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

Our reference:

22 - 170593

Date:

25/04/2022

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 examine the vehicle on

11-04-2022

11-04-2022

, we made arrangements to

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.

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# Section A: Damaged Parts Assessment

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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 Ih	1	grazed.cracked	485.40	485.40 🗸
Front bumper foglamp garnish Ih	1	deformed	92.30	92.30 🗸
Front bumper foglamp Ih	1	cracked	299.50	299.50 × nn
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 × nn
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	1 <del>2</del>	malfunction	656.40	656.40 328.20 ✓
Front bumper sensor bracket @\$24.00	1 -2	broken.nec	48.00	48.00 24 🗸
Headlamp @\$3889.40	1 -2-	Ih crushed rh fractured	7778.80	7778.80 2970 V
Headlamp chrome moulding lower lh	1	cracked	118.00	118.00 🗸
Headlamp ECU Ih	1	malfunction	444.68	444.68 × nn
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 X nn
Bonnet lock	1	bent	166.50	166.50 × nn
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 × nn
Radar sensor	1	check.serviceable	860.60	0.00 × nn
Resonator box hose	1	deformed	156.00	156.00 × nn
Washer tank	1	deep cut	144.00	144.00
Front windscreen pillar moulding Ih	1	deformed	116.80	116.80 × nn

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Our reference: 22 -	170593			
Date 25/0	4/2022			
Front fender Ih	1	crushed	890.20	890.20 🗸
Front fender outer garnish l	ower Ih 1	deformed	56.20	56.20 × nn
Front fender inner gap filler	garnish lh 1	deformed	82.30	82.30 × nn
Front fender inner bracket I	h 1	buckled	98.60	98.60 🗸
Front fender inner shield lh	1	torn	224.60	224.60 🗸
Front door Ih - dented	1	repair.respray	2458.90	0.00 X R
Front door side mirror lh	1	repair	1120.00	0.00 × nn
Front knuckle arm Ih	1	warped	599.70	599.70 × nn
Front knuckle arm bearing l	h 1	necessary	162.90	162.90× nn
Front knuckle arm hub lh	1	necessary	282.90	282.90 × nn
Front lower arm lh	1	bent	492.90	492.90 × nn
Front linkage Ih	1	bent	98.10	98.10 × nn
Front tie rod lh	1	bent	156.70	156.70 X nn
Front shock absorber Ih	1	bent	626.30	626.30 × nn
	Sub- Tot	tal cost	26370.18	21930.68 12,397.40
	Percentage discount:	25%	6592.55	5482.67 -25%
	Sub-Total cos	sts for parts	19777.64	<b>16448.01</b> 9298.05
Special Nett Items:				
Front tyre Ih	1	cut.compressed	350.00	297.50× nn
Front rim Ih	1	dented.bent	862.20	862.20 500 🗸
Front fender inner shield clip	p lh 1	necessary	30.00	30.00 20
Front number plate with cas	ing 1	dented.bent	50.00	50.00 45
Front bumper clips	set	necessary	55.00	55.00 30
Bonnet insulation clips	set	necessary	40.00	40.00 X nn
	Sub-Total cos	sts for parts	1387.20	<b>1334.70</b> 595
Parts Repair				
Front wheel house Ih - bent	1	repair.respray	0.00	0.00
Front windscreen pillar lh	1	repair.respray	0.00	0.00
	Sub- Total	al costs	0.00	0.00

Total costs for parts

21164.84

17782.71

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### Section B: Labour Cost Calculation

	Hourly rate	Manhr. Req.	Total		1
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	80
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-con	tract work.	\$	1,520.00	100
Apply rust proofing on the adjacent panels.	Sub-con	tract work.	\$	100.00	30
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	2		\$	90.00	<b> </b>
Remove and refix front parking sensor & conduct distance safety setting	\$ 45.00	1.7	\$	76.50	50
Specialist charges - Check/Diagnostic and reprogramming	-		\$	250.00	10
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	1	\$	45.00	30
	Total la	bour cost	\$	3,859.00	1

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.

2100

7 days

11,993.05

L/S - 9594.44 = 9600

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Date 25/04/2022

# 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 sum repair		5556	
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 expresse	d written agreem	nent. Any sign	nificant additional
items will be subject to a suppleme	ntary report.		0.30	

Mechanidal 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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