

Our reference: 21-7935

Date: 24/7/2021

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

Dear Sirs

**RE: Road Traffic Accident on 12/7/2021
HWV Rental Pte Ltd**

In accordance with your instructions received in this office on **14/7/2021**, we made arrangements to examine the vehicle on **14/7/2021** at above-mentioned address. The following data was recorded:

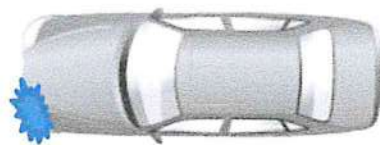
Vehicle details

Make	Nissan	Registration	GBG4627E
Model	NV200	Chassis	VSKYBAM20Z0145443
Colour	Silver	Gearbox	Manual
Odometer	56761km	Paintwork	Good
Steering	In order	Brakes	In order
Condition	Good		

Tyre Depths

Front left	175/70R14C	85% Dunlop
Front right	175/70R14C	85% Dunlop
Rear left	175/70R14C	85% Dunlop
Rear right	175/70R14C	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 **\$17,200.00** 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 fender lh ✓	1	crushed	542.80	542.80 ✓
Front fender rh - slightly warped	1	repair.respray	542.80	0.00
Front fender inner cowling lh ✓	1	crushed	102.00	102.00 ✓
Front fender bracket lh X SVC	1	damaged	58.00	58.00
Front fender lamp lh ✓	1	broken	71.00	71.00 ✓
Front fender inner sponge (vertical) lh X SVC	1	compressed	85.90	85.90
Front fender top garnish lh ✓	1	deformed	112.00	112.00 ✓
Front fender inner panel lh ✓	1	crushed	499.70	499.70 ✓
Front fender inner panel lower lh ✓	1	bent	265.80	265.80 ✓
Front wheel house panel lh X Repair	1	crushed	615.80	615.80
Front windscreen pillar "A" lh	1	repair	422.50	0.00
Front bumper ✓	1	torn	655.40	655.40 541.5
Front bumper fog lamp lh ✓	1	damaged	201.00	201.00 ✓
Front bumper sponge ✓	1	torn	185.45	185.45 ✓
Front bumper reinforcement ✓	1	bent	421.00	421.00 ✓
Front bumper side retainer @\$35.20 ✓	2	cracked	70.40	70.40 ✓
Front bumper tow hook cover ✓	1	deformed	29.50	29.50 ✓
Bonnet ✓	1	buckled	897.10	897.10 ✓
Bonnet hinges @\$89.80 ✓	2	bent	179.60	179.60 130.4
Bonnet lock assy ✓	1	distorted.jammed	195.80	195.80 65.3
Front centre top panel ✓	1	bent	412.50	412.50 ✓
Dashboard panel	1	repair	526.00	0.00
Head lamp @\$598.50 ✓	2	cracked	1197.00	1197.00 ✓
Head lamp lower garnish @\$102.50 ✓	2	rh-torn / lh-missing	205.00	205.00 ✓
Head lamp top panel ✓	1	bent	708.10	708.10 231.9
Head lamp vertical panel X Repair	1	bent	133.50	133.50

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Radiator grille assy ✓	1	cracked	410.00	410.00	303.3
Radiator grille lower silver strip X SVC	1	grazed	104.00	104.00	
Radiator logo ✓	1	necessary	65.00	65.00	✓
Front windscreen glass ✓	1	cracked	1191.10	1191.10	✓
Front windscreen glass moulding ✓	1	necessary	203.00	203.00	175
Front windscreen garnish ✓	1	deformed	165.40	165.40	✓
Front windscreen side garnish lh ✓	1	cut	112.00	112.00	65
Front windscreen garnish moulding X SVC	1	deformed	132.00	132.00	
Dashboard console centre cover X SVC	1	deformed.dislodged	261.10	261.10	
Front wiper arm lh X SVC	1	bent	141.10	141.10	
Front door lh - slightly bent	1	repair.respray	1021.50	0.00	
Radiator fan motor assy X SVC	1	cracked	421.10	421.10	
Radiator tank ✓	1	deformed	126.50	126.50	104
Radiator side garnish ✓	1	damaged	130.00	130.00	✓
Air duct ✓	1	cracked	211.00	211.00	147
Air cleaner box ✓	1	cracked	236.50	236.50	✓
Glow plug timer relay ✓	1	cracked	150.00	150.00	✓
Glow plug timer control module X SVC	1	cracked	370.10	370.10	
Fuse box ✓	1	cracked	299.00	299.00	185
Front wireharness and control wiring X SVC	1	abraded	150.00	150.00	
Engine control unit (ECU) * see labour cost	1	diagnosis SVC	854.50	0.00	
Engine control unit bracket X SVC	1	bent	98.75	98.75	
Front shock absorber lh X SVC	1	bent	295.50	295.50	
Front shock absorber top mounting lh X SVC	1	damaged	108.90	108.90	
Front knuckle arm lh X SVC	1	bent	485.00	485.00	
Front wheel bearing lh X SVC	1	necessary	164.00	164.00	
Front wheel bearing hub lh X SVC	1	necessary	226.40	226.40	
Front lower arm lh X SVC	1	bent	275.80	275.80	
Front linkage arm lh X SVC	1	bent	155.00	155.00	
Front tie rod outer lh X SVC	1	bent	135.60	135.60	
Sub- Total cost			18035.50	14668.20	9098.65
Percentage discount : 10%			1803.55	1466.82	
Sub-Total costs for parts			16231.95	13201.38	8188.78

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Special Nett Items:

Front IU bracket ✓	1	necessary	125.00	125.00	25
Front windscreen glass sealant ✓	1	necessary	60.00	60.00	✓
Front fender quarter glass with moulding lh ✓	1	shattered	325.80	325.80	252
Battery ✓	1	cut	250.00	250.00	120
Radiator ✓	1	cracked	965.70	965.70	473
Aircon condenser ✓	1	damaged	891.20	891.20	473
Front number plate ✓	1	bent	50.00	50.00	40
Front tyre lh X SVC	1	deformed	280.00	238.00	
Front hup cap lh c/w with set X SVC	set	cut	650.00	650.00	
Front rim lh X SVC	1	damaged	598.50	598.50	
Front bumper clips ✓	set	necessary	45.00	45.00	40
Sub-Total costs for parts			4241.20	4199.20	1483

Parts Repair

*	*	*	0.00	0.00
Sub- Total costs			0.00	0.00
Total costs for parts			20473.15	17400.58

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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	1200
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 1,450.00	1200
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 80.00	✓
Remove / replace aircon condenser and refill aircon gas	\$ 45.00	3	\$ 135.00	60
Remove and replace front windscreen (2 man-job)	\$ 45.00	3.5	\$ 157.50	120
Remove and replace front fender quarter glass lh	\$ 45.00	1	\$ 45.00	✓
Specialist charges - Engine control unit diagnostic / reset			\$ 200.00	100
Specialist charges - Wheel alignment	-	-	\$ 80.00	60
Remove and replace front undercarriage work lh	\$ 45.00	5	\$ 225.00	×
Remove / refix radiator, top up coolant & conduct pressure test	\$ 45.00	1.5	\$ 67.50	60
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	1.5	\$ 67.50	30
Total labour cost			\$ 4,172.50	2955

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.

12626.78

-20%: 10100

10 days

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Section C: Summary Table of Total Repair Cost

Description		Cost
Damaged Parts Assessment (See section A)		\$17,400.58
Labour Cost Calculation (See section B)		\$4,172.50
Total cost		\$21,573.08
Lump sum repair		\$4,314.62
Further discount	20%	
Total Repair Cost		\$17,200.00

We would recommend a sum of \$17,200.00 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)
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ACTA certified Trainer, Singapore
Enterprise Singapore - Recognised Certification for Management Consultants
IMI Professional Certificate In Vehicle Accident Damage Assessment (UK)

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