

Invoice No:

INVOICE

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COLOR	YEAR	MAKE/MODEL		SN/VIN	UNIT NO.	MILES/HOURS	IN/OUT	TAG
50	13	MACK GU713		1M2AX04CXDM016432	F50	148841 / 148841		TF50
DEL DATE	PROD. DATE	WARR. EXP.	EST. COMPLETION		PO NO.		PAYMENT	INV. DATE
29OCT13			22:30 21JUN16		1			30JUN16
R.O. OPENED		R.O. CLOSED		OPTIONS: SOLD-STK:M8392 DLR:1				
20:37 09JUN16		17:15 30JUN16						
LINE OPCODE TECH TYPE HOURS					LIST	NET	TOTAL	
CUSTOMER PAY SHOP MATERIALS FOR REPAIR ORDER								

VIN #: 1M2AX04CXDM016432

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	\$ 11580.58

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LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
1		21819687	BELT TENSIONER				
1		21372809	V-RIBBED BELT				
1		21141725	IDLER PULLEY				
1		20953521	IDLER PULLEY				
1		5166*82220*	PERMATEX NON-CHLORINATED				
12		983472	CABLE TIE 35				
2		1677370	SEALING RING OUTLET PIPE				
1		20526428	SEALING RING				
1		20972295	FUEL FILTER				
1		85136715	FUEL FILTER				

PARTS: LABOR: OTHER: 0.00 TOTAL LINE C: 10227.14

148841 HOOKED UP THE COMPUTER CHECKED AND FOUND CODE SPN127 FMI18 FOR TURBO LOOSE CHECKED AND TESTED THE VGT WORKING FINE. TESTED THE CHARGE AIR COOLER AND THE EGR MASS AIR FLOW BOTH GOOD TESTED THE EGR VALVE IT PAST BUT NOT WORKING CORRECTLY. PERFORMED A CYLINDER BALANCE TEST THEN A CUT OUT TEST ALL PAST BUT 1 AND 6 SEEM A LITTLE WEAK AT 1400 RPMS. DRAINED THE COOLANT THEN REMOVED THE TURBO AND PULLED THE EGR COOLER OFF IT WAS PLUGGED SOAKED OVER NIGHT AND PRESSURE WASHED AND STEAM CLEANED. CHECKED OUT THE EGR VALVE IT WAS NOT WORKING CORRECTLY. CLEANED ALL THE PARTS THEN INSTALLED A NEW VALVE HAD TO REPLACE THE EXHAUST MANIFOLD THEN PUT ALL BACK TOGETHER. FILLED WITH COOLANT TEST DROVE AND RAN THE TRUCK ON THE DYNO TESTED THE TURBO AND THE EGR VALVE WORKING FINE HAD GOOD AIR FLOW. WORKED WITH MACK AND G.D NEXT STEP FOR THE POWER ISSUE IS TO REPLACE THE INJECTOR'S CALL THE CUSTOMER. DRAINED THE COOLANT THEN PULLED THE VALVE COVER OFF REMOVED THE ROCKER SHAFT AND PULLED THE INJECTORS AND THE CUPS OUT. CLEANED ALL THE SEALING SURFACES INSPECTED THE HEAD THEN INSTALLED NEW CUPS AND INJECTORS. INSTALLED THE ROCKER SHAFT THEN RAN THE FULL OVER HEAD PUT ALL BACK TOGETHER. FILLED WITH COOLANT INSTALLED NEW FUEL FILTERS. RAN THE ENGINE AND THE FAN BELT BROKE. INSPECTED THE FAN BELT TENSIONER AND THE IDLERS. REMOVED AND REPLACED THE FAULTY PARTS AND INSTALLED A NEW FAN BELT. FOR LEAKS NONE FOUND WASHED OFF THE ENGINE THE TEST DROVE GOOD POWER.

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LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
C** REPAIR THE CAUSE OF THE TRUCK TO RUN ROUGH AND HAVE NO POWER							
200AAELEC TROUBLESHOOT ELECTRONIC MALFUNCTIONS							
127 CPP							
1	21997579	TUBE					
1	21768562	EXHAUST MANIFOLD					
12	993167	SPACER SLEEVE					
10	21344787	FLANGE SCREW					
2	21482604	STUD					
6	21482601	GASKET					
2	1547253	SEALING RING					
1	975670	O-RING					
1	1547253	SEALING RING					
2	3679*07480*	3M SURF COND DISC, ROLOC					
1	21095721	GASKET					
1	21060426	CLAMP					
12	25164660	CLAMP					
1	20592787	CLAMP					
2	25174484	SCREW					
2	3679*32711*	FENDER WASHER 1/4X1 OD					
1	20706309	NUT					
1	25092485	WASHER					
2	20852765	GASKET					
1	85143384	UNIT INJECTOR KIT					
CORE CHARGE C							
-1	85143384	CORE RETURN					
1	OIL-FUEL	FUEL					
1	3679*BD10691*	BATTERY TERM PROTECTOR,					
1	85133799	EGR VALVE					
CORE CHARGE C							
1	85116577	INSTALLATION KIT					
1	POWERCLEAN	CLEANER					
-1	85133799	CORE RETURN					
2	3679*07480*	3M SURF COND DISC, ROLOC					
1	85124530	EGR COOLER KIT					

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LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
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A REPAIR THE CAUSE OF THE EML LIGHT TO BE ON  
 200AAELEC TROUBLESHOOT ELECTRONIC MALFUNCTIONS  
 898 CPP

MISC computer machine charge

CPP

PARTS: 0.00 LABOR: OTHER: TOTAL LINE A:

148841 HOOKED UP THE COMPUTER MACHINE AND CHECKED AND PRINTED THE  
 CODES. FOUND CODES FOR THE ABS AND THE ENGINE OIL LEVEL SENSOR.

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B REPAIR THE CAUSE OF A LONG CRANK HARD START COMPLAINT

2371030201 INJECTORS, REPLACEMENT (ALL)

898 CPP

22 CPP

127 CPP

- 1 3679\*110106\* PLUG, HEX, 45DEG SAE FLA
- 1 3679\*110126\* UNION, BRASS, 45DEG SAE
- 1 22188860 FUEL FILTER HOUSING
- 1 5166\*59214\* PERMATEX HIGH TEMPERATURE
- 2 994557 HOSE CLAMP
- 1 4771\*AFC11000F\* PRESTONE ELC ANTIFREEZE
- 3 3679\*KP35013\* EXTEND PRONG COTTER PIN
- 2 3679\*7588\* GREASE FITTING 1/8 PIPE
- 2 3679\*MP7577\* GREASE FITTING 1/8 PIPE

PARTS: LABOR: OTHER: 0.00 TOTAL LINE B: 603.92

148841 HOOKED UP CLEAR TEST FUEL LINES AND FOUND AIR IN THE FUEL  
 SYSTEM AFTER THE DAVCO FILTER ASSEMBLY. INSPECTED THE FUEL SYSTEM AND  
 FOUND THE DAVCO FUEL FILTER LEAKING. CLEANED UP THE HOUSING AND FOUND A  
 SMALL CRACK IN IT. BYPASSED THE FILTER AND STARTED THE TRUCK. WILL  
 CHECK IN THE AM FOR STARTING ISSUES. REMOVED THE BY PASS AND THEN  
 INSTALLED A NEW DAVCO FILTER ASSEMBLY. RAN THE ENGINE THEN CHECKED FOR  
 LEAKS NONE FOUND.

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