



Prepared For:

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2016 LR613

Description

ORDER/CUSTOMER/VEHICLE INFORMATION

INITIAL REGISTRATION LOCATION, UNITED STATES, IOWA
LANGUAGE, ENGLISH
IDLE EMISSION CERTIFICATION, IDLE EMISSION CERTIFICATION - CARB 08
TYPE OF SERVICE, MUNICIPAL
VEHICLE APPLICATION CLASS, HEAVY VOCATIONAL - Unlimited operation on concrete, asphalt, or maintained gravel/packed dirt with a maximum 3% grade; limited operation on unmaintained surfaces with maximum 5% grade; limited operation on concrete, asphalt, or maintained gravel/packed dirt with maximum 10% grade. (3 AXLES) 78,000 lbs (35,281 kg) MAX GVW. (4 AXLES) 80,000 lbs (36,288 kg) MAX GVW.
CARRIER APPLICATION, NOT AVAILABLE
VEHICLE TYPE, STRAIGHT TRUCK WITHOUT TRAILER
VEHICLE USE AND BODY/TRAILER TYPE, SELECT AN APPLICATION
FILE STATUS, QUOTE
PRICE BOOK LEVEL, 2016B PRICE BOOK LEVEL
PRODUCT TYPE, PRODUCT TYPE - OL64R TRUCK
PRODUCT CLASS, PRODUCT CLASS 29

BVS/WHEELBASE/PLATFORM

CHASSIS (BASE MODEL), LR603 6-WHEEL TRUCK
DROP FRAME, W/O DROP FRAME
FRAME RAILS, 13.375" x 3.25" x .375" (340 x 83 x 10mm) STEEL Section Modulus 23.49 cu in/RBM 2,818,800 in lbs per rail.
WHEELBASE, 246" (6248 mm) WB 251" CA (6375 mm)
PLATFORM, 318" LP (8179 mm) 67" AF (1694 mm) USED WITH 246" WB
FRAME REINFORCEMENT - INSIDE, WITHOUT FRAME REINFORCEMENT (INSIDE CHANNEL)

ENGINE/TRANSMISSION/CLUTCH

ENGINE, MACK MP7-325M 325 HP @1500-1900 RPM (PEAK) 1200 LB FT. MAX TORQUE @ 1100-1350 RPM
TRANSMISSION, 6 SPEED AUTOMATIC, ALLISON 3000-RDS-6 (3.49/0.65) RUGGED DUTY SERIES GEN 5 W/PROGNOSTICS,
W/PTO PROVISION INCLUDES TRANSMISSION COOLER, EXTERNAL OIL COOLER, INTERNAL FILTER, AND OIL LEVEL
SENSOR NOTE: ON/OFF HIGHWAY 80,000 LBS GVW MAX ON/OFF HIGHWAY 80,000 LBS GCW MAX
MIXER/REFUSE 62,000 LBS GVW MAX

EXHAUST/EMISSIONS

DPF, CLEARTECH VV DPF VERTICAL LH SIDE BACK OF CAB W/SCR VERT RH SIDE BOC
EXHAUST AFTER-TREATMENT SYSTEM, EXHAUST AFTER-TREATMENT SYSTEM DIESEL PARTIC FILTER CERAMIC
PASSIVE REGEN
DPF SMART SWITCH, W/O DPF REGENERATION CONTROL SWITCH
EXHAUST, DPF, OUTBOARD, SINGLE (R/S) VERTICAL STRAIGHT EXHAUST STACK PLAIN END, SIDE OUTLET DIFFUSER

ENGINE EQUIPMENT

PRE-CLEANER (DRY TYPE CLEANER)
W/O AIR INTAKE HEIGHT OPTION
ALTERNATOR, LEECE NEVILLE 12V 200A
BATTERIES, (3) MACK 12V 650/1950 CCA THREADED STUD TYPE TERMINALS
TO -34 DEGREES F (-37 DEGREES C)
MACK COOLANT CONDITIONER
COOLING PERFORMANCE, WITH AUXILIARY COOLING
ENGINE BRAKE, W/O ENGINE BRAKE

Description

ENGINE BLOCK HEATER, 120V 1500 WATT ENGINE BLOCK HEATER
FAN DRIVE, BEHR FAN AND ELECTRONIC MODULATING FAN DRIVE
FUEL-WATER SEPARATOR, MACK W/MANUAL DRAIN VALVE (INTEGRAL W/PRIMARY FUEL FILTER)
OIL PAN, OIL PAN
W/O ENGINE COLD START AID
STARTER, 12 VOLT DELCO MTHD 39
TETHER DEVICE, PLASTIC COATED CABLE, MOUNTED FRONT OF EACH BATTERY BOX LENGTH TO ALLOW COVER TO
SET ON GROUND

CLUTCH/TRANS EQUIPMENT/DRIVELINES

SYNTHETIC LUBRICANT - TRANSMISSION, TRANSYND SYNTHETIC LUBE FOR ALLISON TRANS
VOCATIONAL PACKAGE - ALLISON, ALLISON GEN 5 PACKAGE #183 (AG) REFUSE WITH AUTO NEUTRAL, TWO
SELECTORS, W/O GEAR SPEED LIMITS BOTH SIDES
W/O DRIVESHAFT GUARD
DRIVELINE - MAIN, MERITOR 176 MXL "XTENDED LUBE"
DRIVELINE - INTERAXLE, MERITOR 17 MXL "XTENDED LUBE"

CAB (A thru G)

AIR CONDITIONING, EXTENDED CAB INTEGRAL A/C
AIR RESTRICTION MONITOR (INTAKE), GRADUATED LOCK UP (AIR CLEANER INTAKE MOUNTED)
CAB CONFIGURATIONS, LH & RH DRIVE
CAB LIFT/TILT, MANUAL TILT PUMP
CAB - CORNER PROTECTION, W/O CAB CORNER PROTECTION, FRONT
CERTIFIED WEIGHT
ENGINE RUNNING ACTIVATED
LH FRONT HINGED & RH FRONT HINGED
ENGINE SHUTOFF, KEY TYPE
W/O EXHAUST PYROMETER GAUGE
GAUGES, ENGLISH DISPLAY
GAUGE, ELECTRONIC SPEEDOMETER/ODOMETER PROXIMITY PICK-UP, AND MAGNETIC SENSOR
TRANSMISSION GAUGE AND TRANS. OIL HIGH TEMPERATURE LIGHT
GEAR SHIFT, WITH NEUTRAL-TO-RANGE INHIBIT
GLASS - CAB WINDOW, TINTED WINDSHIELD SIDE AND REAR WINDOWS
GRILLE, BLACK

CAB (H thru R)

HORN - AIR, (1) TWIN-UNDER CAB TRUMPET W/DUAL LANYARD CONTROL
HORN - ELECTRIC, SINGLE TONE
CHASSIS KEYED AT RANDOM - 2 KEYS
MARKER / DIRECTIONAL SIGNAL, FRONT AND SIDE DIRECTION IND & MARKER, LED TYPE
MIRRORS - EXTERIOR, ELECTRIC HEATED & OPERATED, WITH CONVEX MIRRORS, WITHOUT MEMORY
MIRRORS - PROXIMITY, W/O OPTIONAL VISIBILITY MIRROR
WITHOUT PERSONALIZED NAME PLATE
AM/FM PREMIUM STEREO, CD-PLAYER, MP3, WEATHERBAND, HANDSFREE INTERFACE, BLUETOOTH
RADIO SHUTOFF, W/O AUTO RADIO SHUTOFF OPTION
TWO WRAP AROUND HIGH VISIBILITY CAB CORNER WINDOWS

CAB (S thru Z)

SEAT - DRIVER, (2) BOSTROM TALLADEGA 910 (MID-BACK) AIR SUSPENSION
SEAT - RIDER, OMIT RIDER SEAT

Description

SEAT COVERING, ALL CLOTH, BLACK, DRIVER SEATS
LAP & SHOULDER BELTS (2) FOR DRIVER
DRIVER'S SEAT ONLY
W/O OPTIONAL ROOF VENT
(2) STEERING COLUMN, ADJUSTABLE TILT TELESCOPE
STEERING WHEEL, (2) TWO SPOKE 16" - URETHANE GRIP BLACK SPOKES
W/O REAR WALL STORAGE UNIT
SUN VISOR - BOTH SIDES
TURN SIGNAL SWITCH, SELF CANCELLING TURN SIGNALS
WINDSHIELD PROTECTOR, FURNISH WINDSHIELD PROTECTOR
WINDSHIELD WIPERS, 2 SPEED ELECTRIC MOTOR W/INTERMITTENT FEATURE

FRAME EQUIPMENT/FUEL TANKS

BUMPER - FRONT, PAINTED STEEL LOW PROFILE FRONT BUMPER 65"/1651 mm BBC
CROSSMEMBERS, STEEL 1/2" PL BOLTED BOC & INTERMDT 1/8" BELOW RAIL, 1ST XMBR BOC RR 38.17" FROM AL LINE
CROSSMEMBER (BEHIND REAR AXLE), W/O OPTIONAL CROSSMEMBERS BEHIND REAR AXLE/BOGIE
W/O FRONT FRAME EXTENSION
WITHOUT SKID PLATE
TOWING DEVICE - FRONT, TOW PIN
TOWING DEVICE - REAR, HOOKS (FRAME MOUNTED)
FUEL TANK - LH, 50 GALLON (190 L) STEEL, 26"x24" DIAMETER STEEL
FUEL TANK - RH, 70 GALLON (265 L) STEEL, 26"x24" RECTANGULAR
FUEL TANKS - BRIGHT FINISH, W/O SPECIAL FINISH FUEL TANK
6.6 GALLON (25 L) 22" DIAMETER TANK RIGHT SIDE MTD
FUEL DRAW/RETURN SYSTEM, ALL HOSE
FOR BOTH FUEL TANK(S) INCLUDES SUMP
RELOCATE FUEL TANK, LOCATE RH TANK AS FAR FORWARD AS POSSIBLE, 5" BELOW TOP OF RAIL

FRONT AXLE/EQUIPMENT/TIRES

FRONT AXLES, 20000# (9072kg) MACK FXL20 WIDE PIVOT CENTER STRAIGHT SPINDLE/UNITIZED BEARINGS
TIRES BRAND/TYPE - FRONT, BRIDGESTONE - TUBELESS RADIAL PLY, (2) 315/80R22.5 20 L M860A (ALL POS)
WHEELS - FRONT, STEEL DISC (10-HOLE)
(2) 22.5x9.0 (228 mm) HAYES LEMMERZ 10-HOLE HUB PILOTTED (11 1/4"/286mm BC)(FIVE HAND HOLE)(6.42" INSET)
WHEELS - POLISHED (FRONT), WITHOUT FRONT WHEEL POLISH
BRAKES - FRONT, BENDIX ES165-06D, 16.5" x 6" CAST SPIDER
BRAKE DRUMS - FRONT, CAST OUTBOARD MOUNTED
DUST SHIELDS - FRONT BRAKE, OMIT
HUBS - FRONT, FERROUS
SHOCK ABSORBERS, FRONT
SLACK ADJUSTERS - FRONT, HALDEX - AUTOMATIC
SPRINGS - FRONT, MACK TAPERLEAF 20000# (9072kg) GROUND LOAD RATING
STATIC LOAD CUSHIONS
STEERING, M100P PLUS RIGHT SIDE ASSIST CYLINDER
W/O WHEEL LUGWRENCH

REAR AXLE/EQUIPMENT/TIRES/RATIOS

REAR AXLE/SUSPENSION, 40000# (18144kg) MERITOR MT-40-14X4D HYPOID (LOW ENTRY), MT-40-14XD MACK mRIDE 40
PARABOLIC 2-LEAF, 40000# NORMAL STIFFNESS
4S/4M SYSTEM REAR WHEEL END SENSORS

Description

TIRES BRAND/TYPE - REAR, BRIDGESTONE - TUBELESS RADIAL PLY, (8) 11R22.5 14 G M726EL (TRACTION)
CARRIER/RATIO - REAR AXLE, MALLEABLE HOUSING, 5.29 RATIO
WHEELS - REAR, STEEL DISC (10 HOLE)
(8) 22.5x8.25 (210 mm) HAYES LEMMERZ 10-HOLE HUB PILOTED (11 1/4"/286 mm BC)(TWO HAND HOLE)
BRAKES - REAR, BENDIX ES165-07D, 16.5x7 CAST SPIDER
BRAKE DIAPHRAGMS, W/O BRAKE DIAPHRAGM OPTION
BRAKE DRUMS - REAR, CAST OUTBOARD MOUNTED
DUST SHIELDS - REAR BRAKE, OMIT
HUBS - REAR, CONMET IRON PRESET REAR HUB W/INTEGRATED SPINDLE NUT
PREMIUM HUB OIL REAR SEAL
POWER DIVIDER LOCKOUT W/WARNING LIGHT AND BUZZER (INCLUDES IN CAB MANUAL AIR VALVE)
HIGH MOUNT REAR BRAKE CHAMBERS (REAR REAR AXLE ONLY)
SHOCK ABSORBERS - (4), OUTBOARD MOUNTED ON FORWARD AND REAR AXLES EACH SIDE
W/O SHOCK INSULATORS
SLACK ADJUSTERS - REAR, HALDEX - AUTOMATIC
SUSPENSION - AXLE SPACING, 54" AXLE SPACING (BOGIE WHEELBASE)
W/O ANTI-SPRINGS
SPRING BRAKE CHAMBERS - QUANTITY, (4) CHAMBERS
SPRING BRAKE CHAMBERS - VENDOR, MGM MODEL TR-T (TAMPER RESISTANT)
REAR SPRING BRAKE CHAMBERS 30/30 TYPE
SYNTHETIC LUBRICANT - REAR AXLE, FACTORY OPTION LUBE REAR AXLE
V-ROD FOR mRIDE SUSPENSION

AIR/BRAKE

AIR LINES - BODYBUILDER, W/O BODYBUILDER AIR LINES
AIR DRYER, MERITOR/WABCO HEATED AIR DRYER, 1800 W/COALESCING OIL FILTER
W/O RELOCATED AIR RESERVOIRS
AIR RESERVOIRS, STEEL
ANTI-LOCK BRAKE SYSTEM, BENDIX ABS
AIR CONTROL VALVES - VENDOR, BENDIX SWITCHES AND VALVES WHERE POSSIBLE
DRAIN VALVES, AUTOMATIC DRAIN VALVE, HEATED ON SUPPLY TANK, MANUAL (PETCOCK) ON ALL OTHER TANKS

ELECTRICAL

BACK-UP ALARM, ECCO BACK-UP ALARM SA917 (AMBIENT NOISE SENSITIVE) 87-112 db
BATTERY BOX COVERS, MOLDED PLASTIC
BATTERY BOX - MOUNTING, SINGLE BOX 3 BATTERY MAX. PERP TO FRAME 11" FROM NTOF
FLAMING RIVER BIG SWITCH WIRED ON POSITIVE SIDE
BATTERY SWITCH WARNING LIGHT, FURNISH ON OR NEAR BATTERY BOX (LIGHT ON IN RUN POSITION)
CAB WIRING & DASH CONTROL, W/O ROOF MTD LAMP OPTION
COMPUTER AND 2-WAY RADIO DEDICATED CIRCUIT
ELECTRIC CIRCUIT PROTECTION PACKAGE, 12 VOLT W/CIRCUIT BREAKERS (HEADLAMP CIRCUIT: SAE TYPE I; ALL OTHER CIRCUITS SAE TYPE II) NEGATIVE GROUND SYSTEM
WATERPROOF ELECTRICAL CONNECTIONS SPRAYED W/PROTECTIVE COATING
CONTROL LINK II REFUSE BODYBUILDER ELECTRICAL CONNECTION SYSTEM
HEADLIGHTS, INCANDESCENT - SINGLE RECTANGLE W/O PROTECTOR
REAR LIGHTING, OMIT TAIL LIGHTS
PROVISION FOR LOCAL INSTALLATION OF STROBE LIGHTS

PAINT

Description

PAINT - CAB EXTERIOR, SINGLE COLOR, PENNDOT YELLOW [PPG: 750206]
PAINT - CAB, URETHANE BASE COAT W/O CLEAR COAT
PAINT - CHASSIS RUNNING GEAR, MACK BLACK (URETHANE)
PAINT - BUMPER, SAME AS CHASSIS RUNNING GEAR
PAINT - FUEL TANK, SAME AS CHASSIS RUNNING GEAR
PAINT - FRONT SPOKE WHEELS, WITHOUT OPTIONAL SPOKE WHEEL PAINT
WITHOUT OPTIONAL SPOKE WHEEL PAINT
PRE-FINISHED POWDER COAT WHITE
PRE-FINISHED POWDER COAT WHITE

PAINT PROCESS CODES

SAME COLOR AS CHASSIS RUNNING GEAR (5ZB-A1X)
CHASSIS RUNNING GEAR - STD COLOR (MACK BLACK) (6AB-Z1X)
SAME COLOR AS CHASSIS RUNNING GEAR (7HB-A1X)
W/O CUSTOM PAINT FOR HUB&DRUM/SPOKES (5YB-Z1X)
W/O CUSTOM PAINTED FRONT/REAR RIM/WHEEL (6BB-Z1X)

PTO/SPECIALTY/ADDITIONAL EQUIPMENT

PTO - CRANKSHAFT ADAPTER, FRONT END PTO-1350 SER FLANGE
PTO - REAR ENGINE (REPTO), WITHOUT REAR ENGINE POWER TAKE OFF
HYDRAULIC PUMP, FURNISH PUMP MTG PROVISIONS - INCLUDE WIRING, SWITCHES, AND INDICATORS AS REQUIRED
FURNISH TC421 FOR USE W/ALLISON 3000 SERIES TRANSMISSION
W/O WORK BRAKE

V-MAC IV PROGRAMMABLE PARAMETERS

CUSTOMER VEHICLE LIMITING SPEED (MPH) 65 mph
PEDAL ROAD SPEED LIMITER (MPH) 65 mph
LGVLS FEATURE ACTIVATION Omit
LOWER GEAR VEHICLE LIMITING SPEED (MPH) 00 mph
SOFT RSL Omit
PDLO ENGAGED VLS FEATURE Furnish
PDLO ENGAGED VEHICLE LIMITING SPEED 25 rpm
CRUISE CONTROL SETTINGS WITH ALLISON TRANS
CRUISE CONTROL MAX SET SPEED (MPH) 65 mph
CRUISE CONTROL MIN SET SPEED (MPH) 20 mph
CRUISE CONTROL AUTORESUME W/CLUTCH Omit
CRUISE'N BRAKE ENGAGEMENT DELAY (MPH) 0 mph
ENGINE OVERSPEED COMPANY LIMIT (RPM) 2200 rpm
FUELED ENGINE OVERSPEED COMPANY LIMIT (RPM) 2100 rpm
VEHICLE OVERSPEED COMPANY LIMIT (MPH) 75 mph
FUELED VEHICLE OVERSPEED COMPANY LIMIT (MPH) 70 mph
IDLE LOGGING DELAY (MIN) 2
Monthly Trip Summary
PERIODIC TRIP HOUR OF DAY 0 (disable)
PERIODIC TRIP DAY OF WEEK 0 (disable)
PERIODIC TRIP DAY OF MONTH 1
EHT MAX ENGINE SET SPEED (RPM)
2100 rpm
EHT MIN ENGINE SET SPEED (RPM) 700 rpm

Description

EHT VEHICLE SPEED RANGE LIMIT (MPH) 10 mph
EHT RAMP RATE (RPM/Sec)
EHT SINGLE SPEED CONTROL ACTIVATION Omit
EHT SINGLE SPEED CONTROL SET SPEED (RPM) 0000 rpm
EHT JUMP-TO-MIN SET SPEED Omit
EHT HOLD TO NEAREST RPM 50 rpm
EHT ACCEL-DECEL BUMP-UP RPM 50 rpm
EHT ACCEL-DECEL BUMP-DOWN RPM 50 rpm
ENGINE PROTECTION - OIL PRESSURE SHUTDOWN Furnish
ENGINE PROTECTION - COOLANT LEVEL SHUTDOWN Omit
ENGINE PROTECTION - COOLANT TEMP SHUTDOWN Furnish
ENGINE PROTECTION - ENGINE OIL TEMP SHUTDOWN Furnish
ENGINE PROTECTION TRANS OIL TEMP SHUTDOWN Furnish
ALLOW FAN OVERRIDE WHEN PARKED Omit
FAN ACTIVATION WITH PTO Omit
GOVERNOR TYPE Min-Max Governor
ENGINE HIGH IDLE SPEED IF STOPPED 0000
ENGINE LOW IDLE SET SPEED (RPM) 700 rpm
DRIVER LOW IDLE ADJUST FEATURE ACTIVATION Omit
SMART IDLE FEATURE ACTIVATION Omit
SMART IDLE ELEVATED IDLE RPM TIME (MINS) 10
IDLE S/D ABS TAMPER CHECK Omit
IDLE COOLDOWN FEATURE ACTIVATION Omit
IDLE SHUTDOWN FEATURE ACTIVATION Omit
IDLE SHUTDOWN TIME (MINS) 10
IDLE SHUTDOWN WARNING TIME (SECS) 30
IDLE SHUTDOWN WARM-UP TEMPERATURE (DEG F) 100
IDLE SHUTDOWN WARM-UP TIMER (MINS) 5
IDLE S/D OVERRIDE W/EHT Omit
IDLE S/D OVERRIDE W/PTO Furnish
IDLE S/D OVERRIDE W/ENGINE LOAD Furnish
IDLE S/D OVERRIDE % ENGINE LOAD THRESHOLD 20
IDLE S/D CONTROL W/O Idle Shutdown
IDLE S/D OVERRIDE LOWER TEMP. THRESHOLD (DEG F) 60
IDLE S/D OVERRIDE UPPER TEMP. THRESHOLD (DEG F) 80
MAINTENANCE MONITOR FEATURE ACTIVATION Furnish
PTO 1 MAX ENGINE SET SPEED (RPM) 2100 rpm
PTO 1 MIN ENGINE SET SPEED (RPM) 600 rpm
PTO 1 VEHICLE SPEED RANGE LIMIT (MPH) 10 mph
PTO 1 RAMP RATE (RPM/Sec) 100
PTO 1 SINGLE SPEED CONTROL ACTIVATION Omit
PTO 1 SINGLE SPEED CONTROL SET SPEED (RPM) 1000 rpm
PTO 1 SINGLE SPEED CONTROL AUTOSET Omit
PTO 1 JUMP-TO-MIN SET SPEED Omit
PTO 1 VEHICLE LIMITING SPEED (MPH) 60 mph
PTO 1 HOLD TO NEAREST RPM 50 rpm

Description

PTO 1 ACCEL-DECEL BUMP-UP RPM 50 rpm
PTO 1 ACCEL-DECEL BUMP-DOWN RPM 50 rpm
PTO 2 MAX ENGINE SET SPEED (RPM) 2100 rpm
PTO 2 MIN ENGINE SET SPEED (RPM) 600 rpm
PTO 2 VEHICLE SPEED RANGE LIMIT (MPH) 10 mph
PTO 2 RAMP RATE (RPM/Sec) 100
PTO 2 SINGLE SPEED CONTROL ACTIVATION Omit
PTO 2 SINGLE SPEED CONTROL SET SPEED (RPM) 1000 rpm
PTO 2 SINGLE SPEED CONTROL AUTOSET Omit
PTO 2 JUMP-TO-MIN SET SPEED Omit
PTO 2 VEHICLE LIMITING SPEED (MPH) 60 mph
PTO 2 HOLD TO NEAREST RPM 50 rpm
PTO 2 ACCEL-DECEL BUMP-UP RPM
PTO 2 ACCEL-DECEL BUMP-DOWN RPM 50 rpm
SPEED SENSOR TAMPER DETECTION SYSTEM ACTIVATION Furnish
SPEED SENSOR TAMPER DETECTION TORQUE LIMIT (%) 50

DEALER INFORMATION

ENGINE WARRANTY, 2YR/250,000 MILES ENGINE WARRANTY US10
PILOT INSPECTION, WITHOUT PILOT INSPECTION
STANDARD SHIPPING INSTRUCTIONS