

TECHNICAL SPECIFICATION

GRANITE 84FR



			WEIGHT (LB)	
APPLICATION PACKAGES	DESCRIPTION		FRONT	REAR
MPK07K	CHASSIS CONFIGURATION PACKAGE	ONEBOX EATS, LH BATTERY BOX, 6.6 GALLON (25L) SLEEVED DEF, 22" SLEEVED LH FUEL TANK	0	0

			WEIGHT (LB)	
CUSTOMER/VEHICLE INFO	DESCRIPTION		FRONT	REAR
S	0028E2	CHASSIS (BASE MODEL)	5,042	1,830
S	99X93X	ASSEMBLY PLANT	0	0
	MP2001	CUSTOMER FLEET SIZE	0	0
S	013001	TYPE OF SERVICE	0	0
S	M98018	WARRANTY REGISTRATION LOCATION	0	0
	MBT01T	EMISSION WARRANTY CERTIFICATION	0	0
S	5050B5	INITIAL REGISTRATION LOCATION	0	0
S	534014	LANGUAGE-PUBS/DECAL/SIGNS	0	0
S	DHX10X	ROAD CONDITION	0	0
	005145	VEHICLE USE & BODY/TRAILER TYPE	0	0
	2KEZ1X	TRAILER TYPE	0	0
S	DKX99X	GROSS COMBINATION WEIGHT (CA in PC29 only)	0	0
S	7OBB1X	BRAKE REGULATION	0	0
	QCXB1X	TOPOGRAPHY	0	0
S	E1BD1X	AMBIENT TEMP UPPER LIMIT (GTA)	0	0
S	032A89	OPERATING TERRAIN GRADE CONDITIONS	0	0
S	033A10	LOADING SURFACE FACTOR	0	0
	0342A2	VEHICLE VOCATION	0	0

			WEIGHT (LB)	
ENGINE/TRANSMISSIONS	DESCRIPTION		FRONT	REAR
S	1004M0	ENGINE PACKAGE, COMBUSTION	1,855	463
S	3GCB1X	GHG APPLICATION, VEHICLE	0	0
	136AG2	TRANSMISSION	605	201
S	V4EZ9X	GEARBOX 12TH GEAR LOCK-OUT	0	0

			WEIGHT (LB)	
EXHAUST/EMISSIONS	DESCRIPTION		FRONT	REAR
	CIRAA2	CARB 2008 IDLE REGULATION	0	0
S	DPF04F	DPF DIESEL PARTICULATE FILTER	0	0
S	MCF07F	CHASSIS MOUNTED EMISSIONS FINISH	0	0
S	DF1001	DIESEL EXHAUST FLUID TANK	89	31
S	130AB6	EXHAUST	0	0
S	KRXB5X	EXHAUST STACK HEIGHT	0	0

TECHNICAL SPECIFICATION *(cont.)*



				WEIGHT (LB)	
EXHAUST/EMISSIONS		DESCRIPTION		FRONT	REAR
S	Q0AA1X	EXHAUST SYSTEM MATERIAL FINISH	W/O BRIGHT FINISH EXHAUST	0	0
	78ADCX	EMISSION ON BOARD DIAG CONTROL	EMISSION OBD, DISPLAY ONLY, USA2023	0	0

				WEIGHT (LB)	
ENGINE EQUIPMENT		DESCRIPTION		FRONT	REAR
S	125045	AIR CLEANER	UNDER HOOD SINGLE ELEMENT DRY TYPE W/AIR INTAKE FROM BOTH SIDES OF HOOD	0	0
S	121AA5	BUG SCREEN	BLACK ALUMINUM BUG SCREEN MOUNTED BEHIND GRILLE, WITHOUT WINTER FRONT COVER	0	0
S	1130G3	AIR COMPRESSOR/DRYER	WABCO HEATED SS-HP AIR DRYER W/ WABCO 636 (37.4 CFM) AIR COMPRESSOR	0	0
S	KOXA1X	AIR DRYER POSITION (CA)	AIR DRYER POSITION STANDARD	0	0
S	132AB9	ALTERNATOR	DELCO 12V 160A (28SI) BRUSH-TYPE	16	0
S	316AA6	BATTERIES	(3) MACK 12V 650/1950 CCA THREADED STUD TYPE	0	0
S	393AA2	BATTERY BOX - MOUNTING (x)	LH RAIL UNDER CAB FORWARD OF FUEL TANK (3 BATTERY MAX)	-8	-4
S	L5XA1X	BATTERY BOX COVER	MOLDED PLASTIC	0	0
S	NCXA5X	STARTER MOTOR	12 VOLT DELCO 39MT-MXT	31	0
	110AA5	ENGINE BRAKE	MACK MP7 POWERLEASH	0	0
S	118AB8	FAN DRIVE	BEHR FAN AND ELECTRONIC MODULATING VISCOUS FAN DRIVE	0	0
S	119AI9	COOLANT PROTECTION	ETHYLENE GLYCOL FULLY FORMULATED COOLANT (50/50 MIX DYED PINK) TO -34DEG, W/ FILTER	0	0
S	124AA3	HOSES - RADIATOR/HEATER	MACK EPDM RADIATOR & HEATER HOSES	0	0
S	293043	FUEL-WATER SEPARATOR	MACK W/MANUAL DRAIN VALVE V2 (INTEGRAL W/ PRIMARY FUEL FILTER)	0	0
S	MBXA1X	PRIMARY FUEL FILTER POSITION (CA)	STANDARD FUEL FILTER POSITION	0	0
S	MCA04A	ENGINE HEATERS	120v 1500w BLOCK HEATER ONLY (120V-15A PLUG)	0	0
	5NXA1X	ENGINE BLOCK HEATER	120V 1500W ENGINE BLOCK HEATER	5	0
S	QHXC1X	OIL SUMP	OIL PAN	0	0
S	2YBZ1X	ENGINE STOP, EMERGENCY (CA in PC29 only)	WITHOUT ENGINE STOP, EMERGENCY	0	0

				WEIGHT (LB)	
CLUTCH/TRANS EQUIPMENT		DESCRIPTION		FRONT	REAR
	492032	GEAR SHIFTER	EATON/FULLER SHIFTER	0	0
	133AD1	CLUTCH	EATON ADVANTAGE EZ-PEDAL 9-SPRING,2PLATE 15.5" CERAMIC 6 PADDLES, MANUAL ADJUST	5	0
	MCB04B	CLUTCH ACTUATION SYSTEM & PEDAL PAD	MECHANICAL CLUTCH CABLE SYSTEM WITH RUBBER PEDAL	0	0
	2XAB1X	CLUTCH PEDAL PAD	RUBBER PAD	3	0
	1950L5	DRIVELINE - MAIN	SPICER SPL350HDXL LITE - 2XLARGE (PROPS2XL)	60	60
	204054	DRIVELINE - INTERAXLE	SPICER SPL250XL "LITE SERIES"	0	0
	76AA1X	PROPELLR SHAFT MAIN, UNVSL JNT	UNIVERSAL JOINT HALF-ROUND TYPE	0	0
S	8WAAAX	PROP SHAFT INTERAXL UNIV JOINT	HALF-ROUND UNIVERSAL JOINT	0	0
S	4LDA1X	TRANSMISSION OUTPUT TORQUE	TRANSMISSION OUTPUT TORQUE BASIC	0	0
S	RCXB1X	BELL HOUSING	ALUMINUM	0	0
	7RXB1X	LUBRICANTS, TRANSMISSION	SYNTHETIC OIL IN TRANSMISSION	0	0
	139AA2	TRANSMISSION OIL COOLER	TRANS OIL COOLER (INTEGRAL OIL PUMP)	45	3

TECHNICAL SPECIFICATION *(cont.)*



			WEIGHT (LB)		
FRONT AXLE EQUIPMENT		DESCRIPTION	FRONT	REAR	
	240AA8	FRONT AXLE	16500# (7500 KG) MACK FXL16.5 STRAIGHT SPINDLE/UNITIZED BEARINGS	325	0
	244AC0	SPRINGS - FRONT	MACK TAPERLEAF 16500# (7500 KG) GROUND LOAD RATING, EQUAL BIAS	27	0
S	241081	FRONT AXLE BRAKES	MERITOR "S" CAM TYPE 16.5" x 6" Q+	29	0
S	U3XA1X	BRAKE, FRONT	CAST IRON	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	61500A	FRONT AXLE LUBRICANT	FRONT AXLE LUBE, FAG NLGI2 GREASE	0	0
S	1KAA1X	SHOCK ABSORBER, FRONT	DOUBLE ACTING TYPE	0	0
S	245AA9	STEERING	SHEPPARD SD110	111	0

			WEIGHT (LB)		
REAR AXLE EQUIPMENT		DESCRIPTION	FRONT	REAR	
S	268AB1	REAR AXLE	38000# (17200kg) MACK S38R FABRICATED STEEL HOUSING	0	1,420
S	6MAA1X	REAR AXLE CASING WIDTH	W/O WIDE TRACK AXLE	0	0
S	617003	DRIVE AXLE LUBRICANT	DRIVE AXLE LUBE, SHELL 75W90 SYNTHETIC OIL	0	0
S	018AA6	CARRIER - REAR AXLE	CRDP150/151 AVAILABLE WITH OPTIONAL DRIVER CONTROLLED INTERWHEEL DIFFERENTIAL LOCKS, SEE 254 SYMBOL	0	0
	TAXAVX	REAR AXLE RATIO	3.79 RATIO	0	0
S	1860G6	REAR SUSPENSION	SS38 MACK CAMELBACK MULTILEAF 38,000 lb, HEAVY DUTY	0	1,451
	402AA3	SPRINGS - ANTI-SWAY	SPRINGS, ANTI-SWAY	0	104
	XZXA1X	REAR SUSP. BEAM BUSHINGS	BRONZE	0	36
S	GWXABX	BOGIE SPREAD, REAR	50" AXLE SPACING (BOGIE WHEELBASE)	0	-85
	2AAABX	REAR SPRING INSULATOR MAT'L	URETHANE SHOCK INSULATORS, HEAVY DUTY, HIGHLY RECOMMENDED W/SS582 & SS652 REAR SUSP	0	5
S	XYXB1X	TRANSVERSE TORQUE RODS, R SUSP	TRANSVERSE TORQUE ROD (REAR AXLE ONLY)	0	67
S	237037	AUX.SPRING BRAKE QTY	AUX SPRING BRAKE QTY, 4 CHAMBERS	0	20
S	253AA4	BRAKES - REAR	MERITOR "S" CAM 16.5"x7" Q+ (Total for QTY = 2)	0	-39
S	U4XA1X	BRAKE, DRIVE, REAR	CAST IRON	0	0
S	U1AA1X	REAR BRAKE ADJ MANUFACTURE	HALDEX - AUTOMATIC (Total for QTY = 2)	0	0
	V1AB1X	REAR BRAKE CHAMBER SIZE	REAR SPRING BRAKE CHAMBERS 30/30 TYPE	0	0
	N5FAJX	BRAKE ORI REAR-MOST DRIVE AXLE	DRUM BRAKE CHAMBER ORIENTATION: High Mount - Rear of Axle - Chamber Down	0	0
S	300AB8	PARKING BRAKE CHAMBER	MGM TR3030LP3THD BRAKE CHAMBERS (Total for QTY = 2)	0	0
S	0LXI5X	HUB MATERIAL, DRIVE	IRON PRESET REAR HUB W/INTEGRATED SPINDLE NUT	0	318
S	3LAC1X	POWER DIVIDER LOCKOUT	POWER DIVIDER LOCKOUT, W/BUZZER & LIGHT	0	40
	698058	ANTILOCK BRAKE SYSTEM	BENDIX WITHOUT TRACTION CONTROL 4S4M	0	0
S	URXD1X	BRAKE VALVE VERSION	BENDIX SWITCHES AND VALVES WHERE POSSIBLE	0	0
S	3ZAA1X	SPRING BRAKE INVERSION VALVE	TRACTOR SPRING BRAKE INVERSION VALVE	5	0

			WEIGHT (LB)		
PUSHER/TAG AXLE EQUIPMENT		DESCRIPTION	FRONT	REAR	
S	MA2052	AUXILIARY AXLES (x)	(1) HENDRICKSON 13K COMPOSILITE STEERABLE PUSHER AXLE (LIFTABLE), FF-SERIES WHEEL ENDS	404	825
S	MA7087	FIRST AUXILIARY AXLE SPACING	48" (1220mm) 1st AUX AXLE SPACING	0	0

TECHNICAL SPECIFICATION *(cont.)*



				WEIGHT (LB)	
PUSHER/TAG AXLE EQUIPMENT		DESCRIPTION		FRONT	REAR
S	0NXD1X	HUB MATERIAL, TRAILING	ALUMINUM PRESET HUB, TRAILING W/ INTEGRATED SPINDLE NUT	0	0
S	618005	PUSHER AXLE LUBRICANT	PUSHER AXLE LUBE, CHEVRON DELO 80W90 MINERAL OIL	0	0
S	MA3093	BRAKES - AUXILIARY AXLE (x)	HENDRICKSON 15X5 CAST AUXILIARY AXLE BRAKES (8x4/10x4 13k)	0	0
S	UFXA1X	TRAIL. AXLE BRAKE DUST SHIELD	DUST SHIELDS FOR AUXILLARY AXLE	0	0
S	MAD07D	BRAKE CHAMBERS MFG - AUXILIARY AXLE	AUXILIARY AXLE BRAKE CHAMBER MANUFACTURER, HALDEX	0	0
S	MAE02E	SLACK ADJUSTER - AUXILIARY AXLE	AUXILIARY AXLE BRAKE ADJUSTMENT, AUTOMATIC HALDEX	0	0
	MAC09C	AUXILIARY AXLE CONTROLS	MANUAL LIFT AUX AXLE CONTROLS - (BASIC HEIGHT)	0	0
S	9GDB1X	AUX AXLE CTRL VALVE LOCATION	AUXILIARY AXLE CONTROL PRESSURE VALVE LOCATION, RHS	0	0

				WEIGHT (LB)	
FRAME EQUIPMENT/FUEL TANKS		DESCRIPTION		FRONT	REAR
	271222	WHEELBASE	222"	16	16
	374057	AF (OVERHANG)	57"	0	131
S	MCE05E	FRAME RAILS & LINERS	8 x 90 x 300mm - (0.31" x 3.54" x 11.81"); RBM 2,120,000 LB-IN	0	0
S	A0XH1X	FRONT FRAME LENGTH	FRONT FRAME LENGTH 725MM	0	0
S	281AA5	CROSSMEMBERS	BOC AND INTERMEDIATE(S) STEEL HD BACK-TO-BACK CHANNEL	0	0
S	Q5AA1X	REAR CROSSMEMBER OPTIONS	STEEL CLOSING REAR CROSSMEMBER	-8	49
S	X6XA1X	REAR FRAME TREATMENT	WITHOUT TAPERED FRAME RAIL ENDS	0	0
	4DXA6X	FRONT BUMPER	FLUSH-PAINTED STEEL	-11	3
	4EXF1X	TOWING DEVICE, FRONT	(2) CLEVIS	0	0
S	2RAA1X	FUEL LEVEL SENDER UNIT, LIQUID	BASIC FUEL LEVEL SENDER MOUNTED ON L.H TANK	0	0
S	288AF2	FUEL TANK - LH	66 GALLON (250 L) 22" ALUMINUM, SLEEVED D-SHAPED	142	71
S	290AA1	FUEL TANK - RH	W/O RH FUEL TANK	0	0
S	JHXB1X	FUEL HOSES, LIQUID	BRAIDED HOSE	5	3
S	8520C2	FUEL FILLER NECK OPTIONS	WITHOUT FILLER NECK SCREEN, WITH NON-LOCKABLE FUEL TANK CAP	0	0
	12AA1X	FUEL LINE OPTIONS, LIQUID	W/O FUEL LINE OPTION	0	0
S	Q2AA1X	CAB INSTEP VERSION	STANDARD 2 STEP CAB ACCESS	0	0
S	223AA3	STEPS (BRIGHT) - FUEL TANK	STANDARD FINISH STEPS AND BRIGHT FINISH STRAPS	0	0

				WEIGHT (LB)	
AIR/BRAKE		DESCRIPTION		FRONT	REAR
S	UWXC1X	AIRTANK DRAIN VALVE	MANUAL (PETCOCK) DRAIN VALVES ON ALL TANKS	0	0
S	U2XB1X	AIRTANK MATERIAL	STEEL AIR TANK PAINTED CHASSIS COLOR	0	0
S	141AA1	RELOCATE AIR RESERVOIRS	W/O RELOCATED AIR TANKS	0	0
S	1JAAAX	PARKING BRAKE VALVE	SINGLE VALVE SYSTEM	0	0

				WEIGHT (LB)	
ELECTRICAL		DESCRIPTION		FRONT	REAR
S	3120A2	ROOF & SIDE MARKER LIGHTS	(5) TRUCKLITE CHROME BULLET ROOF MARKER & STANDARD MARKER / DIRECTIONAL SIGNAL	0	0
S	LJXCAX	HEADLAMP BULB TYPE	HEADLAMP BULB TYPE, LED, HEATED	0	0
S	LSXJ7X	DAYTIME RUNNING LIGHTS	W/OVERRIDE SWITCH, PARK BRAKE & ENGINE RUNNING ACTIVATED	0	0

TECHNICAL SPECIFICATION *(cont.)*



				WEIGHT (LB)	
ELECTRICAL		DESCRIPTION		FRONT	REAR
S	X2AA1X	DRL OVERRIDE SPEED THRESHOLD	DRL OVERRIDE SPEED THRESHOLD 8 KMPH (5 MPH)	0	0
S	NEXC1X	TAIL LAMPS	INCANDESCENT TAIL LAMPS	0	7

				WEIGHT (LB)	
TRAILER CONNECTIONS		DESCRIPTION		FRONT	REAR
S	WGXB1X	TRAILER BRAKE VALVE	W/O HAND CONTROL VALVE	-6	0
S	3SAZ1X	TRAILER CONNECTORS HOLDER	OMIT TRAILER CONNECTORS HOLDER	3	0

				WEIGHT (LB)	
PTO		DESCRIPTION		FRONT	REAR
	TYXE1X	POWER TAKE OFF CONTROL	TRANSMISSION PTO SWITCH AND LIGHT WITH WIRING AND PIPING FOR LOCAL INSTALLATION	3	0
S	B83083	BODY BUILDER INTERFACE	BODY LINK III W/CAB PASS-THRU	5	5

				WEIGHT (LB)	
SPECIALTY EQUIPMENT		DESCRIPTION		FRONT	REAR
S	MCQ01Q	LANE SUPPORT SYSTEM (LSS)	WITHOUT LANE SUPPORT SYSTEM	0	0
S	2PEZ1X	DATA CAPTURE	WITHOUT DATA CAPTURE	0	0
S	1PAZ1X	CAMERA, SURVEILLANCE	WITHOUT CAMERA	0	0

				WEIGHT (LB)	
CAB INTERIOR (A THRU G)		DESCRIPTION		FRONT	REAR
S	198048	SPEEDOMETER -&- GAUGES - UNIT(S) OF MEASURE	U.S. UNITS (PREDOMINANT)	0	0
	E1AAAX	GAUGE OIL TEMP-REAR AXLE	REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY)	0	0
S	173AA5	AIR CONDITIONING/HEATER	BLEND AIR HVAC W/"ATC" TEMP REGULATION	0	0
S	EEXA1X	CUPHOLDER	CUPHOLDER	0	0
S	I0XAHX	DOME LAMP, INTERIOR	(4) DOME LAMPS - DOOR AND SWITCH ACTIVATED	0	0
S	3XAA1X	DASH INDICATOR - LAMP BODY OUT OF POS	DASH MTD, INDICATOR BODY/HOIST UP "BODYBUILDER LAMP"	0	0
S	184AA2	FLOOR COVERING	POLYURETHANE FLOOR MAT WITHOUT REMOVABLE INSERTS	0	0

				WEIGHT (LB)	
CAB INTERIOR (H THRU R)		DESCRIPTION		FRONT	REAR
S	C52082	INSTMNT CLUSTER LANGUAGE	DEFAULT: ENGLISH, SPANISH, FRENCH	0	0
S	20XA1X	KEY TYPES FOR DOORS	ALL CHASSIS KEYED AT RANDOM	0	0
S	13AA1X	DOOR OPENING OPTIONS	W/O ELECTRONIC KEYLESS ENTRY	0	0
S	E3XD1X	FORWARD OVERHEAD STORAGE	(2) STORAGE COMPARTMENTS AND NET RETAINERS W/CENTER MOUNTING FOR CB PROVISIONS	0	0
	174AA1	AUDIO ACCOMMODATION	W/O RADIO OR RADIO ACCOMMODATION PACKAGE	-8	0
S	1WAB1X	POWER LEADS	POWER LEADS (5-WAY BINDING POSTS FOR CB RADIO) IN HEADER CONSOLE	0	0
	5CXAEX	AUDIO SPEAKER LOCATION	SPEAKER LOCATION, BEHIND DOORS, MIDDLE HIGH SIDE PANEL	0	0
S	5JXAIX	COM.RADIO PREP KIT (CB)	CB RADIO MOUNTING REINFORCEMENT IN HEADER CONSOLE	0	0
S	IFXB1X	REAR WALL STORAGE COMPARTMENT	STORAGE POUCH REAR	5	0

TECHNICAL SPECIFICATION *(cont.)*



				WEIGHT (LB)	
CAB INTERIOR (S THRU Z)		DESCRIPTION		FRONT	REAR
S	004014	INTERIOR TRIM LEVELS	STANDARD PACKAGE, STEEL GRAY (Package 11A)	0	0
S	196AAA	SEAT - DRIVER'S	MACK-AIR, HIGH BACK, 1 CHAMBER AIR LUMBAR	71	16
S	MAPB2X	SEAT COVERING - DRIVER'S	DRIVER'S SEAT - STEEL GREY VINYL	0	0
	592082	SEAT BELT(S)	LAP & SHOULDER (DRIVER'S SEAT ONLY)	0	0
S	D8XC1X	SEAT BELT REMINDER	SEAT BELT REMINDER IN INSTRUMENT, WITH AUDIO	0	0
S	2QAA1X	IGNITION TYPE	KEY TYPE	0	0
S	161011	STEERING WHEEL	2 SPOKE URETHANE GRIP, SATIN ALUMINUM SPOKES, WITH SWITCHES	0	0
S	WSXBAX	WINDSHIELD TYPE	TWO PIECE WINDSHIELD	0	0
S	145AA1	CAB GLASS	TINTED WINDSHIELD & SIDE WINDOWS & REAR WINDOW (IF EQUIPPED)	0	0
S	JQXAAX	WASHER RESERVOIR POSITION	W/O WINDSHIELD WASHER OPTION	0	0
S	148AA3	WINDSHIELD WIPERS	2 SPEED ELECTRIC MOTOR W/INTERMITTENT FEATURE	0	0

				WEIGHT (LB)	
CAB EXTERIOR		DESCRIPTION		FRONT	REAR
S	MCY02Y	HOOD LATCH TYPE & FINISH	STRAP TYPE HOOD LATCH WITH BLACK FINISH	0	0
S	MCG0AG	EXTERIOR TRIM FINISH AND PACKAGES	GRANITE BRIGHT AIR INTAKE	0	0
S	400010	GRILLE	BLACK FINISH BARS W/BRIGHT FINISH SURROUND GRILL MOUNTED	0	0
S	MCD03D	PASSENGER SIDE VISIBILITY OPTIONS	AUXILIARY WINDOW IN RH DOOR	3	0
S	2KXB1X	FRONT WHEEL OPENING	FENDER EXTENSIONS	5	0
S	5870G7	GRAB HANDLES	PREMIUM BLACK EXTERIOR CAB GRAB HANDLE, BLACK GRAB HANDLE RH INTERIOR WINDSHIELD POST	0	0
S	154AA2	HORN - AIR	(1) MACK RECTANGULAR SINGLE TRUMPET	5	0
S	LXXD1X	HORN - ELECTRICAL	DUAL TONE	5	0
S	1520B2	MIRRORS - EXTERIOR	FLAT MIRROR - POLISHED ALUMINUM FINSH, W/O LAMPS	0	0
S	153AA2	MIRRORS - CONVEX TYPE CAB DOORS	BRIGHT FINISH, LH & RH, 8" DIAMETER CONVEX	0	0

				WEIGHT (LB)	
AERODYNAMIC DEVICES		DESCRIPTION		FRONT	REAR
S	159AA1	CAB AERODYNAMIC PACKAGES	WITHOUT CAB AERODYNAMIC DEVICES	0	0
S	MCM998	FRONT CHASSIS AERODYNAMIC PACKAGE	WITHOUT FRONT AERODYNAMIC FAIRINGS	0	0

				WEIGHT (LB)	
WHEELS & TIRES		DESCRIPTION		FRONT	REAR
	900AD0	TIRES BRAND/TYPE - FRONT	295/75R22.5 G BRIDGESTONE R268 (12350 lbs) (Total for QTY = 2)	239	0
	5312F1	WHEELS - FRONT	22.5x8.25 ACCURIDE ACCU-LITE 51408x WHITE POWDER COAT STEEL, 6.60" OFFSET, 2 HAND HOLE (Total for QTY = 2)	142	0
	901601	TIRES BRAND/TYPE - REAR	11R22.5 G BRIDGESTONE M713 ECOPIA (23360 lbs) (DRIVE ONLY) (Total for QTY = 8)	0	971
	3462J6	WHEELS - REAR	22.5x8.25 ACCURIDE ACCU-LITE 51487x WHITE POWDER COAT STEEL, 6.60" OFFSET, 5 HAND HOLE (Total for QTY = 8)	0	547
S	H1EB1X	DRIVE WHEEL STUDS	DRIVE WHEEL STUDS LONGER LENGTH	0	0
S	15XABX	TIRE INFLATION VALVE	STANDARD VALVE STEMS AND CAPS	0	0
	MA50A5	AUXILIARY AXLE TIRES (x)	295/75R22.5 G BRIDGESTONE R268 ECOPIA (12350 lbs / 22700 lbs) (Total for QTY = 2)	0	239
	MA4274	AUXILIARY AXLE WHEELS (x)	22.5x8.25 ACCURIDE ACCU-LITE 51487x WHITE POWDER COAT STEEL (7,400 LB), 6.60" OFFSET, 5 HAND HOLE (Total for QTY = 2)	0	137

TECHNICAL SPECIFICATION *(cont.)*



				WEIGHT (LB)	
WHEELS & TIRES		DESCRIPTION		FRONT	REAR
S	MCH03H	FRONT HUB/WHEEL TRIM	WITHOUT FRONT HUB/WHEEL TRIM	0	0
S	MCI03I	REAR HUB/WHEEL TRIM	WITHOUT REAR HUB/WHEEL TRIM (Total for QTY = 2)	0	0
	MCJ03J	PUSHER HUB/WHEEL TRIM	WITHOUT AUXILIARY HUB/WHEEL TRIM	0	0
S	3PBA1X	WHEEL NUT FINISH, REAR (CA)	WHEEL NUT BASIC FINISH, REAR	0	0

				WEIGHT (LB)	
COMMUNICATION SYSTEMS		DESCRIPTION		FRONT	REAR
S	3YAA1X	CO-PILOT - DISPLAY FEATURES ACCESS LEVEL	CO-PILOT DISPLAY, DRIVER ACCESS LEVEL 1	0	0
S	M30060	TELEMATIC GATEWAY	TELEMATICS GATEWAY, 4G/LTE AND WLAN SYSTEM WITH DIAGNOSTIC SERVICES	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
	C7AABX	ENG FAN CNTL, A/C ON, TIME SET	ENG FAN CONTROL, A/C ON, TIME SETTING, 60 SEC	0	0
	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
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	M4CB1X	IDLE S/D OVERRIDE %ENGINE LOAD	IDLE SHUTDOWN OVERRIDE UPTO 20% ENGINE LOAD THRESHOLD	0	0
S	D2AAFV	AMBIENT TEMP MIN TRESHOLD	AMBIENT TEMP MIN TRESHOLD, 16 DEG C, (60 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 KM/H (10 MPH)	0	0
S	B6ABAX	EL HAND THROTTLE,MAX ENG SPEED	ELECTRONIC HAND THROTTLE, MAX ENGINE SPEED, 1000 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	779001	TRANSMISSION ELECTRONICS PACKAGE	W/O ELEC TRANS PACKAGE OPTION (all non-Allison transmissions)	0	0
S	MAV01V	TRANSMISSION ELECTRONIC SHIFTING PROPERTIES	W/O ALLISON FUELSNSE 2.0 PROGRAMMING	0	0

				WEIGHT (LB)	
VEHICLE ELECTRONICS		DESCRIPTION		FRONT	REAR
S	JCXE6X	ROAD SPEED LIMITER SETTING	105 KM/H ROAD SPEED LIMITER (65MPH)	0	0

TECHNICAL SPECIFICATION *(cont.)*



				WEIGHT (LB)	
VEHICLE ELECTRONICS		DESCRIPTION		FRONT	REAR
S	Y3CC1X	PEDAL RSL SETTING	101 KM/H PEDAL ROAD SPEED LIMITER (63MPH)	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	E4AAAX	CRUISE RESUME WITH CLUTCH	CRUISE RESUME WITH CLUTCH	0	0
S	E5AACX	ENG BRK ENGAGE IN CRUISE	ENG BRK ENGAGE IN CRUISE, 3 MPH, ABOVE SET SPEED	0	0
	L2CB1X	PDLO ENGAGED VLS	POWER DIVIDER LOCK OUT (PDLO) ROAD SPEED LIMIT 24KMH (15MPH)	0	0
	Q6FZ1X	DIFF LOCK SPEED LIMIT	WITHOUT DIFFERENTIAL LOCK ROAD SPEED LIMIT	0	0
S	W5BA1X	MAXIMUM ENG SPEED AT 0 MPH	1000 MAXIMUM ENGINE SPEED AT 0 MPH	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	X3CB1X	DRIVER ID FUNCTION	DRIVER ID FUNCTION, DISABLED	0	0
S	0PAZ1X	DR PERFORMANCE PARAMETERS	WITHOUT DRIVER PERFORMANCE PARAMETERS	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	G1AABX	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

				WEIGHT (LB)	
PTO ELECTRONICS		DESCRIPTION		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	H6AAEX	PTO 2ND, SINGLE SPEED SETTING	PTO 2ND, 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

				WEIGHT (LB)	
PAINT		DESCRIPTION		FRONT	REAR
S	950AD0	PAINT DESIGN	SINGLE COLOR	0	0
S	924014	PAINT TYPE	SOLID PAINT	0	0
	944DR8	PAINT COLOR - FIRST COLOR	WHITE; L0006	0	0
S	945998	PAINT COLOR - SECOND COLOR	NO SECOND TRUCK COLOR PROVIDED; NO COLOR	0	0

TECHNICAL SPECIFICATION *(cont.)*



PAINT	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 946998	PAINT COLOR - THIRD COLOR NO THIRD TRUCK COLOR PROVIDED; NO COLOR	0	0
S 996AA3	PAINT - CAB PAINT SYSTEM PAINT - CAB, URETHANE CLEAR COAT	0	0
S MPB944	CAB COLOR SAME AS FIRST COLOR - CAB	0	0
S MPD944	HOOD COLOR SAME AS FIRST COLOR - HOOD	0	0
S MPC998	SLEEPER ROOF COLOR WITHOUT SLEEPER ROOF COLOR	0	0
S MPA998	ROOF FAIRING COLOR WITHOUT ROOF FAIRING	0	0
S 951AA6	CHASSIS RUNNING GEAR MACK BLACK (URETHANE); P3036	0	0
S 958018	BUMPER PAINT BUMPER SAME COLOR AS CHASSIS RUNNING GEAR	0	0
S 959019	FUEL TANK - ***NO INVENTED VARIANTS ALLOWED in the FUEL TANK PAINT FAMILY*** W/O OPTIONAL FUEL TANK 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
D5EA1X	AUTO ROUTING & CLIPPING, CENTER AUTOMATIC ROUTING & CLIPPING PLACEMENT, CENTER SECTION	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
M8301T	EMISSION - SURCHARGE EPA (only) for Mack MP7 / MP8 Diesel	0	0
S M51021	ENGINE WARRANTY MACK MP7/MP8 BASE ENGINE COVERAGE 24 MONTHS / 250,000 MILES (402,000KM)	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
M54094	TRANSMISSION WARRANTY 36/350K MI: EATON TRANSMISSION STANDARD NORMAL AND HEAVY DUTY COVERAGE	0	0
S M550G7	CARRIER & AXLE HOUSING WARRANTY STANDARD MACK HEAVY DUTY COVERAGE 60 MONTHS / 500,000 (804,672 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
S M690F9	GUARDDOG CONNECT BUNDLE 24 MONTH - GUARDDOG CONNECT WITH MACK OTA (with ASIST and Mack OneCall))	0	0
S M78010	PREPAID API WITHOUT PREPAID API	0	0

FRONT / REAR AXLE WEIGHTS (LB)

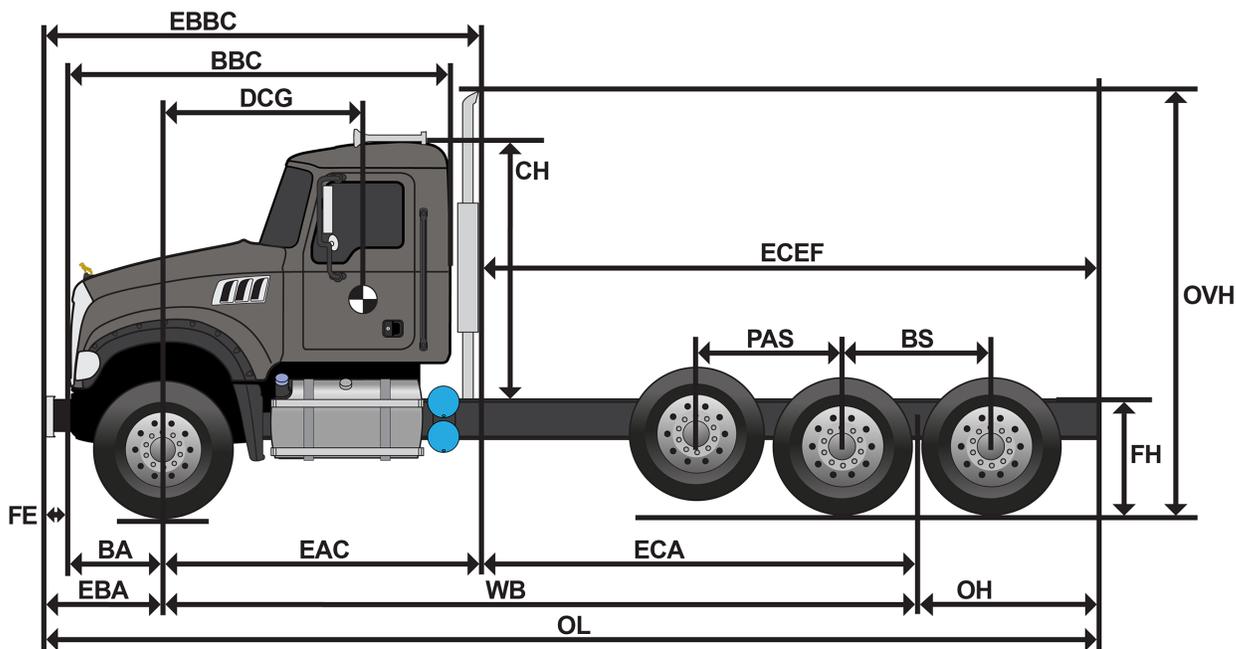
9242 8925

TOTAL WEIGHT (LB)

18167

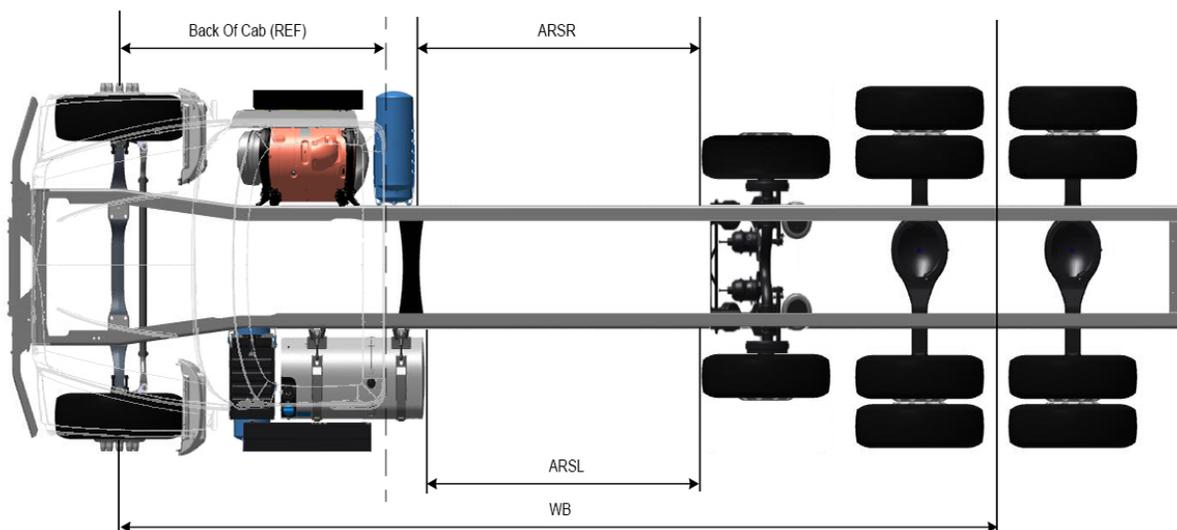
VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY

Description	Sales Code	Dwg Ref	Length	UOM
Front Frame Extension	N/A	FE	0.0	INCHES
Bumper to Front Axle	N/A	BA	29.0	INCHES
Eff. Bumper to Front Axle	N/A	N/A	29.0	INCHES
Wheelbase	N/A	WB	222.2	INCHES
Rear Overhang	N/A	OH	57.5	INCHES
Overall Length	N/A	OL	308.7	INCHES
Bumper to Back of Cab	N/A	BBC	116.5	INCHES
Eff. Bumper to Back of Cab	N/A	EBBC	128.0	INCHES
Eff. Cab to Rear Axle	N/A	ECA	123.2	INCHES
Eff. Front Axle to Back of Cab	N/A	EAC	99.0	INCHES
Eff. Cab to End of Frame	N/A	ECEF	180.7	INCHES
Unladen Frame Height	N/A	FH	43.3	INCHES
Cab Height	N/A	CH	70.9	INCHES
Overall Height	N/A	OVH	141.3	INCHES
Driver CG	N/A	DCG	70.9	INCHES
1ST PUSHER AXLE SPACING 1220MM (48")	GYXGCX	PAS	48.0	INCHES
50" AXLE SPACING (BOGIE WHEELBASE)	GWXABX	BS	50.0	INCHES



VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY

Description	Sales Code	Dwg Ref	Left Value(in)	Right Value(in)
Wheelbase	N/A	WB	222.2	222.2
Available Rail Space Right	N/A	ARSR	N/A	43.8
Available Rail Space Left	N/A	ARSL	24.7	N/A
Eff. Front Axle to Back of Cab	N/A	REF	99.0	99.0
Front Axle To Fender	CDX23X	N/A	35.4	35.4
Cleartech One Unit	DPF04F	N/A	0.0	48.0
Battery Box	393AA2	N/A	15.0	0.0
66 GALLON (250 L) 22" ALUMINUM, SLEEVED D-SHAPED / W/O RH FUEL TANK	288AF2 / 290AA1	N/A	44.6	0.0
Ad-Blue Tank	DF1001	N/A	7.5	0.0
Drive Tire Radius	901601	N/A	20.9	20.9
First Pusher Axle Spacing	GYXGCX	N/A	48.0	48.0
Pusher Tire Radius	MA50A5	N/A	22.0	22.0



Top View image is intended for illustration purposes only and is not presented to scale. Wheelbase, Axle Spacing and After frame are not shown as specified, but are a representation. Customer Adaptation (CA) options and relocated components are not represented in these images. Most CA options impact the variation of the image, thus an image may not populate. Calculations are approximate to a tolerance of ± 4 inches due to component mounting variation. Certain chassis component options are NOT represented in the Top View image, such as, but not exclusive to, Front Frame Extensions, Fuel Water Separators, Air Dryers, PTOs, Fifth Wheels, Chassis Fairings, Toolboxes, Trailer Connections. For further information on these items and their respective locations on your specification, please refer to the data sheets associated with those items in the configurator.

MACK®



Mack Trucks
www.macktrucks.com