GENERAL

CONTENTS

MODELS

<LANCER EVOLUTION-IV>

Model code	Class code	Model year	Grade	Engine model	Transmission model	Fuel supply system
E-CN9A	SNDF	’97	RS	4G63 (2,000-DOHC – 16 valves-intercooler turbo)	W5M51 (4WD-5M/T)	Electronically controlled fuel injection (MPI)
	SRGF	’97	GSR			

<LANCER EVOLUTION-V>

Model code	Class code	Model year	Grade	Engine model	Transmission model	Fuel supply system
GF-CP9A	SNDF	’98	EVOLUTION-V RS	4G63 (2,000-DOHC – 16 valves-intercooler turbo)	W5M51 (4WD-5M/T)	MPI
	SNGF	’98	EVOLUTION-V GSR			

Applicable serial numbers

E-CN9A: CN9A – 0000001 ∽
GF-CP9A: CP9A – 0000001 ∽

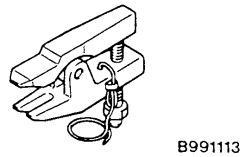
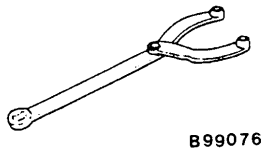
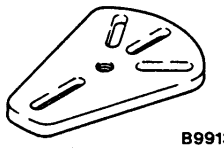
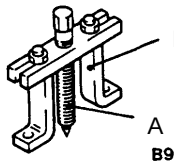
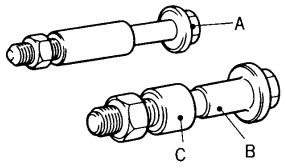
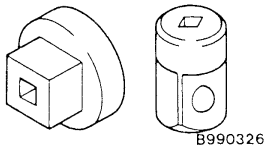
FRONT AXLE

CONTENTS

SERVICE SPECIFICATIONS

Items	Limit
Hub axial play mm	0.05
Hub rotation starting torque Nm {kgf·m}	1.8 {1.8}

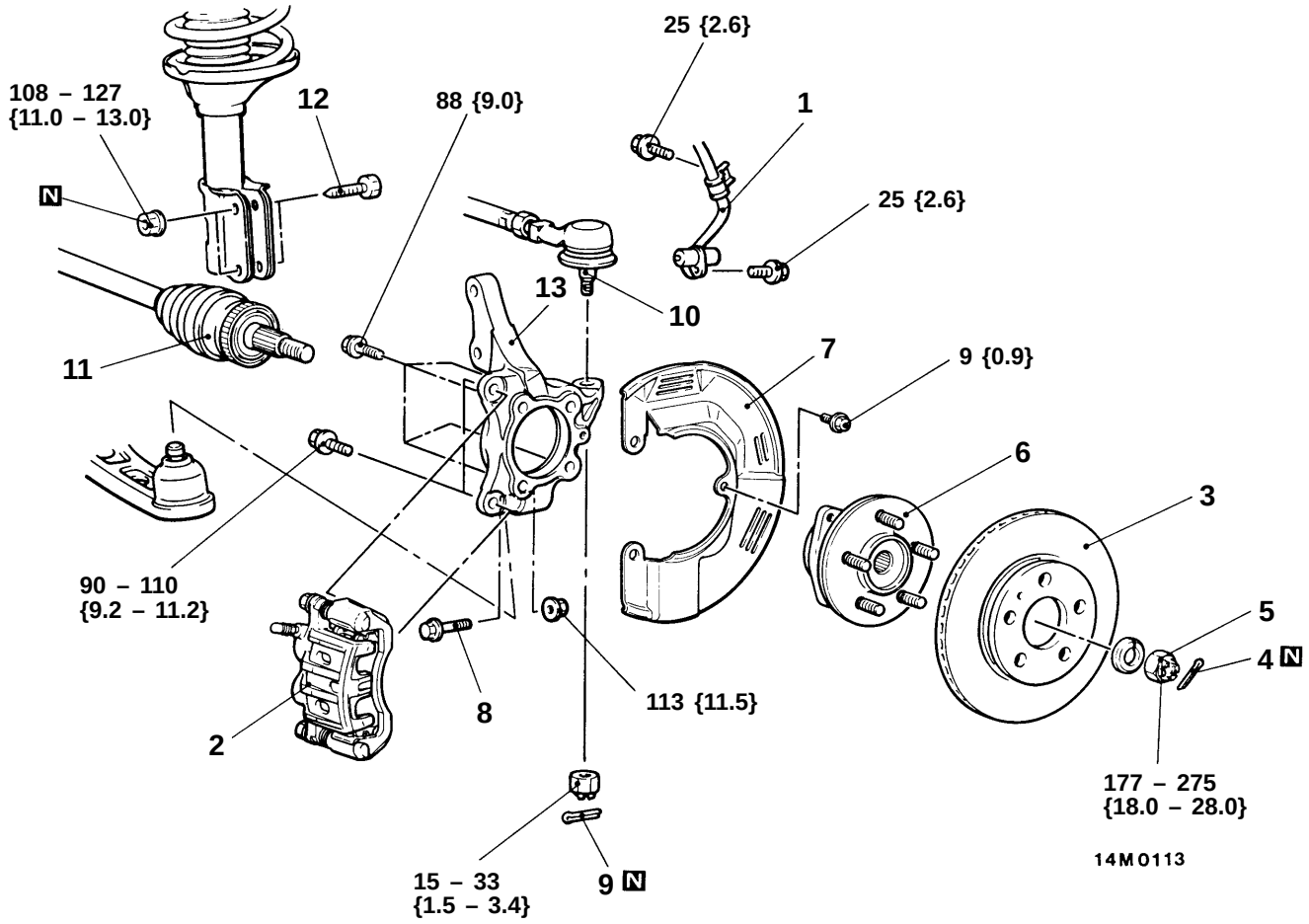
SPECIAL TOOLS

Tool	Number	Name	Use
 B991113	MB990635 or MB991113	Steering linkage puller	Ball joint disconnection
 B990767	MB990767	End holder	Fixing of hub
 B991354	MB991354	Puller body	Removal of drive shaft
 B990241	MB990241 A: MB990242 B: MB990244	Axle shaft puller A: Puller shaft B: Puller bar	
	A: MB991017 B: MB990998 C: MB991000	A, B: Front hub remover & installer C: Spacer	• Temporary fixing of unit bearing • Measurement of hub rotation starting torque • Measurement of hub axial play Use MB991000 (component of MB990998) for the spacer.
 B990326	MB990326	Preload socket	Measurement of hub rotation starting torque

AXLE HUB AND KNUCKLE

REMOVAL AND INSTALLATION

Post-installation Operation
- Check the Dust Cover for Cracks or Damage by Pushing it with Finger.



Unit: Nm {kgf·m}

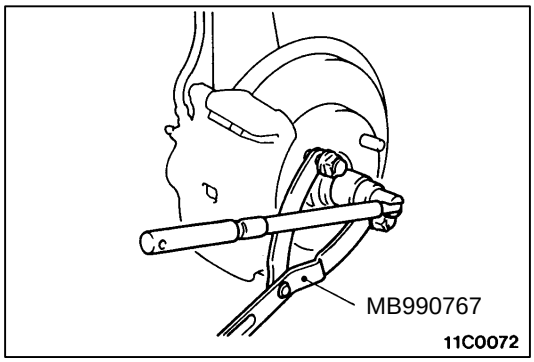
Removal steps

1. Front speed sensor <Vehicles with AYC>
◀A▶ 2. Caliper assembly
3. Brake disc
4. Split pin
◀B▶ ▶A◀ 5. Drive shaft nut
6. Front hub assembly
7. Dust shield
8. Connection for lower arm ball joint
9. Split pin
◀C▶ 10. Connection for tie rod end
◀D▶ 11. Front drive shaft
12. Front strut mounting bolt
13. Knuckle

Caution

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

(2) For vehicles with AYC, be careful not to damage the rotors installed to B.J. outer race during removal and installation of the drive shaft.



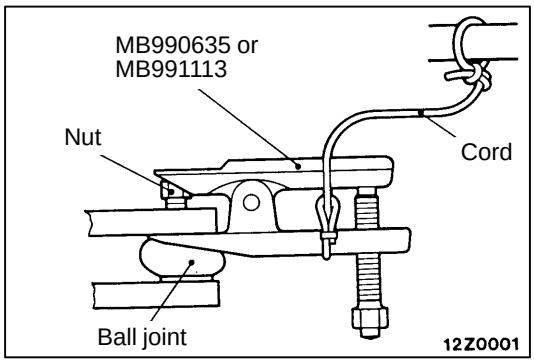
REMOVAL SERVICE POINTS

◀A▶ CALIPER ASSEMBLY REMOVAL

Secure the removed caliper assembly with wire, so that it does not fall.

◀B▶ DRIVE SHAFT NUT REMOVAL

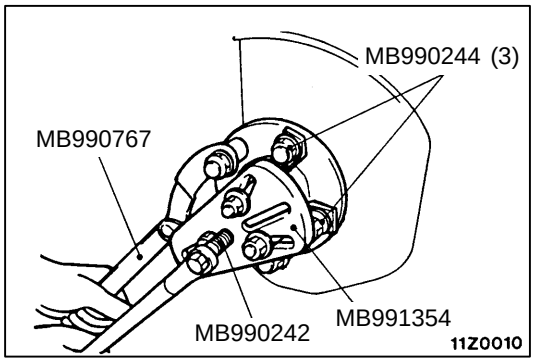
Caution
Do not apply the vehicle weight to the wheel bearing while loosening the drive shaft nut.



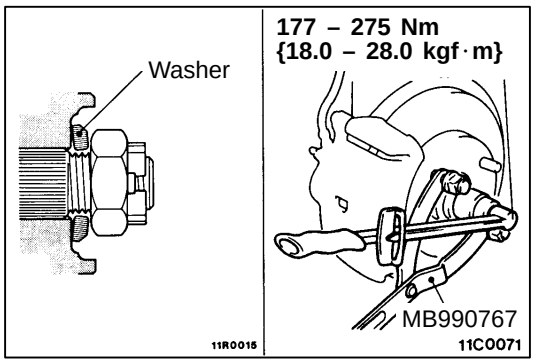
◀C▶ TIE ROD END DISCONNECTION

Use the special tool to disconnect the ball joint.

Caution
(1) Use the special tool to loosen the nut only; do not remove it from the ball joint.
(2) Tie the special tool with a cord not to let it fall off.



◀D▶ DRIVE SHAFT REMOVAL



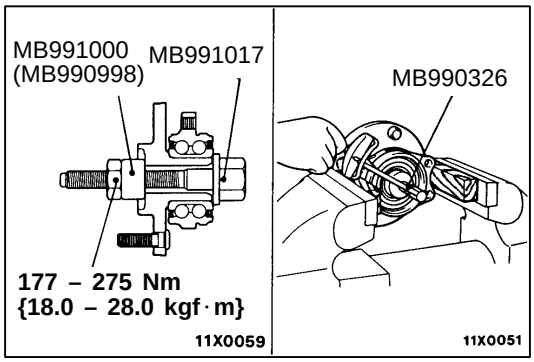
INSTALLATION SERVICE POINT

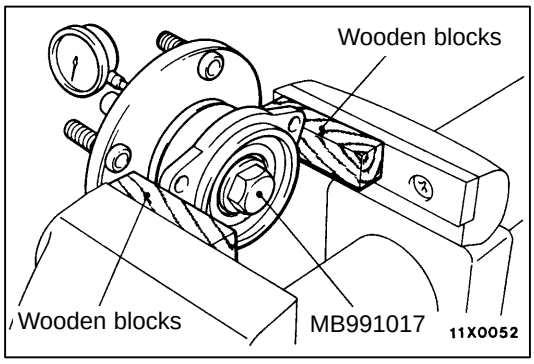
▶A◀ DRIVE SHAFT NUT INSTALLATION

(1) Install the drive shaft washer in the specified direction.
(2) Using the special tool, tighten the drive shaft nut.

Caution
Before securely tightening the drive shaft nuts, make sure there is no load on the wheel bearings.

(3) If the position of the split pin holes does not match, tighten the nut up to the first matching holes.
Install the split pin and bend it securely.





INSPECTION

1. HUB ROTATION STARTING TORQUE CHECK

(1) Install the special tool to the front hub assembly and tighten the nut to the specified torque.

(2) Use the special tool to measure the hub rotation starting torque.

Limit: 1.8 Nm {18.0 kgf·cm}

(3) The hub rotation starting torque should be within the limit value range, and there should be no engagement or feeling of roughness.

2. HUB AXIAL PLAY CHECK

(1) Measure the hub play in the axial direction.

Limit: 0.05 mm

NOTE
Measure the hub play while clamping the hub in a vice with wooden blocks against the bearing section.

(2) If the limit value of hub axial play cannot be obtained with the nut tightened to the specified torque (177 to 275 Nm {18.0 to 28.0 kgf·m}), replace the front hub assembly.

REAR AXLE

CONTENTS

SERVICE SPECIFICATIONS

<Vehicles with AYC>

Items	Standard value	Limit
Rear axle total backlash mm	–	5
Pressure generated by hydraulic unit MPa {kgf/cm^2}	0 – 1.6 {10.0 – 16.0}	–
Wheel bearing axial play mm	–	0.05
Wheel bearing rotation starting torque Nm {kgf·cm}	–	1.0 {10.5} or less

<Vehicles without AYC>

Items		Standard value	Limit
Right-to-left difference in combined thickness of friction plate and friction disc mm		0 – 0.05	–
Clearance between spring plate and differential case mm		0.06 – 0.25	–
LSD differential torque Nm {kgf·m}	When new clutch plate is installed	5 – 19 {0.5 – 1.9}	–
	When existing clutch plate is installed	2 – 19 {0.2 – 1.9}	–
Distortion of friction plate and friction disc mm		–	0.08
Difference in thickness between friction plate, friction disc, and spring plate mm		–	0.1

LUBRICANT

<Vehicles with AYC>

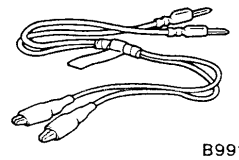
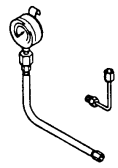
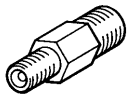
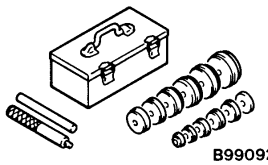
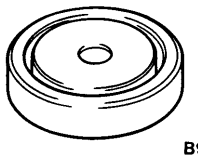
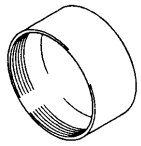
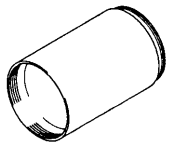
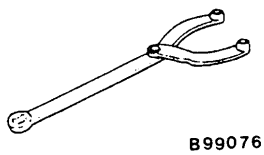
Items			Specified lubricant	Capacity
Gear oil	Torque transfer differential	Differential	MITSUBISHI GENUINE DIA QUEEN SUPER HYPOID GEAR OIL (GL-5)	0.41 ± 0.02 dm^3 {0.41 ± 0.02 ℓ}
		Torque transfer mechanism	MITSUBISHI GENUINE DIA QUEEN AYC FLUID	$0.70\ ^{+0}_{-0.05}$ dm^3 {$0.70\ ^{+0}_{-0.05}$ ℓ}
Hydraulic piping fluid			MITSUBISHI GENUINE DIA QUEEN ATF-SPII	1 dm^3 {1 ℓ}
Torque transfer mechanism oil seal lips			Vaseline	As required

SEALANT

<Vehicles with AYC>

Items	Specified sealant
Torque transfer differential vent plug	Semi-drying sealant: THREEBOND 1281B (460 g)
Torque transfer mechanism cover	

SPECIAL TOOLS

Tool	Number	Name	Use
 B991529	MB991529	Diagnosis code check harness	Inspection of AYC (diagnosis display by AYC warning lamp)
	MD998330 (MD998331)	Oil pressure gauge (2,942 kPa {30 kgf/cm^2})	Hydraulic pressure measurement <vehicles with AYC>
 B991705	MB991705	Hose adapter	
 B990925	MB990925	Bearing & oil seal installer set	Pressfitting of oil seal <differential>
 B991115	MB991115	Oil seal installer	Pressfitting of oil seal <differential> (used in combination with MB990938)
	MD998812	Installer cap	Pressfitting of oil seal <torque transfer mechanism of vehicles with AYC>
	MD998813	Installer 100	
	MD998829	Installer adapter (60)	
 B990767	MB990767	End yoke holder	Fixing of hub