

Repair Order Detail - Customer Copy

RO Number: [REDACTED]

RO Status: CLOSED

Customer: [REDACTED]

Phone(s): Contact: [REDACTED]

Main: [REDACTED]

Cell: [REDACTED]

Vehicle: [REDACTED]

2013 CXU613

Mileage: 492,061

Payment type: CHG

Waiter: No

Service advisor: 210

Promised time: 05:00 PM

Estimate: 0.00

Tag number: [REDACTED]

Promised date: 12/15/2015

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|   |                         |    |                         |                                                                                            |  |  |  |  |      |
|---|-------------------------|----|-------------------------|--------------------------------------------------------------------------------------------|--|--|--|--|------|
| A | CSA Check 22 Inspection |    |                         |                                                                                            |  |  |  |  |      |
|   | 00-099-0002             | CP | CSA Check 22 Inspection | INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552(B)(6) |  |  |  |  | 0.00 |

|      |             |      |            |        |        |               |  |  |        |
|------|-------------|------|------------|--------|--------|---------------|--|--|--------|
|      | Tech(s): 49 |      |            |        |        |               |  |  |        |
|      | MISC        | CP   | DEDUCTIBLE |        |        |               |  |  | 500.00 |
| Pts: | 0.00        | Lbr: | 0.00       | Other: | 500.00 | Total Line A: |  |  | 500.00 |

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B Recall Campaign: SC0375 ELECTRICAL POWER DISTRIBUTION MODULE (EPDM)

	3750-25-09-01	WM	SC0375 EPDM WITH REPLACEMENT						N/C
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	Tech(s): 49								
	1700-16-01-01	WM	Take Charge						N/C
	Tech(s): 49								
	85142790		1 PANEL						N/C
	82732384		1 GASKET						N/C
	25195026		2 RELAY						N/C
	25110754		3 RELAY						N/C
Pts:	0.00	Lbr:	0.00	Other:	0.00	Total Line B:			0.00
Story:	492061	#49 done 11-19 performed sc0375 epdm update.							

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C Recall Campaign: SC0379 ELECTRONIC FLASHER

|  |               |    |        |  |  |  |  |  |     |
|--|---------------|----|--------|--|--|--|--|--|-----|
|  | 3648-03-09-01 | WM | sc0379 |  |  |  |  |  | N/C |
|--|---------------|----|--------|--|--|--|--|--|-----|

|        |             |                                                 |           |        |      |               |  |  |      |
|--------|-------------|-------------------------------------------------|-----------|--------|------|---------------|--|--|------|
|        | Tech(s): 49 |                                                 |           |        |      |               |  |  |      |
|        | 22136513    |                                                 | 1 FLASHER |        |      |               |  |  | N/C  |
| Pts:   | 0.00        | Lbr:                                            | 0.00      | Other: | 0.00 | Total Line C: |  |  | 0.00 |
| Story: | 492061      | #49 DONE 11-17 PERFORMED SC0379 FLASHER RECALL, |           |        |      |               |  |  |      |

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D UNIT WANTS TO PUSH UNIT THRU STOP SIGNS.

	4323-03-99-99	CP	DIAG AND REPLACE CLUTCH VALVE						288.00
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	Tech(s): 49, 58								
	22327069		1 SOLENOID VALVE						279.11
	07447		1 SCOTCH BRIGHT MAROON 6X9						1.16
	20395795		3 CABLE TIE						2.07
Pts:	282.34	Lbr:	288.00	Other:	0.00	Total Line D:			570.34

Story: 492061 #49 11-17 Drive unit around shop, was not able to get it to push forward after a complete stop. check brake switch, it functions, check codes, multiple inactive codes, psid 27 fmi 8 and 14, follow diagnostics fmi 14, performed the check clutch leak tests, and clutch performance tests for engagements and disengagements for fast performances, all were in spec, no fault found. Next follow code fmi 8 of the same psid 27. Check gasket for plunger release clutch

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2013 CXU613

Mileage: 492,061

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valve, it was intacted. Check part number, it matched the specified number in v-cads. guided diagnostics failed the clutch valve assembly. ordered one. #49 11-19 Drain air system, remove clutch valve, clean sealing surface, install new clutch valve, plug in on both ends, air up truck, check for leaks, no leaks, hook to ptt, perform engagement tests, all passed, clear out codes, road test. Checking to see if pushing through stop signs/lights, truck came to stop with ease, no hesitation, the grade gripper functioned as is should on hill starts, drive and stop multiple times in parking lot with trans up to temp, it stops every time, no sticking of clutch, recheck codes in shop, no codes. Took a longer road test, and checked again, ok.  
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E CHECK ENGINE LIGHT ON, CHECK CODES AND ADVISE

99-000-0001	CP	CHECK ENGINE LIGHT ON, CHECK CODES AND ADVISE	36.00
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Tech(s): 49
MBL105420

7	MOBIL DELVAC 1300 SUPER 1	22.82
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Pts: 22.82 Lbr: 36.00 Other: 0.00 Total Line E: 58.82

Story: 492061 #49 11-17 CHECK CODES, IT HAS AN ACTIVE CODE FOR OIL LEVEL, INSPECT SENSOR, ALREADY HAS SOLID PINS, AND JUMPER INSTALLED, NEXT CHECK OIL LEVEL IT WAS LOW, ADVISE SERVICE, GET OK, TOP OFF OIL LEVEL TO FULL, IT WAS ON THE MINIMUM OF THE DIP STICK, FOLLOW THROUGH VERIFICATION, FAULT COMPLETED AND WENT INACTIVE, DONE
~~~~~

F SECURE LOOSE BATTERY CABLES AT TRANS

|             |    |                                      |       |
|-------------|----|--------------------------------------|-------|
| 99-000-0001 | CP | SECURE LOOSE BATTERY CABLES AT TRANS | 72.00 |
|-------------|----|--------------------------------------|-------|

Tech(s): 49  
21658909  
994441

|   |                 |      |
|---|-----------------|------|
| 2 | ATTACHING CLAMP | 3.38 |
| 2 | FLANGE SCREW    | 2.00 |

Pts: 5.38 Lbr: 72.00 Other: 0.00 Total Line F: 77.38

Story: 492061 #49 done 11-19 Secure all loose battery cables. Replace two missing cable clamps and bend the brackets back straight, done.  
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G 12/03/15 TRANS WANTS TO PUSH THROUGH INTERSECTION, CHECK ANMD ADVISE REPAIR NEEDED

5633-03-99-99	CP	DIAG AND REPLACE BRAKE PRESSURE SWITCH	309.60
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Tech(s): 58

20489118

1 PRESSURE SWITCH

27.72

Pts: 27.72 Lbr: 309.60 Other: 0.00 Total Line G: 337.32

Story: 492061 Master Tech Darrin Carr #m667694 diagnosed with  
the help of e-serv, case # [REDACTED]. 12/4/15 Performed

software update on mid 128, mid 144, mid 233, and mid 130.

Calibrated trans ecu and clutch as a new clutch. Reset

learned data. Road test and still lurches thru stop sign.

Sent an e-serve [REDACTED] of problem to tech support.

58 12/7/15 Receive answer back on E-serve, need to monitor

brake service switch pressure manually and with ptt. Found

the pressure switch would not stay constant during brake

application and the service brake indication light on ptt

would go off, causing the transmission to not disengage the

clutch causing it to lurch. Replaced switch with part number

specified in the e-serve. Road test, trans and clutch

functioned normal no more lurching. done  
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H REPLACE INLET NOx SENSOR

2589-03-02-10	WM	SENSOR, NITROGEN OXIDE (NOx)-Replace (one)	N/C
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Tech(s): 58

1700-20-03-01	WM	Directed Diagnostics	N/C
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Tech(s): 58

2589-11-02-04	WM	1700-11-03-01	N/C
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Tech(s): 58

2589-11-02-04	WM	Crystal Sublimation)	N/C
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Tech(s): 58

2589-22-03-03	WM	Program Aftertreatment Control Module (ACM)	N/C
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Tech(s): 58

2840-22-03-01	WM	Program Engine Electronic Control Unit (EECU)	N/C
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Tech(s): 58

1700-11-03-01	WM	Stationary Regen	N/C
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Tech(s): 58

21636091		1 SENSOR	N/C
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MISC	WM	DEDUCTIBLE	N/C
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Pts: 0.00 Lbr: 0.00 Other: 0.00 Total Line H: 0.00

Story: 492061 58 12/4/15 Check the complaint the unit has active

code for inlet NOx sensor fmi 13. Diagnostics reads to

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replace the sensor. Replace the inlet NOx sensor according to procedure. Updated mid 128, and mid 233 software and reset learned data. Perform a regen and crystal sublimation and code went inactive. Cleared codes. Test drive ok.  
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I CHECK AND ADVISE CODES AFTER ROAD TEST

3731-03-02-01	WM	Engine Harness, Replacement	N/C
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Tech(s): 34

1700-20-03-01	WM	Directed Diagnostics	N/C
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Tech(s): 34

20804638

1 SEALING STRIP

N/C

Y217068OC

1 14" STD BLACK TIES

N/C

983472

8 CABLE TIE

N/C

21780371

1 SEALING RING

N/C

85124530

1 KIT

N/C

967343

2 O-RING

N/C

1079283

1 COVER

N/C

21555870

1 WIRING HARNESS

N/C

980881

5 CABLE TIE

N/C

20395795

2 CABLE TIE

N/C

Pts:	0.00	Lbr:	0.00	Other:	0.00	Total Line I:	0.00
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Story: 492061 34 12/7/15 Check and advise codes after road test.

Printed code has active code of spn 2629 fmi 5. Went through diagnostic steps and ohmed out sensor, it is within spec.

Checked ecu and ohm between signal and ground wires on the turbo outlet temp sensor. Checked for a short between the signal wire and all other pins on connector eb of the ecu and is open which is correct. Checked for a short on the ground wire pin 18 connector eb and i do have a short between pin 18 and 11,16,17,19,28, and 48. There is some oil in the connector cleaned out connector and retest, have same results, mostly 19.8k ohms, it should be open. Referred to wiring diagrams what the other wires go to and unplugged them one at a time in case one of the sensors is back feeding and they were not. Wiggle harness and that made no difference. Have a short somewhere in the engine harness, will need new harness. Made parts list and advised. Removed engine harness, order new one. 12/9/15 Installed new harness and secured. Installed valve cover, venturi pipe, cab floor, and doghouse. Run and checked for leaks, no leaks or codes. cleared inactive codes. test drive ok.

Repair Order Detail - Customer Copy

Customer Pay	
Labor	705.60
Parts	338.26
Lube	0.00
Sublet	0.00
Miscellaneous/Shop Charge	582.49
Deductible	0.00
Total Charges	1,626.35
Less Insurance/Adjustment	0.00
Sales Tax	113.85
Total	1,740.20