

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

Our reference: 22 - 171104

Date: 21/12/2022

c/o Hui Wang Enterprise Pte Ltd
Blk 5 Defu Lane 10
#01-576
Singapore 539186

Dear Sirs

RE: Road Traffic Accident on 16/11/2022
Poh Tiong Choon Logistics Limited

In accordance with your instructions received in this office on 22/11/2022, we made arrangements to examine the vehicle on 22/11/2022 at above-mentioned address. The following data was recorded:

Vehicle details

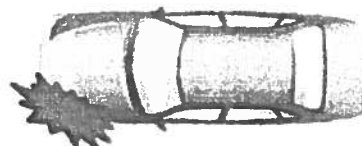
Make	Toyota	Registration	PC5801S
Model	Hiace 3.0 DX Manual	Chassis	KDH2010180584
Colour	White	Gearbox	Manual
Odometer	169487km	Paintwork	Fair
Steering	In order	Brakes	In order
Condition	Fair		

Tyre Depths

Front left	195R15C	75% Toyo
Front right	195R15C	75% Toyo
Rear left	195R15C	75% Toyo
Rear right	195R15C	75% Toyo

Status	REPAIRABLE
Magnitude	Medium
Legal status	Unroadworthy

Impact Direction & Area of Damage:



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 \$20,000.00 and 13 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:				
Front bumper	1	deformed	595.00	595.00 541 ✓
Front bumper reinforcement	1	bent	496.00	496.00 ✓
Front bumper centre beam	1	bent	264.50	264.50 ✓
Front bumper reinforcement bracket @\$89.20	2	rh bent lh refix	178.40	89.20 X R
Front bumper tow cover	1	refix	30.00	0.00 X nn
Front bumper side retainer @\$141.00	2	lh broken rh refix	282.00	141.00 ✓
Front bumper lower grille	1	deformed.torn	168.60	168.60 ✓
Front bumper side grille lh	1	deformed	86.50	86.50 ✓
Front windscreen glass	1	cracked	1350.00	1350.00 ✓
Front windscreen glass moulding	1	necessary	138.20	138.20 ✓
Bonnet	1	distorted	859.90	859.90 ✓
Bonnet logo	1	necessary	73.50	73.50 ✓
Bonnet hinge @\$68.60	2	twisted	137.20	137.20 X R
Bonnet lock	1	twisted	125.40	125.40 X nn
Wiper tank	1	deformed	140.00	140.00 ✓
Radiator tank	1	holder torn	250.00	250.00 ✓
Front wiper panel	1	distorted	715.00	715.00 X R
Front wiper panel grille garnish	1	deformed.torn	654.00	654.00 482 ✓
Front wiper panel garnish corner lh	1	cut	68.00	68.00 ✓
Front wiper linkage	1	refix	375.00	0.00 X nn
Front wiper motor	1	refix	486.00	0.00 X nn
Front wiper arm lh	1	bent	112.00	112.00 X nn
Front wiper blade lh	1	bent	55.00	55.00 ✓
Front support panel	1	distorted	667.52	667.52 589 ✓
Front brace panel	1	twisted	109.00	109.00 X nn
Head lamp LED @\$2716.00 2539	2	rh cracked.lh crushed	5432.00	5432.00 5078 ✓
Head lamp bracket lh	1	broken	20.00	20.00 ✓

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Radiator grille base	1	deformed.broken	402.00	402.00	✓
Radiator grille panel top	1	deformed.broken	214.70	214.70	✓
Radiator grille panel lower	1	deformed.broken	329.20	329.20	✓
Wiring harness cover box lh	1	broken	212.50	212.50	✗ nn
Front corner panel lh	1	distorted	285.50	285.50	✓
Front corner panel wing mirror assy lh	1	broken	328.20	328.20	✓
Front door side mirror lh	1	cut.cracked	429.60	429.60	✗ nn
Front door lh	1	buckled.warped	1623.20	1623.20	1438 ✓
Front door inner trim board lh	1	refix	653.90	0.00	✗ nn
Front door outer moulding lh	1	refix	142.00	0.00	✗ nn
Front door weatherstrip lh	1	refix	196.10	0.00	✗ nn
Front door hinge upper lh	1	bent	95.40	95.40	✗ nn
Front door hinge lower lh	1	bent	95.60	95.60	✗ nn
Front door check lh	1	stiffened	63.20	63.20	✗ nn
Front door lock lh	1	bent.jammed	481.70	481.70	✗ nn
Front widnscreen pillar "A" lh	1	distorted	529.50	529.50	✗ R
Front door step panel lh	1	distorted	296.80	296.80	✗ R
Front door step panel inner lh	1	repair.respray	188.50	0.00	✗ R
Front door step panel garnish lh	1	deformed.torn	179.24	179.24	✓
Air con condenser	1	bent.twisted	974.00	974.00	✗ nn
Radiator	1	twisted	1495.00	1495.00	✗ nn
Radiator cowling	1	torn	375.00	375.00	✓
Inter cooler	1	refix	1450.00	0.00	✗ nn
Inter cooler cowling	1	deformed	182.00	182.00	✗ nn
Inter cooler air guide @\$135.00	2	lh deformed/torn rh refix	270.00	135.00	✗ nn
Air con cooling coil	1	broken	1800.00	1800.00	✓
Air con blower	1	broken	1371.00	1371.00	✓
Dashboard	1	deformed.torn	1355.00	1355.00	✗ nn
			29887.56	26000.86	17,524.04
Percentage discount : 25%			7471.89	6500.22	-25%
Sub-Total costs for parts			22415.67	19500.65	13,143.03

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Special Nett Items:

Front bumper clips	set	necessary	40.00	40.00	30
Radiator grille clips	set	necessary	30.00	30.00	15
Coolant	1	necessary	50.00	50.00	X nn
Front windscreen glass sealant	1	necessary	60.00	60.00	40
Front door LTA sticker rh/lh	2	necessary	80.00	80.00	50
Front door inner trim board clips lh	set	necessary	40.00	40.00	X nn
ERP unit bracket	1	necessary	30.00	30.00	20
Front number plate	1	cracked	40.00	40.00	X nn
Sub-Total costs for parts			370.00	370.00	155

Parts Repair

Front door rh - grazed	1	repair.respray	0.00	0.00
Front floor panel lh - bent	1	repair.respray	0.00	0.00
Front chassis member lh	1	repair.respray	0.00	0.00
Front inner panel	1	repair.respray	0.00	0.00
Sub- Total costs			0.00	0.00
Total costs for parts			22785.67	19870.65

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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	35	\$ 1,575.00	1400
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 1,400.00	1000
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 100.00	30
Remove / replace aircon condenser and refill aircon gas	\$ 45.00	2.5	\$ 112.50	✓
Remove / refix inter cooler and radiator, top up coolant & conduct pressure test	\$ 45.00	3	\$ 135.00	50
Remove / replace front windscreen glass (2-man job)	\$ 45.00	2.5	\$ 112.50	✓
Transfer of existing lh front door mechanism to new door.	\$ 45.00	2	\$ 90.00	50
Remove and refix front cabin upholstery to facilitate the repair works	\$ 45.00	1.5	\$ 67.50	✓
To remove and refix dashboard and internal wiring	\$ 45.00	6	\$ 270.00	150
Specialist charges - Conduct front chassis alignment	-	-	\$ 250.00	×
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	1	\$ 45.00	30
Total labour cost			\$ 4,157.50	

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. 3002.50

16,300.53

10 days

L/S - 13,040.42
= 13,500.00

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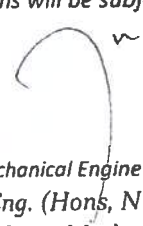
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Section C: Summary Table of Total Repair Cost

Description		Cost	
Damaged Parts Assessment (See section A)		\$19,870.65	
Lump Sum		\$3,974.13	
Further discount	20%		
Recommended cost of parts		\$15,896.52	(1)
Labour Cost Calculation (See section B)		\$4,157.50	(2)
Total Repair Cost (Round off to hundred)		\$20,000.00	(1) + (2)

We would recommend a sum of \$20,000.00 and 13 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

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