



1022 N. TURBINE DR.  
RAPID CITY, SD 57703  
P: (800) 233-3437  
F: (605) 341-7516  
605-348-4900



BILL TO  
ROYAL 3 INC - 75700  
6850 W 63RD STEER  
BEDFORD PARK IL 60638  
P: (630) 566-1338  
F:

DELIVER TO  
ROYAL 3 INC - 75700  
6850 W 63RD STEER  
BEDFORD PARK IL 60638  
P: (630) 566-1338  
F:

**SERVICE INVOICE: R201048935:06**

DATE ARRIVED		DATE INVOICE	SALES TYPE	ADVISOR	TERMS	CUSTOMER REFERENCE		
3/31/2025 9:31:18AM		5/1/2025	SRET	RICKYW	CASH			
YEAR	MAKE	MODEL	VIN	CUSTOMER UNIT #	ENGINE HOURS	IN SERVICE	Component Serial #	ODOMETER
2023	FTL	PT126SLP	3AKJHHDR6PSNM3962		0	5/6/2022	472912S0926143	450492

**Sold Operations**

**JOB #6 49 EXHAUST / AFTERTREATMENT**

COMPLAINT EXHAUST / AFTERTREATMENT / DIAGNOSTIC TIME AND LABOR  
CAUSE DPF and one box damaged due to overtemp from running engine with exhaust bridge off.  
CORRECTION Removed step mount and fairing attachment point. Removed the DPF cover and removed and replaced DPF filter. The filter has come apart so it is a bad core. After replacing the DPF due to overheating, performed a parked regen. Running the regen, we can see the SCR NOx reading is off. Inlet NOx reading 620 ppm, outlet around 834 ppm. I ran a def flow test, and it flowed 125 ml. I ran a NOx sensor verification test, and the sensors are reading correctly. I ran another regen, still getting the same reading. Replaced the One Box, swapped DPF to the new box. Replaced various sensors and tubing that would not come out of the failed one box without pulling the threads. After new one box was installed, performed parked regen and SCR efficiency tests to reset.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
	LABOR 49	EXHAUST / AFTERTREATMENT		1,400.00
1	FRT	703003 FREIGHT	38.48	38.48
1	FRT	703003 FREIGHT	16.38	16.38
1	FRT	703003 FREIGHT	67.95	67.95

Prepay: \$0 Parts: \$0 Labor: \$1,400.00 Misc: \$122.81 Sublet: \$0 \$1,522.81

**JOB #8 qc QUALITY INSPECTIONS**

COMPLAINT QUALITY INSPECTIONS  
CAUSE  
CORRECTION Pinging noise started to occur during the final test drive. Sent back for diag.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
	LABOR QC	QUALITY INSPECTION		0.00

Prepay: \$0 Parts: \$0 Labor: \$0 Misc: \$0 Sublet: \$0 \$0.00

**JOB #9 01 ENGINE**

COMPLAINT LABOR FOR FUEL INJECTORS  
CAUSE



SERVICE INVOICE: R201048935:06

ESTIMATE: E201035242

**Sold Operations (Cont.)**

**CORRECTION**

On the test drive, it was running great, but then I heard fuel pinging sounds. I drove back to the shop and hooked up the laptop, cut out #1, and the pinging stopped. I pulled the air cleaner box, valve cover, injector harness, and #1 injector. I cleaned the head and installed a new injector, injector harness, valve cover, and air cleaner box. I programmed the injector code. Test drove, pinging noise still present. Replaced the quantity control valve and rechecked, still present. Still ping after I replaced #1 injector. On the test drive, the fuel system started pinging, and the CEL came on. SPN 521031/FMI 16 Fuel Rail Pressure Too Low.

Step 1: Does this engine have a starting issue complaint? NO

Step 2: Fuel level using parameter Fuel Tank Level. Fuel tank is full.

Step 4: Was the fuel tank level over ¼ tank (25%) when the code was logged? NO

Step 5: 521031/FMI 16 came on too.

Step 6: Fuel contamination. Fuel is clean.

Step 7: External fuel leaks. None.

Step 8: Does this unit have a pinging sound from the fuel system? YES.

Pinging in Fuel System

Step 1: Does the vehicle have a starting issue complaint? NO.

Step 2: Was there a recent repair that opened the vehicle's fuel system? Yes, I tried to test drive it, but the fuel system pinged badly.

Step 3: Remove and inspect the needle return pressure control valve. I found that the valve O-ring was not seated, so I replaced it, and now it runs better. But on a test drive, I still get pinging under light load around 1,000 RPM.

Step 4: Perform the low-pressure leak test. See FIS Low Pressure Leak Test. It passed; I'll add the log file from the test.

Aerated Fuel Test: I hooked up clear fuel lines, primed the fuel system, and found bubbles. So, I resealed the frame-mounting fuel filter, which fixed all the bubbles. I test-drove the truck again, and it still has fuel ping around 1,000 RPM under a bit of load.

I started a case # 14432683. He said to replace the Injectors.

Replaced remaining 5 injectors. Test drove, noise was gone.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
	LABOR 01	ENGINE		1,120.00
Prepay: \$0    Parts: \$0    Labor: \$1,120.00    Misc: \$0    Sublet: \$0    \$1,120.00				

**JOB #10 01    ENGINE**

COMPLAINT    ENGINE LABOR 50%

CAUSE

CORRECTION    50% labor from job 1.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
	LABOR 01	ENGINE		4,200.00
Prepay: \$0    Parts: \$0    Labor: \$4,200.00    Misc: \$0    Sublet: \$0    \$4,200.00				





SERVICE INVOICE: R201048935:06

ESTIMATE: E201035242

**Factory Warranty.** We do not guarantee that any repairs you request will be covered by your manufacturer warranty. We do not issue your warranty; we are merely a factory-authorized warranty repair facility. We will do our best to determine your warranty coverage prior to the repair, and we will submit to the manufacturer repairs that we believe qualify for manufacturer warranty coverage. But the manufacturer may deny your claim. In the event the manufacturer denies your claim, you are fully responsible for all charges incurred.

**Workmanship Warranty Disclaimer.** We warranty labor and/or workmanship for 30 days following the completion of repair. No claim will be honored past the stated 30-day period. We expressly disclaim all other warranties, either express or implied, including any implied warranties of merchantability or fitness for a particular purpose. We do not assume nor authorize any other person to assume for it any liability in connection with the sale of the parts or repair. In no event are we liable to you or any third-party for any indirect, special, punitive, incidental, or consequential damage connected to, or arising out of, our work on your vehicle whether the damage arises from breach of contract or tort or whether we have been previously advised of the possibility of such damage. If we are found liable to you for any damage, our damages are limited to the replacement of parts and/or the labor cost of repeating the service.

**Acts of God.** We are not responsible for damage to your vehicle due to acts of God that occur while your vehicle is in our possession. Acts of God include but are not limited to wind, hail, fire, and flood.

**Payment.** All charges for repairs, including labor and materials, are due at or before the time we tender the vehicle to you. We may tender the vehicle to you through a phone call, mail, email, or any other means of communication that shows, upon payment, we are returning the vehicle to your custody. If any charges remain unpaid for 30 days past due, we may hire attorneys to help with collection, and you are responsible for paying those attorney's fees. Further, we will charge you interest monthly on all past due amounts at a rate of 16% per annum.

**Storage Charge.** If you do not take custody of the vehicle within three days after we tender the vehicle to you, we will charge you a storage fee of \$25.00 per day.

**Credit Card Surcharge:** Our credit card processor will impose a surcharge on credit cards that will not be greater than our cost of acceptance. This surcharge will not reflect on this invoice but will reflect on credit card receipt.

LABOR	\$6,720.00
PARTS	\$0.00
MISC	\$122.81
SUBLET	\$0.00
PREPAY	\$0.00
<b>SUBTOTAL</b>	<b>\$6,842.81</b>
SHOP SUPPLIES	\$750.00
MISC SUPPLIES	\$0.00
TAX	\$470.75
<b>TOTAL</b>	<b>\$8,063.56</b>

Please Remit Payment to:

FLOYD'S TRUCK CENTER-RAPID  
CITY

PO BOX 536  
RAPID CITY SD 57709  
605-348-4900

Scan to leave a Google Review



AUTHORIZED BY \_\_\_\_\_

DATE \_\_\_\_\_