

Our reference: 22 - 170676

Date: 20/05/2022

c/o Garage 13 Pte Ltd
8 Kaki Bukit Ave 4
#02-55 Premier@KB
Singapore 415875

Dear Sirs

RE: Road Traffic Accident on 05-05-2022
Yeo Kok Chuan

In accordance with your instructions received in this office on 06-05-2022, we made arrangements to examine the vehicle on 06-05-2022 at above-mentioned address. The following data was recorded:

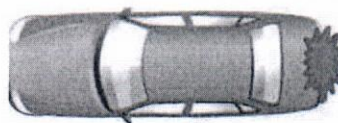
Vehicle details

Make	Volkswagen	Registration	SJK5777H
Model	Sharan 2.0 TSI	Chassis	WVWZZZ7NZJV039095
Colour	Grey	Gearbox	Auto
Odometer	91355km	Paintwork	Fair
Steering	In order	Brakes	In order
Condition	Fair		

Tyre Depths

Front left	225/50R17	85% Continental
Front right	225/50R17	85% Continental
Rear left	225/50R17	85% Continental
Rear right	225/50R17	85% Continental

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 \$13,600.00 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.

Subsidiaries of Impact Analysis:

• Impact Analysis Consultant • IABN Pte Ltd • Impact Analysis Solution Pte Ltd

- CT1

PS - Store

Impact Analysis Consulting Pte Ltd

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

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

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Section A: Damaged Parts Assessment

Part's Description	Qty	Condition As inspected	Repairer's Estimate	Our Adjustment
<u>List Items :</u>				
Rear bumper	1	deformed	1226.25	1226.25 ✓
Rear bumper side retainer @\$69.65	2	cracked.nec	139.30	139.30 ✓
Rear bumper reflector @\$53.05	2	rh misalign/fractured lh refix	106.10	53.05 X nn
Rear bumper tow cover	1	fractured	42.30	42.30 ✓
Rear bumper lower lid	1	deformed.fractured	322.00	322.00 ✓ X NN
Rear bumper reinforcement	1	bent	709.95	709.95 ✓
Rear bumper sponge	1	compressd.torn	114.65	114.65 ✓
Rear bumper energy absorber	1	cracked	212.90	212.90 X nn NS
Rear bumper reverse sensor @\$195.20	2 →	3 malfunction	1171.20	585.60 390.40
Rear lamp @\$651.80	(RH) 1 →	rh chipped/holder broken lh refix	1303.60	651.80 ✓
Rear lamp side bracket @\$27.55	2	cracked	55.10	55.10 X nn
Rear number plate lamp @\$62.50	2	holder broken	125.00	125.00 X nn
Rear end panel	1	distorted	712.35	712.35 ✓ XR
Rear end panel garnish	1	cracked	293.45	293.45 X nn
Tailgate	1	distorted	2887.85	2887.85 2346 ✓
Tailgate lamp @\$668.55	(RH) 1 →	rh broken lh holder broken	1337.10	1337.10 668.55
Tailgate "VW" logo emblem	1	necessary	85.90	85.90 ✓
Tailgate "SHARAN" emblem	1	necessary	78.50	78.50 ✓
Tailgate windscreen	1	shattered	1895.45	1895.45 ✓ 1316
Tailgate wiper arm	1	bent	165.80	165.80 ✓
Tailgate wiper blade	1	bent	58.60	58.60 ✓
Tailgate wiper motor regulator	1	malfunction	658.00	658.00 X nn
Tailgate lock	1	bent	592.35	592.35 ✓ 301
Tailgate lock garnish	1	deformed	32.20	32.20 ✓ X NN
Tailgate outer handle with camera	1	check.serviceable	1093.05	0.00 X nn
Tailgate damper @\$915.65	2	malfunction	1831.30	1831.30 X nn
Tailgate weatherstrip	1	necessary	281.65	281.65 X nn

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Tailgate inner trim board	1	holder fractured	883.75	883.75	X nn
Tailgate opening/closing switch	1	check.serviceable	325.60	0.00	X nn
Sub- Total cost			18741.25	16032.15	10,232.35
Percentage discount : 10%			1874.13	1603.22	-10%
Sub-Total costs for parts			16867.13	14428.94	9209.11

Special Nett Items:

Rear bumper clips	set	necessary	60.00	60.00	30
Tailgate windscreen solar film	1	necessary	280.00	280.00	150
Rear number plate with casing	1	dented	60.00	60.00	45 X NN
Tailgate inner trim board clips	set	necessary	40.00	40.00	X nn ✓ 20
Tailgate windscreen sealant	1	necessary	60.00	60.00	40
Rear end panel sealant	1	necessary	40.00	40.00	30 X nn
Sub-Total costs for parts			540.00	540.00	205

Parts Repair

*	*	*	0.00	0.00	
Sub- Total costs			0.00	0.00	
Total costs for parts			17407.13	14968.94	

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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	30
Remove and refix tail gate windscreen (2 man-job)	\$ 45.00	3	\$ 135.00	120
Transfer tailgate mechanism	\$ 45.00	2	\$ 90.00	80
Conduct water leak test for rear portion associated repair works	\$ 45.00	1	\$ 45.00	×
Remove and refix rear reverse camera & conduct distance safety setting	\$ 45.00	1.7	\$ 76.50	30
Remove and replace rear reverse sensor	\$ 45.00	1.8	\$ 81.00	30
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	0.8	\$ 36.00	30
Total labour cost			\$ 2,118.50	1925

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.

11,339.11

6 days

L/S - 9071.28
= 9050

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Section C: Summary Table of Total Repair Cost

Description		Cost
Damaged Parts Assessment (See section A)		\$14,968.94
Labour Cost Calculation (See section B)		\$2,118.50
Total cost		\$17,087.44
Lump sum repair		\$3,417.49
Further discount	20%	
Total Repair Cost		\$13,600.00

We would recommend a sum of \$13,600.00 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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