

Competitor Instructions – Automobile Technology

Competitor Name	Competitor No	Task
		D

Competitor Instructions

Task D	Brake System
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Familiarization Time	5 minutes
Task Duration	55 minutes
Total Time	60 minutes

Marking Summary

Section		Possible Mark
1.	Preparing	150
2.	Servicing the Service Brake Mechanical System	400
3.	Parking Brake Adjusting	150
4.	Measuring the Mechanical	300
Task Total		1000

You are required to

- Observe occupational health & safety standards
- Only ask necessary questions
- Not speak to the public while competing
- Comply with Experts instructions
- Ensure Competitor Number on all forms
- Use appropriate tools and procedures
- Complete all instructions on

Remark: Daihatsu/F521RV Taruna FL

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Brake System Instruction

1.	Perform service work on the brake mechanical system
2.	Rectify the cause of excessive parking brake pedal travel distance
3.	Fill in the mechanical section report sheet as your work
4.	Use safe and clean working practice at all times

Competitor Report Sheet – Automobile Technology

Competitor Name	Competitor No	Task
		D

Report Sheet

Task D Measuring Mechanical Brake System

No.	Items	Performance/ Condition of Components	
		Good	Bad
1.	Brake pad Thickness Thickness Spec. Thickness Front Left _____ mm _____ mm		
2.	Disc Thickness Thickness Spec. Thickness Front Left _____ mm _____ mm		
3.	Disc Run out Thickness Spec. Thickness Front Left _____ mm _____ mm		
4.	Brake shoe Thickness Thickness Spec. Thickness Front Left _____ mm _____ mm		
5.	Drum Diameter Diameter Spec. Diameter Rear Left _____ mm _____ mm		

Form 5 – Automobile Technology

Competitor Name	Competitor No	Task	Marking Scale
		D	Brake System

Marking Summary

Section		Possible Mark	Actual Mark
1.	Preparing	150	
2.	Servicing the Service Brake Mechanical System	400	
3.	Parking Brake Adjusting	150	
4.	Measuring the Mechanical	300	
Task Total		1000	

Time Keeping

Familiarization		Competition		Breaks			
Start		Start		Start			
Stop		Stop		Stop			

Experts Signatures

1	2	3	4

Competitor Name	Competitor No	Task	Marking Scale
		D	Brake System

1.	Preparation	Max	Actual	Comments
1.1	Check all equipments	10		
1.2	Check all instructions	10		
1.3	Apply logical working procedure	10		
1.4	Proper tools handling	10		
1.5	Clean up the working area	10		
1.6	Clean up tools and equipment	10		
1.7	Clean up the test models	10		
1.8	Jacks, pads used	10		
1.9	Jacks, pads positioned correctly	10		
1.10	Parking brake applied at end	10		
1.11	Choke tires	10		
1.12	Use fender covers	10		
1.13	Use seat covers	10		
1.14	Use steering wheel cover	10		
1.15	Use floor mats	10		
Sub-Total		150		

2.	Servicing the Service Brake Mech. System	Max	Actual	Comments
2.1	Use workshop manual	20		
2.2	Remove Front Wheel (Fr / LH)	20		
2.3	Remove lower bolt and lift caliper assembly	20		
2.4	Remove the pads	20		
2.5	Clean front brake component	20		
2.6	Install the pads	30		
2.7	Install the bolt and caliper assembly	20		
2.8	Torque caliper bolts	30		
2.9	Install front wheel	20		
2.10	Remove Rear wheel (Rr / LH)	30		
2.11	Remove brake drum	20		

2.12	Remove shoe hold down spring and shoe	30		
2.13	Clean rear brake components	20		
2.14	Install shoe and shoe hold down spring	30		
2.15	Install brake drum	20		
1.16	Adjust brake shoe clearance	30		
2.17	Install rear wheel	20		
Sub-Total		400		

Competitor Name	Competitor No	Task	Marking Scale
		D	Brake System

3.	Parking Brake Adjustment	Max	Actual	Comments
3.1	Use workshop manual	30		
3.2	Lubricate the linkages	40		
3.3	Adjust Cable tightness to 9 notch	80		
3.4	Adjust Cable tightness to +- 5 notch (20)			
3.5	Adjust Cable tightness to +- 7 notch (40)			
Sub-Total		150		

4.	Measuring the Mechanical Brake Component	Max	Actual	Comments
4.1	Measure brake pad thickness	50		
4.2	Measure disc thickness	50		
4.3	Measure disc run out	80		
4.4	Measure brake shoe thickness	70		
4.5	Measure Drum Diameter	50		
Sub-Total		300		