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PAR Automotive Consultancy

Regn. No: 52986974L

Thomson Rd Post Office PO Box 029 Singapore 915701. Tel : 645 31173, Fax : 645 36131.

Report No: 0413-19-TCA

14 October 2019

ACCIDENT VEHICLE SURVEY REPORT

Sathivel s/o Angudan
c/o Twincar Automotive Pte Ltd
2 Kaki Bukit Ave 2 #01-17
Kaki Bukit Auto Hub
Singapore 417921

VEHICLE INFORMATION:

Vehicle Reg No.:	SLW108K	Odometer:	183658km
Make & Model:	Mercedes Benz C230A	Colour:	Black
Chassis number:	WDD2040522A140047	Date of accident:	18/10/2018
Year of Regn.:	12/06/2009	Date inspected:	19/10/2019
Repairer at:	Twincar Automotive Pte Ltd 2 Kaki Bukit Ave 2 #01-17 Kaki Bukit Auto Hub Singapore 417921	Date inspected (After Repair):	29/10/2018

STATIC CHECKS, where applicable:

Steering :	serviceable
Footbrake :	serviceable
Handbrake :	serviceable
Paintwork :	Good
General condition :	Good

TIRE CONDITION:

	<u>LH / Make</u>	<u>RH / Make</u>	<u>Size</u>
Front:	6mm/Michelin	6mm/Michelin	225/40ZR18
Rear:	6mm/Michelin	6mm/Michelin	225/40ZR18

POINT OF IMPACT AND DAMAGE, where applicable:

Impact on the LH portion.
Please see details as described in the Annex for parts and labour.

REMARKS:

We have inspected the above-mentioned vehicle on a "Without Prejudice" basis.

Parts and Labour Assessment

PARTS

Description of part	Qty	Condition	Repairer's estimate	Our adjustment
FRONT BUMPER	1	squashed	1,425.00	1,425.00 / 1180
FRONT BUMPER LH DAYLIGHT	1	fractured	510.00	510.00 X SVC
FRONT BUMPER LH PARKING SENSOR	1	shorted	184.00	184.00 X SVC
FRONT BUMPER LH SIDE BRACKET	1	repair	96.00	0.00
FRONT BUMPER PARKING SENSOR 'O' RING	4	necessary	140.00	140.00 X SVC
FRONT BUMPER PARKING SENSOR HOLDER BRACKET	4	necessary	192.00	192.00 X SVC
FRONT GRILLE	1	reuse	710.00	0.00
FRONT GRILLE CENTER BRACKET	1	repair	24.00	0.00
FRONT LH ABS PIPE LINES	2	fractured	396.00	396.00 /
FRONT LH ABS SENSOR	1	shorted	226.00	226.00 X SVC
FRONT LH DOOR	1	buckled	2,210.00	2,210.00 X SVC
FRONT LH DOOR GLASS	1	scratched	472.00	472.00 /
FRONT LH DOOR GLASS CHANNEL WEATHERSTRIP	1	necessary	128.00	128.00 X SVC
FRONT LH DOOR INNER TRIM BOARD	1	reuse	1,365.00	0.00 SVC
FRONT LH DOOR OUTER MOULDING	1	necessary	121.00	121.00 X SVC
FRONT LH DOOR SIDE MIRROR	1	fractured	1,000.00	1,000.00 /
FRONT LH DOOR SIDE MIRROR COVER	1	fractured	370.00	370.00 /
FRONT LH DOOR SIDE MIRROR GLASS	1	scratched	258.00	258.00 /
FRONT LH DOOR SIDE MIRROR GLASS MOTOR	1	shorted	375.00	375.00 /
FRONT LH DOOR SIDE MIRROR LAMP	1	fractured	207.00	207.00 /
FRONT LH DOOR SIDE MIRROR LOWER COVER CAP	1	fractured	64.00	64.00 /
FRONT LH DOOR VERTICAL GARNISH	1	necessary	125.00	125.00 X SVC
FRONT LH DOOR WEATHERSTRIP	1	reuse	288.00	0.00
FRONT LH FENDER	1	buckled	873.00	873.00 /
FRONT LH FENDER INNER SHIELD (FRONT)	1	fractured	165.00	165.00 /
FRONT LH FENDER INNER SHIELD (REAR)	1	fractured	118.00	118.00 /
FRONT LH HEADLAMP	1	fractured	1,021.00	1,021.00 988
FRONT LH KNUCKLE ARM	1	distorted	775.00	775.00 /
FRONT LH KNUCKLE ARM BEARING	1	dislodged	157.00	157.00 /
FRONT LH LINKAGE	1	bent	71.00	71.00 /
FRONT LH LOWER ARM	1	bent	523.00	523.00 /
FRONT LH SHOCK ABSORBER COIL SPRING	1	reuse	216.00	0.00
FRONT LH SHOCK ABSORBER COIL SPRING RUBBER	1	necessary	81.00	81.00 /
FRONT LH SHOCK ABSORBER TOP MOUNTING	1	necessary	243.00	243.00 /
FRONT LH SHOCK ABSORBER TOP MOUNTING PLATE	1	reuse	121.00	0.00
FRONT LH TORSION ARM	1	bent	450.00	450.00 X SVC
FRONT LH WHEEL HUB	1	dislodged	492.00	492.00 /
LH SIDE ROCKER PANEL GARNISH	1	reuse	524.00	0.00
REAR LH DOOR	1	buckled	2,090.00	2,090.00 X
Subtotal before discount			S\$ 18,806.00	S\$ 15,462.00 8808
Percentage discount 10% and 10%			S\$ 1,880.60	S\$ 1,546.20
Sub-total 1			S\$ 16,925.40	S\$ 13,915.80 7927.2

FRONT BUMPER CLIPS - SET	1	necessary	50.00	50.00	/
FRONT LH 18" SPORT RIM	1	abraded	2,800.00	2,800.00	1200
FRONT LH DOOR INNER TRIM BOARD CLIPS - SET	1	necessary	50.00	50.00	X SVC
FRONT LH FENDER INNER SHIELD CLIPS - SET	1	necessary	50.00	50.00	X SVC
FRONT LH SHOCK ABSORBER HIGH PERFORMANCE - SET	1	broken	2,800.00	2,800.00	1800
FRONT LH TYRE	1	abraded	600.00	600.00	250
LH SIDE ROCKER PANEL GARNISH CLIPS - SET	1	necessary	50.00	50.00	X SVC
REAR LH DOOR INNER TRIM BOARD CLIPS - SET	1	necessary	50.00	50.00	X SVC
Subtotal before discount			S\$ 6,450.00	S\$ 6,450.00	3300
Sub-total 2			S\$ 6,450.00	S\$ 6,450.00	
Parts-total			S\$ 23,375.40	S\$ 20,365.80	

LABOUR

To reset system after repair works	400.00	400.00	X
To remove, reinstall electrical wiring harness, check lighting and rewire for parking sensor.	100.00	60.00	/
To remove, reinstall window glass. (to FR)	120.00	100.00	X
To remove, change front suspension parts, absorber, lower arm, knuckle arm, wheel bearing, bearing hub, drive shaft, anti-roll bar, top-arm and steering rack and pinion.	600.00	450.00	250
To road test driving, check and resetting wheel alignments system.	180.00	180.00	60
To re-spray painting on the change bodyparts, repair portion, and where consistent to the accident.	1,800.00	1,000.00	/
To provide labour, workmanship to change the above damaged bodyparts, repair, re-construct and re-align body structure, body alignments and damaged consistent to the accident.	1,600.00	1,250.00	800
To apply anti-rust chemical on repaired and replaced panel.	120.00	90.00	60
Labour Total	S\$ 4,920.00	S\$ 3,530.00	2230
Parts & Labour Total	S\$ 28,295.40	S\$ 23,895.80	

Results of inspection of the accident vehicle are as shown above.

We have taken into consideration the age and condition of the vehicle in our recommendation.

Hence, the recommended cost of repairs based on Lump Sum repairs is : S\$ 20,300.00 and the recommended number of working days for the repairs is within 10 day(s).

B J Loi (I Eng., MIMI, AIRTE)
Automotive Appraiser

13457.2

20%: 10750

PAR Automotive Consultancy

Regn. No. 52986974I.

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Chassis number:	WDD2040522A140047	Date of accident:	18/10/2018
Year of Regn.:	12/06/2009	Date inspected:	19/10/2019
Repairer at:	Twincar Automotive Pte Ltd 2 Kaki Bukit Ave 2 #01-17 Kaki Bukit Auto Hub Singapore 417921	Date inspected (After Repair):	29/10/2018

RE-INSPECTION

We had carried out re-inspection during works in progress and post repair inspection on the above vehicle. Attached in Annex B are the re-inspection photos, showing the work in progress and our re-inspection to the hidden part that were damaged.

REMARKS:

We have inspected the above-mentioned vehicle on a "Without Prejudice" basis.



LKK Auto Consultants Pte Ltd

51 Ubi Ave 1 #01-25 Paya Ubi Industrial Park, Singapore 408933

TEL: 6256 3561 FAX: 6256 4315

Reg. No: 199607198R GST Reg. No. 19-9607198-R

Affiliated to Federation Internationale Des Experts En Automobile

FWD SINGAPORE PTE LTD

Ref : CS3/FWD18019044/Gvd3s2-1

6 TEMASEK BOULEVARD

#18-01 SUNTEC TOWER 4 SINGAPORE 038986

Date : 29-11-2019



Code : FWD

1. Policy Particulars :- THIRD PARTY CLAIM

Insured Veh.	SGF 4489H	Veh. Inspected	SLW 108K
Policy No.	PNPV2018-00003401	Coverage (\$)	0.00
Claim No.	1201800013452	Excess (\$)	0.00
Assign From	JOSEY LOH	Assign Date	25/11/2019

2. Vehicle Particulars & Condition

Make & Model	MERCEDES BENZ C230	c.c	2496
Engine No.	HIDDEN	Year of Reg.	2009
Chassis No.	WDD2040522A140047	Colour	BLACK
Odometer	183658	Steering	IN ORDER
Brakes	IN ORDER	Modification	SPORTS RIM
General	GOOD		

3. Conditions of Tyres

	Size	Make	Balance
R/H Front Tyre	225/40 ZR18	MICHELIN	6 mm
L/H Front Tyre	225/40 ZR18	MICHELIN	6 mm
R/H Rear Tyre	225/40 ZR18	MICHELIN	6 mm
L/H Rear Tyre	225/40 ZR18	MICHELIN	6 mm

4. Description of Damages

THE VEHICLE SUSTAINED DAMAGES AT THE N/S BODY AND UNDERCARRIAGE.
DAMAGES SEE DETAILS.

5. General Information

Accident Date	18/10/2018	Inspection Date	19/10/2018
Survey held at	TWINCAR AUTOMOTIVE PTE LTD 2 KAKI BUKIT AVE 2 #01-17 KAKI BUKIT AUTOHUB SINGAPORE 417921		

5a. Remarks

A) THE INSPECTION WAS CONDUCTED ON A "WITHOUT PREJUDICE" BASIS.
B) IN ACCORDANCE TO YOUR INSTRUCTIONS, WE HAVE NOT AUTHORISED REPAIRS.

5b. Estimate Days of Repair

ESTIMATED NORMAL PERIOD FOR REPAIR:	8 Working Days
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ADJUSTMENT ON REPAIR COST FOR VEHICLE NO. SLW 108K

Qty	Description of Parts	Condition	Estimate By Workshop (\$)	Our Adjusted (\$)
	REPLACEMENT OF PARTS			
1	FRONT BUMPER	SQUASHED	1,425.00	1,180.00
1	FRONT BUMPER LH DAYLIGHT	SERVICEABLE	510.00	-
1	FRONT BUMPER LH PARKING SENSOR	SERVICEABLE	184.00	-
1	FRONT BUMPER LH SIDE BRACKET	TO REPAIR SEE LABOUR	96.00	-
4	FRONT BUMPER PARKING SENSOR 'O' RING	SERVICEABLE	140.00	-
4	FRONT BUMPER PARKING SENSOR HOLDER BRACKET	SERVICEABLE	192.00	-
1	FRONT GRILLE	SERVICEABLE	710.00	-
1	FRONT GRILLE CENTER BRACKET	TO REPAIR SEE LABOUR	24.00	-
2	FRONT LH ABS PIPE LINES	FRACTURED	396.00	396.00
1	FRONT LH ABS SENSOR	SERVICEABLE	226.00	-
1	FRONT LH DOOR	SERVICEABLE	2,210.00	-
1	FRONT LH DOOR GLASS	SCRATCHED	472.00	472.00
1	FRONT LH DOOR GLASS CHANNEL WEATHERSTRIP	SERVICEABLE	128.00	-
1	FRONT LH DOOR INNER TRIM BOARD	SERVICEABLE	1,365.00	-
1	FRONT LH DOOR OUTER MOULDING	SERVICEABLE	121.00	-
1	FRONT LH DOOR SIDE MIRROR	FRACTURED	1,000.00	1,000.00
1	FRONT LH DOOR SIDE MIRROR COVER	FRACTURED	370.00	370.00
1	FRONT LH DOOR SIDE MIRROR GLASS	SCRATCHED	258.00	258.00
1	FRONT LH DOOR SIDE MIRROR GLASS MOTOR	SHORTED	375.00	375.00
1	FRONT LH DOOR SIDE MIRROR LAMP	FRACTURED	207.00	207.00
1	FRONT LH DOOR SIDE MIRROR LOWER COVER CAP	FRACTURED	64.00	64.00
1	FRONT LH DOOR VERTICAL GARNISH	SERVICEABLE	125.00	-
1	FRONT LH DOOR WEATHERSTRIP	SERVICEABLE	288.00	-
1	FRONT LH FENDER	BUCKLED	873.00	873.00
1	FRONT LH FENDER INNER SHIELD (FRONT)	FRACTURED	165.00	165.00
1	FRONT LH FENDER INNER SHIELD (REAR)	FRACTURED	118.00	118.00
1	FRONT LH HEADLAMP	FRACTURED	1,021.00	988.00
1	FRONT LH KNUCKLE ARM	DISTORTED	775.00	775.00
1	FRONT LH KNUCKLE ARM BEARING	DISLODGE	157.00	157.00

Report Ref No. CS3/FWD18019044/Gvd3s2-1



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Qty	Description of Parts	Condition	Estimate By Workshop (\$)	Our Adjusted (\$)
1	FRONT LH LINKAGE	BENT	71.00	71.00
1	FRONT LH LOWER ARM	BENT	523.00	523.00
1	FRONT LH SHOCK ABSORBER COIL SPRING	SERVICEABLE	216.00	-
1	FRONT LH SHOCK ABSORBER COIL SPRING RUBBER	NECESSARY	81.00	81.00
1	FRONT LH SHOCK ABSORBER TOP MOUNTING	NECESSARY	243.00	243.00
1	FRONT LH SHOCK ABSORBER TOP MOUNTING PLATE	SERVICEABLE	121.00	-
1	FRONT LH TORSION ARM	SERVICEABLE	450.00	-
1	FRONT LH WHEEL HUB	DISLodge	492.00	492.00
1	LH SIDE ROCKER PANEL GARNISH	SERVICEABLE	524.00	-
1	REAR LH DOOR	SERVICEABLE	2,090.00	-
	LESS 10% DISCOUNT		-1,880.60	-880.80
			16,925.40	7,927.20
	<u>SPECIAL NETT ITEMS</u>			
1	SET FRONT BUMPER CLIPS (SN)	NECESSARY	50.00	50.00
1	FRONT LH 18" SPORT RIM (SN)	ABRADED	2,800.00	1,200.00
1	SET FRONT LH DOOR INNER TRIM BOARD CLIPS (SN)	SERVICEABLE	50.00	-
1	SET FRONT LH FENDER INNER SHIELD CLIPS (SN)	SERVICEABLE	50.00	-
1	SET FRONT LH SHOCK ABSORBER HIGH PERFORMANCE (SN)	BROKEN	2,800.00	1,800.00
1	FRONT LH TYRE (SN)	ABRADED	600.00	250.00
1	SET LH SIDE ROCKER PANEL GARNISH CLIPS (SN)	SERVICEABLE	50.00	-
1	SET REAR LH DOOR INNER TRIM BOARD CLIPS (SN)	SERVICEABLE	50.00	-
			6,450.00	3,300.00
	<u>LABOUR</u>			
	TO RESET SYSTEM AFTER REPAIR WORKS.	NOT NECESSARY	400.00	-
	TO REMOVE, REINSTALL ELECTRICAL WIRING HARNESS, CHECK LIGHTING AND REWIRE FOR PARKING SENSOR.		100.00	60.00
	TO REMOVE, REINSTALL WINDOW GLASS. (TO FR)	NOT NECESSARY	120.00	-
	TO REMOVE, CHANGE FRONT SUSPENSION PARTS, ABSORBER, LOWER ARM, KNUCKLE ARM, WHEEL BEARING, BEARING HUB, DRIVE SHAFT, ANTI-ROLL BAR, TOP-ARM AND STEERING RACK AND PINION.		600.00	250.00
	TO ROAD TEST DRIVING, CHECK AND RESETTNG WHEEL ALIGNMENTS SYSTEM.		180.00	60.00

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Qty	Description of Parts	Condition	Estimate By Workshop (\$)	Our Adjusted (\$)
	TO RE-SPRAY PAINTING ON THE CHANGE BODYPARTS, REPAIR PORTION, AND WHERE CONSISTENT TO THE ACCIDENT.		1,800.00	1,000.00
	TO PROVIDE LABOUR, WORKMANSHIP TO CHANGE THE ABOVE DAMAGED BODYPARTS, REPAIR, RE-CONSTRUCT AND RE-ALIGN BODY STRUTURE, BODY ALIGNMENTS AND DAMAGED CONSISTENT TO THE ACCIDENT. INCLUSIVE OF THE REPAIR OF FRONT BUMPER LH SIDE BRACKET AND FRONT GRILLE CENTER BRACKET.		1,600.00	800.00
	TO APPLY ANTI-RUST CHEMICAL ON REPAIRED AND REPLACED PANEL.		120.00	60.00
			4,920.00	2,230.00
GRAND TOTAL			28,295.40	13,457.20
RECOMMENDED COST OF LUMP SUM REPAIRS (TO ITS PRE-ACCIDENT CONDITION)				10,750.00

Report Ref No. CS3/FWD18019044/Gvd3s2-1

XING GUO QIANG

M.MATAI, AMSAE-A

Automotive Assessor

ADRIAN LING WAI PING

B.Eng,AMSOE,AMIRTE,AMSAE-A,M.MATAI

Licensed Appraiser

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