

Our reference: 22 - 170896

Date: 14/07/2022

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

Dear Sirs

**RE: Road Traffic Accident on 28-06-2022
YONGSHENG E&C PTE. LTD.**

In accordance with your instructions received in this office on **30-06-2022**, we made arrangements to examine the vehicle on **30-06-2022** at above-mentioned address. The following data was recorded:

Vehicle details

Make	Mazda	Registration	SLR4375E
Model	CX-3 XD TOURING 1.5 A/T DIESEL TURBO	Chassis	DK5FW131863
Colour	White	Gearbox	Auto
Odometer	84053km	Paintwork	Good
Steering	In order	Brakes	In order
Condition	Good		

Tyre Depths

Front left	225/50R18	75% Westlake
Front right	225/50R18	75% Westlake
Rear left	225/50R18	75% Westlake
Rear right	225/50R18	75% Michelin

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 **\$19,600.00** and **12** 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:

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Section A: Damaged Parts Assessment

Part's Description	Qty	Condition As inspected	Repairer's Estimate	Our Adjustment
List Items :				
Bonnet	1	buckled	1119.00	1119.00 ✓
Bonnet hinge @\$92.40	2	refix	184.80	0.00 ✕ nn
Bonnet lock	1	bent	215.00	215.00 ✓
Bonnet lock garnish	1	torn	16.90	16.90 ✓
Center grille	1	broken	565.80	565.80 ✓
Center grille emblem	1	necessary	96.00	96.00 ✓
Front bumper chrome garnish	1	broken	268.70	268.70 ✓
Front bumper	1	deformed	1195.50	1195.50 ✓
Front bumper number plate holder	1	deformed	76.90	76.90 ✓
Front bumper side retainer @\$65.80	2	cracked	131.60	131.60 ✓
Front bumper signal lamp @\$285.90 (RH)	1 2	broken	571.80	571.80 285.90 ✓
Front bumper signal lamp garnish @\$124.10 (RH)	1 2	deformed	248.20	248.20 124.10 ✓
Front bumper reinforcement	1	bent	598.00	598.00 ✓
Front bumper sponge	1	torn	221.00	221.00 ✓
Front bumper under cover	1	torn	160.50	160.50 ✕ nn
Headlamp @\$1515.00 (RH)	1 2	defaced,holder broken	3030.00	3030.00 1515 ✓
Front fender outer arch garnish lh	1	holder torn	166.50	166.50 ✓
Front support panel top garnish	1	deformed	114.50	114.50 ✓
Front support panel	1	cracked	815.00	815.00 ✓
Front support panel baffle	1	deformed	168.80	168.80 ✓
Air con condenser	1	dented.twisted	1215.00	1215.00 ✕ nn
Tail gate	1	distorted	1635.00	1635.00 ✓
Tail gate inner lock	1	bent in.jammed	416.70	416.70 ✓
Tail gate hinge @\$78.20	2	refix	156.40	0.00 ✕ nn
Tail gate damper @\$205.70	2	bent.stiffened	411.40	411.40 ✕ nn
Tail gate emblem 'logo'	1	necessary	115.00	115.00 ✓
Tail gate emblem 'CX-3'	1	necessary	82.00	82.00 ✓

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Tail gate emblem 'SKYACTIV'	1	necessary	92.00	92.00	✓
Tail gate lamp @\$492.30	2	holder broken	984.60	984.60	✗ nn
Tail gate inner trim board	1	torn	367.00	367.00	✓
Tail gate weatherstrip	1	ripped	256.30	256.30	✓
Tail gate pull holder	1	deformed	32.60	32.60	✓
Tail gate release switch	1	malfunction	148.30	148.30	✓
Tail gate wiper motor	1	bent.malfunction	413.00	413.00	✗ nn
Tail lamp @\$582.90	2	holder broken	1165.80	1165.80	✗ nn
Rear fender inner side trim @\$355.20	2	torn	710.40	710.40	✗ nn
Rear fender arch garnish @\$115.50	2	holder fractured	231.00	231.00	✓
Rear bumper	1	deformed	1207.00	1207.00	✓
Rear bumper side rainer @\$50.80	2	cracked	101.60	101.60	✓
Rear bumper reflector @\$167.50	2	cracked	335.00	335.00	✗ nn
Rear blind spot module lh	1	dented.malfunction	947.40	947.40	✗ nn
Rear blind spot module bracket lh	1	torn	70.50	70.50	✗ nn
Rear bumper reinforcement	1	bent	425.00	425.00	✓
Rear bumper lower bracket @\$106.20	2	torn	212.40	212.40	✓
Rear bumper lower inner garnish	1	torn	168.70	168.70	✓
Rear bumper lower inner garnish cover	1	torn	43.40	43.40	✓
Rear number plate lamp @\$71.80	2	cracked	143.60	143.60	✓
Rear end panel	1	distorted	568.80	568.80	✓
Rear end panel top garnish	1	deformed	92.00	92.00	✓
Rear floor panel	1	repair.repair	736.40	0.00	✗ R
Rear floor panel spare tyre sponge	1	torn.compressed	324.00	324.00	✓
Rear exhaust silencer	1	bent	1375.00	1375.00	✗ nn
Rear exhaust heat shield	1	deformed	58.00	58.00	✗ nn
Sub- Total cost			25205.80	24128.20	
Percentage discount : 20%			5041.16	4825.64	14,356.60 -20%
Sub-Total costs for parts			20164.64	19302.56	11,485.28

Special Nett Items:

Front bumper clip	set	necessary	50.00	50.00	30
Front number plate with casing	1	bent	55.00	55.00	45

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Bonnet insulation clip	set	necessary	40.00	40.00	X nn
Tail gate windscreen sealant	1	necessary	60.00	60.00	40
Rear bumper clip	set	necessary	50.00	50.00	30
Rear end panel sealant	1	necessary	40.00	40.00	30
Tail gate inner trim clip	set	necessary	40.00	40.00	15
Rear fender arch garnish clip rh/lh	2sets	necessary	60.00	60.00	15
Reverse camera	1	malfunction	550.00	550.00	250
Rear number plate with casing	1	bet	55.00	55.00	45
Sub-Total costs for parts			1000.00	1000.00	500

Parts Repair

Front fender rh/lh	*	*	0.00	0.00	
Sub- Total costs			0.00	0.00	
Total costs for parts			21164.64	20302.56	

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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	36	\$ 1,620.00	1500
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 1,700.00	1400
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 100.00	30
Remove / replace aircon condenser and refill aircon gas	\$ 45.00	3	\$ 135.00	120
Remove / refix radiator, top up coolant & conduct pressure test	\$ 45.00	2	\$ 90.00	50
Remove and refix rear windscreen (2 man-job)	\$ 45.00	3.5	\$ 157.50	120
Remove and refix upholstery and cushion seat to facilitate repair	\$ 45.00	2	\$ 90.00	80
Transfer tailgate mechanism	\$ 45.00	1.7	\$ 76.50	50
Conduct water leak test for rear portion associated repair works	\$ 45.00	1.5	\$ 67.50	30
Remove and replace rear exhaust system	\$ 45.00	2	\$ 90.00	50
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	1.5	\$ 67.50	30
Total labour cost			\$ 4,275.00	

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.

3490

15,475.28

10 days

L/S - 12,380.22
= 12,400.00

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Section C: Summary Table of Total Repair Cost

Description		Cost
Damaged Parts Assessment (See section A)		\$20,302.56
Labour Cost Calculation (See section B)		\$4,275.00
Total cost		\$24,577.56
Lump Sum		\$4,915.51
Further discount	20%	
Total Repair Cost		\$19,600.00

We would recommend a sum of **\$19,600.00** and **12** 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)