTE

For information concerning the replacement of the trailing arm bushing, refer to P.34-8.



SERVICE POINTS OF INSTALLATION M34PDAH 11. INSTALLATION OF LATERAL ROD MOUNTING BOLT

Install the lateral rod mounting bolt from the direction shown in the illustration.

4. INSTALLATION OF WHEEL BEARING NUT

- (1) After tightening the wheel bearing nut to 20 Nm (14 ft.lbs.), turn the hub a few times to seat the bearing.
- (2) In order to seat the bearing properly, turn the hub (brake drum) 180" or more and then return it 360" or more; repeat this procedure again three or more times.
- (3) Return the wheel bearing nut to 0 Nm (0 ft.lbs.).
- (4) After tightening the wheel bearing nut at a torque of 10 Nm (7 ft.lbs.), rotate the hub again in the same way as described in step (2) so as to seat the bearing.
- (5) Then once again tighten the wheel bearing nut to 10 Nm (7 ft.lbs.).
- (6) Install the lock cap and cotter pin.
- (7) If the position of the cotter pin is not matched with the holes of the lock cap, reposition the lock cap so that the holes align. If this can not be accomplished, back off the nut by not more than 15".

Caution

Check to be sure that the lock nut cannot be loosened manually.

(8) After setting the cotter pin in place, seat the bearing in the same manner as in step (2).



SPECIFICATIONS < AWD-UP TO 1992 MODELS>

GENERAL SPECIFICATIONS

Items		Specifications
Suspension system		Double wishbone suspension type
Coil spring		
Wire dia. x O.D. x free length	mm (in.)	11.0 x 106.0 x 389.5 (.43 x 4.17 x 15.3)
Coil spring identification colour		Pink x1
Spring constant	N/mm(lbs./in.) 2	0.0 (112.0)
Shock absorber		
Туре		Hydraulic, cylindrical, double-acting type
Max. length	mm (in.) (583 (23.0)
Min. length	mm (in.)	391 (15.4)
Stroke	mm (in.)	192 (7.6)
Damping force [at 0.3m/sec. (0.9 ft./sec.)]		
Expansion	N(lbs.) 1	,200 (265)
Contraction	N(lbs.) 4	50 (99)

SERVICE SPECIFICATIONS

Items		Specifications
Standard value		
Toe-in	mm (in.)	3±3 (.12±.12)
Camber		-1°00′ ± 30′
Lower and upper arm ball joint starting torque	Nm (in.lbs.)	2-9 (17-78)
Protruding length of stabilizer link installation nut	mm (in.)	9–11 (.354–.433)
Stabilizer link ball joint starting torque	Nm (in.lbs.)	1.7-3.2 (15–28)

M34CA-B

M34CB-B

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TORQUE SPECIFICATIONS

M34CC-B

Items	Nm	ft.lbs.
Rear suspension assembly		
Center exhaust pipe to main muffler installation bolt	30-40	22-29
Hook installation bolt	10-15	7-11
Hanger installation bolt	10-15	7-11
Center exhaust pipe to front exhaust pipe installation nut	30-40	22-29
Rear shock absorber installation nut	40-50	29-36
Differential carrier to differential support member	80-100	58-72
Differential support member to body	110-130	80-94
Brake tube bracket to rear shock absorber	17-26	12-19
Differential carrier to propeller shaft	30-35	22-25
Crossmember bracket to body	7085	51-61
Crossmember bracket to crossmember	110-130	80-94
Rear brake assembly installation bolt	50-60	36-43
Upper and lower arm		
Upper arm to crossmember	140-160	101-116
Upper arm to knuckle	60-72	43-52
Lower arm to crossmember	90-110	65-80
Lower arm to knuckle	60-72	43-52
Trailing arm		
Companion flange to rear axle shaft	160-220	116-159
Companion flange to drive shaft	55-65	40-47
Trailing arm to crossmember	140-160	101-116
Upper arm to knuckle	60-72	43-52
Lower arm to knuckle	60-72	43-52
Rear shock absorber (lower)	90–110	6580
Rear brake assembly installation bolt	50-60	36-43
Rear speed sensor	9-14	7–10
Shock absorber assembly		
Shock absorber installation nut	40-50	29-36
Shock absorber installation bolt	90–110	65–80
Brake tube bracket to rear shock absorber	17-26	12-19
Piston rod tightening nut	20–25	14-18
Stabilizer bar		
Differential support member to body	110-130	80–94
Crossmember bracket to crossmember	110–130	80–94
Crossmember bracket to body	70–85	51-61
Stabilizer link to stabilizer bar	35-45	25-33

SPECIAL TOOLS

M34DA-B

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001	Number	Name	Use
SPOL	MB991113-01	Steering linkage puller	Disconnection of the ball joint
	OPTIONAL: AVAIL	ABLE FROM O.T.C.	
0	MB990767-01	End yoke holder	Removal of the rear axle shaft
Che Che			
	GENERAL SERVICE TOOL	Axle puller	
- Martin - alt	MB990211-01	Sliding hammer with adapter	
\bigcirc	MB990847-01	Base	Removal and press-fitting of the lower arm bushing
	MB991245	Lower arm bushing ring	
	MB991246	Lower arm bushing arbor	
	MB990849	Upper arm bushing arbor	Removal and press-fitting of the trailing arm bushing
0	MB990646	Control arm bushing installer and remover	

34-22 REAR SUSPENSION <AWD> - Special Tools/Troubleshooting

Tool	Number	Name	Use
	MB990800-01	Ball joint remover and installer	Installation of the ball joint dust cover
	OPTIONAL: AVAIL	ABLE FROM O.T.C.	
	MB991254	Rod remover and installer	Replacement of trailing arm connecting rod

TROUBLESHOOTING

M34EA-B

Symptom	Probable cause	Remedy
Squeaks or other abnormal noise	Loose rear suspension installation bolts and nuts	Retighten
	Malfunction of shock absorber Worn bushings	Replace
	Upper arms and/or lower arms deformed or damaged	
	Trailing arms deformed or damaged	
	Crossmember deformed or damaged	
Poor ride	Excessive tire inflation pressure	Adjust the pressure
	Malfunction of shock absorber Weak or broken springs	Replace
	Stabilizer bar and/or stabilizer link deformed or damaged	
3ody tilting	Weak or deteriorated bushings Weak or broken springs	Replace
	Upper arms and/or lower arms deformed or damaged	
	Trailing arms deformed or damaged	
	Crossmember deformed or damaged	

SERVICE ADJUSTMENT. PROCEDURES

REAR WHEEL ALIGNMENT INSPECTION M34FDAB

The rear suspension assembly must be free of worn, loosen or damaged parts prior to measurement of wheel alignment.



TOE-IN

(1) Measure the toe-in with a toe-in gauge. Standard value: 3±3 mm (.12±.12 in.)

(2) If the toe-in is not within the standard value, adjust it by moving the mounting bolts located on the crossmember side of the trailing arm.

NOTE

Make the adjustment by moving the left and the right bolts equally.

Movement of one division on the scale will cause toe-in variation of about 2 mm (.08 in.).

CAMBER

- (1) Measure the camber with a camber/caster/kingpin gauge. Standard value: $-1^{\circ}00' \pm 30'$
- (2) If the camber is not within the standard value, adjust it by moving the mounting bolt located on the crossmember side of the upper arm.

NOTE

Movement of one division on the scale will cause camber variation of about 15'.

Caution

- 1. As toe-in will vary 0.9 mm (.035 in.) for every camber scale adjustment, adjust the toe after adjusting camber.
- 2. The difference between the left and the right camber shall be less than 15'.





- 9. Self locking nut
 - 10. Differential support member 11. Crossmember bracket
- 12. Parking brake cable and rear speed sensor installation bolt 13. Cable band
 - 14. Rear speed sensor connector
- O-ring
 Rear suspension assembly

REAR SUSPENSION < AWD> - Rear Suspension Assembly



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34-26

SERVICE POINTS OF REMOVAL

4. REMOVAL OF CALIPER ASSEMBLY

(1) Remove the lock pin, rotate the caliper assembly upward, then remove the caliper assembly and secure it with wire, etc.

Caution

The lock pin has a special grease applied to it, so be sure not to wipe it off, and ensure that the lock pin stays clean.

M34GBAP

(2) After removing the caliper assembly, cover the guide pin with a cloth, etc.

8. REMOVAL OF PROPELLER SHAFT' INSTALLATION BOLT AND NUT

Place mating marks on the differential carrier companion flange and the propeller shaft flange yoke.

NOTE

The mating marks should be used as a reference for re-installation.

9. REMOVAL OF SELF LOCKING NUT

- (1) Before removing the self locking nuts, support the differential case with a transaxle jack.
- (2) Remove the self locking nuts.

12. REMOVAL OF PARKING BRAKE CABLE AND REAR SPEED SENSOR INSTALLATION BOLT

- (1) Lower the transaxle jack slightly.
- (2) Remove the parking brake cable and the rear speed sensor installation bolts.

NOTE

The task may be made easier by increasing the gap between the body and the crossmember.

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16. REMOVAL OF REAR SUSPENSION ASSEMBLY

- (1) Supporting the rear suspension assembly with a transmission jack, move it toward the rear (in the direction of the fuel tank).
- (2) Gradually lower the transmission jack, avoiding contact with the stabilizer bar and the propeller shaft.

Caution

- 1. Ensure that the propeller shaft does not bend greatly.
- Ensure that the löbro joint does not receive any shock.

NOTE

The lowering of the rear suspension assembly from the transmission jack requires three individuals due to the amount of weight being handled (one on the differential, and one on either side of the lower arm).

(3) In order to protect the rear suspension assembly dust shield, support the lower arm ball joint with a wooden block.

INSPECTION

M34GCAM

• Check crossmember for cracks or other damage.

SERVICE POINTS OF INSTALLATION M34GDAR 8. INSTALLATION OF PROPELLER SHAFT INSTALLATION BOLT AND NUT

Install the propeller shaft to the differential carrier, ensuring that the mating marks are aligned.



3. INSTALLATION OF PARKING BRAKE CABLE END

NOTE

Connecting a parking brake cable end to parking brake lever and prying up the parking brake lever, the installation of the other cable end will be easy.

34-27

UPPER AND LOWER ARM

REMOVAL AND INSTALLATION

M34SA--





SERVICE POINTS OF REMOVAL 1. REMOVAL OF SELF LOCKING NUT

M34SBAA

With the special tool, disconnect the upper arm ball joint and knuckle.

Caution

While the special tool is being used, do not remove the self locking nut; only loosen it.



6. REMOVAL OF SELF LOCKING NUT

With the special tool, disconnect the lower arm ball joint and knuckle.

Caution

While the special tool is being used, do not remove the self locking nut; only loosen it.

6. REMOVAL OF STABILIZER LINK INSTALLATION NUT

Hold the stabilizer link with a wrench and remove the installation nut.

INSPECTION

M34SCAA

M34SFAA

- Check the bushing for wear and deterioration.
- Check the upper arm or lower arm for bend or breakage.
- Check the ball joint dust cover for cracks.
- Check all bolts for condition and straightness.

CHECKING OF BALL JOINT FOR STARTING TORQUE

- (1) If a crack is noted in the dust cover, replace it, adding arease.
- (2) Deflect side to side the ball joint stud several times.
- (3) Mount two nuts on the ball joint, and then measure the ball joint starting torque.

Standard value: 2-9 Nm (17-78 in.lbs.)

- (4) If the starting torque exceeds the upper limit of standard value, replace the upper and lower arm assembly.
- (5) Even if the starting torque is below the lower limit of the standard value, the ball joint may be reused unless it has drag and excessive play.

BALL JOINT DUST COVER REPLACEMENT M34SEAA

- (1) Remove the dust cover.
- (2) Apply multipurpose grease to the lip and inside of the dust cover.
- (3) Drive in the dust cover with special tool until it is fully seated.

LOWER ARM BUSHING REPLACEMENT

(1) Use the special tool to remove and press fit the bushing.

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(2) Press fit the lower arm bushing until the bushing outer pipe edge flush with the lower arm pipe edge.

SERVICE POINTS OF INSTALLATION M34SDAA 6. INSTALLATION OF STABILIZER LINK INSTALLATION NUT

Holding the stabilizer link with a wrench, tighten the self locking nut so that the protrusion of the stabilizer link (dimension A indicated in illustration) is within the standard value.

Standard value: 9-11 mm (.354-.433 in.)

TRAILING ARM

REMOVAL AND INSTALLATION



M34TA--



SERVICE POINTS OF REMOVAL

2. REMOVAL OF REAR BRAKE ASSEMBLY

M34TBAA

Remove the rear brake assembly installation bolts, then suspend the rear brake assembly from the vehicle with wire. etc.

5. REMOVAL OF SELF LOCKING NUT

With the special tool, secure the rear axle shaft, then remove the self locking nut.

9. REMOVAL OF REAR AXLE SHAFT

With the special tool, remove the rear axle shaft.



11. REMOVAL OF SELF LOCKING NUT (UPPER ARM)

With the special tool, disconnect the upper arm ball joint and knuckle.

Caution

While the special tool is being used, do not remove the self locking nut; only loosen it.

12. REMOVAL OF SELF LOCKING NUT (LOWER ARM)

With the special tool, disconnect the lower arm ball joint and knuckle.

Caution

While the special tool is being used, do not remove the self locking nut; only loosen it.

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12A0096

(?)

MB991113-01 OPTIONAL



REAR SUSPENSION <AWD> - Trailing Arm



- (8) Remove the special tool after aligning the holes in the special tool and trailing arm.
- (9) Tighten the bolts and nuts to the specified torque. **Tightening torque: 85–110 Nm (61–80 ft.lbs.)**

(10)Press fit the trailing arm bushing. (Refer to P.34-33.)



12A0618



Removal steps

- 1. Shock absorber upper installation nut
- 2. Brake tube bracket installation bolt
- 3. Shock absorber lower installation bolt
- 4. Shock absorber assembly

DISASSEMBLY AND REASSEMBLY

M34GM-B



INSPECTION

M34GOAB

- Check the rubber parts for damage.
- Check the coil springs for crack, damage or deterioration.

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STABILIZER BAR





SERVICE POINTS OF REMOVAL

M34IDAB

- 1. REMOVAL OF SELF LOCKING NUT/ 2. CROSSMEMBER BRACKET
 - (1) Support the rear suspension assembly with a transaxle jack.
 - (2) Remove the self locking nuts and crossmember brackets.

6. REMOVAL OF SELF LOCKING NUT

Hold the stabilizer link with a wrench, then remove the self locking nut.

- 10. REMOVAL OF SELF LOCKING NUT/I 1. STABILIZER LINK
 - (1) Hold the stabilizer links with a wrench and remove the self locking nuts.
 - (2) Remove the stabilizer links.

14. REMOVAL OF STABILIZER BAR

- Lower the transaxle jack slightly, maintaining a gap between the rear suspension and the body.
 Demove the stabilizer bar.
- (2) Remove the stabilizer bar.

INSPECTION

M34TCAF

- Check the bushing for wear and deterioration.
 - Check the stabilizer bar for deterioration or damage.
- Check the stabilizer link ball joint dust cover for cracks.
- Check all bolts for condition and straightness.

M34ICAD



CHECKING OF STABILIZER LINK BALL JOINT FOR START-ING TORQUE

- (1) If a crack is noted in the dust cover, replace it, adding arease.
- (2) Deflect side to side the stabilizer link ball joint stud several times.
- (3) Mount two nuts on the ball joint, and then measure the ball joint starting torque.

Standard value: 1.7-3.2 Nm (15-28 in.lbs.)

- (4) If the starting torque exceeds the upper limit of standard value, replace the stabilizer link.
- (5) Even if the starting torque is below the lower limit of the standard value, the ball joint may be reused unless it has drag and excessive play.

BALL JOINT DUST COVER REPLACEMENT M34KEAA

- (1) Remove the clip ring and the dust cover.
- (2) Apply multipurpose grease to the lip and inside of the dust cover.

- (3) Use vinyl tape to tape the stabilizer link where shown in the illustration, and then install the dust cover to the stabilizer link.
- (4) Secure the dust cover by the clip ring.

SERVICE POINTS OF INSTALLATION 11. INSTALLATION OF STABILIZER LINK/ 10. SELF LOCK-ING NUT/G. SELF LOCKING NUT

- (1) Hold the stabilizer link ball studs with a wrench and install the self locking nut (A).
- (2) Holding the stabilizer link with a wrench, tighten the self locking nut (B) so that the protrusion of the stabilizer link is within the standard value.

Standard value: 9-11 mm (.354-.433 in.)

NOTES