

CCO Form: GS13  
Approved: 10/05 (BDG)  
Revised: 02/10 (AR)  
Modified:

**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
THIRD SUPPLEMENTAL AGREEMENT**

THIS THIRD SUPPLEMENTAL AGREEMENT is entered into by the Missouri Highways and Transportation Commission (hereinafter, "Commission") and **F anc C Truck Sales and Service Incorporated** (hereinafter, "Contractor").

WITNESSETH:

WHEREAS, the Commission and the Contractor previously entered into a **Extra Heavy Duty Tandem Axle Dump Truck Agreement** on January 5, 2009 (hereinafter, "Original Agreement"); and

WHEREAS, the Original Agreement commenced on January 5, 2009 and continued through December 30, 2009; and

WHEREAS, Paragraph 12 of the Original Agreement provided for the extension of the Original Agreement for four additional one-year periods; and

WHEREAS, the parties wish to extend the duration of the Original Agreement as provided herein.

NOW, THEREFORE, in consideration of the mutual covenants, promises and representations in this Third Supplemental Agreement, the parties agree as follows:

(1) EXTENSION OF ORIGINAL AGREEMENT: The parties hereby agree to extend the duration of the Original Agreement as allowed in Paragraph 12 of the Original Agreement from January 1, 2012 through December 31, 2012 under the same terms and conditions contained in the Original Agreement.

(2) ORIGINAL AGREEMENT: Except as modified, amended or supplemented by this Third Supplemental Agreement, the terms of the Original Agreement shall remain in full force and effect and shall extend to this Third Supplemental Agreement.

*[Remainder of Page Intentionally Left Blank]*

IN WITNESS WHEREOF, the parties have entered into this Third Supplemental Agreement on the date last written below.

Executed by the Contractor this 18 day of Jan, 2012.

Executed by the Commission this 31 day of January, 2012

MISSOURI HIGHWAYS AND  
TRANSPORTATION COMMISSION

Roberta Buckler

Title Chief Financial Officer

Attest:

Pamella

Secretary to the Commission

Approved as to Form:

Roberta Buckler

Commission Counsel

CONTRACTOR

By [Signature]

Title [Signature]

Attest:

By Maha Roman

Title Sales Representative

Approved as to Form:

By \_\_\_\_\_

Title \_\_\_\_\_

F & C Truck Sales & Service, Inc.  
 2350 Chouteau Ave.  
 St. Louis, MO 63103

(314) 771-3180  
 (800) 467-8910  
 (314) 771-1209 (FAX)



Truck Sales & Service, Inc.

January 3, 2012

**2012 Calendar Year Mack Truck Extra Heavy Duty Contract Extension: RFP #6-081016**

Make/ Model /2013 Model Year / Mack / Granite 6X4 Tandem Axle Truck

Base contract for Cab / Chassis with MP7 405 hp and 4500 Allison Automatic	\$110,000
Base contract cab / chassis including Viking Civies 15' corten body	\$159,912

Selected Mack truck optional items:

1. MP7 rated 365 hp, 1340 lb ft torque	Deduct	\$670
2. MP7 rated 325 hp, 1200 lb ft torque w/ 3000 Allison Auto	Deduct	\$6,004
3. Manual Transmission RTO-16908LL w/ MP7 405 hp and required oil cooler	Deduct	\$8,921
4. Manual Transmission RTO-14908LL w/MP7 365 hp. Cooler is not included. It is recommended but not required.	Deduct	\$9,574
5. Cummins ISL 345 hp with 3000 Allison Auto, HMX 400, crank windows, and no traction control	Deduct	\$17,200
Transmission Cooler if needed for manual transmission	Add	\$354
6. Omit Mack engine brake	Deduct	\$235
7. Omit Bendix Automatic Traction Control (ATC)	Deduct	\$321
8. Omit Trailer package (2 air lines and 7 wire cable to rear of chassis)	Deduct	\$419
9. Meritor 40,000 lb rear axle with Haulmax HMX 400 40,000lb rear beam suspension	Add	\$1,160
10. A) Locking interwheel differentials, driver controlled without Auto Traction Control. Front or rear axle (one axle only)	Add	\$212
B) Locking interwheel differentials, driver controlled without Auto Traction Control. Front and rear axle (both axles)	Add	\$744
11. Mack FXL 20 20,000 lb rated front axle	Add	\$980
12. Right hand heated fender mounted mirror	Add	\$118
13. Right hand motorized mirror with RH and LH heated with integral convex	Add	\$315
14. Right and left hand motorized mirror RH and LH heated with integral convex	Add	\$419
15. Omit right hand power window and RH power door lock	Deduct	\$231
16. Passenger mid back Bostrom 915 air seat in lieu of fixed seat	Add	\$211



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**2011 Calendar Year Mack Truck Extra Heavy Duty Contract Extension: RFP #6-081016**  
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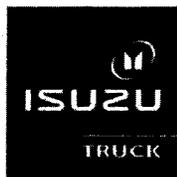
All other Mack truck factory installed optional items available at MSRP less 35%

Driver and Mechanic training are included for individual districts. A starter 55 gallon drum of DEF fluid is included with any MO DOT district's initial purchase of 2010 EPA compliant Mack trucks.

The following three pages are from Viking-Cives Midwest and detail the base body contract quotation and common options.

**CONTACT:**

**Mark Roman**  
**F & C Truck Sales & Service, Inc.**  
**314-258-3333**  
**[mroman@fandctrucks.com](mailto:mroman@fandctrucks.com)**



**GMC.**



Viking-Cives Midwest, Inc.  
 22956 Hwy 61 - PO Box 295  
 Morley, MO  
 Phone: 573-262-3545  
 Fax: 573-262-3540  
 www.vikingcivesmidwest.com

**QUOTATION**

Quote ID: 2287

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Customer: F & C Truck Sales  
 Contact: Roman, Mark  
 Address: 2350 Chateau Ave  
 St. Louis MO 63103

Phone: 314-771-3180  
 Fax: 314-771-1209

Quote Number: 2287  
 Quote Date: 12/13/2011  
 Quote valid until: 12/25/2012  
 FOB: Morley, MO  
 Lead Time:  
 Salesperson: Steve Rider

QUANTITY	PART NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
1	D2 RFP base	<p>MoDOT 50,600 GVW Tandem Truck Equipment package including:            Body Features:            15' Western style with horizontal side bracing            Dump body sides are sloped from 42" at the front to 36" at the rear to match the tailgate height.            Tailgate is 36" high, double acting, air tailgate latch with manual override, and 3/8" Hi tensile keeper chains            Body built from Corten steel with 70,000 # tensile strength, Material thickness; 3/16" one piece floor, tail gate, and upper rail, 1/4" thick long sills 10-gauge sides and front,            87.5" x 18" weld on 10 gauge cab shield with integral tarp holder            Aero 550 electric operated load cover with aluminum arms and asphalt tarp. The tarp mechanism also includes a Aero automatic latching mechanism            Whelen LED DOT-3 safety lighting system with; (2) cab shield mounted 360 degree visibility amber lights and (2) rear mounted amber lights recessed in the dump body rear corner post            LED body lights with one piece wiring harness            Two 2-rung pull-out ladders with (2) aligning grab handles located between the rear tandems            10" bolt-on asphalt lip            Epoxy primer and MoDOT Yellow paint, conspicuity striping            Mailhot CS-140-5.5-3DA double acting cylinder with nitrated sleeves            Dual swing down body props</p> <p>Hydraulic and electronic features:            Certified Power Freedom Control System with:            CAN bus technology -            All valves electronically proportional and in weatherproof enclosure            Multiple "joystick", console with heads-up display of operator's functions            Power up and down valve for hoist            Power up and down valve for front plow            Power left and right valve for plow reversing            One piece manifold valve for conveyor, spinner, pre-wet and anti-ice            Crankshaft driven Sauer Danfoss load sense pump            Freedom ACS ground speed spreader control system            Pre-wet pumping/spraying system with flow meter feedback sensor - less tanks            Body raised indicator light ACS console with body mounted proximity switch to activate            40-gallon oil reservoir mounted above the truck frame rails on the driver's side of the truck            Valve enclosure mounted above truck frame rails on the passenger side of</p>	\$49,912.00	\$49,912.00



Viking-Cives Midwest, Inc.  
 22956 Hwy 61 - PO Box 295  
 Morley, MO  
 Phone: 573-262-3545  
 Fax: 573-262-3540

**QUOTATION**

Quote ID: 2287

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www.vikingcivesmidwest.com

QUANTITY	PART NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
		the truck Hydraulic lines and cushion valve to front for plow lift and angle Hydraulic lines to street side rear rub rail for salt spreader Hydraulic lines to curb side rear rub rail for auxiliary use All hydraulic lines to the rear transition through a bulkhead mount with swivels at the dump body hinge Quick disconnects with dust covers on all hose ends  Accessories: MoDOT designed front bumper with 3" x 10" SA lift cylinder for snow plow Front plow lights attached to aluminum fender brackets Weatherproof 24" underbody tool box mounted on curb side front and rear mud flaps 3/4" steel pintle plate with a 45-ton Premier 100NS pintle hitch Back up alarm Four welded-on winch binders with 10' nylon straps for securing spreader Rear mount LED work light for spreader spinner visibility		
1	D201	Mack Truck to provide , body builders plug, snow plow light provision, in dash switches, three air solenoids, air lines to the rear with glad hands and 7 pole ABS trailer plug Parallel lift front plate hitch in lieu of standard MoDOT hitch. This plate hitch can be used with an adapted MoDOT hitch to attach to a standard MoDOT plow or a Parallel lift plow. The parallel lift plow is capable of adjustable down pressure for hard pack snow removal.	\$1,381.00	\$1,381.00
1	D202	Viking PRR39R14 "J" plow with three section trip edge, power reverse and MoDOT swivel - to be used with standard MODOT hitch	\$8,165.00	\$8,165.00
1	D203	Viking PRR39R14J 14' power reverse "J" plow with parallel lift assembly, sectional trip edge, and down pressure to provide scraping ability and eliminate plow chatter.	\$13,495.00	\$13,495.00
1	D204	Viking MW025 standard mid mount wing package with 8' cutting edge length. Available in right hand or left hand. Full trip hinge with Timbren bumper cushion.	\$8,657.00	\$8,657.00
1	D205	This wing package is the same as currently in use by MoDOT Viking MW 225 hydraulic patrol wing mid mounted with the rear support installed between the rear axles - see supplied drawing. This wing can be supplied with a longer and heavier wing than the standard mid mount allowing a wider clearing path, benching capability and higher speeds.	\$12,580.00	\$12,580.00
1	D206	Power reverse under body scraper with 1" x 20" x 120" rolled formed moldboard	\$110,157.00	\$110,157.00
1	D207	Swenson EV100 16" 201SS Vee body Spreader with dual 135 gallon poly tanks, 20" poly spinner, RS White conveyor motor without sensor. Cross over kit for tanks and hose and fitting kit with 1/2 set of Aeroquip 45 series or compatible couplers and covers.	\$14,470.00	\$14,470.00
1	D208	Cougar Body vibrator installed on dump body	\$515.00	\$515.00
1	D209	Onspot automatic air actuated tire chains installed	\$1,485.00	\$1,485.00
1	D210	Quixote road and air temperature sensor	\$1,320.00	\$1,320.00
1	D212	Pneumatic controls for dump body, plow raise and lower, and plow reverse on base package - deduct	\$2,500.00	\$2,500.00
1	D213	1/4" AR450 floor and tailgate in lieu of 3/16" Corten for slabbing operations	\$1,068.00	\$1,068.00
1	D214	Hot shift PTO in lieu of crankshaft drive pump	\$1,643.00	\$1,643.00



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**QUOTATION**

Quote ID: 2287

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QUANTITY	PART NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
			Quote Total:	\$227,348.00
			Discount:	\$0.00
			Total Due:	\$227,348.00

The following options may be added:

QUANTITY	DESCRIPTION	PRICE EACH	AMOUNT

Customer must fill out the information below before the order can be processed...

Accepted by:	
Date:	
P.O. number:	

- ◆ Quoted price does not include any applicable taxes.
- ◆ Terms are Due Upon Receipt unless prior credit arrangements are made at the time of order.
- ◆ Please note if chassis is furnished, it is as a convenience and terms are Net Due on Receipt of Chassis
- ◆ Terms for established accounts, NET 30 days

MoDOT D2 RFP renewal 2012



**Prepared For:**  
MO DOT  
830 MO DOT DR.  
Jefferson City, MO 65109

**Presented By:**  
F & C Truck Sales & Service  
2350 Chouteau Ave  
St. Louis, MO 63103  
314-771-3180 or 258-3333  
mroman@fandctrucks.com  
Mark Roman

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Jan 3, 2012  
2013 GU713  
Ref#: AGFU005913A

**Description**

**ORDER/CUSTOMER/VEHICLE INFORMATION**

INITIAL REGISTRATION LOCATION, UNITED STATES, MISSOURI  
IDLE EMISSION CERTIFICATION, IDLE EMISSION CERTIFICATION - CARB 08  
TYPE OF SERVICE, MUNICIPAL  
VEHICLE APPLICATION CLASS, NORMAL HIGHWAY - Unlimited operation on concrete or asphalt with a maximum 3% grade; limited operation on maintained gravel/packed dirt with a maximum 3% grade; and limited operation on concrete or asphalt with a maximum 8% grade. No operation on unmaintained surfaces. (2 AXLES) 50,000 lbs (22,680 kg) MAX GVW. (3 AXLES) 63,000 lbs (28,576 kg) MAX GVW.  
CARRIER APPLICATION, WITH CRD150-151, Unlimited miles on 3% grade maintained gravel/packed dirt or paved, Max 15% miles on 8% grade maintained gravel/packed dirt or paved. 90000# (41000 kg) MAX GCW. (Carrier Code USA/Canada-H1)  
VEHICLE TYPE, STRAIGHT TRUCK WITH TRAILER  
VEHICLE USE AND BODY/TRAILER TYPE, DUMP . . . . . On Hwy  
COMMODITIES, ROCK  
80000# (36287 kg) GCW RATING  
BRAKE - STOPPING DISTANCE, BRAKE REGULATION, STOPPING DISTANCE 94M (310FT)  
PRICE BOOK LEVEL, 2013A PRICE BOOK LEVEL  
PRODUCT TYPE, PRODUCT TYPE - CML64R TRUCK  
PRODUCT CLASS, PRODUCT CLASS 28  
BACK OFFICE PROCESS, BACK OFFICE PROCESS

**BVS/FRT AXLE POS/SALES PACKAGES**

CHASSIS (BASE MODEL), GU703 6-WHEEL TRUCK  
CHASSIS PACKAGING SOLUTIONS, PACKAGE 3 INCLUDES: HHS Emission, B Box RH side Under Cab, Air Tank(s)  
Under B Box - remaining between Frame rails REQUIRES: LH Fuel Tank Round or D-Shaped (Not Steeved), and  
Omit or Isolate RH Tank

**ENGINE/TRANSMISSION/CLUTCH**

ENGINE, MACK MP7-405M 405 HP @1500-1900 RPM (PEAK) 1480 LB FT. MAX TORQUE @ 1100-1300 RPM  
TRANSMISSION, 6 SPEED AUTOMATIC, ALLISON 4500-RDS-6 (4.70/0.67) RUGGED DUTY SERIES GEN 4 INCLUDES  
TRANSMISSION COOLER, EXTERNAL OIL COOLER, INTERNAL FILTER, AND OIL LEVEL SENSOR  
CLUTCH, OMIT CLUTCH

**EXHAUST/EMISSIONS**

DPF, CLEARTECH HHS DPF RH SIDE UNDER CAB W/SCR FRAME MTD RH SIDE  
EXHAUST AFTER-TREATMENT SYSTEM, EXHAUST AFTER-TREATMENT SYSTEM DIESEL PARTIC FILTER CERAMIC  
PASSIVE REGEN  
DPF SMART SWITCH, NO INHIBIT DPF REGENERATION SWITCH  
EXHAUST, EXHAUST - SINGLE STANCHION OR SINGLE CAB MTD, SINGLE (R/S) VERT EXHAUST CAB MOUNTED, LOWER  
VENTURI DIFFUSER, TURNED END  
SINGLE, BRIGHT FINISH HEAT SHIELD AND STACK  
FURNISH STEEL PAINTED HEAT SHIELD FOR FRAME MTD MACK CAP DPF

**ENGINE EQUIPMENT**

AIR COMPRESSOR, MERITOR/WABCO 318 18.7 CFM  
AIR CLEANER, 11" x 30" (279 mm x 762 mm) UNDER HOOD SINGLE ELEMENT DRY TYPE W/AIR INTAKE FROM BOTH

**Description**

SIDES OF HOOD  
AIR GOVERNOR  
INSIDE/OUTSIDE AIR INTAKE W/IN-CAB CONTROL FOR SNOWPLOWS  
ALTERNATOR, LEECE NEVILLE BRUSHLESS 12V 160A  
BATTERIES, (3) MACK 12V 1000/3000 CCA THREADED STUD  
BUG SCREEN, RADIATOR MOUNTED  
FURNISH TEXACO BRAND LONG LIFE #16447 ENGINE COOLANT W/O NITRITES (50/50 MIX) to -34 degrees F (-37 degrees C)  
SPIN ON CANISTER W/O CHEMICAL FOR USE W/TEXACO EXTENDED LIFE COOLANT ONLY  
ENGINE BRAKE, MACK POWERLEASH  
ENGINE BLOCK HEATER, 120V 1500 WATT ENGINE BLOCK HEATER  
ENGINE HOSES AND TUBING, SILICONE (DOES NOT INCLUDE HEATER & RADIATOR HOSES)  
FAN DRIVE, BORG WARNER COOL LOGIC FAN DRIVE (HDMS) ELECTRONICALLY CONTROLLED VARIABLE  
FLYWHEEL HOUSING, LIGHT WEIGHT, ALUMINUM  
FUEL-WATER SEPARATOR, DAVCO 382, (FLUID HTD) FUEL HEATER/WATER SEPARATOR W/VENDOR PRIM & MACK SEC  
FUEL FILTER  
HAND PRIMER PUMP  
HOSES - RADIATOR/HEATER, SILICONE  
OIL PAN HEATER, W/O OIL PAN HEATER  
RADIATOR, ALUMINUM CORE  
ELECTRIC PREHEATER  
STARTER, 12 VOLT GEAR REDUCTION STARTER  
ELECTRONIC STARTER INTERLOCK

**TRANSMISSION EQUIPMENT/DRIVELINES**  
CLUTCH ASSIST (AIR), Information is not required  
CLUTCH PEDAL, W/O CLUTCH PEDAL  
TRANSMISSION BELL HOUSING, ALUMINUM  
FURNISH FOR ALLISON TRANSMISSION W/DIRECT MOUNT COOLER  
ALLISON TRANS. SHIFT TO NEUTRAL WHEN PARK BRAKE ENGAGED  
SYNTHETIC LUBRICANT - TRANSMISSION, TRANSYND SYNTHETIC LUBE FOR ALLISON TRANS  
VOCATIONAL PACKAGE - ALLISON, ALLISON VOCATIONAL PKG. #105142 RUGGED DUTY SERIES (RDS)-REFUSE (AG) -  
ONE SELECTOR  
WITHOUT DRIVESHAFT GUARD FOR CENTER BEARING  
DRIVELINE - MAIN, MERITOR 18N HD W/COATED SPLINES  
DRIVELINE - INTERAXLE, MERITOR 17N HD W/COATED SPLINES

**CAB (A thru G)**  
MACK (BERGSTROM) INTEGRAL W/HEATER COMBINATION HEATER/DEFROSTER AND CONDITIONER  
AIR CONDITIONING COMPRESSOR, ROTARY FREON  
AIR RESTRICTION MONITOR (INTAKE), W/O AIR RESTRICTION MONITOR  
ASH TRAY  
DASH CONTROL/POWER SUPPLY/LOCAL INSTALLATION PLOW LAMPS W/LEAD FURNISH AT GRILLE W/2W/3W  
WEATHER PACK CONNECTION  
CAB, LH-DRIVE CA68 CONV CAB  
AUX. INCAB PNEUMATIC LINE CLEANOUT

**Description**

CAB MOUNTING, AIR SUSPENSION  
CERTIFIED WEIGHT  
CIGAR LIGHTER  
COAT HOOK (2)  
DRIVERS AND PASSENGER SIDE CUP-HOLDERS  
DASH MOUNTED SWITCHES, PENNDOT SWITCH PACKAGE  
PARK BRAKE AND ENGINE RUNNING ACTIVATED  
(4) LAMPS RH & LH DOME LAMPS-DOOR & SWITCH ACTIVATED; (2) CAB REAR DOME LAMPS-SWITCH ACTIVATED  
DOOR INTERIOR TRIM PANELS, PADDED VINYL WITH ARM REST PADS  
ENGINE SHUTOFF, KEY TYPE  
FENDER EXTENSIONS, FENDER EXTENSIONS  
FLOOR COVERING, POLYURETHANE FLOOR MAT  
GAUGE, AIR PRESSURE  
GAUGE, VOLTMETER  
GAUGE CLUSTER, EXHAUST PYROMETER AND TRANSMISSION OIL TEMPERATURE GAUGES  
GAUGE, ENGINE COOLANT TEMPERATURE  
GAUGE, ENGINE OIL PRESSURE  
GAUGE, ENGINE OIL TEMPERATURE  
GAUGES, ENGLISH/METRIC DISPLAY  
WITHOUT REAR AXLE OIL TEMPERATURE GAUGE  
GAUGE, SPEEDOMETER W/TRIP ODOMETER (ELECTRONIC 1% ACCURACY)  
ENGINE TACHOMETER  
GEAR SHIFT, DASH MOUNTD SHIFTER  
GLASS - CAB WINDOW, TINTED WINDSHIELD AND SIDES W/50% TRANSMITTANCE GRAY, TINTED REAR WINDOW  
DIAGONAL GRAB HANDLE ON INSIDE DRIVER'S DOOR  
GRILLE - HOOD AIR INTAKE, GRILLE PAINTED GRAY  
GRILLE, BRIGHT FINISH GRILLE W/O SURROUND RADIATOR MOUNTED

**CAB (H thru R)**

HEADLINER, VINYL COVERED FOAM PADDED HEADLINER  
HOOD AND FENDERS, COMPOSITE MATERIAL  
HOOD INSULATION  
PAINTED HOOD LATCHES  
HORN - AIR, (1) MACK RECTANGULAR SINGLE TRUMPET  
HORN - ELECTRIC, DUAL TONE (TWO HORNS)  
IDENTIFICATION/CLEARANCE LIGHTS, (5) GROTE LED LAMPS  
IN-DASH STORAGE, W/O UPPER STORAGE OPTION  
INSTRUMENT CLUSTER DISPLAY, CO-PILOT DRIVER DISPLAY (ENHANCED 4.5" DIAGONAL GRAPHIC LCD DISPLAY  
W/4-BUTTON STALK CONTROL) (INCLUDES GUARDDOG ROUTINE MAINTENANCE MONITORING)  
INSTRUMENT PANEL, CHARCOAL GRAY  
INTERIOR TRIM (PUREBRED - SANDSTONE) Vinyl headliner & seat covering, 2 netted storage compartments and center CB  
radio mounting provisions in overhead console, rear panel with storage pouch, polyurethane floor mat, 2 cup holders, slate gray  
instrument panel with black gauge bezel, Sandstone door panels & trim, RH door peep window, padded interior sun & visors both  
sides, 2 spoke slate grey urethane cushion grip steering wheel with Bulldog horn button, adjustable tilt/telescoping steering

**Description**

column, hand crank lh/rh windows, 2 general overhead lights, 1 driver overhead light & 1 map non-glare overhead light, 2 12V power sources, seat belts, lap and shoulder w/cab mid shoulderbelt, 2 coat hangers, 2 trash bag hooks, RH storage compartment, RH Door Peep Window

CHASSIS KEYED AT RANDOM - 2 KEYS

LOW AIR PRESSURE INDICATOR LIGHT AND BUZZER

MIRRORS - EXTERIOR, BULLDOG STYLIZED MIRRORS - HEATED W/INTEGRAL CONVEX MIRROR

MIRRORS - CONVEX TYPE, WITHOUT CONVEX TYPE

OVERHEAD CONSOLE, (2) STORAGE COMPARTMENTS AND NET RETAINERS W/CENTER MOUNTING FOR CB PROVISIONS

PARKING BRAKE ON INDICATOR LIGHT

POWER OUTLETS, (2) 12-VOLT AUXILIARY POWER OUTLETS - DASH MOUNTED

AM/FM STEREO CD W/WEATHERBAND

RADIO ANTENNA, CAB MOUNTED BEHIND LH DOOR

POWER LEADS (5-WAY BINDING POSTS FOR CB RADIO) IN HEADER CONSOLE

RADIO ANTENNA - CB, SINGLE DRIVER SIDE

CB RADIO MOUNTING REINFORCEMENT IN HEADER CONSOLE

REAR WINDOW (FIXED TYPE)

**CAB (S thru Z)**

SEAT - DRIVER, AIR-NATIONAL 2000 (HI-BACK) SINGLE CHAMBER AIR LUMBAR, 2 POSITION FRONT CUSHION ADJ.

SEAT - RIDER, MACK FIXED (MID-BACK) NON-SUSPENSION

SEAT ARM RESTS, INBOARD MOUNTED ARM REST, DRIVER'S SEAT ONLY

SEAT COVERING, ALL VINYL DRIVER & RIDER SEATS

LAP & SHOULDER W/FIXED D-RING FOR DRIVER & RIDER SEATS TO BE ORANGE IN COLOR  
W/O ROOF VENT VENTILATION

STARTER SWITCH, KEY TYPE

STEERING COLUMN, ADJUSTABLE TILT TELESCOPE

STEERING WHEEL, TWO SPOKE URETHANE GRIP PAINTED SPOKES & BULLDOG HORN CAP

STORAGE POUCH REAR

SUN VISOR, EXTERIOR, FIBERGLASS (CAB COLOR)

SUN VISOR - INTERIOR, BOTH SIDES (PADDED VINYL)

WINDOW CONTROLS, POWER ELECTRIC RH WINDOW & POWER ELECTRIC RH DOOR LOCK

WINDSHIELD, 2-PIECE WINDSHIELD

WINDSHIELD WASHERS, ELECTRIC, WIPER MOUNTED W/RESERVOIR MOUNTED UNDER HOOD

WINDSHIELD WASHER RESERVOIR, WINDSHIELD WASHER RESERVOIR INSTALLED BOC

WINDSHIELD WIPERS, 2 SPEED ELECTRIC MOTOR W/INTERMITTENT FEATURE

**FRAME EQUIPMENT/FUEL TANKS**

BUMPER - FRONT, EXT.-SWEEP BACK-STEEL CHANNEL 122.5"/3112 mm BBC

CROSSMEMBERS, BOC AND INTERMEDIATE(S) STEEL HD BACK-TO-BACK CHANNEL

CROSSMEMBER (BEHIND REAR AXLE), W/O OPTIONAL CROSSMEMBERS BEHIND REAR AXLE/BOGIE  
WITHOUT FIFTH WHEEL MOUNTING ANGLES

FLAPS - MUD (FRONT), BLACK POLYARMOUR MUD FLAP

FRONT FRAME EXTENSION, 20" FOR SNOW PLOW MOUNT (CONT' PARENT RAIL) W/TILT W/O INSPECTION

HATCHS-W/SWEEP-BACK BUMPER

**Description**

TOWING DEVICE - FRONT, HOOKS  
TOWING DEVICE - REAR, HOOKS (FRAME MOUNTED)  
FUEL TANK - LH, 66 GALLON (250 L) ALUMINUM D-SHAPE  
FUEL TANK - RH, OMIT RH STANDARD  
STANDARD FINISH STEPS AND BRIGHT FINISH STRAPS - FUEL TANK  
11.8 GALLON (45 L) 22" DIAMETER TANK LEFT SIDE FRAME MTD  
PAINTED FINISH DEF TANK COVER  
W/O FUEL LINE OPTION

**FRONT AXLE/EQUIPMENT/TIRES**

FRONT AXLE, 18000# (8165kg) MACK FXL18 (WIDE PIVOT CENTER)  
FRONT AXLE - TWIN STEER, WITH SINGLE STEER FRONT AXLE  
TIRES BRAND/TYPE - FRONT, BRIDGESTONE - TUBELESS RADIAL PLY, (2) 315/80R22.5 20 L M860 (ALL POS)  
WHEELS - FRONT, STEEL DISC (10-HOLE)  
(2) 22.5x9.0 (228 mm) HAYES LEMMERZ 10-HOLE HUB PILOTED (11 1/4"/286mm BC)(FIVE HAND HOLE)(5.25" INSET)  
WHEELS - POLISHED (FRONT), W/O FRONT DISC WHEEL BRIGHT FINISH  
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  
FAG SCHAEFFLER, FRONT HUB OIL SEAL  
SHOCK ABSORBERS, FRONT  
SLACK ADJUSTERS - FRONT, GUNITE 2000 - AUTOMATIC  
SPRINGS - FRONT, MACK TAPERLEAF 18000# (8165kg) GROUND LOAD RATING  
STEERING, SHEPPARD SD110  
PROTECTIVE NYLON SPACER BETWEEN DISCS WHEEL TO DRUM

**REAR AXLE/EQUIPMENT/TIRES/RATIOS**

REAR AXLE/SUSPENSION, 40000# (18144kg) MACK SB38 FAB STEEL HOUSING - RECERT, SSB38 MACK MULTILEAF  
(CAMELBACK) 40000# RECERTIFICATION  
TIRES BRAND/TYPE - REAR, BRIDGESTONE - TUBELESS RADIAL PLY, (8) 11R22.5 14 G R250F (ALL POSITION)  
CARRIER/RATIO - REAR AXLE, CRDP150/151, 4.80 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 DRUMS - REAR, CAST OUTBOARD MOUNTED  
DUST SHIELDS - REAR BRAKE, OMIT  
HUBS - REAR, FERROUS  
OIL SEALS, CHICAGO RAWHIDE (SCOTSEAL)  
POWER DIVIDER LOCKOUT W/WARNING LIGHT AND BUZZER (INCLUDES IN CAB MANUAL AIR VALVE)  
SLACK ADJUSTERS - REAR, GUNITE 2000 - AUTOMATIC  
SUSPENSION - AXLE SPACING, 50" AXLE SPACING (BOGIE WHEELBASE)  
SPRINGS, ANTI-SWAY  
SPRING BRAKE CHAMBERS - QUANTITY, (4) DOUBLE DIAPHRAGM TYPE, MECHANICAL SPRING RELEASE, (2) MOUNTED  
ON EACH AXLE

**Description**

SPRING BRAKE CHAMBERS - VENDOR, HALDEX "LIFE SEAL" TYPE  
SPRING BRAKE CHAMBERS, TYPE 30/30 REAR  
WITHOUT TRANSVERSE TORQUE RODS  
BRONZE TRUNNION BUSHING  
FURNISH PROTECTIVE NYLON SPACER BETWEEN DISCS & WHEEL TO DRUM

**FRAME/WHEELBASE/PLATFORM**

FRAME RAILS, 11.811" x 3.54" x .44" (300 x 90 x 11.1mm) STEEL Section Modulus: 23.5 cu in/RBM 2,820,000 in lbs per rail  
WHEELBASE, 218" (5545 mm) WB 131" CA (3322 mm)  
PLATFORM, 187" LP (4752 mm) 56" AF (1430 mm) USED WITH 218" WB  
FRAME REINFORCEMENT - INSIDE, W/O 5MM INSIDE CHANNEL REINFORCEMENT

**AIR/BRAKE**

AIR BRAKE SYSTEM, DUAL  
AIR DRYER, BENDIX HEATED AIR DRYER, AD-IP W/COALESCING OIL FILTER  
UNDER BATTERY BOX, REMAINING BETWEEN FRAME RAILS  
AIR RESERVOIRS, STEEL  
ANTI-LOCK BRAKE SYSTEM, BENDIX WITH TRACTION CONTROL  
AIR CONTROL VALVES - VENDOR, BENDIX SWITCHES AND VALVES WHERE POSSIBLE  
BRAKE CONTROL VALVE SYSTEM, TWO (2) VALVE DUAL BRAKE SYSTEM - TRAILER SUPPLY AND TRACTOR-TRAILER  
PARK  
DRAIN VALVES, MANUAL (PETCOCK) DRAIN VALVES ON ALL TANKS  
HAND CONTROL VALVE FOR TRAILER BRAKES

**TRAILER CONNECTIONS**

TRAILER AIR CONNECTIONS, TRAILER AIR BRAKE CONNECTIONS, END OF FRAME  
WITHOUT HOSE TENDER  
TRAILER ELECTRICAL RECEPTACLE, SINGLE 7 PINS STD SAE TYPE, END OF FRAME  
OMIT TRAILER CONNECTORS HOLDER

**ELECTRICAL**

BATTERY BOX(ES), STEEL  
BATTERY BOX COVERS, MOLDED PLASTIC  
BATTERY BOX - MOUNTING, RIGHT HAND UNDER CAB  
BATTERY SHOCK PADS  
DASH MTD, INDICATOR BODY/HOIST UP "BODYBUILDER LAMP"  
COURTESY LIGHT SWITCH (HEADLAMP AND CLEARANCE)  
ELECTRIC CIRCUIT PROTECTION PACKAGE, ALL CIRCUITS FUSE/BREAKER PROTECTED  
WATERPROOF ELECTRICAL CONNECTIONS SPRAYED W/PROTECTIVE COATING  
"BODY LINK" III W/CAB PASS-THRU  
HEADLIGHTS, HALOGEN FLUSH  
SIGNAL FLASHER TYPE, TRANSISTORIZED FLASHER FOR TURN SIGNAL  
WORK LIGHTS, RH/LH LED WORK LIGHT (STEPS & GROUND) ON BOTH SIDES TRUCK

**PAINT**

PAINT - CAB EXTERIOR, SINGLE COLOR, SCHOOL BUS YELLOW [PPG: 741173]  
PAINT - CAB, URETHANE BASE COAT W/O CLEAR COAT  
PAINT - CHASSIS RUNNING GEAR, MACK BLACK (URETHANE)

**Description**

PAINT - BUMPER, SAME AS CHASSIS RUNNING GEAR  
PAINT - FRONT SPOKE WHEELS, WITHOUT OPTIONAL SPOKE WHEEL PAINT  
WITHOUT OPTIONAL SPOKE WHEEL PAINT  
FRONT WHEELS PRE-FINISHED WHITE  
REAR WHEELS PRE-FINISHED WHITE

**PAINT PROCESS CODES**

SAME COLOR AS CHASSIS RUNNING GEAR (5ZB-A1X)  
CHASSIS RUNNING GEAR - STD COLOR (MACK BLACK) (6AB-Z1X)  
W/O PAINT FOR FUEL TANK (7HB-Z1X)  
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, 1350 SERIES FLANGE (DOES NOT INCLUDE FRONT FRAME EXTENSION)  
PTO - REAR ENGINE (REPTO), WITHOUT REAR ENGINE POWER TAKE OFF  
PTO - CONTROL, PTO SWITCH AND LIGHT WITH WIRING AND PIPING N/A W/RMPTO  
TORQUE CONVERTER TC541

**V-MAC IV PROGRAMMABLE PARAMETERS**

CRUISE CONTROL SETTINGS W/WALLISON 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) 5 mph  
DATAMAX SETTING FOR USE WITH INSTRUMENT CLUSTER DISPLAY (C0J002)  
ENGINE OVERSPEED COMPANY LIMIT (RPM) 2100 rpm  
FUELED ENGINE OVERSPEED COMPANY LIMIT (RPM) 2100 rpm  
VEHICLE OVERSPEED COMPANY LIMIT (MPH) 70 mph  
FUELED VEHICLE OVERSPEED COMPANY LIMIT (MPH) 70 mph  
IDLE LOGGING DELAY (MIN) 2  
PERIODIC TRIP TYPE Monthly Trip Summary  
PERIODIC TRIP HOUR OF DAY 0 (disable)  
PERIODIC TRIP DAY OF WEEK 0 (disable)  
PERIODIC TRIP DAY OF MONTH 1  
DAYTIME RUNNING LIGHTS W/O OVERRIDE SWITCH  
DRL OVERRIDE SWITCH SPEED THRESHOLD (MPH) 00  
DRL OVERRIDE SWITCH OFF TIME (MIN) 00 mph  
CO-PILOT FLEET TRIP PROGRAMMING ACCESS Fleet Level  
FLEET MANAGEMENT VIA CO-PILOT Omit  
DEL MESSAGES CO-PILOT ACTIVATION Omit  
EHT MAX ENGINE SET SPEED (RPM)  
1900 rpm  
EHT MIN ENGINE SET SPEED (RPM) 700 rpm  
EHT VEHICLE SPEED RANGE LIMIT (MPH) 10 mph  
EHT RAMP RATE (RPM/Sec)

## Description

EHT SINGLE SPEED CONTROL ACTIVATION Omit  
EHT SINGLE SPEED CONTROL SET SPEED (RPM) 0000 rpm  
EHT JUMP-TO-MIN SET SPEED Omit  
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 MOVING Furnish  
FAN OVERRIDE TIME WHEN MOVING (MIN) 1  
ALLOW FAN OVERRIDE WHEN PARKED Omit  
FAN ACTIVATION WITH PTO Omit  
AIR CONDITIONING OVERRIDE TIME (SEC) 60  
FUEL ECONOMY INCENTIVE FOR USE WITH INSTRUMENT CLUSTER DISPLAY (COJ 0002)  
FEI PENALTY TARGET FUEL ECONOMY No Driver Incentive  
FEI PENALTY TARGET FUEL ECONOMY (MPG) 0.0  
FEI PENALTY VEHICLE SPEED DECREASE (MPH) 0 mph  
FEI REWARD TARGET FUEL ECONOMY (MPG) 0.0  
FEI REWARD VEHICLE SPEED INCREASE (MPH) 0 mph  
FEI DISTANCE CALCULATION INTERVAL (Miles) 00  
GOVERNOR SETTINGS FOR USE WITH AUTOMATIC TRANSMISSIONS  
GOVERNOR TYPE Min-Max Governor  
ENGINE HIGH IDLE SPEED IN UPPER GEARS 0000  
ENGINE LOW IDLE SET SPEED (RPM) 650 rpm  
DRIVER LOW IDLE ADJUST FEATURE ACTIVATION Omit  
SMART IDLE FEATURE ACTIVATION Furnish  
SMART IDLE ELEVATED IDLE RPM TIME (MINS) 5  
IDLE COOLDOWN FEATURE ACTIVATION Furnish  
IDLE SHUTDOWN FEATURE ACTIVATION Furnish  
IDLE SHUTDOWN TIME (MINS) 10  
IDLE SHUTDOWN WARNING TIME (SECS) 60  
IDLE SHUTDOWN WARM-UP TEMPERATURE (DEG F) 120  
IDLE SHUTDOWN WARM-UP TIMER (MINS) 15  
IDLE S/D OVERRIDE W/EHT Omit  
IDLE S/D OVERRIDE W/PTO Furnish  
IDLE S/D OVERRIDE W/ENGINE LOAD Furnish  
MAINTENANCE MONITOR FEATURE ACTIVATION Furnish  
MAINTENANCE MONITOR OEM DEFAULT INTERVALS MP Vocational  
MAINTENANCE DUE WARNING PERCENT 90  
PTO 1 MAX ENGINE SET SPEED (RPM) 1900 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

**Description**

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 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  
SPEED SENSOR TAMPER DETECTION SYSTEM ACTIVATION Furnish  
SPEED SENSOR TAMPER DETECTION TORQUE LIMIT (%) 50  
TRANSMISSION SETTINGS, TRANSMISSION SETTINGS FOR USE W/O EATON AUTO/ULTRASHIFT  
EATON AUTOSHIFT/ULTRASHIFT SHIFT MODE W/O Eaton Auto/Ultrashift Mode  
CUSTOMER VEHICLE LIMITING SPEED (MPH) 65 mph  
LGVLS FEATURE ACTIVATION Omit  
LOWER GEAR VEHICLE LIMITING SPEED (MPH) 55 mph

**DEALER INFORMATION**

ENGINE WARRANTY, 2YR/250,000 MILES ENGINE WARRANTY US10  
MANUALS, PEDIGREED PROTECTION PLAN TECH. SERVICE MANUAL PROVIDED  
PILOT INSPECTION, WITHOUT PILOT INSPECTION  
STANDARD SHIPPING INSTRUCTIONS

**PERFORMANCE/GRAPHICS/TECH DATA**

AMBIENT TEMPERATURE, 77F (25.0C)  
BACK OF CAB INTERFERENCES, 0.0" (0mm) FROM BACK OF CAB  
SOFT PRODUCTS/BULLDOG PROTECTION