

Our reference: 20-02-9108

Date: 5/3/2020

INVOICE NO. 9108

GS Auto Empire
c/o JAS Auto Services
60 Jalan Lam Huat
#05-08/09 Carros Centre
Singapore 737869

Registration No. **GBD9780C**

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	\$ 723.00
Total amount			<u>\$ 723.00</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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c/o JAS Auto Services
60 Jalan Lam Huat
#05-08/09 Carros Centre
Singapore 737869

Dear Sirs

**RE: Road Traffic Accident on 21/2/2020
GS Auto Empire**

In accordance with your instructions received in this office on **24/2/2020**, we made arrangements to examine the vehicle on **24/2/2020** at above-mentioned address. The following data was recorded:

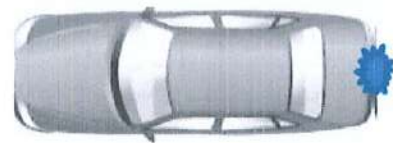
Vehicle details

Make	Toyota	Registration	GBD9780C
Model	Hiace 3.0	Chassis	KDH2015017074
Colour	Silver	Gearbox	Auto
Odometer	171795km	Paintwork	Good
Steering	In order	Brakes	In order
Condition	Good		

Tyre Depths

Front left	195R15C	85% Yokohama
Front right	195R15C	85% Yokohama
Rear left	195R15C	80% Bridgestone
Rear right	195R15C	80% Bridgestone

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 **\$9,500.00** and **9** 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 Consultant:

• Impact Analysis Consulting Pte Ltd • Impact Analysis Academy Pte Ltd • IA Racking Solutions Pte Ltd
• IA Accounting & Consultancy Pte Ltd • Infoknights International Services (Philippines) • IABN Pte Ltd

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Section A: Damaged Parts Assessment

Part's Description	Qty	Condition As inspected	Repairer's Estimate	Our Adjustment
List Items:				
Tail gate	1	bent	2358.80	2358.80
Tail gate inner trim	1	intact	325.80	0.00
Tail gate inner lock	1	bent	341.20	341.20
Tail gate outer garnish	1	serviceable	185.90	0.00
Tail gate logo	1	necessary	63.70	63.70
Tail gate weatherstrip	1	ripped	328.50	328.50
Tail gate emblem 'HIACE'	1	necessary	48.90	48.90
Tail gate shock absorber @\$215.00	1	serviceable	430.00	0.00
Tail gate striker @\$25.00	2	damaged	50.00	50.00
Rear bumper	1	deformed	568.70	568.70
Rear bumper side retainer @\$65.20	2	necessary	130.40	130.40
Rear bumper lower stay @\$22.60	3	bent	67.80	67.80
Rear tail lamp @\$291.80	2	cracked	583.60	583.60
Rear tail lamp lower panel @\$95.00	2	rh bent lh reuse	190.00	95.00
Rear tail lamp lower garnish bracket @\$41.90	2	damaged	83.80	83.80
Rear end panel outer	1	crushed	850.60	850.60
Rear end panel inner	1	crushed	445.80	445.80
Rear spare tyre bracket	1	distorted	398.50	398.50
Rear step panel	1	bent	215.00	215.00
Rear exhaust tail pipe	1	bent	598.50	598.50
Rear exhaust mid pipe	1	bent	624.30	624.30
Rear floor panel	1	repair	3124.00	0.00
Rear floor panel top aluminium strip	1	damaged	235.00	235.00
Rear fender air vent rh	1	deformed	110.00	110.00
Rear fender rh	1	repair.respray	2158.00	0.00

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Rear fender inner panel rh	1	repair	458.50	0.00
Tail lamp quarter panel @\$265.00	2	rh bent lh repair	530.00	265.00
Sub- Total costs			15505.30	8463.10
Percentage discount : 25%			3876.33	2115.78
Sub-Total costs for parts			11628.98	6347.33

Special Nett Items:

Rear bumper clip @\$5.00	10	necessary	50.00	50.00
Tail gate windscreen sealant	1	necessary	50.00	50.00
Rear spare trye	1	reuse	250.00	250.00
Tail gate '70KM/H' sticker	1	necessary	20.00	20.00
Rear bumper lower spoiler	1	damaged	650.00	650.00
Rear floor panel insulation	1	necessary	150.00	150.00
Sub- Total costs			1170.00	1170.00

Parts Repair

*	*	*	0.00	0.00
Sub- Total costs			0.00	0.00
Total costs for parts			12798.98	7517.33

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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
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 1,300.00
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 100.00
Wiring and bulb checking	\$ 45.00	0.5	\$ 22.50
Remove and replace rear exhaust system	\$ 45.00	2	\$ 90.00
Remove and refix tailgate rear windscreen glass. (2-man job)	\$ 45.00	3	\$ 135.00
Remove and refix upholstery to facilitate the repair works	\$ 45.00	3	\$ 135.00
Transfer of existing tailgate mechanism to new tailgate	\$ 45.00	1.8	\$ 81.00
Total labour cost			\$ 3,528.50

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)		\$7,517.33	
Further discount	20%	\$1,503.47	
Recommended cost of parts replacement		\$6,013.86	(1)
Labour Cost Calculation (See section B)		\$3,528.50	(2)
Total Repair Cost (Round off to hundred)		\$9,500.00	(1) + (2)

We would recommend a sum of **\$9,500.00** and **9** 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
SPRING- Recognised Certification for Management Consultants

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