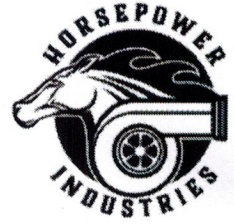


**Horsepower Industries**

Site 171 station 1  
 Dapp AB T0G 0S0  
 jeremy@horsepowerindustries.ca  
 GST/HST Registration No.: 708971072RC0001  
 Business Number 708971072RC0001



**INVOICE**

BILL TO

INVOICE 1582  
 DATE 08/15/2024  
 TERMS Due on receipt  
 DUE DATE 08/15/2024

DATE	ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
08/15/2024	Heavy Labor	Travel to site and found #5 and #2 injectors failed, scheduled to come back and pull injectors, traveled back and pulled injectors, customer wants new ones ordered and installed, traveled back with new injectors, installed. While doing valve adjustment found that #5intake cam lobe to spun on camshaft, ordered new cam shaft. Travel back with new cam and install.	12	140.00	1,680.00
08/15/2024	Heavy parts	DCRI105470 fuel injector	6	600.00	3,600.00
	Heavy parts	Camshaft 48108097	1	2,300.00	2,300.00
	Heavy parts	oil 15W40	2	149.85	299.70
	Heavy parts	B7217 lube filter	1	52.35	52.35

SUBTOTAL	7,932.05
GST @ 5%	396.61
TOTAL	8,328.66
PAYMENT	6,400.00
<b>BALANCE DUE</b>	<b>\$1,928.66</b>

**TAX SUMMARY**

	RATE	TAX	NET
GST @ 5%		396.61	7,932.05



# ROCKY MOUNTAIN EQUIPMENT

Rocky Mountain Equipment LP o/a Rocky Mountain Equipment

EDMONTON  
17720 - 105 Avenue  
Edmonton, AB T5S 1G4  
Tel: (780) 486 - 2273  
Fax: (780) 483 - 0386  
Toll Free: 1-855-763-1427

# INVOICE

Ship to:

Invoice to:

Branch <b>EDMONTON</b>		
Date 11/21/24	Time 13:15:17 (O)	Page 01
Account No.	Phone No.	Reference No. W24064
Ship Via	Purchase Order	
G.S.T. No.		
Credit Card No.	Salesperson Q51	

## Description of Work and Parts

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS	Fold
094520	EXCAVATOR CX350B	7070	N8SAP1137			----

\*\* Need a quick update on your Parts, Service or Sales Status?  
Text messaging is now available with RME!  
Please text your local branch main phone number.

\*\*

SEGMENT# 1 C 02087 N/A 10/17/24 10/17/24

TRAVEL TO AND FROM UNIT

COMPLAINT:

Travel

CAUSE:

Travel

CORRECTION:

Site location:

54.38596° N, 113.24070° W

Oct 17:

Travel from rme to site location  
Travel from site location to rme.

Nov 04:

Travel from rme to site location  
Travel from site location to rme

Nov 19:

Travel from rme to site location  
Travel from site location to rme

14100003

LABOR	1699.44
SEGMENT TOTAL==>	1699.44

SEGMENT# 2 C 02087 N/A 10/17/24 10/17/24

CHECK AND REPAIR FOR NO START

COMPLAINT:

Engine unable to run

CONTINUED ON PAGE 02

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(date)

(signature)

(date)





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EDMONTON		
Date	Time	Page
11/21/24	13:15:17 (O)	02
Account No.	Phone No.	Reference No.
		W24064
Ship Via	Purchase Order	
	G.S.T. No.	
Credit Card No.	Salesperson	
	Q51	

## Description of Work and Parts

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS	Fold - - - -
094520	EXCAVATOR	7070	N8SAP1137			
	CX350B					

CAUSE:

Engine not timed properly.

CORRECTION:

Diagnose for engine not starting.

Customers was informed that wiring harness from engine to engine controller in cab had failed.

Test out harness.

No issues found.

Hook up multimeter.

Complete voltage drop test

Found 0.6 volts of a voltage drop over harness.

No issues with harness.

Talk to customer about previous work completed on unit.

Inspect sensor.

No issues found on sensor.

Fault code remains active for cam out of phase.

Disconnect sensor.

Fault code changes, indicating that sensor is reading, but engine is out of phase.

Customer informed that injectors were replaced and camshaft was replaced.

Disassemble engine and check timing.

Found camshaft gear about two teeth out.

Also noticed that camshaft scissors gear was not preloaded properly.

This caused gear to be 2 to 4 teeth out of phase.

Remove rocker shaft.

Remove cam shaft.

During inspection of camshaft gear, technician noticed that scissor gear internals are damaged.

CONTINUED ON PAGE 03

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Toll Free: 1-855-763-1427

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Ship to:

Invoice to:

Branch		
EDMONTON		
Date	Time	Page
11/21/24	13:15:17 (O)	03
Account No.	Phone No.	Reference No.
		W24064
Ship Via	Purchase Order	
	G.S.T. No.	
Credit Card No.	Salesperson	
	Q51	

### Description of Work and Parts

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS	Fold - - - -
094520					
EXCAVATOR	7070	N8SAP1137			
CX350B					

New scissor gear parts need to be ordered.  
 Nov 04:  
 Reassemble camshaft and camshaft gear  
 Preload scissor gear  
 Set engine to TDC 1  
 Install camshaft  
 Install camshaft bridge 2 & 3  
 Install rocker shaft  
 Bolt down main rocker shaft bolts gradually to 41 lbs/ft  
 Install end bolts and nuts.  
 Gradually torque down to 20 lbs/ft  
 During camshaft bridge #4 gradual torque down, a slight  
 ping was heard at a torque of 14 lbs/ft  
 Inspect unit.

Inform customer of issue.  
 Loosen all bolts to avoid stress on rocker shaft or  
 camshaft.  
 Gather information on required parts for repair.  
 Nov 19:  
 Customer requested to re-assemble engine as is, as this  
 unit will be getting moved to auction.  
 Remove valve cover from unit  
 Reinstall camshaft into unit  
 Reinstall rocker shaft  
 Torque all hardware as per spec  
 Inspect injectors  
 Found injectors not programmed at this point yet.  
 Remove injector harnesses.  
 gather injectors cal code information

CONTINUED ON PAGE 04

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Invoice to:

Branch		
EDMONTON		
Date	Time	Page
11/21/24	13:15:17 (O)	04
Account No.	Phone No.	Reference No.
		W24064
Ship Via	Purchase Order	
	G.S.T. No.	
Credit Card No.	Salesperson	
	Q51	

### Description of Work and Parts

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS	Fold - - - -
094520		7070 N8SAP1137			

EXCAVATOR  
CX350B

Program cal codes on unit as per new injectors:

- 1: 5555 6F00 EFD4 E7F6 F0FB FCB2
- 2: 5545 5CFE EAE8 EDF0 F5FE ED4B
- 3: 5535 3207 03E1 F102 FEFF FFBA
- 4: 5545 41EF D0CD D905 E9EF 0D74
- 5: 5526 17EF D1D2 D6F0 EFEC E34E
- 6: 5555 60FE DFCB D6F4 EAEF F75A

Verify proper codes being programmed into unit  
install cover onto unit

Check oil level

Inspect fuel return tube as they appear to have no gaskets.

Return line ok

Attempt to start engine

Fault code 0340 and 1340 remain active on unit

Unable to start unit

Remove cover and verify proper timing on crankshaft gear

No issues found with gear

Inspect cam speed sensor

No issues found with sensor

Inspect harnesses and connectors

No issues found

Attempt starting unit.

Still unable to start at this time.

Verify again to make sure timing of camgear is installed properly.

Gear timed properly.

No loose hardware found.

Inspect gear preload.

Gear ok.

Hook up EST and check for operation of unit

CONTINUED ON PAGE 05

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		W24064
Ship Via	Purchase Order	
	G.S.T. No.	
Credit Card No.	Salesperson	
	Q51	

## Description of Work and Parts

STK#/FLEET#	EXCAVATOR	HRS	PIN/EIN	WARRANTY DATE	HRS	Fold - - -
094520	EXCAVATOR CX350B	7070	N8SAP1137			
Erase fault codes and start unit Unit instantly starts up at this point. Verify proper oil to camshaft bearings and rocker shaft Unit ok Install valve cover Install shroud Install all removed clamps and hoses Install all covers on unit. Remove tarp and heaters Run unit to allow all air ingress in fuel to be removed. Install paneling inside cab. Test unit for operation Unit is operational.						
FREIGHT				1	34.89	34.89
289838A1	WASHER			1 N	17.17	17.17
438128A1	BOLT			1 N	7.67	7.67
87378150	RING, SNAP			1 N	8.66	8.66
87378154	SPRING			1 N	52.15	52.15
87378155	SPRING			1 N	16.18	16.18
87378169	PIN			2 N	1.80	3.60
					PARTS	140.32
					LABOR	3050.50
14100003				SEGMENT TOTAL==>		3190.82

\*\*\*\*\* WORK ORDER TOTALS \*\*\*\*\*

PARTS	140.32
LABOR	4749.94
DISPOSAL FEE	106.76

CONTINUED ON PAGE 06

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Credit Card No.	Salesperson Q51	

## Description of Work and Parts

STK#/FLEET#	EXCAVATOR	HRS	PIN/EIN	WARRANTY DATE	HRS	Fold - - -
094520	CX350B	7070	N8SAP1137			
				TRUCK SUPPLIES		274.54
				SUB TOTAL==>		5271.56
				GST 797594660		263.58
				CNH PRODUCTIVITYPLUS		5535.14

Store ID: 16163681004  
Client ID: 3359646007  
Request ID: 01Z6MEVJ1U00P7RMER1Q668KR6POJCCM

By signing I certify that I am authorized to use this Account, to sign this receipt, and that I agree that the total amount of this invoice is repayable in accordance with the Credit Agreement applicable to the Account.

PLEASE REMIT TO:  
CNH Industrial Capital c/o T46670C  
P.O. Box 4667, STN A  
Toronto, ON M5W 5H9

I hereby authorize the above work to be done along with the use of necessary materials. You and your employees may operate above machine for purposes of testing, inspection or delivery at my risk. I agree to pay cash on delivery of machine or on terms satisfactory with you and until paid in full, an express mechanic's lien is acknowledged on above machine to secure the amount of repairs thereto. It is understood that the company assumes no responsibility for loss or damage by theft or fire to machine placed with them for storage, sale, repair or while being tested. Estimates are for labour only, materials additional.

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