



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

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OPINION ON REPAIR COST FOR VEHICLE NO. SMU 6831P

Qty	Description of Parts	Condition	Recommended (\$)
	<u>REPLACEMENT OF PARTS</u>		
1	SEAT BELT	DAMAGED	320.00
1	SEAT BELT	DAMAGED	320.00
2	SEAT BELT LOWER STRAP @\$280.00	CUT	560.00
1	FLOOR MAT SET COMPLETE	CONTAMINATED	240.00
1	REGULATING LAMBDA PROBE	CONTAMINATED	495.00
1	CATALYTIC CONVERTER	CONTAMINATED	1,977.00
1	GASKET RING	NECESSARY	30.00
1	AXLE OIL	NECESSARY	80.00
2	PULSE GENERATOR DSC @\$198.00	DAMAGED	396.00
2	PULSE GENERATOR DSC REAR @\$180.00	DAMAGED	360.00
1	FRONT BUMPER CABLE	DAMAGED	234.00
1	CABLE SET END	DAMAGED	255.00
1	FRONT LEFT REPAIR WIRING	DAMAGED	650.00
1	FRONT RIGHT REPAIR WIRING	DAMAGED	720.00
1	SET REAR REPAIR WIRING	SHORTED	1,260.00
1	SET CABLE REAR BUMPER	CONTAMINATED	230.00
1	CABLE ELECTRO PARKING BRAKE	SHORTED	74.00
1	CABLE ELECTRO PARKING BRAKE	SHORTED	74.00
1	DOOR CABLE HARNESS	SHORTED	370.00
1	DOOR CABLE HARNESS	SHORTED	370.00
1	REAR DOOR WIRING HARNESS	SHORTED	335.00
1	REAR DOOR WIRING HARNESS	SHORTED	335.00
1	WIRING SET SEAT LEFT	DAMAGED	85.00
1	WIRING SET SEAT RIGHT	DAMAGED	85.00
1	BATTERY LEAD POSITIVE UND	DAMAGED	560.00
1	BATTERY CABLE (PLUS POLE)	CONTAMINATED	235.00
1	MAIN WIRING HARNESS	SHORTED	6,000.00
1	AUDIO WIRING HARNESS	SHORTED	1,170.00
1	SENSOR WIRE SMART OPENER	DAMAGED	45.00
1	SENSOR WIRE SMART OPENER	DAMAGED	51.00
1	WIRING HARNESS MOTOR SENSOR 1	CONTAMINATED	600.00
1	WIRING HARNESS MOTOR SENSOR 2	CONTAMINATED	600.00
1	WIRING HARNESS ENGINE IGNITION	CONTAMINATED	600.00

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Qty	Description of Parts	Condition	Recommended (\$)
1	WIRING HARNESS ENGINE VALVE SERV	CONTAMINATED	180.00
1	WIRING HARNESS ENGINE GEARBOX MO	CONTAMINATED	460.00
1	SUBWOOFER	DEFORMED	450.00
1	SUBWOOFER	DEFORMED	450.00
1	FLOOR TRIM FRONT	SOAKED	990.00
1	FLOOR TRIM REAR	SOAKED	940.00
1	INSERT FRONT LEFT	DAMAGED	23.00
1	INSERT FRONT RIGHT	DAMAGED	23.00
2	RADAR SENSOR @\$1240.00	MALFUNCTION	2,480.00
1	ELECTRIC FAN	SHORTED	220.00
1	SEAT MODULE ECU	MALFUNCTION	500.00
1	AUTO OILPAN W/LIT	NECESSARY	80.00
1	BMW OIL FILTER	NECESSARY	18.00
1	BMW COOLANT ANTI-FREEZE	NECESSARY	10.00
6	AUTO FLUID (1 LITRE) @\$18.00	NECESSARY	108.00
1	BMW CONTROL UNIT FOR FUEL PUMP	CORRODED	360.00
6	RIVET @\$4.00	NECESSARY	24.00
1	BRAKE PAD	CORRODED	185.00
1	BRAKE PAD WEAR SENSOR, FR	CONTAMINATED	32.00
1	REAR PAD	CORRODED	160.00
2	BRAKE DISK @\$125.00	RUSTY	250.00
1	BRAKE PAD SENSOR, REAR	CONTAMINATED	32.00
2	BMW BRAKE DISC FR @\$115.00	RUSTY	230.00
1	BODY DOMAIN CONTROLLER	MALFUNCTION	1,350.00
1	BMW STARTER MOTOR	DAMAGED	958.00
8	AUTO FLUID (1 LITRE) @\$18.00	NECESSARY	144.00
1	BMW CONTROL UNIT	CORRODED	1,030.00
1	BMW SENSOR HIGH PRESSURE	DAMAGED	88.00
1	BMW SENSOR DOOR	DAMAGED	165.00
1	BMW CARRIER	DAMAGED	399.95
1	BMW DOOR LOCK REAR LH	JAMMED	350.00
1	BMW LAMP	BLOWN	31.00
1	MEMORY SEAT	MALFUNCTION	4,800.00
	COST PLUS 5%		1,861.85
			39,098.80

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Qty	Description of Parts	Condition	Recommended (\$)
	<u>SPECIAL NETT ITEMS</u>		
1	NUMBER PLATE (SN)	DAMAGED	35.00
1	ENGINE OIL (LIQUI MOLY 5 LITRES) (SN)	NECESSARY	69.00
1	TUNAP 994 A/C SYSTEM CLEANER (SN)	NECESSARY	110.00
			214.00
	<u>LABOUR</u>		
	WIRING CONNECTION & CHECK.		150.00
	TO REMOVE & REFIX RADIATOR, CONDENSER, A/C GAS, CONDUCT PRESSURE TEST, CHECK FOR LEAKS, VACUUM REFILL.		150.00
	LABOUR CHARGES TO REPAIR / REPLACE FRONT BUMPER, FRONT BONNET, SUPPORT PANEL, CHASSIS EXTENSION, 2 FRONT FENDERS, AND ALL OTHER AFFECTED PARTS.		600.00
	TO REPLACE FRONT PARKING SENSOR, CONDUCT PROGRAMMING & CALIBRATION.		200.00
	REMOVE & REFIX FRONT BUMPER SENSOR.		60.00
	TO CONDUCT ECU PROGRAMMING, CHECK AND CLEAR FAULT CODES, RESTORE PROGRAMME MODULES.		200.00
	TO REMOVE AND REFIX REAR BUMPER, REAR BOOT, SPARE TYRE BOARD, REAR RH FENDER INNER TRIM, REAR LH FENDER INNER TRIM TO FACILITATE REPLACEMENT OF WIRE HARNESS AND AUDIO HARNESS.		600.00
	TO REMOVE AND REFIX FRONT DRIVER SEAT, SEAT BELTS AND BUCKLE, FRONT PASSENGER SEAT, SEAT BELT AND BUCKLE REAR PASSENGER SEAT, SEAT BELT AND BUCKLE TO FACILITATE REPLACEMENT OF MAIN WIRE HARNESS, SEAT CONTROL MODULE SEAT BELTS, BUCKLES, FUEL PUMP CONTROL UNIT UNDER THE REAR PASSENGER SEAT, REPLACEMENT OF INTERIOR CARPET SUB WOOFERS.		300.00
	TO REMOVE AND REFIX FRONT DRIVER DOOR, FRONT PASSENGER DOOR, REAR RH DOOR AND REAR LH DOOR TRIMS, REGULATOR MOTOR AND WINDOWS TO FACILITATE REPLACEMENT OF DOOR WIRE HARNESS, AIR BAG SENSOR, DOOR LOCK MECHANISM.		320.00
	TO REMOVE AND REFIX REAR SPEAKER BOARD TO FACILITATE REPLACEMENT OF MAIN WIRE HARNESS.		200.00
	TO REMOVE AND REFIX ROOF LINING TO FACILITATE REPLACEMENT OF MAIN WIRING HARNESS.		400.00
	TO REMOVE AND REFIX CENTRE CONSOLE, GEAR SELECTOR LEVER / MODULE TO FACILITATE REPLACEMENT OF MAIN WIRE HARNESS, AIR BAG CONTROL MODULE AND AUDIO WIRING HARNESS.		200.00



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Qty	Description of Parts	Condition	Recommended (\$)
	TO REMOVE AND REFIX LH & RH, FRONT AND REAR "A" PILLAR, "B" PILLAR AND "C" PILLAR, REMOVE CURTAIN AIR BAG AND AIR BAG SENSOR, SEAT BELT CRASH SENSOR, TO FACILITATE REPLACEMENT OF MAIN WIRE HARNESS.		400.00
	TO REMOVE AND REFIX DASHBOARD, GLOVE BOX, STEERING WHEEL, HEAD UNIT, METER AND MAIN SCREEN TO FACILITATE REPLACEMENT OF MAIN WIRE HARNESS, AUDIO HARNESS, CAN BUS AND LIN BUS (COMMUNICATIONS) HARNESS. TO ACQUIRE ACCESS TO JUNCTION BOX ON FRONT RH AND LH WIRE HARNESS JUNCTION TOWARDS ENGINE BAY.		300.00
	TO REMOVE AND REFIX BLOWER MOTOR, CLEAN AND SANITIZE BLOWER FAN AND TEST MOTOR FUNCTIONALITY, REMOVE AIR CON AIR DUCTS TO CLEAN AND SANITIZE DUCTING FROM RESIDUAL WATER INGRESS, PERFORM AIR CON COOLING COIL CLEANING AND SANITIZATION, CALIBRATION OF AIR FLAP MOTORS AND HEATER OIL.		200.00
	TO REMOVE AND REFIX ENGINE BAY FUSE BOX, WIPER GARNISH, AIR CON FILTER HOUSING, TO FACILITATE REPLACEMENT OF MAIN WIRE HARNESS THRU ACCESS OF FRONT LH AND RH.		400.00
	TO REMOVE AND REFIX ENGINE AIR FILTER HOUSING, RADIATOR SPARE TANK, WIPER WASHER RESERVOIR, BRAKE RESERVOIR TO ALLOW ACCESS TO ENGINE COMPONENTS TO REPLACE ENGINE WIRE HARNESS.		200.00
	TO CARRY OUT TRANSMISSION FLUID FLUSHING AND ACTUATION OF TRANSMISSION SYSTEM.		100.00
	TO REPLACE ENGINE OIL AND OIL FILTER.		100.00
	TO REMOVE AND REFIX FRONT BRAKE DISC AND ROTOS REMOVE RESIDUAL WATER IN BEARINGS, LUBRICATE AND REPLACE BRAKE COMPONENTS, REPLACEMENT OF WHEEL SPEED SENSOR AND BRAKE SENSOR WIRE.		200.00
	TO REMOVE AND REFIX REAR BRAKE DISC AND ROTOS, REMOVE RESIDUAL WATER AND DEBRIS FROM REAR BEARINGS, LUBRICATE BEARINGS AND BUSHINGS, REPLACEMENT OF WHEEL SPEED SENSORS, REAR PARKING BRAKE ACTUATOR SENSOR CABLE, REAR BRAKE PAD, BRAKE DISC AND BRAKE SENSOR WIRE.		200.00
	TO REMOVE AND REPLACE CATALYTIC CONVERTER, UP-STREAM O2 SENSORS, CLEANING OF EXHAUST SYSTEM AND REMOVAL OF EXCESS / RESIDUAL WATER IN THE SYSTEM.		80.00
	TO CARRY OUT SCN CODING / PROGRAMMING OF FUEL PUMP CONTROL UNIT.		200.00
	TO CARRY OUT SCN CODING / PROGRAMMING OF AIR BAG CONTROL UNIT.		200.00
	TO CARRY OUT SCN CODING / PROGRAMMING OF BCM BODY CONTROL MODULE. IMMOBILIZER.		300.00
	TO CARRY OUT SCN CODING / PROGRAMMING OF SEAT CONTROL MODULE.		300.00

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	TO CARRY OUT SCN CODING / PROGRAMMING OF HEAD UNIT CONTROL MODULE.		300.00
	TO PERFORM FUNCTION CHECK ON MODULES PROGRAMMED VIA OSCILLOSCOPE - TESTING OF POWER SUPPLY, COMMUNICATION SIGNAL AND GROUNDING CAPABILITIES.		500.00
	TO PURCHASE LICENSING FOR NAVIGATIONAL SOFTWARE, SPEECH PROCESSING SOFTWARE, ROAD MAP OF SOUTH EAST ASIA, SPEED LIMIT INFORMATION, LANE DEPARTURE WARNING SYSTEM, PEDESTRIAN PROTECTION SYSTEM.		1,100.00
	TO CARRY OUT SCN CODING / PROGRAMMING FOR REAR RADAR SENSORS / CONTROL MODULE.		200.00
	TO CARRY OUT SCN CODING / PROGRAMMING FOR ESP CONTROL MODULE.		200.00
	TO CARRY OUT SCN CODING / PROGRAMMING OF DYNAMIC STABILITY PROGRAM.		200.00
	TO CARRY OUT SCN CODING / PROGRAMMING OF ELECTRICAL POWER STEERING MODULE.		200.00
	TO CARRY OUT SDN CODING / PROGRAMMING FOR ELECTRICAL FRONT HEADLIGHT MODULE.		200.00
	TO CARRY OUT SCN CODING / PROGRAMMING FOR AUTOMATED CLIMATE CONTROL SYSTEM.		200.00
			9,660.00
GRAND TOTAL			48,972.80

RECOMMENDED COST OF REPAIRS			48,972.80
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ANG BRYAN TANI

Automotive Assessor / Investigator

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