

Invoice No: **231648**

INVOICE

DUPLICATE 2

Page 1 of 3

PETERSON
TRUCKS3710 REGIONAL PARKWAY
SANTA ROSA, CA 95403
www.petersontrucks.comAccounting: (855) 204-9817 Toll Free: (888) 818-1806
SERVICE ADVISOR: 7237 Dmitry Wert**ALEXANDER VALLEY SOILS**
3060 I ROAD
REDWOOD VALLEY, CA 95470Cell:
Email:

YEAR		MAKE/MODEL		VEHICLE IDENTIFICATION	
16		KENWORTH T680		1XKYD49X0GJ475204	
REPAIR ORDER WRITTEN	DATE READY	TELEPHONE NO.		CUSTOMER NO.	TAG
11JUL22	29AUG22			COD5204	TRI112
UNIT #		DELIVERY DATE			
RI112		01JAN16			
LICENSE		MILEAGE IN / OUT		PO NO.	
9E26528		581727 \ 581727			

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
------	--------	------	------	-------	------	-----	-------

B CHECK/REPORT/ESTIMATE: CUSTOMER STATES THAT THE COOLANT RESERVIOR IS BUILDING EXCESSIVE PRESSURE, BLACK RESEDUE NOTED. CHECK AND ADVISE

G09-T1 DIAGNOSE AND REPLACE ENGINE

7223 CS1

1594 CS1

14720.00 14720.00

DISC-L DISCOUNT ON LABOR

-3380.00 -3380.00

1 095050 BRAKLEEN

7.48 4.01 4.01

14 ZJB227811GA CHV DELO ELC PRMX 50/50 6/1G A

17.04 10.72 150.08

11 FLTLP15W40CK4G FLEETRIT, ENGINE OIL, ENGINE OI

28.35 21.67 238.37

11 CRF CAL RECYCLE FEE GAL

0.24 0.24 2.64

11 MOF MOTOR OIL FEE GAL

0.05 0.05 0.55

1 2866636 GASKET, AFM DEVICE

16.94 14.55 14.55

1 FUL4305294 GASKET SHIFT TOWER

25.45 13.17 13.17

1 ZZBK313 CLUTCH BRAKE ASM

69.55 48.60 48.60

1 FLT63062RS2 BEARING, HIGH TEMP FLYWHEEL PI

64.24 30.46 30.46

1 3684359 GASKET, EXH OUT CONNECTION

15.76 13.54 13.54

1 4966441 GASKET, EXH OUT CONNECTION

21.71 18.65 18.65

3 FLTLATFMD3QKK FLEETRIT ATF MD3 MERCON/DEXRO

8.41 6.27 18.81

8 FLX5526100 HOSE EXT

5.68 3.66 29.28

1 DR104004 TANK, SURGE

1267.45 679.35 679.35

1 V38-1114 FITTING

43.58 23.36 23.36

1 5526-062X4000 HOSE

23.40 12.54 12.54

2 HWC04428 BOLT

63.68 34.13 68.26

2 HWC05722 WASHER

10.45 5.60 11.20

1 F50-1548 HOSE, RADIATOR

96.18 51.55 51.55

1 VH11600 SEAL-KIT, A/C

10.60 5.68 5.68

1 5515-250 HOSE, RADIATOR

140.98 75.56 75.56

2 05-16401 MOUNT, ENGINE-FRT

69.68 37.35 74.70

1 FRT FREIGHT

14.50 14.50 14.50

1 DR7046RX ENG ISX 15 13 B 450@1650

50524.66 40999.90 40999.90

CORE CHARGE C

11700.00 11700.00

I hereby authorize the repair work herein set forth to be done along with the necessary material and agree that you are not responsible for loss or damage to vehicle or articles left in vehicle in case of fire, theft or any other cause beyond your control or for any delays caused by unavailability of parts or delays in parts shipments by the supplier or transporter. I hereby grant you and/or your employees permission to operate the vehicle herein described on streets, highways or elsewhere for the purpose of testing and/or inspection. An express mechanic's lien is hereby acknowledged on above vehicle to secure the amount of repairs thereto. I HEREBY ACKNOWLEDGE RECEIPT OF A COPY HEREOF. CUSTOMER SIGNATURE	DESCRIPTION	TOTALS
	LABOR AMOUNT	
	PARTS AMOUNT	
	GAS, OIL, LUBE	
	SUBLET AMOUNT	
	MISC. CHARGES	
	TOTAL CHARGES	
	LESS INSURANCE	
	SALES TAX	
	PLEASE PAY THIS AMOUNT	

REMIT TO: PETERSON TRUCKS, INC. P.O. BOX 101777 Pasadena, CA 91189-1777

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3060 I ROAD
REDWOOD VALLEY, CA 95470

Cell:
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YEAR		MAKE/MODEL		VEHICLE IDENTIFICATION	
16		KENWORTH T680		1XKYD49X0GJ475204	
REPAIR ORDER WRITTEN	DATE READY	TELEPHONE NO.		CUSTOMER NO.	TAG
11JUL22	29AUG22			COD5204	TRI112
UNIT #		DELIVERY DATE			
RI112		01JAN16			
LICENSE		MILEAGE IN / OUT		PO NO.	
9E26528		581727 \ 581727			

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
				S/N 60845617			
1				FLX5526062 HOSE EXT	3.80	2.46	2.46
2				8T3282 WASHER	1.44	1.23	2.46
2				6V7688 LOCKNUT	12.30	10.49	20.98
1				4988280 GASKET, HYDRAULIC PUMP	4.87	4.60	4.60
2				ZST491208 CLAMP, AERO SEAL -SAE 8 CLAMPIN	2.16	1.74	3.48
1				FLTEC40VBS CLAMP, QUICK LATCH DESIGN V-INS	48.98	24.46	24.46
2				ZSTS760AB4 SLEEVE, NYLON TUBE SLEEVE 1/4	0.48	0.26	0.52
3				ZST491216 CLAMP, AERO SEAL -SAE 16 CLAMPI	2.29	1.85	5.55
1				TECHK350 HOSECLMP, CLAMP-HOSE ALL SS CON	17.27	10.64	10.64
1				ZST491212 CLAMP, AERO SEAL -SAE 12 CLAMPI	2.25	1.82	1.82
50				7K1181 STRAP CABLE	0.83	0.47	23.50
2				1658835C91 STRAP, KIT U-JT STRAP&BOLT 1710	122.55	34.05	68.10
14				1364877 SPLICE WIRE	1.45	1.24	17.36
-1				DR7046RX CORE RETURN	11700.00	11700.00	11700.00
1				D84-1000-6122180 BELT	234.58	125.73	125.73
PARTS:				42907.78 LABOR: 14720.00 OTHER: -3376.81	TOTAL LINE B:	54250.97	

581727

**OLD ECM INSTALLED ON NEW ENGINE S/N 60845617 AT ECM ENGINE

DISTANCE OF 581,759 MILES AND 14,719 HOURS ENGINE RUN TIME**

7/11/22 7223, GOT ECM DOWNLOADS FOUND LOW COOLANT LEVEL FAULTS.

VERIFIED CUSTOMERS COMPLAINT. T/S FOR EXCESSIVE COOLING SYSTEM

PRESSURE. TESTED PRESSURE CAP - OK. INSPECTED AND ISOLATED EGR COOLER

FOUND NO SIGNS OF COOLANT PRESENT AND NO EXCESSIVE PRESSURE IN COOLING

SYSTEM WITH COOLER BY-PASSED. ISOLATED AIR COMPRESSOR WITH NO CHANGE IN

CONDITION. PERFORMED BUBBLE TEST CUTTING OUT CYLINDERS WAS UNABLE TO

ISOLATE ANY ONE CYLINDER. RAN ENGINE UP TO OPERATING TEMP. REMOVED OIL

PAN, STIFFENING PLATE AND PICK UP TUBE, FOUND CYLINDER #2 HAS COOLANT

RUNNING DOWN BETWEEN PISTON AND LINER. REMOVED ITEMS NEEDED TO REMOVE #

2 INJECTOR, PRESSURIZED COOLING SYSTEM AND LET SIT OVER NIGHT. 7/13/22

VERIFIED NO SIGNS OF COOLANT LEAKING FROM INJECTOR SLEEVE INTO

CYLINDER. ADVISED CUSTOMER OF FINDINGS AND PUSHED TRUCK OUT OF SHOP.

7/21/22 7223 PUSHED TRUCK INTO SHOP, REMOVED ALL PARTS NECESSARY TO

REMOVE CYLINDER HEAD. REMOVED CYLINDER HEAD, FOUND COOLANT BUILT UP ON

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	PARTS AMOUNT	
	GAS, OIL, LUBE	
	SUBLET AMOUNT	
	MISC. CHARGES	
	TOTAL CHARGES	
	LESS INSURANCE	
	SALES TAX	
	PLEASE PAY THIS AMOUNT	

REMIT TO: PETERSON TRUCKS, INC. P.O. BOX 101777 Pasadena, CA 91189-1777

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9E26528		581727 \ 581727			

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EXHAUST VALVES. REMOVED EXHAUST VALVES FROM HEAD AND FOUND A LARGE AMOUNT OF COOLANT CALCIUM BUILT UP IN HEAD PORTS. CLEANED ENGINE BLOCK AND PERFORMED CYLINDER LINER PROTRUSION. FOUND CYLINDERS 2&4 OUT OF MINIMUM SPEC. 8/25/22 7223, CUSTOMER AUTHORIZED ENGINE REPLACEMENT. REMOVED AND REPLACED ENGINE WITH COMPLETE DROP IN, REINSTALLED ALL PARTS REMOVED WITH NEW GASKETS AND HARDWARE. NEW ENGINE DID NOT COME WITH A ECM. TRANSFERRED ECM FROM OLD ENGINE ONTO NEW ENGINE AND UPDATED ECM CALIBRATION FROM EF10090.25 TO EF10090.26. INSTALLED NEW SURGE TANK AND FILLED ENGINE WITH NEW ENGINE OIL AND ELC COOLANT. STEAM CLEANED ENGINE AND ROAD TESTED WITH NO LEAKS OR FAULTS LOGGED. REMOVED AND REPLACED FAN BELT DUE TO EXCESSIVE NOISE, PUT OLD IN CAB FOR CUSTOMER.

ESTIMATE: 670,000.00 29AUG22 08:52 SA: 7237
CONTACT: MERLE 707-484-5422 (707)484-5422

ESTIMATE: 1,500.00 11JUL22 14:02 SA: 7237
CONTACT:

CUSTOMER PAY CA ENVIRO FEE FOR REPAIR ORDER 478.00
LINSEY - 707.583.6192

At Peterson, your complete satisfaction is very important to us. Within the next 3 weeks you might be selected to participate in a short phone survey regarding your experience with us. A score of 8 or below means that we let you down and for that we are sorry. If we can better serve you, please tell us now!

I hereby authorize the repair work herein set forth to be done along with the necessary material and agree that you are not responsible for loss or damage to vehicle or articles left in vehicle in case of fire, theft or any other cause beyond your control or for any delays caused by unavailability of parts or delays in parts shipments by the supplier or transporter. I hereby grant you and/or your employees permission to operate the vehicle herein described on streets, highways or elsewhere for the purpose of testing and/or inspection. An express mechanic's lien is hereby acknowledged on above vehicle to secure the amount of repairs thereto. I HEREBY ACKNOWLEDGE RECEIPT OF A COPY HEREOF. CUSTOMER SIGNATURE	DESCRIPTION	TOTALS
	LABOR AMOUNT	\$ 14720.00
	PARTS AMOUNT	\$ 42907.78
	GAS, OIL, LUBE	\$ 0.00
	SUBLET AMOUNT	\$ 0.00
	MISC. CHARGES	\$ -2898.81
	TOTAL CHARGES	\$ 54728.97
	LESS INSURANCE	\$ 0.00
	SALES TAX	\$ 3688.08
	PLEASE PAY THIS AMOUNT	\$ 58417.05

REMIT TO: PETERSON TRUCKS, INC. P.O. BOX 101777 Pasadena, CA 91189-1777

Customer Copy

NEW ENGINE
OLD ECM

Engine Serial Number : 60845617
Customer Unit Number : 112
Work Order Name : RO 231648
ECM Serial Number : 4242772

Work Order Properties

INSITE 8.8.1.81 / Datapack 8.8.10081
Customer Name : REUSER
ECM Image Name : I-20220826-084515005
Company Name Cummins Inc.

Work Order Properties

☐ Work Order	
☐ Engine Information	
ECM Serial Number	4242772
Make	CMMNS
Model	6X1u13D1500000000
Serial Number	60845617
☐ Image-CM2350A [0]	
File Location	C:\Intelec\INSITE\WorkOrders\I-20220826-084515005
Image Name	I-20220826-084515005
Start Repair Date	26-Aug-2022 08:45:15 AM
System Type	Initial
☐ Summary Information	
Customer Contact	CLOVERDALE CA
Customer Name	REUSER
Last Modified Date	26-Aug-2022 08:45:15 AM
Service Site Location	SANTA ROSA TRUCK SHOP
Start Repair Date	26-Aug-2022 08:45:15 AM
System Type	ISX12 CM2350 X102/X103/X108/ISX15 CM2350 X101/X104/X109
Technician Name	
Work Order Number	RO 231648
☐ Vehicle Information	
Identification	1KKYD49X0GJ475204
Make	KENNWORTH
Model	T680H
Odometer	581769
Unit Number	112

Engine Serial Number : 60845617
Customer Unit Number : 112
Work Order Name : RO 231648
ECM Serial Number : 4242772

Work Order Properties

INSITE 8.8.1.81 / Datapack 8.8.10081
Customer Name : REUSER
ECM Image Name : I-20220826-084515005
Company Name Cummins Inc.

Technician's Note

Engine Serial Number : 60845617
Customer Unit Number : 112
Work Order Name : NA

Trip Information

INSTTE 8.8.1.81 / Datapack 8.8.10081
Company Name : Cummins Inc.
ECM Image Name : NA

Name	ECM Value	Units	
☐ ISX12 CM2350 X102/X103/X108/ISX15 CM2350			
☐ X101/X104/X109			
☐ CM2350A			
☐ All Trips (Cumulative)			
☐ Aftertreatment			
☐ Distance			
Cruise Control Distance	78612.9	mi	
ECM Distance	581817.5	mi	
Engine Distance	581759.5	mi	
Engine Brake Distance	45466.5	mi	
Gear Down Distance	152526.0	mi	
Maximum Accelerator Vehicle Speed Distance	35153.6	mi	
Predictive Cruise Control Distance	0.00	mi	
Service Brake Distance	7150.9	mi	
Top Gear Distance	316060.5	mi	
☐ Fuel Used			
☐ Multiple PTO			
☐ Other			
☐ Time			
Coast Time	000877:43:35	HH:MM:SS	
Cruise Control Time	001182:39:29	HH:MM:SS	
Drive Time	011139:39:51	HH:MM:SS	
ECM Time (Key On Time)	015224:21:21	HH:MM:SS	
Engine Brake Time	000952:54:43	HH:MM:SS	
Engine Run Time	014719:27:28	HH:MM:SS	
Full Load Operation Time	001582:38:44	HH:MM:SS	
Gear Down Time	002682:18:15	HH:MM:SS	
Idle Time	002795:49:16	HH:MM:SS	
Loaded PTO Drive Time	000000:00:00	HH:MM:SS	
Loaded PTO Stationary Time	000000:00:07	HH:MM:SS	

Engine Serial Number :60845617
Customer Unit Number :112
Work Order Name :NA

Trip Information

INSITE 8.8.1.81 / Datapack 8.8.10081
Company Name :Cummins Inc.
ECM Image Name :NA

Name	ECM Value	Units	
Maximum Accelerator Vehicle Speed Time	000486:17:02	HH:HH:MM:SS	
Predictive Cruise Control Time	000000:00:00	HH:HH:MM:SS	
PTO Device 1 Total Time	0000231:38	HH:HH:MM	
PTO Device 2 Total Time	0000004:54	HH:HH:MM	
PTO Device 3 Total Time	0000000:00	HH:HH:MM	
PTO Device 4 Total Time	0000000:00	HH:HH:MM	
PTO Device 5 Total Time	0000000:00	HH:HH:MM	
PTO Device 6 Total Time	0000000:00	HH:HH:MM	
PTO Device 7 Total Time	0000000:00	HH:HH:MM	
PTO Device 8 Total Time	0000000:00	HH:HH:MM	
PTO Drive Time	000000:13:56	HH:MM:SS	
Service Brake Time	000339:07:12	HH:MM:SS	
Smart Torque 2 Level 1 Economy Time	000000:00:00	HH:MM:SS	
Smart Torque 2 Level 2 Economy Time	000000:00:00	HH:MM:SS	
Top Gear Time	004807:00:05	HH:MM:SS	
Total PTO Time	000430:44:08	HH:MM:SS	
Trip Since Last Reset			
Trip Since Last Reset Drive (Vehicle Speed 0)			

Engine Serial Number : 60845617
Customer Unit Number : 112
Work Order Name : NA

Faults Information

INSITE 8.8.1.81 / Datapack 8.8.10081
Company Name : Cummins Inc.
ECM Image Name : NA
Customer Name : REUSER

Fault Code	Status	Count	Lamp	Description	PID	SID	J1587 FMI	J1939 FMI	SPN
	Fault Parameters	First	Last	Units					
No fault codes detected in the ECM.									

Engine Serial Number : 60845617
Customer Unit Number : 112
Work Order Name : NA

Features and Parameters

INSITE 8.8.1.81 / Datapack 8.8.10081
Company Name : Cummins Inc.
ECM Image Name : NA
Customer Name : REUSER

Features and Parameters		
ISX12 CM2350 X102/X103/X108/ISX15 CM2350 X101/X104/X109		
CM2350A		
System ID and Dataplate		
Calibration Information		
Calibration Software Phase	9280F55	
Calibration Time/Date Stamp	050719120655	
DO Option	1983	
ECM Code	EF10090.26	
Other Options		
SC Option	12271	
Customer Information		
Customer Location	CLOVERDALE CA	
Customer Name	REUSER	
Customer Unit Number	112	
ECM Information		
ECM Name	CM2350A	
ECM Part Number	5317106	
ECM Serial Number	4242772	
Engine Information		
Engine Build Date	080122	
Engine Make	CMMMS	
Engine Model	6X1u13D1500000000	
Engine Serial Number	60845617	
System Information		
Advertised Power at RPM	451 hp	
Advertised Power RPM	1800 RPM	
Control Parts List	4583	
Fuel Code	FCOP961	
Governed Speed	1800 RPM	
Peak Torque at RPM	1750 ft*lb	
Peak Torque RPM	1000 RPM	
Vehicle/OEM Information		
OEM Name	KENWORTH	
OEM Vehicle or Equipment Model	T680H	

Engine Serial Number : 60845617
 Customer Unit Number : 112
 Work Order Name : NA

Features and Parameters

INSITE 8.8.1.81 / Datapack 8.8.10081
 Company Name : Cummins Inc.
 ECM Image Name : NA
 Customer Name : REUSER

Features and Parameters		ECM Value	Units	Original Value
Vehicle Identification Number or Equipment Serial Number		1XKYD49X0GJ475204		
Vehicle or Equipment Year		*****		
Accelerator Interlock		Disable		
Accelerator Options		Enable		
Accelerator Type		Dual Pulse Width Modulation		
Accelerator Brake Override		Disable		
Adjustable Low Idle Speed		Enable		
Low Idle Speed		700	RPM	
Low Idle Speed Additional Settings		Enable		
Step Size		25	RPM	
Save Idle Speed on Power Down		Disable		
Low Idle Speed Adjustment Switch		Enable		
Aftertreatment				
Diesel Particulate Filter		Disable		
Active Regeneration in PTO and Remote Modes		Disable		
Aftertreatment Diesel Particulate Filter Stationary Regeneration with Parking Brake		Disable		
Aftertreatment Diesel Particulate Filter Temperature Stabilization		Disable		
Automotive Mobile Regeneration		Enable		
Minimum Vehicle Speed		5	mph	
Diesel Particulate Filter Lamp		Installed		
Diesel Particulate Filter Regeneration Permit Switch		Enable		
Diesel Particulate Filter Regeneration Start Switch		Enable		
High Exhaust System Temperature Lamp Configuration		Disable		
Active Due to Regeneration		5	mph	
Active Maximum Speed		842	°F	
Active Temperature		824	°F	
Inactive Temperature				
SCR Aftertreatment		Enable		
Aftertreatment Diesel Exhaust Fluid Level System Configuration		13.0	percent	
Aftertreatment Diesel Exhaust Fluid Low Level		8.0	percent	
Aftertreatment Diesel Exhaust Fluid Warning Level		4.0	percent	
Aftertreatment Diesel Exhaust Fluid Inducement Level				

Engine Serial Number : 60845617
Customer Unit Number : 112
Work Order Name : NA

Features and Parameters

INSITE 8.8.1.81 / Datapack 8.8.10081
Company Name : Cummins Inc.
ECM Image Name : NA
Customer Name : REUSER

Features and Parameters		ECM Value	Units	Original Value
Diesel Exhaust Fluid Heater		Enable		
Diesel Exhaust Fluid Dosing Unit Heater Relay		Enable		
Diesel Exhaust Fluid Heater Configuration		Enable		
Diesel Exhaust Fluid System Heating Type		Electric with Heated Connectors		
Diesel Exhaust Fluid Line Heater 1 Relay		Enable		
Diesel Exhaust Fluid Tank Heater 1 Relay		Enable		
Air Shut Off Valve		Disable		
Alternator Failure Warning		Disable		
Battery Power Required Lamp		Disable		
Clutch Pedal Position Switch		Installed		
Crankcase Ventilation Heater		Enable		
Cruise Control		Enable		
Cruise Control Type		Traditional		
Cruise Control Lower Droop		0.0	mph	
Cruise Control Upper Droop		0.0	mph	
Maximum Cruise Control Speed		69	mph	
Adaptive Cruise		Disable		
Cruise Control Auto-Resume		Enable		
Cruise Control On Off Switch		Enable		
Cruise Control Pause Switch		Disable		
Cruise Control Save Set Speed		Disable		
Cruise Control and Engine Brake Interaction		Enable		
Start Maximum Engine Braking		2.0	mph	
Start Minimum Engine Braking		2.0	mph	
Cruise Control Switch Setup				
Switch Setup				
Driver Reward		Self/Accelerate (Resume/Coast)		
Electric Fuel Lift Pump		Disable		
Electrical System Voltage		Enable		
Electrical System Voltage		12V		
Engine Brake Control		Enable		
Delay Time		0.0	s	

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Features and Parameters

INSITE 8.8.1.81 / Datapack 8.8.10081
Company Name : Cummins Inc.
ECM Image Name : NA
Customer Name : REUSER

Features and Parameters		ECM Value	Units	Original Value
Engine Brake Type		Engine Compression Brake		
Minimum Vehicle Speed		0.0	mph	
Clutch Pedal Activation		Enable		
Engine Brake Lamp		Disable		
Service Brake Activation		Disable		
Engine Coolant Level Sensor		Installed		
Engine Oil Pressure Sensor		Enable		
Engine Protection		Enable		
Engine Coolant Level		Enable		
Time Based Shutdown		Disable		
Torque Derate		Disable		
Limited Restart		Enable		
Shutdown		Disable		
Shutdown Manual Override		Disable		
Enhanced Auxiliary Shutdown Switch		Disable		
Ether Injection		Disable		
Fan Control		Enable		
Fan Control Logic		0 Volt On		
Air Conditioning Pressure Switch Input		Disable		
Fan Control Switch		Disable		
Fan Minimum Run Time		Enable		
Minimum Run Time		00:00:30	HH:MM:SS	
Fan on with Engine Braking		Disable		
Fan on With Remote Throttle		Disable		
Fan Type		On/Off		
Fuel Level Sensor 2		Disable		
Gear Down Protection		Disable		
Governor Type		Automotive		
Governor Type		Automotive		
Engine Speed Acceleration Management		Disable		
Governor Type Switch		Disable		
High Soot Load Shutdown		Enable		
Idle Shutdown		Disable		

Engine Serial Number : 60845617
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Features and Parameters

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Customer Name : REUSER

Features and Parameters		ECM Value	Units	Original Value
J1939 Controls		Enable		
J1939 Service Reset		Enable		
J1939 Stop Broadcast Allowed		Enable		
J1939 Trip Reset		Enable		
Load Based Speed Control		Enable		
RPM Breakpoint		1650 RPM		
Maintenance Monitor		Disable		
OEM Ambient Air Temperature Sensor		Enable		
Parking Brake Switch		Enable		
Powertrain Protection		Disable		
Powertrain Protection Engine Speed Limit		Disable		
PTO		Enable		
PTO Speed 1 Device				
PTO Speed 2 Device				
PTO Speed 3 Device				
PTO Speed 4 Device				
PTO Speed 5 Device				
PTO Speed 6 Device				
PTO Speed 7 Device				
PTO Speed 8 Device				
Additional Switch Speed		800 RPM		
Maximum Engine Load		1844 ft*lb		
Maximum Speed		1400 RPM		
Maximum Vehicle Speed		6 mph		
Minimum Speed		825 RPM		
Ramp Rate		250 rpm/s		
Resume Switch Speed		800 RPM		
Set Switch Speed		800 RPM		
Accelerator Pedal or Lever Override		Disable		
Alternate Operation		Disable		
Cab PTO		Disable		
Clutch Override		Enable		
Ignore Vehicle Speed Source in PTO		Enable		
Parking Brake Interlock Type		Disable		
		None		

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Features and Parameters

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 ECM Image Name : NA
 Customer Name : REUSER

Features and Parameters	ECM Value	Units	Original Value
PTO Pump Mode	Disable		
Remote PTO	Disable		
Remote PTO Service Brake and Clutch Override	Disable		
Remote Station PTO	Disable		
Service Brake Override	Enable		
Transmission Driven PTO	Disable		
Transmission Neutral Interlock	Disable		
Zero Vehicle Speed Source Limit	Disable		
Remote Accelerator Pedal or Lever	Disable		
Road Speed Governor	Enable		
Maximum Accelerator Vehicle Speed	72 mph		
Maximum Vehicle Speed	120 mph		
Road Speed Governor Lower Droop	0 mph		
Road Speed Governor Upper Droop	0 mph		
Greenhouse Gas Vehicle Speed Limiter	Disable		
Reserve Speed	Disable		
Switched Maximum Vehicle Speed	Disable		
SAE J1939 Multiplexing	Disable		
Accelerator Interlock Switch	Disable		
Accelerator Pedal Or Lever Position	Disable		
Aftertreatment Diesel Exhaust Fluid Tank Level Sensor	Disable		
Aftertreatment Diesel Exhaust Fluid Tank Temperature Sensor	Disable		
Aftertreatment Regeneration Permit Switch	Enable		
Source Address	49 - Cab Controller - Primary		
Aftertreatment Regeneration Start Switch	Enable		
Source Address	49 - Cab Controller - Primary		
Air Conditioning Pressure Switch	Disable		
Auxiliary Shutdown Switch	Disable		
Clutch Pedal Position Switch	Enable		
Source Address	49 - Cab Controller - Primary		
Cruise Control On/Off Switch	Enable		

Engine Serial Number : 60845617
 Customer Unit Number : 112
 Work Order Name : NA

Features and Parameters

INSITE 8.8.1.81 / Datapack 8.8.10081
 Company Name : Cummins Inc.
 ECM Image Name : NA
 Customer Name : REUSER

Features and Parameters		ECM Value	Units	Original Value
 Source Address		49 - Cab Controller - Primary		
 Cruise Control Pause Switch		Disable		
 Cruise Control Set / Resume Switch		Enable		
 Source Address		49 - Cab Controller - Primary		
 Diagnostic Test Mode Switch		Disable		
 Engine Brake Switch Level		Enable		
 Source Address		49 - Cab Controller - Primary		
 Engine Protection Shutdown Manual Override		Disable		
 Fan Control Switch		Enable		
 Source Address		49 - Cab Controller - Primary		
 Fan Control Switch 2		Disable		
 Fuel Level Sensor		Enable		
 Source Address		49 - Cab Controller - Primary		
 Fuel Level Sensor 2		Disable		
 Idle Increment/ Idle Decrement Switch		Disable		
 Idle Validation Switch		Disable		
 Parking Brake		Enable		
 Source Address		49 - Cab Controller - Primary		
 PTO On/Off Switch		Enable		
 Source Address		49 - Cab Controller - Primary		
 PTO Set / Resume Switch		Enable		
 Source Address		49 - Cab Controller - Primary		
 Rear Axle Ratio Switch		Disable		
 Remote Accelerator Pedal or Lever		Disable		
 Remote Accelerator Pedal or Lever Switch		Disable		

Engine Serial Number : 60845617
 Customer Unit Number : 112
 Work Order Name : NA

Features and Parameters

INSITE 8.8.1.81 / Datapack 8.8.10081
 Company Name : Cummins Inc.
 ECM Image Name : NA
 Customer Name : REUSER

Features and Parameters		ECM Value	Units	Original Value
Remake PTO Switch		Disable		
Service Brake Switch		Enable		
Source Address	49 - Cab Controller - Primary			
Torque Derate Switch		Disable		
Service Brake Switch		Enable		
SmartAccel		Disable		
Starter Lockout		Disable		
Sudden Deceleration Event Settings		Enable		
Sudden Deceleration Rate Threshold		7.0	mph/s	
Switched Maximum Engine Operating Speed		Disable		
Tire Wear Adjustment		Disable		
Transmission Setup		Enable		
Gear Down Transmission Ratio		0.86		
Top Gear Transmission Ratio		0.73		
Transmission Type		Manual		
Trip Information		Enable		
ECM Distance Offset		0.0	mi	
Engine Distance Offset		0.0	mi	
Vehicle Overspeed 1		68.0	mph	
Vehicle Overspeed 2		72.1	mph	
ECM Time Offset		000000	HH-HH-HH	
Engine Time Offset		000000	HH-HH-HH	
Variable Rate Vehicle Acceleration Management		Disable		
Vehicle Speed Sensor Anti-Tampering		Enable		
Vehicle Speed Sensor Anti-Tampering Sensitivity		Enable		
Tampering Sensitivity Level		High		
Vehicle Speed Source		Enable		
Maximum Engine Speed without Vehicle Speed Source		1600	RPM	
Number of Transmission Tailshaft Gear Teeth		16		
Rear Axle Ratio		3.42		
Tire Size		492	revs/mi	
Vehicle Speed Sensor Type		Magnetic		
Two Speed Rear Axle		Disable		

Engine Serial Number : 60845617
Customer Unit Number : 112
Work Order Name : NA

Features and Parameters

INSITE 8.8.1.81 / Datapack 8.8.10081
Company Name : Cummins Inc.
ECM Image Name : NA
Customer Name : REUSER

Features and Parameters		
 Water In Fuel Sensor		
ECM Value	Units	Original Value
Installed		



Cummins ReCon[®] Diesel Warranty

ISX/QSX Engine
Warranty Certificate

	
Diesel ReCon Company A Division Of Cummins Engine Company, Inc.	
	PART NUMBER (P) DR7046-RX
	SERIAL NUMBER (S) 60845617
MODEL ISX	WAREHOUSE MEM

Coverage

Products Warranted

This Warranty applies to ISX/QSX Engines originally manufactured or distributed by Cummins Inc. ("Cummins") that are remanufactured by Cummins ReCon® and marketed for use worldwide under the trademark "Cummins ReCon®".

Base Engine Warranty

The Base Engine Warranty covers any failures of a ReCon® Engine which result, under normal use and service, from defects in workmanship or material. Automotive Coverage extends for two years or 200,000 miles (321,689 km). Injectors are covered for two years or 125,000 miles (201,168 km) whichever occurs first. Industrial Coverage extends for two years or 2,000 hours, whichever occurs first, from the date of delivery of the ReCon® Engine to the first retail purchaser. If the 2,000 hour limit is exceeded during the first year, Coverage continues until the end of the first year. Travel in industrial applications is covered during the Warranty period.

This Warranty applies only to ISX/QSX Engines delivered after July 1, 2006.

Extended Major Components Warranty

The Extended Major Components Warranty covers failures of the Engine cylinder block, crankshaft, camshafts and connecting rods (bushing and bearing failures are not included) which result under normal use and service, from defects in workmanship or material in these parts. This Coverage begins with the expiration of the Base Engine Warranty and ends after three years or 300,000 miles (482,805 km) or 10,000 hours of operation, whichever occurs first, from the date of delivery to the first retail purchaser.

These Warranties are made to all Owners in the chain of distribution and Coverage continues to all subsequent Owners until the end of the periods of Coverage.

Cummins ReCon® Responsibilities

During the Base Engine Warranty

Cummins ReCon® will pay for all parts and labor needed to repair the Engine as a result of a Warrantable Failure. All labor costs will be paid in accordance with Cummins published Standard Repair Time guidelines. Only parts and assemblies remanufactured by Cummins ReCon® or new genuine Cummins parts and assemblies will be used in making the repair.

During the ReCon® Engine Warranty, for industrial applications, travel is covered up to six hours when a vehicle is disabled as a result of a Warrantable Failure.

Cummins ReCon® will cover reasonable maintenance items (oil, filters, antifreeze) damaged as a result of a Warrantable Failure.

Cummins ReCon® will pay reasonable labor costs for Engine removal and reinstallation in accordance with Cummins published Standard Repair Time guidelines when necessary to make the Warranty repair.

During the Extended Major Components Warranty

Cummins ReCon® will pay for the defective Engine cylinder block, crankshaft, camshaft or connecting rod.

Owner Responsibilities

During the Base Engine Warranty

Owner is responsible for the cost of maintenance items.

Owner is responsible for the costs of all labor required for removal, repair and reinstallation of the failed component or Engine.

Owner is responsible for the costs of all parts required for the repair except for the defective cylinder block, crankshaft, connecting rod or camshaft.

Owner is responsible for the cost of lubricating oil, antifreeze, filter elements, belts, hoses and other maintenance items replaced during the repair.

Additional Responsibilities During Both Warranties

Owner is responsible for the operation and maintenance of the ReCon® Engine as specified in Cummins Operation and Maintenance Manuals.

Prior to the expiration of the applicable Warranty, Owner must give notice of any Warrantable Failure to a Cummins distributor or authorized dealer or other repair location approved by Cummins and deliver the Engine to such facility for repair. Locations are listed in Cummins United States and Canada Sales and Service Directory.

Owner is responsible for communication expenses, meals, towing, lodging, travel and incidental costs incurred by Owner or employees of Owner as a result of a Warrantable Failure.

Owner is responsible for "downtime" expenses, cargo damage and all business costs and losses resulting from a Warrantable Failure. **Cummins ReCon® is not responsible for incidental or consequential damages.**

Limitations

Warranty Limitations

Cummins ReCon® is not responsible for failures resulting from Owner or Operator abuse or neglect, such as: operation without adequate coolant, fuel or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or air intake systems; improper storage, starting, warm-up, run-in or shut-down practices.

Starters, generators, alternators, flywheels, flywheel housing,

ring gears, fan hubs and other similar items are not included as components of the ReCon® Engine or remanufactured by Cummins ReCon®. Therefore, they are not covered by this Warranty.

Before a claim for excessive oil consumption will be considered, Owner must submit adequate documentation to show that consumption exceeds Cummins published standards and that lubricating oils that meet Cummins specifications have been used.

Cummins ReCon® is not responsible for failures resulting from improper repair or the use of parts not approved by Cummins ReCon® or Cummins.

These Warranties are the sole Warranties of Cummins ReCon®. There are no other Warranties, express or implied, or of merchantability or fitness for a particular purpose.



Cummins Inc.
Box 3005
Columbus, IN 47202-3005
U.S.A.

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