

Practicing Management Consultant (PMC) of SBACC
Approved Training Organisation (ATO) of Workforce Singapore

Our reference: 21-7788

Date: 10/6/2021

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

Dear Sirs

RE: Road Traffic Accident on 21/5/2021
Ng Yoke Mun

In accordance with your instructions received in this office on 24/5/2021, we made arrangements to examine the vehicle on 24/5/2021 at above-mentioned address. The following data was recorded:

Vehicle details

Make	Toyota	Registration	SKW1959B
Model	Harrier	Chassis	ZSU600052142
Colour	Black	Gearbox	Auto
Odometer	181329km	Paintwork	Good
Steering	In order	Brakes	In order
Condition	Good		

Tyre Depths

Front left	255/45R20	85% Pirelli
Front right	255/45R20	85% Pirelli
Rear left	255/45R20	85% Pirelli
Rear right	255/45R20	85% Pirelli

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 \$22,700.00 and 12 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 :				
Front bumper	1	deformed	1458.00	1458.00
Front bumper lower spoiler/lid	1	broken	1025.80	1025.80
Front bumper side retainer @\$102.40	1	lh cracked rh reuse	204.80	102.40
Front bumper side bracket @\$135.00	2	reuse	270.00	0.00
Front bumper fog lamp garnish @\$122.00	2	reuse	244.00	0.00
Front bumper fog lamp @\$295.00	2	reuse	590.00	0.00
Front bumper reinforcement	1	buckled	541.20	541.20
Front bumper lower grille	1	broken	266.50	266.50
Front support top panel	1	repair	652.50	0.00
Front support top panel garnish	1	reuse	298.45	0.00
Front radiator grille assy	1	cracked	852.90	852.90
Front radiator grille assy logo	1	necessary	102.40	102.40
Front radiator grille assy bracket	1	bent	205.50	205.50
Front bumper sponge (black)	1	damaged	154.20	154.20
Front bumper sponge (white) @\$97.00	2	damaged	194.00	194.00
Headlamp @\$4459.00	2	holder broken	8918.00	8918.00
Headlamp panel @\$442.00	2	repair	884.00	0.00
Headlamp bracket @\$125.50	2	cracked	251.00	251.00
Rear bumper	1	crushed	1452.60	1452.60
Rear bumper side retainer @\$75.40	2	cracked	150.80	75.40
Rear bumper lower lid	1	torn	785.60	785.60
Rear bumper sponge	1	compressed.torn	202.30	202.30
Rear bumper reflector @\$85.20	2	cracked	170.40	170.40
Rear end panel	1	crushed	812.50	812.50
Rear end side inner panel @\$256.52	2	lh bent rh repair	513.04	256.52
Rear end panel top garnish with chrome	1	deformed	277.80	277.80

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Tail gate	1	crushed	2378.00	2378.00
Tail gate emblem harrier	1	necessary	96.50	96.50
Tail gate logo	1	necessary	55.00	55.00
Tail gate inner lock	1	bent-in.jammed	355.50	355.50
Tail gate inner lock cover	1	damaged	24.58	24.58
Tail gate keyless entry sensor	1	cracked	299.00	299.00
Tail gate weatherstrip	1	ripped	285.20	285.20
Tail gate reflector @\$322.50	2	lh cracked rh holder broken	645.00	645.00
Tail gate inner trim	1	deformed	624.00	624.00
Tail gate inner trim handle @\$65.00	2	damaged	130.00	130.00
Tail lamp @\$485.00	2	holder broken	970.00	970.00
Tail lamp bracket @\$85.20	2	cracked	170.40	170.40
Tail lamp panel @\$442.00	2	repair.	884.00	0.00
Tail gate outer garnish	1	cracked	287.90	287.90
Tail gate damper @\$198.50	2	stiffened	397.00	397.00
Tail gate multiplex door computer	1	cracked	1358.90	1358.90
Rear fender lh - lower portion - crushed	1	crushed	1562.00	1562.00
Rear fender air vent lh	1	broken	144.00	144.00
Rear fender air vent cover lh	1	broken	101.00	101.00
Rear fender inner trim @\$596.80	2	deformed	1193.60	1193.60
Rear spare tyre floor panel	1	crushed	986.89	986.89
Rear fender mudflap @\$85.50	2	damaged	171.00	171.00
Tail gate open switch	1	cracked.malfunction	198.80	198.80
Tail gate control switch	1	malfunction	147.80	147.80
Tail gate safety sensor	1	serviceable	263.10	0.00
Sub- Total cost			35207.46	30687.09
Percentage discount : 25%			8801.87	7671.77
Sub-Total costs for parts			26405.60	23015.32

Special Nett Items:

Front bumper clips	set	necessary	55.00	55.00
Front radiator grille assy clips	set	necessary	20.00	20.00

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Front number plate	1	cracked	50.00	50.00
Rear bumper clips	set	necessary	55.00	55.00
Reverse sensor	1	malfunction	250.00	250.00
Reverse camera	1	malfunction	320.00	320.00
Rear end panel sealant	1	necessary	40.00	40.00
Tail gate windscreen sealant	1	necessary	50.00	50.00
Rear spare tyre floor panel insulation	1	necessary	120.00	120.00
Rear fender quarter glass sealant lh	1	necessary	25.00	25.00
Sub-Total costs for parts			985.00	985.00

Parts Repair

*	*	*	0.00	0.00
Sub- Total costs			0.00	0.00
Total costs for parts			27390.60	24000.32

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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	37	\$ 1,665.00
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 1,700.00
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 80.00
Remove and refix upholstery, cushion seat & rear inner trims to facilitate the repair of rear spare floor panel & rear fender lh	\$ 45.00	4	\$ 180.00
Remove and refix tailgate rear windscreen glass. (2-man job)	\$ 45.00	3.5	\$ 157.50
Remove and replace rear bumper reverse sensor & conduct distance safety setting.	\$ 45.00	1.7	\$ 76.50
Remove and replace rear reverse camera & conduct distance safety setting	\$ 45.00	1.7	\$ 76.50
Remove and refix fuel tank, pipes to facilitate the repair works	\$ 45.00	1.5	\$ 67.50
Conduct water leak test for rear portion associated repair works	\$ 45.00	1.5	\$ 67.50
Specialist charges - Dignostic fault code / reset			\$ 100.00
Transfer of existing tailgate mechanism to new tailgate	\$ 45.00	2	\$ 90.00
Remove and refix quarter glass lh	\$ 45.00	1	\$ 45.00
Remove and replace tail gate multiplex door computer and commissionin	\$ 45.00	2.5	\$ 112.50
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	1.5	\$ 67.50
Total labour cost			\$ 4,485.50

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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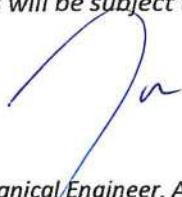
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Section C: Summary Table of Total Repair Cost

Description		Cost
Damaged Parts Assessment (See section A)		\$24,000.32
Labour Cost Calculation (See section B)		\$4,485.50
Total cost		\$28,485.82
Lump sum repair		\$5,697.16
Further discount	20%	
Total Repair Cost		\$22,700.00

We would recommend a sum of \$22,700.00 and 12 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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