

Our reference: 21-8041
Date: 29/8/2021

INVOICE NO. 8041

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

Registration No. **SLQ7220D**

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	\$864.00
Total amount			<u><u>\$864.00</u></u>

Please kindly cross all cheques made payable to "Impact Analysis Consultant".

We thank you in anticipation for your prompt payment.



L. L. Tan (Ms)
Principal Consultant

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• IA Accounting & Consultancy Pte Ltd • Infoknights International Services (Philippines) • IABN Pte Ltd
www.iaconsultingsg.com

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#03-46 Premier@KB
Singapore 415875

Dear Sirs

**RE: Road Traffic Accident on 18/8/2021
Tan Kuan Joong**

In accordance with your instructions received in this office on **19/8/2021**, we made arrangements to examine the vehicle on **19/8/2021** at above-mentioned address. The following data was recorded:

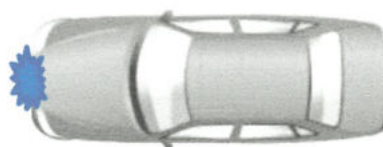
Vehicle details

Make	Hyundai	Registration	SLQ7220D
Model	Elantra	Chassis	KMHD841CMJU509382
Colour	Blue	Gearbox	Auto
Odometer	*	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 **\$16,321.61** and **10** 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	895.12	895.12
Bonnet hinge @\$65.30	2	bent	130.60	130.60
Bonnet lock	1	damaged.jammed	121.50	121.50
Bonnet insulator	1	crumpled	165.40	165.40
Bonnet cable bracket	1	bent	45.80	45.80
Front bumper	1	crushed	952.30	952.30 498.20
Front bumper lower lid (rubber)	1	torn	166.90	166.90
Front bumper side retainer @\$36.50	2	cracked	73.00	73.00
Front bumper top rubber	1	abraded	58.90	58.90
Front bumper sponge	1	compressed.torn	221.00	221.00 130.20
Front bumper lower beam (plastic)	1	cracked	168.70	168.70
Front bumper inner rail guide	1	broken	185.10	185.10
Front bumper reinforcement	1	bent	515.10	515.10 435
Front bumper bracket @\$98.96	2	bent	197.92	197.92
Front bumper under cover	1	damaged	185.40	185.40
Front bumper lower grille	1	damaged	195.60	195.60
Front bumper fog lamp @\$265.70	2	damaged	531.40	531.40
Front bumper fog lamp garnish @\$95.00	2	damaged	190.00	190.00
Front bumper tow cover	1	dislodged	35.50	35.50
Front bumper air curtain	1	damaged	198.75	198.75
Front radiator grille outer chrome	1	broken	422.00	422.00 395.50
Front radiator grille assy	1	broken	298.90	298.90
Front radiator grille logo	1	necessary	52.00	52.00
Front support panel (plastic)	1	broken	711.20	711.20
Front support panel top garnish	1	cracked	175.00	175.00
Headlamp @\$1254.80 @763.80	2	cracked	2509.60	2509.60 1527.60

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Headlamp bracket (plastic) @\$102.50	2	cracked	205.00	205.00	
Horn	1	cut	99.00	99.00	
Horn bracket	1	bent	29.00	29.00	
Radiator	1	crushed	1042.50	1042.50	685.20
Radiator fan motor	1	ceased	322.00	322.00	
Radiator fan cowling	1	damaged	215.00	215.00	
Radiator fan blade	1	damaged	201.00	201.00	
Radiator bracket @\$38.50	2	damaged	77.00	77.00	
Radiator spare tank	1	deformed	122.00	122.00	
Radiator side garnish @\$55.20	2	cracked	110.40	110.40	
Radiator neck c/w cap	1	crackd	114.00	114.00	
Radiator fan sensor	1	damaged	75.90	75.90	
Aircon condenser	1	crushed	1125.00	1125.00	526.80
Aircon condenser pipes	set	bent	289.50	289.50	
Air filter box	1	cracked	312.00	312.00	
Air filter box inlet duct	1	damaged	221.00	221.00	
Air filter box connection joint	1	cracked	185.00	185.00	
Resonator box	1	cracked	275.80	275.80	
Aircon condenser thermostat	1	broken	102.50	102.50	
Aircon condenser thermostat cable	1	torn	99.00	99.00	
Manifold cover	1	cracked	425.50	425.50	
Front fender rh	1	crushed	598.10	598.10	
Front fender inner shield rh	1	refix	113.20	0.00	xnn
Front chassis member lh - bent	1	re-straighten	548.90	0.00	xR
Front fender inner panel rh	1	repair.respray	322.10	0.00	xR
Sub- Total cost			16633.09	15648.89	
Percentage discount : 20%			3326.62	3129.78	13059.89
Sub-Total costs for parts			13306.47	12519.11	10447.91

Special Nett Items:

Front bumper clips	set	necessary	50.00	50.00	30
Front number plate garnish	1	necessary	95.00	95.00	15

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Front number plate	1	missing	50.00	50.00	30
Front wire harness	1	abraded	150.00	150.00	
Front radiator grille clips	set	damaged	20.00	20.00	
Front support panel top garnish clips	set	necessary	20.00	20.00	
Sub-Total costs for parts			385.00	385.00	265

Parts Repair

*	*	*	0.00	0.00	
Sub- Total costs			0.00	0.00	
Total costs for parts			13691.47	12904.11	

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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	1200
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 1,100.00	1000
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 60.00	40
Remove / replace aircon condenser and refill aircon gas	\$ 45.00	3	\$ 135.00	100
Remove / refix radiator, top up coolant & conduct pressure test	\$ 45.00	2	\$ 90.00	60
Specialist charges - Dignostic fault code / reset			\$ 100.00	
Specialist charges - Conduct front chassis alignment	-	-	\$ 200.00	
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	1.5	\$ 67.50	30
Total labour cost			\$ 3,417.50	2730

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.

13,442.91
l/s\$10,750
8 days

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Section C: Summary Table of Total Repair Cost

Description		Cost
Damaged Parts Assessment (See section A)		\$12,904.11
Labour Cost Calculation (See section B)		\$3,417.50
Total cost		\$16,321.61
Part-By-Part		\$0.00
Further discount	0%	
Total Repair Cost		\$16,321.61

We would recommend a sum of **\$16,321.61** and **10** 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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