



4941 Midland Road Billings MT 59101 • PO Box 80030 Billings MT 59108
 (800) 332-7780 • (406) 252-5651 • Fax (406) 248-2010 • www.mtrpwr.com

Invoice: **01BW140086**
 Date / Hour: 8/25/2023 1:44:37PM
 Repair Order: 140086
 Customer: 10731*
 Branch: 01
 Total Invoice: \$25,323.14
 Charge
 Page 1 of 5

Bill To: C & B LOGISTICS, INC *
 30965 US HWY 212
 GETTYSBURG, SD 57442

Ship To: C & B LOGISTICS, INC *
 7810 E SCANDIA ROAD
 BILLINGS, MT 59079

Work: 605-765-2434

Fax: 605-765-9303

Customer P/O: 410 belkins House Orig R/O: 0 Completion Date: 8/25/2023

Unit Number: 410 Model Year: 2010 Make/Model: Kenworth T660
Type: Tractor VIN: 1XKAD49X2AJ271237 Meter: 976436 Miles

Formerly Curt Laingen Trucking

Task: 1 40-000018 Fluid leaks - Oil - Coolant - Fuel Department: Service

Complaint: CUSTOMER STATES THAT UNIT HAS A COOLANT LEAK NEAR RADIATOR AND THE LINES TO THE APU

Correction: bring in the shop and check for leaks the radiator is leaking in the lower right side. the only other leak i could find was at the trans oil cooler lines. got ok to replace the radiator and hoses from B Elkins. drain coolant and remove the radiator. transfer the frame to the new radiator and install in the truck. swap the ATA over. replace the tranny coolant hoses and clamps. refill and add 4 gallon of new coolant. recover the freon and remove the high side hose to get the condenser out of the way. recover 3 lbs of freon. replace the o-ring evacuate the system and charge the a/c with 4 lbs.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	238638	RAD. KW N4020002	EA	1.0	\$709.99	\$709.99
	4298695CUM	HOSE-MOLDED	EA	1.0	\$51.31	\$51.31
	6330-1	R134A FREON	EA	1.0	\$13.89	\$13.89
	9210TRP	CLAMP-HOSE W/LINER #10	EA	4.0	\$3.14	\$12.56
	CT9444TRP	CLAMP-CONSTANT TORQUE #44	EA	1.0	\$9.86	\$9.86
	D1030-3755	HOSE-HEATER #12X25' J20R3EPA-Y	EA	5.0	\$11.46	\$57.30
	EC3501	COOLANT-TRP ELC 50/50 JUG	EA	4.0	\$13.46	\$53.84
	ShopSup	Shop Supplies		1.0	\$235.51	\$235.51
				Task 1 Subtotals	Parts:	\$908.75
					Labor:	\$2,359.80
					Miscellaneous:	\$235.51
				Task 1 Subtotals		\$3,504.06

Task: 2 23-020001 Clutch - Clutch Assembly - Adjust Department: Service

Complaint: CUSTOMER REQUEST TO ADJUST CLUTCH

Correction: remove the trans bell housing cover to check the air gap between the throw-out bearing and the clutch brake. the air gap is good. grease the throw-out bearing, crossshafts, fork pivots. bell cranks and clutch brake both sides. the clutch arm link stud is loose. all the ball sockets are rusty in the linkage. could not loosen or tighten the ball stud on the clutch arm. had to take the arm and link off. had to replace the link assembly. the threads were bad on the link rod when i went to change the ends. spray the other ball sockets down with corrosion lube. check the clutch operation . works good. the clutch is a after market diaphragm clutch and a 2 piece clutch brake. the grease hose to the front bell crank is loose . no grease went into the bell crank. tried to tighten up did not seal. took apart replace the fitting and the swivel on the braided hose.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	065-103-4	3/8"-24 NYLOC NUT	EA	2.0	\$0.77	\$1.54
	24704N-604WHD	FITTING-SAE45 STL FSTRSWV	EA	1.0	\$11.64	\$11.64
	AP2073	ADAPTER-SAE45 BRS 45MALEL	EA	1.0	\$7.37	\$7.37
	E65-1042-0320180	ROD ASSY-CLUTCH	EA	1.0	\$185.68	\$185.68
	ShopSup	Shop Supplies		1.0	\$25.70	\$25.70
				Task 2 Subtotals	Parts:	\$206.23

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Customer P/O:	410	belkins	House	Orig R/O:	0	Completion Date:	8/25/2023	
							Labor:	\$257.50
							Miscellaneous:	\$25.70
							Task 2 Subtotals	\$489.43

Task: 3 40-00001 Paccar Engine Diag

Department: Service

Complaint: CUSTOMER STATES THAT UNIT HAS A MISS

Correction: warmed truck up and did a cylinder cut out seemed to be #2 pulled air cleaner and valve cover found bad lobe on #2 cam went to parts and quoted part got the ok to replace cam removed all cac intake and hoses pulled rad. removed fan and hub a/c alternator and bracket removed front tin and valve cam gear replaced cam installed gear and rocker assy. ran the overhead i couldnt get three jakes to set got the ok to replace the jake rocker arms removed rocker assy. and replaced ran the overhead and #2 still wouldnt set removed rocker assy. and measures valves the valves on #2 were 3/16 in higher than the rest quoted a head put new head on bench and put together painted cleaned block and checked liner height it was ok cleaned the bottom of the head and installed installed cams and gears put the rocker assy. on engine i did change out the jake rockers to the old ones ran the overhead installed fuel module and the rest of the left side put valve cover and front tin on installed fan hub fan and alternator a/c bracket installed belts and tensioners i had to heli-coil two holes in the a/c alt. bracket installed turbo routed wire harness and hooked all up installed rad. all hoses and filled finished hooking up wires and ziptied up wires and hoses charged a/c and ran truck up to temp no leaks at this time

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	3089392CUM	SEAL,O RING	EA	1.0	\$4.72	\$4.72
	3163075	PAINT CUMMINS RED	EA	2.0	\$26.36	\$52.72
	3627695CUM	SEAL O-RING	EA	2.0	\$8.41	\$16.82
	3678506CUM	SCREW,HEX FLANGE HEAD CAP	EA	10.0	\$23.76	\$237.60
	3678838CUM	PLUG,THREADED	EA	1.0	\$13.27	\$13.27
	3682826CUM	SEAL,GROMMET	EA	2.0	\$3.72	\$7.44
	3683537CUM	GASKET-EXH GAS RCN VALVE	EA	1.0	\$14.06	\$14.06
	3684355CUM	GASKET-EXH OUT	EA	1.0	\$16.58	\$16.58
	3684359CUM	GASKET-EXH OUT CONNECTION	EA	1.0	\$13.79	\$13.79
	4298626CUM	CAMSHAFT	EA	1.0	\$2,114.86	\$2,114.86
	4299125CUM	SEAL-REAR 0RING	EA	1.0	\$16.60	\$16.60
	4352145CUM	GASKET-SET UPPER ENGINE	EA	1.0	\$1,275.34	\$1,275.34
	5658283PXCUM-C	HEAD, CYLINDER -Core 3412280D	EA	-1.0	\$110.00	(\$110.00)
Original Invoice: 01BW140086						
	4962609CUM	SEAL-RECTANGULAR RING	EA	1.0	\$17.36	\$17.36
	4962610CUM	SEAL-RECTANGULAR RING	EA	2.0	\$5.21	\$10.42
	5484228CUM	LEVER,ROCKER	EA	1.0	\$131.54	\$131.54
	5484229CUM	LEVER,ROCKER	EA	2.0	\$131.54	\$263.08
	5484230CUM	LEVER,ROCKER	EA	2.0	\$144.94	\$289.88
	5484231CUM	LEVER,ROCKER	EA	2.0	\$139.92	\$279.84
	5658283PXCUM	HEAD, CYLINDER	EA	1.0	\$4,986.60	\$4,986.60
	5658283PXCUM-C	HEAD, CYLINDER -Core 3412280D	EA	1.0	\$110.00	\$110.00

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5719778CUM		GASKET, CAMSHAFT COVER		EA	1.0	\$10.47	\$10.47
90-0012		CLAMP-V BAND 4"		EA	1.0	\$15.30	\$15.30
EC3501		COOLANT-TRP ELC 50/50 JUG		EA	3.0	\$13.46	\$40.38
ShopSup		Shop Supplies			1.0	\$628.74	\$628.74
Task 3 Subtotals						Parts:	\$9,828.67
						Core Chg:	\$110.00
						Core Ret:	(\$110.00)
						Labor:	\$6,300.00
						Miscellaneous:	\$628.74
Task 3 Subtotals							\$16,757.41

Task: 4 30-00000 Electrical Group Department: Service

Complaint: CUSTOMER STATES THAT HAZARDS DO NOT WORK

Correction: check operation of the turn signal and the hazards. the hazards do not work. check and inspect the fuses. find a wiring diagram. remove the right hand dash panel. ohms test from j24 to p23. good. find the turn stalk module and remove it. the j22 connector at the module has corrosion in the conector both sides. open the module. there is corrosion inside. P&A the module. take pictures. talk with B Elkins got ok to repair as needed. he over nighted the part. start to clean the connector installed new turn stock module and put dash back together

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price	
	P21-1019-303	MODULE-CONTROL TURNSTALK	EA	1.0	\$1,207.75	\$1,207.75	
	FRT-IN	P21-1019-303		1.0	\$87.60	\$87.60	
	ShopSup	Shop Supplies		1.0	\$62.87	\$62.87	
Task 4 Subtotals						Parts:	\$1,207.75
						Labor:	\$630.00
						Miscellaneous:	\$150.47
Task 4 Subtotals							\$1,988.22

Task: 5 81-00000 Heater Assembly - Cargo Department: Service

Complaint: CUSTOMER STATES THAT APU IS INOP

Correction: check the controll panel in the sleeper. it has no power. will not power up. take the top cover off the apu. covered in dirt. blow the engine compartment out. found a fuse checked it. it was good. remove the panel in the sleeper where the control panel was mounted. no fuses. look on the internet. trace wires to the main power box in the storage compartment of the sleeper. checked for power inside. none. traced the power wire back to the apu. checked a fuse in the power wire inside the apu. good remove the lower cover. there is a stud there where the wires are hooked to. no power. found a disconnect plug on the inside of the rail. no power. remove the step to access the battery box. the feed wire went into a fuse block. it has power and the fuse is not blown. traced the wires. did not find any damaged places in the wires. checked for power at the disconnect plug several times. one side was bolted to a bracket. cut the plastic ties on the feed wires and plulled on the and removed the wires from the loom. found the positive feed wire corroded in half at the back of the disconnect plug. that side of the plug was cracked. ordered a new plug. unhook th epower at the battery. cut off wire until i got into good wire again. clamped and then soldered on new ends. put on shrink tube. the new plug was different than the old one. had parts get another. tapped the connector ends and in hte middle. it is not an all wheather connector. reconnect the power. the apu starts and runs. smokes bad. check the air cleaner. it is new. will park the truck outside and let it run.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	3BY23	Power Connector: Two Pole,	EA	2.0	\$17.73	\$35.46
	ShopSup	Shop Supplies		1.0	\$131.20	\$131.20

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Task 5 Subtotals Parts: \$35.46
 Labor: \$1,314.60
 Miscellaneous: \$131.20
Task 5 Subtotals \$1,481.26

Task: 6 43-010006 Exhaust System

Department: Service

Complaint: FOUND THE EXHAUST BELLOWS LEAKING

Correction: got ok from B Elkins to replace the bellows. remove and clean up the gasket surfaces. found the exhaust support bracket at the right rear motor mount was broken . part is truck down. B Elkins said to put it back together with out repairing it. the exhaust pipe on the rear of the bellows is at least 1 inch to far back. it needs to moved forward. take pictures. had to remove the section of pipe behind the turbo to adjust the angel of the pipe. replace the gasket and clamp. loosen the support brackets and move the pipe behind the bellows forward. tighten the clamps and brackets. put the step assembly back on that i removed for access.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	2866337CUM	GASKET-EXHAUST CIRCULAR 5EPA-Y	EA	2.0	\$14.83	\$29.66
	3684359CUM	GASKET-EXH OUT CONNECTION	EA	1.0	\$13.79	\$13.79
	90-0012	CLAMP-V BAND 4"	EA	1.0	\$15.30	\$15.30
	90-0013	CLAMP-V BAND 5" EPA-Y	EA	2.0	\$15.84	\$31.68
	M66-6542-0335	PIPE-EXHAUST STR 5"X335 FEPA-Y	EA	1.0	\$334.85	\$334.85
	ShopSup	Shop Supplies		1.0	\$61.48	\$61.48
				Task 6 Subtotals	Parts:	\$425.28
					Labor:	\$616.00
					Miscellaneous:	\$61.48
				Task 6 Subtotals		\$1,102.76

Customer Tax ID: 20-5032930

Detail Tax Info:

Sales Tax \$0.00
 \$0.00

Total Parts:	\$12,612.14
Total Core Charge:	\$110.00
Total Core Ret:	(\$110.00)
Total Labor:	\$11,477.90
Total Miscellaneous:	\$1,233.10
Invoice Subtotal:	\$25,323.14
Total Tax:	\$0.00
Total Invoice:	\$25,323.14

Payment Method Terms Due Date
 Charge Net 10th 9/10/2023



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Remit To:
 MOTOR POWER - BILLINGS
 P.O. Box 80030
 Billings, MT 59108-0030

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CUSTOMER'S SIGNATURE _____

Accounts are due by the 10th of the following month. All invoices not paid in 30 days will be subject to a 1.25% per month FINANCE CHARGE. (APR 15%)