



# INVOICE

BILLINGS, MONTANA - (406) 656-0202

YOUR CATERPILLAR DEALER  
SINCE 1929

SOLD TO  
JOHN MUGGLI CONTRACTING LLC  
PO BOX 67  
MILES CITY MT 59301-0067

Please Remit To: Harnish Lockbox LB1208  
PO Box 35144  
Seattle, WA 98124-5144

SHIP TO  
\*\*\*\*\*  
JOHN MUGGLI CONTRACTING LLC

1450 US HIGHWAY 12  
MT

INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER	CUSTOMER ORDER NUMBER	STORE	DIV	SALESMAN	TERMS	PAGE
BLW00243108	05-05-25	5792552	627H	90	G	BNN	2	1
PSO/WO NO.	DOC. DATE	PC	LC	MC	SHIP VIA		INV SEQ NO.	
BL41605	03-26-25	10	10	10			2801256	
MAKE	MODEL	SERIAL NUMBER	EQUIPMENT NUMBER	METER READING	MACHINE ID NO.			
AA	627H	*CAT0627HCDBW00240*		4907.0	B15650			
QUANTITY	ITEM	N/R	DESCRIPTION	UNIT PRICE	EXTENSION			

## TROUBLESHOOT MACHINE

COMPLAINT:4335: ASSEMBLE REAR HOOD AND CONTROL  
MODULE HARDWARE.

CAUSE:

RESULTANT DAMAGE:

COMPLICATIONS:

CORRECTION: REAR HOOD AND EXHAUST WAS ASSEMBLED  
ALONG WITH THE CONTROL MODULE HARDWARE.

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CUSTOMER COMPLAINT:REAR ENGINE WILL NOT START

CAUSE:ECM FAILURE

RESULTANT DAMAGE:NONE

COMPLICATIONS:NONE

CORRECTION:DROVE TO MACHINE AND CONNECTED LAPTOP.

CUSTOMER HAD REMOVED THE REAR CEM. WAS ABLE TO  
GET ENGINE TO START TWICE AND THEN IT WOULD NOT  
START AGAIN AND COULD NOT COMMUNICATE WITH REAR OR  
FRONT ENGINE. CUSTOMER DECIDED TO HAUL MACHINE  
TO SHOP. MACHINE ARRIVED AND STARTED TESTING ALL  
DATA WIRING FROM ECMS TO ECM. ALL WIRING TESTED  
GOOD. REMOVED REAR ENGINE ECM AND HAD SPEC SHOP  
BLANK ECM AND REPROGRAM. AT THIS POINT ECM WAS  
DETERMINED BAD. GOT NEW ECM AND PROGRAMMED.  
INSTALLED REAR ENGINE ECM AND ENGINE STARTS AND  
ALL DATA LINK CODE WENT AWAY. ONLY CODES AT THAT  
POINT WERE FOR REAR CEM. REMOVED REAR HOOD AND  
STRAIGHT PIPE. INSTALLED CEM ON ENGINE AND

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TERMS: ALL PARTS AND SERVICE INVOICES ARE DUE THE 10TH OF THE MONTH  
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Each payment or sum past due shall bear a late payment charge of the lesser of 1 1/2%  
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AMOUNT CREDIT ▶	



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COONNECTED HARNESS. ORDERED PIPING AND HOSES TO  
MAKE AIR CONNECTOINS. CONNECTED FUEL LINE AND  
COOLANT LINES. MACHINE WAS THEN PASSED OFF TO BE  
FINISHED BE ANOTHER TECH.

\*\*\*\*\*

9	5P-8245	WASHER-HARD	S	.81	7.29
9	6V-8197	BOLT	S	1.15	10.35
2	7X-2556	BOLT	S	6.88	13.76
1	9M-1974	WASHER	S	.36	.36
1	9N-0869	WASHER	S	.70	.70
2	9W-9952	WASHER	S	20.60	41.20
2	9W-9953	SLEEVE	S	5.19	10.38
1	9X-8256	WASHER	S	.34	.34
2	9X-8257	WASHER	S	1.32	2.64
1	9Y-6089	GASKET	S	5.36	5.36
2	034-1432	STRAP	S	2.68	5.36
1	134-1374	BOLT	N	2.36	2.36
1	162-2165	BOLT-HEX	S	2.25	2.25
1	20R-1834	CONTROL GP	S	2340.21	2340.21
1		CORE CHARGE	S	866.74	866.74
1		CORE RETURN	S	866.74	866.74
1	295-6236	WIRE AS	N	122.21	122.21
1	315-0225	CLAMP-WIRE	S	23.10	23.10
30	326-4516	TIE-CABLE	S	2.16	64.80
1	343-9012	BELLOWS AS	N	1233.46	1233.46
1	346-0334	CLAMP-BAND	S	26.51	26.51
1	352-4756	WIRE AS-HEAT	S	104.56	104.56
1	388-7016	CLAMP-BENT B	S	20.00	20.00

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TOTAL PARTS SEG. 01 4037.20 \*

FIELD LABOR	44.00 RT HOURS	8184.00
FIELD LABOR	6.50 OT HOURS	1599.00
SHOP LABOR	1.00 RT HOURS	165.00
SHOP LABOR	1.00 OT HOURS	218.00

TOTAL LABOR SEG. 01 10166.00 \*

1.00	CLAY SHIP&HANDLE	118.00
1.00	DEN SHIP&HANDLE	39.00
1.00	UPSSCS	36.93
1.00	LARGE SCHEMATICS	19.99

TOTAL MISC CHGS SEG. 01 213.92 \*

SEGMENT 01 TOTAL 14417.12 T

## ASSEMBLE MACHINE

4957

COMPLAINT: FINISH ASSEMBLY OF MACHINE.

CAUSE: ECM FAILURE

RESULTANT DAMAGE: N/A

COMPLICATIONS: N/A

CORRECTION: INSTALL LAST OF EXHAUST TUBING. CHECK

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ALL WIRING FOR BOTH ENGINES. INSTALL BRACKET FOR REAR ENGINE ECM AND HARNESS. CHECK FLUIDS FOR BOTH ENGINES. CHECK FAULTS BEFORE STARTING ENGINES. START REAR ENGINE. MONITOR FOR FAULTS AND LEAKS. START FRONT ENGINE. MONITOR FOR FAULTS AND LEAKS. BOTH ENGINES HAVE A FAULT FOR "ENGINE TIMING NEEDS CALIBRATED". PERFORM TIMING CALIBRATION ON BOTH ENGINES. FAULTS CLEARED. PERFORM REAR ENGINE REGEN TO CONFIRM CEM IS WORKING PROPERLY. FRONT ENGINE HAS A FAULT FOR HIGH SOOT LOAD. PERFORM A REGEN ON FRONT ENGINE. FAULT WENT INACTIVE. INSTALL ALL HOODS AND PANELS ON MACHINE. RELEASE MACHINE TO CUSTOMER.

\*\*\*\*\*

SHOP LABOR	22.00 RT HOURS	3630.00
WELD SHOP LABOR	1.50 RT HOURS	268.50
TOTAL LABOR		3898.50 *
SEGMENT 05 TOTAL		3898.50 T

REPROGRAM ENG ELECTRONIC CONT MOD

COMPLAINT:REPLACE ECM  
CAUSE:CUSTOMER REQUEST  
RESULTANT DAMAGE:NONE

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COMPLICATIONS:NONE

CORRECTION:FLASHED REMAN ECM. PROGRAMMED INJECTOR

TRIM FILES,ENGINE SERIAL NUMBER,PRODUCT ID. AND

FLS FTS SETTINGS.

\*\*\*\*\*

SEGMENT 10 TOTAL F/R LBR 165.00 \*  
165.00 T

## TRAVEL TO/FROM MACHINE

CNE ROUND TRIP

\*\*\*\*\*

JOHN MUGGLI CONTRACTING LLC  
1450 US HIGHWAY 12  
MILES CITY, MT 59301  
MT

TRAVEL TIME LBR	3.00 RT HOURS	447.00
TRAVEL TIME LBR	2.50 OT HOURS	485.00
TRAVEL TIME LBR	0.50 PT HOURS	121.00
TOTAL LABOR	SEG. 99	1053.00 *
307.00 MILEAGE		1473.60
TOTAL MISC CHGS	SEG. 99	1473.60 *

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QUANTITY	ITEM	N/R	DESCRIPTION	UNIT PRICE	EXTENSION			

SEGMENT 99 TOTAL 2526.60 T

CONSUMABLES 700.00 T

ENVIROMENTAL FEE 458.48 T

BILLINGS NT .00 T

\* \* \* INVOICE COPY \* \* \*

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