

Our reference: 22 - 170885

Date: 12/07/2022

INVOICE NO. 170885

Tay Chee Hiam
c/o Everdawn Auto Service
8, Kaki Bukit Ave 4
Premier@Kaki Bukit
#01-02 Singapore 415875

Celine

Registration No. **SJA3963C**

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	\$ 1,125.00
Total amount			<u>\$ 1,125.00</u>

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 (Ms)
Principal Consultant

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c/o Everdawn Auto Service
8, Kaki Bukit Ave 4
Premier@Kaki Bukit
#01-02 Singapore 415875

Dear Sirs

RE: Road Traffic Accident on 24-06-2022
Tay Chee Hiam

In accordance with your instructions received in this office on 28-06-2022, we made arrangements to examine the vehicle on 28-06-2022 at above-mentioned address. The following data was recorded:

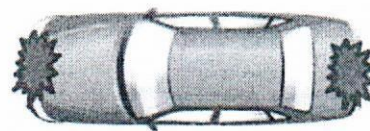
Vehicle details

Make	Toyota	Registration	SJA3963C
Model	Wish 1.8 CVT	Chassis	JTDGG20W40J007960
Colour	White	Gearbox	Auto
Odometer	115470km	Paintwork	Good
Steering	In order	Brakes	In order
Condition	Good		

Tyre Depths

Front left	195/65R15	85% Yokohama
Front right	195/65R15	85% Yokohama
Rear left	195/65R15	85% Yokohama
Rear right	195/65R15	85% Yokohama

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 \$15,300.00 and 14 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 :				
Bonnet	1	buckled	1182.50	1182.50 ✓
Bonnet hinge @\$68.50	2	bent	137.00	137.00 ✓
Bonnet lock	1	bent, jammed	110.20	110.20 ✓
Bonnet lock brace panel	1	bent	102.50	102.50 ✓
Bonnet insulator	1	refix	161.80	0.00 ✗
Bonnet weather strip	1	refix	69.20	0.00 ✗
Bonnet logo	1	necessary	55.00	55.00 ✓
Front bumper	1	deformed, cracked	826.00	826.00 648. ✓
Front bumper fog lamp cover @\$62.40	2	refix	124.80	0.00 ✗
Front bumper fog lamp @\$225.00	2	holder torn	450.00	450.00 ✓
Front bumper fog chrome ring @\$105.20 <i>refix</i>	2	grazed	210.40	210.40 ✗
Front bumper side retainer @\$60.20	2	cracked, nec	120.40	120.40 ✓
Front bumper lower centre grille	1	refix	95.90	0.00 ✗
Front bumper side grille @\$82.30	2	holder torn	164.60	164.60 ✓
Front bumper sponge	1	torn	166.00	166.00 ✓
Front bumper reinforcement	1	distorted	496.00	496.00 ✓
Front bumper reinforcement bracket @\$61.20 <i>refix</i>	2	bent	122.40	122.40 ✗
Front bumper under cover centre	1	refix	221.00	0.00 ✗
Radiator grille c/w chrome moulding	1	dented, cracked	468.00	468.00 ✓
Front fender @\$698.20	2	repair, respray	1396.40	0.00 ✗
Head lamp @\$1356.67	2	holder fractured	2713.34	2713.34 ✓
Front support top panel <i>Refix</i>	1	distorted	832.80	832.80 ✗
Front support top panel garnish	1	damaged	176.20	176.20 ✓
Air con condenser	1	dented	986.00	986.00 ✓
Radiator	1	dented	1450.00	1450.00 ✓
Radiator fan cowling	1	check, serviceable	225.00	0.00 ✗
Radiator fan motor @\$235.00	2	check, serviceable	470.00	0.00 ✗
Radiator fan blade	1	check, serviceable	129.30	0.00 ✗

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Radiator side garnish @\$86.90	2	check.serviceable	173.80	0.00	X
Horn <i>the new</i>	1	dented	112.20	112.20	X
Tailgate	1	buckled	1448.20	1448.20	✓
Tail gate outer chrome garnish	1	refix	240.80	0.00	X
Tailgate emblem Valve Matic	1	necessary	75.00	75.00	✓
Tailgate logo	1	necessary	48.50	48.50	✓
Tail gate windscreen moulding	1	necessary	178.00	178.00	✓
Tail gate inner trim	1	holder torn	302.50	302.50	✓
Tail gate shock absorber @\$217.10	2	refix	434.20	0.00	X
Tailgate lamp @\$288.00	2	check.serviceable	576.00	0.00	X
Tailgate weatherstrip	1	deformed.nec	196.50	196.50	✓
Tailgate lock	1	bent.jammed	274.00	274.00	✓
Rear bumper	1	deformed.torn	861.00	861.00	645. ✓
Rear bumper side retainer outer @\$65.80	2	necessary	131.60	131.60	✓
Rear bumper reflector @\$58.00	2	fractured	116.00	116.00	✓
Rear bumper impact absorber @\$102.50	2	buckled	205.00	205.00	✓
Rear end panel	1	distorted	615.00	615.00	✓
Rear end panel top garnish	1	refix	286.60	0.00	X
Tail lamp @\$452.60	2	check.serviceable	905.20	0.00	X
Spare tyre bracket assy	1	bent	322.00	322.00	✓
Rear exhaust silencer <i>Reps</i>	1	bent	965.20	965.20	X
Rear exhasut silencer mounting <i>the new</i>	1	necessary	48.00	48.00	X
Keyless sensor	1	crushed	172.00	172.00	✓
Sub- Total cost			22350.04	16840.04	
Percentage discount : 25%			5587.51	4210.01	
Sub-Total costs for parts			16762.53	12630.03	

14155.04
10616.28

Special Nett Items:

Bonnet insulator clips	set	necessary	45.00	45.00	30. ✓
Front number plate with casing	1	broken	50.00	50.00	✓
Front bumper clips	set	necessary	45.00	45.00	30. ✓
Front support panel top garnish clips @\$4.50	5	necessary	22.50	22.50	✓
Rear bumper clips	set	necessary	45.00	45.00	30. ✓

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Reverse sensor	1	malfunction	200.00	200.00	✓
Keyless sensor <i>Repeinted</i>	1	crushed	167.00	167.00	+
Rear end panel sealant	1	necessary	40.00	40.00	✓
Rear end panel top garnish clips <i>517.50</i>	set	necessary	15.00	15.00	✓
Tailgate inner trimboard clips	set	necessary	40.00	40.00	✓
Tailgate windscreen sealant	1	necessary	60.00	60.00	✓
Sub-Total costs for parts			729.50	729.50	

Parts Repair

*	*	*	0.00	0.00
Sub- Total costs			0.00	0.00
Total costs for parts			17492.03	13359.53

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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	42	\$ 1,890.00
Putty & Spray painting to adjacent panels. Job allowance. Paint / material. (front fender lh, bonnet, front bumper)	Sub-contract work.		\$ 1,800.00
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 100.00
Remove / replace aircon condenser and refill aircon gas	\$ 45.00	2.5	\$ 112.50
Remove / refix radiator, top up coolant & conduct pressure test	\$ 45.00	2	\$ 90.00
Specialist charges - Conduct front chassis alignment	-	-	\$ 250.00
Transfer of existing tailgate mechanism to new tailgate	\$ 45.00	2	\$ 90.00
Remove and refix tailgate rear windscreen glass. (2-man job)	\$ 45.00	3	\$ 135.00
Remove and replace rear bumper reverse sensor & conduct distance safety setting.	\$ 45.00	1.6	\$ 72.00
Remove and replace rear exhaust system	\$ 45.00	2	\$ 90.00
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	0.8	\$ 36.00
Total labour cost			\$ 4,665.50

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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Section C: Summary Table of Total Repair Cost

Description		Cost	
Damaged Parts Assessment (See section A)		\$13,359.53	
Lump Sum		\$2,671.91	
Further discount	20%		
Recommended cost of parts replacement		\$10,687.62	(1)
Labour Cost Calculation (See section B)		\$4,665.50	(2)
Total Repair Cost (Round off to hundred)		\$15,300.00	(1) + (2)

We would recommend a sum of \$15,300.00 and 14 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.MJES, 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)

total: 14676.78
1/5: 11.7K.
12 Days.

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