

Our reference: 22-170805

Date: 22-06-2022

INVOICE NO. 170805

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

Registration No. **SKR6616J**

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	\$ 710.00
Total amount			<u><u>\$ 710.00</u></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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Dear Sirs

**RE: Road Traffic Accident on 4/6/2022
Ong Yen Sheng**

In accordance with your instructions received in this office on **8/6/2022**, we made arrangements to examine the vehicle on **8/6/2022** at above-mentioned address. The following data was recorded:

Vehicle details

Make	BMW	Registration	SKR6616J
Model	218i Active Tourer D/AB	Chassis	WBA2A32090VZ50863
Colour	Blue	Gearbox	Auto
Odometer	107093km	Paintwork	Good
Steering	In order	Brakes	In order
Condition	Good		

Tyre Depths

Front left	205/55R17	80% Michelin
Front right	205/55R17	80% Michelin
Rear left	205/55R17	80% Michelin
Rear right	205/55R17	80% Michelin

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 **\$8,900.00** and **7** 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 :				
Rear bumper	1	deformed	1120.00	1120.00
Rear bumper side retainer @\$165.00	2	cracked	330.00	330.00
Rear bumper centre bracket @\$124.00	2	cracked	248.00	248.00
Rear bumper tow cover	1	misalign.reuse	52.00	0.00
Rear bumper reinforcement	1	distorted	548.00	548.00
Rear bumper protector lh	1	deformed.holder fractured	38.85	38.85
Rear bumper kick foot sensor top	1	bent.malfunction	156.00	156.00
Rear bumper kick foot sensor bottom	1	bent.malfunction	145.00	145.00
Rear bumper kick foot sensor bracket	1	cracked	184.00	184.00
Tailgate smart opener module	1	malfunction	235.00	235.00
Antenna sensor	1	check.serviceable	162.00	0.00
Reverse sensor @\$249.95	4	3pcs malfunction	999.80	749.85
Reverse sensor holder @\$8.50	4	necessary	34.00	34.00
Rear lamp lh	1	misalign.holder broken	698.00	698.00
Tailgate	1	buckled	1320.00	1320.00
Tailgate windscreen moulding	1	necessary	284.00	284.00
Tailgate damper @\$355.65	2	check.refix	711.30	0.00
Tailgate lock	1	dented	223.00	223.00
Tailgate striker	1	bent	59.80	59.80
Tailgate lamp lh	1	defaced holder broken	374.00	374.00
Tailgate "218i" emblem	1	necessary	89.00	89.00
Tailgate "BMW logo" emblem	1	necessary	112.00	112.00
Tailgate weatherstrip	1	deformed	188.00	188.00
Tailgate inner trim board	1	holder fractured	512.00	512.00
Rear end panel - bent	1	repair.respray	545.00	0.00
Rear end panel garnish	1	fractured	178.00	178.00

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Exhaust silencer	1	chipped.bent	1010.00	1010.00
Exhaust pipe head shield	1	deformed	223.50	223.50
Sub- Total cost			10780.25	9060.00
Percentage discount : 5%			539.01	453.00
Sub-Total costs for parts			10241.24	8607.00

Special Nett Items:

Rear bumper clips	set	necessary	50.00	50.00
Rear end panel sealant	1	not nec	40.00	0.00
Tailgate windscreen sealant	1	necessary	80.00	80.00
Tailgate inner trim clips	set	necessary	40.00	40.00
Sub-Total costs for parts			210.00	170.00

Parts Repair

*	*	*	0.00	0.00
Sub- Total costs			0.00	0.00
Total costs for parts			10451.24	8777.00

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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	19	\$ 855.00
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 750.00
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 50.00
Remove and refix rear windscreen (2 man-job)	\$ 45.00	3.5	\$ 157.50
Transfer of existing tailgate mechanism to new tailgate	\$ 45.00	2	\$ 90.00
Conduct water leak test for rear portion associated repair works	\$ 45.00	1	\$ 45.00
Remove and replace rear exhaust pipe	\$ 45.00	2	\$ 90.00
Remove and replace rear reverse sensor	\$ 45.00	1.8	\$ 81.00
Specialist charges - Check/Diagnostic and reprogramming	-	-	\$ 200.00
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	0.8	\$ 36.00
Total labour cost			\$ 2,354.50

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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Practicing Management Consultant (PMC) of SBACC
Approved Training Organisation (ATO) of Workforce Singapore

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Section C: Summary Table of Total Repair Cost

Description		Cost
Damaged Parts Assessment (See section A)		\$8,777.00
Labour Cost Calculation (See section B)		\$2,354.50
Total cost		\$11,131.50
Lump Sum		\$2,226.30
Further discount	20%	
Total Repair Cost		\$8,900.00

We would recommend a sum of **\$8,900.00** and **7** 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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