



11503 St. Charles Rock Rd.
 Bridgeton, MO 63044
 (314) 291-2050
 Fax: (314) 291-8353

SERVICE DEPARTMENT HOURS
 7:30 a.m. to 6:00 p.m.
 Monday - Saturday

R/O Open Date	R/O Number
03/24/25	6224618/1
R/O Close Date	Status
04/02/25	Pre-Invoice
Mileage In	Mileage Out
37387	37387
Service Advisor / Tag #	
PJ/2467	

HOLTHAUS, ROBERT 516 MID MEADOWS LANE KIRKWOOD, MO 63122			Work Phone	Vehicle Identification Number	
			314-449-8314	1C4JJXFM6PW587235	
			Home Phone	Delivery Date	
			314-680-2624		
Year	Make	Model	Body	Color	License Number
2023	JEEP	WRANGLER UNLI		EARL CLEAR	

DESCRIPTION OF SERVICE AND PARTS	AMOUNT
Cell: 314-680-2624 Email: bob@holthaustech.com AR#: HOLT001	
#1 - 10DOZMPI: PERFORM COURTESY MULTI-POINT INSPECTIONFACTORY PARTS COME WITH A TWO YEAR PARTS ANDLABOR WARRANTY. *EXCLUSIONS APPLY* PERFORM COURTESY MULTI-POINT INSPECTION FACTORY PARTS COME WITH A TWO YEAR PARTS AND LABOR WARRANTY. *EXCLUSIONS APPLY* SUBJECT TO A STORAGE FEE OF \$ MULTI-POINT INSPECTION (ACCORDING TO MAINTENANCE INTERVAL) Caused by *JOB 2 NOTES CONTINUED* Applied heat shrink to existing wires in the harness that are no longer going to be used. Installed 3 new pins in PCM location 37, 51, & 52. Crimped and soldered wiring from the new cam sensor pigtail to new wiring in PCM C2 connector. Marked wiring locations with tape to mark pin numbers to corresponding pin locations in cam sensor connector. Twisted all 3 wires together. Placed wiring in proper locations in the new Cam sensor connector. As stated by star agent, wrapped new cam sensor harness in foil tape to help with RF interference. Placed wiring loom over foil taped harness to make the appearance look acceptable. Installed new cam sensor (due to lock tab missing). Connected new connector.	

TERMS: STRICTLY CASH UNLESS ARRANGEMENTS ARE MADE. "I hereby authorize the repair work hereinafter 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 the 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 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."

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LABOR	
PARTS	
DEDUCTIBLE	
SUBLET	
SHOP SUPPLIES	
HAZARDOUS MATERIALS	
SALES TAX OR TAX I.D.	
SPECIAL ORDER DEPOSIT	
DISCOUNTS	
TOTAL DUE	

NO RETURN ON ELECTRICAL OR SAFETY ITEMS OR SPECIAL ORDERS.

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HOLTHAUS, ROBERT
 516 MID MEADOWS LANE
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Cleared codes and retested. Code has not returned at this time. Repairs are complete. If concern persists, a solution by engineering is still undetermined at this time.
 Sub Total: .00

#2 - 08: ELECTRICAL

ELECTRICAL CONCERN

[CUSTOMER STATES CHECK ENGINE LIGHT COMES AND GOES FOR CAM CRANK PERFORMANCE AND MISALIGNMENT. CUSTOMER WAS HERE ON RO 6224093 HERE TO START STAR CASE AND SOLUTION. HAS BEEN WAITING FOR SOLUTION

Caused by

Verified concern. Cam code is present in the PCM. Code is P0341. Searched for TSB's found star case S2318000011 relating to concern. Cam sensor has already been replaced back in august of 2023. Customer was informed at that time that a solution was being looked in too. No solution was present at the time. Contacted star center. Case number is 102675598.

Corrected by

Tech: Tyler Stclair (774)

Installed 5140332AA :SENSOR: CAMSHAFT	1@148.37	148.37
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Installed 68394497AA :WIRING: 105 WAY	683 1@478.80	478.80
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Installed 68535910AA :WIRING: 3 WAY	1@125.48	125.48
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After talking with star agent, there is a remedy

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AMOUNT

that may help with the concern even though a fix is not yet determined. Star center request to reroute the alternator wiring to different positions on the vehicle and to wire in a new pigtail for the cam sensor, replace pins in PCM connector. The wiring for the cam sensor needs to be twisted similar to bus wires and covered in aluminum/foil tape to help with RF interference. Ordered Cam sensor pigtail.

03/26. ETA 03/27.

CORRECTION

Routed the alternator wiring as stated by diagram sent over by star agent. Ensured radiator cooling fan clearance is acceptable. Disconnected the battery, disconnected cam sensor connector and PCM C2 connector. Removed the CMP Ground (pin 51) CMP Signal (Pin 52) and CMP 5 Volt Supply (pin 37) from the PCM C2 connector.

SEE JOB 1 FOR FURTHER NOTES

Sub Total: 952.60

#3 * 99DOZ: RENTAL CARRENTAL CHARGES \$75 PER DAY
 ADDED OPERATION
 RENTAL

Work performed by 802850 : 7N6K4M

* All Star Thanks YOU for your Business! *

Warranty

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