

REFERENCE #	YEAR	MAKE/MODEL	SERIAL NUMBER	LICENSE	MILEAGE	TAG
	07	MACK MR600	1M2K197C07M037283		701261/701261	T4147
DEL DATE	FLEET #	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
01JAN07 DD		13:45 02FEB24	022924-362	205.00	MVP	29FEB24
R.O. OPENED	READY	NOTE:				
14:06 28DEC23	08:58 29FEB24					

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
2	21939298	02221045-011-005:	FRAMX OIL FILTER				
1	25503228	02109053-006-000:	MANHU KIT				
1	25502422	02223045-011-068:	FRAMX FILTER				
1	25502421	02223044-002-002:	FRAMX FILTER				
1	25502522	02631042-003-010:	MACKX BELT				
1	21291243	02639042-003-076:	MACKX TENSIONER				
1	23962291	02634042-003-010:	MACKX BELT				
2	20971050	02553053-007-035:	MACKX NUT RETAINER				
6	21254556	02516053-007-038:	MACKX GASKET				
1	25099275	01512053-999-237:	MACKX GASKET				
12	20901575	02559043-004-064:	MACKX STUD				
4	20576436	02549053-007-004:	MACKX NUT RETAINER				
1	20705840	01239043-004-012:	MACKX GASKET				
1	25503428	02539053-008-003:	MACKX TUBE				
1	20706571	01239045-005-013:	MACKX HUB				
1	20706589	01239045-005-013:	MACKX VIBRATION DAMPER				
8	25167342	07119014-003-009:	MACKX INSULATOR				
12	20971050	02553053-007-035:	MACKX NUT RETAINER				
1	20706240	01239053-999-237:	MACKX GASKET				
2	25099902	01512041-002-003:	MACKX GASKET				
1	22015670	02628042-006-002:	MACKX HOUSING				
1	21043853	02229053-007-038:	MACKX GASKET				
6	20706210	01239053-019-001:	MACKX O-RING				
6	20706213	01512044-003-000:	MACKX GASKET				
2	25095339	01122053-007-006:	MACKX FLANGE SCREW				
2	25089732	01144053-007-004:	MACKX LOCK NUT				
4	25164179	07119014-001-102:	MACKX INSULATOR				
1	8235*GAFF12035*	014-003-043:	ARMER MOTOR MOUNT KIT				
1	2191*P554860*	042-007-002:	DNLDS COOLANT FILTER, SPIN-ON				
1	25624059	02179053-019-003:	MACKX O-RING				

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CUSTOMER SIGNATURE

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PARTS AMOUNT	
CORE CHARGES	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

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BUS:		CELL:		SERVICE ADVISOR:		3099 REMAN		MILEAGE		TAG	
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14:06 28DEC23	08:58 29FEB24	
LINE OPCODE	TECH TYPE	HOURS

A CUSTOMER WANTS US TO REMOVE AND REPLACE ENGINE AND TURBO - PARTS SHOULD BE AT OUR SHOP TOMORROW
 02E7ENG CUSTOMER WANTS US TO REMOVE AND REPLACE ENGINE AND TURBO - PARTS SHOULD BE AT OUR SHOP TOMORROW
 1079 CPRM
 9363 CPRM



ENVIR Environmental Fee
 RDTEST ROAD TEST

- 6 313GC5230MX 02374044-003-020:MACKX EUP
- CORE CHARGE C
- 6 21088818 02379044-001-011:MACKX TUBE
- 12 ESC-0338 SCREW 421GC2123M
- 6 25101204 02379044-003-032:MACKX FUEL NOZZLE
- 1 85013282 02331044-003-001:MACKX PUMP, REMAN
- CORE CHARGE C
- 1 745*5002868X* 5611013-009-001:BENDX
- COMPRESSOR
- CORE CHARGE C
- 1 20706028 01239053-007-038:MACKX GASKET
- 1 2104*10893591AM* 023-002-001:DANAX
- INSTALLATION 1552 EP2000
- 1 2104*127760* 4119023-002-026:DANAX TORQUE
- LIMITING CLUTCH BR
- 1 1000*CLA6306VM* 023-002-025:ROADC PILOT
- BEARING (VITON SEAL
- 1 22200630 02622042-004-001:MACKX WATER PUMP
- CORE CHARGE C
- 1 25624063 02179053-007-013:MACKX O-RING
- 6 25501209 02169045-004-004:MACKX HEXAGON
- SCREW
- 2 20706327 01239045-021-004:MACKX VEHICLE
- SPEED SENSOR

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14:06 28DEC23 08:58 29FEB24

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
1	25624058	02179053-019-001:	MACKX	O-RING			
2	20704841	01239053-007-013:	MACKX	O-RING			
1	20870818	02634042-003-010:	MACKX	BELT			
1	20706025	02347044-002-044:	MACKX	FITTING			
2	20704684	01239:	MACKX	ROD END			
1	LP-HOSE	HOSE ASSY					
1	PAI-ECC8594	OIL COOLER KIT					
1	631GC5172BM8X	02551043-004-001:	MACKX	REMAN TURBOCHARGER			
	CORE CHARGE C						
1	20704690	01239053-008-004:	MACKX	ELBOW			
1	LP-1869X4	DOT PUSH ELBOW					
40	10W30	9853*M10W30BULK*					
1	LP-HOSE	HOSE ASSY					
4	10W30	9853*M10W30BULK*					
1	25099901	02349044-001-012:	MACKX	FITTING			
1	LP-HOSE	HOSE ASSY					
-6	313GC5230MX	02374044-003-020:	MACKX	CORE RETURN			
-1	85013282	02331044-003-001:	MACKX	CORE RETURN			
-1	745*5002868X*	5611013-009-001:	BENDX	CORE RETURN			
-1	22200630	02622042-004-001:	MACKX	CORE RETURN			
-1	631GC5172BM8X	02551043-004-001:	MACKX	CORE RETURN			

PARTS: 19605.83 LABOR: 12300.00 OTHER: 118.00 TOTAL LINE A:

1079-m668210-get parts list..

Tech 9363 23Jan24

-Began removing lines and brackets from engine.

-Removed engine fan, fan ring and radiator assy.

Tech 9363 24Jan24

-Continued readying engine for removal.

-Removed valve covers and rocker shafts and installed removal tool.

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		MODEL		SERIAL NUMBER		LICENSE		MILEAGE		TAG			
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01JAN07 DD				13:45 02FEB24		022924-362		205.00		MVP		29FEB24	

R.O. OPENED	READY	NOTE:
14:06 28DEC23	08:58 29FEB24	

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
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-Need to support engine, remove front mount bolts and trans bolts to remove engine.

-Disassembled radiator assembly so CAC can be cleaned.

Tech 9363 25Jan24

-Supported engine, removed bolts and removed engine.

-Began building up new engine.

-Removed heat shield and injector fuel lines.

-Removed exhaust manifold from old engine and cleaned.

-Installed and torqued on new engine with new studs, nuts and gaskets.

-Removed power steering pump from compressor.

-Removed compressor and removed fittings and pipes and cleaned.

-Needs rear adapter removed from old compressor.

Tech 9363 26Jan24

-Continued removing components from engine and installing on new engine.

-Removed water pump and found pitting on housing, recommend replacing, pics in assist.

-Installed new front crankshaft seal, hub and new damper and reinstalled pulley.

Tech 9363 29Jan24

-Removed intake and water manifolds, harness, flywheel and flywheel housing.

-Flywheel needs to be turned.

-Cleaned parts.

-Installed fittings on right side of engine.

-Found new engine is missing spot to install compressor coolant fitting, verified alternate installation location.

-Installed water and intake manifolds on new engine.

-Installed new EUPs.

-Removed old EUPs for core.

Tech 9363 30Jan24

-Swapped oil pan, pickup tube and cover plate to front sump.

-Installed oil filter base/cooler.

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R.O. OPENED		READY	NOTE:				

14:06 28DEC23 08:58 29FEB24

LINE OPCODE TECH TYPE HOURS

LIST NET TOTAL

- Installed oil rotor in filter base.
- Cleaned harness and recovered parts missing loom.
- Installed harness.
- Installed ECU.
- Removed valve covers.
- Installed fuel nozzles.
- Installed EUP fuel lines.
- Installed heat shield.
- Tech 9363 31Jan24
- Removed and replaced clutch and clutch brake.
- Supported trans.
- Removed mount bolts.
- Removed isolators and replaced.
- Lowered trans and installed bolts.
- Began preparing engine for flywheel housing installation and found flywheel housing was cracked and welded.
- Also found crack and loose mounting tab on CAC and loose fittings on A/C condenser which may be the cause for no refrigerant in system during removal.
- Tech 9363 01Feb24
- Installed coolant pump housing and components on front of engine and belts.
- Ordered parts for compressor coolant inlet line relocation.
- Tech 9363 06Feb24
- Installed gear on compressor.
- Installed compressor.
- Cleaned and installed power steering pump.
- Installed air intake and coolant drain lines on compressor.
- Removed oil filter base.
- Removed oil cooler from filter base and replaced.
- Reinstalled oil filter base.
- Raised engine and installed flywheel housing.
- Tightened oil pan bolts.
- Set engine on jackstands.

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LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL

-Installed rear main seal.
 -Installed flywheel.
 -Installed plugs and timing cover on flywheel housing.
 -Installed starter.
 -Installed speed sensor in flywheel housing.
 Tech 9363 07Feb24
 -Set engine in truck and installed bell housing bolts and front mount hardware.
 -Removed lift adapter and installed rocker shafts.
 -Installed clutch bolts.
 -Began installing lines and wiring.
 Tech 9363 08Feb24
 -Continued installing components to engine.
 -Found hole rubbed in dipstick tube.
 -Assembled and installed new dipstick tube.
 -Assembled and installed fill tube.
 -Installed shifter.
 -Removed and replaced fuel filters.
 -Filled and installed oil filters.
 -Added oil to engine, need to recheck oil level after engine is ran.

Tech 9363 09Feb24
 -Connected clutch linkage.
 -Installed ground wiring to engine block.
 -Assembled cooling package and installed in truck.
 -Began connecting lines and wiring.
 Tech 9363 15Feb24
 -Assembled and installed turbo.
 -Pre-oiled turbo.
 -Installed lines and piping to turbo.
 -Needs some coolant and A/C lines installed, fan and ring, fluids except engine oil, programming and clutch adjustment.

Tech 1024
 Programmed unit pump calibration codes to EECU ok

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LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL

Tech 9363 16Feb24

- Installed coolant and A/C lines.
- Installed fan and fan ring.
- Filled power steering reservoir.
- Filled with coolant and pressure tested.
- Tightened lines to fix 2 leaks, no further coolant leaks found.
- Tested and filled A/C system, ok.
- Will need coolant, power steering and engine oil rechecked after running, as well as clutch adjustment.
- Attempted to start truck.
- Truck had power initially but went off when i tried to start.
- Truck had to be jumped to get it to start before, so put charger on batteries for awhile and then used jump box to try to start again, no change.
- Replaced batteries and cleaned cables, no change.
- Tested voltage at batteries, ~13v.
- Checked voltage at both sides of battery cut off switch, ~13v.
- Checked voltage at starter, ~4v.
- Removed and cleaned cables on switch.
- Rechecked voltage at starter, ~13v.
- Sometimes there is power to brake lights but it will go off when you try to start truck.
- Needs more diag.

Tech 9363 19Feb24

- Continued cleaning and testing and eventually found it was dirty terminal/wires on starter positive.
- Primed truck and it started.
- Found fuel leak at fuel inlet fitting on side of block.
- Attempted to stop leak and could not, will need new fitting.
- Adjusted clutch.
- Checked and topped off power steering, coolant and engine oil.
- Trans is leaking but full of fluid for now.
- Left grille off so cab can be raised.
- Cleaned bay.

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LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
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-Readied old engine for core return.

-Just needs fuel leak repaired.

Tech 9363 21Feb24

-Removed and replaced inlet fuel fitting on engine block.

-Ran engine and observed for leaks.

-Inlet fitting is no longer leaking but found additional fuel leaks at lines on secondary fuel filter mounted to frame.

-Both lines are leaking at where they connected to filter base, one line comes from fuel pump and the other goes from filter base to fitting on head, neither line was removed from filter base.

-Will need both lines to correct leak, no other leaks were found at this time.

TECH 8395 2-22-24

REMOVED LEAKING FUEL LINES FROM PUMP TO FILTER HOUSING. NEED NEW ONES MADE UP.

Tech 9363 22Feb24

Installed new fuel lines.

-Ran truck and inspected for leaks, no engine leaks found at this time.

B** ADDITIONAL PARTS NO LABOR

02EWP ADDITIONAL PARTS NO LABOR

8395 CPRM

1 PAI-805025 FLYWHEEL HOUSING

1 1000*CON1023* 001-001-062:ROADC CONDENSER

1 21331433 02651041-004-021:MACKX CHARGE AIR

COOLER

3 20706301 01239053-007-005:MACKX FLANGE SCREW

3 20704754 01239053-007-008:MACKX WASHER

1 25122313 02215045-010-019:MACKX GUIDE

1 20706112 01239053-007-102:MACKX SLEEVE

1 25624102 02179053-007-013:MACKX O-RING

1 25500575 01512053-007-013:MACKX O-RING

10 200-26093-50 50/50 RED ANTIFREEZE COOLANT

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6 MAG00900 DEXTRON III ATF FLUID QUART

3 5747*31S950* BATT_GP31S COMMERCIAL

CORE CHARGE C

-3 5747*31S950* CORE RETURN

PARTS: 4017.13 LABOR: 0.00 OTHER: 0.00 TOTAL LIN

TECH 8395 2-22-24

REMOVED LEAKING FUEL LINES FROM PUMP TO FILTER HOUSING. NEED NEW
ONES MADE UP.

MACK

ESTIMATE: 0.00

31JAN24 20:39 SA: 3699

CONTACT:



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PLEASE PAY THIS AMOUNT	39919.61