POWER PLANT MOUNT

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E32AA--

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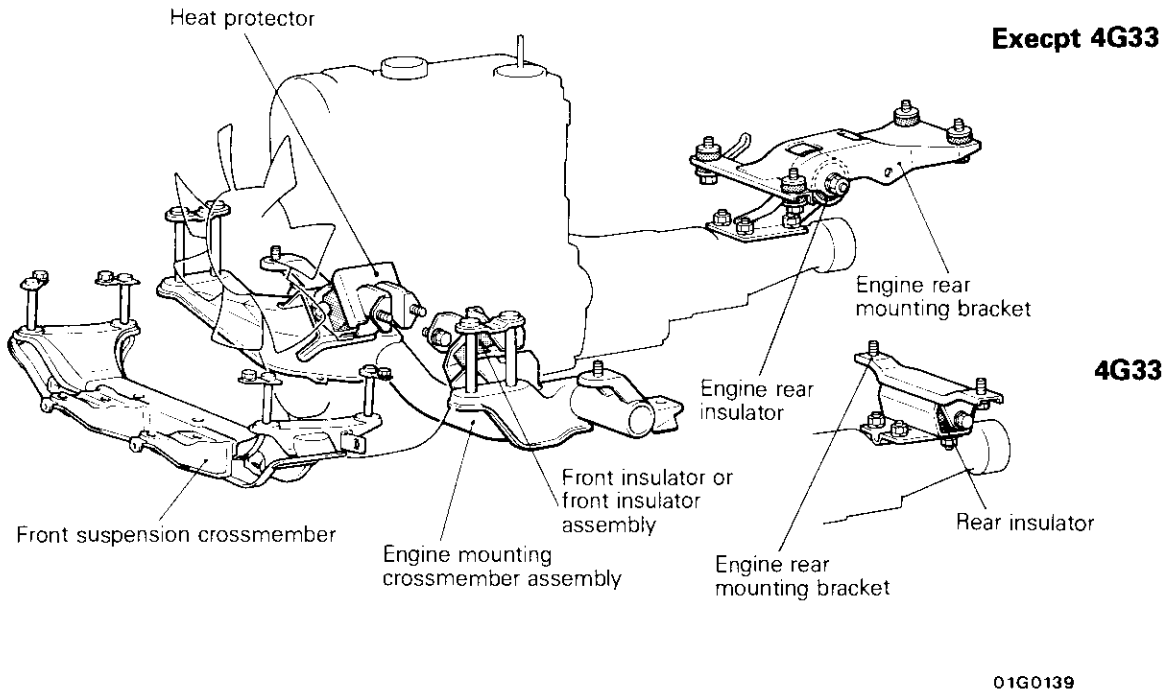
POWER PLANT MOUNT (2WD)

GENERAL INFORMATION

E32BAAE

An engine-support method (the 3-point support method) by which insulators are used at three places (2 places at the engine itself and 1 place at the transmission) has been adopted. The front suspension crossmember is bolted to the body.



SPECIFICATIONS

SERVICE SPECIFICATIONS

E32CB—

Items		Specifications
Standard value		
Strut bar installation dimension	mm (in.)	110 (4.33)
Stabilizer attaching bolt end attaching dimension	mm (in.)	10–12 (0.39–0.47)

TORQUE SPECIFICATIONS

E32CC—

Items	Nm	kgm	ft.lbs.
Front engine mounting			
Engine mounting front insulator to engine	18–25	1.8–2.5	13–18
Engine mounting front insulator to engine mounting crossmember	35–55	3.5–5.5	25–40
Engine support front insulator to heat protector	9–14	0.9–1.4	7–10
Engine support front insulator to engine	35–55	3.5–5.5	25–40
Engine support front insulator to engine mounting crossmember	35–55	3.5–5.5	25–40
Engine support front insulator (LH) to stopper bolt [4G63, G63B (except GENERAL EXPORT), 4G64]	34–50	3.4–5.0	25–36

Items	Nm	kgm	ft.lbs.
Rear engine mounting			
4G33			
Rear engine mounting bracket to body	35–55	3.5–5.5	25–40
Rear engine insulator to rear engine mounting bracket	70–95	7.0–9.5	51–69
Rear engine insulator to rear insulator support	35–55	3.5–5.5	25–40
Rear insulator support to transmission	35–55	3.5–5.5	25–40
Except 4G33			
Rear engine mounting bracket to body	35–55	3.5–5.5	25–40
Rear engine insulator to rear engine mounting bracket	70–95	7.0–9.5	51–69
Rear engine insulator to transmission	35–55	3.5–5.5	25–40
Engine mounting crossmember			
Bolt assembly to body	9–14	0.9–1.4	7–10
Engine mounting crossmember to bolt assembly	90–110	9.0–11	65–80
Engine mounting crossmember to strut bar			
Vehicles built up to May 1994	90–125	9.0–12.5	65–90
Vehicles built from June 1994	140–190	14–19	101–137
Strut bar to lower arm	85–110	8.5–11	61–80
Front suspension crossmember			
Bolt assembly to body	9–14	0.9–1.4	7–10
Front suspension crossmember to bolt assembly	120–160	12–16	87–116
Shaft assembly	110–130	11–13	80–94
Front suspension crossmember to steering gear box	70–95	7.0–9.5	51–69
Brake line flare nut	13–17	1.3–1.7	9–12

TROUBLESHOOTING

E32EAAC

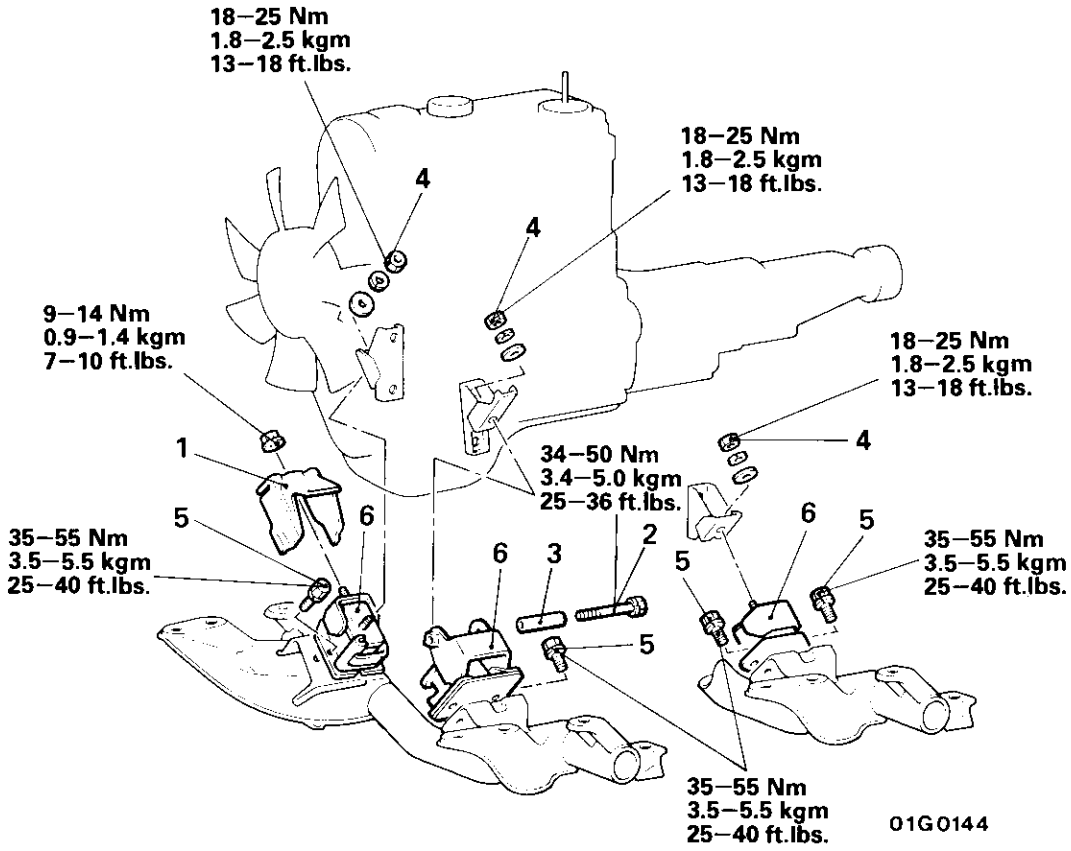
Symptom	Probable cause	Remedy	Reference page
Excessive engine rolling or high engine vibration (with engine in normal condition)	Cracked insulator rubber	Replace	32–4, 5, 7
	Deformed front insulator and/or insulator stopper	Replace	32–4, 5
	Loose parts	Retighten	32–4, 5, 7, 8
Abnormal noise	Deformed front insulator and/or insulator stopper	Replace	32–4, 5
	Loose parts	Retighten	32–4, 5, 7, 8, 10

FRONT ENGINE MOUNTING

REMOVAL AND INSTALLATION

E32GA--

Petrol-powered vehicles (except 4G32 and 4G33), diesel-powered vehicles

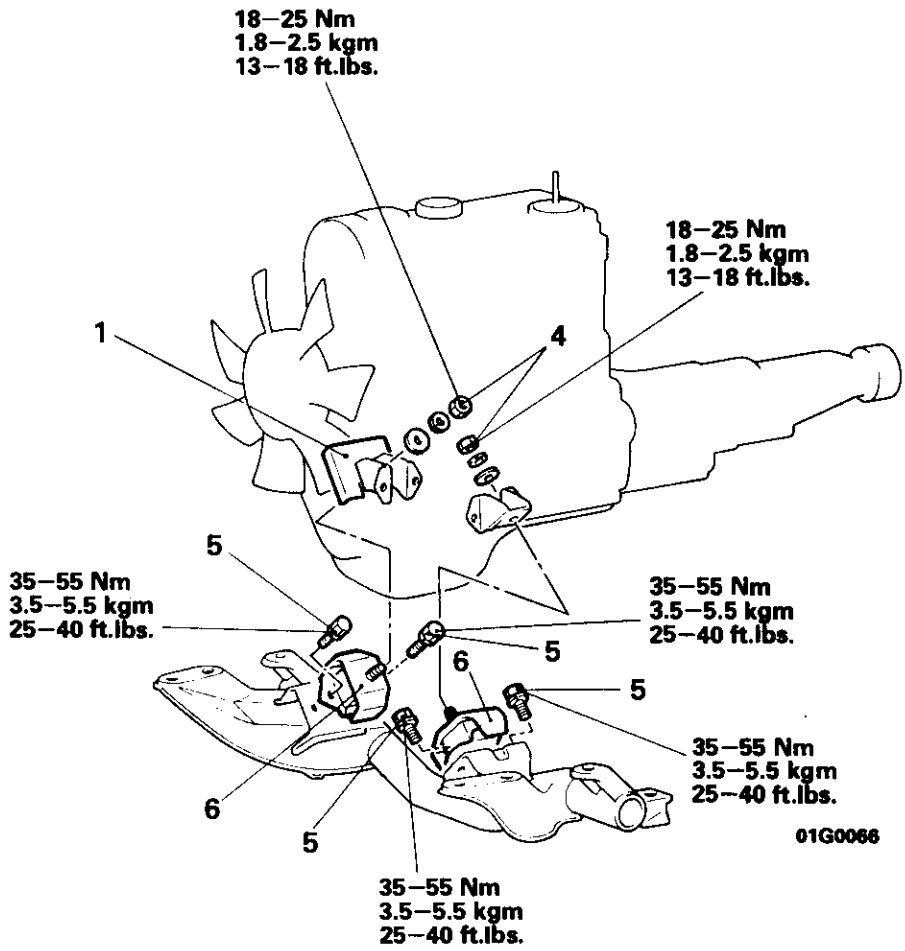


Removal steps

1. Heat protector
2. Stopper bolt (petrol-powered mini-bus)
3. Pipe (petrol-powered mini-bus)
4. Nuts
5. Bolts
◆◆▶◀◆6. Engine support front insulator assemblies

NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆ : Refer to "Service Points of Removal".
(3) ▶◀ : Refer to "Service Points of Installation".

Petrol-powered vehicles (4G32, 4G33)



Removal steps

4. Nuts
5. Bolts
1. Heat protector
◆◆◆◆6. Engine mounting front insulators

NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆ : Refer to "Service Points of Removal".
(3) ◆◆ : Refer to "Service Points of Installation".

SERVICE POINTS OF REMOVAL E32GBAC

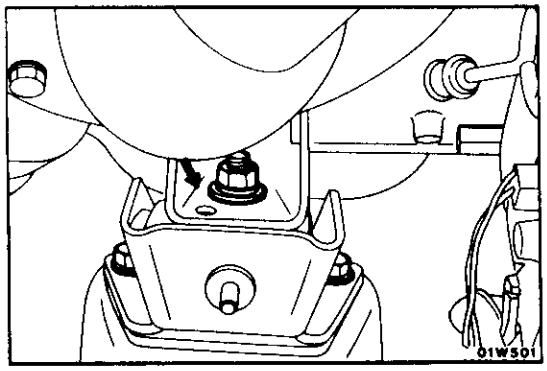
6. REMOVAL OF ENGINE MOUNTING FRONT INSULATORS OR ENGINE SUPPORT FRONT INSULATOR ASSEMBLIES

Firmly support oil pan with jacks and wooden blocks. Remove insulator.

Caution
Do not raise the engine too much, as this may damage hoses and cables.

INSPECTION E32GCAA

- Check the insulator for cracks, flaking or deformation.
- Check the insulator stopper plate for deformation or cracks.



SERVICE POINTS OF INSTALLATION E32GDAC

6. INSTALLATION OF ENGINE SUPPORT FRONT INSULATOR ASSEMBLIES OR ENGINE MOUNTING FRONT INSULATORS

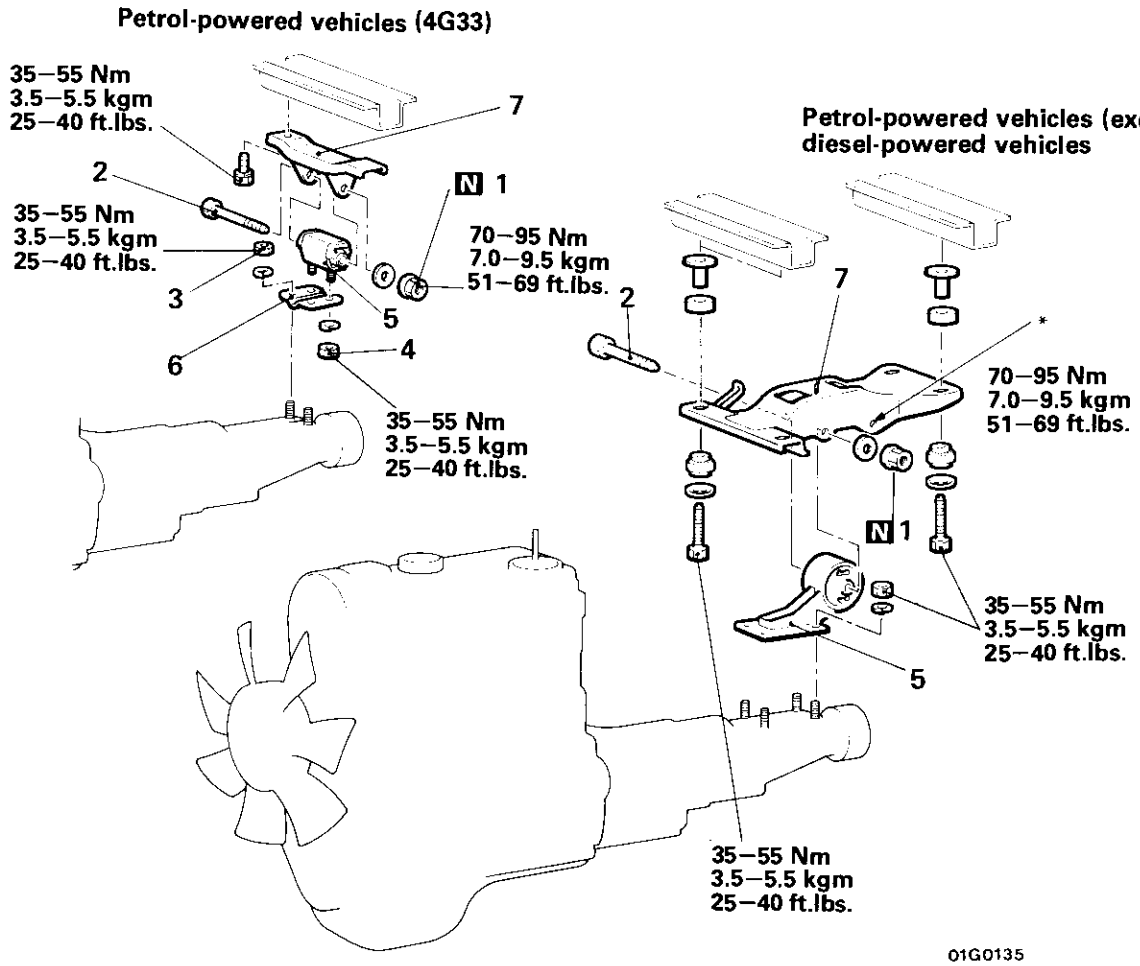
Align the hole to the positioning boss and assemble.

Caution
Do not allow gasoline or oil to contact insulator.

REAR ENGINE MOUNTING

REMOVAL AND INSTALLATION

E32HA--



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Removal steps

Petrol-powered vehicles (4G33)

1. Self-locking nut
◆◆2. Bolt
3. Nuts
4. Nuts
5. Rear engine insulator
6. Rear insulator support
7. Rear engine mounting bracket

Petrol-powered vehicles (except 4G33), diesel-powered vehicle

1. Self-locking nut
◆◆2. Bolt
5. Rear engine insulator
7. Rear engine mounting bracket

NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆ : Refer to "Service Points of Removal".
(3) N : Non-reusable parts
(4) Mark (*) indicates the mounting position in A/T vehicles.

SERVICE POINTS OF REMOVAL

E32HBAC

2. REMOVAL OF BOLT

Support the transmission with a jack and remove the rear engine insulator.

Caution
If the transmission is inclined too much, the engine parts may interfere with each other causing damage.

INSPECTION

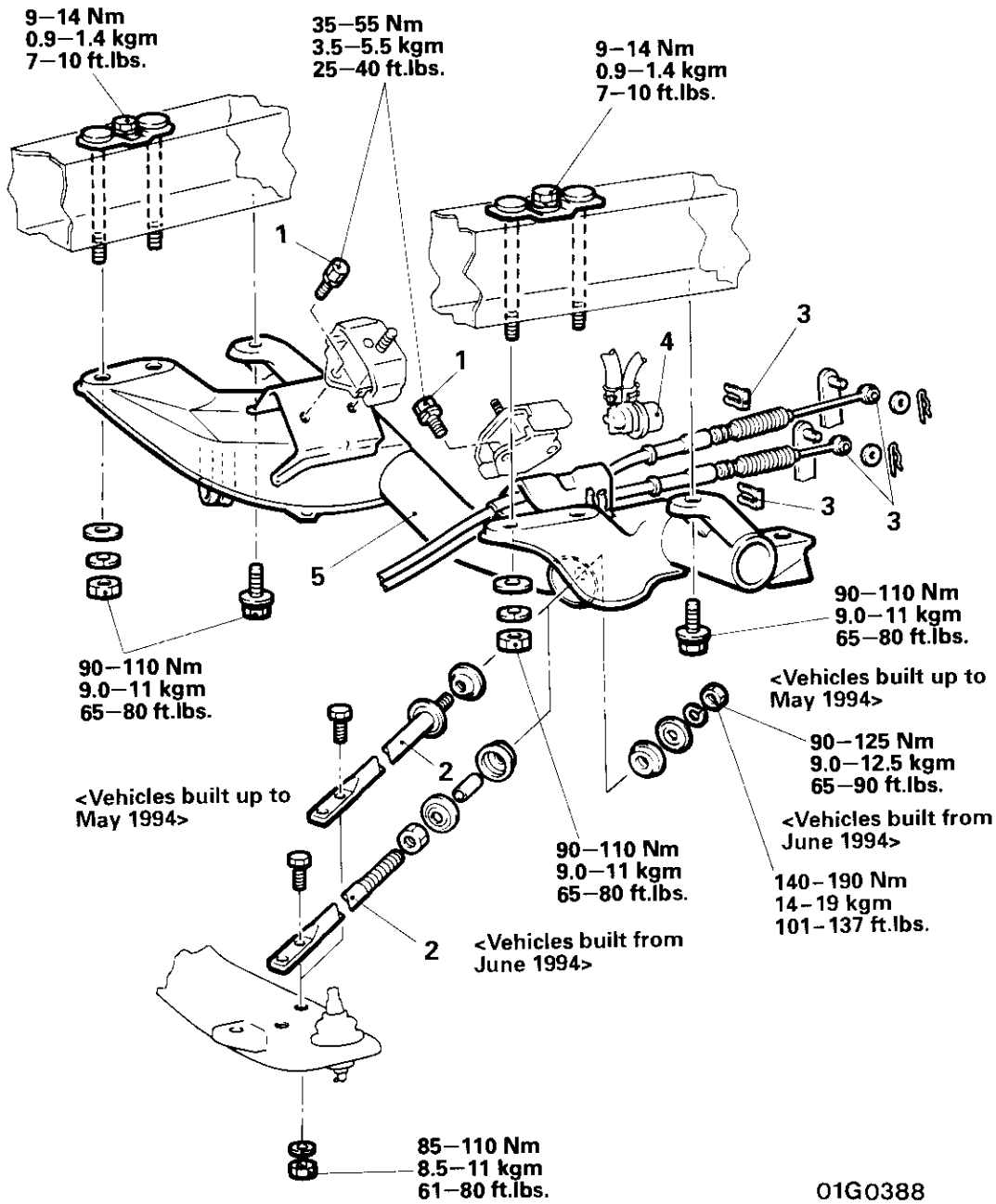
E32HCAC

- Check insulator for deformation or cracks.

ENGINE MOUNTING CROSSMEMBER

REMOVAL AND INSTALLATION

E321A--



Removal steps

1. Bolts
2. Strut bars
3. Connection of shift control cable and transmission
4. Connection of fuel strainer (petrol-powered vehicles)
5. Engine mounting crossmember

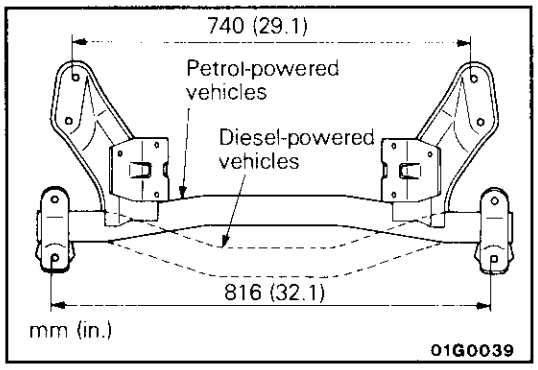
NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆ : Refer to "Service Points of Removal".
(3) ◆◆ : Refer to "Service Points of Installation".

SERVICE POINTS OF REMOVAL E32IBAA

5. REMOVAL OF ENGINE MOUNTING CROSSMEMBER

Firmly support oil pan with jacks and battens. Remove engine mounting crossmember.

Caution
Do not raise the engine too much, as this may damage hoses and cables.



INSPECTION E32ICAA

- Check the crossmember for cracks or damage.
- Check the crossmember as illustrated for dimensions.

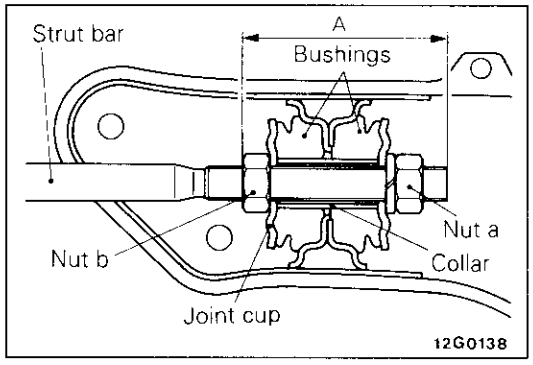
SERVICE POINTS OF INSTALLATION E32IDAA

5. INSTALLATION OF ENGINE MOUNTING CROSSMEMBER

Run the shift control cables through the insulator mounting bracket and attach the crossmember to the body.

3. CONNECTION OF SHIFT CONTROL CABLES TO THE TRANSMISSION

Attach the shift control cable ends with the markings at the pin connections facing outwards. Attach cables in so that the boots are not twisted.



2. INSTALLATION OF STRUT BARS <Vehicles built from June 1994>

(1) Adjust the position of nut b to the standard value.

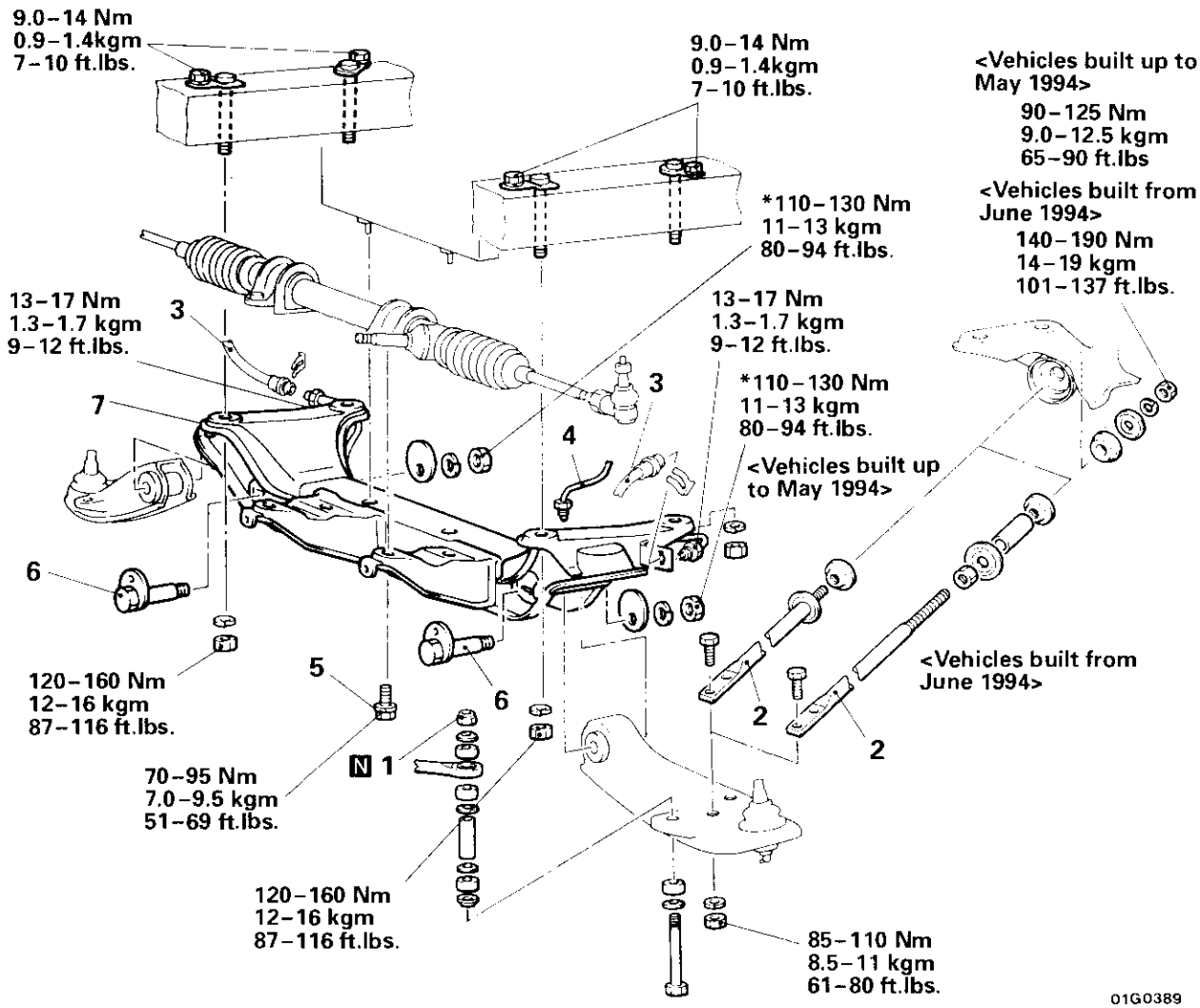
Standard value (A): 110 mm

(2) Install the joint cup and strut bar bushings as shown in the illustration, and then tighten the nut a to the specified torque.

FRONT SUSPENSION CROSSMEMBER

REMOVAL AND INSTALLATION

E32PA--



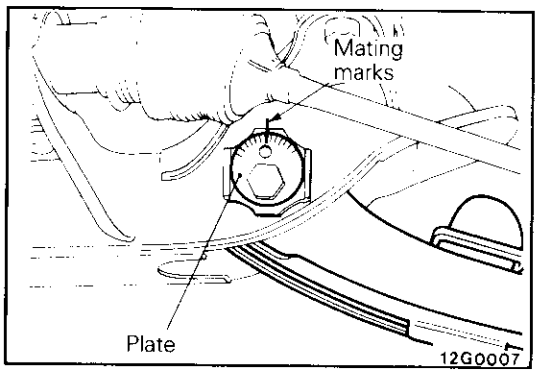
Removal steps

- ◆◆1. Self-locking nut (L.H. only)
- ◆◆2. Strut bar (L.H. only)
- 3. Connection of brake hose
- 4. Connection of brake tube
- 5. Bolts
- ◆◆◆◆6. Shaft assembly
- 7. Suspension crossmember

NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆ : Refer to "Service Points of Removal".
(3) ◆◆ : Refer to "Service Points of Installation".
(4) N : Non-reusable parts
(5) * : Must be tightened while vehicle is unladen.

Pre-removal Operation
- Removal of under cover
  (Refer to GROUP 42 BODY–Under Cover and Protector.)
- Drain of brake fluid
  (Refer to GROUP 35 SERVICE BRAKES–Service Adjustment Procedures.)

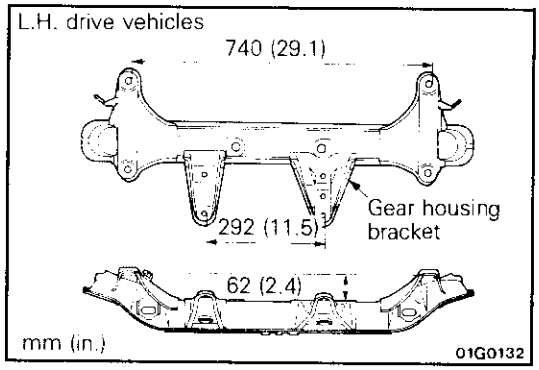
Post-installation Operation
- Air bleeding of brake line
  (Refer to GROUP 35 SERVICE BRAKES–Service Adjustment Procedures.)
- Inspection of wheel alignment
  (Refer to GROUP 33 FRONT SUSPENSION–Service Adjustment Procedures.)
- Installation of under cover
  (Refer to GROUP 42 BODY–Under Cover and Protector.)



SERVICE POINTS OF REMOVAL E32PBAF

6. REMOVAL OF SHAFT ASSEMBLY

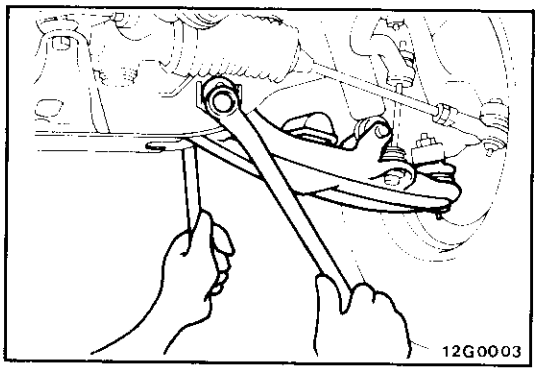
Put mating marks on the shaft assembly plate and the crossmember



INSPECTION E32PCAG

- Check the crossmember for cracks or damage.
- Check the crossmember as illustrated for dimensiions.

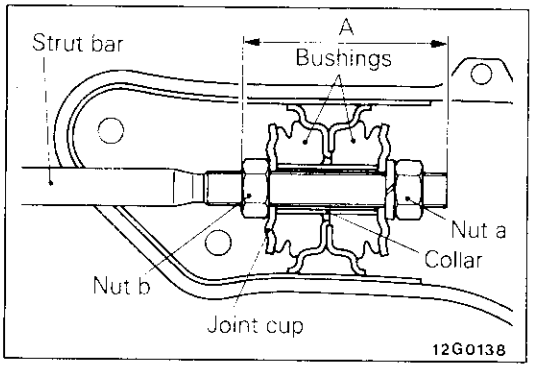
NOTE
For the front suspension crossmember of R.H. dirve vehicles, the position of the gear housing bracket is reversed from that of L.H. drive vehicles.



SERVICE POINTS OF INSTALLATION E32PDAB

6. INSTALLATION OF SHAFT ASSEMBLY

(1) Align the mating marks on the shaft assembly and crossmember and temporarily fix the lower arm nut.
(2) Fully tighten the lower arm nut with the vehicle in the unladen condition.

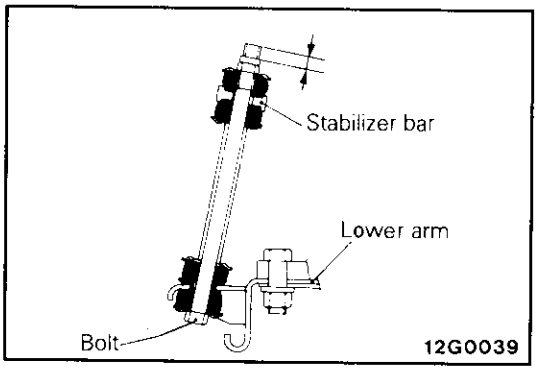


2. INSTALLATION OF STRUT BARS <Vehicles built from June 1994>

(1) Adjust the position of nut b to the standard value.

Standard value (A): 110 mm

(2) Install the joint cup and strut bar bushings as shown in the illustration, and then tighten the nut a to the specified torque.



1. INSTALLATION OF SELF-LOCKING NUT (Vehicles equipped with a stablilizer bar)

Attach the cups and bushes as shown in the figure. Fasten the self-locking nut to the position at which the length of the bolt above the nut becomes the standard value.

Standard value: 10–12 mm (0.39–0.47 in.)

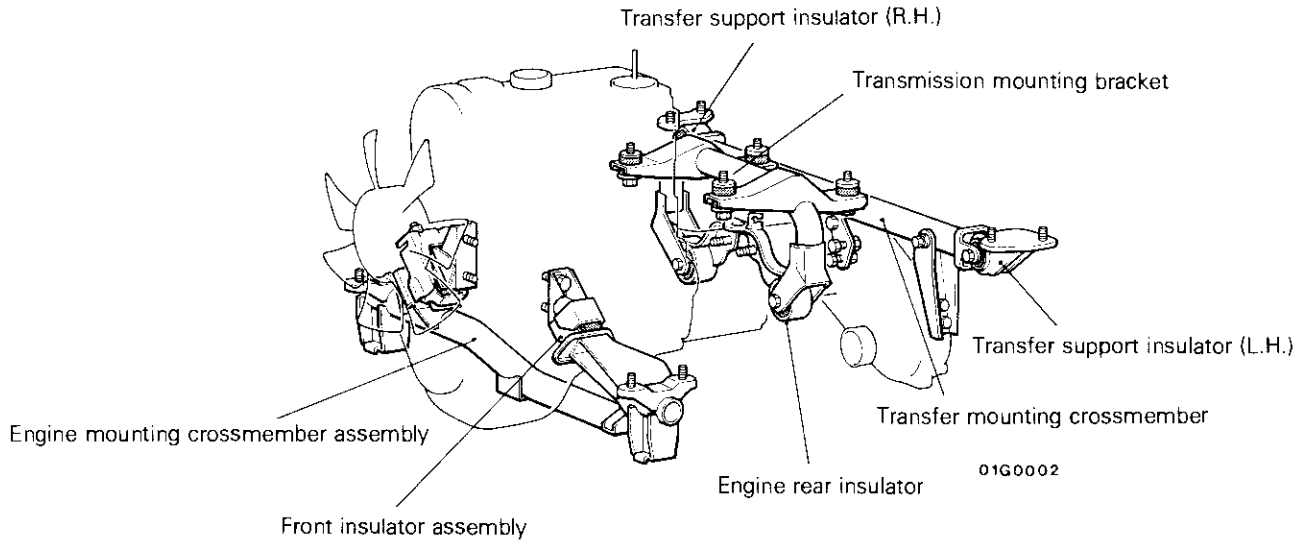
POWER PLANT MOUNT (4WD)

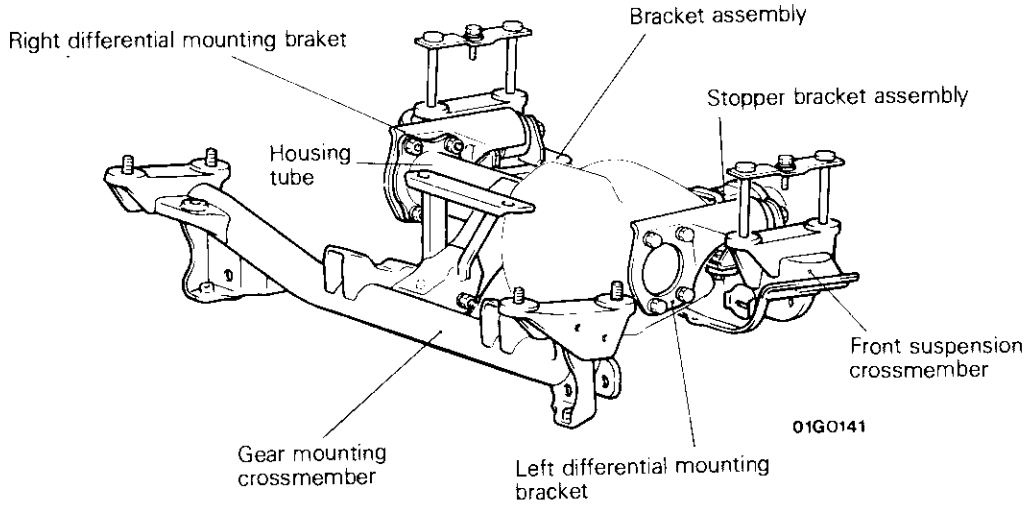
GENERAL INFORMATION

E32BAAFa

[Applicable through June production, 1987]

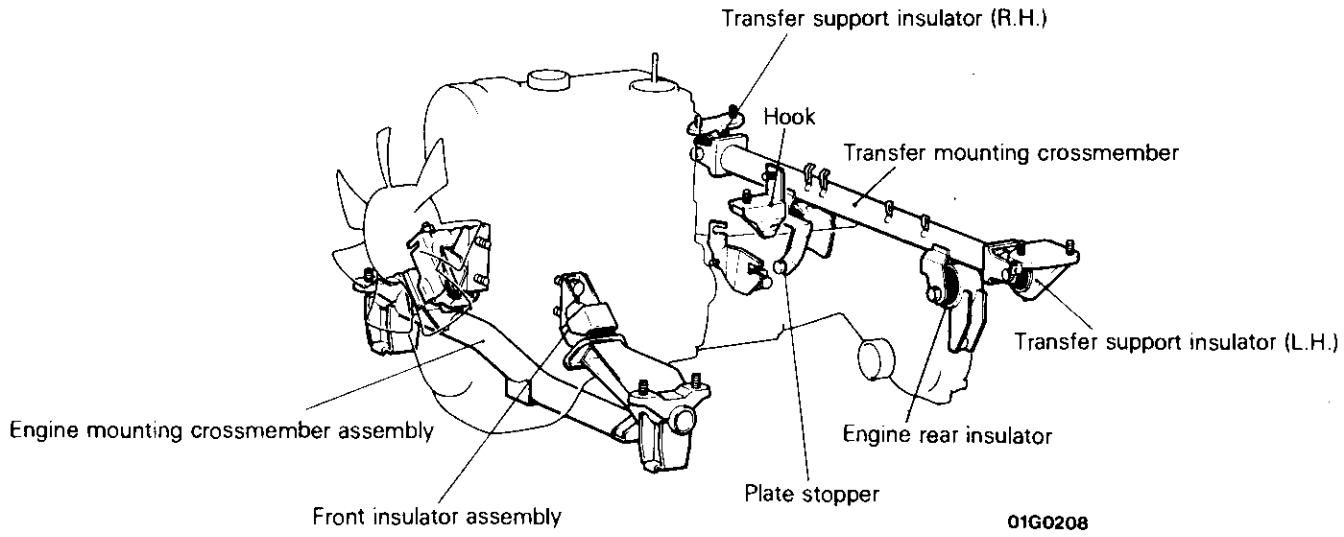
An engine-support method (the 4-point support method) by which insulators are used at four places (2 places at the engine itself and 2 places at the transmission) has been adopted. Both ends of the transfer are fixed on the transfer mounting crossmember, and both ends of the crossmember are supported by the body through the transfer support insulator. A front differential-support method (the 3-point support method) by which mounting brackets and mounting rubber pieces are used at three places (one on the gear mounting crossmember, and two on the both sides of the front suspension crossmember) has been adopted.
The front suspension crossmember is bolted to the body and supports the front differential.
The gear mounting crossmember is bolted to the body and supports the steering gear box, radiator and front differential.

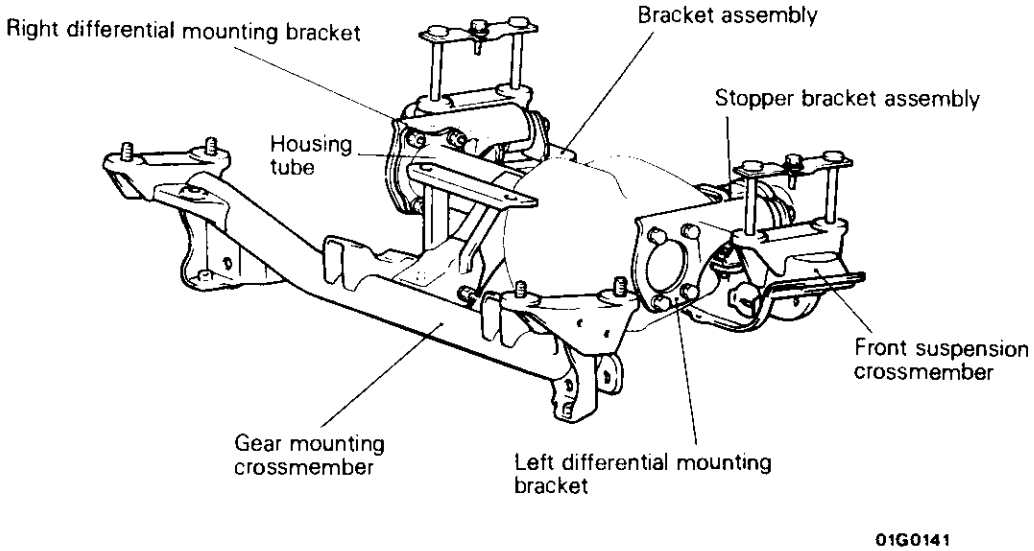




[Apprllcable from July production, 1987] E32BAAI

In the rear engine mounting, the transmission mounting bracket has been discontinued and the transfer supported at two points on the transfer mounting crossmember through the insulator. Collision charactreristics have also been improved through the use of a transmission stopper.





SPECIFICATIONS

SERVICE SPECIFICATIONS

E32C8--

Items	Specifications
Standard values	
Stabilizer attaching bolt end attaching dimension mm (in.)	
At gear mounting crossmember	4.5–6.5 (0.18–0.26)
At lower arm	8–10 (0.31–0.39)

TORQUE SPECIFICATIONS

E32CC--

Items	Nm	kgm	ft.lbs.
Front engine mounting			
Engine support front insulator to heat protector	9–14	0.9–1.4	7–10
Engine support front insulator to engine	18–25	1.8–2.5	13–18
Engine support front insulator to engine mounting crossmember	35–55	3.5–5.5	25–40
Engine support front insulator (L.H.) to stopper bolt (except GENERAL EXPORT)	34–50	3.4–5.0	25–36
Rear engine mounting			
Transmission mounting bracket to body	35–55	3.5–5.5	25–40
Transmission mounting bracket to rear engine insulator	70–95	7.0–9.5	51–69
Rear engine insulator to transmission	17–26	1.7–2.6	12–19
Transfer support insulator to body	35–55	3.5–5.5	25–40
Transfer mounting crossmember to transfer support insulator [applicable through June production, 1987]	35–55	3.5–5.5	25–40
[applicable from July production, 1987]	70–95	7.0–9.5	51–69
Transfer mounting crossmember to bracket	35–55	3.5–5.5	25–40
Transfer mounting crossmember bracket (R.H.) to transmission	35–55	3.5–5.5	25–40
Transfer mounting crossmember bracket (L.H.) to transmission	19–28	1.9–2.8	14–20
Engine rear insulator to transmission	19–28	1.9–2.8	14–20
Transfer mounting crossmember to engine rear insulator	70–95	7.0–9.5	51–69
Hook to body	35–55	3.5–5.5	25–40
Plate stopper to transmission			
Cable bracket to transmission	17–26	1.7–2.6	12–19
Front differential mounting			
Left differential mounting bracket to differential carrier	80–100	8.0–10	58–72
Right differential mounting bracket to housing tube	80–100	8.0–10	58–72
Left differential mounting bracket to stopper bracket assembly	60–80	6.0–8.0	43–58
Right differential mounting bracket to bracket assembly	60–80	6.0–8.0	43–58
Stopper bracket assembly to front suspension crossmember	35–55	3.5–5.5	25–40
Bracket assembly to front suspension crossmember	35–55	3.5–5.5	25–40
Engine mounting crossmember to body	35–55	3.5–5.5	25–40

Item	Nm	kgm	ft.lbs.
Front suspension crossmember			
Bolt assembly to body	4–6	0.4–0.6	3–4
Front suspension crossmember to bolt assembly	70–95	7.0–9.5	51–69
Shaft assembly	90–110	9.0–11	65–80
Bolt assembly	90–120	9.0–12	65–87
Gear mounting crossmember			
Gear mounting crossmember to body	120–160	12–16	87–116
Gear mounting crossmember to steering gear box	70–95	7.0–9.5	51–69
Gear mounting crossmember to housing tube	70–95	7.0–9.5	51–69

TROUBLESHOOTING

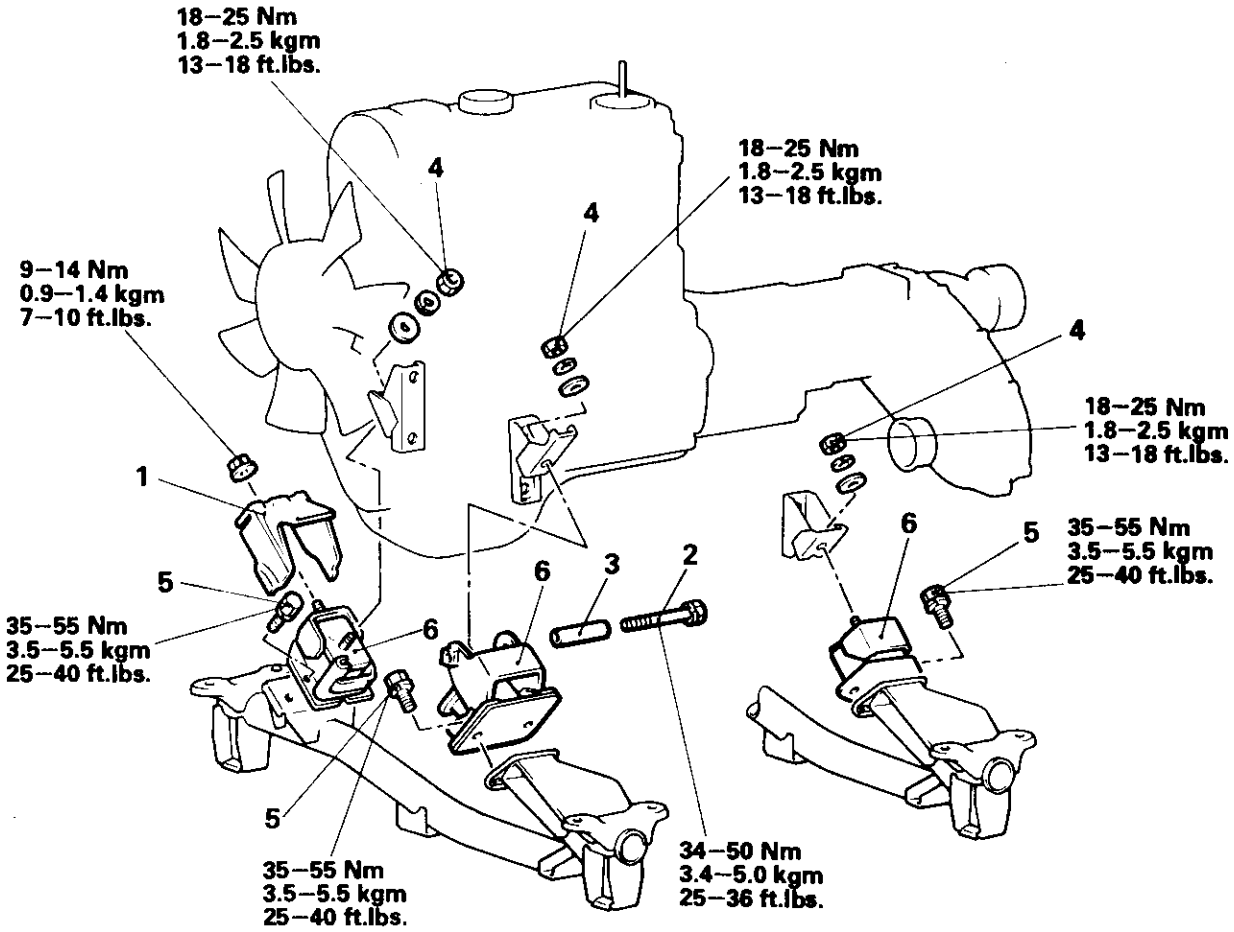
E32EAAC

Symptom	Probable cause	Remedy	Reference page
Excessive engine rolling or high engine vibration (with engine in normal condition)	Cracked insulator rubber	Replace	32–15, 17
	Deformed front insulator and/or insulator stopper	Replace	32–15
	Loose parts	Retighten	32–15, 17, 19, 20
Abnormal noise	Deformed front insulator and/or insulator stopper	Replace	32–15
	Loose parts	Retighten	32–15, 17, 19, 20, 22, 24

FRONT ENGINE MOUNTING

REMOVAL AND INSTALLATION

E32GA--



Removal steps

1. Heat protector
2. Stopper bolt
3. Pipe
4. Nut
5. Bolts
◆1▶◆6. Engine support front insulator assembly

NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆1▶ : Refer to "Service Points of Removal".
(3) ▶◆6 : Refer to "Service Points of Installation".

SERVICE POINTS OF REMOVAL E32GBAD

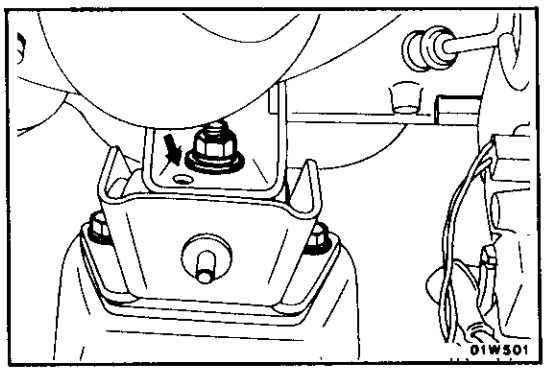
6. REMOVAL OF ENGINE SUPPORT FRONT INSULATOR ASSEMBLY

Firmly support oil pan with jacks and wooden blocks. Remove insulator.

Caution
Do not raise the engine too much, as this may damage hoses and cables.

INSPECTION E32GCAA

- Check the insulator for cracks, flaking or deformation.
- Check the insulator stopper plate for deformation or cracks.



SERVICE POINTS OF INSTALLATION E32GDAD

6. INSTALLATION OF ENGINE SUPPORT FRONT INSULATOR ASSEMBLY

Align the hole to the positioning boss and assemble.

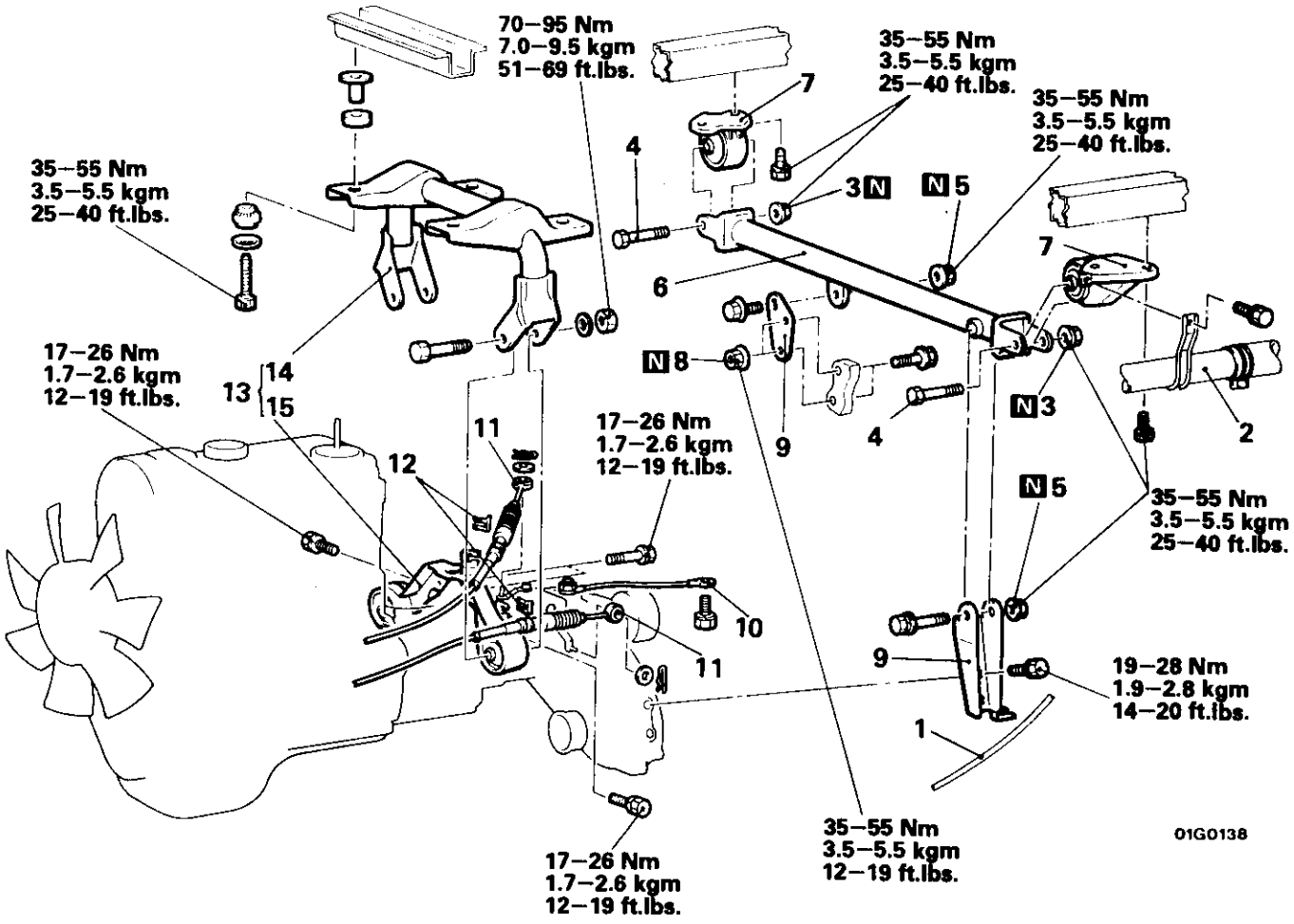
Caution
Do not allow gasoline or oil to contact insulator.

REAR ENGINE MOUNTING

E32HA–A

[Applicable through June production, 1987]

REMOVAL AND INSTALLATION



Removal steps

1. Connection of speedometer cable
2. Connection of fuel filler neck
3. Self-locking nuts
4. Bolts
5. Self-locking nuts
6. Trasfer mounting crossmember assembly
7. Transfer support insulators
8. Self-locking nuts
9. Brackets
10. Connection of earth cable
- ◆◆11. Connection of shift control cables and transmission
12. Connection of shift control cables and rear engine insulator
- ◆◆ ◆◆13. Transmission mounting bracket assembly
14. Transmission mounting bracket
15. Rear engine insulator

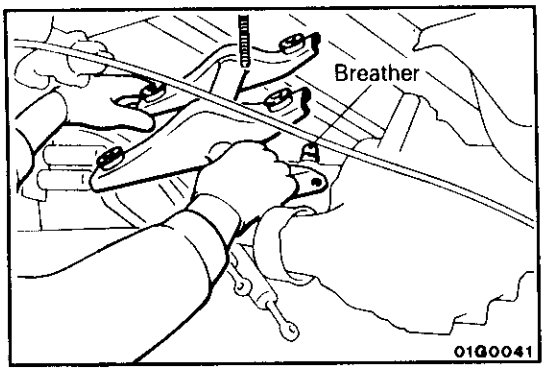
NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆ : Refer to "Service Points of Removal".
(3) ◆◆ : Refer to "Service Points of Installation".
(4) N : Non-reusable parts

SERVICE POINTS OF REMOVAL E32HBAD

13. REMOVAL OF TRANSMISSION MOUNTING BRACKET ASSEMBLY

(1) Support the transmission with a jack and lower it gently to where the transmission mounting bracket assembly can be removed.

Caution
If the transmission is inclined too much, the engine parts may interfere with each other causing damage.



(2) Remove the transmission mounting bracket assembly out to the left side of the vehicles.

Caution
Do not scratch the transmission breather with the rear engine insulator.

INSPECTION E32HCAD0

- Check the insulator for cracks, flaking or deformation.
- Check the transfer mounting crossmember assembly for deformation or damage.
- Check the transmission mounting for deformation or damage.

SERVICE POINTS OF INSTALLATION E32HDAA

13. INSTALLATION OF TRANSMISSION MOUNTING BRACKET ASSEMBLY

Assemble so that the shift control cables come between the mounting bracket and rear engine insulator.

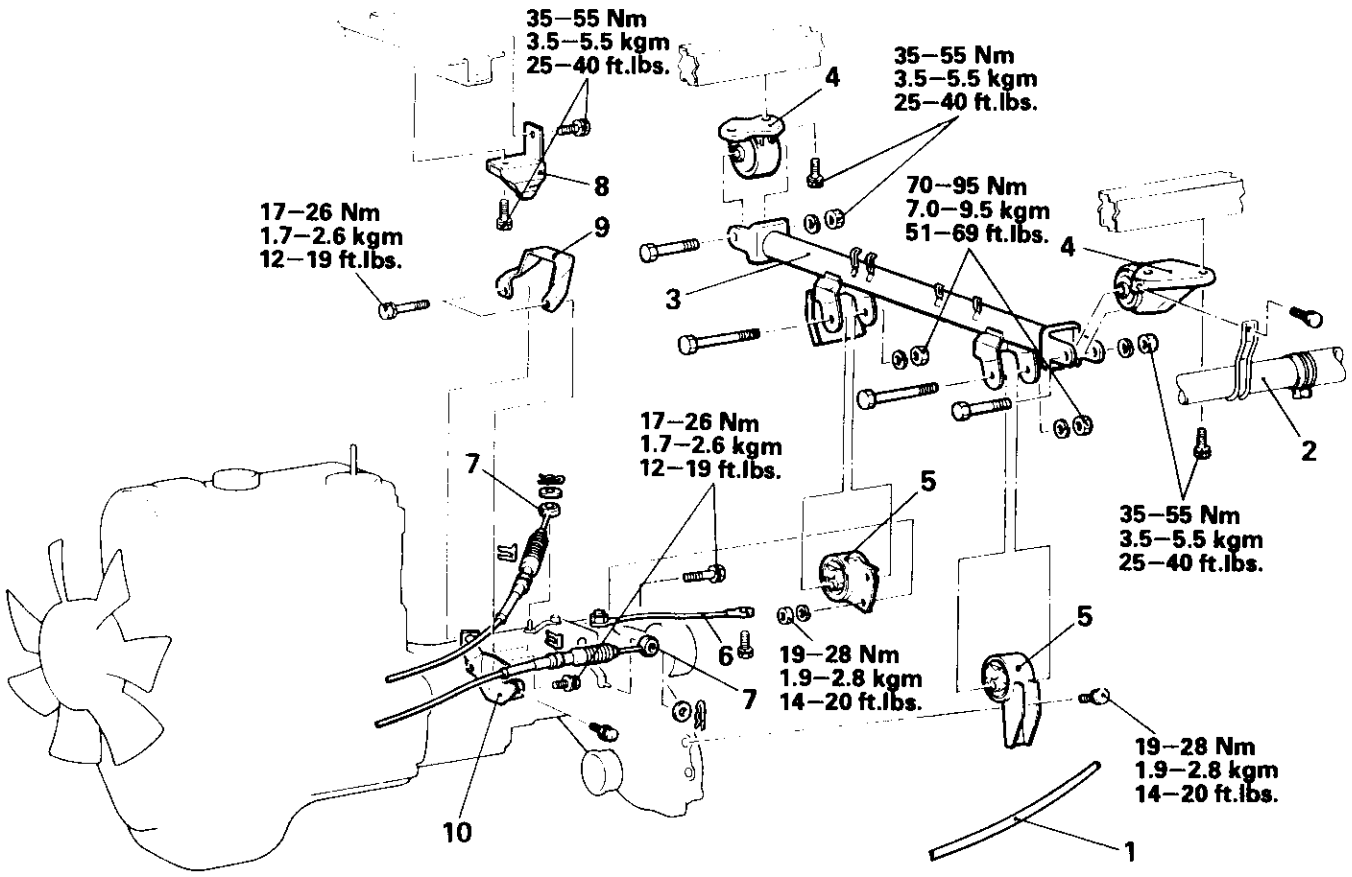
Caution
Tighten the rear engine insulator attaching bolt to the speicifed torque. Do not overtighten.

11. CONNECTION AND INSTALLATION OF SHIFT CONTROL CABLE AND TRANSMISSION

Attach the shift control cable ends with the markings at the pin connections facing outwards. Attach cables in so that the boots are not twisted.

[Applicable from July production, 1987] E32HA-B

REMOVAL AND INSTALLATION



01G0209

Removal steps

1. Connection of speedometer cable
2. Connection of fuel filler neck
◆◆ 3. Trasfer mounting crossmember assembly
4. Transfer support insulators
5. Engine rear insulator
6. Connection of earth cable
◆◆ 7. Connection of shift control cables and transmission
8. Hook
9. Plate stopper
10. Cable bracket

NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆: Refer to "Service Points of Removal".
(3) ◆◆: Refer to "Service Points of Installation".

SERVICE POINTS OF REMOVAL E32HBAE

3. REMOVAL OF TRANSFER MOUNTING CROSSMEMBER ASSEMBLY

(1) Support the transmission with a jack and lower it gently to where the transfer mounting crossmember assembly can be removed.

Caution
If the transmission is inclined too much, the engine parts may interfere with each other causing damage.

INSPECTION E32HCAD1

- Check the insulator for cracks, flaking or deformation.
- Check the transfer mounting crossmember assembly for deformation or damage.
- Check the transmission mounting for deformation or damage.

SERVICE POINTS OF INSTALLATION E32HDAB

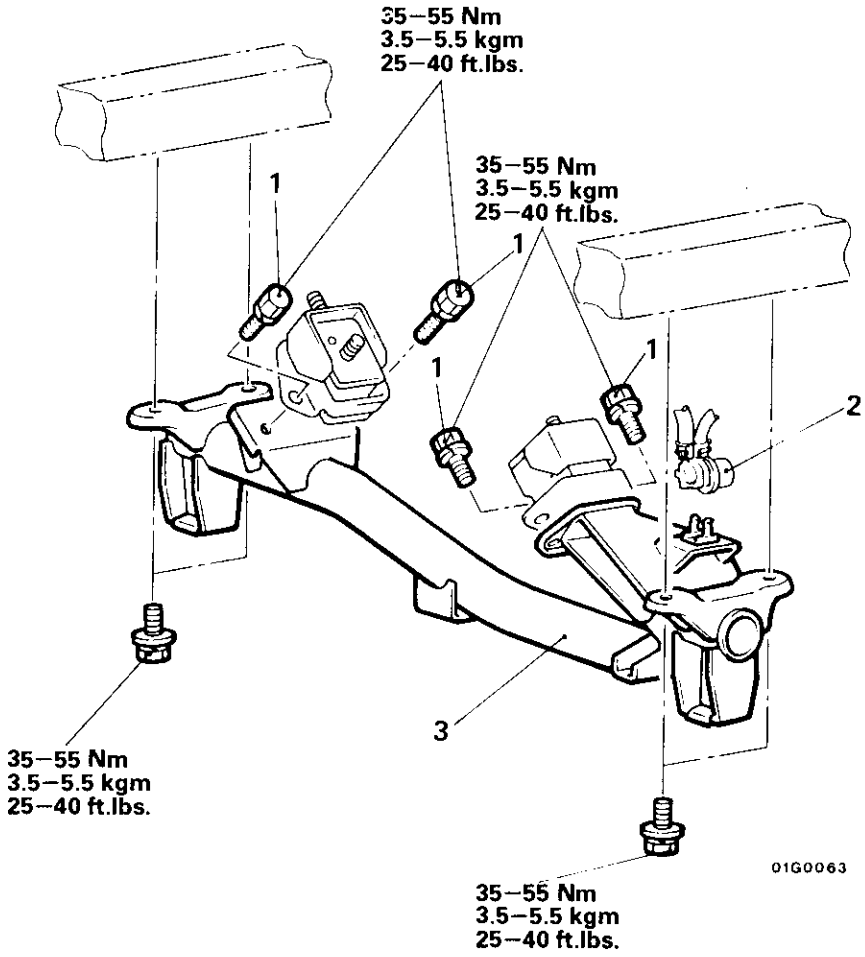
7. CONNECTION AND INSTALLATION OF SHIFT CONTROL CABLE AND TRANSMISSION

Attach the shift control cable ends with the markings at the pin connections facing outwards. Attach cables in so that the boots are not twisted.

ENGINE MOUNTING CROSSMEMBER

E32IA--

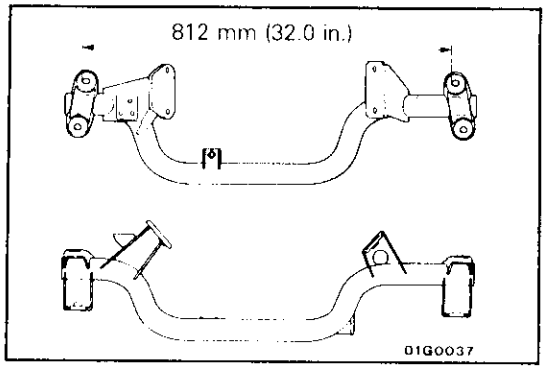
REMOVAL AND INSTALLATION



Removal steps

1. Bolts
2. Connection of fuel filter
◆◆ 3. Engine mounting crossmember

NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆ : Refer to "Service Points of Removal".



SERVICE POINTS OF REMOVAL

E32IBAA

3. REMOVAL OF ENGINE MOUNTING CROSSMEMBER

Firmly support oil pan with jacks and battens. Remove engine mounting crossmember.

Caution
Do not raise the engine too much, as this may damage hoses and cables.

INSPECTION

E32ICAA

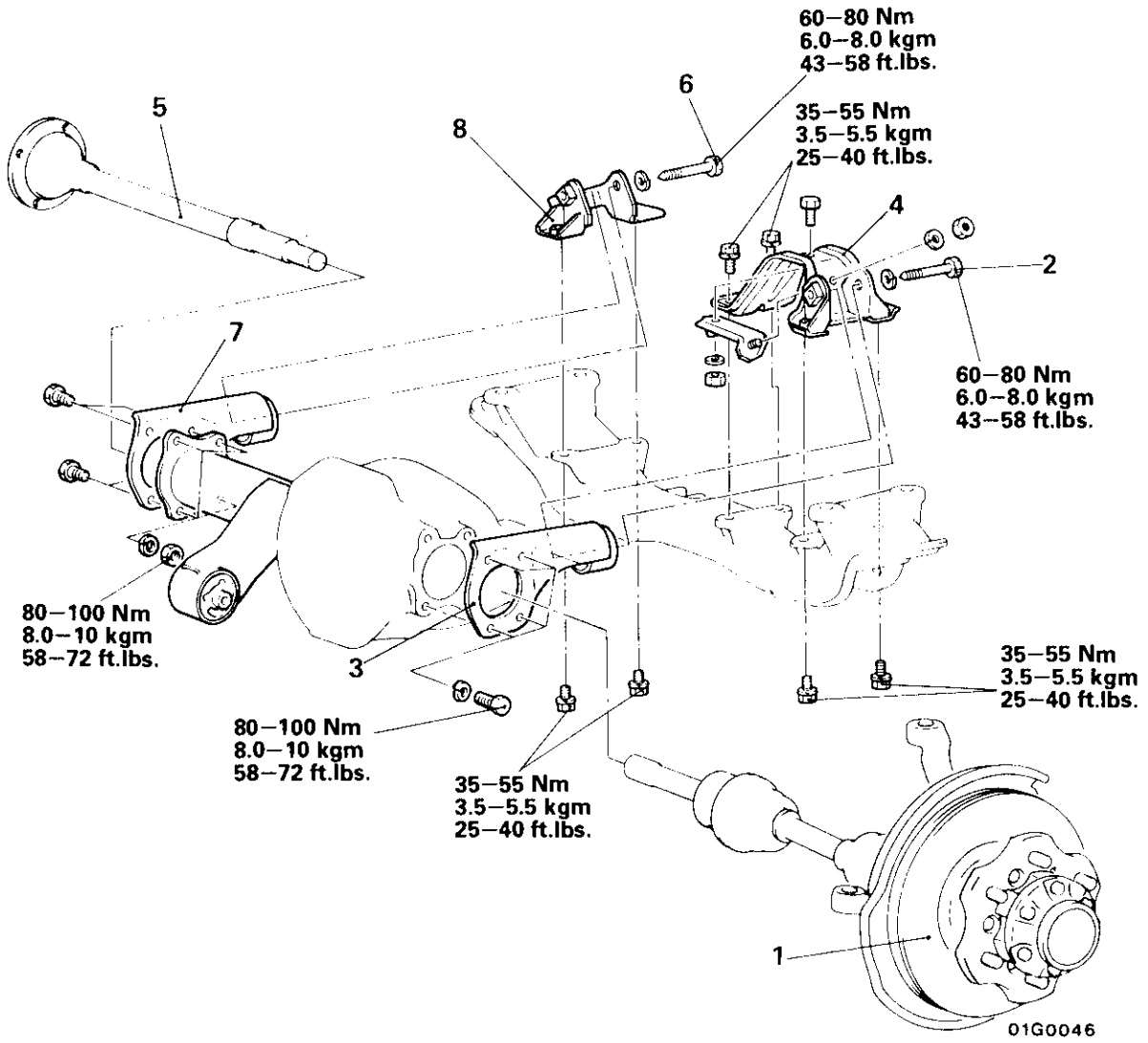
- Check the crossmember for cracks or damage.
- Check the crossmember as illustrated for dimensions.

PWWE8608

FRONT DIFFERENTIAL MOUNTING

REMOVAL AND INSTALLATION

E32LA--



Removal steps

◆◆ ▶◀ 1. Front hub and left drive shaft assembly
2. Bolt
3. Left differential mounting bracket
4. Stopper bracket assembly
◆◆ ▶◀ 5. Inner shaft assembly
◆◆ 6. Bolt
7. Right differential mounting bracket
8. Bracket assembly

NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆ : Refer to "Service Points of Removal".
(3) ▶◀ : Refer to "Service Points of Installation".

SERVICE POINTS OF REMOVAL E32LBAB

1. REMOVAL OF FRONT HUB AND LEFT DRIVE SHAFT ASSEMBLY

Refer to GROUP 26 FRONT AXLE (4WD)–Drive Shaft.

5. REMOVAL OF INNER SHAFT

Refer to GROUP 26 FRONT AXLE (4WD)–Inner Shaft.

6. REMOVAL OF BOLT

Support the front differential with a jack and withdraw the bolt.

INSPECTION E32LCAB

- Check differential mounting bracket for deformation and damage.
- Check insulators for cracks and damages.
- Check stopper bracket for deformation and damage.

SERVICE POINTS OF INSTALLATION E32LDAA

5. INSTALLATION OF INNER SHAFT

Refer to GROUP 26 FRONT AXLE (4WD)–Inner Shaft.

Caution
Use a new circlip for the inner shaft tip.

1. INSTALLATION OF FRONT HUB AND LEFT DRIVE SHAFT ASSEMBLY

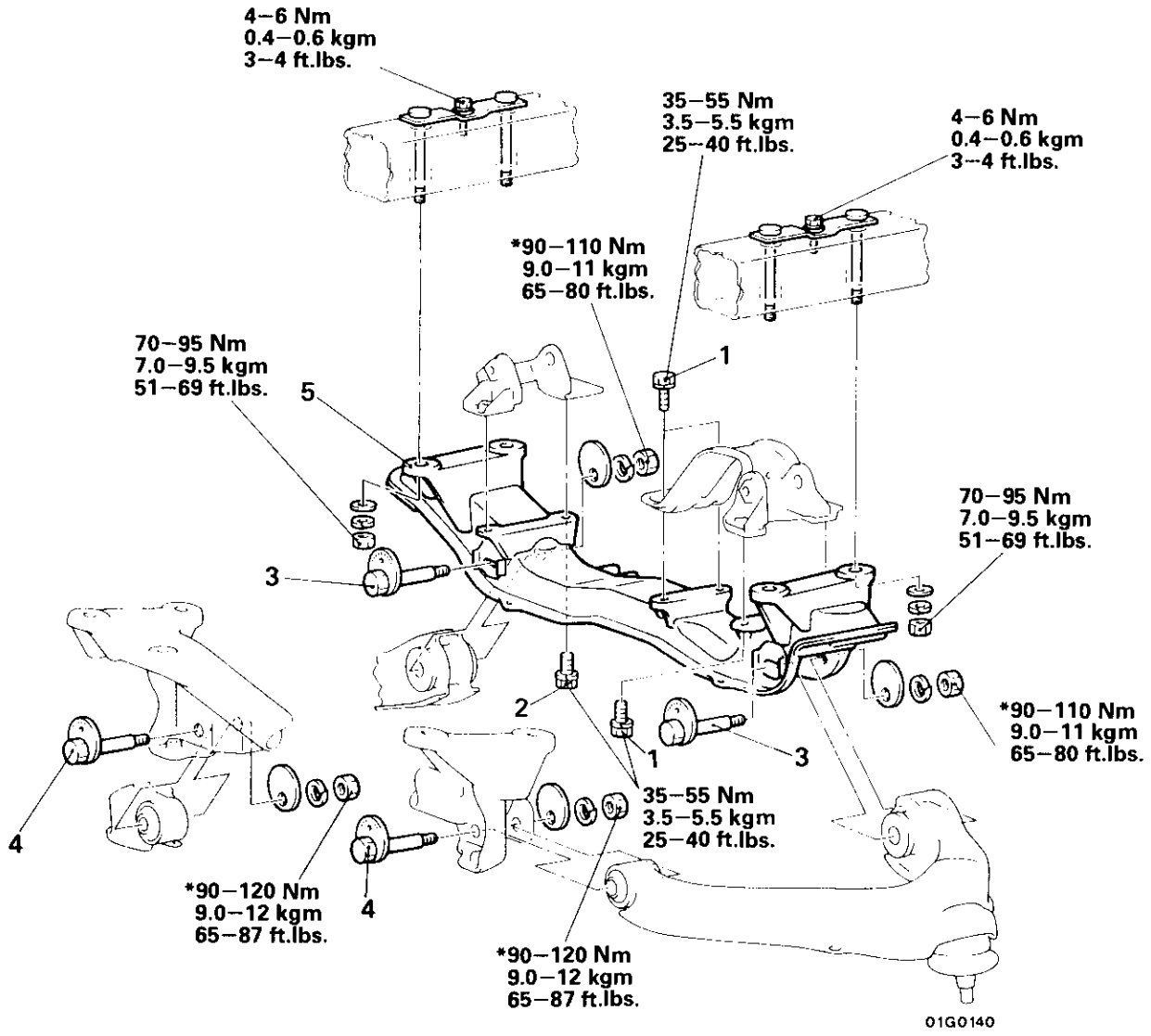
Refer to GROUP 26 FRONT AXLE (4WD)–Drive Shaft.

Caution
Use a new circlip for the drive shaft tip.

FRONT SUSPENSION CROSSMEMBER

REMOVAL AND INSTALLATION

E32PA--

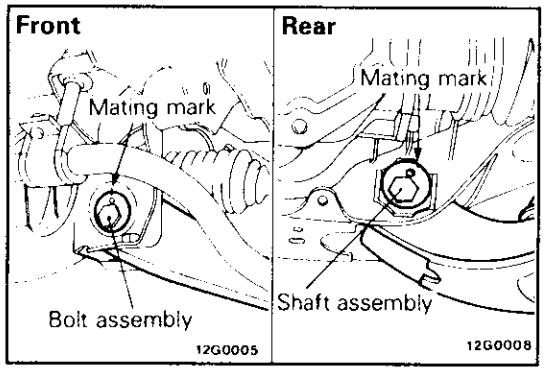


Removal steps

1. Bolts
2. Bolts
3. Shaft assembly
4. Bolt assembly
5. Front suspension crossmember

NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆ : Refer to "Service Points of Removal".
(3) ◆◆ : Refer to "Service Points of Installation".
(4) * : Must be tighten while vehicle is unladen.

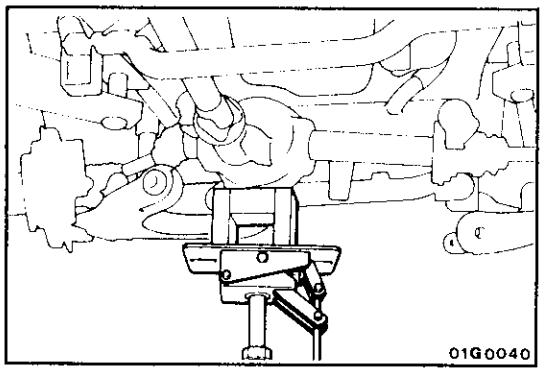
Post-installation Operation
- Inspection of wheel alignment [Refer to GROUP 33 FRONT SUSPENSION (4WD)– Service Adjustment Procedures.]



SERVICE POINTS OF REMOVAL E32PBAG

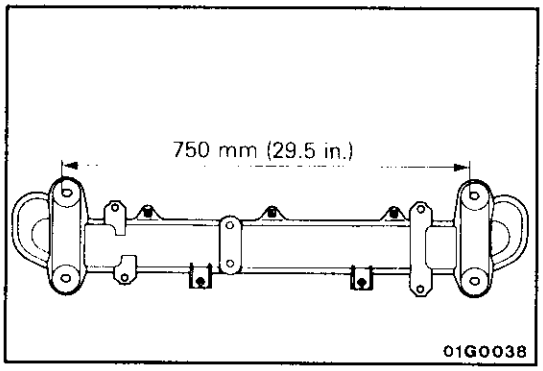
3. REMOVAL OF SHAFT ASSEMBLY/4. BOLT ASSEMBLY

Put mating marks on the shaft assembly, bolt assembly and crossmember.



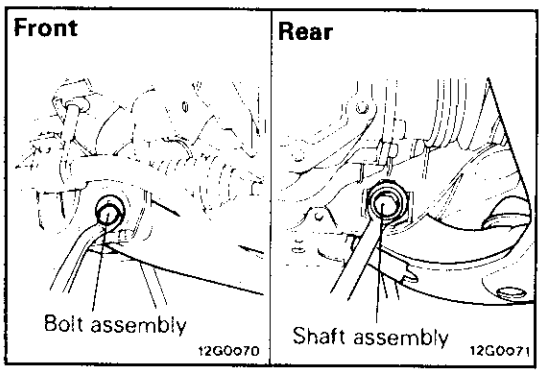
5. REMOVAL OF FRONT SUSPENSION CROSSMEMBER

Support the front differential assembly with a jack and remove the front suspension crossmember.



INSPECTION E32PCAF

- Check the crossmember for cracks or damage.
- Check the crossmember for dimensions as illustrated.



SERVICE POINTS OF INSTALLATION E32PDAC

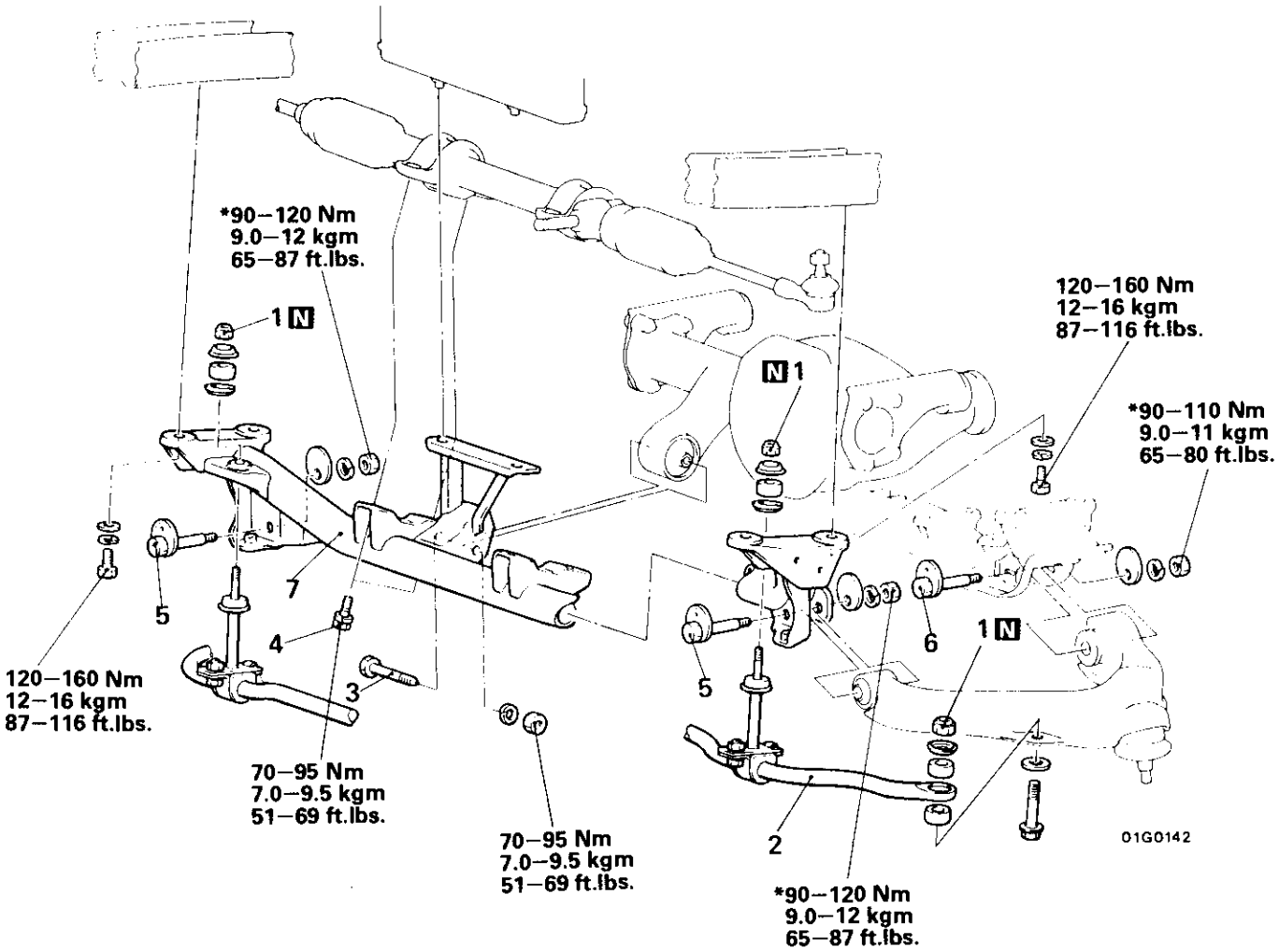
4. INSTALLATION OF BOLT ASSEMBLY/3. SHAFT ASSEMBLY

(1) Align the mating marks on the bolt assembly and shaft assembly to that of crossmember, and temporarily fix the lower arm nut.
(2) Fully tighten the lower arm nut with the vehicle in the unladen condition.

GEAR MOUNTING CROSSMEMBER

REMOVAL AND INSTALLATION

E32NA--

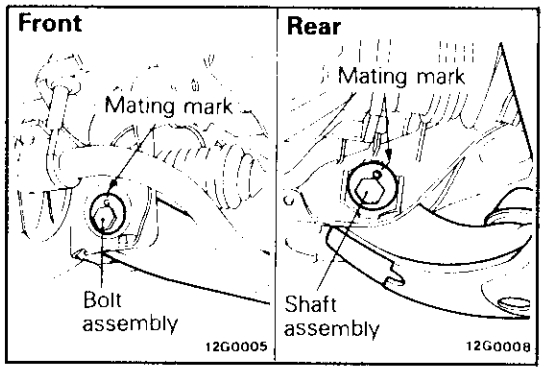


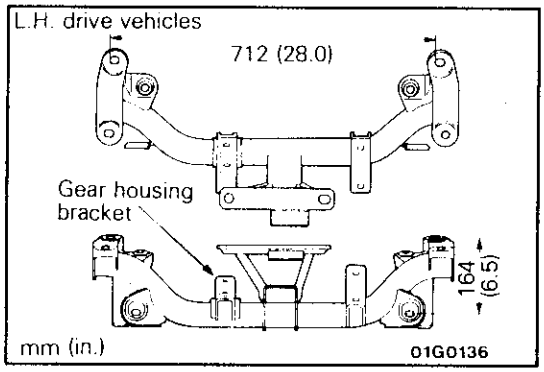
Removal steps

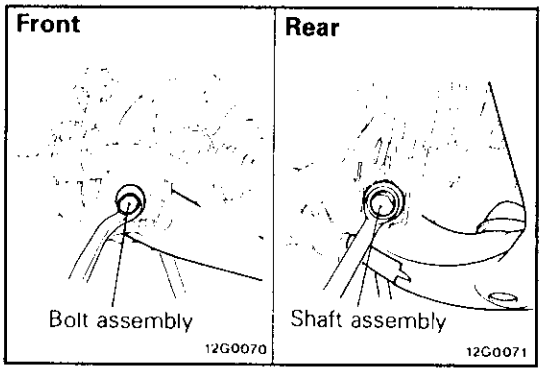
- ◆◆ 1. Self-locking nut
- 2. Stabilizer bar
- 3. Bolt
- 4. Bolts
- ◆◆◆◆ 5. Bolt assembly
- ◆◆◆◆ 6. Shaft assembly
- 7. Gear mounting crossmember

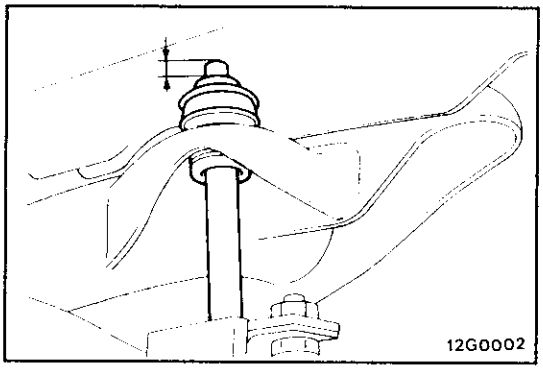
NOTE
(1) Reverse the removal procedures to reinstall.
(2) ◆◆ : Refer to "Service Points of Removal".
(3) ◆◆ : Refer to "Service Points of Installation".
(4) N : Non-reusable parts
(5) * Must be tighten while vehicle is unladen.

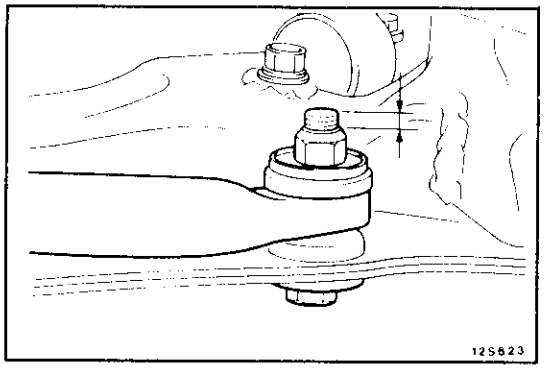
Post-installation Operation
- Inspection of wheel alignment
  [Refer to GROUP 33 FRONT SUSPENSION (4WD) – Service Adjustment Procedures.]











SERVICE POINTS OF REMOVAL E32NBAA

5. REMOVAL OF BOLT ASSEMBLY/6. SHAFT ASSEMBLY

Put the mating marks on the bolt assembly, shaft assembly and crossmember.

INSPECTION E32NCAA

- Check the crossmember for cracks or damage.
- Check the crossmembers for dimensions as illustrated.

NOTE
For the gear mounting crossmember of right hand steering vehicles, the position of the gear housing bracket is reversed from that of left hand steering vehicles.

SERVICE POINTS OF INSTALLATION E32NDAA

6. INSTALLATION OF SHAFT ASSEMBLY/5. BOLT ASSEMBLY

(1) Align the mating marks on the bolt assembly and shaft assembly to that of crossmember, and temporarily fix the lower arm nut.
(2) Fully tighten the lower arm nut with the vehicle in the unladen condition.

1. TIGHTENING SELF-LOCKING NUTS

Fasten the self-locking nut to the position at which the dimension given in the figure takes the standard value.

At gear mounting crossmember
Standard value: 4.5–6.5 mm (0.18–0.26 in.)

At lower arm
Standard velue: 8–10 mm (0.31–0.39 in.)