

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:

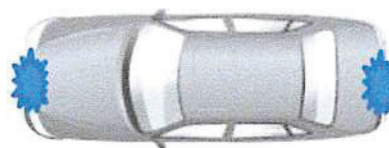
#### Vehicle details

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	
<b>List Items :</b>					
Front bumper	1	deformed	1458.00	1458.00	811.30
Front bumper lower spoiler/lid	1	broken	1025.80	1025.80	643.40
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	XNN
Front bumper fog lamp garnish @\$122.00	2	reuse	244.00	0.00	XNN
Front bumper fog lamp @\$295.00	2	reuse	590.00	0.00	XNN
Front bumper reinforcement	1	buckled	541.20	541.20	417.90
Front bumper lower grille	1	broken	266.50	266.50	
Front support top panel	1	repair	652.50	0.00	XNN
Front support top panel garnish	1	reuse	298.45	0.00	XNN
Front radiator grille assy	1	cracked	852.90	852.90	545
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 @2821.10	2	holder broken	8918.00	8918.00	5642.20
Headlamp panel @\$442.00	2	repair	884.00	0.00	XR
Headlamp bracket @\$125.50	2	cracked	251.00	251.00	
Rear bumper	1	crushed	1452.60	1452.60	1283
Rear bumper side retainer @\$75.40	2	cracked	150.80	75.40	
Rear bumper lower lid	1	torn	785.60	785.60	401.60
Rear bumper sponge	1	compressed.torn	202.30	202.30	127.80
Rear bumper reflector @\$85.20	2	cracked	170.40	170.40	
Rear end panel	1	crushed	812.50	812.50	781.80
Rear end side inner panel @\$256.52	2	lh bent rh repair	513.04	256.52	XR
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	1750
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	155
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	389
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	XR
Tail gate outer garnish	1	cracked	287.90	287.90	
Tail gate damper @\$198.50	2	stiffened	397.00	397.00	XNN
Tail gate multiplex door computer	1	cracked	1358.90	1358.90	
Rear fender lh - lower portion - crushed	1	crushed	1562.00	1562.00	1245
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	LH de RH xnn
Rear spare tyre floor panel	1	crushed	986.89	986.89	XR
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	xnn
<b>Sub- Total cost</b>			<b>35207.46</b>	<b>30687.09</b>	21,730.62
Percentage discount : 25%			8801.87	7671.77	16,297.96
<b>Sub-Total costs for parts</b>			<b>26405.60</b>	<b>23015.32</b>	

#### Special Nett Items:

Front bumper clips	set	necessary	55.00	55.00	30
Front radiator grille assy clips	set	necessary	20.00	20.00	

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Front number plate	1	cracked	50.00	50.00	45
Rear bumper clips	set	necessary	55.00	55.00	30
Reverse sensor	1	malfunction	250.00	250.00	200
Reverse camera	1	malfunction	320.00	320.00	280
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	80
Rear fender quarter glass sealant lh	1	necessary	25.00	25.00	
<b>Sub-Total costs for parts</b>			<b>985.00</b>	<b>985.00</b>	800

#### Parts Repair

*	*	*	0.00	0.00
<b>Sub- Total costs</b>			<b>0.00</b>	<b>0.00</b>
<b>Total costs for parts</b>			<b>27390.60</b>	<b>24000.32</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	37	\$ 1,665.00	1600
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 1,700.00	1600
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	100
Remove and refix tailgate rear windscreen glass. (2-man job)	\$ 45.00	3.5	\$ 157.50	120
Remove and replace rear bumper reverse sensor & conduct distance safety setting.	\$ 45.00	1.7	\$ 76.50	30
Remove and replace rear reverse camera & conduct distance safety setting	\$ 45.00	1.7	\$ 76.50	30
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	30
Specialist charges - Dignostic fault code / reset			\$ 100.00	
Transfer of existing tailgate mechanism to new tailgate	\$ 45.00	2	\$ 90.00	60
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	60
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	1.5	\$ 67.50	30
<b>Total labour cost</b>			<b>\$ 4,485.50</b>	3952.50

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.

21,050.46  
l/s\$16,800  
12 days

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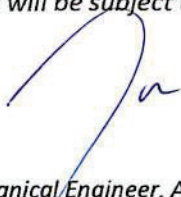
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### Section C: Summary Table of Total Repair Cost

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