

BID SUBMITTAL FORM
Alabama County Joint Bidding Program
BID ITEM – LOWBOY TRACTOR - OPTION A

Company Name: Nextran Truck Centers

Address: 1801 Fulton Road
Fultondale, AL 35068

Bid Submitted by: Bruce Graham
(Name of company representative)

Title: Municipal Sales Consultant E-mail address: bgraham@nextranusa.com

Phone: 205-337-7724 Fax: 205-841-4430

By submitting this bid, we agree:

Initials

That the equipment model number identified below meets the bid specs for this bid item

BG

That the bid price will be honored for all counties for the period from **January 1, 2026 to June 30, 2026.** **Due to uncertainties with material & component cost and potential additional tariff**

BG

impact fees- all new orders must be received by 3/31/2026

That the equipment will be delivered at the bid price to all counties participating in the joint bid program

BG

That the company representative listed above will be the contact person for purchasing this bid item under the joint bid program

BG

That the bid is accompanied by a current catalog or model specification document for the model number identified below

BG

That the bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications

BG

That the bid includes the E-Verify documentation required by Alabama law

BG

We comply with, and if awarded the contract, we will comply with, the requirements of Section 41-16-50 and Sections 41-16-160 to -166, Code of Alabama 1975.

BG

That, if awarded the bid, a performance bond will be provided upon request

BG

That an option sheet with individual pricing is attached

BG

Total Bid Price including options: \$ 192,487.00

Equipment Model #: Mack Pinnacle 64T

Description: Mack Pinnacle Tractor

Signature of company representative submitting bid: 

Title: Municipal Sales Consultant


**OPTION COST SHEET FOR
HEAVY DUTY LOW BOY TRACTOR
OPTION A**

<u>Options</u>	<u>Option Price</u>
MDRIVEHD 14 speed automated manual transmission	\$ <u>2,828</u>
Dual purpose wet line kit	\$ <u>3,500</u>
Aluminum cab guard	\$ <u>1,000</u>
60" Long Light bar	\$ <u>1,500</u>

NOTE: Award will be made on the basis of the total cost of the Low Boy Tractor with the option included. However, a county may, at its discretion, deduct the above-referenced option from the Low Boy Tractor, and in such event, the cost of the option as stated on the bid shall be deducted from the total cost of the Low Boy Tractor. There shall be no other deductions and no additions made to the Low Boy Tractor by the purchasing county or by the vendor.

Equipment Model #: PI64T

Description: Tractor

Signature of company representative submitting bid: 

Title: Municipal Sales Consultant

SPECIFICATION CHECKLIST

INVITATION TO BID HEAVY EQUIPMENT

NOTICE OF BID OPENING

NOTICE IS HEREBY GIVEN that the Association of County Commissions of Alabama, which administers the Alabama County Joint Bid Program on behalf of Alabama's county governing bodies, shall receive and open bids for the purchase of zero (0) or more items of heavy road equipment at its office located at 2 North Jackson Street, Montgomery, Alabama, at **10:00 a.m. on Tuesday, November 18, 2025**. Bid specifications are available at <http://www.alabamacounties.org/heavy-equipment/> for each of the following items:

Track Mount Excavators
Compact Excavators
Mini Track Excavators
Wheeled Excavators
Highway Speed Truck Excavators
Motor Graders
Wheel Loaders
Heavy Duty Dump Chassis
Lowboy Tractors
Lowboy Trailers
Half Round End Dump
Skid Steer Loader and Attachments
Ride-on Industrial Boom Mowers
Rubber Tire Roller
Vibratory Roller
One-man Pothole Patchers

Trailer Mount Mastic Patcher/Crack Sealer
Trailer Mounted Patcher – Diesel
Trailer Mounted Patcher – Air
Compressor/Tools
Chip Spreader
Asphalt Distributor
Asphalt Milling Attachments
Asphalt Storage Tanks
Backhoes
Bulldozers
Dump Bodies
Road Wideners
Ride On Industrial Boom Mowers

Time is of the essence in submitting bids and only bids received in the Association office by 10:00 a.m. Central Time on Tuesday, November 18, 2025 will be opened and considered. Bidders and any other interested individuals are invited to attend the bid opening.

NOTICE OF BID OPENING PROCEDURES

All bids for Heavy Equipment will be opened and the name(s) of the bidders read aloud on the morning of the bid opening on Tuesday, November 18, 2025 at 10:00 a.m. at 2 North Jackson Street, Montgomery, AL. The specifics of each bid submitted will be compiled by the Association staff thereafter and will be available, upon written or emailed request, one week after the bid opening. Requests should be emailed to jointbid@alabamacounties.org.

THE INVITATION PACKAGE

The invitation package for each item to be bid includes: this invitation to bid, the written bid specifications for the particular item of heavy road equipment, and a Bid Submittal Form to be used in submitting a bid for that particular item. Bidders should verify that they have received all pages of the invitation package. If there are any omissions, the bidder should contact Kenya Howard in the Association office by mail, fax, or e-mail (jointbid@alabamacounties.org) to request missing pages. It is the responsibility of the

bidder to make this request in sufficient time to prepare and submit the bid in time for the bid opening. Bidders should carefully read and comply with all parts of the invitation package, including all attachments and/or any addendum.

PREPARING AND SUBMITTING BIDS

All bids must be typed or handwritten in ink on the attached Bid Submittal Form. **The completed Bid Submittal Form shall be placed in front of and separated from all other documents included in the bid packet, such that it will be the first document viewed upon opening the bid packet.**

Bids submitted in pencil and bids not submitted on the Bid Submittal Form will **not** be considered. All bids shall include a current catalog or model specification document for the equipment model number being offered for consideration. Bids submitted without such documentation will **not** be considered. Only information contained on the attached Bid Submittal Form and in the model specification document will be considered in evaluating bids.

Each separate requirement in the bid specification includes a block for indicating whether or not the item bid meets the specification. The bidder shall indicate compliance with each requirement by checking "Yes" or "No" in the block to the right of each bid specification. In addition, the bidder shall indicate the page number in the supplied manufacturer's equipment literature on which compliance with the specification can be verified. Failure to complete this portion of the bid form may result in the subject bid not being considered. Additionally, all bidders are required to submit a factory build/order sheet showing all of the standard and option items for each piece of equipment bid in order to assist the bid review committee in assuring that each bid is in conformance with the required bid specifications.

Each bid for one of the heavy equipment items included in the bid package must be submitted on the Bid Submittal Form for that item and forwarded in a separate envelope with the bid item and item number clearly identified on the outside of the envelope. Envelopes containing a "no bid" shall also include the words "NO BID" on the outside of the envelope. Facsimiles and e-mails will not be accepted. Bids submitted by "Express/Overnight" services must be in a separate inner envelope or package sealed and identified as stated above. All bids must be received in the Association office prior to the bid opening. Bids received after the deadline will be returned unopened.

The County Joint Bid Program reserves the right to require a performance bond from successful bidders as permitted under Alabama law. However, **no bid bond is required for this bid offering.**

All bids should be mailed or hand-delivered to:

**ATTN: Alabama County Joint Bid Program
Association of County Commissions of Alabama or ACCA
2 North Jackson Street, FL 7, Montgomery, Alabama 36104 (Physical Address)
P.O. Box 5040, Montgomery, Alabama 36103 (Mailing Address)**

BID SPECIFICATIONS

Please note that each piece of heavy equipment available for bid may include several different sizes and categories of machines. You should read each set of specifications very carefully as the differences vary depending upon the piece and size of equipment.

Where applicable, each bid submission shall include the separate cost of each item listed in the "Options" section of the bid specifications. However, all bids will be awarded on the basis of the **total cost of the machine with all options included**. Therefore, the "Bid Price" stated on the Bid Submittal Form must be the total cost, including the cost of all options.

Both parties agree that the Vendor SHALL extend to ALL counties purchasing this equipment any factory discounts, incentives or rebates that become available during the Contract Period; provided that there are no alterations from the bid specifications for this item required in order to receive the discount, incentive, or rebate. FURTHER, BOTH PARTIES AGREE THAT THE VENDOR SHALL EXTEND TO ALL COUNTIES PURCHASING THIS EQUIPMENT THE SAME PURCHASE PRICE AND DISCOUNTS AS THEY ARE AWARDED ON ANY OTHER NATIONAL PURCHASING COOPERATIVE APPROVED BY THE DEPARTMENT OF EXAMINERS OF PUBLIC ACCOUNTS FOR USE BY ALABAMA COUNTIES.

Once the bids have been awarded, any county participant purchasing under this program may, at its discretion, deduct one or more of the options set out in the bid specifications, and in such event, the cost of the option as stated on the bid shall be deducted from the total cost of the machine. There shall be no other deductions and no additions made to the machine by the purchasing county or by the vendor.

Any use of specific names and/or model numbers in the attached specifications is not intended to restrict the bidder or any seller or manufacturer but is included solely for the purpose of indicating the type, size, and quality of materials, product services, or equipment considered best adapted to the use of the counties participating in the joint bid program.

BIDDER QUALIFICATIONS

All bidders and all program participants must be in compliance with any applicable federal, state, county and municipal laws, regulations, resolutions and ordinances, including but not limited to, licensing, permitting, and taxation requirements. All bidders should be prepared to submit evidence or documentation as proof that they are properly licensed and permitted under any applicable laws upon request. Such evidence or documentation may be submitted with the bid. **Additionally, all bidders shall provide proof that they are in compliance with the E-Verify requirements of Alabama's Immigration Law (Ala. Code § 31-13-1 et seq.). All bidders shall also affirm that they are in compliance with, and will comply with, Alabama's anti-boycott law (Ala. Code § 41-16-5) and anti-economic boycott law (Ala. Code § 41-16-160 et seq.).**

BID AWARD

The Houston County Commission will serve as the awarding authority for all bids and will award all contracts at a regular meeting of the Houston County Commission. Any and all bids submitted in compliance with this invitation to bid shall be considered, and award will be made to the lowest responsible bidder meeting bid specifications as determined by the awarding authority in compliance with Alabama law. All bids will be reviewed and evaluated by a committee created for that purpose, which committee will make comments and recommendations to the awarding authority regarding the award. All factors contained in each invitation package will be evaluated in determining the successful bidder, and any omissions of the stated requirements may be cause for rejection of the bid submitted. The awarding authority reserves the right to reject any and all bids, to waive any informality in bids, and to accept in whole or in part such bid or bids solely at its discretion.

The contract period will be six (6) months with an option to renew each six (6) months not to exceed a period of three (3) years under identical price, terms, and conditions upon the mutual consent of the vendor and the awarding authority. Any renewal contract shall be approved in writing by the vendor and the awarding authority no later than **60 days** prior to the expiration of the existing contract.

CONTACT REGARDING BIDS AND INVITATION

Contact initiated by a potential bidder with any county official, county employee, or member of the Association staff shall only be as specifically set out in this Invitation to Bid. Any questions related to the bid or the County Joint Bid Program shall be directed to Association staff in writing under the procedures set out in this Invitation to Bid. Additionally, a bidder may contact the Association in writing to request an appointment to review bid specifications following the bid opening. **However, there shall be no communication with any county official or county employee regarding this bid between the date of this invitation and the date of bid award.** Any contact other than as set out here shall be deemed as an attempt to unduly influence the bid award, and shall be grounds for rejection of the bid submitted by the bidder initiating such other contact.

Any questions or problems related to downloading or obtaining copies of this Invitation to Bid should be directed to **Kenya Howard** at jointbid@alabamacounties.org or **334-263-7594**.

Any other questions or requests for additional information regarding this invitation or the bid specifications shall be submitted **in writing** no later than five (5) days prior to bid opening to:

ATTN: Patrick McDougald
Association of County Commissions of Alabama
P.O. Box 5040
Montgomery, Alabama 36104

OR

Patrick McDougald
Email: pattymackdaddy@gmail.com

BID SPECIFICATIONS FOR HEAVY DUTY LOW BOY TRACTOR-OPTION A

GENERAL

These specifications shall be construed as the minimum acceptable standards for a heavy duty Low Boy tractor. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturers' equipment.

The use of specific names or numbers in the specifications is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size, and quality of equipment considered best adapted to the uses of counties participating in this joint bid.

Note all units offered for bid must be of manufacturer's current production model and must be fully compliant with EPA standard US21. Chassis should be equipped with the appropriate diesel particulate filter and SCR after treatment system.

BID SUBMITTAL FORM

Each bidder must submit his or her bid on the Bid Submittal Form included in the invitation to bid package. All written warranties to be submitted shall be attached to the Bid Submittal Form.

BID PRICE

The price bid shall include all destination charges, delivery charges, title fees, rebates and all other applicable costs and refunds.

MANUALS

Each unit shall be provided with one (1) copy of the operator's manual

REPLACEMENT PARTS AVAILABILITY

Parts must be available for 5 years or 500,000 miles of use for the piece of equipment bid.

WARRANTY

Bidders shall submit a copy of the manufacturer's standard warranty along with a complete explanation of the warranty with their bid. Warranty shall be transferable. Warranty must include the following minimum coverage:

Basic Vehicle: 1 year or 100,000 miles

Diesel Engine: 2 year or 250,000 miles. However, counties will have the option to purchase additional coverage (an extended warranty) if negotiated between the purchasing county and successful bidder within the first 9 months of truck purchase.

Transmission: 3 Year or 300,000 miles

Rear Carriers: 3 Year or 300,000 miles

Yes ☒ No ☐
Page # Warranty Attachment
or
Attachment

ASSEMBLY AND DELIVERY

The selling truck chassis dealer shall be responsible for delivery of the completed unit to the purchasing county with all requested options.

DOT to be done at dealership prior to delivery

DOT INSPECTION AND SAFETY EQUIPMENT

Prior to delivery each unit shall be DOT inspected and include the appropriate documentation and decal. In addition each unit shall be equipped with the required fire extinguisher and reflective safety triangles.

Yes ☒ No ☐
Page # 6 of FBS

ENGINE AND RELATED COMPONENTS

Shall be an in line 6 design 13 liter, overhead cam, turbo charged diesel engine capable of developing 505 HP with a peak torque rating of 1,900 FT#.

Yes ☒ No ☐
Page # 1 FBS and 1 Engine Spec Sheet

Engine shall have full wet replaceable cylinder liners, fuel injection system to be Electronic common rail injection.

Yes ☒ No ☐
Page # 2 engine spec sheet

Air intake system shall have a single dry element with a restriction indicator.

Frontal area increased to 1,345 square inches

Yes ☒ No ☐
Page # 2 of FBS and 1 of Standard Equipment

Turbo air shall flow through a chassis mounted charge air cooler, engine cooling system to have a minimum 1,000 square inches of frontal area, aluminum core radiator with silicone hoses throughout and coolant protection to -34 degrees F.

Yes ☒ No ☐
Page # 2 and 3 FBS and 1 of Standard Equipments

Standard

Fan drive to be electronically modulated multi-speed viscous type with a poly V belt with automatic tension control.

Yes ☒ No ☐
Page # 2 of FBS and 1 of Standard Equipment

Exhaust to be DUAL vertical with bright finish heat shields, elbows and stacks.

Yes ☒ No ☐
Page # 2 of FBS

DPF element/SCR catalyst combined in a single unit mounted on passenger side frame rail under passenger door.

Yes ☒ No ☐
Page # 1 of FBS

Factory installed integral Engine Brake.

Yes ☒ No ☐
Page # 2 FBS and 1 of
standard equipment

Engine electronics to have:

Yes ☒ No ☐
Page # 8 FBS
8

Full diagnostic capabilities

Yes ☒ No ☐
Page # 8 of FBS and Co-Pilot
Brochure

Road speed limiting and Cruise Control Feature

Yes ☒ No ☐
Page # 8 FBS
8

Shutdown capabilities for critical engine functions

Yes ☒ No ☐
Page # 8 of FBS
8

STARTING AND ELECTRICAL SYSTEM

12 Volt system fuse/circuit breaker protected

Yes ☒ No ☐
Page # 2 of Standard
Equipment

12V gear reduction starter, 12V 160 Amp alternator (28si)

Increased to 760 Each

(3) 12V maintenance free group 31 batteries with 650 cold cranking amps each, batteries to be mounted in a single steel box with polished aluminum cover.

Yes ☒ No ☐
Page # 2 of FBS

Unit should be equipped with a backup alarm

Yes ☒ No ☐
Page # 2 of FBS

Bumper mounted Fog Lights

Yes ☒ No ☐
Page # 5 of FBS

TRANSMISSION AND DRIVELINE

Manual eighteen (18) speed Fuller RTLO-18918B or equivalent overdrive design, with a minimum first gear reduction of 14.4 to 1.

Upgraded to Fuller RTLO-20918B for higher Torque Capacity

Transmission should have oil cooler with dash mounted temperature gauge, left and right side PTO access gears with appropriate clearance.

Yes ☒ No ☐
Page # 2 of FBS and 1 of
Transmission Spec
Sheet

Clutch upgraded to Eaton Advantage Solo Self Adjusting

Eaton Advantage easy pedal manually adjusting 15.5" two plate ceramic clutch 9 springs, 6 paddle design with AIR assist feature and remote lube fittings for clutch release bearing and both crosses mounted on LH frame rail under hood.

Yes ☒ No ☐
Page # 3 of FBS and
Transmission Spec
Sheet

Main driveline Spicer 1810HD with coated splines/ inter axle driveline 1710HD with coated spline or equivalent.

Main Spicer SPL250HDXL
Interaxle SPL170XL

Yes ☒ No ☐
Page # 3 of FBS

Yes ☒ No ☐
Page # 3 of FBS and Driveline
Spec Sheet

CAB EXTERIOR

Cab to be Class 8 designed for construction and vocational applications. Cab construction should be welded Galvanized steel shell.

<https://www.macktrucks.com/trucks/pinnacle-series/>

Cab doors should also be of Galvanized steel and have high visibility roll up style windows with power window and door lock control on both doors, passenger door to include a peep window in the lower half of door.

Cab mounting should be air suspended at rear on dual air bags mounted outside of the frame rails.

Cab should feature:

Dual air horns in addition to the standard electric signal horn

Pg
7 of FBS

Chrome Bullet style marker lights

Bright finish heated and motorized West Coast mirrors with 8" convex mirrors mounted below the West Coast mirrors. Mirrors to be mounted on break away brackets to protect door skin.

Convex is now integrated

Stainless Steel Exterior sun visor

Cab glass to be safety tinted

Pg 6 FBS

Cab to have grab handles of both sides of cab

Cab exterior and chassis to have all required DOT and ICC lighting (turn signal indicators, emergency flashers, rear stop, tail, turn and backup lighting.)

Hood is to be a full tilting fiberglass design with safety latch, bright finish headlight bezels and bright finish grille.

Cab and hood paint color to be selected from manufacturer's standard non-metallic paint chart.

Yes ☒ No ☐
Page # See Website

Yes ☒ No ☐
Page # 2 of Standard Equipment

Yes ☒ No ☐
Page # 2 of Standard Equipment

Yes ☒ No ☐
Page # 8 of standard equipment

Yes ☒ No ☐
Page # 5 of FBS

Yes ☒ No ☐
Page # 8 of FBS
7

Yes ☒ No ☐
Page # 8 of FBS
7

Yes ☒ No ☐
Page # 2 of Standard Equipment

Yes ☒ No ☐
Page # 7 of FBS and 2 of Standard Equipment

Yes ☒ No ☐
Page # 2 of standard equipment

Yes ☒ No ☐
Page # 7 of FBS and 2 of Standard Equipment

Yes ☒ No ☐
Page # 2 of standard equipment

CAB INTERIOR

Cab interior to include the following:

Storage tray on back wall of cab and in overhead console

Yes ☒ No ☐
Page # 2 of standard equipment

Cab interior is to be PREMIUM grade level fully groomed headliner, back wall and windshield pillar post and door panels covered.

Yes ☒ No ☐
Page # 4 of FBS and interior spec sheet

Cab should have interior sun visors on both sides of cab.

Yes ☒ No ☐
Page # 2 of standard equipment

Cab floor should be covered with black polyurethane mat.

Yes ☒ No ☐
Page # 6 of FBS and 2 of Standard Equipment

Dash features to include:

Brushed nickel appearance

Yes ☒ No ☐
Page # Interior Spec Sheet

Center mount console with cup holders

pg 6 FBS

Yes ☒ No ☐
Page # Standard Equipment

Full adjusting tilt and telescopic steering column

Yes ☒ No ☐
Page # standard equipment

Axle oil temperature gauges

pg 6 FBS

Yes ☒ No ☐
Page # Co-Pilot Brochure

Exhaust pyrometer

Yes ☒ No ☐
Page # 6 of FBS

Manifold pressure gauge

pg 6 FBS

Eliminated to accommodate requested Air Filter Restriction Indicator

Yes ☒ No ☐
Page # See Note

Cab seats should be: Driver and rider High Back air ride design with arm rest, both seats to have fabric covering with required lap and shoulder belts.

Yes ☒ No ☐
Page # 4 of FBS

Factory installed integral air conditioning with R134A refrigerant and rotary type air conditioner compressor.

Yes ☒ No ☐
Page # 6 of FBS and 2 of standard equipment

AM/FM/CD radio with clock weather band and Blue Tooth capability, two- way radio power leads and mounting plate installed in overhead console (not on dash) with dual mirror mounted antennas.

Yes x No
Page # 6 of FBS

Two additional dash mounted power outlets to be furnished.

Yes x No
Page # 2 of standard
equipment

Windshield wipers to be two (2) speed electric with washer and intermittent feature.

Yes x No
Page # 8 of FBS and 2 of
Standard Equipment

AIR BRAKES

Full Dual Air Brake system with Bendix Road Stability System to include ABS/ATC/ESP with YAW control with heated air dryer.

Yes x No
Page # 4 of FBS

Semi - trailer connection package with 16' coiler air and electrical connections with an in cab hand control valve for trailer service brakes.

Yes x No
Page # 4 of FBS
5

Air compressor should have 37.4CFM capacity

Yes x No
Page # 2 of FBS

FRAME/BUMPER/FUEL TANKS

Steel 120,000 PSI frame rails 11.81" x 3.54" x 0.37" with a section modulus of 20.6 and a RBM per rail of 2,470,000.

Yes x No
Page # 4 of FBS

235" wheelbase with adequate frame rail clearance to accommodate a third axle, if desired.

Yes x No
Page # 4 of FBS

148" cab to axle.

Yes x No
Page # 4 of FBS

Heavy duty cross - members with huck bolt fasteners throughout.

Yes x No
Page # 4 of FBS

Bright Finish stainless steel clad aluminum with a swing out towing clevis each side.

Yes x No
Page # 4 of FBS

Fuel tank(s) to be polished aluminum with a minimum of 150 Gallon capacity

Yes x No
Page # 8 of FBS
4

Driver's side frame or fuel tank mounted step(s) and tread plate platform to access Trailer connections.

Yes x No
Page # 4 of FBS
5

Chassis to be equipped with frame mounted bright finish quarter fenders mounted ahead of front pull axle and rear mud flaps mounted at end of frame on heavy duty spring loaded brackets

Dealer flaps added locally to factory installed brackets

Yes ☒ No ☐
Page # 4 and 6 of FBS

4

FIFTH WHEEL

Tractor to be equipped with a Fontaine, Holland, or Jost air slide fifth wheel. Fifth wheel should have pinning feature for use with a dump trailer. Pins should be removable type for Multi - purpose use.

Yes ☒ No ☐
Page # 5 and 6 of FBS

FRONT AXLE

14,600 Reverse Elliot design steel I beam axle with 14,600# taper leaf suspension, 14,600# integral power steering, shock absorbers and a maximum of 34.5" spring centers. **SET FORWARD** front axle position only. Unitized sealed (maintenance free) front wheel hubs. Sealed tapered kingpins and bearings. Meritor "S" cam design 16.5" x 6" Q+ brakes with outboard mounted drums, dust shields and automatic slack adjusters. Front wheels to be Machine Cleaned Buffed Aluminum ten (10) hole bud style, hub piloted 24.5" x 8.25". Front tires to be 16 ply 11R24.5 radials Bridgestone, Goodyear, Michelin, Firestone, Continental, General Or Yokohama.

Yes ☒ No ☐
Page # 3 and 8 of FBS and
Front Axle Brochure

REAR AXLE

Meritor RT 46-164EH 46,000# capacity (3.58-4.10 based on transmission) ratio tandem axle with in cab power divider lock out valve with warning light and buzzer, lube pump and filter. In addition both rear axles should be equipped with driver controlled inter wheel differential locks with manual valve and warning light. 60 inch axle spacing. 46,000# air ride rear suspension with shock absorbers and transverse torque rods on both rear axles. Meritor "S" cam design 16.5" x 8 5/8" Q+ brakes with outboard drums, dust shields and automatic slack adjusters. Brake chambers shall be (4) 30/30 style chambers with raised chambers on rear axle. Machine Cleaned Buffed Aluminum ten (10) hole bud style, hub piloted 24.5 x 8.25 rear wheels. Rear tires to be 16 ply 11R24.5 radials Bridgestone, Goodyear, Michelin, Firestone, General, Continental, Yokohama.

Yes ☒ No ☐
Page # 4 and 11 of FBS

3 and 4 of 11

OPTIONS

In addition the bid must also include the cost for each of the following options, itemized separately on the bid:

14 speed Automated Manual Transmission (MDRIVEHD .78 Over Drive Series only) 14 speed forward and 4 speed reverse with Ultra Low Creeper 32.04 Lo gear forward and 37.49 Lo reverse with factory installed 1300 series PTO flange with dash mounted control Optional Transmission Page 2 FBS of Automated Manual Spec Sheet/ PTO Page 6

Dual-purpose wet line system for use with a dump trailer or a detachable neck low boy trailer.

Dealer Locally Installed Option

Yes x No
Page # Local

Aluminum Cab Guard with rear window

Dealer Locally Installed Option

Yes x No
Page # Local

60-Inch Long light bar with warning lights (strokes or rotators) work lights, stop lights, tail lights and turn signals

Dealer Locally Installed Option

-light bar shall be mounted on the Aluminum Cab Guard with Controls
Mounted on the Dash inside the Cab

Yes x No
Page # Local

NOTE: Award will be made on the basis of the total cost of the Low Boy Tractor with all options included. However, a county may, at its discretion, deduct the above-referenced option from the Low Boy Tractor, and in such event, the cost of the option as stated on the bid shall be deducted from the total cost of the Low Boy Tractor. There shall be no other deductions and no additions made to the Low Boy Tractor by the purchasing county or by the vendor.

FACTORY BUILD SHEET
M DRIVE AUTOMATED
TRANSMISSION

TECHNICAL SPECIFICATION

PINNACLE 64T DAYCAB MACK SPEC



				WEIGHT (LB)	
MODEL DEFINING		DESCRIPTION		FRONT	REAR
S	PB100M	PRICE BOOK LEVEL	2008-10-07	0	0
S	LAX05X	VOLTAGE	ELECTRICAL SYSTEM 12 VOLT	0	0

				WEIGHT (LB)	
APPLICATION PACKAGES		DESCRIPTION		FRONT	REAR
	MPK11K	CHASSIS CONFIGURATION PACKAGE	ONEBOX EATS, RIGHT FRONT BATTERY BOX, 18.4 GALLON (70L) DEF, DUAL 26" FUEL TANKS	0	0

				WEIGHT (LB)	
CUSTOMER/VEHICLE INFO		DESCRIPTION		FRONT	REAR
S	002F62	CHASSIS (BASE MODEL)	PINNACLE 64T DAYCAB MACKSPEC	5,038	2,090
	MP2002	CUSTOMER FLEET SIZE	REGIONAL FLEET 25 OR MORE VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND	0	0
S	M45001	ORDER TYPE REQUIREMENTS	RETAIL OR STOCK - CUSTOM SPECIFICATIONS	0	0
	013002	TYPE OF SERVICE	MUNICIPAL	0	0
S	M98018	WARRANTY REGISTRATION LOCATION	USA - WARRANTY REGISTRATION LOCATION	0	0
	MBT01T	EMISSION WARRANTY CERTIFICATION	EPA (only) for Mack MP7 / MP8 Diesel	0	0
	694DDD	Order Subject to Meeting All Mack Policies, Terms and Conditions, INTENDED REGISTRATION LOCATION	Including but not Limited to Applicable CARB and/or Section 177 States' Regulation requirements ALABAMA	0	0
	M84001	INITIAL REGISTRATION LOCATION	USA REGISTRATION	0	0
S	5050B5	BRAND ORNAMENT	BULLDOG, CHROME	0	0
S	534014	LANGUAGE-PUBS/DECAL/SIGNS	ENGLISH	0	0
	005025	VEHICLE USE & BODY/TRAILER TYPE	LOW BOY MACHINERY TRAILER	0	0
S	78XB1X	TRANSPORT CYCLE	LOCAL DISTRIBUTION	0	0
S	DKXG2X	GROSS COMBINATION WEIGHT (CA in PC29 only)	80,000 LB (36 TONNES) GROSS COMBINATION WEIGHT	0	0
S	70BC1X	BRAKE REGULATION	BRAKE REGULATION, STOPPING DISTANCE 76M (250FT)	0	0
	QCXA1X	TOPOGRAPHY	GRADES <3% GREATER THAN 98% OF DRIVING DISTANCE MAX GRADE 8%	0	0
S	E1BD1X	AMBIENT TEMP UPPER LIMIT	AMBIENT TEMPERATURE HOT. WARMER THAN 104 F (40 C) ALLOWED UP TO 25 HOURS PER YEAR	0	0
S	032A79	OPERATING TERRAIN GRADE CONDITIONS	ON HIGHWAY, STARTING GRADES<16%	0	0
S	033A10	LOADING SURFACE FACTOR	CONCRETE LOADING AND / OR UNLOADING SURFACE	0	0
	0341A2	VEHICLE VOCATION	PICKUP & DELIVERY / SHORT HAUL SERVICE	0	0

				WEIGHT (LB)	
ENGINE/TRANSMISSIONS		DESCRIPTION		FRONT	REAR
	1004G0	ENGINE / MOTOR	MP8-505C+ MACK 505HP @ 1400-1700 RPM (PEAK) 2100 RPM (GOV) 1900 LB-FT, US'21	2,108	530
S	Q1CA1X	GEAR SELECTION TUNING	BASIC, GEAR-SELECTION TUNING	0	0
S	3GCA1X	GHG APPLICATION, VEHICLE	GREEN HOUSE GAS HIGHWAY APPLICATION	0	0
	136176	TRANSMISSION	MACK TMD14AFO-HD mDRIVE HD 14 SP, ULTRA-LOW CREEPER/ MULTI-SPEED REVERSE(OVERDRIVE)	578	192
S	V4EZ9X	GEARBOX 12TH GEAR LOCK-OUT	WITHOUT 12TH GEARBOX GEAR LOCK-OUT	0	0

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			WEIGHT (LB)	
EXHAUST/EMISSIONS		DESCRIPTION	FRONT	REAR
	Z8FT1X	NOX LIMITS		
		CARB LEGACY / EPA (200MG/HP/HR), 50 State Idle Compliance	0	0
S	Y7BC1X	IDLE EMISSION LABEL LOCATION (CA in PC29 only)		
		IDLE EMISSION LABEL LOCATION, LOWER LH CORNER OF DRIVER DOOR	0	0
S	DPF04F	DPF DIESEL PARTICULATE FILTER		
		CLEARTECH ONE BOX E.A.T.S. RH SIDE UNDER CAB US17 / US21	0	0
	MCF04F	CHASSIS MOUNTED EMISSIONS FINISH		
		BRIGHT FINISH DEF COVER & PAINTED DPF COVER	0	0
S	DF10N1	DIESEL EXHAUST FLUID TANK		
		18.4 GALLON (70 L) 26" LEFT SIDE FRAME MOUNTED	190	67
	130AC4	EXHAUST		
		DUAL VERTICAL OUTBOARD MOUNTED STRAIGHT EXHAUST STACK TURNED OUT END	89	51
S	KRXB5X	EXHAUST STACK HEIGHT		
		11' 6" FROM GROUND	0	0
	Q0AF2X	EXHAUST - BRIGHT FINISH		
		DUAL, BRIGHT FINISH HEAT SHIELDS, STACKS, ELBOWS	0	0

			WEIGHT (LB)	
ENGINE EQUIPMENT		DESCRIPTION	FRONT	REAR
	125055	AIR CLEANER		
		UNDER HOOD SINGLE ELEMENT DRY TYPE W/AIR INTAKE FROM BOTH SIDES OF HOOD&DASH MTD AIR RESTRICTION IND	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	851004	AIR DRYER POSITION (CA)		
		STANDARD AIR DRYER LOCATION	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	316AA5	BATTERIES		
		(3) MACK 12V 760/2280 CCA THREADED STUD TYPE	7	3
S	393AA9	BATTERY BOX - MOUNTING (x)		
		RH RAIL UNDER CAB (3 BATTERY MAX)	0	0
	L5XF1X	BATTERY BOX COVER		
		POLISHED ALUMINUM	5	0
S	NCXA5X	STARTER MOTOR		
		12 VOLT DELCO 39MT-MXT	31	0
	110AA6	ENGINE BRAKE		
		MACK MP8 POWERLEASH	0	0
S	JMXB1X	VEHICLE/TRAILER STOP LAMP APPLICATION (CA)		
		VEHICLE AND TRAILER (IF APPLICABLE) STOP LAMPS ACTIVATE UPON SERVICE BRAKE APPLICATION ONLY(3899000)	0	0
S	J2EAAX	ENGINE BRAKE ACTIVATION		
		ENGINE BRAKE ACTIVATION, BASIC	0	0
S	118AB8	FAN DRIVE		
		BEHR FAN AND ELECTRONIC MODULATING VISCOUS FAN DRIVE	0	0
S	119A19	COOLANT PROTECTION		
		ETHYLENE GLYCOL FULLY FORMULATED COOLANT (50/50 MIX DYED PINK) TO -34DEG, W/ FILTER	0	0
	H9XK1X	RADIATOR TYPE		
		RADIATOR, CORE AREA W/O FEPTO 1345sq in (86sq dm), CORE AREA W/ FEPTO 1296sq in (83sq dm)	0	0
	124AA2	HOSES - RADIATOR/HEATER		
		SILICONE RADIATOR AND HEATER HOSES	0	0
S	293043	FUEL-WATER SEPARATOR		
		MACK W/MANUAL DRAIN VALVE V2 (INTEGRAL W/ PRIMARY FUEL FILTER)	0	0
S	MCA04A	ENGINE HEATERS		
		120v 1500w BLOCK HEATER ONLY	0	0
	5NXA1X	ENGINE BLOCK HEATER		
		120V 1500W ENGINE BLOCK HEATER	5	0
	MAH01I	PLUG QUANTITY & TYPE		
		SINGLE (1) 120V-15A PLUG	0	0
S	QHXC1X	OIL SUMP		
		OIL PAN	0	0
S	36AA1X	TETHER DEV PKG, CAPS & COVERS		
		FURNISH CAP RETAINER FOR OIL FILL & RADIATOR OVERFLOW TANK	0	0
S	2YBZ1X	EMERGENCY ENGINE STOP (CA)		
		WITHOUT ENGINE STOP, EMERGENCY	0	0

			WEIGHT (LB)	
CLUTCH/TRANS EQUIPMENT		DESCRIPTION	FRONT	REAR
S	49200B	GEAR SHIFTER		
		MACK mDRIVE-PREMIUM SHIFTER	0	0
S	133AC7	CLUTCH		
		ZF/SACHS SINGLE PLATE 17" (430MM) ORGANIC MATERIAL	0	0

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				WEIGHT (LB)	
CLUTCH/TRANS EQUIPMENT		DESCRIPTION		FRONT	REAR
S	MCB05B	CLUTCH ACTUATION SYSTEM & PEDAL PAD	WITHOUT CLUTCH CABLE SYSTEM	0	0
	195AA7	DRIVELINE - MAIN	MERITOR RPL25HD W/PERMALUBE U-JOINTS (PROPS-L)	23	23
S	204AA4	DRIVELINE - INTERAXLE	MERITOR RPL20 W/PERMALUBE	0	34
S	76AA1X	DRIVESHAFT MAIN U-JOINT	UNIVERSAL JOINT HALF-ROUND TYPE (where applicable)	0	0
S	8WAAAX	DRIVESHAFT INTERAXLE U-JOINT	HALF-ROUND UNIVERSAL JOINT	0	0
S	4LDA1X	TRANSMISSION OUTPUT TORQUE	TRANSMISSION OUTPUT TORQUE BASIC	0	0
	7RXD1X	LUBRICANTS, TRANSMISSION	75W - 90 (SYNTHETIC LUBRICANT)	0	0
S	139049	TRANSMISSION OIL COOLER	MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER	0	0
	3IAA2X	GRADE GRIPPER	GRADE GRIPPER	0	0

				WEIGHT (LB)	
FRONT AXLE EQUIPMENT		DESCRIPTION		FRONT	REAR
	240AA7	FRONT AXLE	14600# (6600 KG) MACK FXL14.6 STRAIGHT SPINDLE/UNITIZED BEARINGS	69	0
	244AA9	SPRINGS - FRONT	MACK TAPERLEAF 14600# (6600 KG) GROUND LOAD RATING, EQUAL BIAS	16	0
	241081	BRAKES - FRONT	MERITOR "S" CAM TYPE 16.5" x 6" Q+	29	0
	U3XC9X	BRAKE DRUMS - FRONT	BRAKE, FRONT, DRUM LIGHT WEIGHT TRUTURN	0	0
S	UDXA1X	DUST SHIELDS - FRONT	DUST SHIELDS FOR FRONT AXLE	5	0
	U0AB1X	SLACK ADJUSTERS - FRONT	MERITOR - AUTOMATIC	3	0
	V7AB1X	BRAKE CHAMBERS - FRONT	FRONT BRAKE CHAMBER MANUFACTURER, HALDEX	0	0
	0KXA1X	HUBS - FRONT	FERROUS	106	0
S	61500A	FRONT AXLE LUBRICANT	FRONT AXLE LUBE, FAG NLGI2 GREASE	0	0
S	245AA5	STEERING	TRW THP60 POWER	64	0

				WEIGHT (LB)	
REAR AXLE EQUIPMENT		DESCRIPTION		FRONT	REAR
	268AC1	REAR AXLE	46000# (20900kg) MERITOR RT46-164EH	0	1,786
S	6MAA1X	WIDE TRACK AXLE OPTION	W/O WIDE TRACK AXLE	0	0
	R4XA1X	LUBE PUMP, REAR AXLE	LUBE PUMP AND FILTER	0	16
S	617003	DRIVE AXLE LUBRICANT	DRIVE AXLE LUBE, SHELL 75W90 SYNTHETIC OIL	0	0
S	01800Y	CARRIER - REAR AXLE	VENDOR AXLES	0	0
	254013	TRACTION DIFFERENTIAL	INTERWHEEL DIFFERENTIAL LOCK, ALL REAR AXLES	0	18
S	3LAC1X	POWER DIVIDER LOCKOUT	INTERAXLE POWER DIVIDER LOCKOUT, W/BUZZER & LIGHT	0	40
	TAXE8X	REAR AXLE RATIO	3.58 RATIO	0	0
	186AB6	REAR SUSPENSION	MACK AL-461 AIR 46,000 lb (NOT FOR USE WITH AIR DISC BRAKES)	0	1,145
	GWXJAX	BOGIE SPREAD, REAR	60" AXLE SPACING (BOGIE WHEELBASE)	0	56
S	ZAXA1X	SUSPENSION LEVELING DEVICE	ELECTRICAL REGULATION LEVELING DEVICE	0	3
S	J6DB1X	AIR SUSPENSION DUMP WARNING	AIR SUSPENSION DUMP, SPEED LIMITED, WARNING INDICATOR & BUZZER	0	0
S	YVXA1X	SHOCK ABSORBERS - REAR	REAR SHOCK ABSORBER	0	27
S	XYXA1X	TRANSVERSE TORQUE RODS	TRANSVERSE TORQUE ROD - ALL AXLES	0	0
S	237037	AUX.SPRING BRAKE QTY	AUX SPRING BRAKE QTY, 4 CHAMBERS	0	20
	253AA7	BRAKES - REAR	MERITOR - CAM 16.5"x8 5/8" Q+ (Total for QTY = 2)	0	49
S	U4XC9X	BRAKE DRUMS - REAR	BRAKE, DRIVE REAR, DRUM LIGHT WEIGHT TRUTURN	0	0

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			WEIGHT (LB)	
REAR AXLE EQUIPMENT	DESCRIPTION		FRONT	REAR
U1AB1X	SLACK ADJUSTERS - REAR	MERITOR - AUTOMATIC (Total for QTY = 2)	0	0
UEXA1X	DUST SHIELDS - REAR BRAKE	DUST SHIELDS FOR REAR AXLE	0	12
V1AB1X	REAR BRAKE CHAMBER SIZE	REAR SPRING BRAKE CHAMBERS 30/30 TYPE	0	0
N5FAFX	BRAKE ORI REAR-MOST DRIVE AXLE	DRUM BRAKE CHAMBER ORIENTATION: Middle Mount - Forward of Axle - Chamber Up	0	0
S 300AS0	PARKING BRAKE CHAMBER	HALDEX "GOLD SEAL PLUS" (3" STROKE) BRAKE CHAMBERS (Total for QTY = 2)	0	0
0LXI5X	HUBS - REAR	IRON PRESET REAR HUB W/INTEGRATED SPINDLE NUT	0	318
S 698098	ANTILOCK BRAKE SYSTEM	MACK ROAD STABILITY ADVANTAGE BENDIX ABS/ATC/ESP W/YAW CONTROL 4S4M	7	0
S URXD1X	AIR SYSTEM VALVE VENDOR	BENDIX SWITCHES AND VALVES WHERE POSSIBLE	0	0
H9CA1X	TRACTION CONTROL DISABLE (CA in PC29 only)	AUTOMATIC TRACTION CONTROL (ATC) FULL DISABLE SWITCH	0	0
S 3ZAA1X	SPRING BRAKE INVERSION VALVE	TRACTOR SPRING BRAKE INVERSION VALVE	5	0

			WEIGHT (LB)	
FRAME EQUIPMENT/FUEL TANKS	DESCRIPTION		FRONT	REAR
271235	WHEELBASE	235"	102	102
374062	AF (OVERHANG)	62"	-8	190
MCE08E	FRAME RAILS & LINERS	9.5 x 90 x 300mm - (0.37" x 3.54" x 11.81"); RBM 2,470,000 LB-IN	0	0
S A0XH2X	FRONT FRAME LENGTH	Standard Bumper Position	47	-2
281AA3	CROSSMEMBERS	HIGHWAY SEVERE DUTY BOC AND BCL CROSSMEMBERS	7	12
Q5AC1X	REAR CROSSMEMBER OPTIONS	BOXED AND TAPERED CROSSMEMBER	-17	91
X6XB2X	TAPERED FRAME RAIL ENDS	TAPERED AND FLANGED RAIL ENDS (28 deg.)	0	0
69XJ2X	MUD FLAP BRACKETS	FLEET ENGINEERS FB-27 SHORTIE BRACKET #33-04647;30.25"L;W/CONSPICUITY FEATURE	0	25
S 2HXA1X	MUD FLAP, FRONT AXLE	BLACK POLYARMOUR (NO NAME TO APPEAR ON FLAP) (NOT ANTI-SPRAY TYPE)	0	0
S 4DXP1X	FRONT BUMPER	FLUSH-STAINLESS CLAD ALUMINUM	98	-4
S 2RAA1X	FUEL LEVEL SENDER UNIT, LIQUID	BASIC FUEL LEVEL SENDER MOUNTED ON L.H TANK	0	0
288AC0	FUEL TANK - LH	117 GALLON (445 L) 26" ALUMINUM ROUND	223	93
290AC2	FUEL TANK - RH	50 GALLON (190 L) 26" ALUMINUM ROUND	115	80
R0AA1X	FUEL TANKS - BRIGHT FINISH	POLISHED ALUMINUM	0	0
S JHXB1X	FUEL LINE MATERIAL	BRAIDED HOSE	5	3
S 8520C2	FUEL FILLER NECK OPTIONS	WITHOUT FILLER NECK SCREEN, WITH NON-LOCKABLE FUEL TANK CAP	0	0
12AC1X	FUEL SYSTEM - DUAL	DUAL DRAW AND RETURN FUEL SYSTEM	0	0
S Q2AA1X	CAB ACCESS STEPS	STANDARD 2 STEP CAB ACCESS	0	0
S 223AA3	STEPS (BRIGHT) - FUEL TANK	STANDARD FINISH STEPS AND BRIGHT FINISH STRAPS	0	0
464AA5	QUARTER FENDERS	STAINLESS STEEL QUARTER FENDERS	0	20

			WEIGHT (LB)	
AIR/BRAKE	DESCRIPTION		FRONT	REAR
S 141AA1	RELOCATE AIR RESERVOIRS	W/O RELOCATED AIR TANKS	0	0
S UWXD1X	AIR TANK DRAIN VALVE	MANUAL DRAIN VALVES, WITH LANYARD ON SUPPLY TANK ONLY	0	0
S U2XA1X	AIR TANK MATERIAL & FINISH	ALUMINUM AIR TANK PAINTED CHASSIS COLOR	-13	-4
S 1JAABX	PARKING BRAKE VALVE	TWO (2) VALVE DUAL BRAKE SYSTEM - TRAILER SUPPLY AND TRACTOR-TRAILER PARK	0	0

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			WEIGHT (LB)	
ELECTRICAL	DESCRIPTION		FRONT	REAR
	5RXA6X	BACK-UP ALARM	ECCO BACK-UP ALARM 575 CONSTANT SOUND LEVEL 107 dB	0 3
	NGXB1X	FOG LAMPS	FOG LAMPS (ROUND)	9 0
S	3120A2	ROOF & SIDE MARKER LIGHTS	(5) TRUCKLITE CHROME BULLET ROOF MARKER & STANDARD MARKER / DIRECTIONAL SIGNAL	0 0
S	LJXB1X	HEADLAMP BULB TYPE	HEADLAMP BULB TYPE, LED	0 0
S	LSXJ7X	DAYTIME RUNNING LIGHTS	W/OVERRIDE SWITCH, PARK BRAKE & ENGINE RUNNING ACTIVATED	0 0
S	X2AA1X	DRL OVERRIDE SPEED THRESHOLD	DRL OVERRIDE SPEED THRESHOLD 8 KMPH (5 MPH)	0 0
	NEXC1X	TAIL LAMPS	INCANDESCENT TAIL LAMPS	0 7

			WEIGHT (LB)	
TRAILER CONNECTIONS	DESCRIPTION		FRONT	REAR
	33001U	FIFTH WHEEL	AIR - JOST JSK-37USLN SERIES, LH RELEASE, NO-TILT	0 512
S	6DXH1X	FIFTH WHEEL MTG ANGLES/DRILLING	SLIDING 5TH WHEEL MTG, 24" TRAVEL	0 75
S	LIXA1X	FIFTH WHEEL ANGLE MATERIAL	STEEL FIFTH WHEEL ANGLES	0 0
S	9DAABX	FIFTH WHEEL ANGLE THICKNESS	5TH WHEEL ANGLE, 10MM THICKNESS	0 0
	6BX6XX	FIFTH WHEEL OFFSET	50" BOGIESPREAD = -5" OFFSET, 52" BS = -4", 54" BS = -3", 55" BS = -2.5"	0 0
	E5BAWX	GRD.TO TOP OF FIFTH WHEEL	1308MM (51.5") GROUND TO 5TH WHEEL TOP HEIGHT	0 0
	6EXCLX	FIFTH WHEEL LEG-HEIGHT (KAX Result)	222MM (8.75"), FIFTH WHEEL LEG-HEIGHT (SELECTED BY KAX)	0 0
S	53XBAX	TRAILER GLAD HAND COUPLINGS	GLAD HAND COUPLINGS - NORTH AMERICAN STD	0 0
S	WGXA1X	HAND CONTROL VALVE	HAND CONTROL VALVE FOR TRAILER BRAKES W/ AIR CONNECTIONS OR SERVICE BRAKES W/O AIR CONNECTIONS	0 0
S	WHXQ1X	TRAILER CONNECTIONS	TRAILER AIR BRAKE CONNECTIONS, BACK OF CAB	0 0
S	7KXA3X	TRAILER ACCESS PACKAGE	LOW PROFILE DECK PLATE	18 45
S	51XD1X	HOSE TENDER/TOWEL BAR	HOSE TENDER, POGO STICK (CHASSIS MOUNTED)	0 0
S	321021	TRAILER ELECTRICAL RECEPT	SINGLE, 7 PINS STD SAE TYPE, BACK OF CAB	0 0
	5ZXA2X	TRAILER AIR HOSES	TRAILER AIR HOSES (16' COILED TYPE)	0 0
	2UAB2X	TRAILER ELECTRICAL CORD	TRAILER ELECTRICAL CORD CONFIG, COILED, LONG(4570MM OR 15')	3 0
S	3SAA1X	TRAILER CONNECTORS HOLDER	ELECTRICAL PLUG HOLDER (INCLUDES GLAD HAND STORAGE)	0 0

			WEIGHT (LB)	
PTO	DESCRIPTION		FRONT	REAR
	189AA6	TRANSMISSION MOUNTED PTO	PTRD-F, Single RH: SAE 1350/1410 Flange (Outer)	36 9
S	D4AA1X	AMT/AUTOMATIC TRANS PTO FUNCT.	TRANSMISSION PTO FUNCTIONS BASIC	0 0

			WEIGHT (LB)	
SPECIALTY EQUIPMENT	DESCRIPTION		FRONT	REAR
S	7VEZ1X	AUXILIARY POWER UNIT	WITHOUT AUXILIARY POWER UNIT	0 0
S	MCQ01Q	LANE SUPPORT SYSTEM (LSS)	WITHOUT LANE SUPPORT SYSTEM	0 0
S	2PEZ1X	DATA CAPTURE	WITHOUT DATA CAPTURE	0 0
S	1PAZ1X	SURVEILLANCE CAMERA OPTIONS (CA)	WITHOUT CAMERA	0 0

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				WEIGHT (LB)	
CAB INTERIOR (A THRU G)		DESCRIPTION	FRONT	REAR	
S	198048	SPEEDOMETER -&- GAUGES - UNIT(S) OF MEASURE	U.S. UNITS (PREDOMINANT)	0	0
	CCXE1X	GAUGE - PACKAGE, SECONDARY	2ND GA PKG W/ENG OIL TEMP, TRANS OIL TEMP, PYRO, AIR RESTRICT	0	0
	E1AAAX	GAUGE OIL TEMP-REAR AXLE	REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY)	0	0
S	4AXC1X	CLIMATE UNIT	ELECTRONIC CONTROLLED CLIMATE CONTROL AIR CONDITION	0	0
S	EEXA1X	CUPHOLDER	CUPHOLDER	0	0
S	I0XAHX	DOMELAMP, INTERIOR	(4) DOME LAMPS - DOOR AND SWITCH ACTIVATED	0	0
	7860E6	FIRE EXTINGUISHER	5LB (ABC RATED) MOUNTED BETWEEN DRIVER SEAT BASE AND DOOR VALVE AIMED REARWARD	9	0
	184AA3	FLOOR COVERING	POLYURETHANE FLOOR MAT W/ REMOVABLE INSERTS	16	0

				WEIGHT (LB)	
CAB INTERIOR (H THRU R)		DESCRIPTION	FRONT	REAR	
S	C52082	INSTRUMENT CLUSTER LANGUAGE	DEFAULT: ENGLISH, SPANISH, FRENCH	0	0
S	20XA1X	KEY TYPES FOR DOORS	ALL CHASSIS KEYED AT RANDOM	0	0
S	13AA1X	KEYLESS ENTRY	W/O ELECTRONIC KEYLESS ENTRY	0	0
	E3XD1X	OVERHEAD CONSOLE	(2) STORAGE COMPARTMENTS AND NET RETAINERS W/CENTER MOUNTING FOR CB PROVISIONS	0	0
S	1740D4	RADIO/RADIO ACCOMMODATION	PREMIUM STEREO, AM/FM, MP3, WEATHER BAND, BLUETOOTH	0	0
S	73AJ1X	RADIO - ANTENNA	48" ANTENNA RIGHT SIDE MIRROR MOUNTED	0	0
	5BXB5X	RADIO ANTENNA - CB	48" ANTENNA LEFT SIDE MIRROR MOUNTED	0	0
S	1WAB1X	RADIO - BINDING POSTS FOR CB	POWER LEADS (5-WAY BINDING POSTS FOR CB RADIO) IN HEADER CONSOLE	0	0
S	5CXB2X	AUDIO SPEAKER LOCATION	SPEAKER LOCATION, IN DOORS, MIDDLE HIGH SIDE PANEL	0	0
S	5JXALX	RADIO - CB RADIO MOUNTING	MOUNTING PLATE AND VELCRO STRAP IN HEADER CONSOLE	0	0
S	21XA1X	REAR WINDOW	REAR WINDOW (FIXED TYPE)	0	0
S	IFXB1X	REAR WALL STORAGE COMPARTMENT	STORAGE POUCH REAR	5	0
	784044	REFLECTOR KIT	W/O SLEEPER BOX FURNISH KIT PARALLEL TO OUTSIDE SURFACE OF RIDER'S SEAT BASE	12	3

				WEIGHT (LB)	
CAB INTERIOR (S THRU Z)		DESCRIPTION	FRONT	REAR	
	004034	INTERIOR TRIM LEVELS	PREFERRED TRIM PACKAGE, STEEL GRAY (Package 12A)	0	0
	1961B6	SEAT - DRIVER'S	NATIONAL-AIR, WIDE WIDTH/HIGH BACK, 3 CHAMBER AIR LUMBAR	60	16
	MAPA1X	SEAT COVERING - DRIVER'S	DRIVER'S SEAT - BLACK MORDURA	0	0
	1971F7	SEAT - PASSENGER'S	NATIONAL-AIR, WIDE WIDTH/HIGH BACK, 3 CHAMBER AIR LUMBAR	60	16
	MAQA1X	SEAT COVERING - PASSENGER'S	PASSENGER'S SEAT - BLACK MORDURA	0	0
	0HAB1X	SEAT - DUST COVER(S)	SEAT, DUST COVER FOR DRIVER'S AND RIDER'S SEATS	3	0
	3PXC1X	SEAT ARM REST(S)	INBOARD MOUNTED ARM REST, DRIVER'S & RIDER'S SEAT	5	3
S	592092	SEAT BELT(S)	LAP & SHOULDER (BOTH SEATS) CAB MOUNTED SHOULDER BELT ADJUSTMENT	0	0
S	D8XC1X	SEAT BELT WARNING INDICATOR	SEAT BELT REMINDER IN INSTRUMENT, WITH AUDIO	0	0
S	2QAA1X	STARTER SWITCH	KEY TYPE	0	0
	161021	STEERING WHEEL	2 SPOKE LEATHER 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

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				WEIGHT (LB)	
CAB INTERIOR (S THRU Z)		DESCRIPTION		FRONT	REAR
S	148AA3	WINDSHIELD WIPERS	2 SPEED ELECTRIC MOTOR W/INTERMITTENT FEATURE	0	0

				WEIGHT (LB)	
CAB - SLEEPER BOX		DESCRIPTION		FRONT	REAR
S	4ZXZ1X	SLPR. BOX - REFRIGERATOR PROV W/O SLEEPER BOX REFRIGERATOR		0	0

				WEIGHT (LB)	
CAB EXTERIOR		DESCRIPTION		FRONT	REAR
S	88AA1X	EMBLEMS OPTION	W/O MISC ORNAMENT CHANGE OPTION	0	0
S	MCY02Y	HOOD LATCH TYPE & FINISH	STRAP TYPE HOOD LATCH WITH BLACK FINISH	0	0
S	MCG0BG	EXTERIOR TRIM FINISH AND PACKAGES	PINNACLE BLACK AIR INTAKE	0	0
S	400AG0	GRILLE	HERITAGE DESIGN CHROME GRILLE W/ BLACK BACKGROUND	0	0
S	MCD03D	PASSENGER SIDE VISIBILITY OPTIONS	AUXILIARY WINDOW IN RH DOOR	3	0
S	5870G7	GRAB HANDLES	PREMIUM BLACK EXTERIOR CAB GRAB HANDLE, BLACK GRAB HANDLE RH INTERIOR WINDSHIELD POST	0	0
	154AA3	HORN - AIR	(2) MACK RECTANGULAR SINGLE TRUMPET (ONE EACH SIDE OF CAB ROOF)	7	0
S	LXXD1X	HORN - ELECTRICAL	DUAL TONE	5	0
	152AC5	MIRRORS - EXTERIOR	BULLDOG STYLIZED MIRRORS - LH & RH HEATED & MOTORIZED AND ILLUMINATED W/INTEGRAL CONVEX MIRROR	7	0
	157037	SUN VISOR - EXTERIOR	SUN VISOR, EXTERIOR, STAINLESS STEEL (UNPAINTED)	9	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
S	MCK03K	REAR CHASSIS AERODYNAMIC PACKAGE	WITHOUT REAR AERODYNAMIC FAIRING	0	0

				WEIGHT (LB)	
WHEELS & TIRES		DESCRIPTION		FRONT	REAR
	900AE5	TIRES BRAND/TYPE - FRONT	11R24.5 H BRIDGESTONE R250ED (14320 lbs) (Total for QTY = 2)	252	0
	5312R1	WHEELS - FRONT	24.5x8.25 ACCURIDE ACCU-LITE 42362x POLISHED ALUMINUM, 6.59" OFFSET, 10 HAND HOLE (Total for QTY = 2)	111	0
	901AK1	TIRES BRAND/TYPE - REAR	11R24.5 H BRIDGESTONE M799 (26440 lbs) (DRIVE ONLY) (Total for QTY = 8)	0	1,112
	346306	WHEELS - REAR	24.5x8.25 ACCURIDE ACCU-LITE 42362x POLISHED ALUMINUM, 6.59" OFFSET, 10 HAND HOLE (Total for QTY = 8)	0	441
S	15XABX	VALVE STEMS & CAPS	STANDARD VALVE STEMS AND CAPS	0	0
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

				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

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				WEIGHT (LB)	
ENGINE ELECTRONICS		DESCRIPTION		FRONT	REAR
	MAT03T	ENGINE FUEL ECONOMY SETTINGS -- SOFTWARE PACKAGES	ENGINE SOFTWARE SETTINGS - BEST PERFORMANCE	0	0
S	WOXA1X	SHUTDOWN-ENG.OIL PRESSURE	OIL PRESSURE, ENGINE SHUTDOWN	0	0
	WIXAAX	SHUTDOWN-ENG.COOLANT LVL.	COOLANT LEVEL ENGINE SHUTDOWN	0	0
S	WMXA1X	SHUTDOWN-ENG.COOLANT TEMP	COOLANT TEMP, ENGINE SHUTDOWN	0	0
S	K5XA2X	ENG /OIL TEMP SHUTDOWN	ENGINE PROTECTION (SHUTDOWN)	0	0
S	K7XY1X	LOW IDLE ENGINE RPM	IDLE CONTROL, 600 RPM	0	0
S	X0AB0X	IDLE RPM UP W/LOW VOLTAGE	INCREASE 10 MINUTE MAXIMUM TIME	0	0
S	M3CA1X	IDLE S/D ABS TAMPER CHECK	IDLE SHUTDOWN ABS TAMPER CHECK, ENABLED	0	0
S	B1AZ1X	IDLE S/D WARNING TIME	WITHOUT 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	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	D2AAFX	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	EHT, MAX ROAD SPEED	ELECTRONIC HAND THROTTLE, MAX ROAD SPEED, 16 KM/H (10 MPH)	0	0
	B6ACEX	EHT, MAX ENG SPEED	ELECTRONIC HAND THROTTLE, MAX ENGINE SPEED, 2100 RPM	0	0
S	B4ADAX	EHT, MIN ENG SPEED	ELECTRONIC HAND THROTTLE, MIN ENGINE SPEED, 700 RPM	0	0

				WEIGHT (LB)	
TRANSMISSION ELECTRONICS			DESCRIPTION	FRONT	REAR
	M050U5	TRANSMISSION DRIVE MODE PACKAGES, mDRIVE	mDRIVE- ENHANCED CONSTRUCTION - ECON, PERF, & PERF+ DRIVE MODES, MANUAL RETURN (premium)	0	0
	M08038	ECONO ROLL	ECONO ROLL DISABLE mDRIVE (REQUIRED FOR ALL OTHER TRANSMISSIONS)	0	0
S	6SAA1X	mDRIVE MACKCELLERATOR	MACKCELLERATOR ENABLE	0	0
S	779001	TRANSMISSION ELECTRONICS PACKAGE	W/O ELEC TRANS PACKAGE OPTION (all non-Allison transmissions)	0	0
	B1EA1X	TRANSM AUTO NEUTRAL ON P-BRAKE	mDRIVE TRANSMISSION PARK BRAKE AUTO NEUTRAL	0	0
S	MAV01V	TRANSMISSION ELECTRONIC SHIFTING PROPERTIES	W/O ALLISON FUELSSENSE 2.0 PROGRAMMING	0	0

				WEIGHT (LB)	
VEHICLE ELECTRONICS		DESCRIPTION		FRONT	REAR
	JCXFEX	ROAD SPEED LIMIT (RSL)	113 KM/H ROAD SPEED LIMITER (70MPH)	0	0
	Y3CC8X	PEDAL SPEED LIMITER	108 KM/H PEDAL ROAD SPEED LIMITER (67MPH)	0	0
S	JDXA1X	CRUISE CONTROL	CRUISE CONTROL	0	0
	JFXNGX	CRUISE CONTROL, MAX SPEED	MAX CRUISE, 113 KPH (70 MPH)	0	0
S	E3AACX	CRUISE CONTROL MIN SPEED	MIN CRUISE, 32 KPH (20 MPH)	0	0
S	E5AACX	ENG BRAKE ENGAGE IN CRUISE	ENG BRK ENGAGE IN CRUISE, 3 MPH, ABOVE SET SPEED	0	0
	U4AA1X	LOWER GEAR RD.SPD.LMT.OPT	LOWER GEAR VEHICLE LIMITING FEATURE	0	0
	U5AL3X	LOW GEAR VEHICLE SPEED LIMITING	LGVLS 103 KM/H, 64 MPH	0	0
S	X2BB1X	ROAD SPEED LIMIT CONTROL TYPE	RSL CONTROL TYPE NORMAL	0	0
	L2CC1X	PDLO ENGAGED VLS	POWER DIVIDER LOCK OUT (PDLO) ROAD SPEED LIMIT 40KM/H (25MPH)	0	0

TECHNICAL SPECIFICATION (cont.)



				WEIGHT (LB)	
VEHICLE ELECTRONICS		DESCRIPTION		FRONT	REAR
	Q6FAHX	DIFF LOCK SPEED LIMIT	DIFFERENTIAL LOCK ROAD SPEED LIMIT 24KMH (15MPH)	0	0
	W5BJ2X	MAXIMUM ENG SPEED AT 0 MPH	1950 MAXIMUM ENGINE SPEED AT 0 MPH	0	0
S	A4BAAX	SPEED SENSOR TAMPERING DETECTION	DETECTION OF SPEED SENSOR TAMPERING, ENABLE	0	0
S	8RXAEX	PWR.LIMIT LVL.-MPH SENSOR	ENG TORQUE LIMITED TO 50%, IF SPEED SENSOR TAMPER DETECTED	0	0
S	0PAZ1X	DRIVER PERFORMANCE & BONUS PARAMETERS	WITHOUT DRIVER PERFORMANCE PARAMETERS	0	0
S	G5AAHX	DATAMAX ENGINE OVERSPEED-COMPANY	ENGINE OVERSPEED, ALL CONDITIONS, TIME LOG IF ABOVE 2200 RPM	0	0
S	G2AAGX	DATAMAX ENGINE OVERSPEED-FUEL	ENGINE OVERSPEED, FUELED, TIME LOG IF ABOVE 2100 RPM	0	0
S	G4AAUX	DATAMAX VEHICLE OVERSPEED-ALL	VEHICLE OVERSPEED,ALL COND, TIME LOG IF ABOVE 75MPH (121KMH)	0	0
S	G3AAPX	DATAMAX VEHICLE OVERSPEED-FUEL	VEHICLE OVERSPEED, FUELED, TIME LOG IF ABOVE 70MPH (113KMH)	0	0
S	G1AABX	DATAMAX IDLE LOG DELAY	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	Y9CR1X	TRANS PTO1 SPLITTER RANGE	PTO1 FOR SPLITTER RANGE - KEYPAD REMOTE CONTROLLED	0	0
S	Z1CR1X	TRANS PTO2 SPLITTER RANGE	PTO2 FOR SPLITTER RANGE - KEYPAD REMOTE CONTROLLED	0	0

				WEIGHT (LB)	
PAINT		DESCRIPTION		FRONT	REAR
S	950AC0	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
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	MPA998	ROOF FAIRING COLOR	WITHOUT ROOF FAIRING	0	0
S	95103K	CHASSIS RUNNING GEAR	MACK BLACK (60 GLOSS); 250-12370	0	0
S	958028	BUMPER	W/O OPTIONAL BUMPER PAINT	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

				WEIGHT (LB)	
CALCULATED CODES - KAX		DESCRIPTION		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

TECHNICAL SPECIFICATION (cont.)



				WEIGHT (LB)	
BASE WARRANTY & PURCHASED COVERAGES			DESCRIPTION	FRONT	REAR
S	898002	VEHICLE WARRANTY TYPE	NORMAL DUTY WARRANTY CLASSIFICATION	0	0
S	M50020	BASIC CHASSIS COVERAGE	NORMAL DUTY STANDARD BASE COVERAGE 12 MONTHS/100,000 MILES (160,934 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
	M540Y4	TRANSMISSION WARRANTY	mDRIVE HD TRANSMISSION NORMAL DUTY COVERAGE: 60 MONTHS OR 750,000 MILES	0	0
S	M55055	CARRIER & AXLE HOUSING WARRANTY	STANDARD VENDOR NORMAL / HEAVY DUTY COVERAGE 36 MONTHS/350,000 (563,00 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

				WEIGHT (LB)	
CONNECTED SERVICES			DESCRIPTION	FRONT	REAR
S	S03011	MACK INTEGRATED UPTIME	MACK INTEGRATED UPTIME - 24 MONTHS	0	0
	S04011	MACK CONNECT LOCATION & REPORTING	MACK CONNECT LOCATION & REPORTING - 24 MONTHS	0	0
S	S05010	FLEET INTEGRATION	WITHOUT FLEET INTEGRATION	0	0
S	S06400	PARTNERED SERVICES	NO PARTNERED SERVICES PROVIDED	0	0

FRONT / REAR AXLE WEIGHTS (LB)

9558

9304

TOTAL WEIGHT (LB)

18861

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FACTORY BUILD SHEET MANUAL TRANSMISSION

TECHNICAL SPECIFICATION

PINNACLE 64T DAYCAB MACK SPEC



				WEIGHT (LB)	
MODEL DEFINING		DESCRIPTION		FRONT	REAR
S	PB100M	PRICE BOOK LEVEL	2008-10-07	0	0
S	LAX05X	VOLTAGE	ELECTRICAL SYSTEM 12 VOLT	0	0

				WEIGHT (LB)	
APPLICATION PACKAGES		DESCRIPTION		FRONT	REAR
	MPK11K	CHASSIS CONFIGURATION PACKAGE	ONEBOX EATS, RIGHT FRONT BATTERY BOX, 18.4 GALLON (70L) DEF, DUAL 26" FUEL TANKS	0	0

				WEIGHT (LB)	
CUSTOMER/VEHICLE INFO		DESCRIPTION		FRONT	REAR
S	002F62	CHASSIS (BASE MODEL)	PINNACLE 64T DAYCAB MACKSPEC	5,038	2,090
	MP2002	CUSTOMER FLEET SIZE	REGIONAL FLEET 25 OR MORE VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND	0	0
S	M45001	ORDER TYPE REQUIREMENTS	RETAIL OR STOCK - CUSTOM SPECIFICATIONS	0	0
	013002	TYPE OF SERVICE	MUNICIPAL	0	0
S	M98018	WARRANTY REGISTRATION LOCATION	USA - WARRANTY REGISTRATION LOCATION	0	0
	MBT01T	EMISSION WARRANTY CERTIFICATION	EPA (only) for Mack MP7 / MP8 Diesel	0	0
	694DDD	Order Subject to Meeting All Mack Policies, Terms and Conditions, INTENDED REGISTRATION LOCATION	Including but not Limited to Applicable CARB and/or Section 177 States' Regulation requirements ALABAMA	0	0
S	5050B5	INITIAL REGISTRATION LOCATION	USA REGISTRATION	0	0
	5FFB1X	BRAND ORNAMENT	BULLDOG, CHROME	0	0
S	534014	LANGUAGE-PUBS/DECAL/SIGNS	ENGLISH	0	0
	005025	VEHICLE USE & BODY/TRAILER TYPE	LOW BOY MACHINERY TRAILER	0	0
S	78XB1X	TRANSPORT CYCLE	LOCAL DISTRIBUTION	0	0
S	DKXG2X	GROSS COMBINATION WEIGHT (CA in PC29 only)	80,000 LB (36 TONNES) GROSS COMBINATION WEIGHT	0	0
S	70BC1X	BRAKE REGULATION	BRAKE REGULATION, STOPPING DISTANCE 76M (250FT)	0	0
	QCXA1X	TOPOGRAPHY	GRADES <3% GREATER THAN 98% OF DRIVING DISTANCE MAX GRADE 8%	0	0
S	E1BD1X	AMBIENT TEMP UPPER LIMIT	AMBIENT TEMPERATURE HOT. WARMER THAN 104 F (40 C) ALLOWED UP TO 25 HOURS PER YEAR	0	0
S	032A79	OPERATING TERRAIN GRADE CONDITIONS	ON HIGHWAY, STARTING GRADES<16%	0	0
S	033A10	LOADING SURFACE FACTOR	CONCRETE LOADING AND / OR UNLOADING SURFACE	0	0
	0341A2	VEHICLE VOCATION	PICKUP & DELIVERY / SHORT HAUL SERVICE	0	0

				WEIGHT (LB)	
ENGINE/TRANSMISSIONS		DESCRIPTION		FRONT	REAR
	1004G0	ENGINE / MOTOR	MP8-505C+ MACK 505HP @ 1400-1700 RPM (PEAK) 2100 RPM (GOV) 1900 LB-FT, US'21	2,108	530
S	Q1CA1X	GEAR SELECTION TUNING	BASIC, GEAR-SELECTION TUNING	0	0
S	3GCA1X	GHG APPLICATION, VEHICLE	GREEN HOUSE GAS HIGHWAY APPLICATION	0	0
	136AG5	TRANSMISSION	FULLER RTLO-20918B (14.40/0.73)	618	206
S	V4EZ9X	GEARBOX 12TH GEAR LOCK-OUT	WITHOUT 12TH GEARBOX GEAR LOCK-OUT	0	0

TECHNICAL SPECIFICATION *(cont.)*



				WEIGHT (LB)	
EXHAUST/EMISSIONS		DESCRIPTION		FRONT	REAR
	Z8FT1X	NOX LIMITS	CARB LEGACY / EPA (200MG/HP/HR), 50 State Idle Compliance	0	0
S	Y7BC1X	IDLE EMISSION LABEL LOCATION (CA in PC29 only)	IDLE EMISSION LABEL LOCATION, LOWER LH CORNER OF DRIVER DOOR	0	0
S	DPF04F	DPF DIESEL PARTICULATE FILTER	CLEARTECH ONE BOX E.A.T.S. RH SIDE UNDER CAB US17 / US21	0	0
	MCF04F	CHASSIS MOUNTED EMISSIONS FINISH	BRIGHT FINISH DEF COVER & PAINTED DPF COVER	0	0
S	DF10N1	DIESEL EXHAUST FLUID TANK	18.4 GALLON (70 L) 26" LEFT SIDE FRAME MOUNTED	190	67
	130AC4	EXHAUST	DUAL VERTICAL OUTBOARD MOUNTED STRAIGHT EXHAUST STACK TURNED OUT END	89	51
S	KRXB5X	EXHAUST STACK HEIGHT	11' 6" FROM GROUND	0	0
	Q0AF2X	EXHAUST - BRIGHT FINISH	DUAL, BRIGHT FINISH HEAT SHIELDS, STACKS, ELBOWS	0	0

				WEIGHT (LB)	
ENGINE EQUIPMENT		DESCRIPTION		FRONT	REAR
	125055	AIR CLEANER	UNDER HOOD SINGLE ELEMENT DRY TYPE W/AIR INTAKE FROM BOTH SIDES OF HOOD&DASH MTD AIR RESTRICTION IND	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	851004	AIR DRYER POSITION (CA)	STANDARD AIR DRYER LOCATION	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	316AA5	BATTERIES	(3) MACK 12V 760/2280 CCA THREADED STUD TYPE	7	3
S	393AA9	BATTERY BOX - MOUNTING (x)	RH RAIL UNDER CAB (3 BATTERY MAX)	0	0
	L5XF1X	BATTERY BOX COVER	POLISHED ALUMINUM	5	0
S	NCXA5X	STARTER MOTOR	12 VOLT DELCO 39MT-MXT	31	0
	110AA6	ENGINE BRAKE	MACK MP8 POWERLEASH	0	0
S	JMxB1X	VEHICLE/TRAILER STOP LAMP APPLICATION (CA)	VEHICLE AND TRAILER (IF APPLICABLE) STOP LAMPS ACTIVATE UPON SERVICE BRAKE APPLICATION ONLY(3899000)	0	0
S	J2EAAX	ENGINE BRAKE ACTIVATION	ENGINE BRAKE ACTIVATION, BASIC	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
	H9XK1X	RADIATOR TYPE	RADIATOR, CORE AREA W/O FEPTO 1345sq in (86sq dm), CORE AREA W/ FEPTO 1296sq in (83sq dm)	0	0
	124AA2	HOSES - RADIATOR/HEATER	SILICONE RADIATOR AND HEATER HOSES	0	0
S	293043	FUEL-WATER SEPARATOR	MACK W/MANUAL DRAIN VALVE V2 (INTEGRAL W/ PRIMARY FUEL FILTER)	0	0
S	MCA04A	ENGINE HEATERS	120v 1500w BLOCK HEATER ONLY	0	0
	5NXA1X	ENGINE BLOCK HEATER	120V 1500W ENGINE BLOCK HEATER	5	0
	MAH01I	PLUG QUANTITY & TYPE	SINGLE (1) 120V-15A PLUG	0	0
S	QHXC1X	OIL SUMP	OIL PAN	0	0
S	36AA1X	TETHER DEV PKG, CAPS & COVERS	FURNISH CAP RETAINER FOR OIL FILL & RADIATOR OVERFLOW TANK	0	0
S	2YBZ1X	EMERGENCY ENGINE STOP (CA)	WITHOUT ENGINE STOP, EMERGENCY	0	0

				WEIGHT (LB)	
CLUTCH/TRANS EQUIPMENT		DESCRIPTION		FRONT	REAR
	492032	GEAR SHIFTER	EATON/FULLER SHIFTER	0	0
	133AD6	CLUTCH	EATON ADVANTAGE SOLO 9-SPRING,2PLATE 15.5" CERAMIC 6 PADDLES, SELF ADJUST	7	0

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TECHNICAL SPECIFICATION (cont.)



			WEIGHT (LB)	
CLUTCH/TRANS EQUIPMENT	DESCRIPTION		FRONT	REAR
MCB03B	CLUTCH ACTUATION SYSTEM & PEDAL PAD	AIR ASSIST CLUTCH CABLE SYSTEM WITH RUBBER PEDAL	0	0
2XAB1X	CLUTCH PEDAL	RUBBER PAD	3	0
IUXC1X	CLUTCH ASSIST (AIR)	AIR OPERATED CLUTCH ASSIST	-2	0
RBXE1X	CLUTCH RELEASE HOSE	REMOTE LUBE FTGS:CLUTCH REL. BRG & BOTH CROSS-SHAFTS;MTD LH RAIL,UNDER HOOD	0	0
1950J5	DRIVELINE - MAIN	SPICER SPL250HDXL LITE - LARGE (PROPS-L)	31	31
204044	DRIVELINE - INTERAXLE	SPICER SPL170XL "LITE SERIES"	0	27
S 76AA1X	DRIVESHAFT MAIN U-JOINT	UNIVERSAL JOINT HALF-ROUND TYPE (where applicable)	0	0
S 8WAAAX	DRIVESHAFT INTERAXLE U-JOINT	HALF-ROUND UNIVERSAL JOINT	0	0
S 4LDA1X	TRANSMISSION OUTPUT TORQUE	TRANSMISSION OUTPUT TORQUE BASIC	0	0
S 7RXB1X	LUBRICANTS, TRANSMISSION	SYNTHETIC OIL IN TRANSMISSION	0	0
139AA2	TRANSMISSION OIL COOLER	TRANS OIL COOLER (INTEGRAL OIL PUMP)	45	3

			WEIGHT (LB)	
FRONT AXLE EQUIPMENT	DESCRIPTION		FRONT	REAR
240AA7	FRONT AXLE	14600# (6600 KG) MACK FXL14.6 STRAIGHT SPINDLE/UNITIZED BEARINGS	69	0
244AA9	SPRINGS - FRONT	MACK TAPERLEAF 14600# (6600 KG) GROUND LOAD RATING, EQUAL BIAS	16	0
241081	BRAKES - FRONT	MERITOR "S" CAM TYPE 16.5" x 6" Q+	29	0
U3XC9X	BRAKE DRUMS - FRONT	BRAKE, FRONT, DRUM LIGHT WEIGHT TRUTURN	0	0
S UDXA1X	DUST SHIELDS - FRONT	DUST SHIELDS FOR FRONT AXLE	5	0
U0AB1X	SLACK ADJUSTERS - FRONT	MERITOR - AUTOMATIC	3	0
V7AB1X	BRAKE CHAMBERS - FRONT	FRONT BRAKE CHAMBER MANUFACTURER, HALDEX	0	0
0KXA1X	HUBS - FRONT	FERROUS	106	0
S 61500A	FRONT AXLE LUBRICANT	FRONT AXLE LUBE, FAG NLGI2 GREASE	0	0
S 245AA5	STEERING	TRW THP60 POWER	64	0

			WEIGHT (LB)	
REAR AXLE EQUIPMENT	DESCRIPTION		FRONT	REAR
268AC1	REAR AXLE	46000# (20900kg) MERITOR RT46-164EH	0	1,786
S 6MAA1X	WIDE TRACK AXLE OPTION	W/O WIDE TRACK AXLE	0	0
R4XA1X	LUBE PUMP, REAR AXLE	LUBE PUMP AND FILTER	0	16
S 617003	DRIVE AXLE LUBRICANT	DRIVE AXLE LUBE, SHELL 75W90 SYNTHETIC OIL	0	0
S 01800Y	CARRIER - REAR AXLE	VENDOR AXLES	0	0
254013	TRACTION DIFFERENTIAL	INTERWHEEL DIFFERENTIAL LOCK, ALL REAR AXLES	0	18
S 3LAC1X	POWER DIVIDER LOCKOUT	INTERAXLE POWER DIVIDER LOCKOUT, W/BUZZER & LIGHT	0	40
TAXE8X	REAR AXLE RATIO	3.58 RATIO	0	0
186AB6	REAR SUSPENSION	MACK AL-461 AIR 46,000 lb (NOT FOR USE WITH AIR DISC BRAKES)	0	1,145
GWXJAX	BOGIE SPREAD, REAR	60" AXLE SPACING (BOGIE WHEELBASE)	0	56
S ZAXA1X	SUSPENSION LEVELING DEVICE	ELECTRICAL REGULATION LEVELING DEVICE	0	3
S J6DB1X	AIR SUSPENSION DUMP WARNING	AIR SUSPENSION DUMP, SPEED LIMITED, WARNING INDICATOR & BUZZER	0	0
S YVXA1X	SHOCK ABSORBERS - REAR	REAR SHOCK ABSORBER	0	27
S XYXA1X	TRANSVERSE TORQUE RODS	TRANSVERSE TORQUE ROD - ALL AXLES	0	0
S 237037	AUX.SPRING BRAKE QTY	AUX SPRING BRAKE QTY, 4 CHAMBERS	0	20

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				WEIGHT (LB)	
REAR AXLE EQUIPMENT		DESCRIPTION	FRONT	REAR	
	253AA7	BRAKES - REAR	MERITOR - CAM 16.5"x8 5/8" Q+ (Total for QTY = 2)	0	49
S	U4XC9X	BRAKE DRUMS - REAR	BRAKE, DRIVE REAR, DRUM LIGHT WEIGHT TRUTURN	0	0
	U1AB1X	SLACK ADJUSTERS - REAR	MERITOR - AUTOMATIC (Total for QTY = 2)	0	0
	UEXA1X	DUST SHIELDS - REAR BRAKE	DUST SHIELDS FOR REAR AXLE	0	12
	V1AB1X	REAR BRAKE CHAMBER SIZE	REAR SPRING BRAKE CHAMBERS 30/30 TYPE	0	0
	N5FAFX	BRAKE ORI REAR-MOST DRIVE AXLE	DRUM BRAKE CHAMBER ORIENTATION: Middle Mount - Forward of Axle - Chamber Up	0	0
S	300AS0	PARKING BRAKE CHAMBER	HALDEX "GOLD SEAL PLUS" (3" STROKE) BRAKE CHAMBERS (Total for QTY = 2)	0	0
	0LXI5X	HUBS - REAR	IRON PRESET REAR HUB W/INTEGRATED SPINDLE NUT	0	318
S	698098	ANTILOCK BRAKE SYSTEM	MACK ROAD STABILITY ADVANTAGE BENDIX ABS/ATC/ESP W/YAW CONTROL 4S4M	7	0
S	URXD1X	AIR SYSTEM VALVE VENDOR	BENDIX SWITCHES AND VALVES WHERE POSSIBLE	0	0
	H9CA1X	TRACTION CONTROL DISABLE (CA in PC29 only)	AUTOMATIC TRACTION CONTROL (ATC) FULL DISABLE SWITCH	0	0
S	3ZAA1X	SPRING BRAKE INVERSION VALVE	TRACTOR SPRING BRAKE INVERSION VALVE	5	0

				WEIGHT (LB)	
FRAME EQUIPMENT/FUEL TANKS		DESCRIPTION	FRONT	REAR	
	271235	WHEELBASE	235"	102	102
	374062	AF (OVERHANG)	62"	-8	190
	MCE08E	FRAME RAILS & LINERS	9.5 x 90 x 300mm - (0.37" x 3.54" x 11.81"); RBM 2,470,000 LB-IN	0	0
S	A0XH2X	FRONT FRAME LENGTH	Standard Bumper Position	47	-2
	281AA3	CROSSMEMBERS	HIGHWAY SEVERE DUTY BOC AND BCL CROSSMEMBERS	7	12
	Q5AC1X	REAR CROSSMEMBER OPTIONS	BOXED AND TAPERED CROSSMEMBER	-17	91
	X6XB2X	TAPERED FRAME RAIL ENDS	TAPERED AND FLANGED RAIL ENDS (28 deg.)	0	0
	69XJ2X	MUD FLAP BRACKETS	FLEET ENGINEERS FB-27 SHORTIE BRACKET #33-04647;30.25"L;W/CONSPICUITY FEATURE	0	25
S	2HXA1X	MUD FLAP, FRONT AXLE	BLACK POLYARMOUR (NO NAME TO APPEAR ON FLAP) (NOT ANTI-SPRAY TYPE)	0	0
S	4DXP1X	FRONT BUMPER	FLUSH-STAINLESS CLAD ALUMINUM	98	-4
S	2RAA1X	FUEL LEVEL SENDER UNIT, LIQUID	BASIC FUEL LEVEL SENDER MOUNTED ON L.H TANK	0	0
	288AC0	FUEL TANK - LH	117 GALLON (445 L) 26" ALUMINUM ROUND	223	93
	290AC2	FUEL TANK - RH	50 GALLON (190 L) 26" ALUMINUM ROUND	115	80
	R0AA1X	FUEL TANKS - BRIGHT FINISH	POLISHED ALUMINUM	0	0
S	JHXB1X	FUEL LINE MATERIAL	BRAIDED HOSE	5	3
S	8520C2	FUEL FILLER NECK OPTIONS	WITHOUT FILLER NECK SCREEN, WITH NON-LOCKABLE FUEL TANK CAP	0	0
	12AC1X	FUEL SYSTEM - DUAL	DUAL DRAW AND RETURN FUEL SYSTEM	0	0
S	Q2AA1X	CAB ACCESS STEPS	STANDARD 2 STEP CAB ACCESS	0	0
S	223AA3	STEPS (BRIGHT) - FUEL TANK	STANDARD FINISH STEPS AND BRIGHT FINISH STRAPS	0	0
	464AA5	QUARTER FENDERS	STAINLESS STEEL QUARTER FENDERS	0	20

				WEIGHT (LB)	
AIR/BRAKE		DESCRIPTION	FRONT	REAR	
S	141AA1	RELOCATE AIR RESERVOIRS	W/O RELOCATED AIR TANKS	0	0
S	UWXD1X	AIR TANK DRAIN VALVE	MANUAL DRAIN VALVES, WITH LANYARD ON SUPPLY TANK ONLY	0	0
S	U2XA1X	AIR TANK MATERIAL & FINISH	ALUMINUM AIR TANK PAINTED CHASSIS COLOR	-13	-4

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				WEIGHT (LB)	
AIR/BRAKE		DESCRIPTION		FRONT	REAR
S	1JAABX	PARKING BRAKE VALVE	TWO (2) VALVE DUAL BRAKE SYSTEM - TRAILER SUPPLY AND TRACTOR-TRAILER PARK	0	0

				WEIGHT (LB)	
ELECTRICAL		DESCRIPTION		FRONT	REAR
	5RXA6X	BACK-UP ALARM	ECCO BACK-UP ALARM 575 CONSTANT SOUND LEVEL 107 dB	0	3
	NGXB1X	FOG LAMPS	FOG LAMPS (ROUND)	9	0
S	3120A2	ROOF & SIDE MARKER LIGHTS	(5) TRUCKLITE CHROME BULLET ROOF MARKER & STANDARD MARKER / DIRECTIONAL SIGNAL	0	0
S	LJXB1X	HEADLAMP BULB TYPE	HEADLAMP BULB TYPE, LED	0	0
S	LSXJ7X	DAYTIME RUNNING LIGHTS	W/OVERRIDE SWITCH, PARK BRAKE & ENGINE RUNNING ACTIVATED	0	0
S	X2AA1X	DRL OVERRIDE SPEED THRESHOLD	DRL OVERRIDE SPEED THRESHOLD 8 KMPH (5 MPH)	0	0
	NEXC1X	TAIL LAMPS	INCANDESCENT TAIL LAMPS	0	7

				WEIGHT (LB)	
TRAILER CONNECTIONS		DESCRIPTION		FRONT	REAR
	33001U	FIFTH WHEEL	AIR - JOST JSK-37USLN SERIES, LH RELEASE, NO-TILT	0	512
S	6DXH1X	FIFTH WHEEL MTG ANGLES/DRILLING	SLIDING 5TH WHEEL MTG, 24" TRAVEL	0	75
S	LIXA1X	FIFTH WHEEL ANGLE MATERIAL	STEEL FIFTH WHEEL ANGLES	0	0
S	9DAABX	FIFTH WHEEL ANGLE THICKNESS	5TH WHEEL ANGLE, 10MM THICKNESS	0	0
	6BX6XX	FIFTH WHEEL OFFSET	50" BOGIESPREAD = -5" OFFSET, 52" BS = -4", 54" BS = -3", 55" BS = -2.5"	0	0
	E5BAWX	GRD.TO TOP OF FIFTH WHEEL	1308MM (51.5") GROUND TO 5TH WHEEL TOP HEIGHT	0	0
	6EXCLX	FIFTH WHEEL LEG-HEIGHT (KAX Result)	222MM (8.75"), FIFTH WHEEL LEG-HEIGHT (SELECTED BY KAX)	0	0
S	53XBAX	TRAILER GLAD HAND COUPLINGS	GLAD HAND COUPLINGS - NORTH AMERICAN STD	0	0
S	WGXA1X	HAND CONTROL VALVE	HAND CONTROL VALVE FOR TRAILER BRAKES W/ AIR CONNECTIONS OR SERVICE BRAKES W/O AIR CONNECTIONS	0	0
S	WHXQ1X	TRAILER CONNECTIONS	TRAILER AIR BRAKE CONNECTIONS, BACK OF CAB	0	0
S	7KXA3X	TRAILER ACCESS PACKAGE	LOW PROFILE DECK PLATE	18	45
S	51XD1X	HOSE TENDER/TOWEL BAR	HOSE TENDER, POGO STICK (CHASSIS MOUNTED)	0	0
S	321021	TRAILER ELECTRICAL RECEPT	SINGLE, 7 PINS STD SAE TYPE, BACK OF CAB	0	0
	5ZXA2X	TRAILER AIR HOSES	TRAILER AIR HOSES (16' COILED TYPE)	0	0
	2UAB2X	TRAILER ELECTRICAL CORD	TRAILER ELECTRICAL CORD CONFIG, COILED, LONG(4570MM OR 15')	3	0
S	3SAA1X	TRAILER CONNECTORS HOLDER	ELECTRICAL PLUG HOLDER (INCLUDES GLAD HAND STORAGE)	0	0

				WEIGHT (LB)	
PTO		DESCRIPTION		FRONT	REAR
	TYXE1X	PTO - CONTROL	TRANSMISSION PTO SWITCH AND LIGHT WITH WIRING AND PIPING FOR LOCAL INSTALLATION	3	0

				WEIGHT (LB)	
SPECIALTY EQUIPMENT		DESCRIPTION		FRONT	REAR
S	7VEZ1X	AUXILIARY POWER UNIT	WITHOUT AUXILIARY POWER UNIT	0	0
S	MCQ01Q	LANE SUPPORT SYSTEM (LSS)	WITHOUT LANE SUPPORT SYSTEM	0	0
S	2PEZ1X	DATA CAPTURE	WITHOUT DATA CAPTURE	0	0

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			WEIGHT (LB)	
SPECIALTY EQUIPMENT	DESCRIPTION		FRONT	REAR
S 1PAZ1X	SURVEILLANCE CAMERA OPTIONS (CA)	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
CCXE1X	GAUGE - PACKAGE, SECONDARY	2ND GA PKG W/ENG OIL TEMP, TRANS OIL TEMP, PYRO, AIR RESTRICT	0	0
E1AAAX	GAUGE OIL TEMP-REAR AXLE	REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY)	0	0
S 4AXC1X	CLIMATE UNIT	ELECTRONIC CONTROLLED CLIMATE CONTROL AIR CONDITION	0	0
S EEXA1X	CUPHOLDER	CUPHOLDER	0	0
S 10XAHX	DOMELAMP, INTERIOR	(4) DOME LAMPS - DOOR AND SWITCH ACTIVATED	0	0
7860E6	FIRE EXTINGUISHER	5LB (ABC RATED) MOUNTED BETWEEN DRIVER SEAT BASE AND DOOR VALVE AIMED REARWARD	9	0
184AA3	FLOOR COVERING	POLYURETHANE FLOOR MAT W/ REMOVABLE INSERTS	16	0

			WEIGHT (LB)	
CAB INTERIOR (H THRU R)	DESCRIPTION		FRONT	REAR
S C52082	INSTRUMENT CLUSTER LANGUAGE	DEFAULT: ENGLISH, SPANISH, FRENCH	0	0
S 20XA1X	KEY TYPES FOR DOORS	ALL CHASSIS KEYED AT RANDOM	0	0
S 13AA1X	KEYLESS ENTRY	W/O ELECTRONIC KEYLESS ENTRY	0	0
E3XD1X	OVERHEAD CONSOLE	(2) STORAGE COMPARTMENTS AND NET RETAINERS W/CENTER MOUNTING FOR CB PROVISIONS	0	0
S 1740D4	RADIO/RADIO ACCOMMODATION	PREMIUM STEREO, AM/FM, MP3, WEATHER BAND, BLUETOOTH	0	0
S 73AJ1X	RADIO - ANTENNA	48" ANTENNA RIGHT SIDE MIRROR MOUNTED	0	0
5BXB5X	RADIO ANTENNA - CB	48" ANTENNA LEFT SIDE MIRROR MOUNTED	0	0
S 1WAB1X	RADIO - BINDING POSTS FOR CB	POWER LEADS (5-WAY BINDING POSTS FOR CB RADIO) IN HEADER CONSOLE	0	0
S 5CXB2X	AUDIO SPEAKER LOCATION	SPEAKER LOCATION, IN DOORS, MIDDLE HIGH SIDE PANEL	0	0
S 5JXALX	RADIO - CB RADIO MOUNTING	MOUNTING PLATE AND VELCRO STRAP IN HEADER CONSOLE	0	0
S 21XA1X	REAR WINDOW	REAR WINDOW (FIXED TYPE)	0	0
S IFXB1X	REAR WALL STORAGE COMPARTMENT	STORAGE POUCH REAR	5	0
784044	REFLECTOR KIT	W/O SLEEPER BOX FURNISH KIT PARALLEL TO OUTSIDE SURFACE OF RIDER'S SEAT BASE	12	3

			WEIGHT (LB)	
CAB INTERIOR (S THRU Z)	DESCRIPTION		FRONT	REAR
004034	INTERIOR TRIM LEVELS	PREFERRED TRIM PACKAGE, STEEL GRAY (Package 12A)	0	0
1961B6	SEAT - DRIVER'S	NATIONAL-AIR, WIDE WIDTH/HIGH BACK, 3 CHAMBER AIR LUMBAR	60	16
MAPA1X	SEAT COVERING - DRIVER'S	DRIVER'S SEAT - BLACK MORDURA	0	0
1971F7	SEAT - PASSENGER'S	NATIONAL-AIR, WIDE WIDTH/HIGH BACK, 3 CHAMBER AIR LUMBAR	60	16
MAQA1X	SEAT COVERING - PASSENGER'S	PASSENGER'S SEAT - BLACK MORDURA	0	0
0HAB1X	SEAT - DUST COVER(S)	SEAT, DUST COVER FOR DRIVER'S AND RIDER'S SEATS	3	0
3PXC1X	SEAT ARM REST(S)	INBOARD MOUNTED ARM REST, DRIVER'S & RIDER'S SEAT	5	3
S 592092	SEAT BELT(S)	LAP & SHOULDER (BOTH SEATS) CAB MOUNTED SHOULDER BELT ADJUSTMENT	0	0
S D8XC1X	SEAT BELT WARNING INDICATOR	SEAT BELT REMINDER IN INSTRUMENT, WITH AUDIO	0	0

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				WEIGHT (LB)	
CAB INTERIOR (S THRU Z)		DESCRIPTION		FRONT	REAR
S	2QAA1X	STARTER SWITCH	KEY TYPE	0	0
	161021	STEERING WHEEL	2 SPOKE LEATHER 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	148AA3	WINDSHIELD WIPERS	2 SPEED ELECTRIC MOTOR W/INTERMITTENT FEATURE	0	0

				WEIGHT (LB)	
CAB - SLEEPER BOX		DESCRIPTION		FRONT	REAR
S	4ZX21X	SLPR. BOX - REFRIGERATOR PROV W/O SLEEPER BOX REFRIGERATOR		0	0

				WEIGHT (LB)	
CAB EXTERIOR		DESCRIPTION		FRONT	REAR
S	88AA1X	EMBLEMS OPTION	W/O MISC ORNAMENT CHANGE OPTION	0	0
S	MCY02Y	HOOD LATCH TYPE & FINISH	STRAP TYPE HOOD LATCH WITH BLACK FINISH	0	0
S	MCG0BG	EXTERIOR TRIM FINISH AND PACKAGES	PINNACLE BLACK AIR INTAKE	0	0
S	400AG0	GRILLE	HERITAGE DESIGN CHROME GRILLE W/ BLACK BACKGROUND	0	0
S	MCD03D	PASSENGER SIDE VISIBILITY OPTIONS	AUXILIARY WINDOW IN RH DOOR	3	0
S	5870G7	GRAB HANDLES	PREMIUM BLACK EXTERIOR CAB GRAB HANDLE, BLACK GRAB HANDLE RH INTERIOR WINDSHIELD POST	0	0
	154AA3	HORN - AIR	(2) MACK RECTANGULAR SINGLE TRUMPET (ONE EACH SIDE OF CAB ROOF)	7	0
S	LXXD1X	HORN - ELECTRICAL	DUAL TONE	5	0
	152AC5	MIRRORS - EXTERIOR	BULLDOG STYLIZED MIRRORS - LH & RH HEATED & MOTORIZED AND ILLUMINATED W/INTEGRAL CONVEX MIRROR	7	0
	157037	SUN VISOR - EXTERIOR	SUN VISOR, EXTERIOR, STAINLESS STEEL (UNPAINTED)	9	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
S	MCK03K	REAR CHASSIS AERODYNAMIC PACKAGE	WITHOUT REAR AERODYNAMIC FAIRING	0	0

				WEIGHT (LB)	
WHEELS & TIRES		DESCRIPTION		FRONT	REAR
	900AE5	TIRES BRAND/TYPE - FRONT	11R24.5 H BRIDGESTONE R250ED (14320 lbs) (Total for QTY = 2)	252	0
	5312R1	WHEELS - FRONT	24.5x8.25 ACCURIDE ACCU-LITE 42362x POLISHED ALUMINUM, 6.59" OFFSET, 10 HAND HOLE (Total for QTY = 2)	111	0
	901AK1	TIRES BRAND/TYPE - REAR	11R24.5 H BRIDGESTONE M799 (26440 lbs) (DRIVE ONLY) (Total for QTY = 8)	0	1,112
	346306	WHEELS - REAR	24.5x8.25 ACCURIDE ACCU-LITE 42362x POLISHED ALUMINUM, 6.59" OFFSET, 10 HAND HOLE (Total for QTY = 8)	0	441
S	15XABX	VALVE STEMS & CAPS	STANDARD VALVE STEMS AND CAPS	0	0
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

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				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	SHUTDOWN-ENG.OIL PRESSURE	OIL PRESSURE, ENGINE SHUTDOWN	0	0
	WIXAAX	SHUTDOWN-ENG.COOLANT LVL.	COOLANT LEVEL ENGINE SHUTDOWN	0	0
S	WMXA1X	SHUTDOWN-ENG.COOLANT TEMP	COOLANT TEMP, ENGINE SHUTDOWN	0	0
S	K5XA2X	ENG /OIL TEMP SHUTDOWN	ENGINE PROTECTION (SHUTDOWN)	0	0
S	K7XY1X	LOW IDLE ENGINE RPM	IDLE CONTROL, 600 RPM	0	0
S	X0AB0X	IDLE RPM UP W/LOW VOLTAGE	INCREASE 10 MINUTE MAXIMUM TIME	0	0
S	M3CA1X	IDLE S/D ABS TAMPER CHECK	IDLE SHUTDOWN ABS TAMPER CHECK, ENABLED	0	0
S	B1AZ1X	IDLE S/D WARNING TIME	WITHOUT 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	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	D2AAFX	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	EHT, MAX ROAD SPEED	ELECTRONIC HAND THROTTLE, MAX ROAD SPEED, 16 KM/H (10 MPH)	0	0
	B6ACEX	EHT, MAX ENG SPEED	ELECTRONIC HAND THROTTLE, MAX ENGINE SPEED, 2100 RPM	0	0
S	B4ADAX	EHT, MIN ENG SPEED	ELECTRONIC HAND THROTTLE, MIN ENGINE SPEED, 700 RPM	0	0

				WEIGHT (LB)	
TRANSMISSION ELECTRONICS		DESCRIPTION		FRONT	REAR
	M08038	ECONO ROLL	ECONO ROLL DISABLE mDRIVE (REQUIRED FOR ALL OTHER TRANSMISSIONS)	0	0
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 FUELSENSE 2.0 PROGRAMMING	0	0

				WEIGHT (LB)	
VEHICLE ELECTRONICS		DESCRIPTION		FRONT	REAR
	JCXFPX	ROAD SPEED LIMIT (RSL)	121 KM/H ROAD SPEED LIMITER (75MPH)	0	0
	Y3CC8X	PEDAL SPEED LIMITER	108 KM/H PEDAL ROAD SPEED LIMITER (67MPH)	0	0
S	JDXA1X	CRUISE CONTROL	CRUISE CONTROL	0	0
	JFXPCX	CRUISE CONTROL, MAX SPEED	MAX CRUISE, 121 KPH (75 MPH)	0	0
	E3AADX	CRUISE CONTROL MIN SPEED	MIN CRUISE, 40 KPH (25 MPH)	0	0
S	E5AACX	ENG BRAKE ENGAGE IN CRUISE	ENG BRK ENGAGE IN CRUISE, 3 MPH, ABOVE SET SPEED	0	0
S	X2BB1X	ROAD SPEED LIMIT CONTROL TYPE	RSL CONTROL TYPE NORMAL	0	0
	L2CC1X	PDLO ENGAGED VLS	POWER DIVIDER LOCK OUT (PDLO) ROAD SPEED LIMIT 40KM/H (25MPH)	0	0
	Q6FAHX	DIFF LOCK SPEED LIMIT	DIFFERENTIAL LOCK ROAD SPEED LIMIT 24KM/H (15MPH)	0	0
	W5BJ2X	MAXIMUM ENG SPEED AT 0 MPH	1950 MAXIMUM ENGINE SPEED AT 0 MPH	0	0

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				WEIGHT (LB)	
VEHICLE ELECTRONICS		DESCRIPTION		FRONT	REAR
S	A4BAAX	SPEED SENSOR TAMPERING DETECTION	DETECTION OF SPEED SENSOR TAMPERING, ENABLE	0	0
S	8RXAEX	PWR.LIMIT LVL.-MPH SENSOR	ENG TORQUE LIMITED TO 50%, IF SPEED SENSOR TAMPER DETECTED	0	0
S	0PAZ1X	DRIVER PERFORMANCE & BONUS PARAMETERS	WITHOUT DRIVER PERFORMANCE PARAMETERS	0	0
S	G5AAHX	DATAMAX ENGINE OVERSPEED-COMPANY	ENGINE OVERSPEED, ALL CONDITIONS, TIME LOG IF ABOVE 2200 RPM	0	0
S	G2AAGX	DATAMAX ENGINE OVERSPEED-FUEL	ENGINE OVERSPEED, FUELED, TIME LOG IF ABOVE 2100 RPM	0	0
S	G4AAUX	DATAMAX VEHICLE OVERSPEED-ALL	VEHICLE OVERSPEED,ALL COND, TIME LOG IF ABOVE 75MPH (121KMH)	0	0
S	G3AAPX	DATAMAX VEHICLE OVERSPEED-FUEL	VEHICLE OVERSPEED, FUELED, TIME LOG IF ABOVE 70MPH (113KMH)	0	0
S	G1AABX	DATAMAX IDLE LOG DELAY	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)	
PAINT		DESCRIPTION		FRONT	REAR
S	950AC0	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
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	MPA998	ROOF FAIRING COLOR	WITHOUT ROOF FAIRING	0	0
S	95103K	CHASSIS RUNNING GEAR	MACK BLACK (60 GLOSS); 250-12370	0	0
S	958028	BUMPER	W/O OPTIONAL BUMPER PAINT	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

				WEIGHT (LB)	
CALCULATED CODES - KAX		DESCRIPTION		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

				WEIGHT (LB)	
BASE WARRANTY & PURCHASED COVERAGES		DESCRIPTION		FRONT	REAR
S	898002	VEHICLE WARRANTY TYPE	NORMAL DUTY WARRANTY CLASSIFICATION	0	0
S	M50020	BASIC CHASSIS COVERAGE	NORMAL DUTY STANDARD BASE COVERAGE 12 MONTHS/100,000 MILES (160,934 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

PRICELIST DATE
20250818

QUOTATION
NEXT2025000527C614

DATE
11/17/2025

PAGE
9 of 10

TECHNICAL SPECIFICATION (cont.)



BASE WARRANTY & PURCHASED COVERAGES			DESCRIPTION	WEIGHT (LB)	
				FRONT	REAR
	M54094	TRANSMISSION WARRANTY	36/350K MI: EATON TRANSMISSION STANDARD NORMAL AND HEAVY DUTY COVERAGE	0	0
S	M55055	CARRIER & AXLE HOUSING WARRANTY	STANDARD VENDOR NORMAL / HEAVY DUTY COVERAGE 36 MONTHS/350,000 (563,00 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

CONNECTED SERVICES			DESCRIPTION	WEIGHT (LB)	
				FRONT	REAR
S	S03011	MACK INTEGRATED UPTIME	MACK INTEGRATED UPTIME - 24 MONTHS	0	0
	S04011	MACK CONNECT LOCATION & REPORTING	MACK CONNECT LOCATION & REPORTING - 24 MONTHS	0	0
S	S05010	FLEET INTEGRATION	WITHOUT FLEET INTEGRATION	0	0
S	S06400	PARTNERED SERVICES	NO PARTNERED SERVICES PROVIDED	0	0

FRONT / REAR AXLE WEIGHTS (LB)	9624	9313
TOTAL WEIGHT (LB)	18936	

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STANDARD EQUIPMENT

MACKSPEC



PI64T

**BIGGER
THAN IRON**

PI64T



STANDARD POWERTRAIN SPECIFICATIONS

ENGINE: MACK MP8-415C

Peak Horsepower - 415 HP at 1400-1700 RPM
Horsepower - 295 HP at 2000 Gov. RPM
Max. Torque - 1660 lb. ft. at 1050-1300 RPM
V-MAC IV - Total Vehicle Electronics
Air Compressor - Meritor/Wabco 318 (18.7 CFM)
Air Cleaner - 11" Single Element
Alternator - Delco 12V 130A (24SI)
Batteries - (3) Mack 12V 650/1950 CCA Threaded Stud Type
Coolant Protection: -34 degrees F (-37 C)
Mack Coolant Conditioner
ClearTech One DPF/SCR Emission System
Mack PowerLeash Engine Brake
Silicone Engine Hoses and Tubing
Poly-V Fan Belt with Automatic Tensioner
Fan Drive: Electronically Modulated Multi-Speed Viscous
Flywheel Housing - Aluminum (Lightweight)
Mack Fuel/Water Separator with Manual Drain Valve
Radiator - Aluminum Core
Starter - Delco 12V 39MT-MTX
Electronic Starter Interlock

TRANSMISSION: MACK mDRIVE TMD12AFO

12-Speed, Ratios: 11.73 Low - 0.78 High
Overdrive
Clutch - Single Plate 17" Organic Material
Transmission Bell Housing - Aluminum
Transmission Oil Cooler - mDRIVE Gear Box Mounted,
Water to Oil Cooler
Grade Gripper
Mackcellerator
Main Driveline - Meritor RPL25 Series with Permalube U-Joints

REAR AXLE: MERITOR MT-40-14X

40,000 Pound Capacity
Suspension - Maxlite 40EZ Air Suspension
40,000 Pound Rating
Tires - 295/75R22.5 (Low Profile)
Carrier - Malleable Housing
Wheels - Aluminum Disc, 22.5" x 8.25",
10-Hole, Hub Piloted
Hub Material - Aluminum Preset w/ Integrated
Spindle Nut
Brakes - Bendix 16.5" x 7"
Brake Drums - Cast Outboard Mounted
Premium Rear Wheel Seals
Slack Adjusters - Automatic
Spring Brake Chambers - 30/30 Double
Diaphragm Type, Mechanical
Spring Release
Shock Absorbers - (4) Mounted on Forward
and Rear Axles Each Side

FRONT AXLE: MACK FXL12

12,000 Pound Capacity
Suspension - Mack Taperleaf Springs,
12,000 Pound Rating, (2 Springs)
Tires - 295/75R22.5 (Low Profile)
Wheels - Aluminum Disc, 22.5" x 8.25",
10-Hole, Hub Piloted
Hub Material - Aluminum
Integrated Front Wheel Seals
Brakes - Bendix 15" x 5"
Brake Drums - Cast Outboard Mounted
Shock Absorbers - Double Acting Type
Slack Adjusters - Automatic
Steering - TAS65 TRW Integral Power Steering

STANDARD CAB INTERIOR/EXTERIOR SPECIFICATIONS

CAB: CONVENTIONAL

Air Conditioning with Integral Heater
Cab Mounting - 4 Point, Air Bags
and Shocks at Rear
12 Volt and USB Outlets
Coat Hook
Co-Pilot Driver Display with
GuardDog Maintenance, Stalk Controls
Cup Holders
Dome Lamps - 2RH / 2LH
Galvanized Steel Visibility Doors
Door Trim - Padded Armrests and Map Pockets
Floor Mats - Polyurethane
Gauges - Air Pressure (Primary and Secondary)
Engine Coolant Temperature, Engine Oil
Pressure, Speedometer, Tachometer,
Fuel Level, DEF Level
Optional Gauges - Exhaust Pyrometer, Boost
Pressure, Transmission Oil Temperature,
Engine Oil Temperature, Air Application
Grab Handles, Exterior - RH & LH Behind Door
Hood - DCPD Material, Insulated
Horn - Electric, Single Tone
Identification and Clearance Lights (5)
Instrument Panel - Gunmetal Trim
Interior Trim: Standard - Steel Gray

Keys - (2) Keyed at Random
Key Type Starter Switch
Low Pressure Indicator Light and Buzzer
Exterior Mirrors - RH & LH Aerodynamic
Overhead Console with Storage Compartments
Parking Brake "On" Indicator Light
AM/FM Premium Stereo, CD Player, MP3
Weather Band, Bluetooth
CB Connections - 5 way Binding Posts
Driver Seat - High Back, 1 Chamber Lumbar,
Air Suspension
Rider Seat - High Back, Non-Suspension
Seat Belts - Lap and Shoulder
Steering Column - Tilt and Telescopic
Steering Wheel - Urethane Foam Grip,
Gunmetal Spokes
Rear Storage Pouch
Right Hand Door Peep Window
Sunvisors - Interior, RH & LH
Window Controls - Power
Windshield - Tinted, 2 Piece
Cab Glass - Tinted
Windshield Wipers - 2 Speed Electric Motor
with Intermittent Feature
Paint Color - Mack White (Cab, Hood, and
Fenders), Mack Black (Chassis and
Running Gear)

ADDITIONAL STANDARD SPECIFICATIONS

AIR/BRAKE

Dual Air Brake System
Air Dryer - 1200P w/ Coalescing Filter
Air Reservoirs - Steel
Electronic Stability Control
Parking Brake Control - 2 Valve System, Trailer
Supply and Tractor-Trailer Park
Electric Plug Holder (Includes Glad Hand Storage)
Hand Control Valve for Trailer Brakes
Hose Tender - Pogo Stick, Chassis Mounted
Manual Drain Valve - Lanyard Control on Supply
Tank
Trailer Connection Package - Semi
Trailer Air Hoses & Electric Cord - 12' Straight Type
Trailer Receptacle - (7) Wire Mounted on Back of Cab

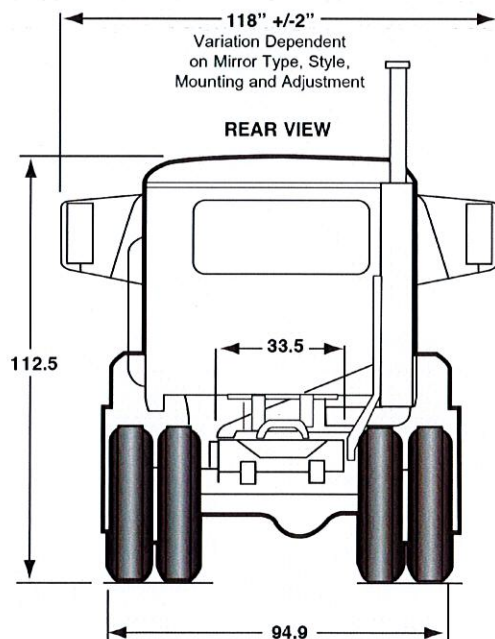
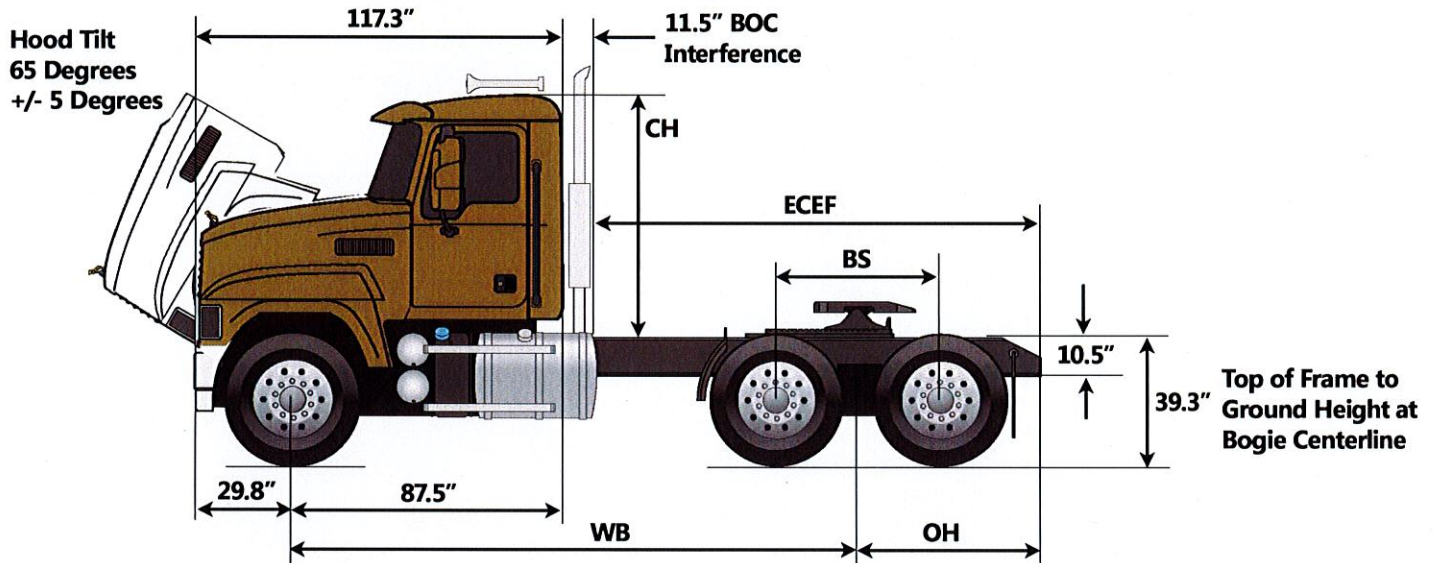
ELECTRICAL

12 Volt Electrical System
Battery Box - Steel with Molded Plastic Cover
Courtesy Light Switch - Headlamp and Clearance
GuardDog connect Services
Daytime Running Lights
Electric Circuit Protection Package
Waterproof Electrical Connections
Headlights - Flush Mounted LED Lights
Rear Lighting - (2) Combination Stop, Tail,
Directional, and Back-Up Lights
Triples Trailer Electrical Package
Solid State Turn Signal Flasher

PI64T



STANDARD CHASSIS DIMENSIONS



FRAME EQUIPMENT/FUEL TANKS

- Frame Rail w/out Liner – 10.47" x 3.54" x .24" Steel
- Section Modulus – 11.6 in³
- RBM (per rail) – 1,390,000 lb. in.
- Front Bumper – Stainless Steel Clad Aluminum Flush Mounted
- Bumper to Back of Cab (BBC) – 117"
- Crossmembers – Steel/Rear Crossmembers – Boxed and Tapered
- Fifth Wheel – Air Slide LH Release, Bolt to Outboard Mtg. Angles
- Tapered and Flanged Rail Ends – 28°
- Front Tow Device – (2) Clevis
- Fuel Tanks – 93 Gallon LH & RH, 26" dia. Aluminum
- Fuel Lines – Dual Draw & Return, Material – Nylon Tube
- Diesel Exhaust Fluid (DEF) Tank - 18.4 Gallon, 26" Diameter Frame Mounted on Left Side with Painted Cover

STANDARD WHEELBASE/LOAD PLATFORM

For standard wheelbase and load platform information refer to your current version of MSS

PI64T



AVAILABLE DRIVELINE COMPONENTS

MP8 ENGINES	
MODEL	HORSEPOWER / TORQUE
MP8-415C	415 HP [309kW] @ 1400-1700 RPM 1660 lb. ft. [2251 Nm] @ 1050-1300 RPM
MP8-445C	445 HP [332kW] @ 1300-1800 RPM 1815 lb. ft. [2460 nM] @ 1150-1300 RPM
MP8-505C	505 HP [377 kW] @ 1500-1700 RPM 1860 lb. ft. [2508nM] @ 1100-1400 RPM
MP8-415E	415 HP [310kW] @1400-1700 RPM 1660 lb. ft. [2251 nM] @ 1000-1300 RPM
MP8-445E	455 HP [339kW] @ 1300-1700 RPM 1815 lb. ft. [2460 nM] @ 1100-1300 RPM
MP8-505E	505 HP [377kW] @ 1400-1700 RPM 1860 lb. ft. [2508nM] @ 1100-1400 RPM
MP8-505A	505 HP [377 kW] @ 1500-1700 RPM 1860 lb. ft. [2508nM] @ 1100-1400 RPM
MP8-415SE - TC	415 HP [310 kW] @ 1300-1700 RPM 1760 lb. ft. [2386] @ 900-1300 RPM
MP8-445SE - TC	445 HP [332 Kw] @1400-1700 RPM 1860 lb. ft. [2432 kW] @ 900-1300 RPM

MACK TRANSMISSIONS			
MODEL	SPEEDS	RATIOS	LOW/HIGH
T309	9	11.40 / 0.71	
T310	10	13.81 / 0.73	
T310M	10	17.35 / 0.73	
T313	13	13.44 / 0.74	
T31321	13	13.44 / 0.71	
T313LR	13	16.42 / 0.71	
T313LR21	13	16.42 / 0.71	
T318	18	13.44 / 0.71	
T318LR	18	16.42 / 0.71	
T31821	18	13.44 / 0.71	
T318LR21	18	16.42 / 0.71	

MACK <i>m</i> DRIVE TRANSMISSIONS			
MODEL	SPEEDS	F. RATIOS	R. RATIOS
TmD12AFD	12	14.94 / 1.00	17.49 / 13.73
TmD12AFO	12	11.73 / 0.785	13.73 / 10.78
TmD12AFD-HD	12	14.94 / 1.00	17.49 / 13.73
TmD12AFO-HD	12	11.73 / 0.785	13.73 / 10.78
TmD13AFD-HD	13	19.34 / 1.00	37.49 / 8.62
TmD13AFO-HD	13	17.54 / 0.785	20.53 / 10.78
TmD14AFO-HD	14	32.04 / 0.785	37.49 / 8.62

EATON FULLER TRANSMISSIONS			
MODEL	SPEEDS	RATIOS	LOW/HIGH
FA14810B	10	15.42 / 1.00	
FA15810B	10	15.42 / 1.00	
FAM15810B	10	15.42 / 1.00	
FAO14810C	10	12.80 / 0.73	
FAO15810C	10	12.80 / 0.73	
FAO16810C	10	12.80 / 0.73	
FAOM15810C	10	12.80 / 0.73	
FAOM16810C	10	12.80 / 0.73	
FR15210B	10	14.80 / 1.00	
FRO14210C	10	12.69 / 0.74	
FRO15210C	10	12.69 / 0.74	
FRO16210C	10	12.69 / 0.74	
FRO17210C	10	12.94 / 0.74	
FRO18210C	10	12.94 / 0.74	
FRW15210B	10	16.21 / 1.00	
RTO14908LL	10	14.56 / 0.74	
RTO16908LL	10	14.56 / 0.74	
RTLO16913A	13	12.31 / 0.73	
RTLO18913A	13	12.31 / 0.73	
RTO16915	15	13.31 / 0.79	
RTLO16918B	18	14.40 / 0.73	
RTLO18918B	18	14.40 / 0.73	

ALLISON TRANSMISSIONS			
MODEL	SPEEDS	RATIOS	LOW/HIGH
3000-RDS	5	3.49 / 0.75	
3000-RDS	6	3.49 / 0.65	
4000-RDS	6	3.51 / 0.64	
4500 RDS	5	4.70 / .076	
4500 RDS	6	4.70 / .067	

AVAILABLE DRIVELINE COMPONENTS CONTINUED

FRONT AXLES		
MODEL	MAKE	CAPACITY
FXL12	MACK	12,000 lb. [5443 kg.]
E1252IR	DANA SPICER	
MFS131	MERITOR	
STEERTEK	HENDRICKSON	
FXL12.5	MACK	12,500 lb. [5681 kg.]
E1252IR	DANA SPICER	
MFS131	MERITOR	
STEERTEK	HENDRICKSON	
FXL13.2	MACK	13,200 lb. [6000 kg.]
E1322IL	DANA SPICER	
MFS131	MERITOR	
STEERTEK	HENDRICKSON	
FXL14.6	MACK	14,600 lb. [6486 kg.]
MFS141	MERITOR	
STEERTEK	HENDRICKSON	

REAR AXLES - TANDEM		
MODEL	MAKE	CAPACITY
S38R	MACK	38,000 lb. [17,237 kg.]
S40	MACK	40,000 lb. [18,100 kg.]
S402R	MACK	
MT-40-14X4C	MERITOR	
MT-40-14X4D	MERITOR	
RT40-145A	MERITOR	
DS405	DANA SPICER	
D40-155	DANA SPICER	
D40-156	DANA SPICER	
D40-155H	DANA SPICER	
D40-156H	DANA SPICER	
S440	MACK	44,000 lb. [19,958 kg.]
S460	MACK	46,000 lb. [20,886 kg.]
S462	MACK	
S462R	MACK	
RT46-160	MERITOR	
RT46-164EH	MERITOR	
D46-170	DANA SPICER	

The information in this document was accurate as of the date of the publication. Illustrations may not be representative of current product. Mack Trucks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice at any time.

November 16, 2017

SALES ENGINEERING
MackTrucks.com

POWERTRAIN SPECIFICATION

Product Information

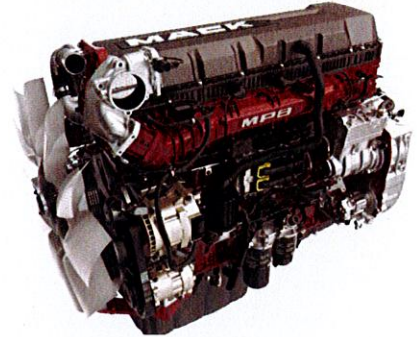


1001847 MP8-505C+, MAXICRUISE PLUS DIESEL ENGINE – US '21

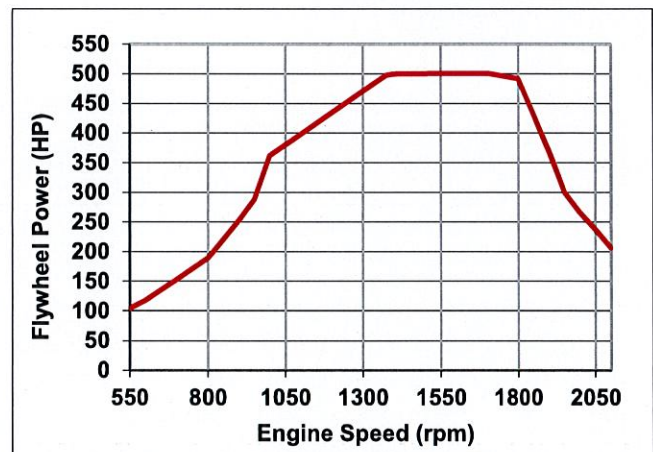
Updated: August 5, 2021

Performance summary

Peak HP [kW]	505 [377] @ 1400-1700 RPM
HP [kW] at governed RPM	206 [154] @ 2100 RPM
Peak torque lb. ft. [Nm],	1900 [2576] @ 1000-1375 RPM
Clutch engagement lb. ft. [Nm]	860 [1165] @ 800 RPM
Operating range	550 - 2100 RPM



Torque and Power Curves:



Gearing Recommendations / Recommended Cruise RPM

Proper gearing is essential to achieve optimum vehicle performance and economy. Vehicle specifications including engine, transmission, axle ratio, and tires should be selected to meet minimum startability and gradeability recommendations while balancing performance and economy with customer requirements. Dealers should refer to the **PAWS Performance Predictor** to gauge compliance to vehicle-specific minimum recommendations.

Recommended Cruise RPM: 1100 – 1300

Product Information



1001847 MP8-505C+, MAXICRUISE PLUS DIESEL ENGINE – US '21

Updated: August 5, 2021

Features and benefits

18:1 CR wave piston, 220 bar peak cylinder pressure

Our patented Wave piston delivers improved combustion and lower friction, resulting in cleaner emissions and better fuel economy. Six steel waves forged into the piston crown optimize fuel injection for increased combustion efficiency.

Electronic common rail fuel injection

The simplicity of Mack's electronic common fuel rail system eliminates external high-pressure lines as can be common with "one pump" common rail systems. This direct injection system delivers ultra-precise control over fuel injection pressure, timing and volume. The result is more power and efficiency, with less engine noise.

Intake throttle

MP Series engines are equipped with intake throttles that improve heat management, helping to increase the exhaust gas temperature at idle and low load, increasing the efficiency of the exhaust aftertreatment.

Dual-butterfly EGR valve

The MP8 Dual-butterfly EGR Valve reduces fuel consumption through higher EGR flow rates compared to other systems that incorporate single-poppet style EGR valves.

CLEARTECH™ ONE aftertreatment

Mack's re-engineered exhaust aftertreatment system is designed for MP series engines and features a sophisticated new design that delivers near-zero emissions and low maintenance in a lighter, more compact unit

Product Information



1001847 MP8-505C+, MAXICRUISE PLUS DIESEL ENGINE – US '21

Updated: August 5, 2021

Base engine specifications: All engine specifications are listed for the base engine model and do not include specifications found in optional engine equipment.

Number of cylinders & firing order	6, In-Line: 1 – 5 – 3 – 6 – 2 – 4
Bore and stroke, inches [mm]	5.16 X 6.22 [131 X 158]
Displacement, cubic inches [L]	780 [13]
Compression ratio	18:1
Torque rise	32.5%
Idle speeds:	
Low	Adjustable, 650 RPM
High	2100 RPM
Engine brake retarding power	475 HP [355 kW] @ 2250 RPM
Weight, dry [approximate] lbs. [kg]	2711 [1230]
Fuel filter	Spin-on, disposable
Fuel system	High pressure F2 common rail
Fuel supply pump	Eccentric-style pump (no lifters or tappets)
Lubrication system:	
Type	Full pressure, wet sump
Oil filters	2 Spin-on full flow, disposable
Oil cooler	Stainless steel plate
Total oil capacity, includes filters	37 quarts [35 liters]
Drain plug	Magnetic
Turbocharger	Variable geometry turbocharger with journal bearings



SED

PRODUCT INFORMATION

Sales Engineering

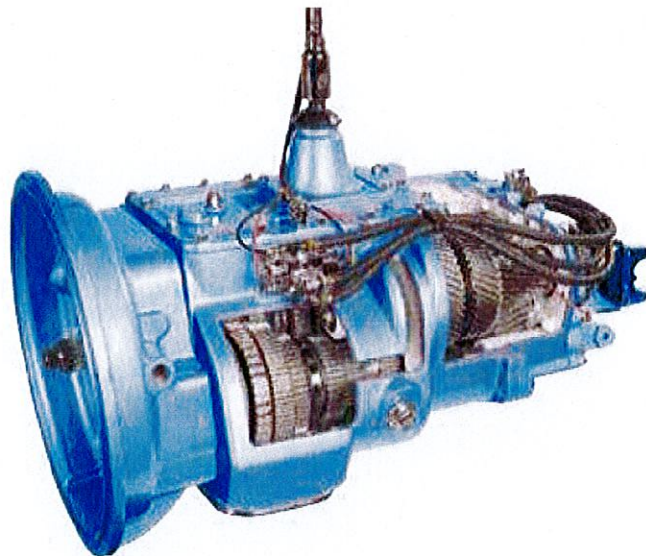
Mack Trucks, Inc.
Allentown, PA 18103
United States

Phone: 800 868 6225
Fax: 610 351 8791

MackTrucks.com

The ultimate for performance, versatility, and reliability with variable loads and speeds in applications up to 2250 lbs.ft.

PID Code/Condition: 136-2190
Description: Fuller RTLO-20918B 18-Speed Transmission
Models: ALL
Date: August 30, 2016



- Unbeatable versatility with 19.7 to 1 overall reduction and 14.40 low gear.
- Economical performance with 0.73 and 0.86 overdrives for efficient cruise RPMs.
- Smoother, faster, easier shifting due to patented low-inertia technology.
- Exclusive output seal design improves seal life and eliminates potential for seal damage during yoke removal.
- Faster, smoother range and splitter shifts and improved cold weather performance due to design improvements.
- On selected models an optimized lubrication system provides increased cooling and lubrication for more difficult, harder working applications.
- Quieter operation and increased durability due to helical gears in auxiliary section.
- Improved lubrication with standard internal oil pump and oil lines for directed lubrication.
- Roadranger warranties are available for a wide variety of applications. To find the coverage that applies to your specific vocation, please see the Warranty Guide (TCWY0900), at www.eaton.com/roadranger.

The information in this document was accurate as of the date of release and pertains to the current version of Mack's Sales Tool. Mack Trucks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice.



SED

PRODUCT INFORMATION

MODEL	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
RTLO-16918B	1650 lbs.ft. [2237 Nm]	716 lbs. [324.77 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-18918B	1850 lbs.ft. [2508 Nm]	716 lbs. [324.77 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-20918B	2050 lbs.ft. [2779 Nm]	716 lbs. [324.77 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-22918B	2250 lbs.ft. [3050 Nm]	716 lbs. [324.77 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse

* Less clutch housing, lubricant and end yoke. ** Lengths listed are from face of clutch housing to front bottoming surface of companion flange or yoke.

Specifications:

Clutch Housing Size:

- SAE #1 and #2.
- Cast iron and aluminum available.

PTO Openings:

- Two SAE standard openings.
- Right side, regular duty, 6-bolt, short length.
- Bottom, heavy duty, 8-bolt.

PTO Drive Gears:

- Right side, a 45-tooth, 6/8 pitch gear.
- Left side, a 47-tooth, 6/8 pitch gear. Both gears turn at .79 engine speed.

Oil Capacity:

- Approx. 28 pints [13.3 liters].
- Integral oil pump standard.
- Oil to water heat exchanger standard on 18918B, 20918B and 22918B (Requires 2 pints [.95 liters] additional lubricant. Adds 10 lbs. [4.53 kg] to weight).

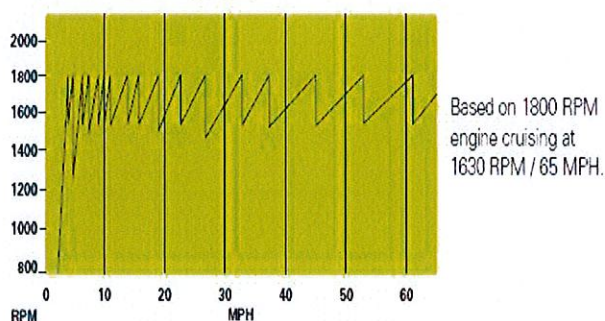
Low Inertia Concept:

This innovative, patented design is identified in the Fuller nomenclature by the letter 'L' (as in RTLO-18918B).

These transmissions feature a simple mainshaft which is not splined to the auxiliary drive gear. This unique design eliminates the added mass, drag and inertia of the entire auxiliary section.

During upshifts, where both the lever and splitter button are moved together, the low-inertia mainshaft is quickly brought to synchronous resulting in fast, easy shifts.

Performance Chart:



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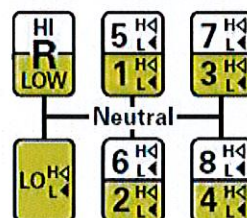
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PRODUCT INFORMATION

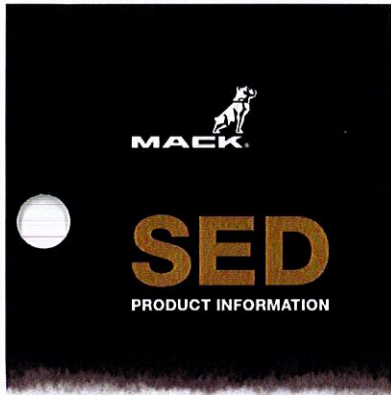
Ratios and Steps:

GEAR	RATIO	% STEP
8th H	0.73	17
8th L	0.86	17
7th H	1.00	17
7th L	1.17	18
6th H	1.38	17
6th L	1.62	21
5th H	1.95	17
5th L	2.29	
Range Shift		19
4th H	2.73	17
4th L	3.20	17
3rd H	3.74	17
3rd L	4.38	18
2nd H	5.16	17
2nd L	6.05	21
1st H	7.30	17
1st L	8.56	44
Low H	12.29	17
Low L	14.40	
Hi Rev H	3.43	
Hi Rev L	4.03	
Low Rev H	12.85	
Low Rev L	15.06	
Overall	19.7 to 1	

Shift Pattern:



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Roadranger®

More time on the road™

Bulletin: TMIB-0127

Date: February 8, 2011

Bulletin Type: Service

Topic: PTO Applications

Issue/Background: This bulletin is to clarify the maximum allowable PTO torque on Eaton HD transmissions. Previously Eaton published a 500 lb.-ft limit for the PTO drive gear on the countershaft. Following the PTO manufactures differentiation between continuous and intermittent (less than 5 out of 15 minutes) operation, it was assumed that this limit would be considered only for intermittent operation. Some PTO dealers have advertised maximum limits to be 500 lb-ft for continuous and 650 lb-ft for intermittent operation. After careful review of design limits and test results, the following requirements have been established for all heavy duty transmission PTO applications.

In the future, Eaton will no longer differentiate between intermittent and continuous operation, but publish all PTO torque limitations based on continuous operation.

These limits are maximum allowable torque ratings that are not to be exceeded under any operating condition, continuous or intermittent.

All **Lightning, FR/FRO and UltraShift Plus** transmissions are rated at **500 lb.-ft**, while all

RT/RTO/RTLO transmissions are rated at **350 lb.-ft**. These limits are measured at the countershaft of the transmission.

RT/RTO/RTLO, AutoShift, and UltraShift transmissions may be **up-graded** to allow for **500 lb-ft** by using a roller type input bearing, **Eaton P/N 4301417**. Contact truck manufacturer for OEM specific order codes.

All Mack chassis that are ordered with an Eaton RT/RTO/RTLO, AutoShift, or UltraShift are automatically upgraded to the Eaton roller type input bearing. There are no special PIDs or symbols for this upgraded bearing design.

(2016-08-043K Russ)

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Product Information



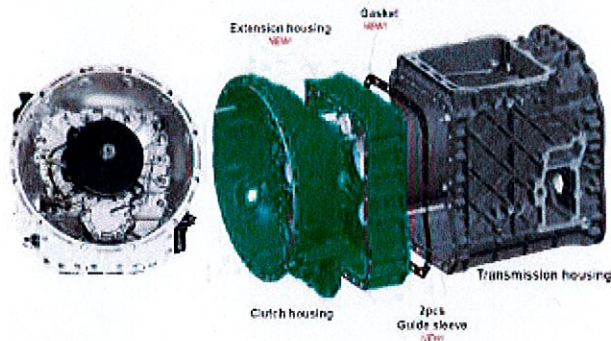
1361511 TMDMACK 14AFO-HD mDRIVE HD 14 SP, ULTRA-LOW CREEPER/ MULTI-SPEED REVERSE (OVERDRIVE) (136176)

Updated: September 1, 2017

Mack® mDRIVE™ HD F Series Transmission

The mDRIVE HD heavy-duty automated manual transmission comes standard on Mack® Granite® trucks to help tackle whatever challenges you face on the job. This 13-speed, two-pedal transmission offers up to 1,920 lb.-ft. of torque, horsepower ratings from 325 to 505 HP and is designed to integrate seamlessly with Mack MP7® and MP8® engines.

Because mDRIVE HD is in constant communication with your engine, it's continuously monitoring changes in grades, vehicle speed, acceleration, torque demand, weight and other factors, so there's no compromising on performance.



mDRIVE HD F Series offers the following features:

Grade Gripper

There's no awkward and dangerous roll-back when stopping on a grade. Grade Gripper keeps your position for up to three seconds after the brake pedal is released.

Rock Free

Don't let troublesome terrain bog you down. When your truck gets stuck, mDRIVE HD rocks the vehicle back and forth to break you free.

(Optional with Mack Fleet shifter package)

Power Launch

When rocking won't release your truck from sand and loose soil, mDRIVE HD responds with more power than you thought possible. It allows you to raise the engine RPM and torque prior to engaging drive mode to free your vehicle.

(Optional with Mack Fleet shifter package)

PTO Options

The mDRIVE HD is available with up to six different combinations of rear transmission-mounted PTO options and a selection of factory-installed piston and gear-driven hydraulic pump options.

PowerLeash™ Engine Brake

Get maximum performance from your engine brake. By setting your downhill speed, the engine, engine brake and transmission work together to allow a faster controlled descent speed in a higher gear without overspeeding the engine.

Enhanced Construction Shift

Heavy-duty construction jobs demand more aggressive shifting. Enhanced Construction Shift maximizes gradeability and improves starting and shifting on rough terrain.

(Optional with Mack Fleet shifter package)

Heavy Haul Shift

Meet Mack's most assertive shift strategy yet. Designed for the trucks that shoulder your largest loads, Heavy Haul Shift offers even more performance-oriented shift points and less skip shifting. Recommended for loads over 160,000 GCW.

(Requires Mack Premium shifter package)

COMPLETE INTEGRATION

As part of Mack's legendary integrated powertrain, mDRIVE HD works seamlessly with Mack engines and axles for improved efficiency, increased uptime and lower cost. Because when all the pieces perform together, everything else falls into place.

LIGHTER THAN THE COMPETITION

Even though mDRIVE HD is built strong, it won't weigh you down. It's hundreds of pounds less than competitors, so you can ditch the dead weight and increase your payload.

INCREASED PRODUCTIVITY

The mDRIVE HD is automated, so it's easier to work than traditional manual transmissions. Because drivers don't have to worry about shifting gears, they're more rested and ready to finish the job with increased focus and productivity.

ONE-STOP SERVICE

Because mDRIVE HD is a Mack transmission, it's serviced in Mack's industry-leading, coast-to-coast dealer network and supported by our comprehensive Uptime Services. Forget the additional time or hassle spent dealing with third-party repairs.

Product Information



1361511 TMDMACK 14AFO-HD mDRIVE HD 14 SP, ULTRA-LOW CREEPER/ MULTI-SPEED REVERSE (OVERDRIVE) (136176)

Updated: September 1, 2017

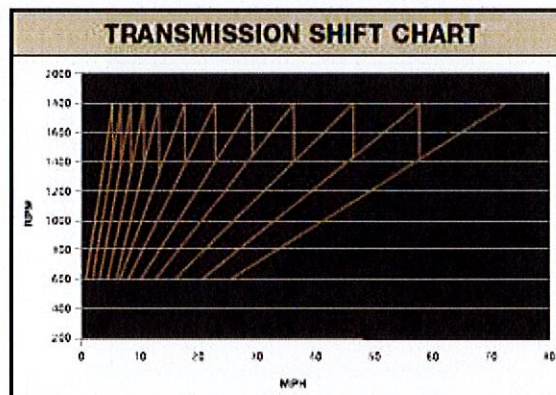
OVERDRIVE SHIFTER FEATURES		
FEATURES	FLEET	PREMIUM
AUTO NEUTRAL	STANDARD	STANDARD
GRADE GRIPPER	STANDARD	STANDARD
GEAR SELECTION ADJUSTMENT	OPTIONAL	STANDARD
POWERLEASH ENGINE BRAKE	STANDARD	STANDARD
ENHANCED CONSTRUCTION SHIFT **	OPTIONAL	STANDARD
EASY SHIFT **	OPTIONAL	OPTIONAL
HEAVY HAUL SHIFT **	OPTIONAL	STANDARD
GRUISE 'N BRAKE	OPTIONAL	STANDARD
LOW SPEED MODULATION CONTROL	STANDARD	STANDARD
MACKCELLERATOR	OPTIONAL	STANDARD
ROCK FREE	OPTIONAL	STANDARD
POWER LAUNCH	OPTIONAL	STANDARD

** These options are selectable under the M05- PID condition.

OVERDRIVE SPECIFICATIONS	
TYPE	14 SPEED AUTOMATIC MANUAL TRANSMISSION
LENGTH	40" [1016 MM]
WEIGHT (DRY)	887 LB [312 KG]
OIL CAPACITY	19.5 QUARTS [18 L]
TORQUE RATING	2360 LB. FT. [3200 N*m]
NUMBER OF SPEEDS - FORWARD	14
NUMBER OF SPEEDS - REVERSE	4
CASE, BELL HOUSING MATERIAL	ONE PIECE HEAT TREATED ALUMINUM
CASE, BELL HOUSING TYPE	SAE #1
TYPE OF GEARS	HELICAL
CONTROL	D PANEL DASH MOUNTED SHIFTER
SHIFTER INDICATORS	R-REVERSE / N-NEUTRAL / D-DRIVE / M-MANUAL
LUBRICATION	SPLASH & PRESSURE

For Information Concerning Power Take-Offs Consult Power Take-Off Sheets

OVERDRIVE GEAR RATIOS		
FORWARD GEAR	RATIO	% STEP
Creep(1)	32.04	
Creep(2)	19.38	
1st	11.73	
2nd	9.21	27
3rd	7.09	30
4th	5.57	27
5th	4.35	28
6th	3.41	28
7th	2.70	26
8th	2.12	27
9th	1.63	30
10th	1.28	27
11th	1.00	28
12th	0.78	27
REVERSE GEAR	RATIO	% STEP
R0	37.49	
R1	13.73	
R2	10.78	
R3	8.52	



Product Information



1361511 TMDMACK 14AFO-HD mDRIVE HD 14 SP, ULTRA-LOW CREEPER/ MULTI-SPEED REVERSE (OVERDRIVE) (136176)

Updated: September 1, 2017

Feature Description

No change from current options

Gear Selection Adjustment

The driver can manually select gears using the up / down buttons located on the Premium shifter. The Driver Display will indicate how many up / down gears are available by the means of up / down arrows.

Idle Governor Driving Mode

This feature is included in every software feature package and is useful in the lower gear range (1-6), for example when driving slowly in congested areas. The Idle Driving mode is engaged by the driver removing their foot from the accelerator and allowing the vehicle to idle along. The transmission automatically selects the gear which best suits the speed. When the Basic shifter is utilized, slightly pressing the accelerator or brake pedal will change engine speed to facilitate an upshift or downshift. Although the engine load may vary, the Idle Governor will adjust the torque to maintain idle speed and therefore achieve constant vehicle speed. The feature also works in Reverse and is quite helpful when backing up a trailer.

Gear Selection of Start Gear

The driver can in the "Manual mode" select start gear in the range from 1-3.

For Tractor models, in the "Drive mode" the transmission will select the start gear based on the load, the grade and engine size. Typically the start gear is 1 or 2 with a trailer connected and 4 when bob-tailing. However, the driver can adjust the selected gear by up to two gears above the calculated as long as it does not exceed "Highest available start gear". The highest available start gear is a customer programmable parameter in the range from 1-6 with a default value of 6. For Truck configurations the starting gear will be 1.

Performance Mode

A button on the Premium gear lever lets the driver select Performance operating mode.

- Economy, the transmission will select shift points and command engine parameters maximizing fuel economy.
- Performance mode selects shift points and engine parameters maximizing to be driven in high grades and other rough conditions. Improved ability to rock free.

There are three customer programmable settings for the Performance mode:

1. Performance mode available. When you press the button, the transmission goes to PERF mode, and stays there until you turn-off the truck, or press the button again. Recommended setting for off-road vehicles.
2. Performance mode available. Once enabled the mDrive monitors the engine utilization and automatically returns to Economy if the power demand for a specified time window drops to a level that can be handled by the Economy mode. In other words it minimizes the time in Performance mode, which improves Fuel Economy.
3. Performance mode disabled. Best for fuel economy.

Auto Neutral when Parking Brake applied

In situations where the mDrive is still in gear after the parking brake has been applied, the mDrive will go into Neutral after four minutes in order to protect the release bearing from excessive temperature and wear. If the driver presses the accelerator pedal, the transmission engages the gear was selected before.

Auto Neutral at Key-off if Gear engaged

In order avoid "torque lock-up" of the driveline when shutting off the engine with a gear engaged; mDrive will automatically go into Neutral during key-off.

Basic PTO functions

Possibility to engage PTO in vehicle speeds up to 6Mph (speed limit depends on the rear axle ratio)

Pre-defined splitter positions: SW parameter defines splitter to engage when use of transmission PTO.

Product Information



1361511 TMDMACK 14AFO-HD mDRIVE HD 14 SP, ULTRA-LOW CREEPER/ MULTI-SPEED REVERSE (OVERDRIVE) (136176)

Updated: September 1, 2017

"P" Additional Features "Rock Free"

In situations where wheel spin occurs and a vehicle becomes stuck, the mDrive transmission has the ability to rock the vehicle back and forth to maneuver out of the stuck condition. A combination of carefully pressing and releasing the accelerator, to ease the vehicle forward or backwards, will produce the rocking motion to elongate the wheel tracks which have caused the vehicle to become stuck.

Engage as follows:

- Engage differential locks
- Turn off traction control
- Select Performance mode of the mDrive
- Press the M button for Manual selection, and select 1st gear, or the 1st reverse gear
- Carefully press accelerator pedal up and down with a smooth pumping action



"P" Additional Features "Power Launch"

If the vehicle becomes "really stuck" in sand or very soft soil and are unable to get it moving again by trying to rock it free. That's where the Power Launch feature comes in. With the Performance software package, the mDrive has the ability to use full engine torque to get the vehicle moving once again.

Engage as follows:

- Engage differential locks
- Select Performance mode of the mDrive
- Press the M or D button for Manual/Drive, use 1st gear, or the 1st reverse gear
- Push and hold the minus (-) button on the gear selector
- Completely depress the accelerator – the engine will rise to 1300 rpm
- Release the minus (-) button and the clutch is engaged, launching the vehicle free



Grade Gripper is a safe, convenient way to hold a vehicle on-grade (road inclines and declines) without risk of roll-back or clutch burn-out.

Grade Gripper 'grips' both the tractor and the trailer brakes.

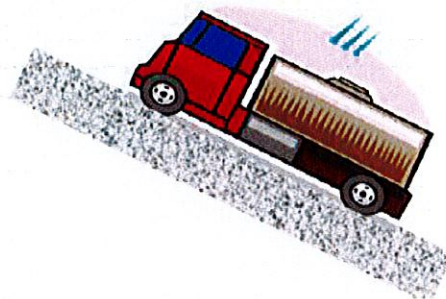
When the brake pedal is released, Grade Gripper maintains braking until the throttle pedal is applied, or until a 3 second timer expires.

Grade Gripper only applies on grades at 0 mph, with the service brakes applied.

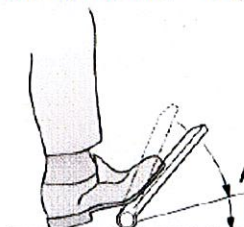
A dash switch can be used to disable Grade Gripper, whenever needed. If disabled, the switch lamp flashes and a Co-Pilot message



Grade Gripper Disabled



The **MackCellerator** is a 2-position throttle pedal. The first position (A) provides 100% throttle. If the driver presses further, the pedal passes a detent to full travel (B). The mDRIVE will then automatically downshift (assuming there is sufficient engine RPM range).



A A = 100% throttle
B B = Downshift

Think of MackCellerator as an easy way to engage passing gear (down-shift), without the driver needing to take his/her eyes off the road.

Product Information



1361511 TMDMACK 14AFO-HD mDRIVE HD 14 SP, ULTRA-LOW CREEPER/ MULTI-SPEED REVERSE (OVERDRIVE) (136176)

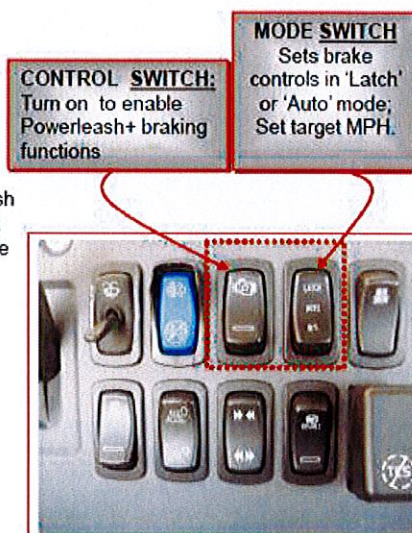
Updated: September 1, 2017

PowerLeash+ engine brake controls include the following features:

'Cruise'n Brake' automatically engages PowerLeash+ at 3 mph above the cruise control target set speed, then auto disengages it prior to resuming cruise (0.5 mph above). Note: 'Cruise'n Brake' only functions in Auto mode.

'Latch' mode automatically engages the engine brake whenever the throttle pedal is released and the PowerLeash+ control switch is in the 'ON' position.

'Auto' mode keeps the engine brake off unless a target downhill braking set speed is specified, using the 'SET-' button. PowerLeash+ will automatically and progressively (0-100%) attempt to maintain the set speed. The control switch must be in the ON position. Applying the service brakes will not automatically activate PowerLeash+.





Product Information

1952302

SPICER® SPL250HD XL LITE - LARGE (PROPS-L)

Updated:

March 30, 2025

The SPL® Lite product is built with fewer parts than competitive offerings, reducing overall maintenance costs. The Lite Series of driveshafts also uses the same end yokes and universal joints as their SPL counterparts, reducing inventory costs and complexity.

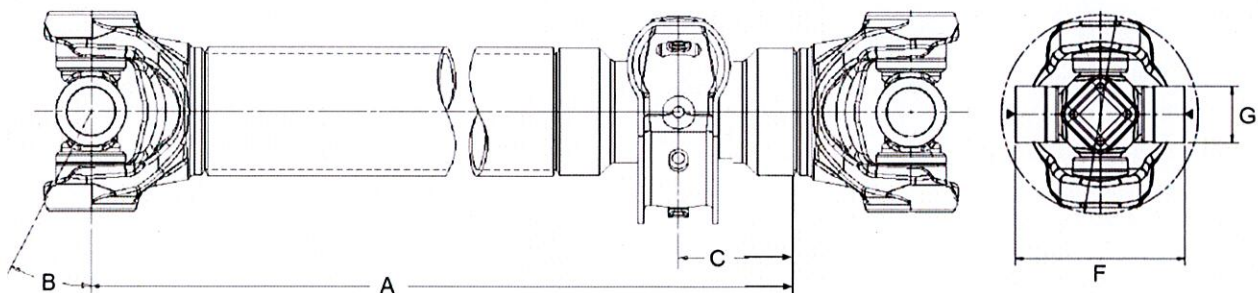
With torque ratings up to 30,000 Nm (22,127 lbs. ft.), this durable series of driveline systems is up to 35 pounds (15.9 kg) lighter than competitive products and provides the best balance specification in the industry.

- 40 percent improvement in calculated bearing capacity for longer life
- Efficient design delivers 70 percent higher power density
- Exclusive sealing package for extended life

Torque Rating		Wall Thickness	
(lbs. ft.)	Nm		
18,439	25,000	5.2 mm	0.205 in

Outboard Slip Coupling Shaft Assembly with Center Bearing

Minimum Length Centerline of Cross to End of Shaft "A"		Maximum Angle "B"	Tube Size (Outside Diameter)		Centerline of Center Bearing to End of Sleeve "C"		U-Joint Span "F"		Bearing Cup Diameter "G"	
mm	in		mm	in	mm	in	mm	in	mm	in
364.5	14.35	25°	118.6 x 5.2	4.67 x 0.205	76.5	3.01	163	6.42	60	2.37





Product Information

2042301

SPICER® SPL170 XL LITE

Updated:

March 30, 2025

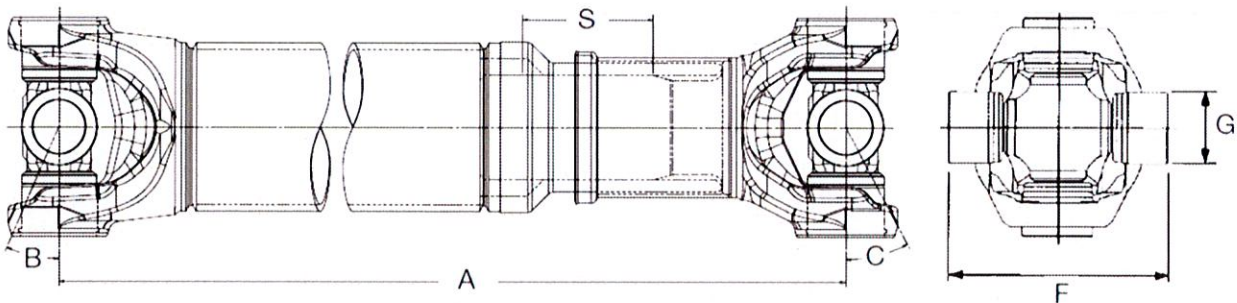
Handling heavy loads over the long haul has never been easier or more efficient, thanks to Dana's Spicer Life Series driveshafts. Now enhanced to offer even greater torque, durability, and savings, SPL® products offer 70 percent more power density than their nearest competitor and a 40 percent increase in bearing life. No other U-joint meets the needs of high-efficiency truck applications better than the SPL® U-joint.

- 40% improvement in calculated bearing capacity for longer life
- Exclusive sealing package for extended life
- Smaller packaging allows for greater flexibility among driveshaft configurations
- Efficient design delivers 70 percent higher power density

Torque Rating		Wall Thickness	
(lbs. ft.)	Nm		
11,063	15,000	4.57 mm	0.180 in

Slip Between Center Driveshaft

Minimum Length Collapsed Centerline to Centerline of Cross "A"		Slip Joint End			Tight Joint End			U-Joint Span "F"		Bearing Cup Diameter "G"	
		Slip "S"		Maximum Angle "B"	Tube Size		Maximum Angle "C"				
					mm	in		mm	in	mm	in
528.6	20.81	150	5.91	45°	116.7 x 4.57	4.59 x 0.180	45°	164	6.46	55	2.16





Product Information

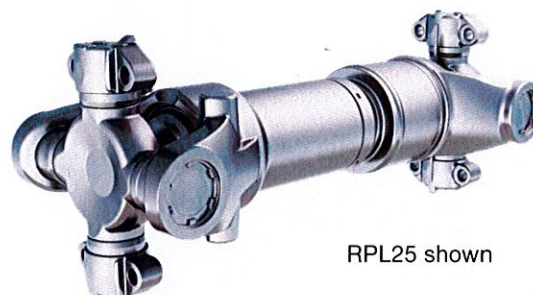
195-

MERITOR® DRIVELINES, MAIN

Updated:

January 26, 2025

Meritor Permalube™ RPL Series drivelines were the first in the North American heavy-duty commercial vehicle industry to be permanently lubricated and sealed for life. The advantage? Reduced operating and maintenance costs, industry-leading warranties, easy serviceability, and extended U-joint life, particularly on gear-fast/run-slow drivetrains and higher torque applications.



RPL25 shown

Features and Benefits

- High-torque-rated models available for demanding applications, including heavy service and engine downspeeding.
- Four-bolt design for easy installation and service.
- E-coated steel guard secures and protects the slip seal against contaminants and damage
- Extended U-joint life:
 - Triple lip seals provide the ultimate protection against contaminants.
 - Nylon thrust washers eliminate metal-to-metal contact, preventing wear.
- Self-aligning center bearing is standard.



Real life examples of high mileage u-joints show virtually no wear

Specifications	Sales Code				
	1951101	1951102	1951103	1951105	1951106
	RPL20	RPL25	RPL25HD	RPL35	RPL35SD
Tube Size (in.)	4.095 x 0.18	4.59 x 0.18	4.69 x 0.23	4.69 x 0.23	5.204 x 0.236
Tubing ID (in.)	3.735	4.23	4.23	4.23	4.732
Swing Diameter (in.)	7.8	9.1	9.1	8.11	8.11
Driveline Rating (lb.-ft.)	12,000	17,200	18,500	21,500	25,820
Driveline Rating (n-m)	16,270	23,320	25,083	29,150	35,000
High Torque Rated					



SED

PRODUCT INFORMATION

Sales Engineering

Mack Trucks, Inc.
Allentown, PA 18103
United States

Phone: 800 868 6225
Fax: 610 351 8791

MackTrucks.com

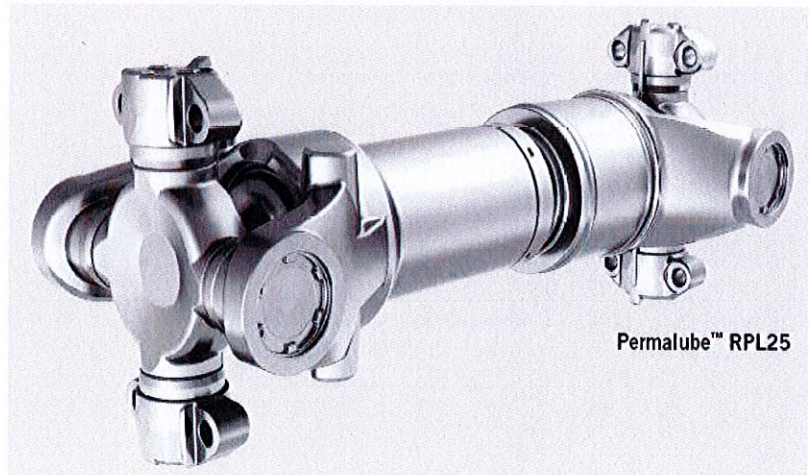
PID Code/Condition: 204-1101

Description: Meritor RPL20 Permalube Drivelines

Models: ALL

Date: September 11, 2015

MERITOR® PERMALUBE® RPL SERIES DRIVELINES



Permalube™ RPL25

Permanently Lubricated and Ready for Work

Meritor offers permanently lubricated driveline solutions to fit virtually any application, with a wide range of rated torque capacities and premium features.

Our driveline solutions offer the following benefits:

- Permanently lubricated and sealed for life
- High torque-rated models available
- Extended U-joint life
- 5-year/500,000-mile linehaul warranty

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SED

PRODUCT INFORMATION

Specifications	RPL20	RPL25	RPL25SD	High-Torque Rated	
				RPL35	RPL35SD
Tube Size (inches)	4.095 x 0.18	4.59 x 0.18	4.69 x 0.23	4.69 x 0.23	5.204 x 0.236
Tubing I.D. (inches)	3.735	4.23	4.23	4.23	4.732
Swing Diameter (inches)	7.80	9.10	9.10	8.11	8.11
Driveline Rating (lb.-ft.)	12,000	17,200	18,500	21,500	25,820
Driveline Rating (n-m)	16,270	23,320	25,083	29,150	35,000
Application	Main & Inter-axle	Main & Inter-axle	Main	Main	Main

The RPL35 Series drivelines were designed for demanding applications, such as heavy service and downspeeding. These applications often place higher torque demands on the drivetrain system. The RPL35 Series drivelines accommodate the increased engine torques and distribute it more evenly throughout the system.

For more information on downspeeding, refer to Meritor Downspeeding Solutions spec sheet (SP-1589).



Secure flange connections throughout the RPL35 Series drivelines accommodate high torques.

Features and Benefits

- 5-year/500,000-mile linehaul warranty
- High-torque-rated models available for demanding applications, including heavy service and downspeeding
- Four-bolt design for easy installation and service
- E-coated steel guard secures and protects the slip seal against contaminants and damage
- Extended U-joint life:
 - Triple lip seals provide the ultimate protection against contaminants
 - Nylon thrust washers eliminate metal-to-metal contact, preventing wear
- Self-aligning center bearing is standard
- Environmentally "green" because the need to grease the driveline is eliminated
- Partner with a leader – Meritor has been the industry's technology leader in drivetrain solutions for over 20 years

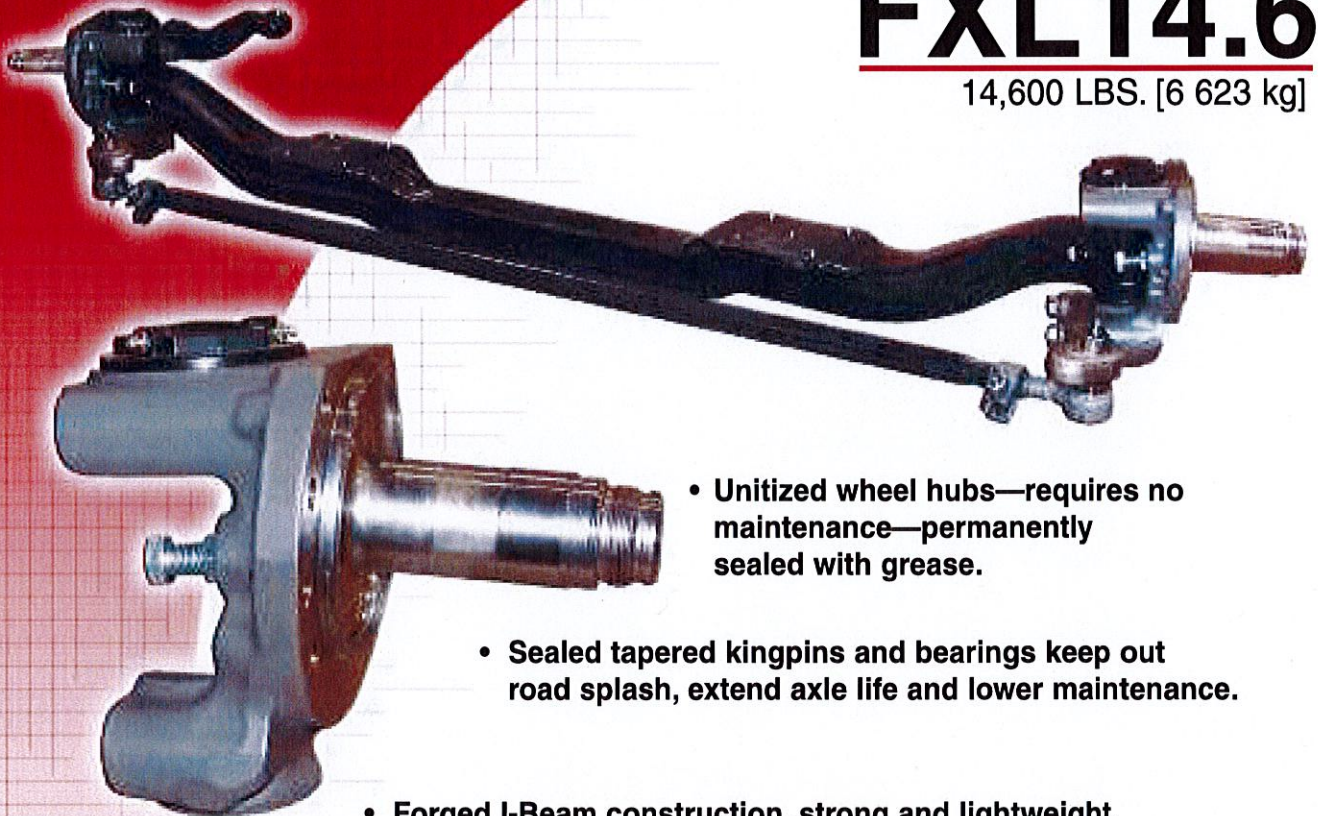
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FRONT AXLE

MAEK[®]

FXL14.6

14,600 LBS. [6 623 kg]



- Unitized wheel hubs—requires no maintenance—permanently sealed with grease.

- Sealed tapered kingpins and bearings keep out road splash, extend axle life and lower maintenance.

- Forged I-Beam construction, strong and lightweight.

DETAIL SPECIFICATIONS

MAKE: MACK

Type Reverse Elliot, Drop-Forged
& Heat Treated I-Beam
Size (Beam Center Height) 3.74" [95 mm]
Flange Width, Top 3.35" [85 mm]
Flange Width, Bottom 3.35" [85 mm]
Web Thickness 0.394" [10 mm]
Section Modulus 5.82" in³ [95 cm³]

STEERING KNUCKLE:

Material Chromium Molybdenum
Alloy Steel, Heat Treated
Spindle Diameter
Inner Bearing 2.28" [58 mm]
Outer Bearing 2.28" [58 mm]
Steering Knuckle Pin:
Material Modified Carbon Steel, Heat
Treated & Induction Hardened
Type Tapered
Diameter
Top 1.57" [40 mm]
Bottom 2.36" [60 mm]

STEERING KNUCKLE: (Continued)

Inclination 6°
Knuckle Pin Support
Upper Tapered Roller Bearing
Lower Grooved Bushing
Thrust Bearing
Type Tapered Roller Bearing
Location Top of Knuckle Pin
Hub Ductile Iron
Bearings Tapered Roller (Unitized)
Lubrication Permanently lubed
with Synthetic Grease

Pivot Centers:
FXL14.669.92" [1 776 mm]
Spring Centers 33.5" [851 mm] MRU
32.5" [826 mm] CHU, CXU, GU

NOTE: FXL used with wide base type tires will exceed 96" [2 438 mm] overall width.



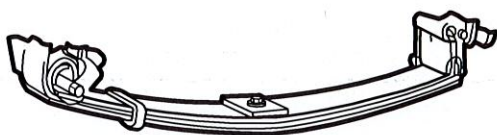
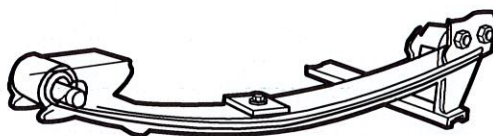
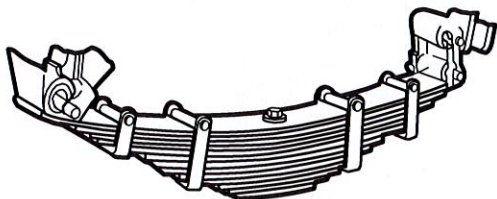
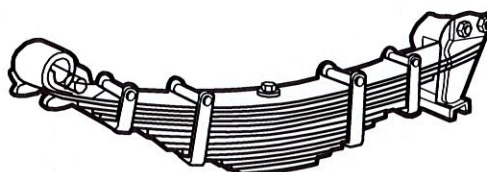
Mack Trucks, Inc., Allentown, Pennsylvania

BRAKES

TYPE		CAM
SIZE	DIAMETER WIDTH	16.5" [419 mm] 5" [127 mm]
MAKE		Arvin Meritor
ACTUATION		Air
LINING THICKNESS		0.85" [22 mm] Tapered
LINING AREA, TOTAL		157 in ² [2 026 cm ²]
CHAMBER SIZE— Sq. In. Per Wheel		1 @ 24 [155 cm ²]
SLACK ADJUSTER LENGTH		5.5" [140 mm]
BRAKE ADJUSTMENT		Self-Adjusting
DUST SHIELDS		Optional

SUSPENSION

SPRING CAPACITY (GRD. LOAD RATING)	SPRING SIZE	SPRING SIZE		CHASSIS MODEL APPLICATION
		LENGTH	WIDTH	
14,600 lb. [6 623 kg] STD.	Taperleaf - Shackle	52.52" [1 334 mm]	4" [102 mm]	CHU, GU
	Taperleaf - Shackle	58.85" [1 495 mm]	4" [102 mm]	CXU
	Multileaf - Shackle	52.52" [1 334 mm]	4" [102 mm]	GU
	Multileaf - Slipper	50.25" [1 276 mm]	3.5" [89 mm]	MRU

**TAPERLEAF SHACKLE****TAPERLEAF EYE & SLIPPER****MULTILEAF SHACKLE****MULTILEAF EYE & SLIPPER**



SED

PRODUCT INFORMATION

Sales Engineering

Mack Trucks, Inc.
Allentown, PA 18103
United States

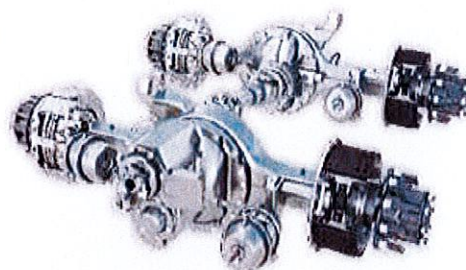
Phone: 800 868 6225
Fax: 610 351 8791

MackTrucks.com

PID Code/Condition: 268-2021
Description: Meritor RT46-164EH
Models: ALL
Date: August 10, 2015

MERITOR TANDEM AXLES

For many applications, nothing less than a tandem axle will survive. And Meritor tandems not only survive, but thrive on the toughest, meanest, most demanding jobs. Year after year, Meritor tandems keep delivering the performance. And the goods. With legendary durability. Plus reduced maintenance and operating costs.



Features/Options

Performance Benefits

14X EXCLUSIVE

More robust Inter-Axle Differential (IAD)	20% larger than the competition's and with fewer parts; torque capacity up to 2050 lb. ft. in certain applications; improved pinion, differential and needle bearing design provides longer life and increased reliability
2.64-7.17 vocational ratio range	Widest ratio range to match your application and specific engine manufacturer's recommendations
DualTrac™ housing option	Effectively repositions the loading on wheel bearings similar to dual tire configurations when used with 0.0"-0.56" offset wheels
High-torque gear design	Provides smoother and quieter operation, greater torque capacity and longer component life
Rugged, single-piece carrier design	Supports precise gear alignment
Meritor spindle design	Central Tire Inflation (CTI) system-ready
Optional aluminum rear carrier and is available for RT-40-145A family only	Reduces weight to deliver additional payload capacity and greater fuel economy
Broad range of gear ratios available	Enables end users to choose axles tailored to their needs, whether it be improved fuel economy, greater torque or maximum traction
Lowest-maintenance tandem design available	Extends range up to 500,000 miles between lube changes
Anti-lock braking system (ABS) and Automatic Traction Control (ATC) options	Provides greater braking control, shorter stopping distances and improved traction for both starting and higher-speed drivability
Optional Driver-Controlled Differential Lock (DCDL)	Provides maximum traction and spinout protection under slippery conditions

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SED

PRODUCT INFORMATION

Hypoid Single-Reduction Axle Specifications

RATINGS pounds (kg)	AXLE MODEL	GCW HIGHWAY pounds (kg)		STANDARD RATIOS	RING GEAR SIZE (PITCH DIAMETER) Inches (mm)	AXLE SHAFT SPLINE SIZE Inches (mm)	AXLE SHAFT DIAMETER Inches (mm)	HOUSING BOX SIZE Inches (mm)	WALL THICKNESS AT SPRING SEAT Inches (mm)	WHEEL-END SERIES	APPLICATIONS
		Max. 3% Grade (Tires/Plas)	Max. 8% Grade (Paved)								
45,000 (20,884)	RT-45-160P	185,000 (83,930)	160,000 (72,640)	3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.0 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)		0.50 (12.7), 0.63 (15.0) Wide Track Only Available as RT-45-154 Series		GS, HS, RS
	RT-46-154P								0.63 (15.0)		

Applications Key: GS – General Service • HS – Heavy Service • RS – Restricted Service

See Applications section for specific vehicle references. Refer to publication TP7824 for complete axle specification details.

The information in this document was accurate as of the date of release and pertains to the current version of Mack's Sales Tool. Mack Trucks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice.

ROAD STABILITY CO-PILOT DISPLAY

Product Information



698- MACK ROAD STABILITY WITH OR WITHOUT TRACTION CONTROL OVERRIDE SWITCH

Updated: June 21, 2022

The 698 family offers four options that deliver **Mack Road Stability** – Mack Trucks' advanced electronic stability control system – adding an important safety feature to a wide range of truck specifications, drastically reducing the risk of vehicle skidding and roll-over events.

Mack Road Stability features and benefits

- Counteracts vehicle skidding in slippery conditions.
- Helps provides corrective support in critical driving situations.
- Provides valuable assistive functions for driving safety, comfort, and agility.
- Helps the driver maintain control of the vehicle overall.



All 698 Mack Road Stability options deliver Bendix anti-lock brake systems (ABS) and are available in the following configurations: 4S/4M, 6S/6M, and with or without traction control override switch.

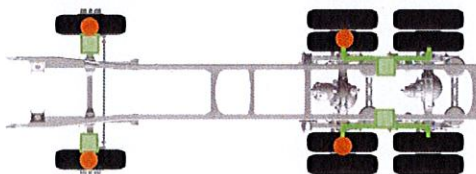
- **4S / 4M:** System delivers four ABS wheel speed sensors and four ABS modulator valves.
- **6S / 6M:** System delivers six ABS wheel speed sensors and six ABS modulator valves.
- **Automatic Traction Control (ATC) Override Switch:** Provides a dash-mounted switch, labeled as a Mud/Snow & ATC switch.



Mud / Snow: This function helps to increase available traction on soft surfaces like snow, mud, or gravel, by slightly increasing the permissible wheel spin.

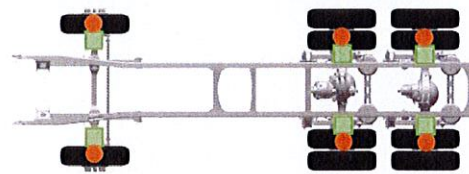
ATC: momentary override option: This function allows the driver to momentarily disable/override ATC for the duration of the ignition cycle, or second press of the switch.

4S/4M compared to 6S/6M configurations: *NOTE: See axle configuration detail on page 4.*



4S/4M configuration on 6X4

Note there are only 4 ABS wheel speed sensors and modulator valves. In this case, the rear axles share a left-hand and right-hand speed sensor and modulator valve. This design does not control each rear wheel individually but treats both left-hand and right-hand wheels as one.



6S/6M configuration on 6X4

Investing in a 6S/6M system adds an extra layer of safety with 2 additional ABS wheel speed sensors and modulator valves, allowing the system to control each wheel position independently during wheel spin, wheel skid, and stability control events.

Product Information



698- MACK ROAD STABILITY WITH OR WITHOUT TRACTION CONTROL OVERRIDE SWITCH

Updated: June 21, 2022

Advanced monitoring of large numbers of parameters

The primary parameters that are affected by the driver's actions are:

- Steering angle, where a sensor in the steering column measures steering wheel angle, requested engine torque, and requested braking torque.

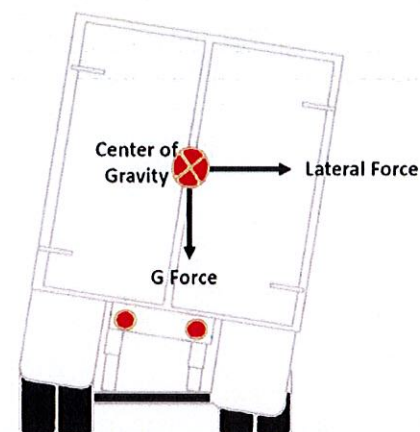
The primary parameters that indicate how the vehicle is handling are:

- Lateral forces: The forces that enable the vehicle to stay on the road in a curve.
- Yaw rate: The speed at which the vehicle pivots around its own center of gravity, which occurs when it turns and changes direction.
- Wheel speed: The speed at which the vehicle is moving and if one of the wheels locks.

How the system works

In practical terms, Mack Road Stability acts to reduce engine torque to the driven wheels, and controls wheel braking individually. The system also brakes the trailer's wheels in certain situations, thereby providing stability for the entire vehicle combination, both laterally and longitudinally.

Mack Road Stability monitors if the vehicle is travelling at excessively high speed, for example, during sudden evasive actions or in a curve, which could result in skidding or the risk of rolling over. Mack Road Stability also counteracts jack-knifing and trailer swing.



When the sensor for lateral acceleration indicates that the vehicle is approaching a point at which there is a risk of rolling over, Mack Road Stability reduces engine torque.

If necessary, the wheels are braked to slow down the vehicle and reduce lateral forces to an acceptable level. When Mack Road Stability's second roll over stage is utilized, a light braking is applied to the inner wheels.

If the system senses that one or more wheels on the vehicle have locked, this indicates that the wheel is about to lift and the wheel brakes are immediately activated to slow down the entire vehicle combination. In this way, speed and corresponding lateral forces are reduced to avoid rolling over. An EBS-equipped trailer can communicate fully with the system and Mack Road Stability can, in this way, sense if a wheel on the trailer is about to lock and lift.

Product Information

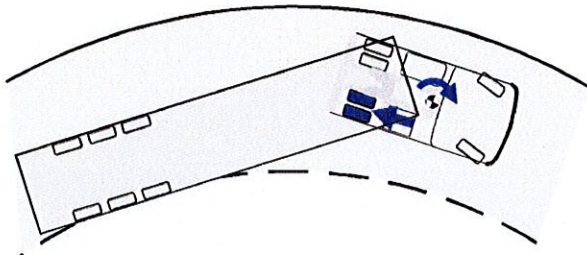


698- MACK ROAD STABILITY WITH OR WITHOUT TRACTION CONTROL OVERRIDE SWITCH

Updated: June 21, 2022

Example: Tractor skid with understeering

When a tractor/trailer combination understeers in a curve, the entire vehicle tends to continue moving straight ahead. The tractor's front wheels lose grip, and the trailer pushes from behind. In this situation, Mack Road Stability senses that the steering angle does not correspond to the lateral forces and the yaw angle speed, and the system counteracts understeering by braking the inner rear wheel.

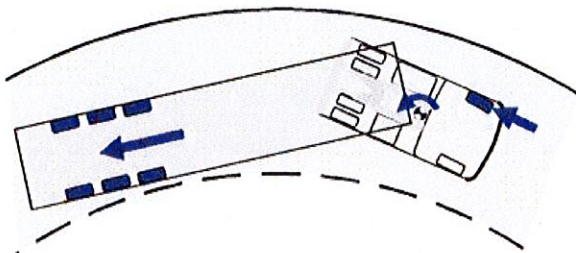


Mack Road Stability brakes the inner rear wheel and turns the trailer into the curve, enabling the front wheels to regain grip.

Example: Tractor skid with oversteering

When a vehicle with a trailer oversteers in a curve, the tractor's rear wheels lose grip and the rear-end skids out. The entire weight of the trailer acts to force out the rear-end even more. The tractor/trailer combination is close to jackknifing.

In this situation, Mack Road Stability senses that the yaw angle speed, steering angle, and lateral forces do not correspond to each other, and intervenes to steer in the opposite direction by braking the tractor's outer front wheel. The tendency to turn is counteracted. By braking the wheels on the trailer, the trailer acts to straighten out the vehicle combination and prevent jack-knifing.



Mack Road Stability brakes the outer front wheel to turn the tractor back and give the rear wheels grip. The trailer's wheels are braked to avoid jack-knifing.

Product Information

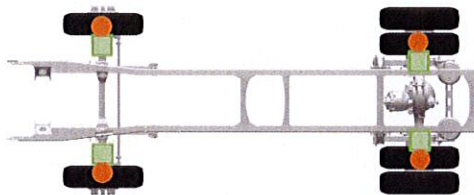


698- MACK ROAD STABILITY WITH OR WITHOUT TRACTION CONTROL OVERRIDE SWITCH

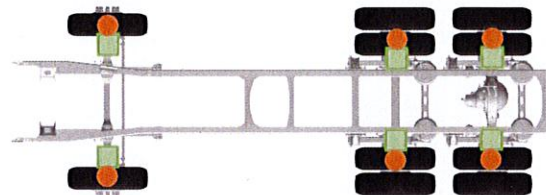
Updated: June 21, 2022

ABS component location by axle configuration: NOTE: Speed sensor location on 6X4 and 8X6 with 4S/4M systems may vary between the forward and rear drive axle depending on various factors related to suspension selection.

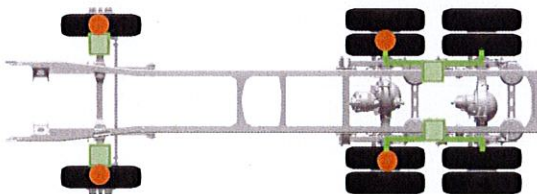
- ABS speed sensor ■ ABS modulator valve
— * Pneumatic plumbing combining two modulator valves



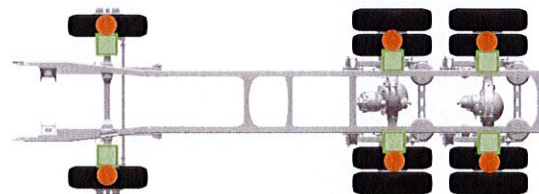
4X2 with 4S/4M



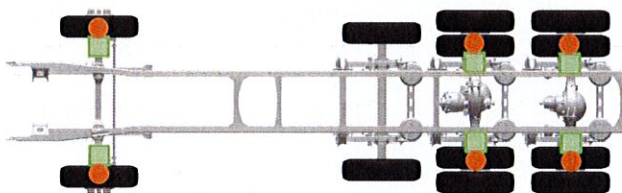
6X2 with 6S/6M



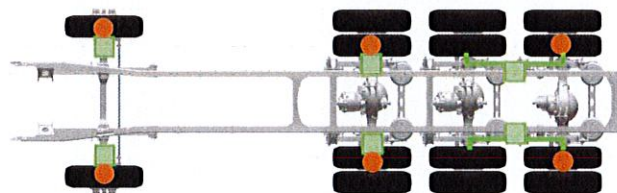
* 6X4 with 4S/4M



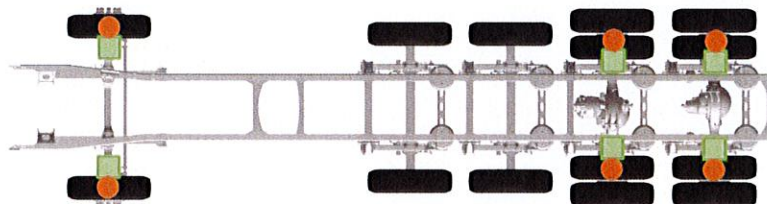
6X4 with 6S/6M



8X4 with 6S/6M



* 8X6 with 6S/6M



10X4 with 6S/6M

Product Information



Co-Pilot

Affects: Anthem, Pinnacle, Granite
Related: Interior Trim (004)
Updated: May 30, 2017

DRIVER INFORMATION DISPLAY

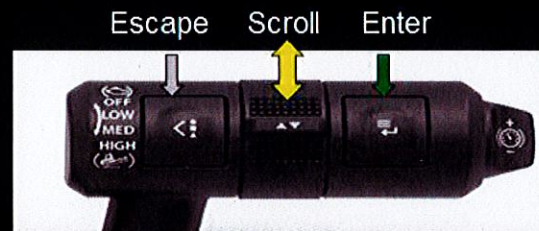
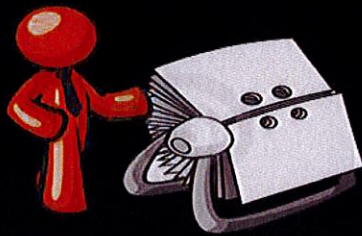
Copilot Display Control - Driver Information Display (DID)

Simple and intuitive

Meets FMCSA driver distraction guidelines

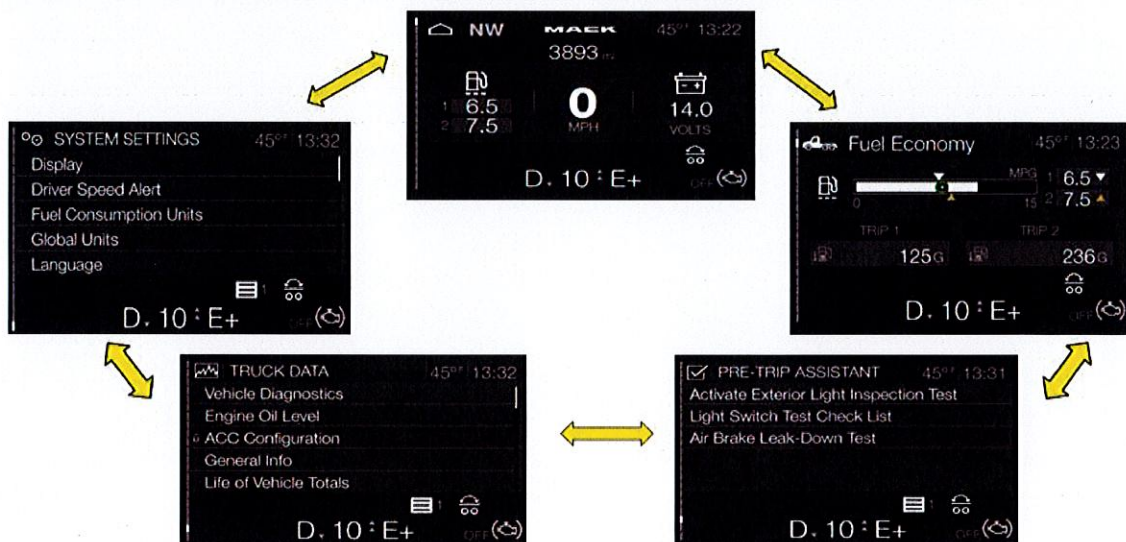
One keystroke access

360 deg. scroll switch works like a Rolodex



DID SCREEN NAVIGATION

Menu screen navigation is in a circular format



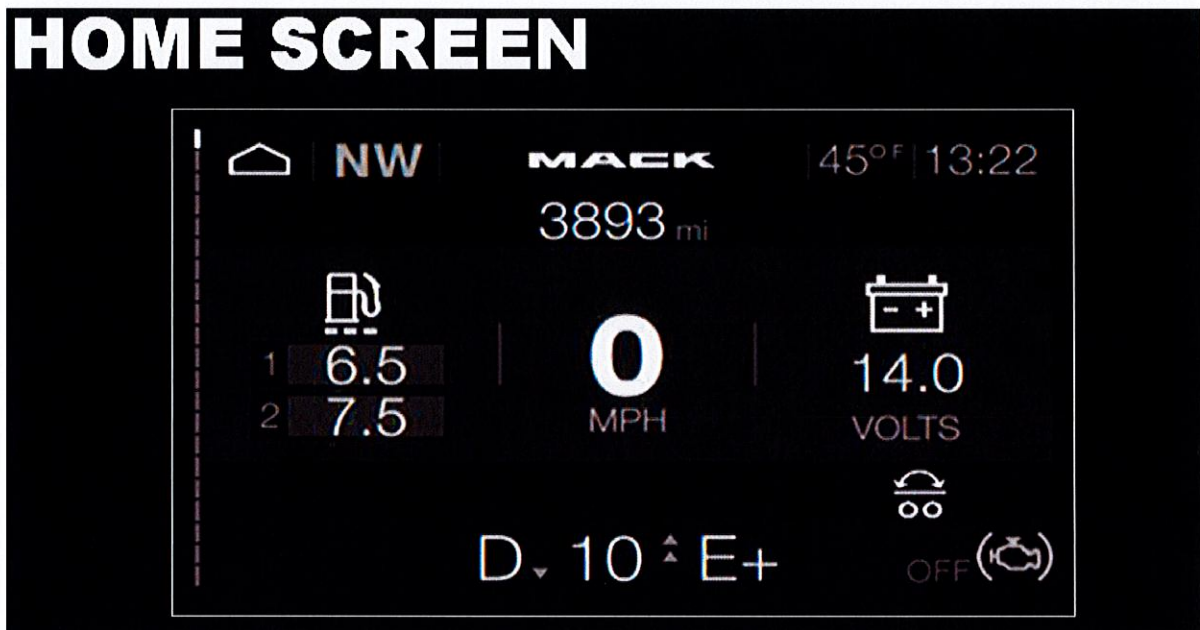
Product Information



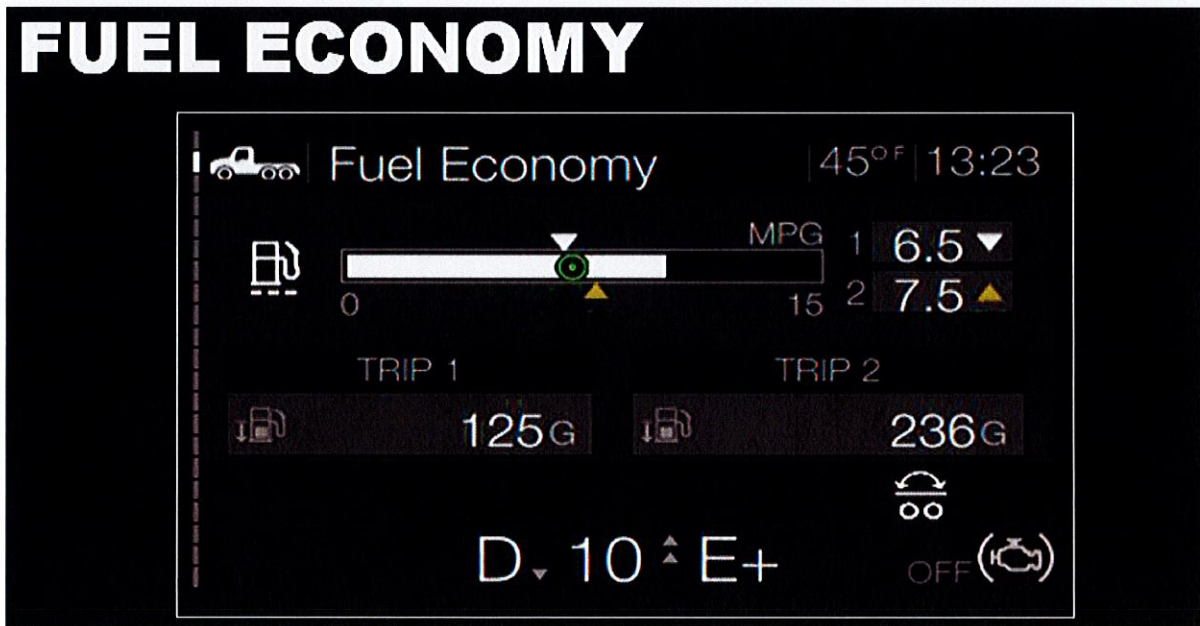
Co-Pilot

Affects: Anthem, Pinnacle, Granite
Related: Interior Trim (004)
Updated: May 30, 2017

HOME SCREEN



FUEL ECONOMY



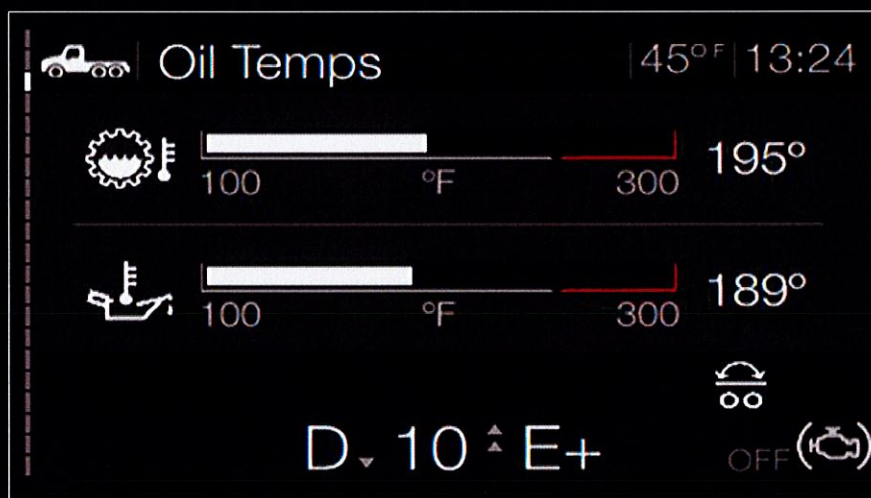
Product Information



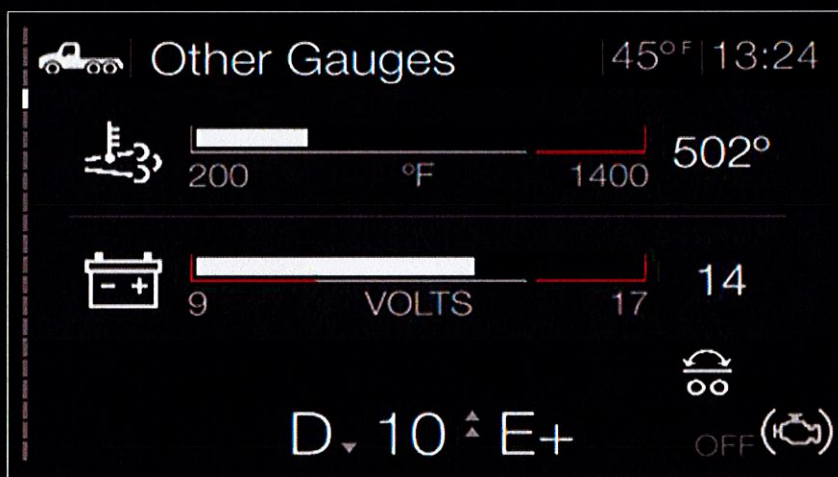
Co-Pilot

Affects: Anthem, Pinnacle, Granite
Related: Interior Trim (004)
Updated: May 30, 2017

OIL TEMPERATURES



EXHAUST PYROMETER, VOLTMETER



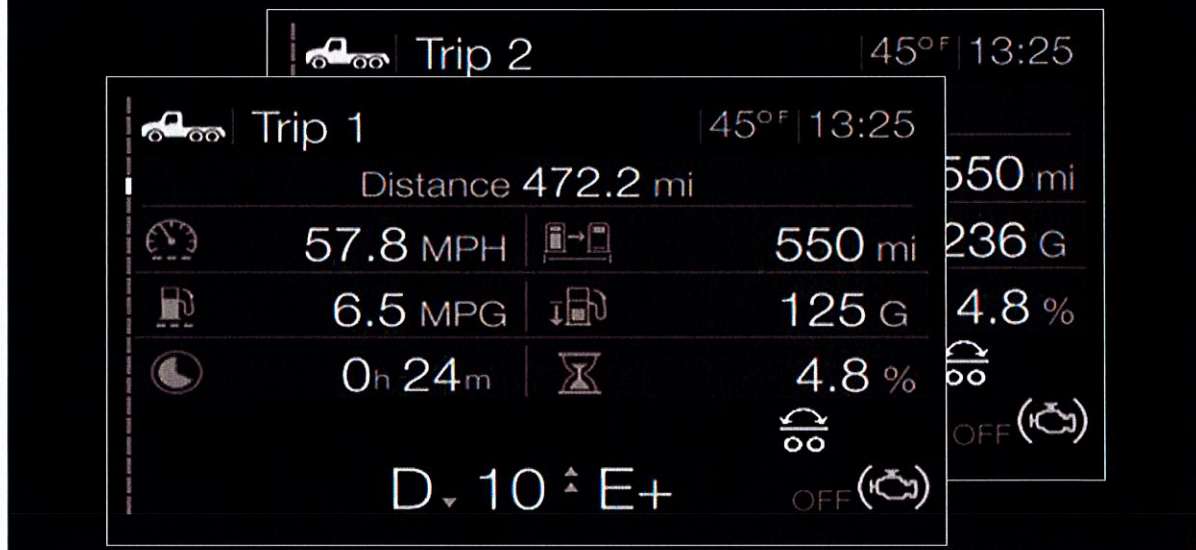
Product Information



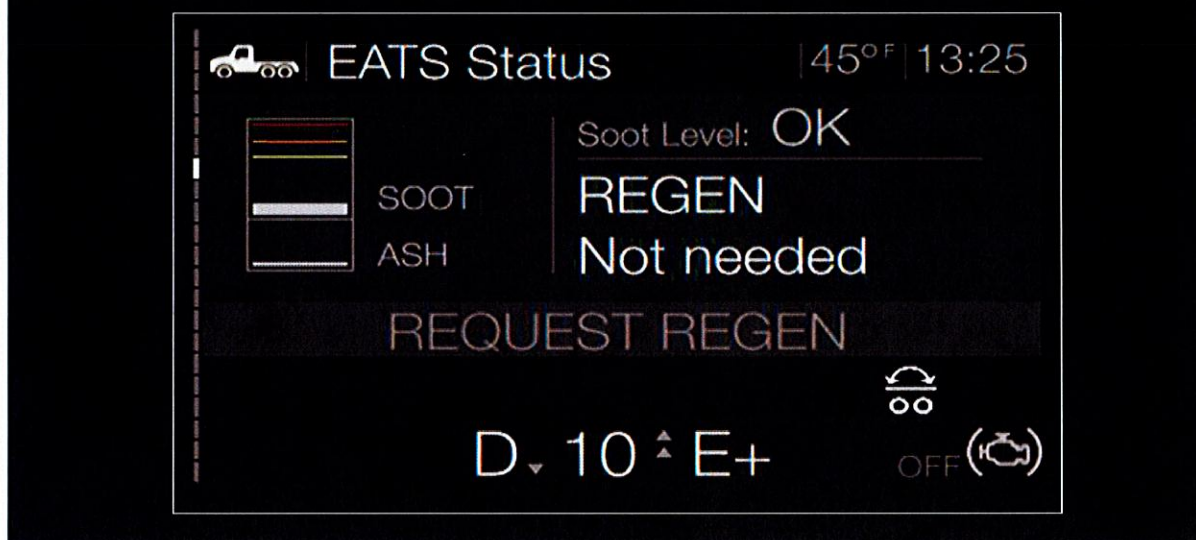
Co-Pilot

Affects: Anthem, Pinnacle, Granite
Related: Interior Trim (004)
Updated: May 30, 2017

TRIP ODOMETER 1 & 2



EATS STATUS (ENGINE AFTERTREATMENT SYSTEM)



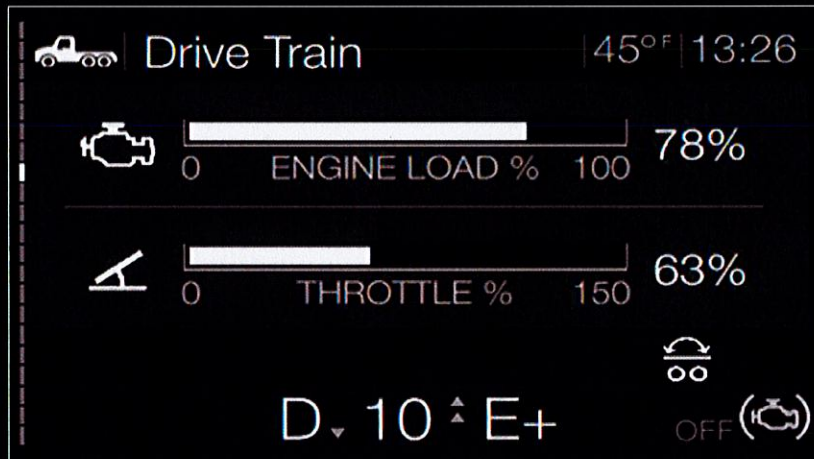
Product Information



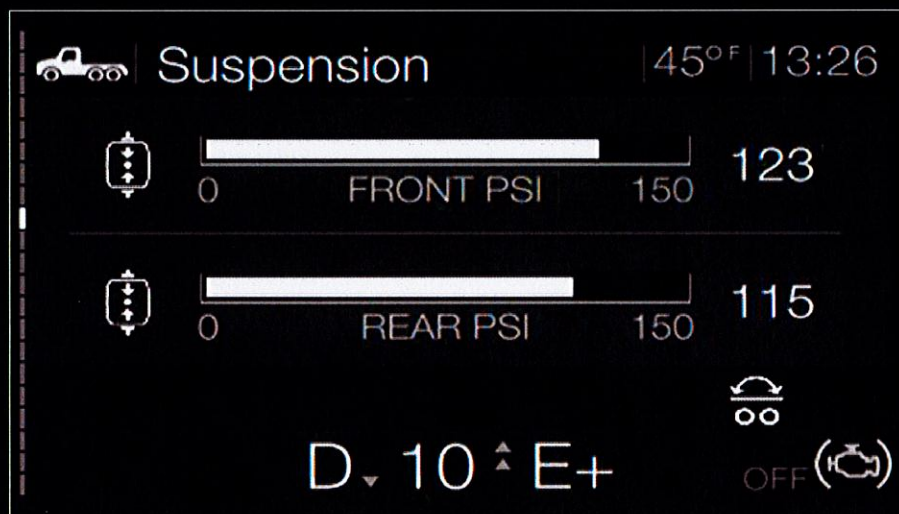
Co-Pilot

Affects: Anthem, Pinnacle, Granite
Related: Interior Trim (004)
Updated: May 30, 2017

DRIVE TRAIN LOAD, THROTTLE %



AIR SUSPENSION



Product Information



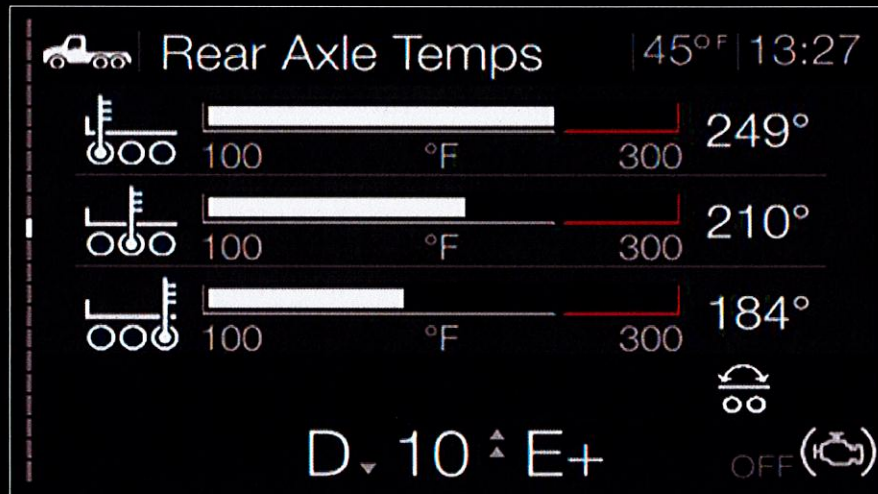
Co-Pilot

Affects: Anthem, Pinnacle, Granite

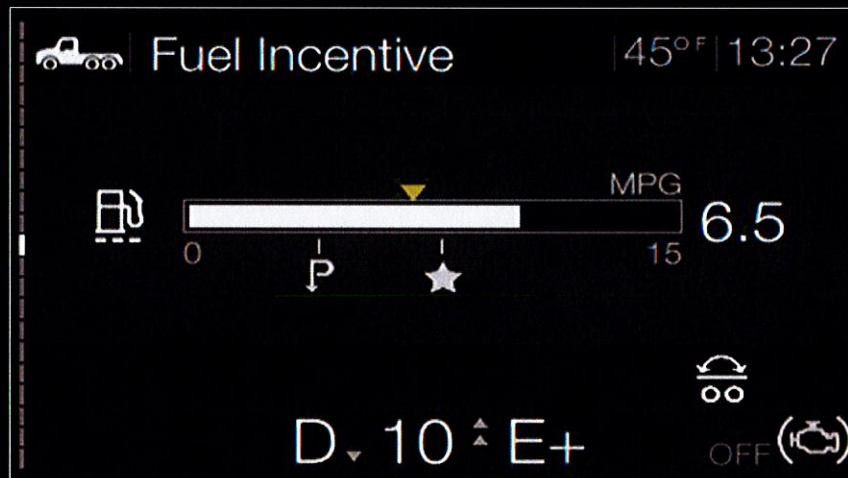
Related: Interior Trim (004)

Updated: May 30, 2017

AXLE TEMPERATURES



FUEL INCENTIVE



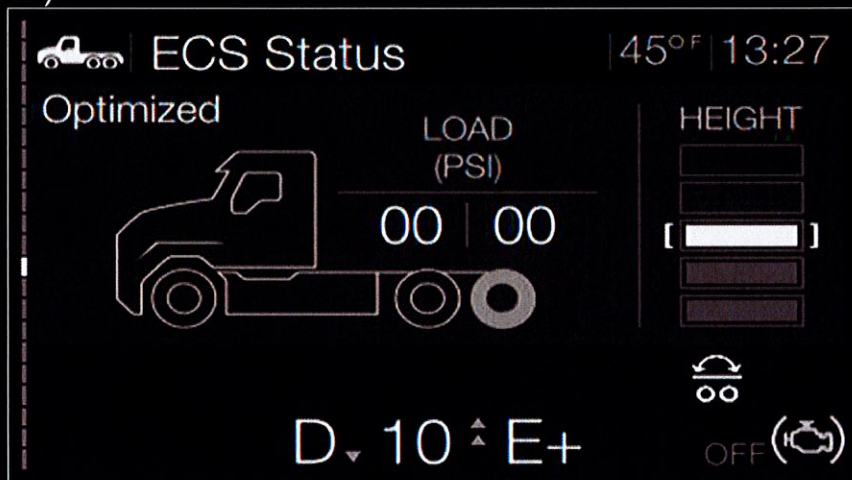
Product Information



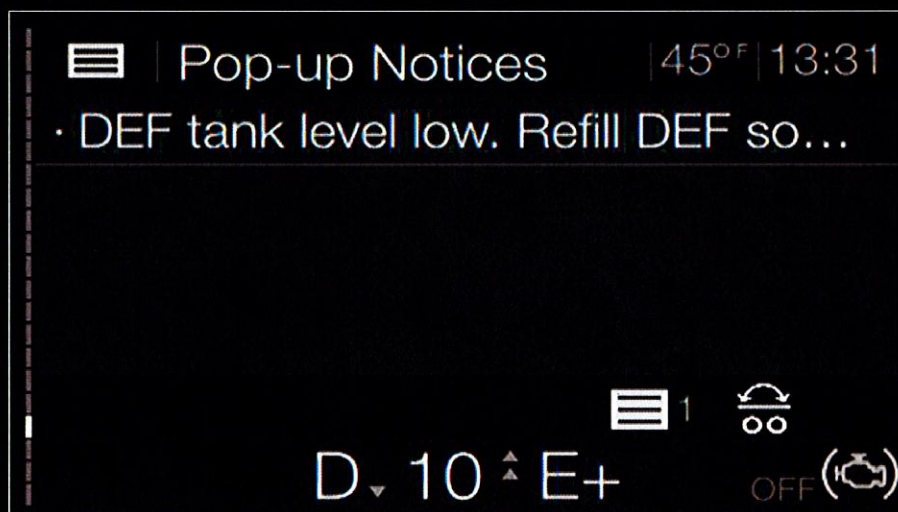
Co-Pilot

Affects: Anthem, Pinnacle, Granite
Related: Interior Trim (004)
Updated: May 30, 2017

ELECTRONIC CONTROLLED SUSPENSION (6X2 ONLY)



POP-UP NOTICES



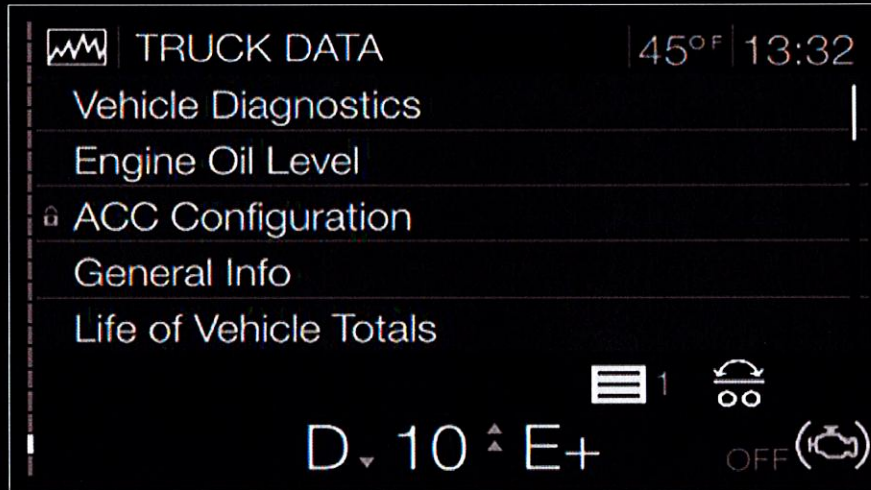
Product Information



Co-Pilot

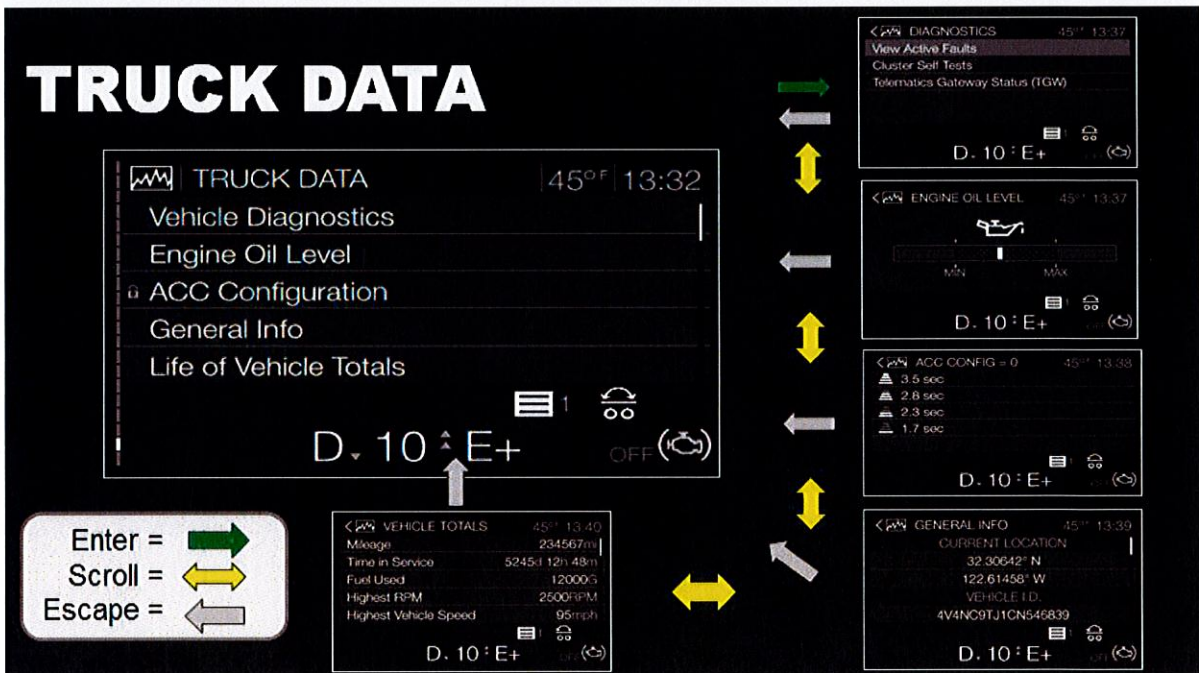
Affects: Anthem, Pinnacle, Granite
Related: Interior Trim (004)
Updated: May 30, 2017

TRUCK DATA



ONLY AVAILABLE WITH PARKING BRAKE APPLIED

TRUCK DATA



Product Information



Co-Pilot

Affects: Anthem, Pinnacle, Granite
Related: Interior Trim (004)
Updated: May 30, 2017

PRE-TRIP ASSISTANT

Enter =

Scroll =

Escape =

☒ PRE-TRIP ASSISTANT 45°F 13:31

Activate Exterior Light Inspection Test

Light Switch Test Check List

Air Brake Leak-Down Test

1

D 10 E+ OFF

☒ LIGHT INSPECTION 45°F 13:34

Exterior lights activated.

Exit cab and verify that all lights are functioning.

Exit screen to end test.

D 10 E+ OFF

☒ SWITCH TEST 45°F 13:35

☒ Left Turn Signal

☒ Fog Light

☐ Right Turn Signal

☐ Head Lights - AUTO

☐ Service Brake

☒ High Beams

☐ Hazard Lights

☐ Flash-to-Pass

☐ Parking Lights

☐ Reverse Backup Lights

☐ Head Lights

☒ OIL Override Switch

Activate each switch listed above

D 10 E+ OFF

☒ LEAK-DOWN TEST 45°F 13:36

To begin test:

Turn Engine Off

Start -- --

End -- --

Drop -- --

☐ START TEST

D 10 E+ OFF

PRE-TRIP ASSISTANT

☒ PRE-TRIP ASSISTANT 45°F 13:31

Activate Exterior Light Inspection Test

Light Switch Test Check List

Air Brake Leak-Down Test

1

D 10 E+ OFF

ONLY AVAILABLE WITH PARKING BRAKE APPLIED

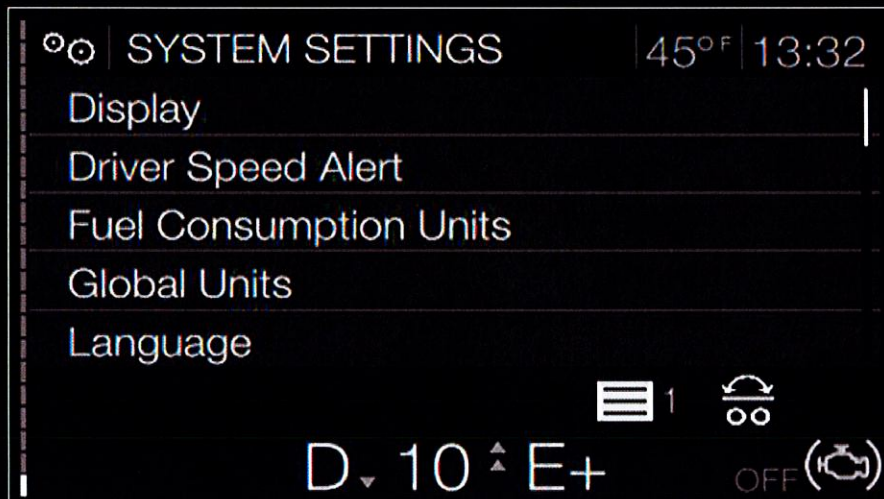
Product Information



Co-Pilot

Affects: Anthem, Pinnacle, Granite
Related: Interior Trim (004)
Updated: May 30, 2017

SYSTEM SETTINGS



ONLY AVAILABLE WITH PARKING BRAKE APPLIED

DFA-FULL: This feature will allow the driver to access fault codes through the Co-Pilot display.

DFA-LIM: This feature will not allow the driver to access fault codes through the Co-Pilot display.

WARRANTY INFORMATION

STANDARD CHASSIS WARRANTY CERTIFICATE



Mack Trucks warrants certain individual components of the new Mack truck to be free from defects in material and workmanship under normal use and service up to the periods as specified, provided all Mack Trucks' maintenance and inspection requirements are followed. See your local authorized Mack dealer for recommended maintenance and inspection procedures. All warranty periods are calculated from date in service of the vehicle. All coverage is 100% for parts and labor subject to the qualifications, limitations, and exclusions as noted.

**LIMITATIONS AND EXCLUSIONS TO THIS WARRANTY APPEAR ON THE REVERSE SIDE OF THIS CERTIFICATE.
THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT AND MUST BE READ AND UNDERSTOOD.**

This warranty applies to **Model Year 2026 trucks**, AN, GR, LR, PI, PR, TE models, manufactured by Mack Trucks, operated in the United States and Canada with **EPA 24 / CARB 24 and newer engines**. Specific coverage is based on the application and weight class as described in the following chart:

	Standard NORMAL DUTY	Standard HEAVY DUTY	Standard SEVERE DUTY
Typical Vocations	Line / Long Haul, Short Haul, or Pickup & Delivery	Heavy Line Haul, Construction, Refuse, Fire or Rescue Service	Heavy Construction, Heavy Refuse, Off-Road, Heavy Haul, Mining, Logging, or Oil Field
Weight Class Qualifications	<i>Vehicle must have</i> GVWR ≤ 63,000 lbs. (≤ 28 metric tons) or GCWR ≤ 110,000 lbs. (≤ 50 mt.)	<i>Vehicle must have</i> GVWR ≤ 80,000 lbs. (≤ 36 mt.) or GCWR ≤ 143,000 lbs. (≤ 65 mt.)	<i>Vehicle must have</i> GAWR > 52,000 lbs. (> 23.5 mt.) or GVWR > 80,000 lbs. (> 36 mt.) or GCWR > 143,000 lbs. (> 65 mt.)
Basic Coverage *	12 months or 100,000 miles (160,934 km)	12 months or 100,000 miles (160,934 km)	12 months or 100,000 miles (160,934 km)
Chassis Towing	Towing/Road Service coverage is limited to 90 days or 5,000 miles (8047 km), whichever occurs first, limited to the truck (less trailer) and to a single tow per incident to the nearest authorized Mack Trucks service center. Charges in excess of \$1,000 are not covered unless Mack OneCall™ service is contacted and approves additional amounts prior to tow.		Not Applicable
Air Conditioning	Air conditioning (sealed system only) is covered for 12 months with no mileage limitation.		
Engine / Emission	Not covered under this warranty certificate. See respective engine manufacturer's warranty certificate. See paragraph 19 on reverse side.		
Transmission, Driveline, Rear Axle, Front Non-Drive Steer Axle	Covered Components are as follows: • Manual Transmission – Transmission assembly • Driveline – Bearings, hangers & shafts • Rear Axle – Differential carrier assembly & axle housing • Front Non-Drive Steer Axle – Axle beam, steering knuckle, & tie rod Allison Automatic Transmissions are not covered under this warranty certificate. See paragraph 19 on reverse side.		12 months or 100,000 miles (160,934 km)
Mack Carrier & Axle Housing	60 months or 750,000 miles (1,207,008 km)	60 months or 500,000 miles (804,672 km)	24 months or 100,000 miles (160,934 km)
mDRIVE™ Transmission	60 months or 750,000 miles (1,207,008 km) mDRIVE™ and mDRIVE™ HD	mDRIVE™: 36 months or 250,000 miles (402,336 km); mDRIVE™ HD: 36 months with no mileage limitation	12 months or 100,000 miles (160,934 km); mDRIVE™ HD: 24 months with no mileage limitation
mDRIVE™ Clutch	36 months or 350,000 miles (563,270 km) mDRIVE™ and mDRIVE™ HD	36 months or 250,000 miles (402,336 km) mDRIVE™ and mDRIVE™ HD	mDRIVE™: 12 months or 100,000 miles (160,934 km); mDRIVE™ HD: 24 months or 250,000 miles (402,336 km)
mDRIVE™ Transmission Towing	Towing/Road Service on warrantable transmission failures is covered to 24 months or 250,000 miles (402,336 km) whichever occurs first, limited to the truck (less trailer), and to a single tow per incident to the nearest authorized Mack Trucks service center. Charges in excess of \$1,000 are not covered unless Mack OneCall™ service is contacted and approves additional amounts prior to tow.		Not Applicable
Trunnion Bracket	36 months or 300,000 miles (482,803 km) Limited to Trunnion Bracket & Spindle, Suspension Trunnion (Except Bushings)		12 months or 100,000 miles (160,934 km) (same restrictions as Normal & Heavy)
Cab Structure	60 months or 500,000 miles (804,672 km)	24 months or 200,000 miles (321,869 km) PR Model Only: 60 months or 500,000 miles (804,672 km)	12 months or 100,000 miles (160,934 km) PR Model Only: 36 months or 250,000 miles (402,336 km)
Internal Cab Corrosion	60 months or 500,000 miles (804,672 km)	60 months or 500,000 miles (804,672 km)	60 months or 500,000 miles (804,672 km) PR Model Only: 48 months or 350,000 miles (563,270 km)
Frame Rail / Crossmembers	Covered only where metal is perforated from the inside to the outside. See paragraph 18 on the reverse side.		
	60 months or 500,000 miles (804,672 km) AN, PI, PR Models Only: 72 months or 750,000 miles (1,207,008 km)	36 months or 300,000 miles (482,803 km) GR and PR Models only: 60 months or 500,000 miles (804,672 km)	12 months or 100,000 miles (160,934 km) PR Model Only: 36 months or 250,000 miles (402,336 km)
Noise Emission	LIFE OF VEHICLE: Mack Trucks warrants to the first purchaser of this vehicle for purposes other than resale, and to each subsequent purchaser, that this vehicle was designed, built, and equipped to conform, at the time of sale to such first purchaser, with all applicable U.S. EPA noise control regulations. This warranty is not limited to any vehicle particular part, component, or system of the vehicle. Defects in the design, assembly, or any part, component, or system of the vehicle, which at the time of sale to such first purchaser, caused noise emission levels to exceed Federal standards, are covered by this warranty for the life of the vehicle. EXCLUSIONS: Failures which arise as a result of tampering rather than from defects in the design, assembly, or any part, components, or system of the vehicle are not covered by this warranty.		

* Covered for 30 Days: Fluorescent Lights or Ballast, Light Bulbs, Fuses, Wiper Blades, and All Filters (oil, fuel, air, etc.).

* Covered for 90 Days: Loose Fasteners, Leaking Fittings, or Loose Hose Clamps.

THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT AND MUST BE READ AND UNDERSTOOD.

LIMITATIONS – Mack Trucks' obligation is limited to, at its sole option, repair or replacement of parts which are acknowledged by it to be defective. The defective parts or assemblies replaced shall become the property of Mack Trucks. Warranty repairs performed by an authorized Mack dealer in accordance with the terms of the warranty set forth herein are free of charge. Warranty consideration can only be given if the deficiency is brought to the attention of an authorized Mack dealer upon discovery and the vehicle must be made available, in a timely fashion during the coverage period, for repair.

EXCLUSIONS:

1. **REPAIR:** In the case of acknowledged defective Covered Parts, exchange with factory remanufactured parts may occur. Warranty repairs do not constitute an extension of any warranty period for any vehicle, component, or part.
2. **DAMAGES:** Damages due to misapplication, misuse, accidents, negligence, improper operations, alterations, storage or transport, operation at excessive speeds, loading beyond the factory rated load capacity, failure to follow Mack Trucks' recommended inspection, maintenance, and service procedures, and improper or insufficient maintenance services are not covered.
3. **PROGRESSIVE DAMAGE:** Damages due to failure of operator to take reasonable precautions to mitigate damage are not covered. Damages to a Covered Part due to failure of non-covered part are not covered. Coverage is limited to failure of a Covered Part directly causing failure of a non-covered part, where reasonable precautions were taken to mitigate damages.
4. **APPLICATION:** The selling dealer is responsible for designating the correct application and/or specification for a vehicle sold to a customer. Damages due to misapplication, including but not limited to, failures of component parts of vehicles being operated in excess of factory rated load capacities, or the use of a vehicle, component, or part for a purpose for which it was not intended are not covered.
5. **ALTERATIONS:** Any vehicle, component or part repaired, altered, or inspected in any way, so as to adversely affect, in Mack Trucks' sole judgment, its stability, durability, or reliability, is not covered.
6. **NON-ORIGINAL EQUIPMENT:** Any part of the vehicle that fails, malfunctions, or does not perform as a result of improper conversion or installation of bodies or equipment by other manufacturers or suppliers is not covered.
7. **MAINTENANCE AND PARTS CONSUMED:** Maintenance and inspection requirements found in the Operator's Manuals and service manuals/instructions, including, but not limited to, engine tune-up, fuel system cleaning, replacement of lubricants and filter elements, adjustments of the engine injection pump/transmission/brakes/linkages, as well as diagnosis, test time and all other adjustments must be followed and are not covered. Parts which are normally consumed or worn out during the vehicle's normal service life and customarily replaced during usual maintenance service, including, but not limited to, mud flaps and brackets, brake linings, clutch brake, and clutch linings, are not covered.
8. **PERFORMANCE COMPLAINTS:** Performance complaints are not covered (including, but not limited to, low power and/or poor fuel economy). Coverage is limited to defects in material and workmanship of a Covered Part directly causing the performance issue.
9. **WEAROUT:** Mack Trucks does not cover normal wear of Covered Parts. Failures attributable to wear are excluded. For example, and without limitation, the wear rate of parts in any engine or transmission, and especially those parts within the combustion area and clutch housing area, will vary depending upon operating conditions and environment. Conditions, such as load, trailer configuration, road speed and road conditions, as well as the quality of fuel, lubrication oil, and all filters bear a direct relationship to the wear rate and resulting life of parts. Depending upon the severity of these various conditions, parts wear and resulting failure could occur within the time limit of the coverage.
10. **NON-GENUINE PARTS:** Any failure of any vehicle, component or part caused by the use of parts and accessories, or major assemblies and exchange units, which do not meet factory standards is not covered.
11. **ODOMETER READING:** Any vehicle on which the actual mileage or hours cannot readily be determined, or on which the odometer, hour meter, or Electronic Control Unit has been disconnected, disabled, or altered, may not be covered by this warranty.
12. **ACCESS TO INFORMATION:** Owner must allow Mack Trucks full access to all data stored in all Electronic Control Modules; failure to do so may result in the loss of warranty coverage.
13. **LABOR:** Labor to remove and install a Covered Part is included only if a Mack Trucks authorized dealer originally installed the Covered Part. Labor for overtime and/or shift differential is not covered. Excessive labor for a warrantable repair due to the prior installation of equipment or body is not covered.
14. **MISC. EXPENSE:** Meals, lodging, communications charges, travel time and expense, loss of cargo, downtime, loss of profit/revenue, rental vehicles, driver's wages, and other miscellaneous expenses are not covered. Shop supplies, lube oil, lubricants, sealers, anti-freeze, filter elements and labor performed by a non-approved location are not covered.
15. **ADDITIONAL COMPONENTS:** Components or parts that are not installed by Mack Trucks, including winches, power take-offs, dumper, mixer and refuse assemblies, hoists and bodies or other special equipment are not covered. During a warrantable repair, additional time to remove any customer installed components will not be covered under warranty. Mack Trucks' factory manufacturing records will be determinative as to factory installed components.
16. **TOWING:** Unless expressly provided in this Warranty Certificate, expenses for towing or road service are not covered. Failures caused by improper towing technique are not covered.
17. **SUSPENSION PARTS:** Suspension parts, including but not limited to rubber bushings, torque rod bushings, spring pins and bushings, and greased lubrication points that fail due to improper maintenance, abnormally severe service or abuse are not covered.
18. **CAB STRUCTURE AND CORROSION:** Cab structural defects or cab corrosion that occurs in areas of the cab that previously were damaged, repaired, altered, or modified are not covered. Cab corrosion where metal is perforated from the outside to the inside is not covered.
19. **VENDOR ENGINES, ALLISON AUTOMATIC TRANSMISSIONS and ALTERNATE FUEL STORAGE AND DELIVERY SYSTEMS:** Vendor engines, Allison automatic transmissions and alternate fuel (CNG/LNG/DME) fuel storage/delivery components used in Mack trucks are warranted by their respective manufacturers and not by Mack Trucks, Inc. Refer to the manufacturers' warranty statements.
20. **OIL CONSUMPTION:** Before a claim based upon excessive oil consumption will be considered, the owner must provide proof that all recommended maintenance has been performed and submit adequate documentation to show that oil consumption exceeds Mack Trucks' published standards. Under no circumstances will warranty pay for repairs related to excessive oil consumption after the earlier of 24 months, 250,000 miles, or 402,000 kilometers.
21. **ENVIRONMENTAL DAMAGE:** Parts made out of cloth, leather, wood, rubber, synthetics, paint, or chrome which have been affected by exposure to the elements or chemical influence including, but not limited to, road salt/chemicals, industrial fall-out or the use of improper cleaners, polishes and/or waxes are not covered.
22. **ALIGNMENT:** Alignment of axle(s), balance of tires, changing of axle camber, caster, toe and thrust angle are not covered.
23. **GLASS:** Glass breakage and scratches are not covered unless physical proof of manufacturing responsibility is established.
24. **TIRES:** Except as expressly provided in warranty certificates covering Green House Gas (GHG) components, tires are covered only under warranties provided by the tire manufacturer.
25. **CHANGES:** Mack Trucks reserves the right to make any changes in design, or make additions to or upon its products, without incurring any obligations to install the same changes on vehicles previously built.

THIS WARRANTY IS MADE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, REPRESENTATIONS OR CONDITIONS, STATUTORY OR OTHERWISE, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATION OR LIABILITY ON THE PART OF THE MANUFACTURER INCLUDING, WITHOUT LIMITATION OF THE FOREGOING, CONSEQUENTIAL, INDIRECT, AND INCIDENTAL DAMAGES. MANUFACTURER NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF VEHICLES, COMPONENTS OR PARTS.

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Greensboro, North Carolina 27409

STANDARD ENGINE WARRANTY CERTIFICATE

(EPA 24 / CARB 24 and Newer, Truck Model Year 2026)



Mack Trucks warrants certain individual components of each new Mack® MP®7, MP8, and MP13, EPA 24 / CARB 24 and newer emission engine in a new Mack truck to be free from defects in material and workmanship under normal use and service up to the periods specified, provided all Mack Trucks' maintenance and inspection requirements are followed. See your local authorized Mack dealer for recommended maintenance and inspection procedures. All warranty periods are calculated from the date in service of the vehicle. All coverage is 100% for parts and labor subject to the qualifications, limitations and exclusions as noted.

**LIMITATIONS AND EXCLUSIONS TO THIS WARRANTY APPEAR ON THE FOLLOWING PAGES OF THIS CERTIFICATE.
THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT AND MUST BE READ AND UNDERSTOOD.**

This warranty applies to only new Mack MP7, MP8, and MP13 engines meeting EPA 24 / CARB 24 and newer emission requirements in new Mack trucks operated in the United States and Canada installed in Model Year 2026 trucks.

Standard Mack Engine Components Coverage: 24 months or 250,000 miles (402,336 km), whichever occurs first, unless otherwise noted.

Major Components Coverage: 60 months or 500,000 miles (804,672 km), whichever occurs first.

USE OF IMPROPER OR UNAPPROVED FUEL OR ENGINE OIL WILL VOID THE ENGINE AND AFTERTREATMENT SYSTEM (DIESEL PARTICULATE FILTER) WARRANTIES. MACK DIESEL ENGINES REQUIRE THE USE OF ULTRA LOW SULFUR DIESEL (ULSD) FUEL AND OIL THAT MEETS API CK4 OR FA4 STANDARDS WHICH INCLUDES MACK SPECIFICATION EOS-4.5 OR EOS-5 HIGH PERFORMANCE DIESEL ENGINE OIL.

USE OF FLUIDS OTHER THAN API CERTIFIED DIESEL EXHAUST FLUID (DEF) WILL COMPROMISE AFTERTREATMENT SYSTEM PERFORMANCE, INCREASE EMISSIONS, AND MAY IMPACT THIS TRUCK'S PRODUCT WARRANTIES.

SEE FOLLOWING TABLE FOR SPECIFIC COVERAGES:

Covered Standard Components List: 24 Months or 250,000 miles (402,336 km)	Qualifications and Limitations
Air Compressor	Includes: Sprocket and Mounting Bolts
Bearings	All internally lubricated bearings and bushings only.
Camshaft, Caps, and Bolts	Failures resulting from the valve and injector adjustments not being maintained properly are NOT covered. Normal maintenance adjustments are NOT covered.
Connecting Rods, Caps, and Bolts	
Coolant Duct Cover	
Crankcase Ventilation Assembly	
Crankshaft	
Crankshaft Hub	
Cylinder Block	Includes: Casting, Main Caps, and Bolts
Cylinder Block Heater	
Cylinder Head	Includes: Assembly, Casting, Bolts, Plugs, and Sleeves
Diesel Particulate Filter Assembly (DPF) / Diesel Oxidation Catalyst (DOC) / Selective Catalytic Reduction (SCR)	Includes: Aftertreatment Hydrocarbon Injector (AHI), Aftertreatment Wiring Harness, Aftertreatment Control Module, Diffuser Pipe (AHI Mounting), Fuel Lines to AHI Injector, AHI Shutoff Valve, AHI Fuel Pressure Sensor, Pre-Catalyst Temperature Sensor, Post-Catalyst Temperature Sensor, Post-DPF Temperature Sensor, DPF Differential Pressure Sensor, Particulate Matter (PM) Sensor, SCR Assembly, DEF Pump Assembly (Pump Reverting Valve, Pump Pressure Sensor), DEF Injector, DEF Tank Heating Control Valve, NOx (SCR Inlet and Outlet) Sensor, Post-SCR Temperature Sensor
EGR (Exhaust Gas Recirculation) Components	All components including Clamps, Control Valve, Controller Area Network (CAN) EGR Valve, Cooler, Fittings, Gaskets, Mixer, Pipes, Charge Air Cooler Temperature Out (CAC Out) Sensor, EGR Venturi, EGR Venturi Differential Pressure Sensor, EGR Wiring Harness.
Electrical EA Harness Supplied with Engine	From EECU to sensors and injectors and actuators
Engine Electronic Control Unit (EECU)	
Engine Brake Mechanism	Factory installed only. Includes: Control Valve and Rocker Arms. Turbo Compound (TC) engine: Closed Loop Butterfly (CLB)

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Covered Standard Engine Components List: 24 Months or 250,000 miles (402,336 km)	Qualifications and Limitations
Exhaust Manifold	Includes: Casting, Joint Seals, Rings, and Wraps
Fan Belt Tensioner Assemblies and Bracket	Excludes: Fan Belts
Flywheel	Includes: Housing and Ring Gear
Fuel Filter Housing	Excludes: Filters
Fuel Injection System	Includes: Injectors and Common Rail Assembly (Electronic Fuel Pressure Regulator and Pressure Sensor)
Fuel Transfer Pump	
Gaskets, Seals, O Rings, and Silicon Sealant	
Gears	All internally lubricated gears only (Timing and Idler gears)
Hoses and Lines Supplied with Engine	Fluid carrying: Engine to engine mounted
Idler Pulleys	
Intake Manifold and Throttle Assembly	
Ladder Frame	
Oil Cooler	Engine Oil Cooler only
Oil Fill Tube and Cap	
Oil Filter Housing	Excludes: Oil Filters. Includes: All control valves and sensors contained in the Oil Filter Housing.
Oil Pan	
Oil Pump	
Piston Assembly	Includes: Cooler Nozzles, Liners, Pistons, and Rings
Pneumatic Control System	TC Engine: Air Valve Unit, Buffer Valve Unit, and Check Valve
Power Steering Pump	
Pre-Heater	Factory installed only. Includes: Preheat Relay, Terminals, and Power Cables
PTO Drive / REPTO (Rear Engine Mounted PTO Drive)	Factory installed only. Excludes: All Pumps or Driven Gears
Rocker Arm Assembly and Shafts	Includes: Rockers and Non-Brake Rockers. Failures resulting from the valve and injector adjustments not being maintained properly are NOT covered. Normal maintenance adjustments are NOT covered.
Sensors (On Engine)	Includes: Temperature-Coolant, Crankcase Pressure, EGR Temperature, Engine Oil Level/Temperature, Engine Oil Pressure, Engine Timing/Speed (Flywheel), Temperature & Pressure – Inlet Manifold Air Sensor; Piston Cooling Jet Pressure
Starter Motor	
Telematics Gateway	TGW Unit and Associated Hardware (Antenna, Cab Overlay Harness, Antenna Cables
Thermostat (Coolant)	Includes: Thermostat Side Cover
Timing Gear Cover and Plate	
Towing	Towing/Road Service on warrantable engine failures is covered to 24 months or 250,000 miles (402 336 km) whichever occurs first, limited to the truck (less trailer) and to a single tow per incident to the nearest authorized Mack service center. Charges in excess of \$1,000.00 are not covered unless Mack OneCall™ service is contacted and approves additional amounts prior to tow.
Turbocharger Assembly	Includes: VGT Actuator Module and Turbo Compound (TC) Assembly, if included
Valve Assembly	Includes: Guides, Keepers, Rotators, Seats, Springs, and Valves. Failures resulting from the valve adjustments not being maintained properly are NOT covered. Normal maintenance adjustments are NOT covered.
Valve Cover	
Valve Yokes (Bridge) and Pins	Failures resulting from the valve adjustments not being maintained properly are NOT covered. Normal maintenance adjustments are NOT covered.
Vibration Dampers and Bolts	
Water Pump Assembly	
Covered Major Engine Components List: 60 Months or 500,000 miles (804,672 km)	Qualifications and Limitations
Camshaft, Caps, and Bolts	Failures resulting from the valve & injector adjustments not being maintained properly are NOT covered. Normal maintenance adjustments are NOT covered.
Connecting Rods, Caps, and Bolts	
Crankshaft Forging	
Cylinder Block Casting, Main Caps, and Bolts	
Cylinder Head Casting and Bolts	
Exhaust Manifold Casting	
Flywheel Housing	
Gears	All internally lubricated gears only (Timing and Idler Gears)
Intake Manifold Housing	
Ladder Frame	
Thermostat Housing	
Timing Gear Mounting Plate	Excludes: Timing Gear Cover

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THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT AND MUST BE READ AND UNDERSTOOD.

LIMITATIONS – Mack Trucks' obligation is limited to, at its sole option, repair or replacement of parts which are acknowledged by it to be defective. The defective parts or assemblies replaced shall become the property of Mack Trucks. Warranty repairs performed by an authorized Mack dealer in accordance with the terms of the warranty set forth herein are free of charge. Warranty consideration can only be given if the deficiency is brought to the attention of an authorized Mack dealer upon discovery and the vehicle must be made available, in a timely fashion during the coverage period, for repair.

EXCLUSIONS:

1. **REPAIR:** In the case of acknowledged defective Covered Parts, exchange with factory remanufactured parts may occur. Warranty repairs do not constitute an extension of any warranty period for any vehicle, component, or part.
2. **DAMAGES:** Damages due to misapplication, misuse, accidents, negligence, improper operations, alterations, storage or transport, operation at excessive speeds, loading beyond the factory rated load capacity, failure to follow Mack Trucks' recommended inspection, maintenance, and service procedures, and improper or insufficient maintenance services are not covered.
3. **PROGRESSIVE DAMAGE:** Damages due to failure of operator to take reasonable precautions to mitigate damage are not covered. Damages to a Covered Part due to failure of non-covered part are not covered. Coverage is limited to failure of a Covered Part directly causing failure of a non-covered part, where reasonable precautions were taken to mitigate damages.
4. **APPLICATION:** The selling dealer is responsible for designating the correct application and/or specification for a vehicle sold to a customer. Damages due to misapplication, including but not limited to, failures of component parts of vehicles being operated in excess of factory rated load capacities, or the use of a vehicle, component, or part for a purpose for which it was not intended are not covered.
5. **ALTERATIONS:** Any vehicle, component or part repaired, altered, or inspected in any way, so as to adversely affect, in Mack Trucks' sole judgment, its stability, durability, or reliability, is not covered.
6. **NON-ORIGINAL EQUIPMENT:** Any part of the vehicle that fails, malfunctions, or does not perform as a result of improper conversion or installation of bodies or equipment by other manufacturers or suppliers is not covered.
7. **MAINTENANCE AND PARTS CONSUMED:** Maintenance and inspection requirements found in the Operator's Manuals and service manuals/instructions, including, but not limited to, engine tune-up, fuel system cleaning, replacement of lubricants and filter elements, adjustments of the engine injection pump/transmission/brakes/linkages, as well as diagnosis, test time and all other adjustments must be followed and are not covered. Parts which are normally consumed or worn out during the vehicle's normal service life and customarily replaced during usual maintenance service, including, but not limited to, mud flaps and brackets, brake linings, clutch brake, and clutch linings, are not covered.
8. **PERFORMANCE COMPLAINTS:** Performance complaints are not covered (including, but not limited to, low power and/or poor fuel economy). Coverage is limited to defects in material and workmanship of a Covered Part directly causing the performance issue.
9. **WEAROUT:** Mack Trucks does not cover normal wear of Covered Parts. Failures attributable to wear are excluded. For example, and without limitation, the wear rate of parts in any engine or transmission, and especially those parts within the combustion area and clutch housing area, will vary depending upon operating conditions and environment. Conditions, such as load, trailer configuration, road speed and road conditions, as well as the quality of fuel, lubrication oil, and all filters bear a direct relationship to the wear rate and resulting life of parts. Depending upon the severity of these various conditions, parts wear and resulting failure could occur within the time limit of the coverage.
10. **NON-GENUINE PARTS:** Any failure of any vehicle, component or part caused by the use of parts and accessories, or major assemblies and exchange units, which do not meet factory standards is not covered.
11. **ODOMETER READING:** Any vehicle on which the actual mileage or hours cannot readily be determined, or on which the odometer, hour meter, or Electronic Control Unit has been disconnected, disabled, or altered, may not be covered by this warranty.
12. **ACCESS TO INFORMATION:** Owner must allow Mack Trucks full access to all data stored in all Electronic Control Modules; failure to do so may result in the loss of warranty coverage.
13. **LABOR:** Labor to remove and install a Covered Part is included only if a Mack Trucks authorized dealer originally installed the Covered Part. Labor for overtime and/or shift differential is not covered. Excessive labor for a warrantable repair due to the prior installation of equipment or body is not covered.
14. **MISC. EXPENSE:** Meals, lodging, communications charges, travel time and expense, loss of cargo, downtime, loss of profit/revenue, rental vehicles, driver's wages and other miscellaneous expenses are not covered. Shop supplies, lube oil, lubricants, sealers, anti-freeze, filter elements and labor performed by a non-approved location are not covered.
 - i. **ADDITIONAL COMPONENTS:** Components or parts that are not installed by Mack Trucks, including winches, power take-offs, dumper, mixer and refuse assemblies, hoists and bodies or other special equipment are not covered. During a warrantable repair, additional time to remove any customer installed components will not be covered under warranty. Mack Trucks' factory manufacturing records will be determinative as to factory installed components.
16. **TOWING:** Unless expressly provided in this Warranty Certificate, expenses for towing or road service are not covered. Failures caused by improper towing technique are not covered.
17. **SUSPENSION PARTS:** Suspension parts, including but not limited to rubber bushings, torque rod bushings, spring pins and bushings, and greased lubrication points that fail due to improper maintenance, abnormally severe service or abuse are not covered.
18. **CAB STRUCTURE AND CORROSION:** Cab structural defects or cab corrosion that occurs in areas of the cab that previously were damaged, repaired, altered, or modified are not covered. Cab corrosion where metal is perforated from the outside to the inside is not covered.
19. **VENDOR ENGINES, ALLISON AUTOMATIC TRANSMISSIONS and ALTERNATE FUEL STORAGE AND DELIVERY SYSTEMS:** Vendor engines, Allison automatic transmissions and alternate fuel (CNG/LNG/DME) fuel storage/delivery components used in Mack trucks are warranted by their respective manufacturers and not by Mack Trucks, Inc. Refer to the manufacturers' warranty statements.
20. **OIL CONSUMPTION:** Before a claim based upon excessive oil consumption will be considered, the owner must provide proof that all recommended maintenance has been performed and submit adequate documentation to show that oil consumption exceeds Mack Trucks' published standards. Under no circumstances will warranty pay for repairs related to excessive oil consumption after the earlier of 24 months, 250,000 miles, or 402,000 kilometers.
21. **ENVIRONMENTAL DAMAGE:** Parts made from cloth, leather, wood, rubber, synthetics, paint, or chrome, which have been affected by exposure to the elements or chemical influence including, but not limited to, road salt/chemicals, industrial fall-out or the use of improper cleaners, polishes and/or waxes are not covered.
22. **ALIGNMENT:** Alignment of axle(s), balance of tires, changing of axle camber, caster, toe and thrust angle are not covered.
23. **GLASS:** Glass breakage and scratches are not covered unless physical proof of manufacturing responsibility is established.
24. **TIRES:** Except as expressly provided in warranty certificates covering Green House Gas (GHG) components, tires are covered only under warranties provided by the tire manufacturer.
25. **CHANGES:** Mack Trucks reserves the right to make any changes in design, or make additions to or upon its products, without incurring any obligations to install the same changes on vehicles previously built.

THIS WARRANTY IS MADE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, REPRESENTATIONS OR CONDITIONS, STATUTORY OR OTHERWISE, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATION OR LIABILITY ON THE PART OF THE MANUFACTURER INCLUDING, WITHOUT LIMITATION OF THE FOREGOING, CONSEQUENTIAL, INDIRECT, AND INCIDENTAL DAMAGES. MANUFACTURER NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF VEHICLES, COMPONENTS OR PARTS.

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STANDARD EMISSIONS COMPONENT WARRANTY CERTIFICATE

(EPA 24 / CARB 24 and Newer, Model Year 2026)



Mack Trucks warrants certain individual components of the Emission Control system in a new Mack truck equipped with a new Mack® MP®7, MP8 and MP13 engines meeting EPA 24 / CARB 24 and newer emission requirements to be free from defects in material and workmanship under normal use and service up to the periods specified, provided all Mack Trucks' maintenance and inspection requirements are followed. See your local authorized Mack Trucks dealer for recommended maintenance and inspection procedures. All warranty periods are calculated from the date in service of the vehicle. All coverage is 100% for parts and labor subject to the qualifications, limitations and exclusions as noted.

LIMITATIONS AND EXCLUSIONS TO THIS WARRANTY APPEAR ON THE FOLLOWING PAGES OF THIS CERTIFICATE. THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT AND MUST BE READ AND UNDERSTOOD.

This warranty applies to new Mack MP7, MP8 and MP13 engines meeting EPA 24 / CARB 24 and newer emission requirements in new Mack trucks operated in the United States and Canada installed in Model Year 2026 trucks.

Emission Control System Warranty: Engine emission controls manufactured by Mack Trucks are warranted to 60 months or 100,000 miles (160,934 km), whichever first occurs. Vehicles sold with a CARB emission label certification, are covered for 60 months or 350,000 miles (563,270 km), whichever first occurs.

USE OF IMPROPER OR UNAPPROVED FUEL OR ENGINE OIL WILL VOID THE ENGINE AND AFTERTREATMENT SYSTEM (DIESEL PARTICULATE FILTER) WARRANTIES. MACK DIESEL ENGINES REQUIRE THE USE OF ULTRA LOW SULFUR DIESEL (ULSD) FUEL AND OIL THAT MEETS API CK-4 OR FA-4 STANDARDS WHICH INCLUDES MACK SPECIFICATION EOS-4.5 OR EOS-5 HIGH PERFORMANCE DIESEL ENGINE OIL.

USE OF FLUIDS OTHER THAN API CERTIFIED DIESEL EXHAUST FLUID (DEF) WILL COMPROMISE AFTERTREATMENT SYSTEM PERFORMANCE, INCREASE EMISSIONS, AND MAY IMPACT THIS TRUCK'S PRODUCT WARRANTIES.

SEE FOLLOWING TABLE FOR SPECIFIC COVERAGES:

Covered Emission Components List: EPA: 60 Months or 100,000 Miles (160,934 km) CARB: 60 Months or 350,000 Miles (563,270 km)	Qualifications and Limitations
Aftertreatment Control Module (ACM)	Includes: Software and Dataset
Aftertreatment Diesel Particulate Filter (DPF) with Aftertreatment Diesel Oxidation Catalyst (DOC)	Includes: DPF Module (Substrate), DOC Module (Substrate), Aftertreatment Hydrocarbon Injector (AHI), AHI Shutoff Valve, AHI Fuel Pressure Sensor, AHI Fuel Line, Diesel Dosing Valve, Pre-Catalyst Temperature Sensor, Post-Catalyst Temperature Sensor, Downstream DPF Temperature Sensor, DPF Differential Pressure Sensor
Aftertreatment Wiring Harness (DPF)	
Aftertreatment Wiring Harness (SCR)	Includes: Jumper to AHI Pressure Regulator, ACM Power Supply, Heater NOx Care, DEF Tank
California Certified Engines (CARB) Equipped with these Chassis Parts:	Includes: 48V Power Cable, 48V Ground Cable, Exhaust Piping, 48V Li-on Battery, Heater Control Unit, Cooling Fan;
California Certified Engines (CARB) Equipped with these Exhaust Aftertreatment System (EATS) Parts	Includes: 48V EATS e-Heater, EATS Harness, EATS Power Cable, EATS Ground Cable
California Certified Engines (CARB) Equipped with these Engine Parts	Includes: 48V P0 Machine, FEAD – Belt, FEAD – Idler (2) OAD Pulley, Engine Harness, Inlet Manifold
Charge Air Cooler (CAC)	
Common Rail Assembly	Includes: Rail, Rail Injectors, Rail Pressure Release Valve
Controller Area Network (CAN) EGR Valve	
Crankcase Ventilation (CCV) Assembly	
Crankcase Tubing & Hoses Before Separator	
EGR Assembly	Includes: Cooler, Mixer/Mixing Chamber, EGR Cooler to Intake Manifold (cold side) Piping, EGR Piping Exhaust Manifold to EGR Cooler (hot side), EGR Valve, EGR Valve Control, EGR Venturi, Intake Manifold Heater, Diffuser Pipe, Intake Throttle Valve
Engine Electronic Control Unit (EECU)	Includes: Software and Dataset. For the failure to be covered, the failure must affect the emissions of the unit.
Engine Turbocharger Assembly: Variable Geometry Turbo (VGT) or Turbo Compound (TC)	Includes: Variable Geometry Turbo (VGT) Actuator
Exhaust Gas Piping	From Turbocharger to After-treatment System
Fuel Filter Module	Includes: Fuel Filter Housing, Diesel Lower Pressure Pump, Fuel Pressure Regulating Valve

Covered Emission Components List: EPA: 60 Months or 100,000 Miles (160,934 km) CARB: 60 Months or 350,000 Miles (563,270 km)	Qualifications and Limitations
Injectors	
Instrument Cluster	Limited to Repair of Microprocessor, MIL, Real Time Clock, DEF Gauge, DEF Lamp
Intake Manifold Throttle Assembly	
Pre-Heater	
Selective Catalytic Reduction (SCR)	SCR - SCR Assembly: SCR Module (if applicable) (Substrate); Insulation Blanket (where applicable); DEF Pump Assembly: Pump Reverting Valve, Pump Pressure Sensor; DEF Injector; DEF Heated Hoses; DEF Tank; DEF Tank Heating Control Valve; DEF Tank Heater / Sender: DEF Tank Temperature Sensor, DEF Level Sensor, DEF Tank Heater; Downstream SCR Temperature Sensor; DEF Quality Sensor
Sensor, NOx (SCR Inlet and Outlet)	
Sensor, Ambient Air Temperature	
Sensor, Charge Air Cooler Outlet Temperature	
Sensor, Downstream SCR Temperature (T4)	
Sensor, EGR Temperature	
Sensor, EGR Valve Position	
Sensor, EGR Venturi Differential Pressure	
Sensor, Engine Timing / Speed (Flywheel)	
Sensor, Engine Oil Level/Temperature	
Sensor, Engine Oil Pressure	
Sensor, Engine Position (Camshaft)	
Sensor, Exhaust Manifold Pressure	
Sensor, Fuel Pressure (Common Rail)	
Sensor, Fuel Temperature	
Sensor, Particulate Matter (PM)	
Sensor, Temperature – Coolant (Engine)	
Sensor, Temperature & Pressure – Inlet Manifold Air	
Sensor, Temperature - Exhaust Manifold	
Sensor, Turbo Compressor Outlet	
Sensor, Turbocharger Speed	
Thermostat, Coolant	
Vehicle Electronic Control Unit (VECU)	Includes: Software and Dataset. For the failure to be covered, the failure must affect the emissions of the unit.
Water Pump Assembly, Engine Coolant	
Wiring Harness, Engine Electrical EA Harness Supplied with Engine	
GHG Covered Component 24 Months or 24,000 Miles (38,624 km)	Qualifications and Limitations
Tires	Drive and steer tires only are warranted to be free from defects in materials and workmanship for the first 24 months or 24,000 miles (38 624 km) of vehicle operation, whichever occurs first, and applying only to the first set of tires on the vehicle when delivered to the ultimate purchaser. Emissions related warranty coverage only, refer to the specific tire manufacturer's warranty policy for other term lengths.
GHG Covered Components: EPA: 60 Months or 100,000 Miles (160,934 km) (Only those vehicles certified as "Highway Tractors" according to the requirements of Chapter 40 of the Code of Federal Regulations, Part 1037)	Qualifications and Limitations
Exterior Components	Limited to: Chassis Fairings, Ground Effect Extensions, Roof Deflectors, Cab Side Deflectors, Adjustable Roof Extensions, Side Deflector Extensions, Bumper Deflectors, A-Pillar Deflectors, Factory Installed Aerodynamic Devices
Air Conditioning Components	Limited to: A/C Compressor, A/C Condenser, A/C Pressure Switches and Transducers, Bunk Climate Unit, Hoses (Compressor to Condenser, Condenser to Drier, Drier to Climate Unit, Climate Unit to Compressor, Bunk Climate Unit), Main Climate Unit, Receiver Drier

THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT AND MUST BE READ AND UNDERSTOOD.

LIMITATIONS – Mack Trucks' obligation is limited to, at its sole option, repair or replacement of parts which are acknowledged by it to be defective. The defective parts or assemblies replaced shall become the property of Mack Trucks. Warranty repairs performed by an authorized Mack dealer in accordance with the terms of the warranty set forth herein are free of charge. Warranty consideration can only be given if the deficiency is brought to the attention of an authorized Mack dealer upon discovery and the vehicle must be made available, in a timely fashion during the coverage period, for repair.

EXCLUSIONS:

1. **REPAIR:** In the case of acknowledged defective Covered Parts, exchange with factory remanufactured parts may occur. Warranty repairs do not constitute an extension of any warranty period for any vehicle, component, or part.
2. **DAMAGES:** Damages due to misapplication, misuse, accidents, negligence, improper operations, alterations, storage or transport, operation at excessive speeds, loading beyond the factory rated load capacity, failure to follow Mack Trucks' recommended inspection, maintenance, and service procedures, and improper or insufficient maintenance services are not covered.
3. **PROGRESSIVE DAMAGE:** Damages due to failure of operator to take reasonable precautions to mitigate damage are not covered. Damages to a Covered Part due to failure of non-covered part are not covered. Coverage is limited to failure of a Covered Part directly causing failure of a non-covered part, where reasonable precautions were taken to mitigate damages.
4. **APPLICATION:** The selling dealer is responsible for designating the correct application and/or specification for a vehicle sold to a customer. Damages due to misapplication, including but not limited to, failures of component parts of vehicles being operated in excess of factory rated load capacities, or the use of a vehicle, component, or part for a purpose for which it was not intended are not covered.
5. **ALTERATIONS:** Any vehicle, component or part repaired, altered, or inspected in any way, so as to adversely affect, in Mack Trucks' sole judgment, its stability, durability, or reliability, is not covered.
6. **NON-ORIGINAL EQUIPMENT:** Any part of the vehicle that fails, malfunctions, or does not perform as a result of improper conversion or installation of bodies or equipment by other manufacturers or suppliers is not covered.
7. **MAINTENANCE AND PARTS CONSUMED:** Maintenance and inspection requirements found in the Operator's Manuals and service manuals/instructions, including, but not limited to, engine tune-up, fuel system cleaning, replacement of lubricants and filter elements, adjustments of the engine injection pump/transmission/brakes/linkages, as well as diagnosis, test time and all other adjustments must be followed and are not covered. Parts which are normally consumed or worn out during the vehicle's normal service life and customarily replaced during usual maintenance service, including, but not limited to, mud flaps and brackets, brake linings, clutch brake, and clutch linings, are not covered.
8. **PERFORMANCE COMPLAINTS:** Performance complaints are not covered (including, but not limited to, low power and/or poor fuel economy). Coverage is limited to defects in material and workmanship of a Covered Part directly causing the performance issue.
9. **WEAROUT:** Mack Trucks does not cover normal wear of Covered Parts. Failures attributable to wear are excluded. For example, and without limitation, the wear rate of parts in any engine or transmission, and especially those parts within the combustion area and clutch housing area, will vary depending upon operating conditions and environment. Conditions, such as load, trailer configuration, road speed and road conditions, as well as the quality of fuel, lubrication oil, and all filters bear a direct relationship to the wear rate and resulting life of parts. Depending upon the severity of these various conditions, parts wear and resulting failure could occur within the time limit of the coverage.
10. **NON-GENUINE PARTS:** Any failure of any vehicle, component or part caused by the use of parts and accessories, or major assemblies and exchange units, which do not meet factory standards is not covered.
11. **ODOMETER READING:** Any vehicle on which the actual mileage or hours cannot readily be determined, or on which the odometer, hour meter, or Electronic Control Unit has been disconnected, disabled, or altered, may not be covered by this warranty.
12. **ACCESS TO INFORMATION:** Owner must allow Mack Trucks full access to all data stored in all Electronic Control Modules; failure to do so may result in the loss of warranty coverage.
13. **LABOR:** Labor to remove and install a Covered Part is included only if a Mack Trucks authorized dealer originally installed the Covered Part. Labor for overtime and/or shift differential is not covered. Excessive labor for a warrantable repair due to the prior installation of equipment or body is not covered.
14. **MISC. EXPENSE:** Meals, lodging, communications charges, travel time and expense, loss of cargo, downtime, loss of profit/revenue, rental vehicles, driver's wages, and other miscellaneous expenses are not covered. Shop supplies, lube oil, lubricants, sealers, anti-freeze, filter elements and labor performed by a non-approved location are not covered.
15. **ADDITIONAL COMPONENTS:** Components or parts that are not installed by Mack Trucks, including winches, power take-offs, dumper, mixer and refuse assemblies, hoists and bodies or other special equipment are not covered. During a warrantable repair, additional time to remove any customer installed components will not be covered under warranty. Mack Trucks' factory manufacturing records will be determinative as to factory installed components.
16. **TOWING:** Unless expressly provided in this Warranty Certificate, expenses for towing or road service are not covered. Failures caused by improper towing technique are not covered.
17. **SUSPENSION PARTS:** Suspension parts, including but not limited to rubber bushings, torque rod bushings, spring pins and bushings, and greased lubrication points that fail due to improper maintenance, abnormally severe service or abuse are not covered.
18. **CAB STRUCTURE AND CORROSION:** Cab structural defects or cab corrosion that occurs in areas of the cab that previously were damaged, repaired, altered, or modified are not covered. Cab corrosion where metal is perforated from the outside to the inside is not covered.
19. **VENDOR ENGINES, ALLISON AUTOMATIC TRANSMISSIONS and ALTERNATE FUEL STORAGE AND DELIVERY SYSTEMS:** Vendor engines, Allison automatic transmissions and alternate fuel (CNG/LNG/DME) fuel storage/delivery components used in Mack trucks are warranted by their respective manufacturers and not by Mack Trucks, Inc. Refer to the manufacturers' warranty statements.
20. **OIL CONSUMPTION:** Before a claim based upon excessive oil consumption will be considered, the owner must provide proof that all recommended maintenance has been performed and submit adequate documentation to show that oil consumption exceeds Mack Trucks' published standards. Under no circumstances will warranty pay for repairs related to excessive oil consumption after the earlier of 24 months, 250,000 miles, or 402,000 kilometers.
21. **ENVIRONMENTAL DAMAGE:** Parts made out of cloth, leather, wood, rubber, synthetics, paint, or chrome which have been affected by exposure to the elements or chemical influence including, but not limited to, road salt/chemicals, industrial fall-out or the use of improper cleaners, polishes and/or waxes are not covered.
22. **ALIGNMENT:** Alignment of axle(s), balance of tires, changing of axle camber, caster, toe and thrust angle are not covered.
23. **GLASS:** Glass breakage and scratches are not covered unless physical proof of manufacturing responsibility is established.
24. **TIRES:** Except as expressly provided in warranty certificates covering Green House Gas (GHG) components, tires are covered only under warranties provided by the tire manufacturer.
25. **CHANGES:** Mack Trucks reserves the right to make any changes in design, or make additions to or upon its products, without incurring any obligations to install the same changes on vehicles previously built.

THIS WARRANTY IS MADE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, REPRESENTATIONS OR CONDITIONS, STATUTORY OR OTHERWISE, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATION OR LIABILITY ON THE PART OF THE MANUFACTURER INCLUDING, WITHOUT LIMITATION OF THE FOREGOING, CONSEQUENTIAL, INDIRECT, AND INCIDENTAL DAMAGES. MANUFACTURER NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF VEHICLES, COMPONENTS OR PARTS.

MACK®

Mack Trucks, Inc.
Post Office Box 26259
8003 Piedmont Triad Parkway
Greensboro, North Carolina 27409

Eaton Warranty Guide TCWY0900 EN-US

October 2025

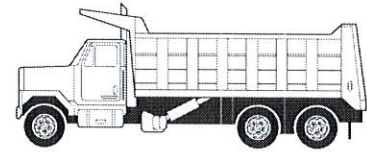


Powering Business Worldwide

BACKED BY

Roadranger

SUPPORT



Construction

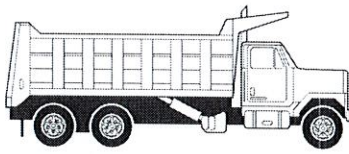
- Movement of material to and from a job site.
- Or vehicles used in transfer / relocation on a maximum grade of 8%, typically greater than 10 miles per trip.
- 90% of loaded operation on road surfaces of concrete, asphalt, gravel, crushed rock or hard packed dirt and up to 10% of loaded operation into sandy or muddy job sites. Vehicles operating less than 90%, refer to Specialized Applications "Off-Highway" coverages.

Typical Vehicle Types

Asphalt Truck	Dump Truck	Roll-off	Tank Truck	Concrete Pumper	Mixer
Block Truck	Flatbed Truck	Snowplow	Utility Truck	Landscape Truck	

Warranty Coverage for Vehicles Meeting Vocation Definitions and Application Guidelines (For U.S. and Canada Only)

Clutches	All Models except UltraShift <i>PLUS</i> and Advantage Series. (Note 2)	Per OEM Standard Chassis Warranty Coverage
	UltraShift <i>PLUS</i> VCS, VMS, VXP, LAS, MHP & MXP, Clutch & Low Capacity Inertia Brake (LCIB) (Note 1)	3 years / Unlimited Mileage
	Advantage Self-Adjust and Easy Pedal Advantage (Notes 1, 5)	2 years / 200,000 Mileage
	Advantage Automated Diaphragm Spring (Endurant) (Note 1)	3 years / 300,000 Mileage (480,000 Km)
Hydraulic Clutch Actuator (Adapter Assembly and Release Fork Assembly)	Assembly	3 years / Unlimited Mileage
Electronic Clutch Actuator	Electronic Clutch Actuator	Same as Transmission Coverage
Transmissions	Models: 7, 9, 10-Speed (Note 1) 1100-1800 lb-ft. 8600/8700 Series [Excludes Fuller UltraShift LST (DM)]	3 years / Unlimited Mileage
	Multispeed: 13, 15, 18, 8LL, MLL, 9ALL (Notes 1, 2) (Excludes Fuller UltraShift LHP)	3 years / Unlimited Mileage
	UltraShift <i>PLUS</i> VCS, VMS, VXP, LAS, MHP & MXP (Note 1)	3 years / Unlimited Mileage
	Fuller Advantage, SmartAdvantage 10C	3 years / Unlimited Mileage
	FS Series, RT-6609A (Notes 3, 4)	2 years / Unlimited Mileage
	Hybrid: (Note 1) EH-8E306A-UP EH-8E406A-UP EH-8FA0806A-UP EH-8E306A-UPG EH-8E406A-UPG EH-6E606B-UPG EH-6E706B-UPG EH-8FA0806A-UPG EH-6FL0806B-UPG	3 years / 150,000 miles (240,000 Km)



Construction

Oil-to-Water Heat Exchangers	All Models (Note 1)	3 years / Unlimited Mileage
Auxiliary Transmission	Models: AT-1202, 2A-92	1 year / Unlimited Mileage

Note 1: All transmission models require the use of a Roadranger approved lubricant. Automated transmissions and transmissions with Purchased Extended Protection Plans must use Roadranger Synthetic Lubricant meeting Eaton PS-386 specification (Refer to Lubrication Manual, TCMT0021.) All transmission and clutch models must meet and have Eaton Engineering Application Approval prior to sale to qualify for any warranty coverage, and then be operated in the approved applications. Those that do not will void their warranty. No blanket approvals are available at this time for UltraShift *PLUS* models and Hybrid Systems.

Note 2: Refer to "Extended Protection Plan Matrix" on www.roadranger.com

Note 3: 1 year/Unlimited for Snow Plows in FS Series.

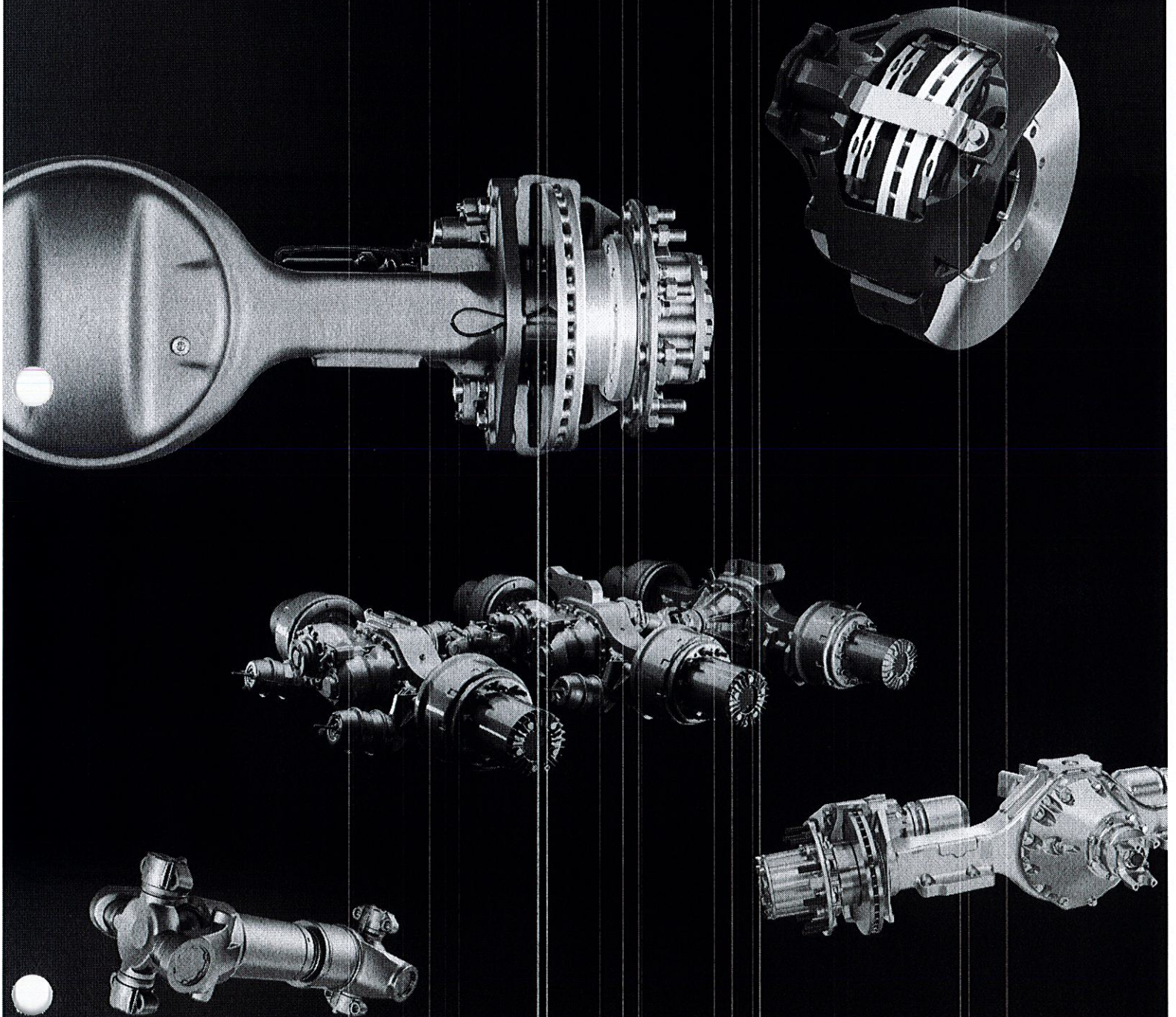
Note 4: FS Series synchronizer wear coverage (synchronizers with Eaton Friction Material) is only available for transmissions that use Eaton approved synthetic lubricant in conjunction with either a Solo Adjustment Free or a 365 MM Clutch (Transmission Robust Package). Without stated package requirements, synchronizer wear is not covered.

Note 5: Eaton highly recommends when a replacement is necessary that a like for like, should be used. Example: Solo Advantage for Solo Advantage.

Note 6: Eaton highly recommends installing a Solo clutch in vehicles with hydraulic release systems for optimal performance, reduced maintenance and increased clutch life.

MERITOR® COMMERCIAL VEHICLE SYSTEMS WARRANTY

MODEL YEAR 2023 VEHICLES



MERITOR
RUN WITH THE BULL

WARRANTY INFORMATION CONTENTS

Effective Model Year 2023 Vehicles

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How to Read Warranty Coverage

Number of Years	Mileage (in thousands) Unl = Unlimited	P = Parts Only P&L = Parts and Labor
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Notice:

Models or components that are approved for use by Meritor's vocational guidelines contained in Meritor Publication TP-9441 for axles, SP-8320 for trailer axles and TP-12126 for drivelines, or any other products that have an application approval completed with Meritor which are not specifically listed, are warranted for one year, unlimited miles, parts only (1/Unl/P).

Products purchased on an incomplete vehicle (glider) are limited to one year, unlimited miles parts only (1/Unl/P).

Advantage Program

Purchasing additional coverage on select components will continue to safeguard your investment against major repair costs after the initial base coverage expires. You can find out more about the Advantage Program by visiting www.meritor.com or by contacting Meritor at **866-OnTrac1 (866-668-7221)**.

LINEHAUL WARRANTY INFORMATION

Linehaul Vehicles

- Auto Hauler
- Bulk Hauler
- Chip Hauler (Truck)¹
- Doubles
- Flatbed
- General Freight
- Grain Hauler
- Livestock Hauler
- Moving Van
- Pipe Hauler
- Refrigerated Freight
- Tanker
- Triples

¹ Chip Hauler vehicles require specific axle models listed below and Linehaul condition to be eligible for Linehaul warranty consideration.

Linehaul Typically Is:

- High mileage operation (over 60,000 miles/year)
- Well maintained major highways of concrete or asphalt construction
- Greater than 30 miles between starting and stopping

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/750/P&L

FD-965	MFS-10-122A	MFS-12-132B-N	MFS-13-132B-N	MFS-14F-122B-N	MFS-14F-132C-N
FF-941	MFS-10-143A-N	MFS-12-132C-N	MFS-13-132C-N	MFS-14G-122B-N	MFS-14G-132C-N
FF-942	MFS-10-144A-N	MFS-12E-132B-N	MFS-13-143A-N	MFS-14-122C-N	MFS-14-142B-N
FF-943	MFS-12-122A-N	MFS-12E-132C-N	MFS-13-144A-N	MFS-14F-122C-N	MFS-14F-142B-N
FF-944	MFS-12-122B-N	MFS-12-143A-N	MFS-13B-122B-N	MFS-14G-122C-N	MFS-14G-142B-N
FF-961	MFS-12-122C-N	MFS-12E-143A-N	MFS-13B-122C-N	MFS-14-124A-N	MFS-14-142C-N
FF-966	MFS-12E-122A-N	MFS-12-144A-N	MFS-13B-132B-N	MFS-14-132B-N	MFS-14F-142C-N
FF-967	MFS-12E-122B-N	MFS-13-122A-N	MFS-13B-132C-N	MFS-14F-132B-N	MFS-14G-142C-N
FG-941	MFS-12E-122C-N	MFS-13-122B-N	MFS-14-122A-N	MFS-14G-132B-N	MFS-14-143A-N
FG-943	MFS-12-124A-N	MFS-13-122C-N	MFS-14-122B-N	MFS-14-132C-N	MFS-14-144A-N

Rear Drive Single Axles – 5/750/P&L

MS-19-14X	MS-23-17H	RS-23-160	RS-23-185
RS-21-160	MS-23-17X	RS-23-161	RS-23-186

Rear Drive Tandem/Tridem Axles – 5/750/P&L

RT-40-160/P ^{1,2}	RT-50-160/P ^{1,2}	MA-40-175	MT-40-14X/P	RZ-166 ²
RT-46-160/P ^{1,2}	MA-40-165	MT-34-14X/P	MT-40-14X/P	RZ-188
RT-46-164/P ^{1,2}	MA-40-17H	MT-40-14T/P	MT-40-14H	

¹ These models required for Chip Hauler and Linehaul warranty consideration.

² Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

Drivelines

RPL	5/500/P, 1/Unl/P&L
MXL	3/350/P, 1/Unl/P&L
155N	1/Unl/P
92N	1/Unl/P

LINEHAUL WARRANTY INFORMATION

Brake Components

Cam Q Series Trailer Brakes	5/500/P, 1/100/L
Q+ Drum Brake™	5/500/P, 1/Unl/P&L
ASA	5/500/P, 1/Unl/P&L
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
STEELite X30 Drum Brake™ ¹	12-Years or Wearable Life/P
EX+ L and EX+LS Air Disc Brake™ ³	5/500/P, 1/Unl/L
EX+L Air Disc Brake Extended Standard Warranty ^{2,3}	5/500/P&L

¹ Based on stamped wear diameter max.

² Applies only to calipers using friction: MA761 (EX225LXXXCDXXX) or MA9300 (EX225LXXXCGXXX).

³ Warranty coverage for boots, seals, caps, bushings and pins is 2/200/P. Warranty coverage for pads is 1/100/P.

Trailer Axles¹

Beam and Brackets	5/500/P, 1/100/L
Wheel End Systems ²	
Standard System ³	1/100/P&L
PreSet by Meritor ⁴	5/500/P&L
AxlePak5	5/Unl/P&L
AxlePak7 ⁵	7/Unl/P&L

¹ For brake components and ABS coverage, refer to appropriate product warranties.

² Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

³ When installed by Meritor.

⁴ Requires approved hubcap stating PreSet by Meritor on hubcap face.

⁵ When specified with AxlePak7 wheel end system, coverage on MTIS thru-tee and stator is 7/Unl/P, 1/Unl/L.

TAG/Pusher Axles¹

TQ, TQD, TR, TRD Beam and Brackets	5/750/P&L
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¹ For brake components and ABS coverage, refer to appropriate product warranties.

Meritor Tire Inflation System

MTIS Components	5/Unl/P, 1/Unl/L
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Trailer Air Suspension Systems

MPA40 (Tandem Axle Parallelogram) ¹	
Major Structural Components	5/500/P, 1/100/L
Curbing Damage Warranty ²	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/Unl/P, 3/Unl/L
PinLoc Air Controls	1/100/P&L
PinLoc Actuator	3/300/P&L

MPA20 (Single Axle Parallelogram)	
Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/Unl/P, 3/Unl/L

MTA and MTA-Tec6 Trailing Arm Suspension System	
Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/500/P, 3/300/L
Shock Absorbers	2/200/P&L
Lift Kit System	1/100/P&L

¹ Fastener torque coverage is limited to 2/Unl/P&L when torqued by Meritor (For axle and ABS coverage, refer to appropriate product warranties.)

² "Curbing damage" is defined as deformation (bending, buckling or breakage), caused by sudden impact with a curb or similar fixed object. Damage to the RideSentry slider box (the suspension sliding subframe, consisting of the frame rails, crossmembers and central A-frame assembly), caused by accidental trailer impact with a curb or similar fixed object, is eligible for warranty coverage. Damage to other components or damage resulting from collision with another vehicle, rollover or fire is not covered under this provision. Warranty is not transferable to another trailer VIN and coverage does not apply if the trailer is deemed to be a total loss, scrapped or otherwise not salvageable.

Trailer Mechanical Suspension Systems¹

IMS40 (Integration Mechanical Suspension) ²	1/Unl/P&L
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¹ For axle coverage, refer to appropriate product warranties.

² All other suspension components refer to appropriate manufacturer's warranty.

GENERAL SERVICE WARRANTY INFORMATION

General Service Vehicles

- | | | | |
|-----------------------------------|-------------------------------|------------------------------|------------------------|
| ■ Auto Hauler | ■ Front Engine Integral Coach | ■ Municipal Truck | ■ Refrigerated Freight |
| ■ Beverage Truck | ■ General Freight | ■ Newspaper Delivery | ■ School Bus |
| ■ Chip Hauler | ■ Intercity Coach | ■ Pick-Up and Delivery | ■ Stake Truck |
| ■ Cross Country Coach | ■ Intermodal Chassis | ■ Pipe Hauler | ■ Tanker |
| ■ Flatbed | ■ Livestock Hauler | ■ Platform Auto Hauler | ■ Tanker Trailer |
| ■ Front Engine Commercial Chassis | ■ Meat Packer | ■ Rear Engine Integral Coach | ■ Tour Bus |
| | ■ Moving Van | ■ Recreational Vehicles | ■ Wrecker |

General Service Typically Is:

- Lower mileage operations (less than 60,000 miles/year)
- Generally, on-road service (less than 10 percent off-road)
- An average of three (3) miles between starting and stopping

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 2/Unl/P&L

FD-965	MFS-6-162B-N	MFS-12E-122B-N	MFS-13-132B-N	MFS-14G-132B-N	MFS-18-133A-N
FF-941	MFS-6-153C-N	MFS-12-122C-N	MFS-13-132C-N	MFS-14-132C-N	MFS-18-135A-N
FF-942	MFS-6-162C-N	MFS-12E-122C-N	MFS-13B-132B-N	MFS-14F-132C-N	MFS-18-193A-N
FF-943	MFS-7-113C-N	MFS-12-124A-N	MFS-13B-132C-N	MFS-14G-132C-N	MFS-20-133A-N
FF-944	MFS-7-153C-N	MFS-12-132B-N	MFS-13-143A-N	MFS-14-142B-N	MFS-20-135A-N
FF-946	MFS-7-163C-N	MFS-12E-132B-N	MFS-13-144A-N	MFS-14F-142B-N	MFS-20-192A-N
FF-961	MFS-8-113B-N	MFS-12-132C-N	MFS-14-122A-N	MFS-14G-142B-N	MFS-20-193A-N
FF-966	MFS-8-143A-N	MFS-12E-132C-N	MFS-14-122B-N	MFS-14-142C-N	MFS-22-135A-N
FF-967	MFS-8-153B-N	MFS-12-143A-N	MFS-14F-122B-N	MFS-14F-142C-N	MFS-22H-135A-N
FG-941	MFS-8-163B-N	MFS-12-144A-N	MFS-14G-122B-N	MFS-14G-142C-N	MFS-22-193A-N
FH-941	MFS-10-122A	MFS-12E-143A-N	MFS-14-122C-N	MFS-14-143A-N	MFS-22H-193A-N
FH-946 ¹	MFS-10-143A-N	MFS-13-122A-N	MFS-14F-122C-N	MFS-14-144A-N	
FL-941	MFS-10-144A-N	MFS-13-122B-N	MFS-14G-122C-N	MFS-16-122A-N	
FL-943	MFS-12-122A-N	MFS-13B-122B-N	MFS-14-124A-N	MFS-16-133A-N	
MFS-6-151A-N	MFS-12E-122A-N	MFS-13-122C-N	MFS-14-132B-N	MFS-16-135A-N	
MFS-6-153B-N	MFS-12-122B-N	MFS-13B-122C-N	MFS-14F-132B-N	MFS-16-143A-N	

¹ Can also be used with reduced steer angles in tag position in Coach applications.

Rear Drive Single Axles – 2/Unl/P&L

MS-17-13X	RS-21-160	RS-23-185	RS-30-185
MS-17-14X	RC-23-160	RS-23-186	MS-30-616
MS-19-13X	RC-23-161	RS-24-160	MS-30-616-SP
MS-19-14X	RC-23-162 ¹	RC-25-160	RS-35-380
MS-21-13X	RC-23-165 ¹	RS-26-185	
MS-21-14X	RS-23-160	MS-26-616	
MS-23-17X	RS-23-161	MS-26-616-SP	

¹ 3/Unl/P&L if PreSet by Meritor.

GENERAL SERVICE WARRANTY INFORMATION

Rear Drive Tandem/Tridem Axles – 2/Unl/P&L

MT-34-14X/P	MT-40-14X/P	MT-44-14X/P	MT-52-616	MT-58-616	MT-70-380
MT-40-14T/P	MT-40-14H	RT-46-169	RT-52-185 ¹	RT-58-185 ¹	RZ-188

¹ Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

Rear Drive Tandem/Tridem – 3/Unl/P&L

RT-40-160/P	RT-46-160/P	RT-46-164/P	RT-50-160/P	RZ-166
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Rear Drive Axles – 1/Unl/P&L

RND-14H	RND-16A
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Drivelines

RPL	4/400/P, 1/Unl/P&L
MXL	3/350/P, 1/Unl/P&L
155N	1/Unl/P
92N	1/Unl/P

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

GENERAL SERVICE WARRANTY INFORMATION

Brake Components

Cam Q Series Trailer Brakes	3/Unl/P, 1/Unl/L
Cam P ²	2/200/P
Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
Q+ Drum Brake™ ²	2/200/P&L
ASA	3/Unl/P
ASA ²	2/200/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
STEELite X30 Drum Brake™ ¹	12-Years or Wearable Life/P
EX+ Air Disc Brake™ ³	2/Unl/P&L

¹ Based on stamped wear diameter max.

² Applies to Tour Bus and Cross Country Coach only.

³ Warranty coverage for boots, seals, caps, bushings and pins is 2/200/P.
Warranty coverage for pads is 1/100/P.

Trailer Axles¹

Beam and Brackets ²	5/Unl/P, 1/Unl/L
TPX4000 Axle Series ³	10/Unl/P, 1/Unl/L
Wheel End Systems ⁴	
Standard System ⁵	1/Unl/P&L
AxlePak5	5/Unl/P&L
AxlePak7 ⁶	7/Unl/P&L
AxlePak10 ⁷	10/Unl/P&L

¹ For brake components and ABS coverage, refer to appropriate product warranties.

² 9000 Series is 3/Unl/P, 1/Unl/L

³ Structural components only excluding spindle wear. Spindle wear 5/Unl/P, 1/Unl/L.

⁴ Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

⁵ When installed by Meritor.

⁶ When specified with AxlePak7 wheel end system, coverage on MTIS thru-tee and stator is 7/Unl/P, 1/Unl/L.

⁷ AxlePak10 is limited to Intermodal Chassis applications equipped with TPX4000 series axles.

TAG/Pusher Axles¹

TQ, TQD, TR, TRD Beam and Brackets	3/Unl/P, 1/Unl/L
MC14002, MC16003, FH946 ²	2/Unl/P&L

¹ For brake components coverage, refer to appropriate product warranties.

² 3/Unl/P&L if sold with PreSet by Meritor.

Trailer Air Suspension Systems¹

MPA40 (Tandem Axle Parallelogram) ²	
Major Structural Components	5/Unl/P, 1/Unl/L
Curbing Damage Warranty ³	5/500/P, 1/100/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings	5/P, 3/L
PinLoc Air Controls	1/Unl/P&L
PinLoc Actuator	3/Unl/P&L
MPA20 (Single Axle Parallelogram)	
Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs and Rebound Straps	2/Unl/P, 1/Unl/L
Bushings	5/P, 3/L
MTA and MTA-Tec6 Trailing Arm Suspension System	
Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings ⁴	5/Unl/P, 3/Unl/L
Shock Absorbers	2/Unl/P&L
Lift Kit System	1/Unl/P&L

¹ For axle coverage, refer to appropriate product warranties.

² Fastener torque coverage is limited to 2/Unl/P&L when torqued by Meritor

³ "Curbing damage" is defined as deformation (bending, buckling or breakage), caused by sudden impact with a curb or similar fixed object. Damage to the RideSentry slider box (the suspension sliding subframe, consisting of the frame rails, crossmembers and central A-frame assembly), caused by accidental trailer impact with a curb or similar fixed object, is eligible for warranty coverage. Damage to other components or damage resulting from collision with another vehicle, rollover or fire is not covered under this provision. Warranty is not transferable to another trailer VIN and coverage does not apply if the trailer is deemed to be a total loss, scrapped or otherwise not salvageable.

⁴ Raw wood applications 3/Unl/P, 1/Unl/L.

Trailer Mechanical Suspension Systems¹

IMS40 (Integration Mechanical Suspension) ²	1/Unl/P&L
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¹ For axle coverage, refer to appropriate product warranties.

² All other suspension components refer to appropriate manufacturer's warranty.

Meritor Tire Inflation System (MTIS)

MTIS Components	5/Unl/P, 1/Unl/L
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HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Heavy Service/Specialty Vehicles

- Airport Rescue Fire Fighting (ARFF)
- Airport Shuttle¹
- Asphalt Truck
- Block Truck
- Bottom Dump Trailer Combination
- Cementing Vehicle
- Commercial Pick-Up
- Concrete Pumper
- Construction Material Hauler
- Mixer
- Demolition
- Drill Rig
- Dump
- Equipment Hauling
- Flatbed Trailer Hauler
- Flatbed Truck
- Fracturing Truck
- Front Loader
- Geophysical Exploration
- Hopper Trailer Combinations
- Landscaping Truck
- Liquid Waste Hauler
- Log Hauling
- Lowboy
- Michigan Special Gravel Train
- Michigan Special Log Hauler
- Michigan Special Steel Hauler
- Michigan Special Waste Vehicle
- Municipal Dump
- Rear Loader (Refuse)
- Recycling Truck
- Residential Pick-Up (Refuse)
- Rigging Truck
- Roll-Off
- Scrap Truck
- Semi-End Dump
- Sewer/Septic Vacuum
- Shuttle Bus¹
- Side Loader
- Snowplow/Snowblower
- Steel Hauling
- Tanker
- Tank Truck
- Tractors with Pole Trailers
- Tractor/Trailer with Jeeps
- Transfer Dump
- Transfer Vehicle
- Utility Truck
- Winch Truck

¹ Commercial chassis only

Heavy Service/Specialty Vehicle Typically Is:

- Moderate mileage operation (less than 60,000 miles per year)
- On/off-road vocations (10 percent or more off-road)
- Moderate to frequent stops/starts (up to 10 stops per mile)
- An average of three (3) miles between starting and stopping

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 2/Unl/P&L

FD-965	MFS-6-153B	MFS-12-122C-N	MFS-13B-132B-N	MFS-14G-132B-N	MFS-18-133A-N
FF-941	MFS-6-162B	MFS-12E-122C-N	MFS-13-132C-N	MFS-14-132C-N	MFS-18-135A-N
FF-942	MFS-6-162C	MFS-12-124A-N	MFS-13B-132C-N	MFS-14F-132C-N	MFS-18-192A-N
FF-943	MFS-7-113C-N	MFS-12-132B-N	MFS-13-143A-N	MFS-14G-132C-N	MFS-18-193A-N
FF-944	MFS-7-153C-N	MFS-12E-132B-N	MFS-13-144A-N	MFS-14-142B-N	MFS-20-133A-N
FF-946	MFS-7-163C-N	MFS-12-132C-N	MFS-13-155	MFS-14F-142B-N	MFS-20-135A-N
FF-961	MFS-8-113B-N	MFS-12E-132C-N	MFS-14-122	MFS-14G-142B-N	MFS-20-192A-N
FF-966	MFS-8-153B-N	MFS-12-143A-N	MFS-14-122B-N	MFS-14-142C-N	MFS-20-193A-N
FF-967	MFS-8-163B-N	MFS-12-144A-N	MFS-14F-122B-N	MFS-14F-142C-N	MFS-22-135A-N
FG-941	MFS-10-122A	MFS-12-155	MFS-14G-122B-N	MFS-14G-142C-N	MFS-22H-135A-N
FG-943	MFS-10-143A-N	MFS-13-122	MFS-14-122C-N	MFS-14-143A-N	MFS-22-193A-N
FH-941	MFS-10-144A-N	MFS-13-122B-N	MFS-14F-122C-N	MFS-14-144A-N	MFS-22H-193A-N
FH-946	MFS-12-122	MFS-13B-122B-N	MFS-14G-122C-N	MFS-16-122A-N	RF-16-145
FL-941	MFS-12E-122	MFS-13-122C-N	MFS-14-124A-N	MFS-16-133A-N	RF-21-160
FL-943	MFS-12-122B-N	MFS-13B-122C-N	MFS-14-132B-N	MFS-16-135A-N	
MFS-6-151A-N	MFS-12E-122B-N	MFS-13-132B-N	MFS-14F-132B-N	MFS-16-143A-N	

Front Drive Steer Axles – 2/Unl/P&L

MX-10-120	MX-12-120 EVO				
MX-10-120 EVO	MX-14-120	MX-16-120	MX-17-140	MX-21-140	MX-23-160
MX-12-120	MX-14-120 EVO	MX-18-120	MX-19-140	MX-21-160	MX-23-810

HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Front Drive Steer Axles – 1/Unl/P&L

MX-08-130-FV (FSD-08A)	MX-14-130-FV (FSD-14A)	MX-20-130-FV (FSD-20A)	MX-23-130-FV (FSD-23A)
MX-10-130-FV (FSD-10A)	MX-16-130-FV (FSD-16A)	MX-21-130-FV (FSD-21A)	MX-23-130-SD (SDA-2300)
MX-12-130-FV (FSD-12A)	MX-18-130-FV (FSD-18A)	MX-21-130-SD (SDA-2100)	MX-29-130-FV (FSD-29A)
MX-13-130-FV (FSD-13A)	MX-18-130-SD (SDA-1800)		

Rear Drive Axles – 2/Unl/P&L

MS-17-14X	RH-23-160	RS-23-186/380	MS-26-616-SP	RS-30-185/380
MS-19-14X	RS-23-160	RS-24-160	RS-26-185/380	MS-35-380
MS-21-14X	RC-23-161	RC-25-160	RC-26-633	RS-38-380
RS-21-160	RS-23-161	RS-25-160	MS-30-616	MT-58-616
RC-23-160	RS-23-185	MS-26-616	MS-30-616-SP	MT-58-616-SP

Rear Drive Axles – 1/Unl/P&L

RND-14H	RND-16A
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Drivelines

RPL	3/Unl/P, 1/Unl/P&L
92N	1/Unl/P&L
MXL	1/Unl/P&L

Transmission – 1/Unl/P&L

FAT 30

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

Rear Drive Tandem/Tridem Axles – 2/Unl/P&L

MT-34-14X/P	MT-44-14X/P	MT-52-616	MT-58-616	RT-70-380
MT-40-14T/P	RT-46-169	MT-52-616-SP	MT-58-616-SP	MT-70-380
MT-40-14X/P	RT-58-160	RT-52-185/380 ^{1,2}	RT-58-185/380 ^{1,2}	RZ-188

¹ Axle model designated will vary according to options and variations specified on these axles. Contact Meritor Axle Applications Engineering for details.

² Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

Rear Drive Tandem/Tridem – 3/Unl/P&L

RT-40-160/P/A ³	RT-46-160/P/A ^{1,3}	RT-46-164/P ^{2,3}	RT-50-160/P/A ³	RZ-166
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¹ U.S. only. Canadian warranty = 1/Unl/P for combination vehicles only.

² Axle model designated will vary according to options and variations specified on these axles. Contact Meritor Axle Applications Engineering for details.

³ Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Brake Components

Cam P	3/Unl/P
Cam P	2/100/P
Cam Cast Plus™	2/100/P&L
Q+ Drum Brake™	3/Unl/P&L
Q+ Drum Brake™ ²	2/100/P&L
ASA	3/Unl/P
ASA ²	2/100/P
Hubs/Cast Drums and Other Wheel-End Components ¹	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake ³	2/100/P&L

¹ Based on stamped wear diameter max.

² Applies to City Bus, Trolley, Shuttle Bus and Airport Shuttle only.

³ Warranty coverage for boots, seals, caps, bushings and pins is 2/100/P.
Warranty coverage for pads is 1/100/P.

Trailer Axles¹

Beam and Brackets ²	5/Unl/P, 1/Unl/L
Wheel End Systems ³	
Standard System ⁴	1/Unl/P&L

¹ For brake components coverage, refer to appropriate product warranties.

² 9000 Series is 3/Unl/P, 1/Unl/L

³ Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

⁴ When installed by Meritor.

Gearboxes – 1/Unl/P&L

MGX-402	MGX-450	MGX-466	MGX-538
MGX-423	MGX-451	MGX-479	

Transfer Cases – 1/Unl/P

MTC-2212-CV (306)	MTC-3118-CV (358)	MTC-3206-CS (544)	MTC-4206-FV (TC-38)
MTC-3106-FV (TC-137)	MTC-3120-FV (TC-143)	MTC-3208-GV (RTC-50)	MTC-4208
MTC-3111 (T-2111)	MTC-3124 (T-2119)	MTC-3209-GV (MTC-60/RTC-60)	MTC-4210
MTC-3112-CV (548C)	MTC-3203	MTC-3212-CV (315 and 548B)	MTC-4213
MTC-3116 (T-2111 through-shaft)	MTC-3205-GV (MTC-25/RTC-25)	MTC-3312-FV (TC-270)	
MTC-3118-FV (TC-180 and TC-180-23)	MTC-3206-FV (TC-237)	MTC-3220-FC (TC-142)	

Trailer Air Suspension Systems¹

MTA and MTA-Tec6 Trailing Arm Suspension System	
Major Structural Components ²	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Air Springs	2/200/P, 1/100/L
Bushings ²	5/500/P, 3/300/L
Shock Absorbers	2/200/P&L
Lift Kit System	1/100/P&L

¹ For axle coverage, refer to appropriate product warranties.

² Raw wood applications 3/Unl/P, 1/Unl/L

Meritor Tire Inflation System (MTIS)

MTIS Components	5/Unl/P, 1/Unl/L
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FIRE AND EMERGENCY WARRANTY INFORMATION

Fire and Emergency Vehicles

- Aerial Ladder Truck
- Aerial Platform
- Ambulance
- Command Vehicle
- Crash Fire Rescue (CFR)
- Pumper
- Rapid Intervention Vehicle (RIV)
- Tanker

Fire and Emergency Typically Is:

- Lower mileage operations (less than 20,000 miles/year)
- Generally, on-road service (less than 10 percent off-road)
- An average of three (3) miles between starting and stopping

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, TP-12126 for drivelines and/or contact Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/Unl/P&L

FL-941	MFS-18-133A-N	MFS-18-193A-N	MFS-20-135A-N	MFS-22-135A-N	MFS-22-193A-N
FL-943	MFS-18-135A-N	MFS-20-133A-N	MFS-20-193A-N	MFS-22H-135A-N	MFS-22H-193A-N

Front Drive Steer Axles – 2/Unl/P&L

MX-19-140	MX-21-140	MX-21-160	MX-23-160	MX-23-810
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Rear Drive Single Axles – 5/Unl/P&L

RC-23-160	RS-23-161	RS-23-186	RC-25-160	RS-30-185	RS-25-160
RS-23-160	RS-23-185	RS-24-160	RS-26-185	RS-35-185 ¹	

¹ 2/Unl/P&L if PreSet by Meritor.

Rear Drive Tandem/Tridem Axles – 5/Unl/P&L

MT-40-14X/P	MT-44-14X/P	RT-46-164/P	RT-50-160/P	RT-52-185 ¹	RT-58-185 ¹
RT-40-160/P	RT-46-160/P	RT-46-169	MT-52-616	MT-58-616	MT-70-380 ²

¹ Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

² 2/Unl/P&L

Brake Components

Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
ASA	3/Unl/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake™ ¹	2/Unl/P&L

¹ Warranty coverage for boots, seals, caps, bushings and pins is 2/200/P.

Warranty coverage for pads is 1/100/P.

Drivelines

RPL	4/400/P, 1/Unl/L
MXL	3/350/P, 1/Unl/L
155N	1/Unl/P
92N	1/Unl/P

FIRE AND EMERGENCY WARRANTY INFORMATION

Transfer Cases – 1/Unl/P

MTC-2212-CV (306)
MTC-3106-FV (TC-137)
MTC-3111 (T-2111 through-shaft)
MTC-3112-CV (548C)
MTC-3118-FV (TC-180 and TC-180-23)

MTC-3118-CV (358)
MTC-3120-FV (TC-143)
MTC-3124 (T-2119)
MTC-3206-FV (TC-237)
MTC-3206-CS (544)

MTC-3208-GV (RTC-50)
MTC-3209-GV (MTC-60/RTC-60)
MTC-3212-CV (315 and 548B)
MTC-3312-FV (TC-270)
MTC-3220-FC (TC-142)

MTC-4206-FV (TC-38)
MTC-4208
MTC-4210
MTC-4213

PTO – 1/Unl/P&L

MPT-170
MPT-180

MPT-185
MPT-309

MPT-500
MPT-518

MPT-1702

TRANSIT BUS WARRANTY INFORMATION

Transit Bus Vehicles

- Airport Shuttle ▪ Commuter Coach ▪ Transit Bus ▪ Trolley
- City Bus ▪ Shuttle Bus

Transit Bus Typically Is:

- Moderate mileage operation (less than 50,000 miles per year)
- Moderate to frequent stops/starts (up to 10 stops per mile)

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, TP-12126 for drivelines and/or contact Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/300/P&L

FH-946	FH-941 ¹	MFS-12-155	MFS-13-155
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¹ Commuter coach only – 2/Unl/P&L

Rear Drive Single Axles – 5/300/P&L

RS-23-160	71163	79163	RC-23-162 ¹	RC-23-165 ¹	RS-21-160
RC-23-161					

¹ Commuter coach only – 2/Unl/P&L

Tag Axles – 2/Unl/P&L

MC-14002	MC-16003	FH-946
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Center Non-drive Axles – 5/300/P&L

MC-26000	71063	79063
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Gearboxes – 1/Unl/P&L

MGX-450	MGX-451	MGX-538
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Brake Components

Cam Cast Plus™	2/100/P&L
Q+ Drum Brake™ ¹	2/100/P&L
ASA ¹	2/100/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake ²	2/100/P&L

¹ Applies to City Bus, Trolley, Shuttle Bus and Airport Shuttle only.

² Warranty coverage for boots, seals, caps, bushings and pins is 2/100/P.

Warranty coverage for pads is 1/100/P.

Drivelines

RPL	3/Unl/P, 1/Unl/L
92N	1/Unl/P&L
MXL	1/Unl/P&L

OFF-HIGHWAY SERVICE WARRANTY INFORMATION

Industrial and Off-Highway Service Vehicles

- | | | | |
|-----------------------|--------------------------------|--------------------------|---------------------------------|
| ▪ Load-On/Load-Off | ▪ Trailer Spotter | ▪ Specialized Heavy Haul | ▪ Mining and Specialized Mining |
| ▪ Port Tractor | ▪ Yard Jockey | ▪ Excavator | ▪ Rail Car Mover |
| ▪ Rail Yard Spotter | ▪ All and Rough Terrain Cranes | ▪ Compactor | ▪ Loader |
| ▪ Roll-On/Roll-Off | ▪ Forestry | ▪ Fertilizer Spreader | ▪ Tow Tractor |
| ▪ Stevedoring Tractor | ▪ Material Handling | ▪ Snow Blower | ▪ Pushback Tractor |

Industrial and Off-Highway Service Typically Is:

- Low mileage operation
- Low speed vehicle speed restriction
- Vehicles are not typically licensed for highway use
- Six (6) starts/stops per mile (typical)

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Contact Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 1/Unl/P

FF - 941	FG - 941	FN - 951	MFS-20-192A-N	MFS-22-193A-N
FF - 943	FG - 943	FS-25	MFS-20-193A-N	MFS-22H-193A-N
FF - 961	FL - 941	MFS-20-133A-N	MFS-22-135A-N	MON-ZO FAMILY
FF - 966	FL - 943	MFS-20-135A-N	MFS-22H-135A-N	

Rear Drive Axles – 1/Unl/P

MT-14X ¹	RS-23-186	RS-23-380	RS-24-160	RS-30-185	RS-30-380	RT-145 ¹	RT-160 ¹
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¹ 2/Unl/P for LO/LO Terminal Tractor applications

Planetary Axles – 1/Unl/P

MOB	MOE	MOH	MOT	MOY
MOC	MOF	MOR	MOX	MOZ
MOD	MOG	MOS		

Gearboxes – 1/Unl/P&L

MGX-402	MGX-450	MGX-466	MGX-538
MGX-423	MGX-451	MGX-479	

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

Transfer Cases – 1/Unl/P

MTC-2212-CV (306)	MTC-3116 (T-2111)	MTC-3124 (T-2119)	MTC-3209-GV (MTC-60/RTC-60)
MTC-3106-FV (TC-137)	MTC-3118-FV (TC-180 and TC-180-23)	MTC-3206-FV (TC-237)	MTC-3220-FC (TC-142)
MTC-3111 (T-2111 through-shaft)	MTC-3118-CV (358)	MTC-3208-GV (RTC-50)	
MTC-3112-CV (548C)	MTC-3120-FV (TC-143)		

OFF-HIGHWAY SERVICE WARRANTY INFORMATION

Brake Components

Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
ASA	3/Unl/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P

Drivelines – 1/Unl/P

RPL	MXL
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Transmission – 1/Unl/P&L

FAT 30

TERMS AND CONDITIONS

Coverage Exclusions

Product Description

All

The cost of any repairs, replacements or adjustments to a covered component (1) associated with noise; (2) resulting from the use or installation of non-genuine Meritor components or materials; (3) due to vibration associated with improper operation or misapplication of drivetrain components; and (4) damage resulting from corrosion.

For axle assemblies supplied by Meritor with suspension and interface brackets designed and/or attached by non-Meritor parties, Meritor warranty coverage does not apply to the brackets, bracket attachment methods and field issues caused by brackets or bracket attachments to any covered component unless specified in a separate OEM agreement.

Front Axles¹

Linehaul — King Pin Bushings 1yr/UNL P&L

All Other Vocations — King Pin Bushings Excluded

¹ King Pin Bushing wear excluded for all vocations.

Rear Axles

Self-contained traction equalizers and oil filters. The use of NoSPIN differentials will result in the exclusion of axle shafts from warranty considerations. NoSPIN is a product of Eaton.

ASA

Boot and bushing. Bent, broken, over-torqued, missing or otherwise damaged pawl assemblies.

Cam Brake

Brake lining wear and brake shoe "rust-jacking."

Disc Brake

Pad wear, rotor wear.

Coverage Limitations

Product Description

All

Any claim beyond 60 days from date of repair will not be accepted or honored under this warranty program. Products purchased on an incomplete vehicle (glider) are limited to one year, unlimited miles parts only (1/Unl/P).

Front Axles

Tie rod and tie rod ends limited to 3-year/300,000-mile or published vocational coverage, whichever is less. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by Meritor.

Rear Axles

Pinion and through shaft seals limited to 3-year/300,000-mile or published vocational coverage, whichever is less, if yoke is installed by Meritor. If yoke is not installed by Meritor, then Meritor does not warrant pinion seals. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by Meritor.

Rear Axles

The Meritor breather part number A-2297-C-8765 with A-3196-J-1336 hose must be used for eligibility of any potential warranty consideration relating to contamination and/or loss of lube in axles.

Cam Brake

Limited to bracket, brake spider and camshaft structural integrity.

STEELite X30

Wearable life is up to the discard diameter of the drum.

Disc Brake

Warranty coverage on vehicles with 1,850 lb-ft engine torque and over may be reduced on individual drivetrain components. Contact your Meritor representative for specific details.

TERMS AND CONDITIONS

(1) What is Covered by this Commercial Warranty?

Meritor Heavy Vehicle Systems, LLC warrants to the owner ("Owner") that the components listed in this publication, which have been installed by an Original Equipment Manufacturer ("OEM") as original equipment in vehicles licensed for on-highway use, will be free from defects in material and workmanship. This warranty coverage begins only after the expiration of the OEM's vehicle warranty for the applicable covered components. Warranty coverage ends at the expiration of the applicable time period from the date of vehicle purchase by the first Owner or the applicable mileage limitation, whichever occurs first. Duration of coverage varies by component and vocation as detailed elsewhere in this warranty statement.

Some components are warranted for parts only and the Owner must pay any labor costs associated with the repair or replacement of the component. Other components are warranted for both parts and reasonable labor to repair or replace the subject component. Components (whether new, used or remanufactured) installed as replacements under this warranty are warranted only for the remainder of the original period of time or mileage under the original warranty.

For certain components, coverage requires the use of specific extended drain interval or synthetic lubricants. For further information about lubrication and maintenance, see Meritor publication Maintenance Manual Number I and the applicable Meritor maintenance manual for the product in question. Other conditions and limitations applicable to this warranty are detailed below.

(2) Designation of Vocational Use Required.

To obtain warranty coverage, each Owner must notify Meritor through the OEM new truck and/or trailer dealer of the intended vocational use of the vehicle into which the Meritor components have been incorporated prior to the vehicle in-service date. This notification may be accomplished by registering the vehicle through your OEM new truck and/or trailer dealer or with Meritor directly. Failure to notify Meritor of (I) the intended vocational use of the vehicle or (II) a change in vocational use from that which was originally designated, will result in the application of a one year, unlimited mileage, parts only warranty (1/Unl/P) from the initial in-service date.

A second Owner and each subsequent Owner must also notify Meritor as to the intended vocational use of the vehicle. This notification can be sent directly to Meritor or through the OEM new truck and/or trailer dealer. The duration and mileage coverage of this warranty cannot exceed the coverage extended to the first Owner after his or her initial designation of vocational use.

Coverage under Meritor's warranty requires that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Meritor regarding specific application approval questions on any product line.

(3) What is the Cost of this Warranty?

There is no charge to the Owner for this warranty.

(4) What is not Covered by this Warranty?

This warranty does not cover normal wear and tear; nor does it cover a component that fails, malfunctions or is damaged as a result of (I) improper installation, adjustment, repair or modification (including the use of unauthorized attachments or changes or modification in the vehicle's configuration, usage or vocation from that which was originally approved by Meritor), (II) accident, natural disaster, abuse or improper use (including loading beyond the specified maximum vehicle weight or altering engine power settings to exceed the axle and/or driveline capacity) or (III) improper or insufficient maintenance (including deviation from approved lubricants, change intervals or lube levels). This warranty does not cover any component or part that is not branded by Meritor. For vehicles that operate full or part time outside of the United States and Canada, a one year, unlimited mileage, parts only warranty (1/Unl/P) will apply.

(5) Remedy.

The exclusive remedy under this warranty shall be the repair or replacement of the defective component at Meritor's option. Meritor reserves the right to require that all applicable failed materials are available and/or returned to Meritor for review and evaluation.

(6) Disclaimer of Warranty.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESSED, IMPLIED OR STATUTORY INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

(7) Limitation of Remedies.

In no event shall Meritor be liable for special, incidental, indirect or consequential damages of any kind or under any legal theory, including, but not limited to, towing, downtime, lost productivity, cargo damage, taxes or any other losses or costs resulting from a defective covered component.

(8) To Obtain Service.

If the Owner discovers within the applicable coverage period a defect in material or workmanship, the Owner must promptly give notice to either Meritor or the dealer from which the vehicle was purchased. To obtain service, the vehicle must be taken to any participating OEM new truck and/or trailer dealer or authorized Meritor service location. The dealer will inspect the vehicle and contact Meritor for an evaluation of the claim. When authorized by Meritor, the dealer will repair or replace during the term of this warranty any defective Meritor component covered by this warranty.

(9) Entire Agreement.

This is the entire agreement between Meritor and the Owner about warranty and no Meritor employee or dealer is authorized to make any additional warranty on behalf of Meritor. This agreement allocates the responsibilities for component failure between Meritor and the Owner.

Product models, brands, names and trademarks depicted herein are the property of their respective owners and, except where otherwise indicated, are not in any way associated with Meritor Heavy Vehicle Systems, LLC, or any parent or affiliate, thereof.



Meritor Heavy Vehicle Systems, LLC
2135 West Maple Road
Troy, Michigan 48084 USA

Call 1-866-668-7221
or visit meritor.com

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Litho in USA, SP-95155
Revised 2/24

DEALER BUSINESS LICENSE

2026

Master Dealer License

Regulatory License

2026

TITLE 40, CHAPTER 12, ARTICLE 8, CODE OF ALABAMA 1975

Alabama Department of Revenue

Motor Vehicle

P.O. BOX 327643, MONTGOMERY, AL 36132-7643

Issued To:

NEXTRAN CORPORATION

DBA:

NEXTRAN TRUCK CENTER BIRMINGHAM

License Number:

010207600

Effective Date:

October 01, 2025

Expiration Date:

September 30, 2026

Mailing Business Location:

PO BOX 820 FULTONDALE AL 35068-0820

Primary Business Location:

1801 FULTON ROAD FULTONDALE AL
35068

Secondary Business Location:

This is a regulatory license and is not transferable or refundable. This license should be presented to the privilege license issuing officer at the County Courthouse in the county where your business is located in order to secure the State and County Privilege under Code Section 40-12-51 Automobile Dealer.

E-VERIFY



Company ID Number: 1250269



Client Company ID Number: 1864056

**THE E-VERIFY
MEMORANDUM OF UNDERSTANDING
FOR EMPLOYERS USING A WEB SERVICES E-VERIFY EMPLOYER AGENT**

**ARTICLE I
PURPOSE AND AUTHORITY**

The parties to this agreement are the Department of Homeland Security (DHS), the Nextran Corp (Employer), and the Web Services E-Verify Employer Agent. The purpose of this agreement is to set forth terms and conditions which the Employer and the Web Services E-Verify Employer Agent will follow while participating in E-Verify.

E-Verify is a program that electronically confirms an employee's eligibility to work in the United States after completion of Form I-9, Employment Eligibility Verification (Form I-9). This Memorandum of Understanding (MOU) explains certain features of the E-Verify program and describes specific responsibilities of the Employer, the E-Verify Employer Agent, the Social Security Administration (SSA), and DHS.

References in this MOU to the Employer include the Web Services E-Verify Employer Agent when acting on behalf of the Employer.

For purposes of this MOU, the E-Verify browser refers to the website that provides direct access to the E-Verify system: <https://E-Verify.uscis.gov/emp/>. You may access E-Verify directly free of charge via the E-Verify browser.

Authority for the E-Verify program is found in Title IV, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Pub. L. 104-208, 110 Stat. 3009, as amended (8 U.S.C. § 1324a note). The Federal Acquisition Regulation (FAR) Subpart 22.18, "Employment Eligibility Verification" and Executive Order 12989, as amended, provide authority for Federal contractors and subcontractors (Federal contractor) to use E-Verify to verify the employment eligibility of certain employees working on Federal contracts.

**ARTICLE II
RESPONSIBILITIES**

A. RESPONSIBILITIES OF THE EMPLOYER

For purposes of this MOU, references to the Employer include the Web Services E-Verify Employer Agent when acting on behalf of the Employer.

1. By enrolling in E-Verify and signing the applicable MOU, the Employer asserts that it is a legitimate company which intends to use E-Verify for legitimate purposes only and in accordance with the laws, regulations and DHS policies and procedures relating to the use of E-Verify.



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2. The Employer agrees to display the following notices supplied by DHS (though the Web Services E-Verify Employer Agent) in a prominent place that is clearly visible to prospective employees and all employees who are to be verified through the system:

- a. Notice of E-Verify Participation
- b. Notice of Right to Work

3. The Employer agrees to provide to the SSA and DHS the names, titles, addresses, and telephone numbers of the Employer representatives to be contacted about E-Verify. The Employer also agrees to keep such information current by providing updated information to SSA and DHS whenever the representatives' contact information changes.

4. The Employer agrees to become familiar with and comply with the most recent version of the

E-Verify User Manual. The Employer will obtain the E-Verify User Manual from the Web Services E-Verify Employer Agent, and will be notified by the Web Services E-Verify Employer Agent when a new version of the E-Verify User Manual becomes available.

5. The Employer agrees to comply with current Form I-9 procedures, with two exceptions:

- a. If an employee presents a "List B" identity document, the Employer agrees to only accept "List B" documents that contain a photo. (List B documents identified in 8 C.F.R. 274a.2(b)(1)(B)) can be presented during the Form I-9 process to establish identity.) If an employee objects to the photo requirement for religious reasons, the Employer should contact E-Verify at 888-464-4218.
- b. If an employee presents a DHS Form I-551 (Permanent Resident Card), Form I-766 (Employment Authorization Document), or U.S. Passport or Passport Card to complete Form I-9, the Employer agrees to make a photocopy of the document and to retain the photocopy with the employee's Form I-9. The Employer will use the photocopy to verify the photo and to assist DHS with its review of photo mismatches that employees contest. DHS may in the future designate other documents that activate the photo screening tool.

Note: Subject only to the exceptions noted previously in this paragraph, employees still retain the right to present any List A, or List B and List C, document(s) to complete the Form I-9.

6. The Employer agrees to record the case verification number on the employee's Form I-9 or to print the screen containing the case verification number and attach it to the employee's Form I-9.

7. The Employer agrees that, although it participates in E-Verify, the Employer has a responsibility to complete, retain, and make available for inspection Forms I-9 that relate to its employees, or from other requirements of applicable regulations or laws, including the obligation to comply with the antidiscrimination requirements of section 274B of the INA with respect to Form I-9 procedures.

- a. The following modified requirements are the only exceptions to an Employer's obligation to not employ unauthorized workers and comply with the anti-discrimination provision of the INA: (1) List B identity documents must have photos, as described in paragraph 6 above; (2) When an Employer confirms the identity and employment eligibility of newly hired employee using E-Verify procedures, the Employer establishes a rebuttable presumption that it has not violated section 274A(a)(1)(A) of



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the Immigration and Nationality Act (INA) with respect to the hiring of that employee; (3) If the Employer receives a final nonconfirmation for an employee, but continues to employ that person, the Employer must notify DHS and the Employer is subject to a civil money penalty between \$550 and \$1,100 for each failure to notify DHS of continued employment following a final nonconfirmation; (4) If the Employer continues to employ an employee after receiving a final nonconfirmation, then the Employer is subject to a rebuttable presumption that it has knowingly employed an unauthorized alien in violation of section 274A(a)(1)(A); and (5) no E-Verify participant is civilly or criminally liable under any law for any action taken in good faith based on information provided through the E-Verify.

b. DHS reserves the right to conduct Form I-9 compliance inspections, as well as any other enforcement or compliance activity authorized by law, including site visits, to ensure proper use of E-Verify.

8. The Employer is strictly prohibited from creating an E-Verify case before the employee has been hired, meaning that a firm offer of employment was extended and accepted and Form I-9 was completed. The Employer agrees to create an E-Verify case for new employees within three Employer business days after each employee has been hired (after both Sections 1 and 2 of Form I-9 have been completed), and to complete as many steps of the E-Verify process as are necessary according to the E-Verify User Manual. If E-Verify is temporarily unavailable, the three-day time period will be extended until it is again operational in order to accommodate the Employer's attempting, in good faith, to make inquiries during the period of unavailability.

9. The Employer agrees not to use E-Verify for pre-employment screening of job applicants, in support of any unlawful employment practice, or for any other use that this MOU or the E-Verify User Manual does not authorize.

10. The Employer must use E-Verify (through its Web Services E-Verify Employer Agent) for all new employees. The Employer will not verify selectively and will not verify employees hired before the effective date of this MOU. Employers who are Federal contractors may qualify for exceptions to this requirement as described in Article II.B of this MOU.

11. The Employer agrees to follow appropriate procedures (see Article III below) regarding tentative nonconfirmations. The Employer must promptly notify employees in private of the finding and provide them with the notice and letter containing information specific to the employee's E-Verify case. The Employer agrees to provide both the English and the translated notice and letter for employees with limited English proficiency to employees. The Employer agrees to provide written referral instructions to employees and instruct affected employees to bring the English copy of the letter to the SSA. The Employer must allow employees to contest the finding, and not take adverse action against employees if they choose to contest the finding, while their case is still pending. Further, when employees contest a tentative nonconfirmation based upon a photo mismatch, the Employer must take additional steps (see Article III.B below) to contact DHS with information necessary to resolve the challenge.

12. The Employer agrees not to take any adverse action against an employee based upon the employee's perceived employment eligibility status while SSA or DHS is processing the verification request unless the Employer obtains knowledge (as defined in 8 C.F.R. § 274a.1(l)) that the employee is not work authorized. The Employer understands that an initial inability of the SSA or DHS automated



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verification system to verify work authorization, a tentative nonconfirmation, a case in continuance (indicating the need for additional time for the government to resolve a case), or the finding of a photo mismatch, does not establish, and should not be interpreted as, evidence that the employee is not work authorized. In any of such cases, the employee must be provided a full and fair opportunity to contest the finding, and if he or she does so, the employee may not be terminated or suffer any adverse employment consequences based upon the employee's perceived employment eligibility status (including denying, reducing, or extending work hours, delaying or preventing training, requiring an employee to work in poorer conditions, withholding pay, refusing to assign the employee to a Federal contract or other assignment, or otherwise assuming that he or she is unauthorized to work) until and unless secondary verification by SSA or DHS has been completed and a final nonconfirmation has been issued. If the employee does not choose to contest a tentative nonconfirmation or a photo mismatch or if a secondary verification is completed and a final nonconfirmation is issued, then the Employer can find the employee is not work authorized and terminate the employee's employment. Employers or employees with questions about a final nonconfirmation may call E-Verify at 1-888-464-4218 (customer service) or 1-888-897-7781 (worker hotline).

13. The Employer agrees to comply with Title VII of the Civil Rights Act of 1964 and section 274B of the INA as applicable by not discriminating unlawfully against any individual in hiring, firing, employment eligibility verification, or recruitment or referral practices because of his or her national origin or citizenship status, or by committing discriminatory documentary practices. The Employer understands that such illegal practices can include selective verification or use of E-Verify except as provided in part D below, or discharging or refusing to hire employees because they appear or sound "foreign" or have received tentative nonconfirmations. The Employer further understands that any violation of the immigration-related unfair employment practices provisions in section 274B of the INA could subject the Employer to civil penalties, back pay awards, and other sanctions, and violations of Title VII could subject the Employer to back pay awards, compensatory and punitive damages. Violations of either section 274B of the INA or Title VII may also lead to the termination of its participation in E-Verify. If the Employer has any questions relating to the anti-discrimination provision, it should contact OSC at 1-800-255-8155 or 1-800-237-2515 (TDD).

14. The Employer agrees that it will use the information it receives from E-Verify (through its Web Services E-Verify Employer Agent) only to confirm the employment eligibility of employees as authorized by this MOU. The Employer agrees that it will safeguard this information, and means of access to it (such as Personal Identification Numbers and passwords), to ensure that it is not used for any other purpose and as necessary to protect its confidentiality, including ensuring that it is not disseminated to any person other than employees of the Employer who are authorized to perform the Employer's responsibilities under this MOU, except for such dissemination as may be authorized in advance by SSA or DHS for legitimate purposes.

15. The Employer agrees to notify DHS immediately in the event of a breach of personal information. Breaches are defined as loss of control or unauthorized access to E-Verify personal data. All suspected or confirmed breaches should be reported by calling 1-888-464-4218 or via email at E-Verify@uscis.dhs.gov. Please use "Privacy Incident - Password" in the subject line of your email when sending a breach report to E-Verify.

16. The Employer acknowledges that the information it receives from SSA through its Web Services



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E-Verify Employer Agent is governed by the Privacy Act (5 U.S.C. § 552a(i)(1) and (3)) and the Social Security Act (42 U.S.C. 1306(a)). Any person who obtains this information under false pretenses or uses it for any purpose other than as provided for in this MOU may be subject to criminal penalties.

17. The Employer agrees to cooperate with DHS and SSA in their compliance monitoring and evaluation of E-Verify, which includes permitting DHS, SSA, their contractors and other agents, upon reasonable notice, to review Forms I-9 and other employment records and to interview it and its employees regarding the Employer's use of E-Verify, and to respond in a prompt and accurate manner to DHS requests for information relating to their participation in E-Verify.

18. The Employer shall not make any false or unauthorized claims or references about its participation in E-Verify on its website, in advertising materials, or other media. The Employer shall not describe its services as federally-approved, federally-certified, or federally-recognized, or use language with a similar intent on its website or other materials provided to the public. Entering into this MOU does not mean that E-Verify endorses or authorizes your E-Verify services and any claim to that effect is false.

19. The Employer shall not state in its website or other public documents that any language used therein has been provided or approved by DHS, USCIS or the Verification Division, without first obtaining the prior written consent of DHS.

20. The Employer agrees that [E-Verify trademarks](#) and logos may be used only under license by DHS/USCIS (see [M-795 \(Web\)](#)) and, other than pursuant to the specific terms of such license, may not be used in any manner that might imply that the Employer's services, products, websites, or publications are sponsored by, endorsed by, licensed by, or affiliated with DHS, USCIS, or E-Verify.

21. The Employer understands that if it uses E-Verify procedures for any purpose other than as authorized by this MOU, the Employer may be subject to appropriate legal action and termination of its participation in E-Verify according to this MOU.

B. RESPONSIBILITIES OF THE WEB SERVICES E-VERIFY EMPLOYER AGENT

1. The Web Services E-Verify Employer Agent agrees to complete its Web Services interface no later than six months after the date the Web Services User signs this MOU. E-Verify considers your interface to be complete once it has been built pursuant to the Interface Control Agreement (ICA), submitted to E-Verify for testing, and approved for system access.

2. The Web Services E-Verify Employer Agent agrees to perform sufficient maintenance on the Web Services interface in accordance with the requirements listed in the ICA. These requirements include, but are not limited to, updating the Web Services interface to ensure that any updates or enhancements are incorporated no later than six months after the issuance of an ICA. Web Services E-Verify Employer Agents should be aware that this will require the investment of time and resources. Compliance with the requirements of the ICA must be carried out to the satisfaction of DHS and or its assignees.

3. The Web Services E-Verify Employer Agent agrees to provide to SSA and/or DHS the names, titles, addresses, e-mail addresses, and telephone numbers of the Web Services E-Verify Employer Agent representative who will access information, as well as ensure cooperation, communication, and coordination with E-Verify.



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In addition, Web Services E-Verify Employer Agents must provide to SSA and/or DHS the names, titles, addresses, and telephone numbers of its clients and their staff who will access information through E-Verify. Web Services E-Verify Employer Agents must ensure the contact information is updated with SSA and DHS whenever the points of contact change.

4. The Web Services E-Verify Employer Agent agrees to become familiar with and comply with the E-Verify User Manual and provide a copy of the most current version of the manual to the Employer so that the Employer can become familiar with and comply with E-Verify policy and procedures. The Web Services E-Verify Employer Agent agrees to obtain a revised E-Verify User Manual as it becomes available and to provide a copy of the revised version to the Employer no later than 30 days after the manual becomes available.

5. The Web Services E-Verify Employer Agent agrees that any person accessing E-Verify on its behalf is trained on the most recent E-Verify policy and procedures.

6. The Web Services E-Verify Employer Agent agrees that any of its representatives who will perform employment verification cases will complete the E-Verify Tutorial before that individual initiates any cases.

a. The Web Services E-Verify Employer Agent agrees that all of its representatives will take the refresher tutorials initiated by E-Verify as a condition of continued use of E-Verify, including any tutorials for Federal contractors, if any of the Employers represented by the Web Services E-Verify Employer Agent is a Federal contractor.

b. Failure to complete a refresher tutorial will prevent the Web Services E-Verify Employer Agent and Employer from continued use of E-Verify.

7. The Web Services E-Verify Employer Agent agrees to grant E-Verify access only to current employees who need E-Verify access. The Web Services E-Verify Employer Agent must promptly terminate an employee's E-Verify access if the employee is separated from the company or no longer needs access to E-Verify.

8. The Web Services E-Verify Employer Agent agrees to obtain the necessary equipment to use E-Verify as required by the E-Verify rules and regulations as modified from time to time.

9. The Web Services E-Verify Employer Agent agrees to, consistent with applicable laws, regulations, and policies, commit sufficient personnel and resources to meet the requirements of this MOU.

10. The Web Services E-Verify Employer Agent agrees to provide its clients with training on E-Verify processes, policies, and procedures. The E-Verify Employer Agent also agrees to provide its clients with ongoing E-Verify training as needed. E-Verify is not responsible for providing training to clients of E-Verify Employer Agents.

11. The Web Services E-Verify Employer Agent agrees to provide the Employer with the notices described in Article II.B.2 below.

12. The Web Services E-Verify Employer Agent agrees to create E-Verify cases for the Employer it represents in accordance with the E-Verify Manual, the E-Verify Web-Based Tutorial and all other published E-Verify



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rules and procedures. The Web Services E-Verify Employer Agent will create E-Verify cases using information provided by the Employer and will immediately communicate the response back to the Employer. If E-Verify is temporarily unavailable, the three-day time period will be extended until it is again operational in order to accommodate the Web Services E-Verify Employer Agent's attempting, in good faith, to make inquiries on behalf of the Employer during the period of unavailability. If, however, the Web Services interface is unavailable due to no fault of E-Verify, then the three-day time period is not extended. In such a case, the Web Services E-Verify Employer Agent must use the E-Verify browser during the outage.

13. The Web Services E-Verify Employer Agent agrees to ensure that all notices, referral letters and any other materials otherwise including instructions regarding tentative nonconfirmations, will be consistent with the most current E-Verify tentative nonconfirmation notices and referral letters, which are available on E-Verify's website.

14. The Web Services E-Verify Employer Agent agrees that any system or interface it develops will follow the steps for creating E-Verify cases and processing tentative nonconfirmations, as laid out in the ICA, this MOU and the User Manual, including but not limited to allowing an employer to close an invalid case where appropriate, allowing an employer to refer a tentative nonconfirmation only when an employee chooses to contest a tentative nonconfirmation (no automatic referrals), and referring a tentative nonconfirmation to the appropriate agency at the time the employer prints the referral letter and provides the letter to the employee. The Web Services E-Verify Employer Agent understands that any failure to make its system or interface consistent with proper E-Verify procedures can result in DHS terminating the Web Services E-Verify Employer Agent's agreement and access with or without notice.

15. When the Web Services E-Verify Employer Agent receives notice from a client company that it has received a contract with the FAR clause, then the Web Services E-Verify Employer Agent must update the company's E-Verify profile within 30 days of the contract award date.

16. If data is transmitted between the Web Services E-Verify Employer Agent and its client, then the Web Services E-Verify Employer Agent agrees to protect personally identifiable information during transmission to and from the Web Services E-Verify Employer Agent.

17. The Web Services E-Verify Employer Agent agrees to notify DHS immediately in the event of a breach of personal information. Breaches are defined as loss of control or unauthorized access to E-Verify personal data. All suspected or confirmed breaches should be reported by calling 1-888-464-4218 or via email at E-Verify@uscis.dhs.gov. Please use "Privacy Incident - Password" in the subject line of your email when sending a breach report to E-Verify.

18. The Web Services E-Verify Employer Agent agrees to fully cooperate with DHS and SSA in their compliance monitoring and evaluation of E-Verify, including permitting DHS, SSA, their contractors and other agents, upon reasonable notice, to review Forms I-9, employment records, and all records pertaining to the Web Services E-Verify Employer Agent's use of E-Verify, and to interview it and its employees regarding the use of E-Verify, and to respond in a timely and accurate manner to DHS requests for information relating to their participation in E-Verify.

- a. The Web Services E-Verify Employer Agent agrees to cooperate with DHS if DHS requests



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information about the Web Services E-Verify Employer Agent's interface, including requests by DHS to view the actual interface operated by the Web Services E-Verify Employer Agent as well as related business documents. The Web Services E-Verify Employer Agent agrees to demonstrate for DHS the functionality of its interface to E-Verify upon request.

b. The Web Services E-Verify Employer Agent agrees to demonstrate, if requested by DHS, that it has provided training to its clients that meets E-Verify standards. Training programs must provide a focused study of the topics covered in the E-Verify User Manual and pertinent Supplemental Guides. Furthermore, training programs and materials must be updated as E-Verify changes occur. The Web Services E-Verify Employer Agent is encouraged to incorporate information from existing E-Verify materials, including the Enrollment Quick Reference Guide, the E-Verify Employer Agent Client Handbook (formerly known as the Designated Agent Client Handbook), and existing tutorials and manuals into their training program. E-Verify also encourages the Web Services E-Verify Employer Agent to supervise first-time use of the E-Verify browser or Web Services interface by its staff and Employer clients as part of any training program. The Web Services E-Verify Employer Agent agrees to submit its training program materials to DHS for review upon request.

Failure to provide adequate training could, in some instances, lead to penalties as described in Article V.F.1. of this MOU.

19. The Web Services E-Verify Employer Agent shall not make any false or unauthorized claims or references about its participation in E-Verify on its website, in advertising materials, or other media. The Web Services E-Verify Employer Agent shall not describe its services as federally-approved, federally-certified, or federally-recognized, or use language with a similar intent on its website or other materials provided to the public. Entering into this MOU does not mean that E-Verify endorses or authorizes your Web Services E-Verify Employer Agent services and any claim to that effect is false.

20. The Web Services E-Verify Employer Agent shall not state in its website or other public documents that any language used therein has been provided or approved by DHS, USCIS or the Verification Division, without first obtaining the prior written consent of DHS.

21. The Web Services E-Verify Employer Agent agrees that [E-Verify trademarks](#) and logos may be used only under license by DHS/USCIS (see [M-795 \(Web\)](#)) and, other than pursuant to the specific terms of such license, may not be used in any manner that might imply that the Web Services E-Verify Employer Agent's services, products, websites, or publications are sponsored by, endorsed by, licensed by, or affiliated with DHS, USCIS, or E-Verify.

22. The Web Services E-Verify Employer Agent understands that if it uses E-Verify procedures for any purpose other than as authorized by this MOU, the Web Services E-Verify Employer Agent may be subject to appropriate legal action and termination of its participation in E-Verify according to this MOU.

C. RESPONSIBILITIES OF FEDERAL CONTRACTORS

The Web Services E-Verify Employer Agent shall ensure that the Web Services E-Verify Employer Agent and the Employers it represents carry out the following responsibilities if the Employer is a Federal contractor or becomes a federal contractor. The Web Services E-Verify Employer Agent should instruct the client to keep the Web Services E-Verify Employer Agent informed about any changes or updates related to federal contracts. It is the Web Services E-Verify Employer Agent's responsibility to ensure that its clients are in compliance



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with all E-Verify policies and procedures.

1. If the Employer is a Federal contractor with the FAR E-Verify clause subject to the employment verification terms in Subpart 22.18 of the FAR, it will become familiar with and comply with the most current version of the E-Verify User Manual for Federal Contractors as well as the E-Verify Supplemental Guide for Federal Contractors.

2. In addition to the responsibilities of every employer outlined in this MOU, the Employer understands that if it is a Federal contractor subject to the employment verification terms in Subpart 22.18 of the FAR it must verify the employment eligibility of any "employee assigned to the contract" (as defined in FAR 22.1801). Once an employee has been verified through E-Verify by the Employer, the Employer may not reverify the employee through E-Verify.

a. An Employer that is not enrolled in E-Verify as a Federal contractor at the time of a contract award must enroll as a Federal contractor in the E-Verify program within 30 calendar days of contract award and, within 90 days of enrollment, begin to verify employment eligibility of new hires using E-Verify. The Employer must verify those employees who are working in the United States, whether or not they are assigned to the contract. Once the Employer begins verifying new hires, such verification of new hires must be initiated within three business days after the hire date. Once enrolled in E-Verify as a Federal contractor, the Employer must begin verification of employees assigned to the contract within 90 calendar days after the date of enrollment or within 30 days of an employee's assignment to the contract, whichever date is later.

b. Employers enrolled in E-Verify as a Federal contractor for 90 days or more at the time of a contract award must use E-Verify to begin verification of employment eligibility for new hires of the Employer who are working in the United States, whether or not assigned to the contract, within three business days after the date of hire. If the Employer is enrolled in E-Verify as a Federal contractor for 90 calendar days or less at the time of contract award, the Employer must, within 90 days of enrollment, begin to use E-Verify to initiate verification of new hires of the contractor who are working in the United States, whether or not assigned to the contract. Such verification of new hires must be initiated within three business days after the date of hire. An Employer enrolled as a Federal contractor in E-Verify must begin verification of each employee assigned to the contract within 90 calendar days after date of contract award or within 30 days after assignment to the contract, whichever is later.

c. Federal contractors that are institutions of higher education (as defined at 20 U.S.C. 1001(a)), state or local governments, governments of Federally recognized Indian tribes, or sureties performing under a takeover agreement entered into with a Federal agency under a performance bond may choose to only verify new and existing employees assigned to the Federal contract. Such Federal contractors may, however, elect to verify all new hires, and/or all existing employees hired after November 6, 1986. Employers in this category must begin verification of employees assigned to the contract within 90 calendar days after the date of enrollment or within 30 days of an employee's assignment to the contract, whichever date is later.

d. Upon enrollment, Employers who are Federal contractors may elect to verify employment eligibility of all existing employees working in the United States who were hired after November 6, 1986, instead of verifying only those employees assigned to a covered Federal contract. After enrollment, Employers must elect to verify existing staff following DHS procedures and begin E-Verify verification of all



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existing employees within 180 days after the election.

e. The Employer may use a previously completed Form I-9 as the basis for creating an E-Verify case for an employee assigned to a contract as long as:

- i. That Form I-9 is complete (including the SSN) and complies with Article II.A.6,
- ii. The employee's work authorization has not expired, and
- iii. The Employer has reviewed the information reflected in the Form I-9 either in person or in communications with the employee to ensure that the employee's Section 1, Form I-9 attestation has not changed (including, but not limited to, a lawful permanent resident alien having become a naturalized U.S. citizen).

f. The Employer shall complete a new Form I-9 consistent with Article II.A.6 or update the previous Form I-9 to provide the necessary information if:

- i. The Employer cannot determine that Form I-9 complies with Article II.A.6,
- ii. The employee's basis for work authorization as attested in Section 1 has expired or changed, or
- iii. The Form I-9 contains no SSN or is otherwise incomplete.

Note: If Section 1 of Form I-9 is otherwise valid and up-to-date and the form otherwise complies with Article II.C.5, but reflects documentation (such as a U.S. passport or Form I-551) that expired after completing Form I-9, the Employer shall not require the production of additional documentation, or use the photo screening tool described in Article II.A.5, subject to any additional or superseding instructions that may be provided on this subject in the E-Verify User Manual.

g. The Employer agrees not to require a second verification using E-Verify of any assigned employee who has previously been verified as a newly hired employee under this MOU or to authorize verification of any existing employee by any Employer that is not a Federal contractor based on this Article.

3. The Employer understands that if it is a Federal contractor, its compliance with this MOU is a performance requirement under the terms of the Federal contract or subcontract, and the Employer consents to the release of information relating to compliance with its verification responsibilities under this MOU to contracting officers or other officials authorized to review the Employer's compliance with Federal contracting requirements.

D. RESPONSIBILITIES OF SSA

1. SSA agrees to allow DHS to compare data provided by the Employer (through the E-Verify Employer Agent) against SSA's database. SSA sends DHS confirmation that the data sent either matches or does not match the information in SSA's database.

2. SSA agrees to safeguard the information the Employer provides (through the E-Verify Employer Agent) through E-Verify procedures. SSA also agrees to limit access to such information, as is appropriate by law, to individuals responsible for the verification of Social Security numbers or responsible for evaluation of E-Verify or such other persons or entities who may be authorized by SSA as governed by the Privacy Act (5 U.S.C. § 552a), the Social Security Act (42 U.S.C. 1306(a)), and SSA regulations (20 CFR Part 401).



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3. SSA agrees to provide case results from its database within three Federal Government work days of the initial inquiry. E-Verify provides the information to the E-Verify Employer Agent.

4. SSA agrees to update SSA records as necessary if the employee who contests the SSA tentative nonconfirmation visits an SSA field office and provides the required evidence. If the employee visits an SSA field office within the eight Federal Government work days from the date of referral to SSA, SSA agrees to update SSA records, if appropriate, within the eight-day period unless SSA determines that more than eight days may be necessary. In such cases, SSA will provide additional instructions to the employee. If the employee does not visit SSA in the time allowed, E-Verify may provide a final nonconfirmation to the E-Verify Employer Agent.

Note: If an Employer experiences technical problems, or has a policy question, the employer should contact E-Verify at 1-888-464-4218.

E. RESPONSIBILITIES OF DHS

1. DHS agrees to provide the Employer with selected data from DHS databases to enable the Employer (through the E-Verify Employer Agent) to conduct, to the extent authorized by this MOU:

- a. Automated verification checks on alien employees by electronic means, and
- b. Photo verification checks (when available) on employees.

2. DHS agrees to assist the E-Verify Employer Agent with operational problems associated with its participation in E-Verify. DHS agrees to provide the E-Verify Employer Agent names, titles, addresses, and telephone numbers of DHS representatives to be contacted during the E-Verify process.

3. DHS agrees to provide to the E-Verify Employer Agent with access to E-Verify training materials as well as an E-Verify User Manual that contain instructions on E-Verify policies, procedures, and requirements for both SSA and DHS, including restrictions on the use of E-Verify.

4. DHS agrees to train E-Verify Employer Agents on all important changes made to E-Verify through the use of mandatory refresher tutorials and updates to the E-Verify User Manual. Even without changes to E-Verify, DHS reserves the right to require E-Verify Employer Agents to take mandatory refresher tutorials.

5. DHS agrees to provide to the Employer (through the E-Verify Employer Agent) a notice, which indicates the Employer's participation in E-Verify. DHS also agrees to provide to the Employer anti-discrimination notices issued by the Office of Special Counsel for Immigration-Related Unfair Employment Practices (OSC), Civil Rights Division, U.S. Department of Justice.

6. DHS agrees to issue each of the E-Verify Employer Agent's E-Verify users a unique user identification number and password that permits them to log in to E-Verify.

7. DHS agrees to safeguard the information the Employer provides (through the E-Verify Employer Agent), and to limit access to such information to individuals responsible for the verification process, for evaluation of E-Verify, or to such other persons or entities as may be authorized by applicable law. Information will be used only to verify the accuracy of Social Security numbers and employment eligibility, to enforce the INA and Federal criminal laws, and to administer Federal contracting requirements.



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8. DHS agrees to provide a means of automated verification that provides (in conjunction with SSA verification procedures) confirmation or tentative nonconfirmation of employees' employment eligibility within three Federal Government work days of the initial inquiry.

9. DHS agrees to provide a means of secondary verification (including updating DHS records) for employees who contest DHS tentative nonconfirmations and photo mismatch tentative nonconfirmations. This provides final confirmation or nonconfirmation of the employees' employment eligibility within 10 Federal Government work days of the date of referral to DHS, unless DHS determines that more than 10 days may be necessary. In such cases, DHS will provide additional verification instructions.

ARTICLE III REFERRAL OF INDIVIDUALS TO SSA AND DHS

A. REFERRAL TO SSA

1. If the Employer receives a tentative nonconfirmation issued by SSA, the Employer must print the notice as directed by E-Verify. The Employer must promptly notify employees in private of the finding and provide them with the notice and letter containing information specific to the employee's E-Verify case. The Employer also agrees to provide both the English and the translated notice and letter for employees with limited English proficiency to employees. The Employer agrees to provide written referral instructions to employees and instruct affected employees to bring the English copy of the letter to the SSA. The Employer must allow employees to contest the finding, and not take adverse action against employees if they choose to contest the finding, while their case is still pending.

2. The Employer agrees to obtain the employee's response about whether he or she will contest the tentative nonconfirmation as soon as possible after the Employer receives the tentative nonconfirmation. Only the employee may determine whether he or she will contest the tentative nonconfirmation.

3. After a tentative nonconfirmation, the Employer will refer employees to SSA field offices only as directed by E-Verify. The Employer must record the case verification number, review the employee information submitted to E-Verify to identify any errors, and find out whether the employee contests the tentative nonconfirmation. The Employer will transmit the Social Security number, or any other corrected employee information that SSA requests, to SSA for verification again if this review indicates a need to do so.

4. The Employer will instruct the employee to visit an SSA office within eight Federal Government work days. SSA will electronically transmit the result of the referral to the Employer within 10 Federal Government work days of the referral unless it determines that more than 10 days is necessary.

5. While waiting for case results, the Employer agrees to check the E-Verify system regularly for case updates.

6. The Employer agrees not to ask the employee to obtain a printout from the Social Security Administration number database (the Numident) or other written verification of the SSN from the SSA.



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B. REFERRAL TO DHS

1. If the Employer receives a tentative nonconfirmation issued by DHS, the Employer must promptly notify employees in private of the finding and provide them with the notice and letter containing information specific to the employee's E-Verify case. The Employer also agrees to provide both the English and the translated notice and letter for employees with limited English proficiency to employees. The Employer must allow employees to contest the finding, and not take adverse action against employees if they choose to contest the finding, while their case is still pending.
2. The Employer agrees to obtain the employee's response about whether he or she will contest the tentative nonconfirmation as soon as possible after the Employer receives the tentative nonconfirmation. Only the employee may determine whether he or she will contest the tentative nonconfirmation.
3. The Employer agrees to refer individuals to DHS only when the employee chooses to contest a tentative nonconfirmation.
4. If the employee contests a tentative nonconfirmation issued by DHS, the Employer will instruct the employee to contact DHS through its toll-free hotline (as found on the referral letter) within eight Federal Government work days.
5. If the Employer finds a photo mismatch, the Employer must provide the photo mismatch tentative nonconfirmation notice and follow the instructions outlined in paragraph 1 of this section for tentative nonconfirmations, generally.
6. The Employer agrees that if an employee contests a tentative nonconfirmation based upon a photo mismatch, the Employer will send a copy of the employee's Form I-551, Form I-766, U.S. Passport, or passport card to DHS for review by:
 - a. Scanning and uploading the document, or
 - b. Sending a photocopy of the document by express mail (furnished and paid for by the employer).
7. The Employer understands that if it cannot determine whether there is a photo match/mismatch, the Employer must forward the employee's documentation to DHS as described in the preceding paragraph. The Employer agrees to resolve the case as specified by the DHS representative who will determine the photo match or mismatch.
8. DHS will electronically transmit the result of the referral to the Employer within 10 Federal Government work days of the referral unless it determines that more than 10 days is necessary.
9. While waiting for case results, the Employer agrees to check the E-Verify system regularly for case updates.



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ARTICLE IV SERVICE PROVISIONS

A. NO SERVICE FEES

1. SSA and DHS will not charge the Employer or the Web Services E-Verify Employer Agent for verification services performed under this MOU. The Employer is responsible for providing equipment needed to make inquiries. To access E-Verify, an Employer will need a personal computer with Internet access.

ARTICLE V SYSTEM SECURITY AND MAINTENANCE

A. DEVELOPMENT REQUIREMENTS

1. Software developed by Web Services E-Verify Employer Agents must comply with federally-mandated information security policies and industry security standards to include but not limited to:
 - a. Public Law 107-347, "E-Government Act of 2002, Title III, Federal Information Security Management Act (FISMA)," December 2002.
 - b. Office of Management and Budget (OMB) Memorandum (M-10-15), "FY 2010 Reporting Instructions for the Federal Information Security Management Act and Agency Privacy Management," April 2010.
 - c. National Institute of Standards and Technology (NIST) Special Publication (SP) and Federal Information Processing Standards Publication (FIPS).
 - d. International Organization for Standardization/International Electrotechnical Commission (ISO/IEC) 27002, Information Technology — Security Techniques — Code of Practice for Information Security Management.
2. The Web Services E-Verify Employer Agent agrees to update its Web Services interface to reflect system enhancements within six months from the date DHS notifies the Web Services User of the system update. The Web Services User will receive notice from DHS in the form of an Interface Control Agreement (ICA). The Web Services E-Verify Employer Agent agrees to institute changes to its interface as identified in the ICA, including all functionality identified and all data elements detailed therein.
3. The Web Services E-Verify Employer Agent agrees to demonstrate progress of its efforts to update its Web Services interface if and when DHS requests such progress reports.
4. The Web Services E-Verify Employer Agent acknowledges that if its system enhancements are not completed to the satisfaction of DHS or its assignees within six months from the date DHS notifies the Web Services User of the system update, then the Web Services User's E-Verify account may be suspended, and support for previous releases of E-Verify may no longer be available to the Web Services User. The Web Services E-Verify Employer Agent also acknowledges that DHS may suspend the Web Services User's account after the six-month period has elapsed.
5. The Web Services E-Verify Employer Agent agrees to incorporate error handling logic into its development or software to accommodate and act in a timely fashion should an error code be returned.



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6. The Web Services E-Verify Employer Agent agrees to complete the technical requirements testing which is confirmed upon receiving approval of test data and connectivity between the Web Services E-Verify Employer Agent and DHS.

7. DHS will not reimburse any Web Services E-Verify Employer Agent or software developer who has expended resources in the development or maintenance of a Web Services interface if that party is unable, or becomes unable, to meet any of the requirements set forth in this MOU.

8. Housing, development, infrastructure, maintenance, and testing of the Web Services applications may take place outside the United States and its territories, but testing must be conducted to ensure that the code is correct and secure.

9. If the Web Services E-Verify Employer Agent includes an electronic Form I-9 as part of its interface, then it must comply with the standards for electronic retention of Form I-9 found in 8 CFR 274a.2(e).

B. INFORMATION SECURITY REQUIREMENTS

Web Services E-Verify Employer Agents performing verification services under this MOU must ensure that information that is shared between the Web Services E-Verify Employer Agent and DHS is appropriately protected comparable to the protection provided when the information is within the DHS environment [OMB Circular A-130 Appendix III].

To achieve this level of information security, the Web Services E-Verify Employer Agent agrees to institute the following procedures:

1. Conduct periodic assessments of risk, including the magnitude of harm that could result from the unauthorized access, use, disclosure, disruption, modification, or destruction of information and information systems that support the operations and assets of the DHS, SSA, and the Web Services E-Verify Employer Agent and its clients;
2. Develop policies and procedures that are based on risk assessments, cost-effectively reduce information security risks to an acceptable level, and ensure that information security is addressed throughout the life cycle of each organizational information system;
3. Implement subordinate plans for providing adequate information security for networks, facilities, information systems, or groups of information systems, as appropriate;
4. Conduct security awareness training to inform the Web Services E-Verify Employer Agent's personnel (including contractors and other users of information systems that support the operations and assets of the organization) of the information security risks associated with their activities and their responsibilities in complying with organizational policies and procedures designed to reduce these risks;
5. Develop periodic testing and evaluation of the effectiveness of information security policies, procedures, practices, and security controls to be performed with a frequency depending on risk, but no less than once per year;



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6. Develop a process for planning, implementing, evaluating, and documenting remedial actions to address any deficiencies in the information security policies, procedures, and practices of the organization;
7. Implement procedures for detecting, reporting, and responding to security incidents;
8. Create plans and procedures to ensure continuity of operations for information systems that support the operations and assets of the organization;
9. In information-sharing environments, the information owner is responsible for establishing the rules for appropriate use and protection of the subject information and retains that responsibility even when the information is shared with or provided to other organizations [NIST SP 800-37].
10. DHS reserves the right to restrict Web Services calls from certain IP addresses.
11. DHS reserves the right to audit the Web Services E-Verify Employer Agent's application.
12. Web Services E-Verify Employer Agents and Software Developers agree to cooperate willingly with the DHS assessment of information security and privacy practices used by the company to develop and maintain the software.

C. DATA PROTECTION AND PRIVACY REQUIREMENTS

1. Web Services E-Verify Employer Agents must practice proper Internet security; this means using HTTP over SSL/TLS (also known as HTTPS) when accessing DHS information resources such as E-Verify [NIST SP 800-95]. Internet security practices like this are necessary because Simple Object Access Protocol (SOAP), which provides a basic messaging framework on which Web Services can be built, allows messages to be viewed or modified by attackers as messages traverse the Internet and is not independently designed with all the necessary security protocols for E-Verify use.
2. In accordance with DHS standards, the Web Services E-Verify Employer Agent agrees to maintain physical, electronic, and procedural safeguards to appropriately protect the information shared under this MOU against loss, theft, misuse, unauthorized access, and improper disclosure, copying use, modification or deletion.
3. Any data transmission requiring encryption shall comply with the following standards:
 - Products using FIPS 197 Advanced Encryption Standard (AES) algorithms with at least 256-bit encryption that has been validated under FIPS 140-2.
 - NSA Type 2 or Type 1 encryption.
4. User ID Management (Set Standard): All information exchanged between the parties under this MOU will be done only through authorized Web Services E-Verify Employer Agent representatives identified above.
5. The Web Services E-Verify Employer Agent agrees to use the E-Verify browser instead of its own interface if it has not yet upgraded its interface to comply with the Federal Acquisition Regulation (FAR) system changes. In addition, Web Services E-Verify Employer Agents whose interfaces do not support the Form I-9 from 2/2/2009 or 8/7/2009 should also use the E-Verify browser until the system upgrade is completed.



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6. The Web Services E-Verify Employer Agent agrees to use the E-Verify browser instead of its own interface if it has not completed updates to its system within six months from the date DHS notifies the Web Services E-Verify Employer Agent of the system update. The Web Services E-Verify Employer Agent can resume use of its interface once it is up-to-date, unless the Web Services E-Verify Employer Agent has been suspended or terminated from continued use of the system.

D. COMMUNICATIONS

1. Web Services E-Verify Employer Agents and Software Developers agree to develop an electronic system that is not subject to any agreement that would restrict access to and use of by an agency of the United States.
2. The Web Services E-Verify Employer Agent agrees to develop effective controls to ensure the integrity, accuracy and reliability of its electronic system.
3. The Web Services E-Verify Employer Agent agrees to develop an inspection and quality assurance program that regularly, at least once per year, evaluates the electronic system, and includes periodic checks of electronically stored information. The Web Services E-Verify Employer Agent agrees to share the results of its regular inspection and quality assurance program with DHS upon request.
4. The Web Services E-Verify Employer Agent agrees to develop an electronic system with the ability to produce legible copies of applicable notices, letters, etc.
5. All information exchanged between the parties under this MOU will be in accordance with applicable laws, regulations, and policies, including but not limited to, information security guidelines of the sending party with respect to any information that is deemed Personally Identifiable Information (PII), including but not limited to the employee or applicant's Social Security number, alien number, date of birth, or other information that may be used to identify the individual.
6. Suspected and confirmed information security breaches must be reported to DHS according to Article II.A.17. Reporting such breaches does not relieve the Web Services E-Verify Employer Agent from further requirements as directed by state and local law. The Web Services E-Verify Employer Agent is subject to applicable state laws regarding data protection and incident reporting in addition to the requirements herein.

E. SOFTWARE DEVELOPER RESTRICTIONS

1. The Web Services E-Verify Employer Agent agrees that if it develops a Web Services interface and sells such interface, then it can be held liable for any misuse by the company that purchases the interface. It is the responsibility of the Web Services E-Verify Employer Agent to ensure that its interface is used in accordance with E-Verify policies and procedures.
2. The Web Services E-Verify Employer Agent agrees to provide software updates to each client who purchases its software. Because of the frequency Web Services updates, an ongoing relationship between the software developer and the client is necessary.



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3. DHS reserves the right to terminate the access of any software developer with or without notice who creates or uses an interface that does not comply with E-Verify procedures.
4. Web Services Software Developers pursuing software development independent of serving clients as a Web Services E-Verify Employer Agent are not eligible to receive an ICA. At this time, E-Verify does not permit Web Services software development without also being a Web Services E-Verify Employer Agent or Web Services Employer.

F. PENALTIES

1. The Web Services E-Verify Employer Agent agrees that any failure on its part to comply with the terms of the MOU may result in account suspension, termination, or other adverse action.
2. DHS is not liable for any financial losses to Web Services E-Verify Employer Agent, its clients, or any other party as a result of your account suspension or termination.

ARTICLE VI MODIFICATION AND TERMINATION

A. MODIFICATION

1. This MOU is effective upon the signature of all parties and shall continue in effect for as long as the SSA and DHS operates the E-Verify program unless modified in writing by the mutual consent of all parties.
2. Any and all E-Verify system enhancements by DHS or SSA, including but not limited to E-Verify checking against additional data sources and instituting new verification policies or procedures, will be covered under this MOU and will not cause the need for a supplemental MOU that outlines these changes.

B. TERMINATION

1. The Web Services E-Verify Employer Agent may terminate this MOU and its participation in E-Verify at any time upon 30 days prior written notice to the other parties. In addition, any Employer represented by the Web Services E-Verify Employer Agent may voluntarily terminate its MOU upon giving DHS 30 days' written notice. The Web Services E-Verify Employer Agent may not refuse to terminate the Employer based upon an outstanding bill for verification services.
2. Notwithstanding Article V, part A of this MOU, DHS may terminate this MOU, and thereby the Web Services E-Verify Employer Agent's participation in E-Verify, with or without notice at any time if deemed necessary because of the requirements of law or policy, or upon a determination by SSA or DHS that there has been a breach of system integrity or security by the Web Services E-Verify Employer Agent or Employer, or a failure on the part of either party to comply with established E-Verify procedures and/or legal requirements. The Employer understands that if it is a Federal contractor, termination of this MOU by any party for any reason may negatively affect the performance of its contractual responsibilities. Similarly, the Employer understands that if it is in a state where E-Verify is mandatory, termination of this by any party MOU may negatively affect the Employer's business.



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3. A Web Services E-Verify Employer Agent for an Employer that is a Federal contractor may terminate this MOU when the Federal contract that requires its participation in E-Verify is terminated or completed. In such cases, the Web Services E-Verify Employer Agent must provide written notice to DHS. If the Web Services E-Verify Employer Agent fails to provide such notice, then that Employer will remain an E-Verify participant, will remain bound by the terms of this MOU that apply to non-Federal contractor participants, and will be required to use the E-Verify procedures to verify the employment eligibility of all newly hired employees.
4. The Web Services E-Verify Employer Agent agrees that E-Verify is not liable for any losses, financial or otherwise, if the Web Services E-Verify Employer Agent or the Employer is terminated from E-Verify.

ARTICLE VII PARTIES

- A. Some or all SSA and DHS responsibilities under this MOU may be performed by contractor(s), and SSA and DHS may adjust verification responsibilities between each other as necessary. By separate agreement with DHS, SSA has agreed to perform its responsibilities as described in this MOU.
- B. Nothing in this MOU is intended, or should be construed, to create any right or benefit, substantive or procedural, enforceable at law by any third party against the United States, its agencies, officers, or employees, or against the Web Services E-Verify Employer Agent, its agents, officers, or employees.
- C. The Web Services E-Verify Employer Agent may not assign, directly or indirectly, whether by operation of law, change of control or merger, all or any part of its rights or obligations under this MOU without the prior written consent of DHS, which consent shall not be unreasonably withheld or delayed. Any attempt to sublicense, assign, or transfer any of the rights, duties, or obligations herein is void.
- D. Each party shall be solely responsible for defending any claim or action against it arising out of or related to E-Verify or this MOU, whether civil or criminal, and for any liability wherefrom, including (but not limited to) any dispute between the Web Services E-Verify Employer Agent or the Employer and any other person or entity regarding the applicability of Section 403(d) of IIRIRA to any action taken or allegedly taken by the Web Services E-Verify Employer Agent or the Employer.
- E. The Web Services E-Verify Employer Agent understands that its participation in E-Verify is not confidential information and may be disclosed as authorized or required by law and DHS or SSA policy, including but not limited to, Congressional oversight, E-Verify publicity and media inquiries, determinations of compliance with Federal contractual requirements, and responses to inquiries under the Freedom of Information Act (FOIA).
- F. The individuals whose signatures appear below represent that they are authorized to enter into this MOU on behalf of the Employer, the Web Services E-Verify Employer Agent and DHS respectively. The Web Services E-Verify Employer Agent understands that any inaccurate statement, representation, data or other information provided to DHS may subject the Web Services E-Verify Employer Agent, as the case may be, its subcontractors, its employees, or its representatives to: (1) prosecution for false statements pursuant to 18 U.S.C. 1001 and/or; (2) immediate termination of its MOU and/or; (3) possible debarment or suspension.



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G. The foregoing constitutes the full agreement on this subject between DHS, the Employer, and the E-Verify Employer Agent. Nextran Corp (Employer) hereby designates and appoint Equifax Workforce Solutions LLC (E-Verify Employer Agent) including its officers and employees, as the E-Verify Employer Agent for the purpose of carrying out (Employer) responsibilities under the MOU between the Employer, the E-Verify Employer Agent, and DHS. If you have any questions, contact E-Verify at 1-888-464-4218.



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Approved by:

Employer	
Nextran Corp	
Name (Please Type or Print) Taylor C Dube at HIREtech	Title
Signature Electronically Signed	Date 08/03/2022
E-Verify Employer Agent	
Equifax Workforce Solutions LLC	
Name (Please Type or Print) Taylor C Dube	Title
Signature Electronically Signed	Date 08/03/2022
Department of Homeland Security – Verification Division	
Name (Please Type or Print) USCIS Verification Division	Title
Signature Electronically Signed	Date 08/29/2022



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Information Required for the E-Verify Program	
Information relating to your Company:	
Company Name	Nextran Corp
Company Facility Address	1986 W Beaver St. Jacksonville, FL 32209
Company Alternate Address	1986 W Beaver St. Jacksonville, FL 32209
County or Parish	DUVAL
Employer Identification Number	593139839
North American Industry Classification Systems Code	484
Parent Company	
Number of Employees	100 to 499
Number of Sites Verified for	1 site(s)



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Are you verifying for more than 1 site? If yes, please provide the number of sites verified for in each State:



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Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:



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This list represents the first 20 Program Administrators listed for this company.