

Our reference: 21-7229

Date: 21/1/2021

c/o Garage 13 Pte Ltd
8 Kaki Bukit Ave 4
#03-46 Premier@KB
Singapore 415875

Dear Sirs

RE: Road Traffic Accident on 7/1/2021
Care Aircon Engineering

In accordance with your instructions received in this office on 9/1/2021, we made arrangements to examine the vehicle on 9/1/2021 at above-mentioned address. The following data was recorded:

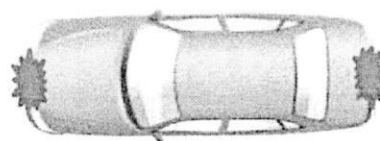
Vehicle details

Make	Toyota	Registration	GBG2542D
Model	Hiace	Chassis	JTFHT02P500218849
Colour	Silver	Gearbox	Manual
Odometer	112271km	Paintwork	Good
Steering	In order	Brakes	In order
Condition	Good		

Tyre Depths

Front left	195R15C	85% Bridgestone
Front right	195R15C	85% Bridgestone
Rear left	195R15C	85% Bridgestone
Rear right	195R15C	85% Bridgestone

Impact Direction & Area of Damage:



Status	REPAIRABLE
Magnitude	Medium
Legal status	Unroadworthy

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 \$11,100.00 and 10 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
List Items :				
Tail gate	1	bent	1758.90	1758.90 ✓
Tail gate weatherstrip	1	ripped	219.30	219.30 ✓
Tail gate inner lock	1	bent.jammed	320.80	320.80 287
Tail gate logo	1	necessary	45.60	45.60 ✓
Tail gate outer garnish	1	refix	128.70	0.00 X
Tail gate shock absorber @\$219.60	2	bent.stiffened	439.20	439.20 XNN
Tail gate lock catch	1	distorted	52.50	52.50 XSVC
Rear bumper	1	deformed	577.80	577.80 496
Rear bumper side retainer @\$120.10	2	broken	240.20	240.20 ✓
Rear bumper lower bracket @\$69.50	4	bent	278.00	278.00 ✓
Tail lamp @\$277.40	2	intact	554.80	0.00 X
Tail lamp lower garnish @\$121.60	2	intact	243.20	0.00 X
Rear end panel inner	1	bent	544.20	544.20 XR
Rear end panel outer	1	bent	548.90	548.90 ✓
Rear end corner panel @\$122.10	2	repair	244.20	0.00 X
Rear spare tyre holder	1	distorted	255.80	255.80 XSVC
Front bumper	1	damaged	574.50	574.50 ✓
Front bumper reinforcement	1	bent	355.80	355.80 ✓
Front bumper grille	1	torn	155.40	155.40 ✓
Front bumper side retainer lh	1	broken	35.00	35.00 ✓
Front bumper top beam	1	bent	201.50	201.50 ✓
Front bumper inner cross member	1	repair	582.60	0.00 X
Radiator grille assy	1	broken	476.90	476.90 381
Head lamp @\$752.50	2	holder broken	1505.00	1505.00 ✓
Head lamp bracket @\$85.50	2	damaged	171.00	171.00 XSVC
Bonnet	1	damaged	658.70	658.70 606

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Bonnet lock	1	damaged	142.50	142.50	✓
Bonnet hinge @\$65.00	1	bent	130.00	130.00	X NN
Bonnet brace panel	1	cracked	198.70	198.70	✓ 165
Bonnet <i>duplicate</i>	1	necessary	285.20	285.20	X
Water tank	1	dented	115.50	115.50	✓
Aircon condenser	1	bent/warped	1025.80	1025.80	X NN
Front air cooler	1	dented	1650.00	1650.00	✓ 1210
Sub- Total cost			14716.20	12962.70	
Percentage discount : 25%			3679.05	3240.68	
Sub-Total costs for parts			11037.15	9722.03	

Special Nett Items:

Rear bumper clips	set	necessary	103.20	103.20	30
Tail gate windscreen sealant	1	necessary	60.00	60.00	50
Tail gate '70KM/H' sticker	1	necessary	20.00	20.00	15
Tail gate "HIACE"	1	necessary	55.00	55.00	30
Rear end panel sealant	1	necessary	40.00	40.00	30
Rear number plate	1	refix	50.00	0.00	X
Rear reverse sensor	1	malfunction	280.00	250.00	200
Front bumper clip	set	necessary	50.00	50.00	30
Center grille clip	set	necessary	30.00	20.00	15
Bonnet company advertisement	1	necessary	200.00	200.00	120
Sub-Total costs for parts			888.20	798.20	

Parts Repair

*	*	*	0.00	0.00	
Sub- Total costs			0.00	0.00	
Total costs for parts			11925.35	10520.23	

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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	34	\$ 1,530.00
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 1,250.00
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 100.00
Remove / replace aircon condenser and refill aircon gas	\$ 45.00	3	\$ 135.00
Remove and refix tailgate windscreen (2 man-job)	\$ 45.00	3.5	\$ 157.50
Transfer tailgate mechanism	\$ 45.00	1.7	\$ 76.50
Conduct water leak test for rear portion associated repair works	\$ 45.00	1.5	\$ 67.50
Remove and replace rear reverse sensor	\$ 45.00	1.8	\$ 81.00
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	1	\$ 45.00
Total labour cost			\$ 3,442.50

1,100

1,000

60

80

120

60

X

50

30

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.

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Section C: Summary Table of Total Repair Cost

Description		Cost
Damaged Parts Assessment (See section A)		\$10,520.23
Labour Cost Calculation (See section B)		\$3,442.50
Total cost		\$13,962.73
Lump sum repair		\$2,792.55
Further discount	20%	
Total Repair Cost		\$11,100.00

We would recommend a sum of \$11,100.00 and 10 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)

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