

P/C
Sp. Caucus 8/11/20
1st R 8/11/20 Sp. Council
2nd R 8/12/20 Sp. Council
3rd R 8/13/20 Sp. Council
B/C

CITY OF BROOK PARK, OHIO

ORDINANCE NO: 11158-2020

INTRODUCED BY: MAYOR GAMMELLA

AN ORDINANCE

AUTHORIZING THE MAYOR TO ENTER INTO AN AGREEMENT WITH
BEST EQUIPMENT CO., INC., FOR THE
PURCHASE OF TWO NEW 2020 MACK/LABRIE 37 YARD AUTOMATED SIDE
LOADER TRUCKS, AND TRADE IN TWO OF THE CITY'S OLDEST AUTOMATED
TRUCKS, AND DECLARING AN EMERGENCY

WHEREAS, the Mayor has determined that the Service Department for the City is in need of two 2020 Mack/Labrie 37 yard automated side loader trucks to help maintain our City; and

WHEREAS, the City of Brook Park is a member of the National Joint Powers Alliance ("NJPA") now known as Sourcewell which is an organization that creates national cooperative contract purchasing solutions for its member agencies; has competitively bid, advertised, and awarded the contract; and

WHEREAS, Best Equipment Co., Inc., is an Ohio truck equipment vendor that has been authorized by the NJPA, now doing business as Sourcewell, to provide trucks and truck equipment to NJPA members now doing business as Sourcewell.

NOW, THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: Pursuant to Section 7.04(h) of the Charter of the City of Brook Park, the Mayor is authorized to enter into an Agreement with Best Equipment Co., Inc., for the purchase of two new 2020 Mack/Labrie 37 yard automated side loader trucks and to trade in two the City's oldest automated trucks; a proposal for said trucks and trade-in is attached hereto and incorporated herein as Exhibit "A."

SECTION 2: The money needed for the aforesaid transaction shall be paid from funds theretofore appropriated or to be appropriated for said purchase of two 2020 Mack/Labrie 37 yard automated side loader trucks; the total amount of the purchase of said is \$647,096.00, less trade in credit of \$120,000.00 and additional \$3,000.00 discount, equaling \$510,976.00, to be paid

from capital fund 401 and sanitation equipment fund 423.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason to allow the City to purchase two 2020 Mack/Labrie 37 yard automated side loader trucks and trade-in two of the City's oldest automated trucks; provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: August 13, 2020
Special Council

M. P. Vecchio
PRESIDENT OF COUNCIL

ATTEST: Michelle Blazak
Clerk of Council

APPROVED: [Signature]
MAYOR

8/17/2020
DATE

CERTIFICATE

Michelle Blazak, Clerk of Council, of the City of Brook Park, Ohio, do hereby certify that the foregoing is a true and accurate copy of Ordinance/Resolution No. 11158-2020

passed on the 13th day of August 2020 by said council.

Michelle Blazak
Clerk of Council

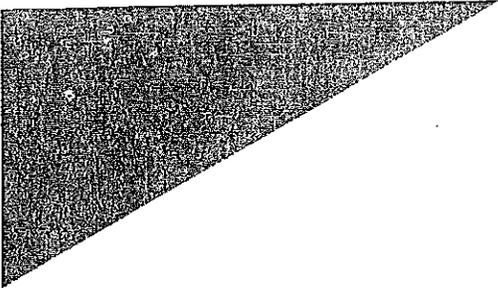
I, Michelle Blazak, Clerk of Council for the City of Brook Park, State of Ohio, do hereby certify that there is no newspaper of general circulation in the municipality and that publication of the foregoing ordinances/resolutions was made by posting true copies at five of the most public places in said municipality as determined by Ordinance No. 4838-1975; location City Hall 6161 Engle Road, Police Station 17401 Holland Road, #2 Fire Station 22530 Rupie Parkway, #3 Fire Station 17401 Holland Road, Brook Park Library 6165 Engle Road, for a period of fifteen days.

Commencing August 18, 2020
Michelle Blazak
MICHELLE BLAZAK
Clerk of Council

I HEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTNESS

[Signature]
DIRECTOR OF LAW

	Yea	Nay
Troyer	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mencini	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Orcutt	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Scott	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schmuck	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Poindexter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Salvatore	<input checked="" type="checkbox"/>	<input type="checkbox"/>



BEST

EQUIPMENT



SALES | SERVICE | PARTS

**EXPERTS IN MUNICIPAL AND CONTRACTOR
ENVIRONMENTAL SOLUTIONS SINCE 1917**



SALES PROPOSAL

5550 POINDEXTER DRIVE
INDIANAPOLIS, IN 46235

12620 YORK DELTA DRIVE
NORTH ROYALTON, OH 44133

2500 AMPERE DRIVE
LOUISVILLE, KY 40299

Prepared On	Valid Through	Payment Terms	FOB
June 1, 2020	60 Days	Standard	Brookpark, Ohio

Prepared Especially For

John Pensis
City of Brookpark
jpensis@cityofbrookpark.com

Prepared By

Joe Aquilino
joeaquilino@bestequipmentco.com

Notes

Pricing Includes All Sourcewell (previously NJPA), Discounts
Sourcewell (previously NJPA), Contract Number #: 112014-LEG
Delivery: 12-13 months from receipt of City's P.O.
City of Brookpark, Ohio is Tax Exempt
Cab & Chassis Specifications Attached
Purchase Order to be issued to Best Equipment Company

Terms and Conditions: For new units, standard manufacturer warranty apply, additional information available upon request. In-stock, on the ground units and/or inventory units are subject to prior sale. Used units are sold as is, where is, with no warranty, either stated or implied. Copy of trade title, if applicable, is due at time of agreement, original due at delivery. This agreement is binding. By signing, you agree that you are authorized to enter into this contract. Delivery dates are estimations. Best Equipment Company is not financially responsible for lost time, revenue, or any other losses.

Item	Quantity	Unit Price	Subtotal
New 2020 Mack-MR (Low Entry) Cab & Chassis with Dual Left & Right Hand Steering Specifications Attached Including: 5 Year Extended Warranty Engine Plan # 2 5 Year Extended Warranty Engine Emissions 5 Year Extended Warranty Allison Transmission	2	\$161,203.00	\$322,406.00
New 37 Cubic Yard Labrie Automated Side Loader, w/Heavy Duty Arm Unit Includes All Standard & Previous Selected Body Options Including: Auto Lube Vogel System Crusher panel with in-cab switch Multiplex System Body control valve-electric over hydraulic Hopper Hardox Liner Work lights in hopper and curb side post Triple Clarion cameras, mounted in hopper, on curbside and on tailgate with color monitor in cab Extra-large decal on tailgate Grab pack with multi-cycle packing ram LED lights: stop, turn, tail, back-up and rear amber alternating flashing, located above tailgate Multi-cycle for packing blade Sliding hopper access step Spill shield installed behind grabber Wear strips in hopper floor railings 1/4" Hardox 450 Anti-sails and rear mud flaps 1/8" Hardox 450 liner at front of body White body paint to match cab and chassis	2	\$162,345.00	\$324,690.00
			\$647,096.00
		Subtotal	\$647,096.00
		Sourcewell Discount	-\$13,120.00
		TWO - Labrie Mack Trade-Ins	-\$120,000.00
		Add'l. Discount (\$1,500. per truck)	-\$3,000.00
		Total	\$510,976.00

Terms and Conditions: For new units standard manufacturer warranty apply, additional information available upon request. In-stock, on the ground units, and/or inventory units are subject to prior sale. Used units are sold as is, where is, with no warranty, either stated or implied. Copy of trade title, if applicable, is due at time of agreement, original due at delivery. This agreement is binding. By signing, you agree that you are authorized to enter into this contract. Delivery dates are estimations. Best Equipment Company is not financially responsible for lost time, revenue, or any other losses.

MAEK



TECHNICAL SPECIFICATION

LR 64R

				WEIGHT (LB)	
				FRONT	REAR
		DESCRIPTION			
S	901AX1		11R22.5 G BRIDGESTONE R268 ECOPIA (23360 lbs) (ALL POSITION) (Total for QTY = 8)	0	971
S	4WCC1X	GHG STEER TIRE CATEGORY (PAWS)	LOW ROLLING RESISTANCE, BETTER FUEL ECONOMY	0	0
S	9004Y0	TIRES BRAND/TYPE - FRONT	315/80R22.5 L BRIDGESTONE M870 (20000 lbs) (Total for QTY = 2)	336	0
S	5310L1	WHEELS - FRONT	22.5x9.00 ALCOA ULTRA ONE ALUM DISC 10-HP; 11.25" BC, 5.96"INSET (Total for QTY = 2)	111	0
S	49AALX	WHEEL FINISHING, FRONT	MACHINE CLEAN BUFFED-ALL WHEELS (Total for QTY = 2)	0	0
S	FWT002	FRONT AXLE TIRE & WHEEL QUANTITY	TWO FRONT TIRES & WHEELS	0	0
S	4XCC1X	GHG DRIVE TIRE CATEGORY (PAWS)	LOW ROLLING RESISTANCE, BETTER FUEL ECONOMY	0	0
	346AF3	WHEELS - REAR	22.5x8.25 HAYES LEMMERZ STEEL DISC 10-HOLE HUB PILOTED, TWO HAND HOLE (11 1/4"/286 mm BC) wgt reduced (Total for QTY = 8)	0	565
S	RWT008	REAR AXLE TIRE & WHEEL QUANTITY	EIGHT REAR AXLE TIRES & WHEELS	0	0
S	H1EB1X	DRIVE WHEEL STUDS	DRIVE WHEEL STUDS LONGER LENGTH	0	0
S	15XABX	TIRE INFLATION VALVE	STANDARD VALVE STEMS AND CAPS	0	0

				WEIGHT (LB)	
				FRONT	REAR
CUSTOMER/VEHICLE INFO		DESCRIPTION			
S	0029V2	CHASSIS (BASE MODEL)	LR 64R DAYCAB	9,811	1,866
S	MP2001	CUSTOMER FLEET SIZE	DEALER FLEET WITH LESS THAN 25 VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND	0	0
S	013001	TYPE OF SERVICE	COMMERCIAL	0	0
S	M98018	WARRANTY REGISTRATION LOCATION	US - WARRANTY REGISTRATION LOCATION	0	0
S	505015	INITIAL REGISTRATION LOCATION	ALL 50 STATES, CARB ENGINE EMISSION (US17 / US21 / ZERO EMISSION)	0	0
S	APPAA3	VEHICLE APPLICATION CLASS	CLASS B HIGHWAY-INNER CITY	0	0
	0050T5	VEHICLE USE & BODY/TRAILER TYPE	REFUSE AUTOMATIC SIDE LOADER TRUCK	0	0
S	032A39	TERRAIN GRADE	NORMAL HIGHWAY, STARTING GRADES<12%	0	0
S	033A10	LOADING SURFACE	CONCRETE LOADING AND / OR UNLOADING SURFACE	0	0
S	0342A4	VEHICLE VOCATION	REFUSE / LANDFILL OPERATION	0	0
	026086	SALES PROMOTION	RAPID QUOTE MANAGEMENT PROGRAM - US	0	0

TECHNICAL SPECIFICATION *(cont.)*

MACK®

ENGINE/TRANSMISSIONS	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
1000U0	ENGINE PACKAGE, COMBUSTION	0	0
S 136AS6	TRANSMISSION	732	245

EXHAUST/EMISSIONS	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
DF1021	DEF TANK	0	0
S 130AC7	EXHAUST	0	0
S Q0AA1X	EXHAUST SYSTEM MATERIAL FINISH	0	0
78AC8X	EMISSION ON BOARD DIAG CONTROL	0	0

ENGINE EQUIPMENT	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 1250C5	AIR CLEANER	0	0
S H8XZ1X	WINTERFRONT	-8	3
S VWXCAX	COMPRESSOR CAPACITY	0	0
S VHXECX	AIR DRYER - MANUFACTURER	0	0
S 132AB4	ALTERNATOR	16	0
S 316AA6	BATTERIES	0	0
S 393AD9	BATTERY BOX - MOUNTING	0	0
S L5XA1X	BATTERY BOX COVER	0	0
S 318AA3	BATTERY DISCONNECT SWITCH	0	0
S NCXA5X	STARTER MOTOR	31	0
S 118AB8	FAN DRIVE	0	0
S 119AI9	COOLANT PROTECTION	0	0
S 508018	COOLING PERFORMANCE	0	0
S 124AA2	HOSES - RADIATOR/HEATER	0	0
S 293AA2	FUEL-WATER SEPARATOR	0	0
S QHXC1X	OIL PAN	0	0
S MCA04A	ENGINE HEATERS	0	0
5NXA1X	ENGINE BLOCK HEATER	5	0
S 4TBA1X	ENGINE BLOCK HEATER RECEPTACLE (CA)	0	0
S 136AB1X	TETHER DEV PKG, CAPS & COVERS	0	0

CLUTCH/TRANS EQUIPMENT	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
195AB0	DRIVELINE - MAIN	23	23
204AA6	DRIVELINE - INTERAXLE	0	31
S 76AA1X	PROPELLR SHAFT MAIN, UNVSL JNT	0	0
S 8WAAAX	PROP.SHAFT INTERAXL UNIV JOINT	0	0

TECHNICAL SPECIFICATION (cont.)

FRONT AXLE EQUIPMENT				WEIGHT (LB)	
				FRONT	REAR
S	240AA3	FRONT AXLE	20000# (9100 KG) MACK FXL20 WIDE PIVOT CENTER STRAIGHT SPINDLE/UNITIZED BEARINGS	0	0
	244AC3	SPRINGS - FRONT	MACK MULTILEAF 20000# (9100 KG) GROUND LOAD RATING, EQUAL BIAS	120	0
S	241081	FRONT AXLE BRAKES	MERITOR "S" CAM TYPE 16.5" x 6" Q+	0	0
S	U0AA1X	FRONT BRAKE ADJ. MANUFACTURE	HALDEX - AUTOMATIC	0	0
S	V7AD1X	FRONT BRAKE CHAMBER MFG.	FRONT BRAKE CHAMBER MANUFACTURER, MGM	0	0
S	0KXA1X	HUB MATERIAL, FRONT	FERROUS	0	0
S	1KAA1X	SHOCK ABSORBER, FRONT	DOUBLE ACTING TYPE	20	0
S	245AA6	STEERING	M100P PLUS RIGHT SIDE ASSIST CYLINDER	142	0
S	2SAA1X	BUMP STOP, FRONT SUSPENSION	STATIC LOAD CUSHIONS	0	0

REAR AXLE EQUIPMENT				WEIGHT (LB)	
				FRONT	REAR
	268AA9	REAR AXLES - TANDEM	46000# (20900kg) MACK S462R CAST DUCTILE HOUSING	0	1,614
S	6MAA1X	REAR AXLE CASING WIDTH	W/O WIDE TRACK AXLE	0	0
S	018AA6	CARRIER - REAR AXLE	CRDP150/151 AVAILABLE WITH OPTIONAL DRIVER CONTROLLED INTERWHEEL DIFFERENTIAL LOCKS, SEE 254 SYMBOL	0	0
	TAXAEX	REAR AXLE RATIO	4.80 RATIO	0	0
	1860K6	REAR SUSPENSION - TANDEM	SS462 MACK MULTILEAF (CAMELBACK) 46000# - EXTRA THICK SPRING THICKNESS	0	1,930
	402AA3	SPRINGS - ANTI-SWAY	SPRINGS, ANTI-SWAY	0	106
	XZXA1X	REAR SUSP. BEAM BUSHINGS	BRONZE	0	36
S	GWXABX	BOGIE SPREAD, REAR	50" AXLE SPACING (BOGIE WHEELBASE)	0	12
S	2AAABX	REAR SPRING INSULATOR MAT'L	URETHANE SHOCK INSULATORS, HEAVY DUTY, HIGHLY RECOMMENDED W/SS582 & SS652 REAR SUSP	0	0
S	XYXB1X	TRANSVERSE TORQUE RODS, R SUSP	TRANSVERSE TORQUE ROD (REAR AXLE ONLY)	0	36
S	253AA4	BRAKES - REAR	MERITOR "S" CAM 16.5"x7" Q+ (Total for QTY = 2)	0	-35
	MAXCAX	BRAKE LINING MATERIAL DRIVE	ABEX 931-162 (MERITOR R301)(REAR EACH AXLE 23,000LBS MAX)	0	0
S	U4XA1X	BRAKE, DRIVE, REAR	CAST IRON	0	0
S	U1AA1X	REAR BRAKE ADJ MANUFACTURE	HALDEX - AUTOMATIC	0	0
S	V1AB1X	REAR BRAKE CHAMBER SIZE	REAR SPRING BRAKE CHAMBERS 30/30 TYPE	0	0
S	300ADD	REAR BRAKE CHAMBER	MGM TR-T; TAMPER-RESISTANT BRAKE CHAMBERS (Total for QTY = 2)	0	0
S	3GAA1X	BRAKE CHAMBER DIAPHRAGM MATERIAL (CA)	W/O BRAKE DIAPHRAGM OPTION	0	0
S	0LX1X	HUB MATERIAL, DRIVE	IRON PRESET REAR HUB W/INTEGRATED SPINDLE NUT	0	0
S	3LAC1X	POWER DIVIDER LOCKOUT	POWER DIVIDER LOCKOUT, W/BUZZER & LIGHT	0	40
S	7WXA1X	LUBRICANTS, REAR AXLE(s)	FACTORY OPTION LUBE - REAR AXLE	0	0
S	9GAAAX	ABS SENSOR & MODULATOR	4S/4M SYSTEM REAR WHEEL END SENSORS	0	0
S	698AA4	ANTILOCK BRAKE SYSTEM	BENDIX WITHOUT TRACTION CONTROL	0	0

FRAME EQUIPMENT/FUEL TANKS				WEIGHT (LB)	
				FRONT	REAR
	271246	WHEELBASE	246"	355	355
CA	374111	AF (OVERHANG)	111"	-99	455
S	274AB2	FRAME RAILS	STEEL-3/8" X 13 3/8" X 3 1/4" (CLASS 8)	0	0
	71XF1X	RUST PROTECTION (for frame), ADDITIONAL (CA)	RUST PROTECTION BETWEEN FRAME RAILS AND LINERS	0	0

TECHNICAL SPECIFICATION (cont.)



FRAME/EQUIPMENT/FUEL TANKS	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
Z9XB3X	FRAME INNER LINER	0	0
S A0XABX	FRONT FRAME LENGTH	146	-19
S 281A1	CROSSMEMBERS	0	0
S AXXA4X	AUX CROSSM. IN REAR OVERHANG	0	0
S Q5AA1X	REAR CROSSMEMBER OPTIONS	0	0
S 2HXD1X	MUDFLAP, FRONT AXLE	0	0
S 4DXA6X	FRONT BUMPER	0	0
S 5EXF1X	GUARD, UNDER FRONT	128	-8
S 4EXD1X	TOWING DEVICE, FRONT	0	0
2RAA1X	FUEL LEVEL SENDER UNIT, LIQUID	0	0
288AH1	FUEL TANK - LH	67	67
290AA1	FUEL TANK - RH	0	0
S JHXC1X	FUEL HOSES, LIQUID	0	0
HBXANX	FUEL TANK POSITION (CA)	0	0
852022	FUEL FILLER NECK OPTIONS	0	0

AIR/BRAKE	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S UWX1X	AIR TANK DRAIN VALVE	0	0
S U2XB1X	AIR TANK MATERIAL	0	0
S KOXA1X	AIR DRYER POSITION (CA)	0	0
S 1JAAAX	PARKING BRAKE VALVE	0	0
3KAB1X	AUXILIARY BRAKE CONTROL	0	0

ELECTRICAL	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 5RXA8X	BACK-UP ALARM	0	0
S 312006	ROOF MARKER LIGHTS	0	0
LJXABX	HEADLIGHT LAMP TYPE	0	0
S LSXH2X	DAYTIME RUNNING LIGHTS	0	0
NEXC1X	TAIL LAMPS	0	0
S M4XAAX	AUX. POWER OUTLET, INTERIOR	0	0
S 3BCB1X	FRONT & SIDE INDICATOR LMP	3	0

TRAILER CONNECTIONS	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 4BAA1X	EXT. INDICATOR LMP, MAIN SWITCH (CA)	0	0

PTO	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 826086	HYDRAULIC PUMP	0	0

TECHNICAL SPECIFICATION (cont.)



PTO	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 183AA2	CRANKSHAFT ADAPTER 1350 SERIES FLANGE (DOES NOT INCLUDE FRONT FRAME EXTENSION)	18	-2
S L3XN1X	BODY BUILDER MODULE ControlLink III BODY BUILDER EL PREP KIT, REFUSE, RP170 ELECT. INTERFACE (3 CON 54 PINS)	0	0

SPECIALTY EQUIPMENT	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 8FXU1X	TRANSPORT ADAPTATION UNIFORM LOAD NO ADAPTATION	0	0

CAB INTERIOR (A THRU G)	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 75AA1X	CAB HEATER UNIT STD HEATER	0	0
S 4AXB1X	CLIMATE UNIT MACK INTEGRAL W/HEATER (COMBO HEATER/AIR CONDITIONER UNIT) W/R134a REFRIGERANT	93	0
S 1PAZ1X	CAMERA, SURVEILLANCE WITHOUT CAMERA	0	0
S 31XABX	FLOOR MATS FLOOR MAT, RUBBER	0	0
S 198048	GAUGES - UNIT OF MEASURE U.S. UNITS (PREDOMINANT)	0	0

CAB INTERIOR (H THRU R)	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 20XA1X	KEY TYPES FOR DOORS ALL CHASSIS KEYED AT RANDOM	0	0
S 17400N	AUDIO ACCOMMODATION PREMIUM STEREO, AM/FM, CD-PLAYER, MP3, WEATHER BAND, BLUETOOTH	0	0
S 73AD1X	ANTENNA - RADIO RADIO ANTENNA, CH STYLE COWL MOUNTED ON LH SIDE	0	0

CAB INTERIOR (S THRU Z)	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 196096	SEAT - DRIVER'S SEARS SEATING C-2 W/FABRIFORM CUSHIONS (MID BACK) AIR SUSPENSION	0	0
4850F0	SEAT COVERING FABRIFORM CLOTH, BLACK, DRIVER SEATS	0	0
5920D2	SEAT BELT(S) LAP & SHOULDER BELTS FOR (2) DRIVER SEATS, TO BE ORANGE IN COLOR	0	0
S 2WXAA1X	STEERING WHEEL TWO SPOKE URETHANE GRIP CHARCOAL SPOKES	0	0
XRXB1X	STEERING WHEEL ADJUSTMENT STEERING COLUMN, ADJUSTABLE TILT TELESCOPE	0	0
S NPXB1X	TURN SIGNALS SELF-CANCELLING TURN SIGNALS	0	0
S JQXAAX	WASHER RESERVOIR POSITION W/O WINDSHIELD WASHER OPTION	0	0
S T2AA1X	WINDSHIELD PROTECTOR FURNISH WINDSHIELD PROTECTOR	16	0

CAB EXTERIOR	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 88AA1X	EMBLEMS OPTION EMBLEMS OPTION, COMPLETE	0	0
S 28XD1X	FRONT GRILLE BLACK EXTENDED CAB VERSION	0	0
14400R	CAB RH & LH SIT DOWN DRIVING POSITION, EXTENDED CAB VERSION	0	0
424007	CAB DOOR OPTIONS LH & RH FRONT HINGED DOORS W/POWER WINDOWS BOTH SIDES	0	0
S 2EXA1X	CAB TILT PUMP LOCATED IN STD LOCATION	0	0
S Q2AA1X	CAB INSTEP VERSION STANDARD 2 STEP CAB ACCESS	0	0

TECHNICAL SPECIFICATION (cont.)



				WEIGHT (LB)	
CAB EXTERIOR		DESCRIPTION		FRONT	REAR
S	154AB0	HORN - AIR	(1) TWIN-UNDER CAB TRUMPET W/DUAL LANYARD CONTROL	0	0
S	LXXC1X	HORN - ELECTRICAL	SINGLE TONE	0	0
	15200B	MIRRORS - EXTERIOR	ELECTRIC HEATED, OPERATED WITH MEMORY	0	0
S	153023	MIRRORS - CONVEX TYPE CAB DOORS	BLACK SQUARE HEATED CONVEX MIRROR - (except on bi-fold doors)	0	0

				WEIGHT (LB)	
COMMUNICATION SYSTEMS		DESCRIPTION		FRONT	REAR
S	Y7CA1X	DIAGNOSTICS DISPLAY IN CLUSTER	DIAGNOSTICS DISPLAY IN CLUSTER, BASIC	0	0
S	M30060	TELEMATIC GATEWAY	TELEMATICS GATEWAY, 4G/LTE AND WLAN SYSTEM WITH DIAGNOSTIC SERVICES	0	0
	2JCA1X	REMOTE DIAG SERVICES	REMOTE DIAGNOSTIC SERVICES, ENABLED	0	0

				WEIGHT (LB)	
ENGINE ELECTRONICS		DESCRIPTION		FRONT	REAR
S	WOXA1X	OIL PRESSURE, ENGINE SHUTDOWN	OIL PRESSURE, ENGINE SHUTDOWN	0	0
S	WMXA1X	COOLANT TEMP, ENGINE SHUTDOWN	COOLANT TEMP, ENGINE SHUTDOWN	0	0
S	K5XA2X	ENGINE PROTECTION SYSTEM	ENGINE PROTECTION (SHUTDOWN)	0	0
S	K7XH3X	ENGINE IDLE CONTROL	IDLE CONTROL, 650 RPM	0	0
S	X0AB0X	SMART IDLE ELEVATED IDLE RPM TIME	INCREASE 10 MINUTE MAXIMUM TIME	0	0
S	M3CA1X	IDLE S/D ABS TAMPER CHECK	IDLE SHUTDOWN ABS TAMPER CHECK, ENABLED	0	0
	A3AAAX	IDLE SHUTDOWN	ENGINE IDLE SHUTDOWN, ENABLE	0	0
S	E0XGAX	ENGINE IDLE SHUTDOWN TIME	IDLE SHUTDOWN TIME 10 MIN.	0	0
S	B1ACAX	IDLE S/D WARNING TIME	30 SEC IDLE S/D WARNING TIME	0	0
S	A8AALX	IDLE S/D IF WARM-UP TEMP	38C DEG (100F), WARM UP TEMP DELAY	0	0
S	A4AAEX	IDLE S/D WARM-UP TIMER	5 MIN. WARM UP TIME DELAY	0	0
S	A6AABX	IDLE S/D IF PTO ACTIVE	ENGINE IDLE SHUTDOWN TIME OVERRIDDEN IF PTO ACTIVE	0	0
S	B0AAAX	IDLE SHUTDOWN IF POWER > LIMIT	ENG IDLE SHUTDOWN TIME OVERRIDDEN IF TORQUE > THAN LIMIT	0	0
S	D2AADX	AMBIENT TEMP MIN TRESHOLD	AMBIENT TEMP MIN TRESHOLD, 10 DEG C, (50 DEG F)	0	0
S	D3AAEX	AMBIENT TEMP MAX TRESHOLD	AMBIENT TEMP MAX TRESHOLD, 27 DEG C, (80 DEG F)	0	0
S	B3ABAX	EL HD THROTTLE, MAX ROAD SPEED	ELECTRONIC HAND THROTTLE, MAX ROAD SPEED, 16 KMH (10 MPH)	0	0
S	B6ACEX	EL HAND THROTTLE, MAX ENG SPEED	ELECTRONIC HAND THROTTLE, MAX ENGINE SPEED, 2100 RPM	0	0
S	B4ADAX	EL HAND THROTTLE, MIN ENG SPEED	ELECTRONIC HAND THROTTLE, MIN ENGINE SPEED, 700 RPM	0	0
S	B9AABX	EL HD THROTTLE, SPEED RAMP RATE	ELECTRONIC HAND THROTTLE, SPEED RAMP RATE, 100 RPM/SEC	0	0

				WEIGHT (LB)	
TRANSMISSION ELECTRONICS		DESCRIPTION		FRONT	REAR
S	779029	TRANSMISSION ELECTRONICS PACKAGE	GENERAL REFUSE SERVICE - LIMITING TO 2ND GEAR IN SECONDARY MODE (RH DRIVING POSITION)	0	0
S	MAV01V	TRANSMISSION ELECTRONIC SHIFTING PROPERTIES	W/O ALLISON FUELSENSE 2.0 PROGRAMMING	0	0

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TECHNICAL SPECIFICATION (cont.)

MACK.

VEHICLE ELECTRONICS				WEIGHT (LB)	
				FRONT	REAR
S	JCXE6X	ROAD SPEED LIMITER SETTING	105 KM/H ROAD SPEED LIMITER(65 MPH)	0	0
S	Y3CC5X	PEDAL RSL SETTING	105 KM/H PEDAL ROAD SPEED LIMITER (65MPH)	0	0
S	JDXA1X	CRUISE CONTROL	CRUISE CONTROL	0	0
S	JFXLLX	CRUISE CONTROL, MAX SPEED	MAX CRUISE, 105 KPH (65 MPH)	0	0
S	E3AACX	CRUISE CONTROL MIN SPEED	MIN CRUISE, 32 KPH (20 MPH)	0	0
S	L2CA1X	PDLO ENGAGED VLS	POWER DIVIDER LOCK OUT (PDLO) ROAD SPEED LIMIT 8KMH (5MPH)	0	0
S	A4BAAX	DETECTION SPEED SENSR TMPRNG	DETECTION OF SPEED SENSOR TAMPERING, ENABLE	0	0
S	8RXAEX	ENG TORQUE LIMIT, SPEED SENSOR	ENG TORQUE LIMITED TO 50%, IF SPEED SENSOR TAMPER DETECTED	0	0
S	G5AAHX	ENGINE OVERSPEED, ALL COND, LOG	ENGINE OVERSPEED, ALL CONDITIONS, TIME LOG IF ABOVE 2200 RPM	0	0
S	G2AAGX	ENGINE OVERSPEED, FUELED, LOG	ENGINE OVERSPEED, FUELED, TIME LOG IF ABOVE 2100 RPM	0	0
S	G4AAUX	VEHICLE OVERSPEED, ALL COND, LOG	VEHICLE OVERSPEED, ALL COND, TIME LOG IF ABOVE 75MPH (121KMH)	0	0
S	G3AAPX	VEHICLE OVERSPEED, FUELED, LOG	VEHICLE OVERSPEED, FUELED, TIME LOG IF ABOVE 70MPH (113KMH)	0	0
S	G1ABX	ENGINE IDLE DELAY TO LOG	ENGINE IDLE DELAY TO START LOG, 2 MIN	0	0
S	W9A01X	PERIODIC TRIP LOG DAY OF MONTH	PERIODIC TRIP LOG, DAY 1 OF THE MONTH	0	0
S	X5AB1X	VEHICLE APP SERVICE INTERVALS	SERVICE INTERVALS, VOCATIONAL APPLICATION	0	0
S	W8BAAX	SERVICE ALERT	WITH SERVICE ALERT	0	0
S	W5A90X	MAINTENANCE DUE ALERT %	ACTIVATE ALERT AT 90% OF THE TIME/DISTANCE SETTING	0	0

PTO/ELECTRONICS				WEIGHT (LB)	
				FRONT	REAR
S	F3AAEX	PTO1 SINGLE SPEED CONTROL RPM	PTO 1ST, SINGLE SPEED SETTING, 1000 RPM	0	0
S	F5AABX	PTO 1ST, MAX ROAD SPEED	1ST PTO, MAX ROAD SPEED, 10 MPH (16 KPH)	0	0
S	F6AABX	PTO 1ST, SPEED RAMP RATE	PTO 1ST, SPEED RAMP RATE 100 RPM/SEC	0	0
S	F7AAPX	PTO 1ST, MAX ENGINE SPEED	PTO 1ST, MAX ENGINE SPEED, 2100 RPM	0	0
S	F8AAGX	PTO 1ST, ROAD SPEED LIMIT	PTO 1ST, ROAD SPEED LIMIT, 97 KMH (60 MPH)	0	0
S	F9AABX	PTO 1ST, MINIMUM ENGINE SPEED	PTO 1ST, MINIMUM ENGINE SPEED, 600 RPM	0	0
S	L8CB1X	PTO1 DECEL BUMP-DOWN RPM	PTO1 DECEL "BUMP-DOWN" 50RPM	0	0
S	H6AAEX	PTO 2ND, SINGLE SPEED SETTING	PTO2 SINGLE SPEED SETTING, 1000 RPM	0	0
S	H0AABX	PTO 2ND, MAX ROAD SPEED	2ND PTO, MAX ROAD SPEED, 10 MPH (16 KPH)	0	0
S	G9AABX	PTO 2ND, SPEED RAMP RATE	PTO 2ND, SPEED RAMP RATE 100 RPM/SEC	0	0
S	H7AANX	PTO 2ND, MAX ENGINE SPEED	PTO 2ND, MAX ENGINE SPEED, 2100 RPM	0	0
S	H5AAGX	PTO 2ND, ROAD SPEED LIMIT	PTO 2ND, ROAD SPEED LIMIT, 97 KMH (60 MPH)	0	0
S	G8AABX	PTO 2ND, MINIMUM ENGINE SPEED	PTO 2ND, MINIMUM ENGINE SPEED, 600 RPM	0	0

PAINT				WEIGHT (LB)	
				FRONT	REAR
S	950AA4	PAINT DESIGN	SINGLE COLOR	0	0
S	924014	PAINT TYPE	SOLID PAINT	0	0
S	944AA7	PAINT COLOR - FIRST COLOR	MACK WHITE; P9188	0	0
S	945998	PAINT COLOR - SECOND COLOR	NO SECOND TRUCK COLOR PROVIDED; NO COLOR	0	0
S	946998	PAINT COLOR - THIRD COLOR	NO THIRD TRUCK COLOR PROVIDED; NO COLOR	0	0

TECHNICAL SPECIFICATION (cont.)



PAINT	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S MPB944	CAB COLOR SAME AS FIRST COLOR - CAB	0	0
S 996AA3	PAINT - CAB PAINT SYSTEM PAINT - CAB, URETHANE CLEAR COAT	0	0
922001	CHASSIS RUNNING GEAR PROCESS CODE CHASSIS PAINT PROCESS, STANDARD COLOR (MACK BLACK) 6ABZ1X	0	0
S 951AA6	CHASSIS RUNNING GEAR MACK BLACK (URETHANE)	0	0
S 958018	BUMPER PAINT BUMPER SAME COLOR AS CHASSIS RUNNING GEAR	0	0
959019	FUEL TANK - ***NO INVENTED VARIANTS ALLOWED In the FUEL TANK PAINT FAMILY*** W/O OPTIONAL FUEL TANK PAINT	0	0
S 07XZ1X	FRONT WHEEL PAINT WITHOUT FRONT WHEEL PAINT	0	0
08XC1X	DRIVE WHEEL PAINT WITHOUT DRIVE WHEEL PAINT	0	0
S 954AA1	PAINTED DISC WHEELS, FRONT WITHOUT PAINT	0	0
S 955AA1	PAINTED DISC WHEELS, REAR WITHOUT PAINT	0	0
S 962032	HUBS & DRUMS-FRONT SAME AS CHASSIS RUNNING GEAR	0	0
S 963033	HUBS & DRUMS-REAR SAME AS CHASSIS RUNNING GEAR	0	0

CALCULATED CODES - KAX	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 9JXA1X	PROPCALC SELECTION YES, THE ORDER MUST BE CALCULATED	0	0

BASE WARRANTY & PURCHASED COVERAGES	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 898003	VEHICLE WARRANTY TYPE HEAVY DUTY WARRANTY CLASSIFICATION	0	0
S M50030	BASIC CHASSIS COVERAGE HEAVY DUTY STANDARD BASE COVERAGE 12 MONTHS/100,000 MILES (161,000 KM)	0	0
M51E31	ENGINE WARRANTY ENG PLAN 2: 60 MO/250K MI-EXT ENGINE COVERAGE MP7/MP8 <460HP	0	0
S M52022	EMISSION COMPONENT COVERAGE US and CANADA EQUIPPED VEHICLE EMISSION COMPONENTS COVERAGE 60 MONTHS/100,000 MILES (161,000 KM)	0	0
M53083	ENGINE AFTERTREATMENT SYSTEM EATS: 60 MO/250K MI-ENGINE AFTERTREATMENT	0	0
S M540B4	TRANSMISSION WARRANTY ALLISON TRANSMISSIONS (Contact Allison Transmission for standard warranty and extended coverage data)	0	0
S M55035	CARRIER & AXLE HOUSING WARRANTY STANDARD MACK HEAVY DUTY COVERAGE 36 MONTHS / 350,000 (563,000 KM)	0	0
S M56026	AIR CONDITIONING WARRANTY AIR CONDITIONING STANDARD COVERAGE (Sealed System Only) 12 MONTHS UNLIMITED MILEAGE	0	0
S M57027	CHASSIS TOWING WARRANTY STANDARD NORMAL / HEAVY DUTY CHASSIS TOWING 90 DAYS OR 5,000 MILES	0	0
S M58028	ENGINE TOWING WARRANTY STANDARD MACK ENGINE TOWING COVERAGE 24 MONTHS/250,000 MILES (402,000 KM)	0	0
M69089	GUARDDOG CONNECT BUNDLE NO GUARDDOG CONNECT (ASIST & MACK ONECALL)	0	0
S M67017	PREMIUM MAINTENANCE - CHASSIS LUBE AND INSPECTION W/O PREMIUM MAINTENANCE - CHASSIS LUBE AND INSPECTION COVERAGE	0	0

ADDITIONAL ENGINEERING (NonApproved)	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
CA 1		0	0

FRONT / REAR AXLE WEIGHTS (LB) 12055 8279
 TOTAL WEIGHT (LB) 20334

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