

10200 E. 106th Ave. Brighton, CO 80601 303-286-7555

SALES - SERVICE - PARTS - RENTALS - FABRICATION

\*\*\* Customer Review \*\*\*

10/11/2022 10:00:15AM

Date / Time: 10/11/2022

Repair Order: 3777

Customer: 17869

Branch: Brighton

Invoice Total: \$10,977.34

\*\*\*COD\*\*\* Page 1 of 4

Bill To: Ship To:

Customer P/O: MCampbell Completion Date:

Unit Number: 5529 Model Year: 2007 Make/Model: Peterbilt 357

Type: Chassis VIN: 1NPAL00XX7N675529 Meter: 142426 Miles

ECM Reading: 25441

Manufacturer:Altec Model:AC38-127 Capacity:76000 Lbs Year:2007

Serial Number:0907EG0470

Task: 1 10401 Diagnose Department: Service

Complaint: Customer states both the boom and the winch cable will not return after extending.

Set up unit, confirm customer concern, diagnose and advise on repair.

Cause: Note: Customer is aware that plates and OSHA are expired. States he is selling unit and just wants boom and winch issues addressed.

Correction: Found front display to be faulty, we used a functional display and plugged it in, which made the screen work, cleaned electrical connections with contact cleaner.

Installed the new lmi screen. Calibrated the angle and length sensor when collapsed. Set the length over all. Retracted the boom. Lowered the boom and the angle sensor is not reading properly. Calibrated the angle sensor again and the sensor is still not reading right. The crane needs a new angle sensor. Stowed the crane.

Remove and install the sensor and calibrated the system then found that the system isnt cooperating having resistor issue not reading correct.

Had to re-wire the Reel electrics most of the wiring was misplaced and the sensor got damaged due to the way it was wired in. That is probably why the original sensor and the new sensor were doing the same behavior.

New sensor needed and I got with the shop on the wiring pattern needed to correct the issue and to resolve the sensor reading issue.

Removed the sensor / potentiometer and soldered in the new one then i conneccted the wiring up the way dan (road tech had set up and then turned the truck on calibrated the sensor nper instructions and then i zeroed the sensors and tested it is reading half what it should but the boom goes up and down corectly sensor is just off for some reason need to contact zach /t dan to verify the repair procedure. Started the truck and built air up then lifted the outriggers after turning on the PTO then turned the truck around to make unit more level then re-calibrated as per instructed by paperwork.

While calibrating the unit screen kept flaking out start cutting offand back on isnt holding the informatiom spot trying to calibrate goes to -- on 2 spots and cuts out and puts numbers in then takes them away again.

Started the truck to build air pressure so that i could engage the PTO then i engaged the PTO, then i removed the reel angle and length counter board then calibrated the angle sensor to spec then calibrated the counter to spec then tested the specs and calibration once i got the truck calibrated at the LMI in the operators compartment i calibrated and zero out all sensors then set the span and the truck operated fine lifting and booming out at 65 degrees then boomed back in the winch operated fine as well. QC checked. All okay after repairs performed.

								Extended
Supp.	Part		Description / Ref Number		U/M	Quantity	Price	Price
		Env HC CO	Brighton Enviro Fee	Misc		1.00	528.00	528.00
		FRTa-BRI	Freight- FedEx Next Day Air	Misc		1.00	404.69	404.69
KIM		380724	7/16-14X3" KM-USA HH GR8 CS	Part	EA	1.00	2.40	2.40
ALT		ALT 97034210	LMI DISPLAY	Part	EA	1.00	4,112.24	4,112.24
NAP		091314	BRAKLEEN	Part	EA	2.00	6.89	13.78
GRE		P010103	POTENTIOMETER ANGLE *NOTE*	Part	EA	1.00	176.80	176.80



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Bill To:

Ship To:

MCampbell Customer P/O: Completion Date:

Manufacturer:Altec Model:AC38-127 Capacity:76000 Lbs Year:2007 Serial Number:0907EG0470

Task Subtotals

99912

\$4,305.22 Parts: \$0.00 Core Chg: \$0.00 Core Ret \$0.00 EHC: \$5,280.00 Hours: 33.00 Labor: Miscellaneous: \$932.69 Task 1 Subtotals: \$10,517.91

Task: 2 11103 Remove and Install Department: Service

Extended Description / Ref Number U/M Price Part Quantity Price Supp. GRE P010103 POTENTIOMETER ANGLE "NOTE" 1.00 176.80 Part EΑ 176.80 Task Subtotals

\$0.00 Parts: \$0.00 Core Chg: Core Ret \$0.00 \$0.00 EHC: Hours: 0.00 Labor: \$0.00 \$0.00 Miscellaneous:

> Task 2 Subtotals: \$0.00



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Date / Time: 10/11/2022 10:00:15AM Repair Order: 3777 Customer: 17869

Branch: Brighton Invoice Total: \$10,977.34

> \*\*\*COD\*\*\* Page 3 of 4

Bill To:

40.0

Ship To:

Customer P/O: MCampbell Completion Date:

Manufacturer:Altec Model:AC38-127 Capacity:76000 Lbs Year:2007 Serial Number:0907EG0470

Totals

Total Parts: \$4,305.22
Total Core Chg: \$0.00

Total Core Ret: \$0.00

Total EHC: \$0.00

Total Labor: \$5,280.00

Total Miscellaneous: \$932.69

Invoice Subtotal: \$10,517.91

Total Tax: \_ \_ \_ \$459.43

Invoiced Total: \$10,977.34

Payment Method

COD



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MCampbell

Completion Date:

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Year:2007

Serial Number:0907EG0470

Authorization - I hereby certify that I have the legal right to authorize repairs for the above listed equipment, either through legal ownership, lease rights, or written authorization from the vehicle's owner. I authorize Craneworks, Inc. to take the steps necessary to perform the repairs listed in this contract, including any necessary on-road vehicle testing or the operation of any attached equipment.

Estimate - Parts, freight, sublet items, labor hours, shop supplies, and taxes are estimates only and are subject to change. Freight is estimated for standard delivery. Expedited freight at the customer's request may incur additional charges. The above estimate is based on an initial inspection and industry experience. Additional repairs or parts may be required after the above work has begun. As the repair process changes, Craneworks, Inc. will require written authorization from the customer in order to continue repairs as the estimate dollar amounts change.

Deferred Repairs - Craneworks, Inc. may find the need for additional repairs not listed in this estimate. Those repairs will be brought to the customer's attention. If these repairs are declined by the customer, they will be listed under "deferred repairs" on the final customer invoice.

Payment - I agree to pay in full for the services described above upon successful completion of all listed repairs prior to picking up the vehicle or equipment from Craneworks, Inc. I agree to pay for all parts, labor, fees, taxes, and other charges incurred during the performance of any repairs authorized in writing. Craneworks, Inc. will provide an invoice upon completion of repairs detailing all fees and listing a final outstanding balance for payment. Payment must be made in full before the vehicle will be returned unless alternative payment arrangements and terms are made in advance with an authorized representative of the Craneworks, Inc. Service Department.

Non-OEM Parts - I acknowledge that any repairs using parts not made by the vehicle's manufacturer (commonly known as "aftermarket parts") may lead to the following:

Lease or Finance Violation: Some lease and finance contracts require the purchaser or lessee to make repairs using only original manufacturer parts ("OEM Parts"). Aftermarket parts used in repairs may violate these contracts.

Decrease in Value: Repairs made using aftermarket parts may lead to increased depreciation and lost vehicle and lost equipment value.

Manufacturer Warranty: Some manufacturers require that all repairs be made using only OEM parts. Use of aftermarket parts may void equipment warranties.

In recognition of the above risks, Craneworks, Inc. shall not use any parts for repairs unless those parts are approved for use by the customer. It is advised that the customer take the above risks into account when choosing parts for necessary repairs.

While the customer has the sole right to choose which parts are used for repairs to the listed vehicle, Craneworks, Inc reserves the right to exercise professional judgement and refuse to make repairs using parts which are deemed inadequate or unsafe.

Labor Warranty - Craneworks, Inc. shall provide a limited warranty covering the work performed under the terms of this equipment repair contract. This warranty shall last for a period of ninety (90) days from the completion of authorized repairs. During the warranty period, Craneworks, Inc. will, at its sole cost and expense, correct any defects in workmanship related to the repairs performed in relation to this contract. This warranty covers labor only and does not extend to any parts used for repairs.

Binding Contract - This contract shall be considered binding upon both parties and their assignees or successors, including subsequent title holders for the equipment being repaired.

Additional Services - No services outside of those described in this auto repair contract will be performed by Craneworks, Inc. without prior written approval from the customer.

Entire Agreement - This contract represents the entire legal agreement between Craneworks, Inc and the customer. No other promises or arrangements outside of this contract and subsequent repair authorizations shall be considered valid.

Penalty for Nonpayment - Craneworks, Inc. shall not be required to release the above listed vehicle until the customer has made full payment for all services approved in writing and performed by Craneworks, Inc. In the event that any repair services rendered are not paid for within 30 days of completion an additional charge of \$20.00 per day or highest allowable amount by law will be added to the total invoice amount.

Customer Approval - By signing below, the customer indicates approval of the services and rates listed in this repair contract. Likewise, they agree to the full terms of this contract without exception.

Customer Signature:		