

Our reference: 21-10-8210

Date: 20/11/2021

c/o Vfix Auto Pte Ltd
7 Penjuru Close
#01-00 Soon Hock Holding Logistics Building
Singapore 608779

Dear Sirs

RE: Road Traffic Accident on 7/10/2021
LLMS Logistics Pte Ltd

In accordance with your instructions received in this office on 8/10/2021, we made arrangements to examine the vehicle on 8/10/2021 at above-mentioned address. The following data was recorded:

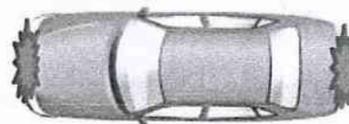
Vehicle details

Make	Toyota	Registration	SMX7076E
Model	Vios	Chassis	MR2B23F3X01165000
Colour	Silver	Gearbox	Auto
Odometer	36922km	Paintwork	Good
Steering	Good	Brakes	Good
Condition	Good		

Tyre Depths

Front left	185/60R15	85% Dunlop
Front right	185/60R15	85% Dunlop
Rear left	185/60R15	85% Dunlop
Rear right	185/60R15	85% Dunlop

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 \$20,903.07 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:				
Boot lid	1	buckled	765.80	765.80 ✓
Boot lid lock	1	bent-in.jammed	411.70	411.70 ✓
Boot lid logo	1	necessary	42.00	42.00 ✓
Boot lid emblem "Vios"	1	necessary	35.00	35.00 ✓
Boot lid emblem "E"	1	necessary	24.00	24.00 ✓
Boot lid hinge @\$95.41	(LH) 1	bent	190.82	190.82 95.41 ✓
Boot lid reflector @\$311.60	2	broken	623.20	623.20 ✓
Boot lid weatherstrip	1	ripped.nec	155.00	155.00 ✓
Boot lid lock catch	1	damaged	52.40	52.40 X NN
Boot lid inner trim	1	crumpled	198.00	198.00 X NN
Rear bumper	1	deformed	548.50	548.50 ✓
Rear bumper side retainer @\$85.30	2	cracked	170.60	85.30 ✓
Rear bumper reinforcement	1	crushed	365.20	365.20 ✓
Rear bumper reflector @\$79.80	(LH) 1	cracked	159.60	159.60 79.80 ✓
Rear end panel	1	crushed	681.00	681.00 ✓
Rear end panel top garnish	1	broken	144.80	144.80 ✓
Rear chassis extension @\$165.80	2	bent	331.60	331.60 X R
Tail lamp @\$395.20	2	cracked	790.40	790.40 ✓
Tail lamp panel @\$121.40	(LH) 1	bent	242.80	242.80 121.40 ✓
Rear spare tyre panel floor board	1	damaged	295.00	295.00 ✓
Rear spare tyre panel	1	crushed	752.30	752.30 ✓
Rear spare tyre floor panel sponge @\$145.50	2	reuse	291.00	0.00 X NN
Rear fender @\$792.80	(LH) 1	lh bent rh repair	1585.60	792.80 ✓
Rear fender inner panel lh	1	bent	245.40	245.40 ✓
Rear fender inner trim @\$296.50	2	reuse	593.00	0.00 X NN
Rear fender lower shield lh	1	damaged	75.00	75.00 X NN
Rear spare tyre bracket	1	damaged	55.70	55.70 X NN
Rear exhaust pipe * see labour for cost	1	rebuilt	568.90	0.00 X NN
Rear door lh	1	repair.respray	1295.00	0.00 X NN
Rear windscreen glass moulding	1	necessary	120.00	120.00 ✓
Front bumper	1	torn	498.70	498.70 ✓
Front bumper top grille	1	damaged	155.00	155.00 ✓
Front bumper reinforcement	1	bent	356.80	356.80 ✓
Front radiator grille	1	cracked	244.00	244.00 ✓
Front radiator grille logo	1	necessary	48.00	48.00 ✓
Front bumper lower grille	1	deformed	279.10	279.10 ✓
Front bumper fog lamp @\$210.00	2	reuse	420.00	0.00 X NN
Front bumper fog lamp garnish @\$89.50	2	rh damaged lh reuse	179.00	89.50 X NN
Front bumper tow cover	1	dislodged	29.00	29.00 ✓
Front chassis extension @\$235.00	2	repair	470.00	0.00 X NN
Brace panel	1	bent	123.11	123.11 ✓
Radiator side garnish top @\$88.90	2	cracked	177.80	177.80 ✓

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Radiator side garnish lower @\$134.50	2	cracked	269.00	269.00	✓
Headlamp @\$672.20	2	broken.cracked	1344.40	1344.40	✓
Headlamp top panel @\$154.12	2	bent	308.24	308.24	✓
Front support top panel	1	bent	771.00	771.00	✓
Front support lower panel	1	bent	554.00	554.00	✓
Front support top panel garnish	1	deformed	123.00	123.00	✓
Bonnet	1	buckled	712.40	712.40	✓
Bonnet hinge @\$43.20	2	twisted.bent	86.40	86.40	✓
Bonnet lock	1	damaged	99.00	99.00	✓
Bonnet insulator	1	reuse	198.40	0.00	X NN
Front fender @\$468.25	(RH) 1	rh bent lh repair	936.50	468.25	✓
Front fender cowling @\$139.05	2	reuse	278.10	0.00	X NN
Front fender corner garnish rh	1	cracked	65.70	65.70	X NN
Front air con condenser	1	bent	1105.00	1105.00	✓
Front radiator	1	bent.dented	1522.71	1522.71	✓
Front radiator fan motor	1	reuse	334.80	0.00	X NN
Front radiator fan blade	1	reuse	171.80	0.00	X NN
Front radiator fan cowling	1	reuse	210.49	0.00	X NN
Front wiper garnish	1	cracked	104.00	104.00	✓
Front door @\$1125.80	2	repair.respray	2251.60	0.00	X R
Sub- Total costs			26236.37	17717.43	
Percentage discount : 25%			6559.09	4429.36	
Sub-Total costs for parts			19677.28	13288.07	

Special Nett Items:

Rear bumper clips	set	necessary	45.00	45.00	30 ✓
Rear windscreen sealant	1	necessary	60.00	60.00	40 ✓
Reverse sensor	1	broken.malfunction	280.00	280.00	200 ✓
Reverse camera	1	refix	350.00	0.00	X NN
Rear end panel sealant	1	necessary	30.00	30.00	✓
Rear end panel top garnish clips	set	necessary	20.00	20.00	15 ✓
Rear floor panel seal	1	necessary	150.00	150.00	40 ✓
Rear fender inner trim clips	set	necessary	50.00	50.00	X NN
Rear fender sealant lh	1	necessary	40.00	40.00	30 ✓
Front bumper clips	set	necessary	45.00	45.00	30 ✓
Front number plate	1	damaged	50.00	50.00	40 ✓
Front radiator coolant	1	necessary	60.00	60.00	30 ✓
Sub-Total costs for parts			1180.00	830.00	

Parts Repair

*	*	*	0.00	0.00	
Sub- Total costs			0.00	0.00	
Total costs for parts			20857.28	14118.07	

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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.	\$ 50.00	61	\$ 3,050.00	2800 ✓
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 2,100.00	✓
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 150.00	50 ✓
Remove and rebuilt rear exhaust system	\$ 50.00	2.5	\$ 125.00	✗
Transfer of existing boot lid to new boot lid and refit the same	\$ 50.00	1.8	\$ 90.00	50 ✓
Conduct water leak test for rear portion associated repair works	\$ 50.00	1.5	\$ 75.00	30 ✓
Remove and refix upholstery, cushion seat & rear inner trims to facilitate the replacement of rear floor panel.	\$ 50.00	3	\$ 150.00	80 ✓
Remove and refix rear windscreen glass. (2-man job)	\$ 50.00	3.5	\$ 175.00	120 ✓
Remove and replace rear bumper reverse sensor & conduct distance safety setting.	\$ 50.00	1.7	\$ 85.00	30 ✓
Remove and refix rear reverse camera & conduct distance safety setting	\$ 50.00	1.7	\$ 85.00	30 ✓
Remove / replace radiator & conduct pressure test	\$ 50.00	1.5	\$ 75.00	30 ✓
Specialist charges - Check/Dignostic and reprogramming			\$ 100.00	✗
Specialist charges - Conduct rear chassis alignment	-	-	\$ 250.00	✗
Remove and refix fuel tank, pipes to facilitate the repair works	\$ 50.00	1.5	\$ 75.00	50 ✓
Remove / replace aircon condenser and refill aircon gas	\$ 50.00	2.5	\$ 125.00	30 ✓
Wiring and bulb checking	\$ 50.00	1.5	\$ 75.00	30 ✓
Total labour cost			\$ 6,785.00	

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 days

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Section C: Summary Table of Total Repair Cost

Description		Cost	
Damaged Parts Assessment (See section A)		\$14,118.07	
Part - By - Part		\$0.00	
Further discount	0%		
Recommended cost of parts		\$14,118.07	(1)
Labour Cost Calculation (See section B)		\$6,785.00	(2)
Total Repair Cost (Round off to hundred)		\$20,903.07	(1) + (2)

We would recommend a sum of \$20,903.07 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
ACTA certified Trainer, Singapore
SPRING- Recognised Certification for Management Consultants*

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