BROWN AND HURLEY
The BIG TRUCK People

TRUCK SALES, TRAILER SALES, PARTS & SERVICE

A.B.N. 66 010 732 966

2632 Ipswich Road, Darra QLD 4076
Phone: (07) 3363 8000 Fax: (07) 3363 8080
bris.admin@brownandhurley.com.au
www.brownandhurley.com.au

SERVICE TAX INVOICE

Invoice To:

Deliver To:

Document No.:	***3055411***
Document Date:	24/11/2023
Repair Order No.:	864992
RO Creation Date:	5/11/2023
Rego No.:	XB98IO
Make/Model:	2013 KENWORTH K200 6X4 PM
Vehicle ID No.:	6F5000000DA450180
Fleet No:	
Odometer:	580138
Engine Hours:	
Delivery Date:	04/10/2013
Invoice To:	12116
Customer ABN:	21 625 785 275
P/Order No.:	XB98IO
Page:	1 of 8

KWBSL — KW B - Service Labour; (If time does not permit, we can just do an engine service)

Check Ultra-Shift Latest Software inTECU — ***$759.99***
Carryout Ultra-Shift Grease Procedure
Reset Ultra-Shift Grease Interval
Reset Ultra-Shift Grade Sensor Calibration
Sample Engine Oil Sample
Change Engine Oil
Change Engine Oil Filter
Change Fuel Filters
Change SCR Air Filter & Carry out airside flush as per QSOL E5
Clean Combo Sensor (Cummins EGR Engines Only)
Check Exhaust System & Report
Check Gearbox Oil Level
Check Auxiliary Transmission Oil Level
Check Forward Rear Axle Oil Level
Check Rear Rear Axle Oil Level
Check Power Steering Oil Level
Check Air Cleaner Element
Check Engine Oil Level after Starting
Check Radiator Coolant Level
Check & Record Coolant Antifreeze Concentration
Check Battery Electrolyte Level & Tighten Terminals
Check Front Wheel Bearings Play & Adjust
Check Steer Hub Oil for Contamination & Top Up
Check Bell Housing Bolts
Check Clutch Fluid Level (DOT 4 ONLY)
Check Free Play in Steering & All Components
Lube All Grease Points, Replace Any Nipples Not Taking Grease
Fill Auto Greaser
Check Clutch Linkage Bolts
Check Driveline for Movement & Report
Check Tension Cab & Sleeper Mount Bolts
Check Tension U-Bolts
Check Tension Rear Suspension Bolts
Check Tension Steering Draglink Pinch Bolts
Check Tension Engine Mount Bolts - Front & Rear
Check Tension Radiator Mount Bolts - incl. Upper Stabilizer Alignment.
Centralize Steering Wheel

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Top Up Windscreen Washer Bottle & Test Washers
Drain Air Tanks
Check Condition of All Air & Electrical Lines & eliminate Rubbing
Report Any Oil Leaks
Check Tension Radiator Hoses With Torque Wrench
Check Tension C.A.C Hoses with Torque Wrench
Lube Door Locks, Latches & Wedge Blocks with Silicon
Check Operation of All Lights, Gauges, Wipers & Horns
Check & Adjust Clutch
Check & Adjust Brakes
Check & Adjust Belts
Check Interior Appointments
Check Retract Seatbelts For Operation & Fraying.
Clean Down Vehicle
Fit service sticker
****
Brake lining condition
LHF 1st 5mm RHF 1st 5mm
LHFD 3mm RHFD 5mm
LHRD 4mm RHRD 6mm
Road test.

Part Number	Part Description	Quantity	Total Cost
MK13555	FILTER KIT - E5/X15	1.00	128.95
AS2474	AIR/OIL SEPARATOR	1.00	16.03
TRPCAF0001	TRP KW CAB AIR FILTER	1.00	24.55
3413005	VECTON 15W-40 CK-4/E9 BULK L	45.00	277.65
Comments: Core Return No CR9851			
TOOL BOX	TOOLBOX PROMO 2023 DARRA	1.00	0.00
JETSKI	JET SKI PROMO 2023	1.00	0.00
G	GREASE	1.00	15.00
	Parts Totals:	***51.00***	***$462.18***

AFT Reports aftertreatment light is on.

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Connected the computer and scanned for logged codes, found faults recorded related to Data Erratic Crank Angle Sensor. Disconnected the harness and checked over and tested the harness. Carried on with trouble shooting and traced fault to the crankshaft speed sensor. Removed and replaced the crankshaft speed sensor, reassembled all and secured, cleared the logged code and ran up the engine and checked operation. ***$570.01***

Part Number	Part Description	Quantity	Total Cost
5594275NX	RECON POSITION SENSOR	1.00	68.61
3901446	SCREW HEXAGON FLANGE HEAD CAP	1.00	15.27
	Parts Totals:	***2.00***	***$83.88***

K046 LHR tail lightsnot working

Inspected and found the LHR light assembly failed, and Parker light wiring failed. Replaced lights and repaired the park light wiring. ***$399.10***

Part Number	Part Description	Quantity	Total Cost
P54-1199-001	LAMP-TAIL LIGHT	1.00	214.58
	Parts Totals:	***1.00***	***$214.58***

K046-1 Spotlights notworking

Checked the power supply and fuses,found no power, and the fuses fine. Checked the relay and found fine, checked the switch and found the switch fine. Supplied power directly to the spotlights and found working. Isolated fault to a wiring concern, with a short or break in the wiring. Inspected and checked over the wiring. Upon a short inspection, found 6 different points where the wire has been cut and re-joint. Repaired wiring from the fuse panel to the relay and confirmed the lights were working. Now found the LH spotlight plug was burnt out and flickering. Cut off the plug on the LH Spotlight, fitted new plug. LH Spotlight works properly now. Spotlights not working ***$380.01***

K046-2 LH high beamnot working

Checked the power supply to the lights,found no power, accessed the fuse panel and checked the fuses and found the fuse failed. Replaced the failed fuse and found lightworking and the fuse not failing. Removed the fuse and fitted a 15 amp circuit breaker. ***$95.00***

Part Number	Part Description	Quantity	Total Cost
1610-21-15A	CIRCUIT BREAKER	1.00	19.45
	Parts Totals:	***1.00***	***$19.45***

K011 Rectify multiple air leaks throughout vehicle.

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Inspected and checked over for air leaks, found air leaking internally from the Horton fan hub. Diassembled and carried out horton seal kit overhaul. ***$433.03***

Part Number	Part Description	Quantity	Total Cost
1/2HDWASHZP	WASHER 1/2 x 27.00 x 3.0mm	1.00	0.68
VS159F-4-2	FITTING	1.00	1.65
	Parts Totals:	***2.00***	***$2.33***

K031 Drivers doortrim failed.

Removed and replaced the driver's side door trim due to being split and getting jammed on door. ***$76.48***

Part Number	Part Description	Quantity	Total Cost
R42-1084	SEAL-DOOR CAB PRIMARY	1.00	305.06
	Parts Totals:	***1.00***	***$305.06***

K024 Check and adjust ride height as required.

Found suspension ride heights out during the service, set vehicle up under the test trailer and adjusted the suspension hirghts. ***$25.50***

K002 Oil leak at thethrough shaft seal area. Possible part warranty. Report findings

Inspected for leak, washed down leakage, to recheck for source of leakage after road test. Returned from road test, removed the shaft and cleaned, resealed wth silicone and reassembled all. ***$609.11***

Part Number	Part Description	Quantity	Total Cost
CSC82052	BOLT-RPL	1.00	5.79
F4975	NUT-JAM	1.00	23.06
	Parts Totals:	***2.00***	***$28.85***

K039 Oil leak fromthe turbo drain area. We recently rebuilt the engine. Report findings

Inspected and found oil leakage, found excessive oil leak from turbo drain, found front threads failed. ***$760.00***
Removed the turbo from the manifold, tapped threads for the turbo drain, checked the wastegate while the turbo was off. Found the wastegate to be out of adjustment, adjusted the wastegate and cleaned the flanges for reinstall, found large crack under gasket, crack extended across inner side of turbine housing webbing, reported findings, and fitted the replacement turbo. Reassembled all and secured.

Part Number	Part Description	Quantity	Total Cost
CRC-5005	CRC 5-56,400GRAM AEROSOL	1.00	11.58

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5607734RX	RECON TURBOCHARGER KIT (EPR)	1.00	5,066.21

Comments: cr009853

Parts Totals: ***2.00*** ***$5,077.79***

K001 Ubolts insecure

Tensioned the U-Bolts to 450 ft/lbs. ***$61.90***

MISC Icepack mounts split.

Replaced the bolts and secured. ***$60.17***

K031-1 Drivers steploose

Bent the step due to contacting the Ab-Blue tank and secured away from contact. ***$91.77***

K024-1 Replace worntorque rod bushes.

Removed the torque rods, found several bolts seized and threads picked up on removal. had to cut the bolts, pressed out the failed bushes and pressed in the new bushes, refitted the torque rods and secured with new nuts and bolts. ***$741.00***

Part Number	Part Description	Quantity	Total Cost
839310	BUSHING	4.00	528.92
K041-578-475	BLT-5/8X43/4UNFGR8HXHD MOQ 25	8.00	34.32
K169-143-108CA	5/8 NFNYLOCNUT GRADE-8	8.00	12.56
5/8HDWASHZP	WASHER 5/8 x 33.00 x 3.0mm	16.00	14.40
	Parts Totals:	***36.00***	***$590.20***

K031-3 Cab mountsworn.

Customer to moonitor the cab shockabsorbers and report back. ***$50.98***

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K031-4 Air/electric horn not working

Built up air pressure and found the airhorn working, and could not fault the electric horn.

K046-3 LH loading light not working

LH Loading light had been knockeddown and un-plugged, cleaned and re-ran and resecured the connection and positioned the light and checked now working. ***$364.17***

Part Number	Part Description	Quantity	Total Cost
W125	GLOBE,WEDGE BASE 12V5W	4.00	5.44
	Parts Totals:	***4.00***	***$5.44***

K038 Intake bracketbroken

Removed 2x Intake brackets on theRHSnorkel. Ordered new bracket and rubbers and fittted and secured. ***$148.83***

Part Number	Part Description	Quantity	Total Cost
K161-3477-	LINING-AIR INTAKE BAND	2.00	22.32
470 K077-445	CLAMP-AIR INTAKE	2.00	191.54
K233-495	STUD- ANTI VIBRATION	1.00	90.10
45HL60R50	ELBOW-45 DEG.5"TO 6"	1.00	162.02
	Parts Totals:	***6.00***	***$465.98***

K022 Adblue tankstrap rubbers perished.

Removed the Ad-Blue tank straps, removed and replaced the strap rubbers and refitted and secured the straps. ***$200.30***

Part Number	Part Description	Quantity	Total Cost
K161-4819-1	LINING-FUEL TANK STRAP	4.00	151.28
	Parts Totals:	***4.00***	***$151.28***

K051 Pitman arminsecure

Removed the pitman arm pinch boltand nut, fitted new pitman arm pinch bolt and nut and tensioned to 300ft-ibs. ***$231.62***

Part Number	Part Description	Quantity	Total Cost
34-500F	3/4 X 500 UNF GR8 BOLT	1.00	4.01

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34F	3/4 UNF NYLOC GR8 NUT		1.00	1.60
		Parts Totals:	***2.00***	***$5.61***

K001-1 Replace steermudflaps

Removed and replaced the the mudflaps. ***$338.83***

Part Number	Part Description	Quantity	Total Cost
K213-3021-44	SHIELD-MUDFLAP	1.00	90.38
K213-3021-9	SHIELD-MUDFLAP SPRAY SUPPRESS	1.00	134.44
	Parts Totals:	***2.00***	***$224.82***

K024-2 Replace R/H/F drive rear air bag.

Supported the chassis. ***$256.50***
Removed the airbag airline.
Removed the airbag from the chassis.
Fitted new airbag.
Reconected the airline.
Built up air and checked for air leaks.

Part Number	Part Description	Quantity	Total Cost
C81-1005	AIR SPRING AG460 10.5"	1.00	492.01
12C	1/2 UNC GR8 NYLOC NUT	1.00	0.37
	Parts Totals:	***2.00***	***$492.38***

K011-1 Replace governer valve lines.

Removed all zipties and clamps etc. ***$240.67***
Ordered new fittings.
cut the lines down to size and assembled new hoses with fittings.

Part Number	Part Description	Quantity	Total Cost
201-4/1	HOSE # 4 PER METRE	3.00	24.12
20620-4-4	FITTING	4.00	45.68
80-062T	HOSE-SILICON 5/8" (PER FOOT)	3.00	22.59
236577N	GASKET-GOVERNER	1.00	11.02
	Parts Totals:	***11.00***	***$103.41***

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K011-2 Replace horton solenoid

Removed old solenoid. ***$259.67***
Ordered new fittings.
Fitted new assembly - all good.
Also had to cut and join and airline that was rubbed through.
Replaced a leaking airline olive.

Part Number	Part Description	Quantity	Total Cost
62PTC-6	FITTING - PTC JOINER 3/8"	1.00	13.07
F093400	SOLENOID AND FILTER ASSY	1.00	354.79
VS169PTC-4-4	FITTING - PUSH TO CONNECT	1.00	13.56
	Parts Totals:	***3.00***	***$381.42***

Warranty Repairs/Service At No Charge

Drained the engine oil and disassembled and removed the engine oil pan. Found a number of threads failed. Drilled out the failed threads and tapped and Heli coiled and repaired the failed threads. Refitted the oil pan with a new gasket and refilled the engine oil. Pressure cleaned and washed down the leakage.

Warranty Repairs/Service At No Charge

Disassembled and removed the Horton fan hub, disassembled and cleaned and inspected the Horton fan hub, reassembled the Horton fan hub with a new seal kit and refitted the Horton fan hub and reassembled all. Ran up engine, built up air pressure and checked for further leaks.

Service Reminders Advisor: Ryan Date
0447015911 Use Premium blue oil.

Workshop Trading Hours: Mon-Fri 6:30am to 9:15pm, Sat 8am to 12pm
*** Refrigerant trading authority number: AU13435 ***

PART S	$8,614.66
LABOUR	$7,154.64
MISC. CONSUMABLES	$100.00
ENVIRONMENTAL LEVY	$50.00
SUBLET	$0.00
OTHER CHARGES	$0.00
TOTAL GST CHARGED	$1,591.93
TOTAL Incl. GST	$17,511.23

Customer's Signature

Bank Account Details for Direct Payments:
Bank: CBA Branch: Kyogle
BSB: 062563 Account No.: 10059314 Account Name: The Brown and Hurley Group Pty Ltd