

No.25 Kaki Bukit Road 4 #06-46 Synergy @KB Singapore 417800 Hotline: 6385 1171

Our reference:

22 - 170593

Date:

25/04/2022

INVOICE NO. INV-170593

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

Registration No.

SML2377H

We enclose our fee note for your kind attention, which remains payable irrespective of the outcome of this case.

S/No.	Description of Services Provided	Qty	Amount	
1	Being vehicle damage assessment report, inspection, photographs, transport and miscellaneous.	1	\$	1,103.00
		<b>Total amount</b>	\$	1,103.00

Please kindly cross all cheques made payable to "Impact Analysis Consulting Pte Ltd".

We thank you in anticipation for your prompt payment.

L. L. Tan (Wis) Principal Consultant

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

Dear Sirs

RE:

Road Traffic Accident on 08-04-2022

Lim Lee Tiang

In accordance with your instructions received in this office on

11-04-2022

, we made arrangements to

examine the vehicle on

11-04-2022

at above-mentioned address. The following data was

recorded:

#### Vehicle details

Make	Toyota	Registration	SML2377H
Model	Alphard	Chassis	AGH300213228
Colour	Black	Gearbox	Auto
Odometer	84832km	Paintwork	Fair
Steering	In order	Brakes	In order
Condition	Fair		

### Tyre Depths

Front left	235/50R18	85% Grelander
Front right	235/50R18	85% Grelander
Rear left	235/50R18	85% Yokohama
Rear right	235/50R18	85% Neuton

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 \$17,300.00 and 13 working days for repair, which is sufficiently lower than the pre accident value to render the vehicle an economically and physically reliable proposition.

Subsidiaries of Impact Analysis:

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# Section A: Damaged Parts Assessment

Section A: Da	maged	Parts Assessment		
Part's Description	Qty	Condition As inspected	Repairer's Estimate	Our Adjustment
List Items:				
Front bumper	1	crushed	1926.80	1926.80
Front bumper side retainer @\$85.00	2	broken.nec	170.00	170.00
Front bumper side chrome garnish assy lh	1	grazed.cracked	485.40	485.40
Front bumper foglamp garnish lh	1	deformed	92.30	92.30
Front bumper foglamp ih	1	cracked	299.50	299.50
Front bumper reinforcement	1	bent	388.90	388.90
Front bumper sponge	1	torn	139.50	139.50
Front bumper tow cover	1	deformed	38.90	38.90
Front bumper under cover (absorber)	1	deformed	236.80	236.80
Front bumper number plate holder	1	deformed	78.00	78.00
Front bumper lower grille	1	deformed	218.00	218.00
Front bumper sensor @\$328.20	2	malfunction	656.40	656.40
Front bumper sensor bracket @\$24.00	2	broken.nec	48.00	48.00
Headlamp @\$3889.40	2	Ih crushed rh fractured	7778.80	7778.80
Headlamp chrome moulding lower Ih	1	cracked	118.00	118.00
Headlamp ECU Ih	1	malfunction	444.68	444.68
Center grille assy	1	grazed.torn	1849.70	1849.70
Center grille logo	1	necessary	85.00	85.00
Bonnet	1	buckled	1310.00	1310.00
Bonnet hinge @\$84.00	2	shifted.bent	168.00	168.00
Bonnet lock	1	bent	166.50	166.50
Bonnet outer chrome moulding	1	grazed.dented	268.00	268.00
Radiator side garnish lh	1	deformed	84.10	84.10
Front support panel side assy Ih	1	distorted	465.20	465.20
Front support panel top garnish	1	deformed	226.00	226.00
Radar sensor	1	check.serviceable	860.60	0.00
Resonator box hose	1	deformed	156.00	156.00
Washer tank	1	deep cut	144.00	144.00
Front windscreen pillar moulding Ih	1	deformed	116.80	116.80

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Front fender Ih		1	crushed	890.20	890.20
Front fender o	uter garnish lower lh	1	deformed	56.20	56.20
	ner gap filler garnish Ih	1	deformed	82.30	82.30
Front fender in		1	buckled	98.60	98.60
Front fender in	ner shield lh	1	torn	224.60	224.60
Front door Ih -	dented	1	repair.respray	2458.90	0.00
Front door side	mirror lh	1	repair	1120.00	0.00
Front knuckle	arm lh	1	warped	599.70	599.70
Front knuckle a	arm bearing lh	1	necessary	162.90	162.90
Front knuckle a	arm hub lh	1	necessary	282.90	282.90
Front lower arr	m lh	1	bent	492.90	492.90
Front linkage II	1	1	bent	98.10	98.10
Front tie rod Ih		1	bent	156.70	156.70
Front shock ab	sorber lh	1	bent	626.30	626.30
		Sub- Tota	l cost	26370.18	21930.68
	Perce	ntage discount :	25%	6592.55	5482.67
		Sub-Total costs	for parts	19777.64	16448.01
Special Nett Ite	ems:				
Front tyre Ih		1	cut.compressed	350.00	297.50
Front rim Ih		1	dented.bent	862.20	862.20
Front fender in	ner shield clip lh	1	necessary	30.00	30.00
Front number ;	plate with casing	1	dented.bent	50.00	50.00
Front bumper of	lips	set	necessary	55.00	55.00
Bonnet insulati	on clips	set	necessary	40.00	40.00
		Sub-Total costs	for parts	1387.20	1334.70
Parts Repair					
Front wheel ho	use Ih - bent	1	repair.respray	0.00	0.00
Front windscre	en pillar lh	1	repair.respray	0.00	0.00
		Sub- Total	costs	0.00	0.00
		Total costs fo	or parts	21164.84	17782.71

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### Section B: Labour Cost Calculation

		urly 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	32	\$	1,440.00
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	llowance. Paint / material. Sub-contract work.		\$	1,520.00	
Apply rust proofing on the adjacent panels.		Sub-con	tract work.	\$	100.00
Remove / replace aircon condenser and refill aircon gas	\$	45.00	2.5	\$	112.50
Remove and replace front undercarriage work lh	\$	45.00	5	\$	225.00
Specialist charges - Wheel alignment			12	\$	90.00
Remove and refix front parking sensor & conduct distance safety setting	\$	45.00	1.7	\$	76.50
Specialist charges - Check/Diagnostic and reprogramming				\$	250.00
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$	45.00	1	\$	45.00
		Total la	bour cost	\$	3,859.00

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)		\$17,782.71	
Labour Cost Calculation (See section B)		\$3,859.00	
Total cost		\$21,641.71	
Lump su	m repair		
Further discount 20%		\$4,328.34	
Total Repair Cost		\$17,300.00	

We would recommend a sum of	\$17,300.00	and	13	working days for repair.
No further items will be approved v	vithout our expressed	d written agreem	nent. Any sign	ificant additional
items will be subject to a suppleme	ntary 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)

Subsidiaries of Impact Analysis:

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