



**DOBBS PETERBILT**

15330 Smokey Point Blvd.  
Marysville, WA 98271

TF: (888) 755-7383



1846

**Bill To:** Hos Brothers Construction  
P. O. BOX 1788  
PO Box 1788  
WOODINVILLE OUTSIDE, WA 98072  
Shop: 425-236-3961

**Ship To:** Hos Brothers Construction  
P. O. BOX 1788  
WOODINVILLE OUTSIDE, WA 98072

Customer P/O: need kblonk Completion Date:

Unit Number: 1846 Model Year: 2016 Make/Model: Peterbilt 367

Type: Truck VIN: 1NPTX4EX8GD319244 Meter: 328589 Miles

In-Service Date: 05/28/2015 ECM Reading: 10624

Unit Components: Manufacturer: Cummins Model: ISX15 Serial Number: 79812764

**Task: 1** General General Repair Department: Service 100028

**Complaint:** Complete Campaign 20PBC

**Correction:** Tried to update ESA software for campaign 20PBC. ECEU failed to update. There is a module error. Tried re-calibrating with only

the same result. Need to vs issue.

Repair made on task 4. ECEU successfully updated from p30-1031-117 to P30-1031-123

| Supp. Part              | Description / Ref Number | U/M | Quantity | Price  | Extended Price |
|-------------------------|--------------------------|-----|----------|--------|----------------|
| <b>Task 1 Subtotals</b> |                          |     |          |        |                |
|                         | Parts:                   |     |          | \$0.00 |                |
|                         | Labor:                   |     |          | \$0.00 |                |
|                         | Task 1 Totals:           |     |          | \$0.00 |                |

**Task: 2** 99V Dobbs Courtesy Inspection Department: Service

**Complaint:** Perform Dobbs Courtesy Inspection

**Correction:** Inspection completed.

| Supp. Part              | Description / Ref Number | U/M | Quantity | Price  | Extended Price |
|-------------------------|--------------------------|-----|----------|--------|----------------|
| <b>Task 2 Subtotals</b> |                          |     |          |        |                |
|                         | Parts:                   |     |          | \$0.00 |                |
|                         | Labor:                   |     |          | \$0.00 |                |
|                         | Task 2 Totals:           |     |          | \$0.00 |                |

**Task: 3** 521 Engine Assembly - Miscellaneous Repair Department: Service

**Complaint:** Customer states there is an internal coolant loss, 1-1.5 gallons per day, some signs of coolant in oil during oil samples. Both the oil

cooler and EGR cooler are brand new. Inspect and advise.

**Cause:** Coolant leaking past cylinder #5.

\*\*\* Customer Review \*\*\*  
 Date / Time: 3/17/2023 10:10:05AM  
 Repair Order: 265271  
 Customer: 413689  
 Branch: Mary  
 Invoice Total: \$50,466.76  
 \*\*\*Open Account - Charge\*\*\*  
 Page 1 of 9

Correction:

Verify coolant level low, found coolant in oil. Dipstick was milky. Drain oil, drop oil pan. Remove oil pickup, stiffener plate. Reinstall cooling system. Coolant is leaking past #5 cylinder liner. Cylinder head will need to be removed, advised customer. Drain coolant, and gear cover. Found coolant contamination all throughout the gear set. Remove valve cover, injector harness, rocker assembly, cam idler gear, tone wheel and gear. Cam, cam retainer plates. Pull cyl head (many bolts seized). Clean eng block deck. Intake & exhaust valve facing is contaminated with burnt coolant. Coolant in the camshaft bearings. Check liner protrusion on all cylinders. #6 cylinder out of spec. Recommend cutting block. Remove #5 piston cooling nozzle, #5 con rod cap, push piston out from block. Pull out cyl liner. Clean, found o-ring broken causing leak into engine oil. Clean mid stop area. Signs of fretting along the mid stop. Liners are 150MM liners with anti-polishing rings. Conn rods are fractured split. Found fuel dosing shut off valve pressure sensor broke off. Crankcase molded tubes torn, crank case breather element contaminated with coolant, breather under valve cover contaminated with coolant, rubber grommet coming out of valve cover leaking oil. Recommendation pulling DOC/DPF. Remove piston cooling nozzles, piston assemblies and cyl liners, main caps 2-6 with upper and lower bearings. Remove all coolant contamination inside of block and gear housing. Clean all liner mid stops, o-ring lands in block, oil rite ports. Remove gear housing, fuel pump idler, lower idler, scissor gear, air comp, fuel lines to HF fuel pump and fuel gear pump, fuel gear pump, gear housing. Front crank shaft seal sleeve is seized to crankshaft. Clean crank pulley, gear housing gasket surface. Remove DOC/DPF. Sublet crankshaft main journals. Install #2 upper main bearings. R&R all upper & lower main cap bearings. Clean main cap journals on crankshaft. Install all upper bearings, lower bearings. Verify crankshaft free rotation and end play, in spec at .26mm. No binding throughout revolutions. Broke down all piston/con rod assemblies. Clean, inspect con rods, no damage. Replace pistons, piston rings, wrist pins, retaining rings on all six piston assemblies. Install new upper & lower con rod bearings. Fully install all piston assemblies, new piston cooling nozzles. Replace mounting gaskets and thermostat. Install exh manifold with new sealing gaskets, spacers bolts. Install air intake manifold. Install EGR mass air flow assembly bracket, fuel rail bracket and fuel rail. Cap and tape all openings, paint cyl head. Clean eng block deck. Install new cyl head gasket and head onto engine. Torque cyl head to spec. Install aftertreatment fuel injector line, heat core manifold, ERG mass air flow assembly, and turbo. Connect coolant, oil lines to turbo. Replace all sealing gaskets, sealing washers and hardware. Install new gear housing gasket, fuel gear pump gasket. Replace all bolts in gear housing. Clean camshaft and gears. Pre-lube camshaft bearing journals. Lube camshaft, install. Install 6 deg timing wedge. Found both fuel and camshaft idler gears beyond re-use guidelines. Install all gears, replace bolts, torque to spec. Install camshaft idler retainer plates. Replace sealing o rings. Install camshaft adjuster shaft and gear. Time fuel pump. Install new fuel pump idler shaft & gear. Pre-lube gear bushing, shaft and set. Install new lower gear cover, HF fuel pump bolts, remove pump timing tool. Install fuel pump gear. Install air comp, clean camshaft nose. Apply Loctite 609. Press on cam gear and tone wheel. Install .004" feeler gauges to set back lash. Made final torque specs to adjustable camshaft gear. Remove gauges. Load scissor gear. remove all base timing tools. Pre-lube all gearing. Made full rotations for verification and to oil gear sets. Install new upper gear cover seal, upper gear cover. Install air comp. Connect all coolant/oil lines. Connect all gear pump fuel pump fuel lines. Replace sealing washers. connect HF fuel pump supply line to rail. assemble clean DOC and new DPF. Align, install new connection gaskets and v-band clamps, install into truck. Install sensor module and sensors back into DPF/DOC. Connect DOC inlet. Replace gasket and clamp. Connect turbo outlet connection. Install crankcase breather bracket and filter assembly. Reinstall accessory bracket to gear housing, alternator and A/C pump. Prime gear housing. Clean oil pan, bottom of block, pick up tube, oil pump, and valve cover. Install stiffener plate. Torque oil pick up tube. Flush oil pump w/fresh oil to remove any leftover coolant stuck in pump. Install oil pump, verify back lash, lash was out of spec. Remove oil pump, change out shims, reinstall. Oil pump gear lash is in spec of .32mm. Apply RTV to housing seals. Install oil pan. Paint gear housing. Install vibration damper, forward rocker assemblies, tighten to set assemblies. Turn engine 180 to seal rear rocker assemblies. Set overhead adjustment to specs. pre-lube rocker arm assemblies. Clean valve cover sealing surface. Install valve cover with new gasket. Install crankcase breather tubes. Replace clamps. Ran OEM harness back to accessory bracket. Connect a/c comp, alt electrical connections. Install fan hub, belt tensioner. Replace both fan and accessories belts. Repair air line for fan hub supply. Install fan shroud, fan blade. Position cooling pack and install back into truck tank. Re-connect all lines and coolant level sensor. Attach CAC piping. Connect turbo actuator to eng harness. Set actuator pinion and calibrate. attach coolant lines to VGT. Replace all sealing washers. Secure eng harness. Replace oil and fuel filters. Fill eng with oil. Pull vacuum on cooling system and fill with mix of water and coolant flush. Connect EST. install latest ECM calibration

Customer P/O: need kblonk

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\*\*\* Customer Review \*\*\*  
Date / Time: 3/17/2023 10:10:05AM  
Repair Order: 265271  
Customer: 413689  
Branch: Mary  
Invoice Total: \$50,466.76  
\*\*\*Open Account - Charge\*\*\*  
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Customer P/O: need kblonk Completion Date:

revision, reset injectors. Prime fuel system. Start truck, no leaks at this time. Top oil off. Flush cooling system. Replace air filters. Reinstall aftertreatment covers and steps. A/C system leak test passed. Re-charge a/c system. Install interior & hood. Hood front bushings are worn, adjusted, but they should be replaced. Connect electrical harnesses, secure. Test drive: Engine runs fine. Under heavy acceleration there's a noticeable noise heard on the driver's side of engine. Power steering cuts in/out intermittently. Install smoke machine and test intake system. Found no sources of leakage. Remove CAC piping and pressure test CAC boots and CAC to 30 psi, wouldn't hold. Spray CAC piping and CAC. Found multiple spots in CAC that were leaking. Customer wants CAC replaced. Verify HP fuel pump timing to rule out any excessive gear noise. Replace fuel pump sealing gasket, clean and reinstall all fuel supply lines, replace fuel filter. R&R CAC. Verify no fuel leaks from CAC or fuel pump inspection. Re-test drive. No more noise. Power steering still occasionally feels hard. Recommend flushing fluid and replacing filter than re-testing. Customer declined. Repair complete.

| Supp. Part | Ext Sublet    | Description / Ref Number  | U/M  | Quantity | Price    | Extended Price |
|------------|---------------|---------------------------|------|----------|----------|----------------|
| CUM10      | 3688113CUM    | Clean DOC                 | Misc | 1.00     | 324.00   | 324.00         |
| PTBPR      | 3688698CUM    | PLUG-GEAR COVER           | Part | 1.00     | 12.38    | 12.38          |
| CUM10      | 3683670CUM    | BREATHER-CRANKCASE        | Part | 1.00     | 1,016.44 | 1,016.44       |
| CUM10      | 3683670CUM    | SEAL-GROMMET              | Part | 1.00     | 5.86     | 5.86           |
| CUM10      | 5575513CUM    | SCREW-HEX FLANGE HEAD CAP | Part | 1.00     | 7.43     | 7.43           |
| CUM10      | 4965512CUM    | SCREW-HEX FLANGE HEAD CAP | Part | 12.00    | 6.43     | 77.16          |
| CUM10      | 4934278CUM    | SPACER-ISX                | Part | 12.00    | 9.78     | 117.36         |
| CUM10      | 4834278CUM    | WASHER-SEALING            | Part | 2.00     | 2.83     | 5.66           |
| CUM10      | 3081695CUM    | WATER OUTLET O-RING SEAL  | Part | 1.00     | 6.83     | 6.83           |
| CUM10      | 4373989CUM    | HARNESSES-ETR CNT MDL WRG | Part | 1.00     | 1,219.79 | 1,219.79       |
| CUM10      | 3685808CUM    | TUBE-INJECTOR FUEL SUPPLY | Part | 3.00     | 352.71   | 1,058.13       |
| CUM10      | 3685809CUM    | TUBE-INJECTOR FUEL SUPPLY | Part | 2.00     | 115.61   | 231.02         |
| CUM10      | 3685810CUM    | TUBE-INJECTOR FUEL SUPPLY | Part | 1.00     | 116.03   | 116.03         |
| CUM10      | 3967290CUM    | VALVECHECK                | Part | 1.00     | 87.07    | 87.07          |
| CUM10      | 3963988CUM    | WASHER-SEALING            | Part | 1.00     | 3.76     | 3.76           |
| CUM10      | 3963991CUM    | WASHER-SEALING            | Part | 2.00     | 5.15     | 10.30          |
| CUM10      | 3963990CUM    | WASHER-SEALING            | Part | 9.00     | 3.09     | 27.81          |
| CUM10      | 3688597CUM    | HOSE-MOLDED               | Part | 1.00     | 108.13   | 108.13         |
| CUM10      | 3688609CUM    | HOSE-MOLDED               | Part | 1.00     | 98.86    | 98.86          |
| PTBPR      | 3691687CUM    | ELEMENT,BREATHER          | Part | 1.00     | 171.31   | 171.31         |
| CUM10      | 4337056CUM    | CLAMP,HOSE                | Part | 2.00     | 7.12     | 14.24          |
| CUM10      | 2871453CUM    | GASKET-DPF ASSY           | Part | 2.00     | 33.08    | 66.16          |
| CUM10      | 2871863CUM    | CLAMP-V BAND              | Part | 2.00     | 83.46    | 166.92         |
| CUM10      | 2866337CUM    | GASKET-CIRCULAR 5"        | Part | 1.00     | 12.83    | 12.83          |
| PTBPR      | 90-0013       | CLAMP-V BAND 5"           | Part | 1.00     | 14.98    | 14.98          |
| DON10      | X011623       | AIR FILTER PREMIE         | Part | 1.00     | 148.06   | 148.06         |
| FGD10      | FF5776FLG     | FILTER-FUEL COMB          | Part | 1.00     | 41.07    | 41.07          |
| EXTM10     | 105816EXX     | OIL-DELVAC 1300 SUP 15W-4 | Part | 12.00    | 19.18    | 230.16         |
| PTBVN      | 1000463488BSM | VALVE-EXPANSION           | Part | 1.00     | 79.24    | 79.24          |
| TRP        | LM11350       | CASTROL A/C PAG 100 8 OZ  | Part | 1.00     | 15.94    | 15.94          |
| CUM10      | 4921519CUM    | SENSOR-PRESSURE           | Part | 1.00     | 163.76   | 163.76         |
| CUM10      | 3685173CUM    | SEAL-OIL                  | Part | 1.00     | 61.48    | 61.48          |
| PTBPR      | 105FBC        | LUBRIPLATE                | Part | 2.00     | 11.29    | 22.58          |
| PTBPR      | T1673009      | TANK ASSY-SURGE,OGP       | Part | 1.00     | 415.34   | 415.34         |

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| TRPCT      | EC3501          | COOLANT-TRP ELC 50/50 JUG   | Part     | EA | 12.00 | 11.06    | 132.72   |
|------------|-----------------|-----------------------------|----------|----|-------|----------|----------|
| PACPR      | 079340-43709    | LOCITTE 5188, 50 ML, FLANGE | Part     | EA | 1.00  | 31.32    | 31.32    |
| Wellton15  | R134A-LBS       | FREON R134A LBS             | Part     | EA | 3.00  | 12.31    | 36.93    |
| PTBPR      | 3687007CUM      | SEAL-RECTANGULAR STRIP      | Part     | EA | 1.00  | 49.28    | 49.28    |
| CUM10      | 3691011CUM      | COVERGEAR FRONT             | Part     | EA | 1.00  | 196.00   | 196.00   |
| CUM10      | 5658175CUM      | SEAL, RECTANGULAR RING      | Part     | EA | 1.00  | 10.28    | 10.28    |
| CUM10      | 3681174CUM      | SCREW HEX FLANGE HEAD CAP   | Part     | EA | 8.00  | 7.49     | 59.92    |
| CUM10      | 3685556CUM      | GASKET-ADAPTER              | Part     | EA | 1.00  | 11.37    | 11.37    |
| CUM10      | 3686901CUM      | ADAPTER-SENSOR              | Part     | EA | 1.00  | 111.86   | 111.86   |
| CUM15      | 3882922         | SCREW TWELVE POINT CAP      | Part     | EA | 3.00  | 7.68     | 23.04    |
| CUM10      | 4393089CUM      | GASKET GEAR HOUSING         | Part     | EA | 1.00  | 69.03    | 69.03    |
| CUM10      | 3412921CUM      | SCREW HEX FLANGE HEAD CAP   | Part     | EA | 2.00  | 13.75    | 27.50    |
| PTBPR      | 3686745CUM      | SCREW HEX FLANGE HEAD CAP   | Part     | EA | 1.00  | 8.38     | 8.38     |
| CUM10      | 5594275NXXCUM-C | SENSOR, POSITION            | Part     | EA | 1.00  | 28.92    | 28.92    |
| CUM10      | 5594275NXXCUM-C | SENSOR, POSITION-CORE       | Inherent |    | 1.00  | 11.56    | 11.56    |
| Ext Sublet |                 | Block Cutting               | Misc     |    | 1.00  | 2,544.00 | 2,544.00 |
| CUM10      | 5440813CUM      | GASKET, ACC DRIVE SU        | Part     | EA | 1.00  | 14.29    | 14.29    |
| CUM10      | 5414049CUM      | GASKET FUEL PUMP            | Part     | EA | 1.00  | 24.04    | 24.04    |
| CUM10      | 4903514CUM      | SEAL-O RING                 | Part     | EA | 1.00  | 5.12     | 5.12     |
| CUM10      | 3164067CUM      | SEALANT                     | Part     | EA | 1.00  | 21.52    | 21.52    |
| CUM10      | 5658302RXCUM-C  | HEAD, CYLINDER              | Part     | EA | 1.00  | 5,744.10 | 5,744.10 |
| CUM10      | 5658302RXCUM-C  | HEAD, CYLINDER-CORE         | Inherent |    | 1.00  | 635.94   | 635.94   |
| Road War15 | C0107-SA        | DFF FLTR (5579295)5295609,  | Part     | EA | 1.00  | 1,511.25 | 1,511.25 |
| CUM10      | 5693737CUM      | KIT, CLASSIC OVERHAUL       | Part     | EA | 1.00  | 6,857.05 | 6,857.05 |
| CUM10      | 5468170CUM      | HOUSING GEAR                | Part     | EA | 1.00  | 789.71   | 789.71   |
| CUM10      | 5484100CUM      | SHAFT IDLER                 | Part     | EA | 1.00  | 82.63    | 82.63    |
| CUM10      | 3896408CUM      | SCREW HEX FLANGE HEAD CAP   | Part     | EA | 1.00  | 5.94     | 5.94     |
| CUM10      | 5658175CUM      | SEAL, RECTANGULAR RING      | Part     | EA | 1.00  | 10.28    | 10.28    |
| CUM10      | 3680882CUM      | SCREW CAPTIVE WASHER CAP    | Part     | EA | 13.00 | 6.15     | 79.95    |
| CUM10      | 3681149CUM      | BEARING THRUST              | Part     | EA | 1.00  | 53.03    | 53.03    |
| CUM10      | 3680866CUM      | SCREW HEX FLANGE HEAD CAP   | Part     | EA | 1.00  | 9.97     | 9.97     |
| CUM10      | 3678506CUM      | SCREW HEX FLANGE HEAD CAP   | Part     | EA | 22.00 | 20.54    | 451.88   |
| CUM10      | 3678804CUM      | SCREW HEX FLANGE HEAD CAP   | Part     | EA | 4.00  | 13.39    | 53.56    |
| CUM10      | 4934279CUM      | WASHER-SEALING              | Part     | EA | 6.00  | 3.88     | 23.88    |
| CUM10      | 3896408CUM      | SCREW HEX FLANGE HEAD CAP   | Part     | EA | 2.00  | 5.94     | 11.88    |
| CUM10      | 3685456CUM      | SEAL-WATER PUMP             | Part     | EA | 1.00  | 3.43     | 3.43     |
| CUM10      | 3412921CUM      | SCREW HEX FLANGE HEAD CAP   | Part     | EA | 1.00  | 13.75    | 13.75    |
| CUM10      | 4299124CUM      | SEAL-O RING                 | Part     | EA | 1.00  | 10.87    | 10.87    |
| DON10      | X011623         | AIR FILTER PREMIE           | Part     | EA | 1.00  | 148.06   | 148.06   |
| CUM15      | 5298564         | SHIM                        | Part     | EA | 6.00  | 51.92    | 311.52   |
| CUM10      | 4374074CUM      | SCREW TWELVE POINT CAP      | Part     | EA | 3.00  | 1.98     | 5.94     |
| PTBPR      | F37-6017        | RECEIVER-DRYER DAY CAB      | Part     | EA | 1.00  | 112.16   | 112.16   |
| CUM10      | 4966454CUM      | CLAMP-V BAND                | Part     | EA | 2.00  | 49.88    | 99.76    |
| CUM10      | 4966441CUM      | GASKET-EXH OUT CONNECTION   | Part     | EA | 1.00  | 16.67    | 16.67    |



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Shop: 425-236-3961

Customer P/O: need kbkonk

Completion Date:

| Part                    | Quantity | U/M | Description / Ref Number  | Price    | Extended Price |
|-------------------------|----------|-----|---------------------------|----------|----------------|
| CUM10                   | 1.00     | EA  | CLAMP-V BAND              | 50.29    | 50.29          |
| CUM10                   | 1.00     | EA  | GEARIDLER                 | 247.28   | 247.28         |
| CUM10                   | 1.00     | EA  | GEARIDLER                 | 231.30   | 231.30         |
| CUM10                   | 1.00     | EA  | HEAD, CYLINDER-Core       | (635.94) | (635.94)       |
| CUM10                   | 1.00     | EA  | SENSOR, POSITION-Core     | (11.56)  | (11.56)        |
| CUM10                   | 1.00     | EA  | SHIM - KIT                | 22.05    | 22.05          |
| TRP                     | 1.00     | EA  | BELT-POLY 12 RIBS X 2180  | 100.99   | 100.99         |
| DYC10                   | 1.00     | EA  | BELT-POLY 6 RIBS X 1620 E | 52.75    | 52.75          |
| DYC10                   | 1.00     | EA  | FITTING- STR 3/8" BEAD TO | 11.87    | 11.87          |
| PACPR                   | 1.00     | EA  | STRAP ASSY-DIESEL PARTICU | 49.12    | 49.12          |
| BHR10                   | 1.00     | EA  | CAC ASSY-SERVICE          | 2,354.60 | 2,354.60       |
| PACPR                   | 1.00     | EA  | CLAMP-HOSE CONSTANT TORQU | 4.30     | 4.30           |
| CUM10                   | 1.00     | EA  | HOSE-ELBOW                | 49.28    | 49.28          |
| TRP                     | 1.00     | EA  | CLAMP-HOSE W/LINER #16    | 3.72     | 3.72           |
| <b>Task 3 Subtotals</b> |          |     |                           |          | \$25,575.01    |
| Parts:                  |          |     |                           |          | \$25,575.01    |
| Core Charge:            |          |     |                           |          | \$647.50       |
| Core Ret:               |          |     |                           |          | (\$647.50)     |
| Labor:                  |          |     |                           |          | \$15,170.00    |
| Miscellaneous:          |          |     |                           |          | \$2,868.00     |
| Task 3 Totals:          |          |     |                           |          | \$43,613.01    |

**Task: 4 401**

**Diagnostic Troubleshooting**

Department: Service

**Complaint:** During computer update, found CECU wasn't communicating, inspect and advise.  
**Correction:** Unit came in for 20PBC campaign. Connected service tool to install latest calibration into CECU. Update failed. Instrument cluster went blank. Lost all cluster back lighting and gauge functions. Four way flashers will stay on at key on. Checked power fuses at pin 9 as my ground had batt voltage to connector J41. Checked ground side. No voltage measured. Moved up to gauge cluster. Checked power at pin 1, used pin 3 as ground, measured battery voltage at gauge cluster connector. No voltage on ground side. Checked cluster terminating resistance at pins 7,9. Measured 120ohms at the cluster. Made resistance checks along can HIL/LOW wires to CECU connector. Measured .02 ohms on each circuit. CAN HIL/LOW are pinned correctly. Was suspecting a faulty CECU. Installed test CECU and was able to connect. Still getting component communication errors for the cluster and HVAC module. Tried using "fix" function, was able to update the CECU and chassis node, but the communication errors to cluster and HVAC remained. With the test CECU installed was able to get cluster backlighting back, but no gauge functionality. Removed test CECU and reinstalled original. Connect EST and re-flashed CECU to an older version. Calibration was pushed through. Was able to restore original CECU parameters from web E cat. Pushed the newest revision through, calibration was successful. Cluster was restored, dash functionality was back. All light functions were back to normal. Test drove unit. No issues, no errors. Repair complete.

| Part                    | Quantity | U/M | Description / Ref Number | Price | Extended Price |
|-------------------------|----------|-----|--------------------------|-------|----------------|
| <b>Task 4 Subtotals</b> |          |     |                          |       | \$0.00         |
| Parts:                  |          |     |                          |       | \$0.00         |
| Labor:                  |          |     |                          |       | \$740.00       |
| Task 4 Totals:          |          |     |                          |       | \$740.00       |



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 Invoice Total: \$50,466.76  
 \*\*\*Open Account - Charge\*\*\*  
 Page 6 of 9

**Bill To:** Hos Brothers Construction

P. O. BOX 1788

PO Box 1788

WOODINVILLE OUTSIDE, WA 98072

Shop: 425-236-3961

Customer P/O: need kblonk Completion Date:

**Task: 5 401**

**Diagnostic Troubleshooting**

**Department: Service**

**Complaint:**

During repair verifications found the steering acting up, inspect the pump

**Correction:**

Customer declined further inspection on the steering.

**Task: 6 521**

**Engine Assembly - Miscellaneous Repair**

**Department: Service**

**Complaint:**

Truck returned with CEL on, inspect and advise.

**Correction:**

Customer returned with CEL on, connected EST and verified customer complaint, active FC2311 was set. Fuel pump actuator control circuit resistance too high/low. Removed fuel pump actuator connector. Found signs of overheating in the connector. Made resistance checks through fuel actuator. Measured 2.6ohms spec is no greater than 5 ohms. Checked for shorts in fuel pump actuator circuit on fuel actuator side. Both circuits measured w/in spec, checked for shorts to ground on harness side on both signal and return circuits at fuel pump actuator connector. No shorts were measured in harness. Made pin to pin resistance checks on signal and return circuits to ECM connector pin 10 and 11. Both circuits measured .001 ohms of resistance w/in spec for both circuits. Load test both legs of harness. There was no voltage drop detected on the fuel pump actuator harness side. Engine harness is brand new when overhaul was completed. Suspecting an intermittent connection issue w/in the fuel pump actuator itself. There were three counts of fc2311 coming active/inactive. Verified if a fuel pump actuator was available. Pulled fuel pump actuator, contacted customer for approval. Approval given. Remove and replaced fuel actuator. Torqued actuator bolts to spec, connected electrical connector. FC2311 inactive. Ran truck. Code didn't come active. Cleared codes, unit couldn't be test driven with trailer still attached. Codes never did return. Released unit.

Supp. Part Description / Ref Number U/M Quantity Price Extended

|       |                |          |        |        |         |
|-------|----------------|----------|--------|--------|---------|
| CUM10 | 4307411NXGUM   | Part     | 1.00   | 249.98 | 249.98  |
| CUM10 | 4307411NXGUM-C | Inherent | 1.00   | 75.16  | 75.16   |
| CUM10 | 287213900      | Part     | (1.00) | 75.16  | (75.16) |

**Task 6 Subtotals**

Parts:

\$249.98

Core Charge:

\$75.16

Core Ret:

(\$75.16)

Labor:

\$277.50

Task 6 Totals:

\$527.48

Payment Method  
Charge

|                             |             |
|-----------------------------|-------------|
| <b>Totals</b>               |             |
| Total Parts:                | \$25,824.99 |
| Total Core Chg:             | \$722.66    |
| Total Core Ret:             | (\$722.66)  |
| Total EHC:                  | \$0.00      |
| Total Labor:                | \$16,187.50 |
| Total Miscellaneous:        | \$2,868.00  |
| Total Computer Hook Up Fee: | \$50.00     |
| Total Environmental Fee:    | \$200.00    |
| Total Shop Supplies:        | \$1,000.00  |
| Invoice Subtotal:           | \$46,130.49 |
| Total Tax:                  | \$4,336.27  |
| Inviced Total:              | \$50,466.76 |

Customer P/O: need kblonk Completion Date:

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**DOBBS PETERBILT**



15330 Smokey Point Blvd.  
Marysville, WA 98271  
TF: (888) 755-7383

\*\*\*Customer Review \*\*\*  
Date / Time: 3/17/2023 10:10:05AM  
Repair Order: 265271  
Customer: 413689  
Branch: Mary  
Invoice Total: \$50,466.76  
\*\*\*Open Account - Charge\*\*\*  
Page 7 of 9



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15330 Smokey Point Blvd.  
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Customer P/O: need kblonk Completion Date:

**LIMITED WARRANTY**

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE. WHO IS COVERED: The Dealer is issuing this invoice (the "Dealer Invoice") to you, the customer listed on this repair order/invoice. It does not extend to any subsequent owner. It cannot be transferred to any other person. WHAT IS COVERED: The Dealer warrants the workmanship of our labor performed in conjunction with repairs for 90 days (the "Warranty Period"). Said Warranty Period commences on the date ("Invoice Date") that the repairs are completed. The following items will void this Limited Warranty: if the failure was caused by misuse, abuse, lack of or improper maintenance, accident, alteration, overheating, and/or lack of lubrication or coolant. For any failure caused by the Dealer's workmanship (labor) covered by this Limited Warranty, the Dealer will either repair or replace such failure, at its option, in the Dealer's facility.

**YOUR RESPONSIBILITIES:** All items must be returned to our shop with transportation charges prepaid for our inspection and determination within 60 days from the date of the sales invoice covering said items. The customer is required to return the vehicle to the Dealer's or authorized repair facility at the customer's expense. You must retain copies of your Repair Order/Invoices, and, upon request, be able to present them to us when requesting coverage under this Limited Warranty. Upon return of the vehicle to you, you must pay for any parts, labor, products, expenses, freight and taxes that the Dealer is not obligated to provide or pay for under this Limited Warranty.

**WHAT IS NOT COVERED:** Repairs which are still covered by a manufacturer's warranty or recall or other third party warranty/service contract. The Dealer's Limited Warranty shall be secondary to any such warranty or service contract that provides coverage for repair claims covered hereunder. Damage caused by you for failure to use manufacturer approved fluids, or the lack thereof, including but not limited to oil, antifreeze, and DEF. Any failure or damage resulting from your failure to perform maintenance in accordance with the manufacturer's recommendations; your failure to maintain appropriate fluid levels (e.g. oil, water, DEF, transmission fluid); your continued operation of the vehicle after warning light notification; modification or operation of the vehicle in a manner that is not in conformance with the manufacturer's specifications or intended use; an accident or collision; your use of improper or contaminated fluids including fuel, and/or misuse, abuse, tampering, negligence, theft, vandalism, or acts of nature or God. Parts installed and/or repairs performed on vehicles used primarily for off road competition or engaging in a contest of speed or endurance of any type. **INSPECTION RIGHTS:** The Dealer reserves the right to inspect the vehicle and any parts removed from or installed in the vehicle both prior to and after a repair is performed pursuant to a claim made under this Limited Warranty.

**EXCLUSIVE REMEDY:** The performance of labor to effect repairs is the exclusive remedy available under this written Limited Warranty. THE PERFORMANCE OF LABOR TO EFFECT REPAIRS IS YOUR SOLE AND EXCLUSIVE REMEDY AND OUR ENTIRE LIABILITY FOR ANY BREACH OF THIS LIMITED WARRANTY. OUR LIABILITY SHALL UNDER NO CIRCUMSTANCES EXCEED THE ACTUAL AMOUNT PAID BY YOU FOR THE LABOR WE SUPPLIED, NOR SHALL WE UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES OR LOSSES, WHETHER DIRECT OR INDIRECT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

**IMPLIED WARRANTY DISCLAIMER:** The only warranty on parts and products sold in conjunction with repairs performed by the manufacturer or supplier of said parts or products. Except for the limited warranty on the workmanship of our labor, the Dealer expressly disclaims all implied warranties including any implied warranties of the merchantability and fitness for a particular purpose for any period beyond the Warranty Period. WE LIMIT THE DURATION AND REMEDIES OF ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE DURATION OF WARRANTY PERIOD. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. NO ASSUMPTION OF LIABILITY: The Dealer does not authorize any other person to assume for it any liability in connection with the sales of any parts or products of this repair.

**THE FOLLOWING APPLIES TO ALL OF OUR CUSTOMERS**

**STORAGE CHARGES:** I understand and agree that a daily storage charge may be assessed if I fail to pick up the vehicle after being notified that the repairs have been completed. Storage charges will accrue at the rate of \$45.00 per day beginning 15 days after the repair has been completed. Storage fees will also accrue at the same charge if I fail to authorize repairs to be performed within three days after the data of communication from the Dealer. **DISASSEMBLY/REASSEMBLY CHARGES:** If you authorize disassembly of the vehicle or a vehicle component to provide an estimate or commencement of repairs and do not authorize completion of a repair or service, a charge will be imposed for disassembly, reassembly or partially completed work and you agree to pay the same. Such charges will be directly related to the actual amount of labor and parts involved in the inspection, repair or service. I have been advised that disassembly of the vehicle may prevent restoration of the vehicle to its prior condition.



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**DELAYS AND LEGAL LIABILITY:** I understand and agree that the Dealership is not responsible for any delays caused by unavailability of parts or shipping by the supplier or transporter or any losses or downtime relating to such delays, nor is it responsible for loss or damage to the vehicle or articles left in the vehicle in the event of fire, theft, or any other cause beyond its control. The Dealership will not be responsible for personal property. You and your representative agree to hold the Dealership harmless and not liable for any missing or damaged property.  
**WARNING:** Products being sold to you can expose you to chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Customer Signature: \_\_\_\_\_ Date: \_\_\_\_\_