

Our reference: 22 - 170696

Date: 24/05/2022

c/o Garage 13 Pte Ltd  
8 Kaki Bukit Ave 4  
#02-55 Premier@KB  
Singapore 415875

Dear Sirs

RE: Road Traffic Accident on 10-05-2022  
HWV Rental Pte Ltd

In accordance with your instructions received in this office on 12-05-2022, we made arrangements to examine the vehicle on 12-05-2022 at above-mentioned address. The following data was recorded:

**Vehicle details**

Make	Toyota	Registration	GBH34L
Model	Dyna 150 5MT	Chassis	JTFAT35Y10K209612
Colour	White	Gearbox	Manual
Odometer	131916km	Paintwork	Fair
Steering	In order	Brakes	In order
Condition	Fair		

**Tyre Depths**

Front left	195R15C	85% Arivo
Front right	195R15C	85% Arivo
Rear left	155R12C	85% Tourador
Rear right	155R12C	85% Tourador

Status	REPAIRABLE
Magnitude	Medium
Legal status	Unroadworthy

**Impact Direction & Area of Damage:**

Following our examination of the accident damage, we have calculated repair times and method, which are detailed on page 2 & 3. We would recommend a sum of \$19,400.00 and 11 working days for repair, which is sufficiently lower than the pre accident value to render the vehicle an economically and physically reliable proposition.

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### Section A: Damaged Parts Assessment

Part's Description	Qty	Condition As inspected	Repairer's Estimate	Our Adjustment
<b>List Items :</b>				
Front bumper	1	distorted	721.50	721.50 ✓
Front bumper fog lamp garnish lh	1	cracked	49.25	49.25 ✓
Front bumper side bracket @\$195.00	2	bent	390.00	390.00 ✓
Front bumper crossmember	1	repair.respray	528.60	0.00 X R
Head lamp @\$1025.10	2	lh cracked rh holder broken	2050.20	2050.20 ✓
Center grille	1	crushed	521.50	521.50 ✓
Center grille "LOGO"	1	necessary	53.50	53.50 ✓
Front corner panel lh	1	holder cracked	245.20	245.20 ✓
Center panel	1	distorted	1124.00	1124.00 ✓
Center panel emblem 'DYNA'	1	necessary	115.00	115.00 ✓
Front door lh - slightly dented	1	repair.respray	1452.80	0.00 X R
Front door step garnish lh	1	cracked	318.40	318.40 ✓
Aircon condenser	1	ruptured	788.00	788.00 ✓
Aircon condenser bracket	1	bent	225.00	225.00 ✓
Aircon condenser fan assy	1	broken	725.00	725.00 ✓
Aircon pipe	1	bent	180.00	180.00 ✓
Front cabin mounting @\$195.00	2	lh bent rh refix	390.00	195.00 X nn
Tailgate	1	dented	1618.00	1618.00 X R
Tailgate hinges @\$45.80	4	dented	183.20	183.20 ✓
Tailgate lower panel	1	distorted	425.80	425.80 ✓
Tailgate stopper bracket lh	1	bent	153.00	153.00 ✓
Tailgate stopper rubber lh	1	missing	40.00	40.00 ✓
Sidegate lock lh	1	bent	186.00	186.00 ✓
Rear lamp @\$265.50	2	lh defaced rh refix	531.00	265.50 ✓
Rear lamp bracket @\$105.80	2	lh bent rh refix	211.60	105.80 ✓
Rear tow hook	1	bent	228.00	228.00 X nn
Rear spare tyre regulator / bracket assy	set	bent.jammed	388.70	388.70 ✓
Rear leaf spring assy @\$1607.00	2 - 1 - LH shifted.bent		3214.00	3214.00 845 ✓

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Rear leaf spring mounting @\$52.00	2	bent	104.00	104.00	×	nn
Rear shock absorber @\$399.50	2	1 - LH bent	799.00	799.00	399.50	✓
Rear axle housing	1	bent	2640.00	2640.00	1843	✓
Rear axle drive shaft @\$770.00	2	check.refix	1540.00	0.00	×	nn
Rear axle differential gear	1	jammed	3200.00	3200.00	×	nn
Rear brake fluid hose	1	deformed	202.00	202.00	×	nn
Rear cross member	1	distorted	554.00	554.00	×	R
Exhaust pipe	1	bent	655.00	655.00	✓	
Exhaust pipe support	2	distorted	80.00	80.00	✓	
Rear exhaust pipe bracket	1	deformed	45.00	45.00	✓	
Rear exhaust pipe inner bracket	1	deformed	115.50	115.50	✓	
Rear number plate holder	1	bent	99.00	99.00	✓	
Rear number plate lamp @\$37.50	2	refix	75.00	0.00	×	nn
Rear mudguard (rear) lh	1	distorted	443.00	443.00	311	✓
Rear mudguard splash shield lh	1	missing	98.60	98.60	✓	
<b>Sub- Total cost</b>			<b>27707.35</b>	<b>23544.65</b>	<b>13,745.82</b>	
Percentage discount : 25%			<b>6926.84</b>	<b>5886.16</b>	<b>-25%</b>	
<b>Sub-Total costs for parts</b>			<b>20780.51</b>	<b>17658.49</b>	<b>10,309.36</b>	

#### Special Nett Items:

Front number plate	1	bent	40.00	40.00	✓	
Front door LTA sticker lh	1	necessary	40.00	40.00	✓	
Front panel sealant	1	necessary	60.00	60.00	30	
Air con gas	1	necessary	45.00	45.00	✓	
Tailgate "70Km/h" sticker	1	necessary	20.00	20.00	✓	
Tailgate "13 pax" sticker	1	necessary	20.00	20.00	✓	
Tailgate "DYNA" sticker	1	necessary	48.00	48.00	✓	
Tailgate "TOYOTA" sticker	1	necessary	180.00	180.00	✓	
Reverse sensor	2	malfunction	200.00	200.00	✓	
Reverse sensor bracket	set	bent	68.00	68.00	✓	
Spare tyre (front)	1	missing	180.00	180.00	×	nn
Spare tyre rim (front)	1	missing	250.00	250.00	×	nn
Spare tyre (rear)	1	missing	150.00	150.00	×	nn
Spare tyre rim (rear)	1	missing	220.00	220.00	×	nn
Rear number plate	1	bent	40.00	40.00	✓	



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Rear brake fluid	1	necessary	45.00	45.00	✓
Rear step bar	1	broken	224.00	224.00	200
<b>Sub-Total costs for parts</b>			<b>1830.00</b>	<b>1830.00</b>	976

#### Parts Repair

Rear floor panel - dented	1	repair.respray	0.00	0.00	× R
Front windscreen pillar lh - bent	1	repair.respray	0.00	0.00	× R
Side gate lower panel lh - bent	1	repair.respray	0.00	0.00	× R
Rear chassis frame - bent	1	repair.respray	0.00	0.00	× R
<b>Sub- Total costs</b>			<b>0.00</b>	<b>0.00</b>	
<b>Total costs for parts</b>			<b>22610.51</b>	<b>19488.49</b>	

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### Section B: Labour Cost Calculation

	Hourly rate	Manhr. Req.	Total	
To dismantle, replace, cut, weld, knock out dents to straighten accident parts as-mentioned on the 'Parts Repair' column inclusive of replacement parts.	\$ 45.00	42	\$ 1,890.00	1600
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 1,400.00	1200
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 90.00	30
Remove / replace aircon condenser and refill aircon gas	\$ 45.00	2.5	\$ 112.50	50
Remove and replace rear exhaust system	\$ 45.00	2.5	\$ 112.50	80
Remove and replace rear reverse sensor	\$ 45.00	1.7	\$ 76.50	30
Remove and replace rear undercarriage work include rear axle and differential gear etc	\$ 45.00	12	\$ 540.00	400
Specialist charges - Conduct rear chassis alignment	-	-	\$ 250.00	200
To perform rear platform alignment	-	-	\$ 300.00	200
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	1	\$ 45.00	30
<b>Total labour cost</b>			<b>\$ 4,816.50</b>	<b>3820</b>

Manhour rate and the number of manhours required for each repairing task are formulated based on individual workshop's operating cost and in-house@ IA Research Guidelines respectively.

10 days

15,105.36

L/S - 12,084.28  
= 12,100.00

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### Section C: Summary Table of Total Repair Cost

Description		Cost
<b>Damaged Parts Assessment</b> (See section A)		\$19,488.49
<b>Labour Cost Calculation</b> (See section B)		\$4,816.50
<b>Total cost</b>		\$24,304.99
Lump sum repair		\$4,861.00
Further discount	20%	
<b>Total Repair Cost</b>		\$19,400.00

We would recommend a sum of \$19,400.00 and 11 working days for repair.  
No further items will be approved without our expressed written agreement. Any significant additional items will be subject to a supplementary report.



Mechanical Engineer, Accident Expert Witness, Licensed Appraiser (Automobile)  
B.Eng. (Hons, NUS)  
Diploma.Mechanical Engineering  
NTC-2 Automovite Technology  
Sr.MIES, Institution of Engineers, Singapore (#20100091)  
MATAI, Maryland Association of Traffic Accident Investigators  
IAARS, International Association of Accident Reconstruction Specialists  
PMC of Singapore Business Advisors & Consultants Council  
ACTA certified Trainer, Singapore  
Enterprise Singapore - Recognised Certification for Management Consultants  
IMI Professional Certificate In Vehicle Accident Damage Assessment (UK)