































































1 1



PEOPLES AUTO TRADING BLK 3007 UBI ROAD 1 #01-400 TEL 6741 4646



COMPUTERIZED ALIGNMENT SPECIALISTS

CUSTOMER

BLUWEL

DATE

Mar 29, 2017 9:30:26 AM

LICENSE NO. MILEAGE

REFERENCE

SJN 6 S

76782

CUSTOM

MODEL

LEXUS GS300 (S190)

Front Wheel

SPECS

DIAGNOSIS

ADJUSTMEN

TOTAL TOE
PARTIAL TOE
SET BACK
CAMBER
CASTER
KING-PIN
INCLANGLE
Toe-out on turns
STEERING IN
STEERING OUT

	, OI L	200		1717	ICIN(1212		AD.	JUST	ME
min	prv	max A	L	total	R	Δ	L	total	R	Δ
-1.00	0.00	1.00		2.40		_		0.00	_	-
-0.50	0.00	0.50	3.30		-0.80		0.00		0.00	
	***	***		0°00"			100.550	0°00"		
-1002"	-0°18"	0°26"	-0°42"		-1014"	0°30"	-0°42"		-1°14"	0°30"
6°28"	7°28"	8°28"	6°44"			0°10"	ñ°44"		6°34"	
***			9°22"		9°16"	0°04"	9°22"		9°16"	
•••			8°38"		8°00"		8°38"		8°00"	
•	***						***			
***	**	*								
***									,	
						1				

Rear Wheel

SPECS

DIAGNOSIS

ADJUSTMEI

TOTAL TOE
PARTIAL TOE
SET BACK
CAMBER
THRUST ANGLE

					R	Δ	L	total	R	Δ
0.00	.00	2.10		8.20				1.60		
0.00	0.50	1.00	2.20		6.00		0.80	23.0.0	0.80	
· ·				-0°08"				~0°08"	.,,,,,,	
-1°14" -	0°30"	0°14"	-0°40'	•	-1°26"	0°46"	-0°46	3-4	-1°34"	0°48"
-0°08" 0	00.0	0°08"		-0°18"		-		()°00"		_

oligand.



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■ Tel: (65) 6369 9462

■ Fax: [65] 6648 8254

Mobile: (65) 9451 2866

24 April 2017

Your reference:

M1701354

■ Weblite: KooysAccidentReconstruction.com

Our Reference:

S235-1804R-RJ

SJN6S

Tokio Marine Insurance Singapore Ltd

20 McCallum Street

#09-01 Tokio Marine Centre

Singapore 069046

Tel: 65926414

Fax: 62212101

VEHICLE ACCIDENT DAMAGE RE-INSPECTION ASSESSOR REPORT

Accident involving SJN6S and XD8265U on 16/03/2017

1. REFERENCE

Claim type Accident date

Inspected at

Third Party

16-Mar-2017 Bluwel Auto, 1 Kaki Bukit Ave 6,

#01-28, S417883

Tel: 67452088 (Sally)

TP Vehicle

SJN6S XD8265U

Assignment date

Re-inspection date

18-Apr-2017 Assigned by Alvin/Fiona

> 20-Apr-2017 (9.30am)

77,279

2. VEHICLE PARTICULARS

Registration No. Make/Model

SJN6S

Lexus GS300

Chassis number

JTHBH96S705052824

Odometer reading

Odometer previous 76,777

Regn. Year Colour

13-Jun-2007

Black

3. POINT OF IMPACT/ ZONE OF DAMAGE

Side swipe of a light nature to the rear rhs fender



4. METHODOLOGY

The author has personally conducted a pre-repair insepction on 23 Mar 2017, and a resurvey with parts dismantled during repair on the same day, as well as a post repair inspection on 29 Mar 2017. This re-inspection was assigned as a verification of previous surveys/re-surveys.

5. COLLISION ANALYSIS brief

- a) The author has read the accident reports from both OD and TP drivers, and examined accident photographs available (9 ea from OD, 7 ea from TP).
- b) Physical inspections were also carried thrice on TP (1) 23 Mar 2017 for pre-repair inspection, (2) again on 23 Mar 2017 for re-survey with parts removed during inspection, and (3) 29 Mar 2017 for post-repair inspection.
- c) Based on calculations, the lateral speed damage to TP's rear fender is calculated to be 7km/h delta-V. This is considered minor, as the impact just exceeded the threshold of body panel damage, i.e. 4 km/h delta-V.

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- d) The maximum impact force to TP's fender was calculated to be 475 kgf. It would be impossible for any undercarriage parts to have any induced damage arising from such a low impact force.
- e) During inspection with parts removed on 23 Mar 2017, it is noted that the repairer opted to remove several unaffected rhs undercarriage parts for photos for e.g. the knucle, shock absorber, trailing arm mount, lower link etc
- f) Grease was observed to be leaking from the upper arm rubber boot, however, this is noted to be inconsistent with the accident. It is likely that the rubber boot deteriorated due to wear and tear (vehicle is 9.7 years old during the point of inspection)

6. RECOMMENDATIONS

a) Recommended cost of repairs (lump sum):

\$2,200.00

b) Recommended downtime to repair:

3 work days

Note: 3rd Party's surveyor's recommended sum was \$6,800.00 and 7 working days.

Melvin Lum DipEng LAE(P) NAPARS AAI

Assessor Engineer & Accident Investigator

Kelvir Koay BSc(Engg)Hons CEng ACTAR #978

Assessor Engineer, Accredited Accident Recon., USA

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ASSESSMENT OF SPARE-PARTS, MATERIAL & LABOUR

Your Reference: M1701354

Vehicle Number:

SJN6S

SPARE PARTS, MATERIAL & LABOUR Description	QTY pc/set	OUR Assessment	TP's Estimate (\$)	OUR Estimate (\$)
1. SPARE PARTS:				
Rear windscreen moulding	1	nec	144.80	144.80
Rear bumper	1	lug tom	841.67	841.67
Rear fender	1	dented	928.52	928.52
Rear wheel hub with bearing	1	na; see CA	627.80	0.00
Rear shock absorber	1	na; see CA	714.50	0.00
Rear knuckle arm	ı	na; see CA	724.55	0.00
Rear control arm	1	na; see CA	182.50	0.00
	1			
Rear lower arm	1	na; see CA	374.80	0.00
Rear stay arm	1	na; see CA	197.20	0.00
Rear top arm	1	na; see CA	186.96	0.00
	,		4,923.30	1,914.99
% less: 10%	10%		492.33	191.50
		SUB-TOTAL (1)	4,430.97	1,723.49
Rear windscreen sealant	1	nec	50.00	50.00
Book or (Books idles)	1	na; in any case found	252.00	0.00
Rear tyre (Depreciation)		reused		
Rear sport rim	1	repair will suffice	1,691.85	0.00
			1,993.85	50.00
% less: 0%	0%		0.00	0.00
		SUB-TOTAL (2)	1,993.85	50.00
2. LABOUR & MATERIAL:				
To disconnect & reconnect, check electrical wiring,				
harness wires, sockets, replace damaged parts	-		30.00	0.00
To remove & refit rear cushion seats, radio speaker board, interior upholstery to facilitate the repairs			140.00	80.00
To remove & refit rear bumper sensor			80.00	20.00
			200.00	0.00
To remove & refit rear undercarriage	_	not necessary	200,00	0.00
To check & readjust (computerized) all wheel alignment			120.00	120.00
To remove & replace the above damaged parts, straighten, knock out, realign & repair including cut &				
weld body panels. To readjust to the original position				
using power tools		2	750.00	400.00
To spray paint on the replaced & repaired parts, prepare				
spray such as masking tape the unaffected areas with				
paper, cleaning & sanding of surfaces, final polishing & waxing are also available			750.00	400.00



SPARE PARTS, MATERIAL & LABOUR Description	QTY pc/set	OUR Assessment	TP's Estimate (\$)	OUR Estimate (\$)
To apply undercoating on the repaired & replaced panels for rust protection			60.00	0.00
		SUB-TOTAL (3)	2,130.00	1,020.00
G	8,554.82	2,793.49		

3. SUMMARY			LEGEND	na	not affected/applicable
a) Repairs cost:	\$2,200.00	lump sum		bod	benefit of doubt given
b) Number of days	for the repairs:	3 work days		CA	Collision Analysis
					0.8

Note: 3rd Party's surveyor's recommended sum was \$6,800.00 and 7 working days.

SJN6S [XD8265U] - Submitted by: Koays Accident Reconstruction Pte Ltd (HQ)



1/13: Rear View Left



2/13: Rear View



3/13: Rear View Right

SJN6S [XD8265U] - Submitted by: Koays Accident Reconstruction Pte Ltd (HQ)



4/13: Photographs of Damaged Parts



5/13: Chassis Number



6/13: WIP

SJN6S [XD8265U] - Submitted by: Koays Accident Reconstruction Pte Ltd (HQ)



7/13: WIP



8/13: Finishing Photo



9/13: Finishing Photo

SJN6S [XD8265U] - Submitted by: Koays Accident Reconstruction Pte Ltd (HQ)



10/13: Reinspection Photo



11/13: Reinspection Photo



12/13: Reinspection Photo

SJN6S [XD8265U] - Submitted by: Koays Accident Reconstruction Pte Ltd (HQ)



13/13: Reinspection Photo

dmin (No.: (9) LAW (80) 1203 ligh		SJN 65
dmin (
	0 1/	Case Handler	Typist
Offi	(ath): Case handler to make sure all Information	on created by the assi	gnment team are ACCURA
Office /	Assign Form	Y-Date N-Date	Y-Date N-Date
С	Reference No.		
C	Customer Code		
N	Assign From		
С	Assign Date		
С	Veh No (Inspected)		
С	Veh No (Insured)		
С	D.O.A		
С	Policy No		
С	Claim No		
С	Insurance Authorisation (CA /REV/REP)		
С	Report Type	1/	
C	Weekend Charges		
N	Survey held at/Repairer		
C	Excess		
	(
ırveyo): Case handler to make sure the s	urveryor completed a	Il required information.
Assign	ment Form		
С	Vehicle No		
C	Regn Month/Year		
Ν.	Vehicle Type		
N	Make & Model		
С	Engine Capacity. (C.C)		
N	Colour		
С	Odometer. (Sp.Reading)		
C	Chassis No		
N	General Condition		
N	Steering		
N	Brake		
N	Modification (Modi)		
C	Tyre Size		
N	Tyre Make		
C	Tyre Balance		
C	Date of Inspection		
N	Survey held		
N	Des.of Damages 4		
	n - (Views/Merimen)		
С	Damaged Vehicle Photographs Uploaded		
) Works	hop Estimate/Assignment Form		
N	ALL Parts condition		
С	Market Value for OD cases		
C	Estimate Repair Cost for PRI (RSI, TMI, MSIG)		
C	Days of repair	1/	
C	Finalised Amount		
C	Re-inspection Cases to Finalize within 5 Days		
	n - (Views/Merimen)		
C	Resurvey photo Uptoaded		
=			