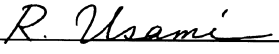




SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS
OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

SERVICE BULLETIN		No.: MSB-97E35-005																																																						
Subject: CHANGE IN LIMIT VALUE FOR FRONT BRAKE DISC RUN-OUT		Date: 1998-05-15	<table border="1"> <thead> <tr> <th><Model></th> <th><M/Y></th> </tr> </thead> <tbody> <tr><td>(EC,EXP) 3000GT (Z10)</td><td>92-10</td></tr> <tr><td>(EC,EXP) COLT (CA0A,CC0A)</td><td>95-10</td></tr> <tr><td>(EC,EXP) L200 (K00)</td><td>95-10</td></tr> <tr><td>(EC,EXP) L300 (P0,P10,P20,P30)</td><td>95-10</td></tr> <tr><td>(EC,EXP) L300(P5T)</td><td>95-10</td></tr> <tr><td>(EC,EXP) LANCER (CB0A,CD0A)</td><td>95-10</td></tr> <tr><td>(EC,EXP) PAJERO (V10,V20,V30,V40)</td><td></td></tr> <tr><td>(EC,EXP)SPACE RUNNER (N10,N20)</td><td></td></tr> <tr><td>(EC,EXP)SPACE WAGON (N30,N40)</td><td></td></tr> </tbody> </table>	<Model>	<M/Y>	(EC,EXP) 3000GT (Z10)	92-10	(EC,EXP) COLT (CA0A,CC0A)	95-10	(EC,EXP) L200 (K00)	95-10	(EC,EXP) L300 (P0,P10,P20,P30)	95-10	(EC,EXP) L300(P5T)	95-10	(EC,EXP) LANCER (CB0A,CD0A)	95-10	(EC,EXP) PAJERO (V10,V20,V30,V40)		(EC,EXP)SPACE RUNNER (N10,N20)		(EC,EXP)SPACE WAGON (N30,N40)																																		
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INFORMATION	OVERSEAS SERVICE DEPT	 R. USAMI - MANAGER QUALITY INFORMATION ANALYSIS																																																						
<p>1. Description: This Service Bulletin informs you of change in the limit value for the front brake disc run-out.</p> <p>2. Applicable Manuals:</p> <table border="1"> <thead> <tr> <th>Manual</th> <th>Pub. No.</th> <th>Language</th> <th>Page(s)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">L200 Workshop Manual</td> <td>PWTE9614-O</td> <td>(English)</td> <td>35-5, 35-15-3</td> </tr> <tr> <td>PWTS8701-O</td> <td>(Spanish)</td> <td>35-5, 35-46</td> </tr> <tr> <td>PWTF9615-O</td> <td>(French)</td> <td>35-5, 35-45</td> </tr> <tr> <td rowspan="6">L300 Workshop Manual</td> <td>PWWE8608-O</td> <td>(English)</td> <td>35-7, 35-22-1</td> </tr> <tr> <td>PWWS8613-O</td> <td>(Spanish)</td> <td>35-6, 35-22-1</td> </tr> <tr> <td>PWWF8612-O</td> <td>(French)</td> <td></td> </tr> <tr> <td>PWWG8609-O</td> <td>(German)</td> <td>35-5, 35-18-1</td> </tr> <tr> <td>PWWD8610-O</td> <td>(Dutch)</td> <td>35-5, 35-20</td> </tr> <tr> <td>PWWW8611-O</td> <td>(Swedish)</td> <td>35-5, 35-18-1</td> </tr> <tr> <td rowspan="2">'95 L300 Workshop Manual</td> <td>PWWE9404</td> <td>(English)</td> <td rowspan="2">35A-4, 35A-16</td> </tr> <tr> <td>PWWG9405</td> <td>(German)</td> </tr> <tr> <td rowspan="6">COLT/LANCER Workshop Manual</td> <td>PWME9117-D</td> <td>(English)</td> <td rowspan="6">35-5, 35-70</td> </tr> <tr> <td>PWMS9118-D</td> <td>(Spanish)</td> </tr> <tr> <td>PWMF9119-D</td> <td>(French)</td> </tr> <tr> <td>PWVG9120-D</td> <td>(German)</td> </tr> <tr> <td>PWMD9121-D</td> <td>(Dutch)</td> </tr> <tr> <td>PWMW9122-D</td> <td>(Swedish)</td> </tr> </tbody> </table>				Manual	Pub. No.	Language	Page(s)	L200 Workshop Manual	PWTE9614-O	(English)	35-5, 35-15-3	PWTS8701-O	(Spanish)	35-5, 35-46	PWTF9615-O	(French)	35-5, 35-45	L300 Workshop Manual	PWWE8608-O	(English)	35-7, 35-22-1	PWWS8613-O	(Spanish)	35-6, 35-22-1	PWWF8612-O	(French)		PWWG8609-O	(German)	35-5, 35-18-1	PWWD8610-O	(Dutch)	35-5, 35-20	PWWW8611-O	(Swedish)	35-5, 35-18-1	'95 L300 Workshop Manual	PWWE9404	(English)	35A-4, 35A-16	PWWG9405	(German)	COLT/LANCER Workshop Manual	PWME9117-D	(English)	35-5, 35-70	PWMS9118-D	(Spanish)	PWMF9119-D	(French)	PWVG9120-D	(German)	PWMD9121-D	(Dutch)	PWMW9122-D	(Swedish)
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MONTERO Workshop Manual	PWJS9087-F	(Spanish)	
PAJERO Workshop Manual	PWJF9088-F	(French)	
	PWJG9089-F	(German)	
	PWJD9090-F	(Dutch)	
	PWJW9091-F	(Swedish)	
3000GT Workshop Manual	PWUE9119-D	(English)	35-3, 35-30
SPACE RUNNER/SPACE WAGON Workshop Manual	PWDE9104-D	(English)	35-5, 35-55-1
	PWDS9105-D	(Spanish)	
	PWDF9106-D	(French)	
	PWDG9107-D	(German)	
	PWDD9108-D	(Dutch)	
	PWDW9109-D	(Swedish)	

3. Effective date:

Applicable vehicle	Limit value		Effective date
	New	Old	
L200	0.06 mm or less	0.10 mm or less	From Jun. 1995
L300	0.06 mm or less	0.10 mm or less	From Jun. 1995
L300 (Truck)	0.06 mm or less	0.07 mm or less	From Jun. 1995
COLT/LANCER	0.06 mm or less	0.07 mm or less	From Feb. 1995
PAJERO/MONTERO	0.06 mm or less	0.10 mm or less	From Jun. 1995
3000GT	0.06 mm or less	0.10 mm or less	From Jan. 1995
SPACE RUNNER/ SPACE WAGON	0.06 mm or less	0.07 mm or less	From Jun. 1995

4. Details:

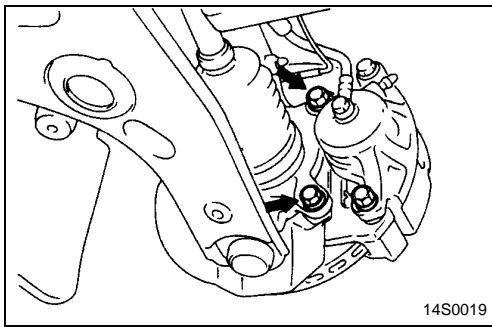
L200 Workshop Manual, Page 3, 4
 L300 Workshop Manual, Page 5, 6
 '95 L300 Workshop Manual, Page 7, 8
 COLT/LANCER Workshop Manual, Page 9, 10
 PAJERO Workshop Manual, Page 11, 12
 3000GT Workshop Manual, Page 13, 14
 SPACE RUNNER/SPACE WAGON Workshop Manual, Page 15, 16

Items	Specifications
Rear disc brake pad thickness	mm (in.) 9.5 (0.37)
Rear disc brake drag force (tangential force of wheel mounting bolts)	N (kg. lbs.) 20 (2, 4.4) or less
Rear brake disc thickness	mm (in.) 10 (0.39)
Booster push rod to master cylinder piston clearance	mm (in.)
8 inch brake booster	0.45 - 0.65 (0.018 - 0.026)
9 inch brake booster	0.6 - 0.8 (0.024 - 0.031)
7 + 8 inch brake booster	0.4 - 0.6 (0.016 - 0.024)
Resistance between speed sensor terminals	
2WD	1.4 - 2.2
4WD	0.8 - 1.2
Resistance between terminals and the body of the speed sensor	k Ω 100 or more
Clearance between rear speed sensor pole piece and rotor	mm (in.) 0.3 - 0.9 (0.012 - 0.035)
Limit	
Left/right proportioning valve output pressure difference	MPa (kg/cm ² , psi) 0.4 (4.57)
Load sensing proportioning valve left and right difference of output fluid pressure	MPa (kg/cm ² , psi)
<Sprit point>	
When spring length is 90.1 mm (3.55 in.):	0.25 (2.5, 35.6)
When spring length is 108.2 mm (4.26 in.):	1.0 (10, 142.2)
<Input fluid pressure set in the following>	
When spring length is 90.1 mm (3.55 in.):	
14 MPa (140 kg/cm ² . 1991.3 psi)	0.4 (4, 56.9)
When spring length is 108.2 mm (4.26 in.):	
14 MPa (140 kg/cm ² . 1991.3 psi)	0.85 (8.5, 120.9)
Pad thickness	mm (in.) 2.0 (0.08)
Front brake disc thickness	mm (in.)
13-inch disc brake	
Solid type	11.4 (0.45)
Ventilated type	16.4 (0.65)
14-inch disc brake	22.4 (0.88)
Front brake disc runout	mm (in.) 0.07 (0.0028) or less
Front hub end play	mm (in.) 0.05 (0.0020)
Rear brake disc thickness	mm (in.) 8.4 (0.33)
Rear brake disc runout	mm (in.) 0.08 (0.0031) or less
Rear brake lining thickness	mm (in.) 1.0 (0.04)
Rear drum inside diameter	mm (in.)
7-inch drum brake	182 (7.2)
8-inch drum brake	2.5 (8.1)
9-inch drum brake	230.6 (9.1)

<New>

0.07 (0.0028) or less < Up to January 1995>
0.06 (0.0024) or less <From February 1995>

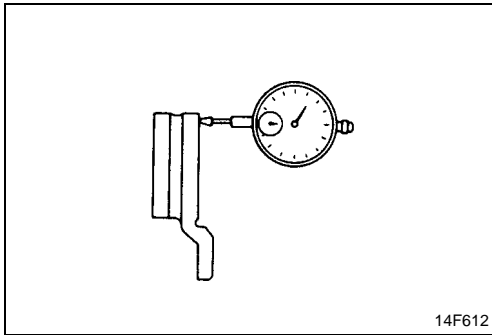
<Old>



RUN-OUT CHECK

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1. Remove the caliper support; then raise the caliper assembly upward and secure by using wire.
2. Inspect the disc surface for grooves, cracks and rust. Clean the disc thoroughly and remove all rust.



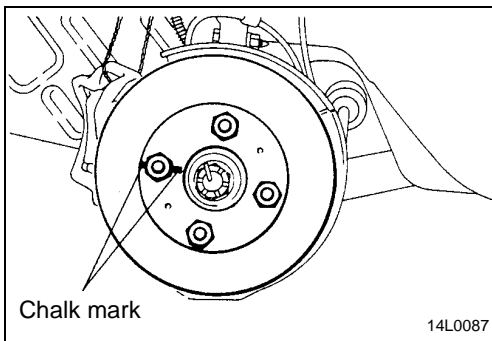
3. Place a dial gauge approximately 5 mm (0.2 in.) from the outer circumference of the brake disc, and measure the run-out of the disc

Limit: 0.07 mm (0.0028 in.) or less <Old>

NOTE

Tighten the nuts in order to secure the disc to the hub. **<New>**

0.07 mm (0.0028 in.) or less < Up to January 1995>
0.06 mm (0.0024 in.) or less <From February 1995>

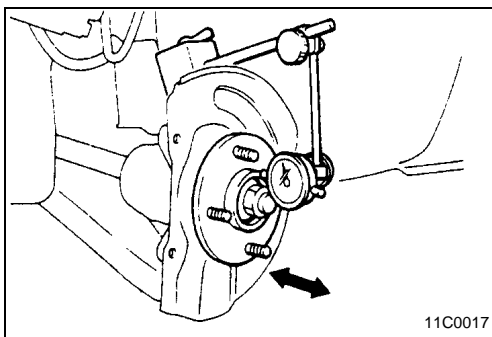


RUN-OUT CORRECTION

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1. If the run-out of the brake disc is equivalent to or exceeds the limit specification, change the phase of the disc and hub, and then measure the run-out again.

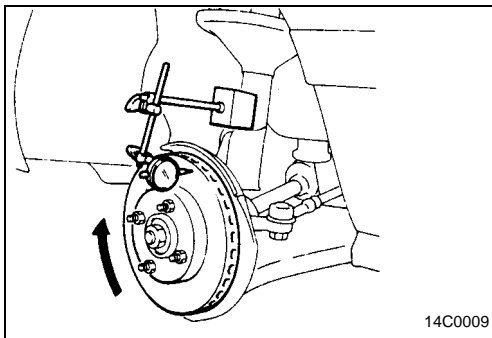
(1) Before removing the brake disc, chalk both sides of the wheel stud on the side at which run-out is greatest.



- (2) Remove the brake disc, and then place a dial gauge as shown in the illustration; then move the hub in the axial direction and measure the play.

Limit: 0.05 mm (0.0020 in.)

If the play is equivalent to or exceeds the limit, disassemble the hub knuckle and check each part.



- (3) If the play does not exceed the limit specification, install the brake disc at a position 180° away from the chalk mark, and then check the run-out of the brake disc once again.
2. If the run-out cannot be corrected by changing the phase of the brake disc, replace the disc or turn rotor with on the car type brake lathe ("MAD, DL-8700PF or equivalent).