SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS
OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

SERVICE BULLETIN	**No.:** MSB-98E00-006	
	Date: 1998-06-15	**<Model>** GALANT (EA0) / **<M/Y>** 98-10
Subject: MODEL YEAR CHANGES FOR '98 GALANT		
Group: GENERAL	**Draftno:** 97-JY-035	
INFORMATION	**OVERSEAS SERVICE DEPT**	R. USAMI - MANAGER QUALITY INFORMATION ANALYSIS

1. Description:

This Service Bulletin informs you of the applicable service procedures to be followed with the year model changes for 1998 Galant.

2. Applicable Manuals:

Manual	Pub. No.	Language	Page(s)
'97 GALANT Workshop Manual Chassis	PWDE9611	(English)	
	PWDS9612	(Spanish)	
	PWDF9613	(French)	
	PWDG9614	(German)	
	PWDD9615	(Dutch)	
	PWDW9616	(Swedish)	

NOTE:
This Service Bulletin is a revision of the previous S/B MSB-97E00-005 (dated November 30, 1997, only issued in the English language) and therefore supersedes the previous one.

3. Effective Date:

From the 1998 model

4. Details:

GROUP 00
GENERAL

VEHICLE IDENTIFICATION

MODELS

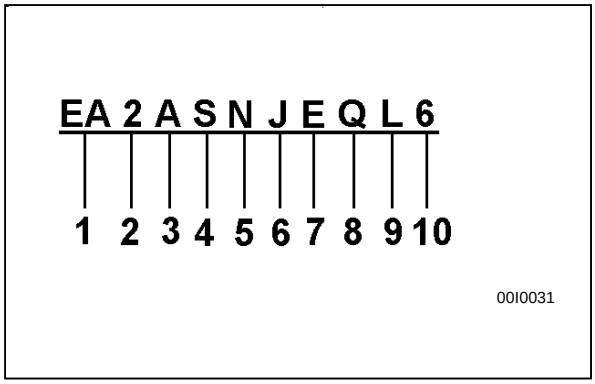
<SEDAN>

Model code		Engine model	Transmission model	Fuel supply system
EA2A	SNJEQL6	4G63-SOHC (1,997 m*l*)	F5M42 (2WD-5M/T)	MPI
	SNHEQL6			
	SRHEQL6		F4A42 (2WD-4A/T)	
EA5A	SNGEQL6	6A13-SOHC (2,497 m*l*)	F5M42 (2WD-5M/T)	MPI
	SRGEQL6		F4A42 (2WD-4A/T)	
EA6A	SNHFQL6	4D68-SOHC (1,998 m*l*)	F5M42 (2WD-5M/T)	Electronically controlled injection pump
EA2A	SNJEQL6C	4G63-SOHC (1,997 m*l*)	F5M42 (2WD-5M/T)	MPI
	SNHEQL6C			
	SRHEQL6C		F4A42 (2WD-4A/T)	
	SNJEDL6C		F5M42 (2WD-5M/T)	
	SNHEDL6C			
	SRHEDL6C		F4A42 (2WD-4A/T)	
EA5A	SNGEQL6C	6A13-SOHC (2,497 m*l*)	F5M42 (2WD-5M/T)	MPI
	SRGEQL6C		F4A42 (2WD-4A/T)	
	SNGEDL6C		F5M42 (2WD-5M/T)	
	SRGEDL6C		F4A42 (2WD-4A/T)	
EA6A	SNHFQL6C	4D68-SOHC (1,998 m*l*)	F5M42 (2WD-5M/T)	Electronically controlled injection pump
EA2A	SNHEQR6	4G63-SOHC (1,997 m*l*)	F5M42 (2WD-5M/T)	MPI
	SRHEQR6		F4A42 (2WD-4A/T)	
EA5A	SNGEQR6	6A13-SOHC (2,497 m*l*)	F5M42 (2WD-5M/T)	MPI
	SRGEQR6		F4A42 (2WD-4A/T)	
EA6A	SNHFQR6	4D68-SOHC (1,998 m*l*)	F5M42 (2WD-5M/T)	Electronically controlled injection pump

<WAGON>

Model code		Engine model	Transmission model	Fuel supply system
EA2W	LNJEQL6	4G63-SOHC (1,997 m*l*)	F5M42 (2WD-5M/T)	MPI
	LNHEQL6			
	LRHEQL6		F4A42 (2WD-4A/T)	
EA5W	LNGEQL6	6A13-SOHC (2,497 m*l*)	F5M42 (2WD-5M/T)	MPI
	LRGEQL6		F4A42 (2WD-4A/T)	
EA6W	LNHFQL6	4D68-SOHC (1,998 m*l*)	F5M42 (2WD-5M/T)	Electronically controlled injection pump
EA2W	LNJEQL6C	4G63-SOHC (1,997 m*l*)	F5M42 (2WD-5M/T)	MPI

Model code		Engine model	Transmission model	Fuel supply system
EA2W	LNHEQL6C	4G63-SOHC (1,997 m*l*)	F5M42 (2WD-5M/T)	MPI
	LRHEQL6C		F4A42 (2WD-4A/T)	
	LNJEDL6C		F5M42 (2WD-5M/T)	
	LNHEDL6C			
	LRHEDL6C		F4A42 (2WD-4A/T)	
EA5W	LNGEQL6C	6A13-SOHC (2,497 m*l*)	F5M42 (2WD-5M/T)	MPI
	LRGEQL6C		F4A42 (2WD-4A/T)	
	LNGEDL6C		F5M42 (2WD-5M/T)	
	LRGEDL6C		F4A42 (2WD-4A/T)	
EA6W	LNHFQL6C	4D68-SOHC (1,998 m*l*)	F5M42 (2WD-5M/T)	Electronically controlled injection pump
EA2W	LNHEQR6	4G63-SOHC (1,997 m*l*)	F5M42 (2WD-5M/T)	MPI
	LRHEQR6		F4A42 (2WD-4A/T)	
EA5W	LNGEQR6	6A13-SOHC (2,497 m*l*)	F5M42 (2WD-5M/T)	MPI
	LRGEQR6		F4A42 (2WD-4A/T)	
EA6W	LNHFQR6	4D68-SOHC (1,998 m*l*)	F5M42 (2WD-5M/T)	Electronically controlled injection pump



MODEL CODE

No.	Items	Contents	
1	Development	EA :	MITSUBISHI GALANT
2	Engine type	2: 5: 6:	2,000 mℓ petrol engine 2,500 mℓ petrol engine 2,000 mℓ diesel engine
3	Sort	A: W:	Passenger car Wagon
4	Body style	S: L:	4-door sedan 4-door station wagon
5	Transmission type	N: R:	5-speed manual transmission 4-speed automatic transmission
6	Trim level	J: H: G:	GLX GLS V6-24
7	Specification engine feature	E: F:	MPI-SOHC Turbocharger with intercooler
8	Exhaust system	Q, D*: None:	With catalytic converter Without catalytic converter
9	Steering Wheel location	L: R:	Left hand Right hand
10	Destination	6: 6C:	For Europe Central Europe

NOTE
*: Q and D indicate the difference in exhaust gas levels.

MAJOR SPECIFICATIONS

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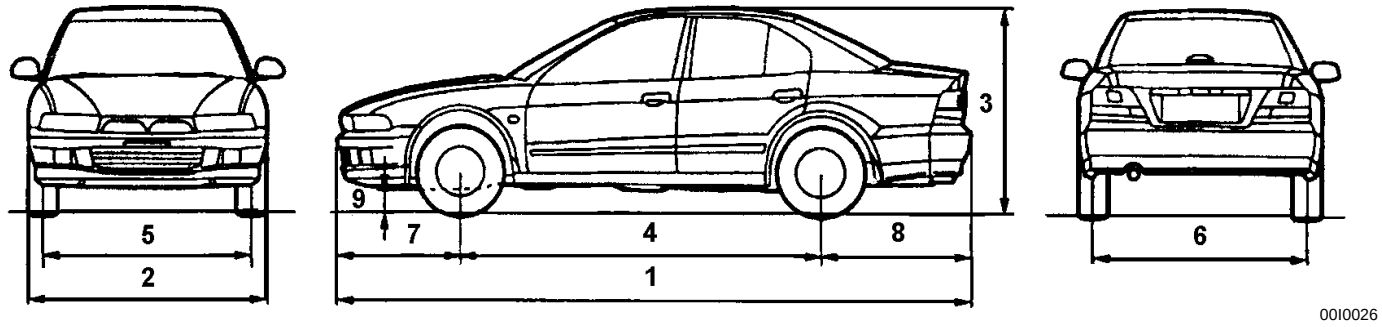
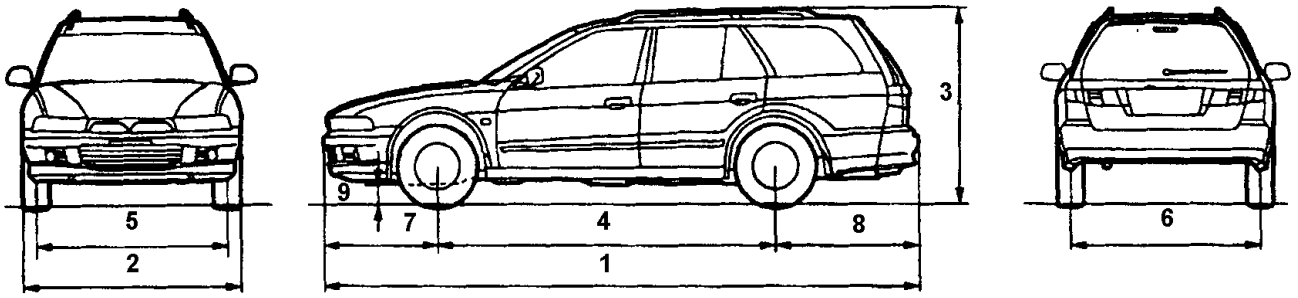


Items			EA2AS NJEQL6, NJEQL6C, NJEDL6C	EA2AS NHEQL6, NHEQL6C, NHEDL6C, NHEQR6	EA2AS RHEQL6, RHEQL6C, RHEDL6C, RHEQR6	EA5AS NGEQL6, NGEQL6C, NGEDL6C, NGEQR6	EA5AS RGEQL6, RGEQL6C, RGEDL6C, RGEQR6	EA6AS NHFQL6, NHFQL6C, NHFQR6
Vehicle dimensions mm	Overall length	1	4,630	4,630	4,630	4,630	4,630	4,630
	Overall width	2	1,740	1,740	1,740	1,740	1,740	1,740
	Overall height (unladen)	3	1,415	1,415	1,415	1,415	1,415	1,415
	Wheelbase	4	2,635	2,635	2,635	2,635	2,635	2,635
	Track-front	5	1,510	1,510	1,510	1,510	1,510	1,510
	Track-rear	6	1,505	1,505	1,505	1,505	1,505	1,505
	Overhang-front	7	930	930	930	930	930	930
	Overhang-rear	8	1,065	1,065	1,065	1,065	1,065	1,065
	Ground-clearance (unladen)	9	150	150	150	150	150	150
Vehicle weight kg	Kerb weight		1,260		1,280	1,290	1,310	1,300
	Max. gross vehicle weight		1,775			1,805		1,795
	Max. axle weight rating-front		925			955		955
	Max. axle weight rating-rear		850			850		840
Seating capacity			5					
Engine	Model No.		4G63			6A13		4D68
	Total displacement ml		1,997			2,498		1,998
Transmission	Model No.		F5M42		F4A42	F5M42	F4A42	F5M42
	Type		5-speed manual		4-speed automatic	5-speed manual	4-speed automatic	5-speed manual
Fuel system	Fuel supply system		Electronically controlled multi-point injection					Electronically controlled fuel injection

<Wagon>



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Items			EA2WL NJEQL6, NJEQL6C, NJEDL6C	EA2WL NHEQL6, NHEQL6C, NHEDL6C, NHEQR6	EA2WL RHEQL6, RHEQL6C, RHEDL6C, RHEQR6	EA5WL NGEQL6, NGEQL6C, NGEDL6C, NGEQR6	EA5WL RGEQL6, RGEQL6C, RGEDL6C, RGEQR6	EA6WL NHFQL6, NHFQL6C, NHFQR6
Vehicle dimensions mm	Overall length	1	4,680	4,680	4,680	4,680	4,680	4,680
	Overall width	2	1,740	1,740	1,740	1,740	1,740	1,740
	Overall height (unladen)	3	1,495	1,495	1,495	1,495	1,495	1,495
	Wheelbase	4	2,635	2,635	2,635	2,635	2,635	2,635
	Track-front	5	1,510	1,510	1,510	1,510	1,510	1,510
	Track-rear	6	1,505	1,505	1,505	1,505	1,505	1,505
	Overhang-front	7	930	930	930	930	930	930
	Overhang-rear	8	1,115	1,115	1,115	1,115	1,115	1,115
	Ground-clearance (unladen)	9	150	150	150	150	150	150
Vehicle weight kg	Kerb weight		1,310	1,310	1,330	1,340	1,360	1,350
	Max. gross vehicle weight		1,830			1,860		1,850
	Max. axle weight rating-front		920			950		
	Max. axle weight rating-rear		910			910		900
Seating capacity			5					
Engine	Model No.		4G63			6A13		4D68
	Total displacement ml		1,997			2,498		1,998
Transmission	Model No.		F5M42		F4A42	F5M42	F4A42	F5M42
	Type		5-speed manual		4-speed automatic	5-speed manual	4-speed automatic	5-speed manual
Fuel system	Fuel supply system		Electronically controlled multi-point injection					Electronically controlled fuel injection

GROUP 22
MANUAL TRANSMISSION

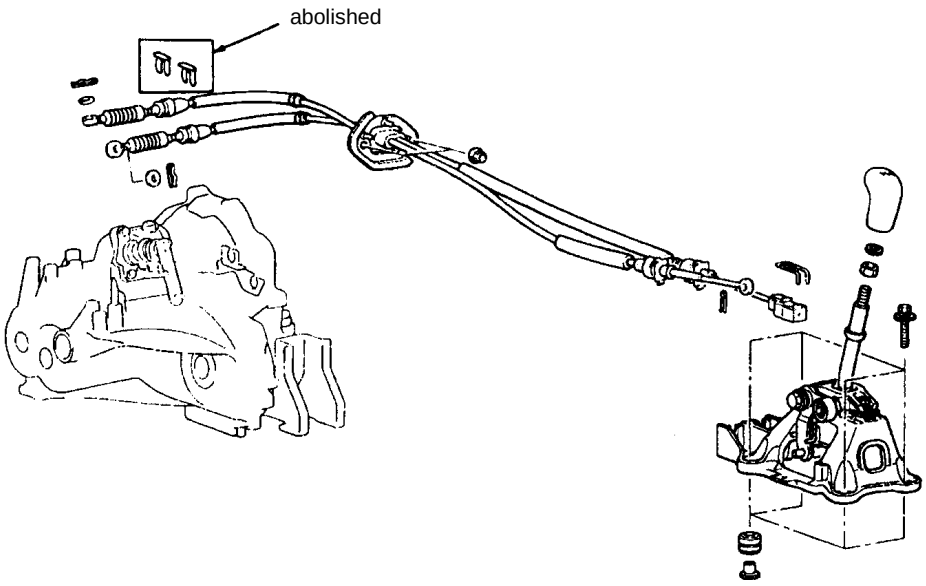
GENERAL

OUTLINE OF CHANGE

- The select and shift cable clips (at the transmission side) have been abolished and the connection has been changed to a one-touch fastening type.

TRANSMISSION CONTROL

REMOVAL AND INSTALLATION



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GROUP 31
WHEEL AND TYRE

GENERAL

OUTLINE OF CHANGE

- The tyre specifications have been changed as shown below according to the addition of option settings and models. (The models other than those described are the same as the conventional models.)

GENERAL INFORMATION

Items		EA2ASNJEQL6, ASNHEQL6, ASRHEQL6, WLNJEQL6, WLNHEQL6, WLRHEQL6	EA2ASNJEQL6C, ASNJEDL6C, ASNHEQL6C, ASRHEQL6C, ASNHEDL6C, ASRHEDL6C, ASNHEQR6, ASRHEQR6, WLNJEQL6C, WLNJEDL6C, WLNHEQL6C, WLRHEQL6C, WLNHEDL6C, WLRHEDL6C, WLNHEQR6, WLRHEQR6	EA5ASNGEQL6C, ASRGEQL6C, ASNGEDL6C, ASRGEDL6C, WLNGEQL6C, WLRGEQL6C, WLNGEDL6C, WLRGEDL6C
Wheel	Type	Steel type Aluminium type*		Aluminium type
	Size	14 x 5 ½JJ 15 x 6JJ*		15 x 6JJ
	Amount of wheel offset mm	46		46
	Pitch circle diameter (P.C.D.) mm	114.3		114.3
Tyre	Size	195/85R14 89V 195/60R15 88V*		205/60R1591V
Spare wheel	Type	Steel type	Steel type Aluminium type*	Steeltype
	Size	15 x 4.0T 14 x 5 ½JJ* 15 x 6 JJ	14 x 5 ½JJ 15 x 6 JJ*	15 x 6 JJ
	Amount of wheel offset mm	46		46
	Pitch circle diameter (P.C.D.) mm	114.3		114.3
Spare tyre	Size	T125/70D15 (High pressure) 195/65R14 89V* 195/60R1588V*	195/65R14 89V 195/60R15 88V*	205/60R15 91V

NOTE
*: Option item

GROUP 33A
FRONT SUSPENSION

GENERAL

OUTLINE OF CHANGE

- The front suspension spring specifications have been changed as follows.

GENERAL INFORMATION

COIL SPRING

Items	Sedan (2000-petrol-powered vehicle - M/T), Wagon (2000-petrol-powered vehicle)	Sedan (except 2000-petrol-powered vehicle - M/T), Wagon (except 2000-petrol-powered vehicle)
Wire diameter x average diameter x free length mm	12 x 70 - 110 x 374	12 x 70 - 110 x 381

GROUP 35A
BASIC BRAKE SYSTEM

GENERAL

OUTLINE OF CHANGE

- The following maintenance service points have been established to correspond to the change to disc brakes for the front brakes. Maintenance service points which are not given below are the same as before.

GENERAL INFORMATION

Items		Specifications
Front brakes	Type	Floating caliper, 1-piston or 2-piston, ventilated disc
	Disc effective dia. X thickness mm	246 x 24, 268 x 26*, 276 x 24*[1]
	Wheel cylinder I.D. mm	57.1, 44.4 x 2*, 42.8 x 2*[1]
	Pad thickness mm	10.0

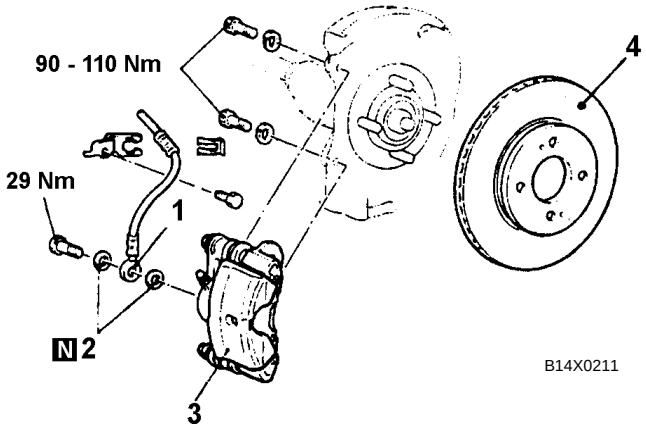
* : 2 piston (2,000 - excluding diesel vehicles <option setting>)
*[1]: 2 piston (2,500)

GENERAL INFORMATION

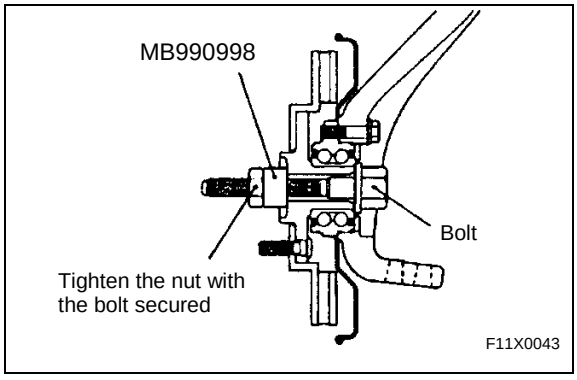
Items		Standard value	Limit
Front disc brake	Pad thickness mm	10.0	2.0
	Disc thickness mm	24.0, 26.0*	22.4, 24.4*
	Disc run-out mm	-	0.06
	Drug force (tangential force of wheel mounting bolts) N	69 or less	-

* : 2 piston (2,000 - excluding diesel vehicles <option setting>)

DISC BRAKE
REMOVAL AND INSTALLATION



Removal steps
1. Brake hose connection
2. Gasket
3. Disc brake assembly
4. Brake disc



INSTALLATION SERVICE POINT

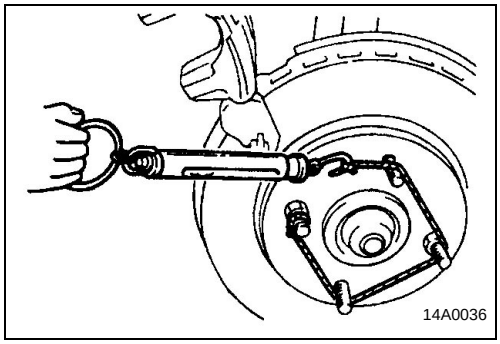
▶A◀ DISK BRAKE ASSEMBLY INSTALLATION

1. In order to measure the brake drag torque after pad installation, measure the rotary sliding resistance of the hub by the following procedure with the pads removed.

(1) Remove the drive shaft.
(Refer to Workshop Manual GROUP 26 - Front Axle.)

(2) Attach the special tool to the front hub assembly as shown in the illustration, and tighten it to the specified torque

Tightening torque: 196 - 255 Nm

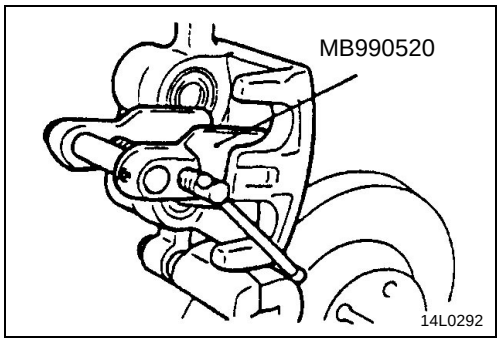


(3) Use a spring balance to measure the rotary-sliding resistance of the hub in the forward direction.

2. After installing the caliper support to the knuckle, install the pad clips and the pads to the caliper support.

Caution

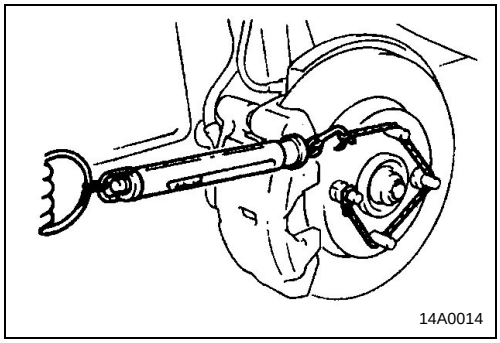
Do not let any oil, grease or other contamination get onto the friction surfaces of the pads and brake discs.



3. Clean piston and insert into cylinder with special tool.
4. Be careful that the piston boot does not become caught when lowering the caliper assembly, and tighten the guide pin to the specified torque.

Tightening torque: 74 Nm

5. Start the engine and then depress the brake pedal 2-3 times.
6. Stop engine.
7. Turn brake disc forward 10 times.

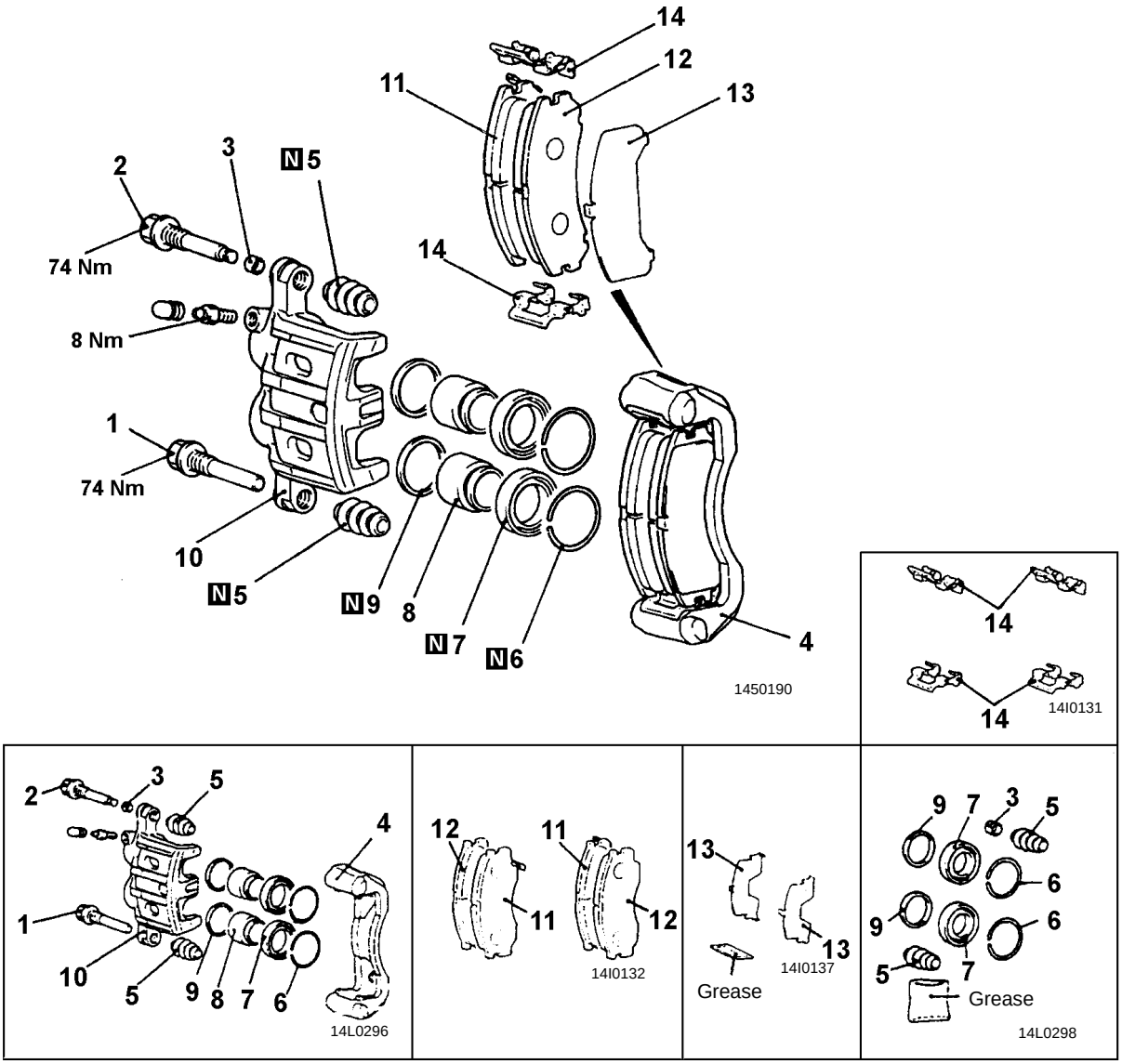


8. Use a spring balance to measure the rotation sliding resistance of the hub in the forward direction.
9. Calculate the drag force of the disc brake (difference between of values measured in item 8 and item 1.)

Standard value 69 N or less

10. If the drag force of the disc brake exceeds the standard value, disassemble piston and clean piston. Check for corrosion or worn piston seal, and check the sliding condition of the lock pin and guide pin.

DISASSEMBLY AND REASSEMBLY



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Caliper assembly disassembly steps

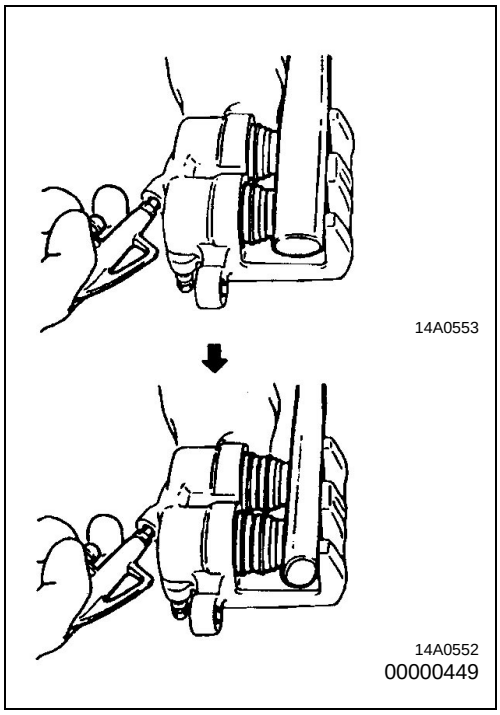
- ▶A◀ 1. Guide pin
- ▶A◀ 2. Lock pin
- 3. Bushing
- 4. Caliper support (pad, clip, shim)
- 5. Boot
- 6. Boot ring
- ◀A▶ 7. Piston boot
- ◀A▶ 8. Piston
- ◀B▶ 9. Piston seal
- 10. Caliper body

Pad assembly disassembly steps

- ▶A◀ 1. Guide pin
- ▶A◀ 2. Lock pin
- 3. Bushing
- 4. Caliper support (pad, clip, shim)
- 11. Pad and wear indicator assembly
- 12. Pad assembly
- 13. Outer shim (coated with rubber)
- 14. Clip

NOTE
Refer to the Workshop Manual for ◀B▶ and ▶A◀ contact points.

DISASSEMBLY SERVICE POINTS
When disassembling the disc brakes, disassemble both sides (left and right) as a set.



▶A◀ DISK BRAKE ASSEMBLY INSTALLATION

Pump in compressed air through the brake hose installation hole and remove the pistons and piston boot.

Caution

When removing the pistons, be sure to use the handle of a plastic hammer and adjust the height of the two pistons while pumping in air slowly so that the pistons protrude evenly.

Do not remove one piston completely before trying to remove the other piston because it will become impossible to remove the second piston.

GROUP 52A
INTERIOR

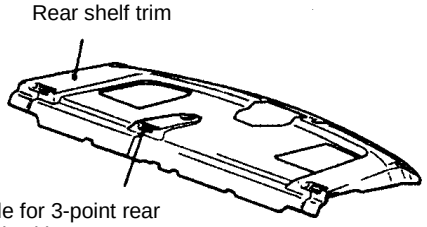
GENERAL

OUTLINE OF CHANGE

- The following maintenance service points have been established to correspond to the adoption of 3-point rear center seat belts with ELR as an option. Maintenance service points which are not given below are the same as before.

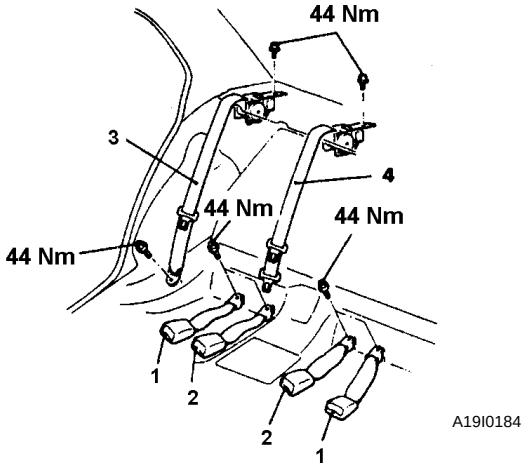
TRIMS

REMOVAL AND INSTALLATION



REAR SEAT BELT

REMOVAL AND INSTALLATION



Removal steps

- Rear seat

▶A◀ 1. Rear center seat belt assembly (floor)
2. Rear seat belt assembly (inner)

- Rear shelf trim

3. Rear seat belt assembly (outer)
4. Rear center seat belt assembly (shelf)

INSTALLATION SERVICE POINT

▶A◀ DISK BRAKE ASSEMBLY INSTALLATION

The left and right rear center seat belts (floor) differ as shown in the illustration below. Check that the belt is correct before installation.