

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:

Full diagnostic capabilities

Yes No
Page # 2 FBS
8

Road speed limiting and Cruise Control Feature

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

Shutdown capabilities for critical engine functions

Yes No
Page # 10 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

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

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

Yes No
Page # 3 of FBS and
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

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 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/>

Yes No
Page # See Website

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.

Yes No
Page # 2 of Standard Equipment

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

Yes No
Page # 2 of Standard Equipment

Cab should feature:

Dual air horns in addition to the standard electric signal horn

*Pg
7 of FBS*

Yes No
Page # 8 of standard equipment

Chrome Bullet style marker lights

Yes No
Page # 5 of FBS

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*

Yes No
Page # 8 of FBS

Stainless Steel Exterior sun visor

Yes No
Page # 8 of FBS

Cab glass to be safety tinted

Pg 6 FBS

Yes No
Page # 2 of Standard Equipment

Cab to have grab handles of both sides of cab

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

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

Yes No
Page # 2 of standard equipment

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

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

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

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 # 7 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 # 6 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 No
Page # 6 of FBS

Two additional dash mounted power outlets to be furnished.

Yes No
Page # 2 of standard equipment

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

Yes 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 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 No
Page # 4 of FBS
5

Air compressor should have 37.4CFM capacity

Yes 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 No
Page # 4 of FBS

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

Yes No
Page # 4 of FBS

148" cab to axle.

Yes No
Page # 4 of FBS

Heavy duty cross - members with huck bolt fasteners throughout.

Yes No
Page # 4 of FBS

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

Yes No
Page # 4 of FBS

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

Yes No
Page # 4 of FBS
4

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

Yes 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 # 0 and 1 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 radicals Bridgestone, Goodyear, Michelin, Firestone, General, Continental, Yokohama.

Yes No
Page # 4 and 11 of FBS

3 4 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 No
Page # Local

Aluminum Cab Guard with rear window

Dealer Locally Installed Option

Yes 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 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 |
| APPLICATION PACKAGES | | | | WEIGHT (LB) | |
| MPK11K | CHASSIS CONFIGURATION PACKAGE | ONEBOX EATS, RIGHT FRONT BATTERY BOX, 18.4 GALLON (70L) DEF, DUAL 26" FUEL TANKS | | 0 | 0 |
| CUSTOMER/VEHICLE INFO | | | | WEIGHT (LB) | |
| 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 | 0 | 0 |
| | M84001 | INTENDED REGISTRATION LOCATION | 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 |
| ENGINE/TRANSMISSIONS | | | | WEIGHT (LB) | |
| | 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 |

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 VISCOS 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 |

TECHNICAL SPECIFICATION (cont.)



| CLUTCH/TRANS EQUIPMENT | | | | DESCRIPTION | WEIGHT (LB) | |
|------------------------|--------|-------------------------------------|--|---|-------------|-------|
| | | | | | 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 |
| FRONT AXLE EQUIPMENT | | | | DESCRIPTION | WEIGHT (LB) | |
| | | | | | 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 TRTURN | 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 |
| REAR AXLE EQUIPMENT | | | | DESCRIPTION | WEIGHT (LB) | |
| | | | | | 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 TRTURN | 0 | 0 |

TECHNICAL SPECIFICATION (cont.)



| | | | 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 |

TECHNICAL SPECIFICATION (cont.)



| | | | 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 |

TECHNICAL SPECIFICATION (cont.)



| CAB INTERIOR (A THRU G) | | | | DESCRIPTION | | WEIGHT (LB) | |
|-------------------------|--------|--|--|--|--|-------------|------|
| | | | | | | 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 | DOME LAMP, 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 |

| CAB INTERIOR (H THRU R) | | | | DESCRIPTION | | WEIGHT (LB) | |
|-------------------------|--------|-------------------------------|--|--|--|-------------|------|
| | | | | | | 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 |

| CAB INTERIOR (S THRU Z) | | | | DESCRIPTION | | WEIGHT (LB) | |
|-------------------------|--------|-----------------------------|--|--|--|-------------|------|
| | | | | | | 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 |

TECHNICAL SPECIFICATION (cont.)



| | | | WEIGHT (LB) | | |
|-------------------------|--------|--|---|-------------|-------|
| CAB INTERIOR (S THRU Z) | | | DESCRIPTION | FRONT | REAR |
| S | 148AA3 | WINDSHIELD WIPERS | 2 SPEED ELECTRIC MOTOR W/INTERMITTENT FEATURE | 0 | 0 |
| CAB - SLEEPER BOX | | | DESCRIPTION | WEIGHT (LB) | |
| S | 4ZXZ1X | SLPR. BOX - REFRIGERATOR PROV W/O SLEEPER BOX REFRIGERATOR | | 0 | 0 |
| CAB EXTERIOR | | | DESCRIPTION | WEIGHT (LB) | |
| S | 88AA1X | EMBLEM 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 |
| AERODYNAMIC DEVICES | | | DESCRIPTION | WEIGHT (LB) | |
| 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 |
| WHEELS & TIRES | | | DESCRIPTION | WEIGHT (LB) | |
| | 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 |
| COMMUNICATION SYSTEMS | | | DESCRIPTION | WEIGHT (LB) | |
| 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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TECHNICAL SPECIFICATION (cont.)



| | | | 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 FUELSENSE 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 COVERS | | | 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 |
| APPLICATION PACKAGES | | | | WEIGHT (LB) | |
| MPK11K | CHASSIS CONFIGURATION PACKAGE | ONEBOX EATS, RIGHT FRONT BATTERY BOX, 18.4 GALLON (70L) DEF, DUAL 26" FUEL TANKS | | 0 | 0 |
| CUSTOMER/VEHICLE INFO | | | | WEIGHT (LB) | |
| 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 | 0 | 0 |
| | M84001 | INTENDED REGISTRATION LOCATION | 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 |
| ENGINE/TRANSMISSIONS | | | | WEIGHT (LB) | |
| | 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 | J2EAAK | ENGINE BRAKE ACTIVATION | ENGINE BRAKE ACTIVATION, BASIC | 0 | 0 |
| S | 118AB8 | FAN DRIVE | BEHR FAN AND ELECTRONIC MODULATING VISCOS 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 TRTURN | 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 |

TECHNICAL SPECIFICATION (cont.)



| | | | 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";W/CONSPICUTY 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 |

TECHNICAL SPECIFICATION (cont.)



| | | | | 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 KMMPH (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 | WGXQ1X | 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 |
| PRICELIST DATE | | QUOTATION | | DATE | PAGE |
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TECHNICAL SPECIFICATION (cont.)



| SPECIALTY EQUIPMENT | | | | DESCRIPTION | | WEIGHT (LB) | |
|--------------------------------|--------|---|--|--------------------|--|--------------------|------|
| S | 1PAZ1X | SURVEILLANCE CAMERA OPTIONS (CA) | WITHOUT CAMERA | | | FRONT | REAR |
| CAB INTERIOR (A THRU G) | | | | DESCRIPTION | | WEIGHT (LB) | |
| 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 | DOME LAMP, 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 |
| CAB INTERIOR (H THRU R) | | | | DESCRIPTION | | WEIGHT (LB) | |
| 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 |
| CAB INTERIOR (S THRU Z) | | | | DESCRIPTION | | WEIGHT (LB) | |
| | 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 |

TECHNICAL SPECIFICATION (cont.)



| | | | | 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 | 4ZXZ1X | SLPR. BOX - REFRIGERATOR PROV W/O SLEEPER BOX REFRIGERATOR | | 0 | 0 |
| | | | | WEIGHT (LB) | |
| CAB EXTERIOR | | | DESCRIPTION | FRONT | REAR |
| S | 88AA1X | EMBLEM 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 | 400AGO | 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 (2) MACK RECTANGULAR SINGLE TRUMPET (ONE EACH SIDE OF CAB ROOF) | 0 | 0 |
| | 154AA3 | HORN - AIR | | 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 |

TECHNICAL SPECIFICATION (cont.)



| | | | | 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 KMH (10 MPH) | 0 | 0 |
| S | 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 40KMH (25MPH) | 0 | 0 |
| | 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 |

TECHNICAL SPECIFICATION (cont.)



| | | | | 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 | 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

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TECHNICAL SPECIFICATION (cont.)



| | | | WEIGHT (LB) | | |
|-------------------------------------|--------|---------------------------------|---|------|---|
| BASE WARRANTY & PURCHASED COVERAGES | | DESCRIPTION | 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 |

| | | | 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) | 9624 | 9313 |
|--------------------------------|-------|------|
| TOTAL WEIGHT (LB) | 18936 | |

MACK®



Mack Trucks
www.macktrucks.com

STANDARD EQUIPMENT

MACKSPEC



PI64T



BIGGER
. THAN IRON

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

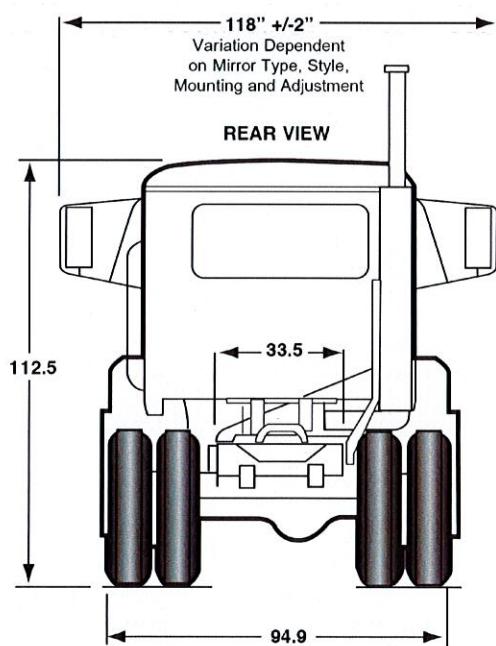
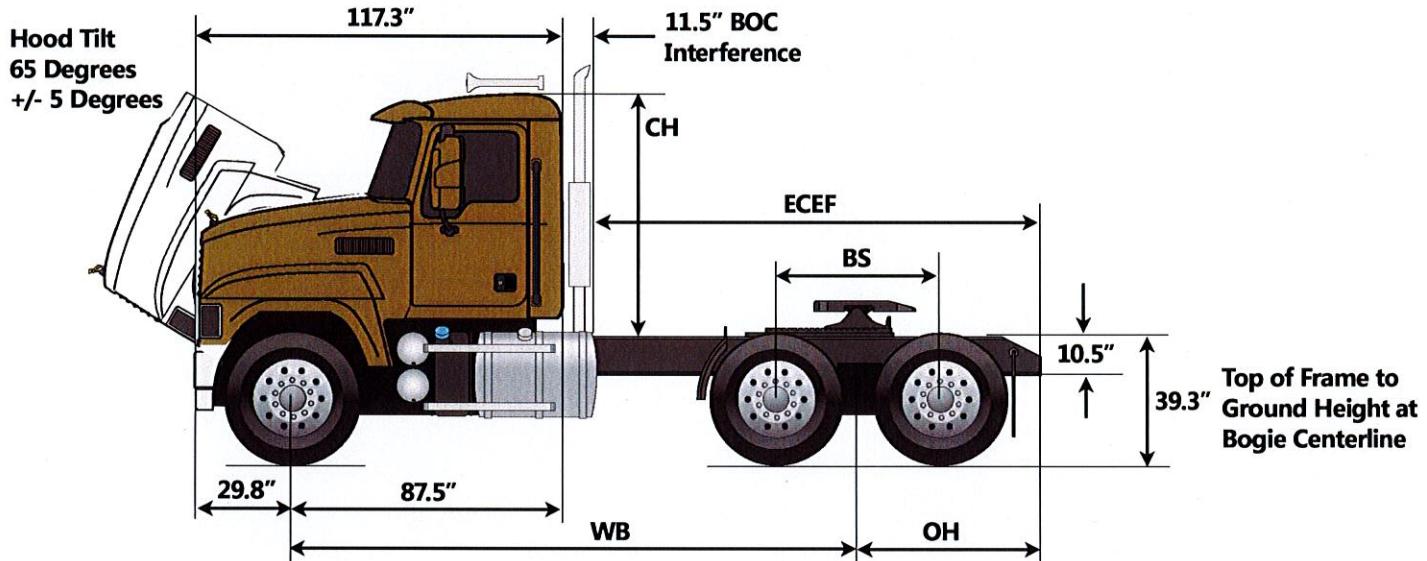
AIR/BRAKE

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

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

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 <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 |

| 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 | |

| 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 | 46,0000 lb. [20,886 kg.] |
| S462 | MACK | |
| S462R | MACK | |
| RT46-160 | MERITOR | |
| RT46-164EH | MERITOR | |
| D46-170 | DANA SPICER | |

November 16, 2017

SALES ENGINEERING
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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.

POWERTRAIN SPECIFICATION

Product Information

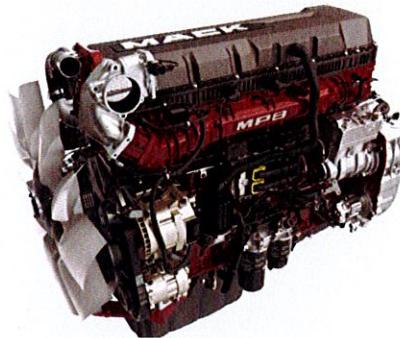


1001847 MP8-505C+, MAXICRUISE PLUS DIESEL ENGINE – US '21

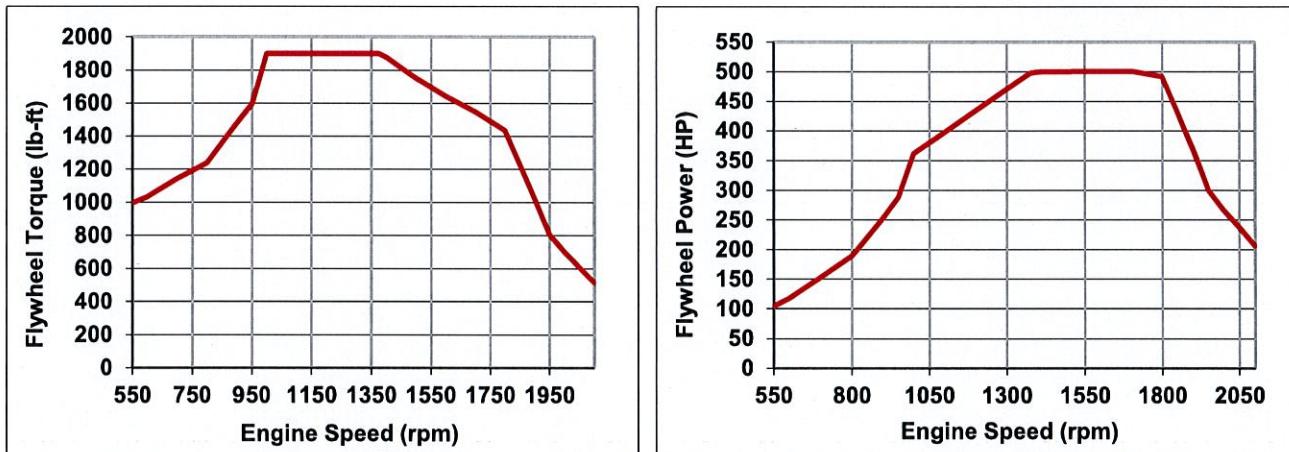
Updated: August 5, 2021

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.

- 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).

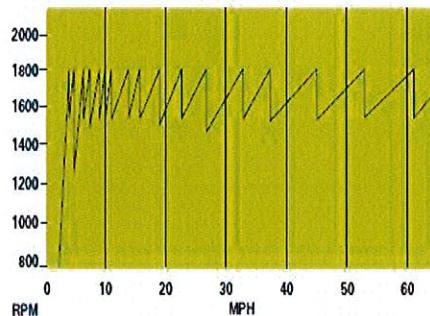
Low Inertia Concept:

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:



Based on 1800 RPM engine cruising at 1630 RPM / 65 MPH.

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.



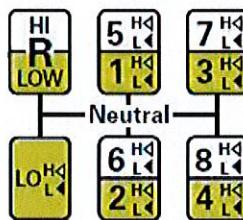
SED

PRODUCT INFORMATION

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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SED

PRODUCT INFORMATION



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 manufacturers 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



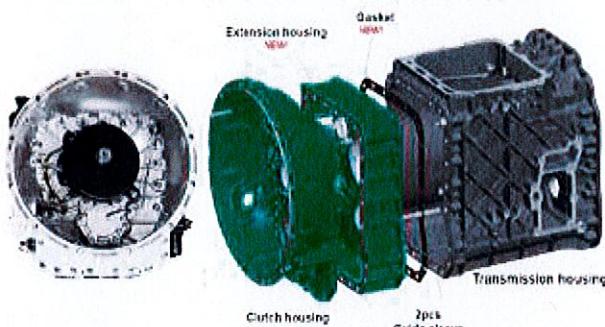
1361511 TMDMACK 14AFO-HD mDRIVE HD 14 SP, ULTRA-LOW CREEPER/ MULTI-SPEED REVERSE (OVERDRIVE) (136176)

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.

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.

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.

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

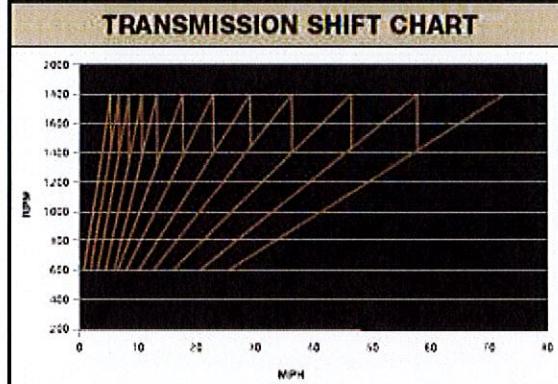
| OVERDRIVE SHIFTER FEATURES | | |
|--------------------------------|-----------------|-----------------|
| FEATURES | FLEET | PREMIUM |
| AUTO NEUTRAL | STANDARD | STANDARD |
| GRADE GRIPPER | STANDARD | STANDARD |
| GEAR SELECTION ADJUSTMENT | OPTIONAL | STANDARD |
| POWERLEASH ENGINE BRAKE | STANDARD | STANDARD |
| ENHANCED CONSTRUCTION SHIFT ** | OPTIONAL | STANDARD |
| EASY SHIFT ** | OPTIONAL | OPTIONAL |
| HEAVY HAUL SHIFT ** | OPTIONAL | STANDARD |
| CRUISE 'N BRAKE | OPTIONAL | STANDARD |
| LOW SPEED MODULATION CONTROL | STANDARD | STANDARD |
| MACKCELERATOR | 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) | 687 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 | 1 | |
| 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 |
| Creeper (1) | 32.04 | |
| Creeper (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 | 8.62 | |



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.

© 2017

believe | Low Speed Modulation Control

Provides smooth low speed control without the need to continually brake and accelerate.

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rmation,

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



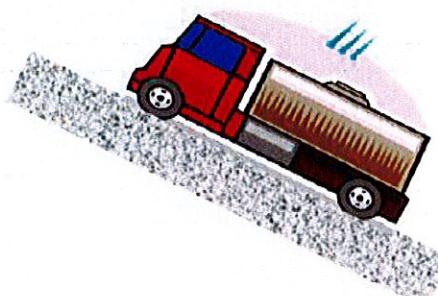
Grade Gripper is a safe, convenient way to hold a vehicle on-grade (road inclines and declines) without risk of roll-back or clutch burn-out.

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

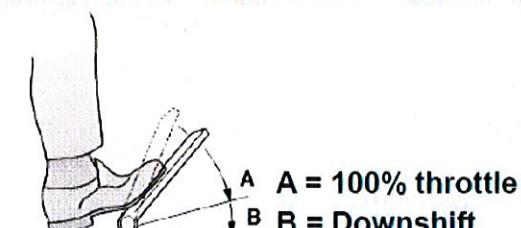
When the brake pedal is released, Grade Gripper maintains braking until the throttle pedal is applied, or until a 3 second timer expires.

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).



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

Updated:

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

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.

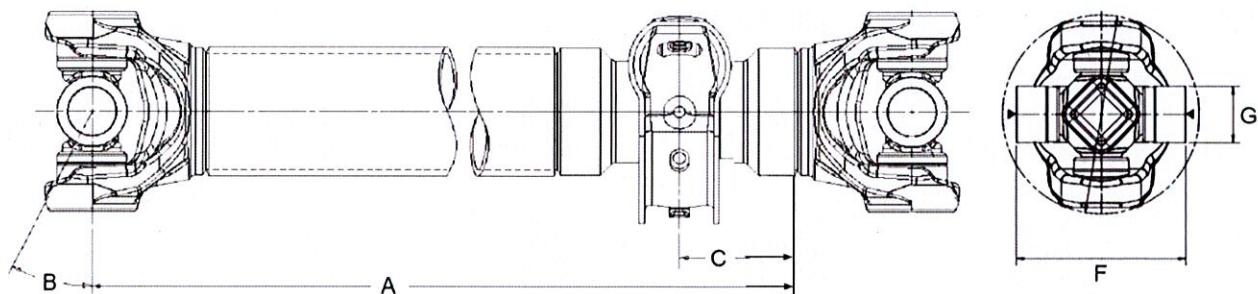
With torque ratings up to 30,000 Nm (22,127 lbs. ft.), this durable series of driveline systems is up to 35 pounds (15.9 kg) lighter than competitive products and provides the best balance specification in the industry.

- 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 | |
| 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

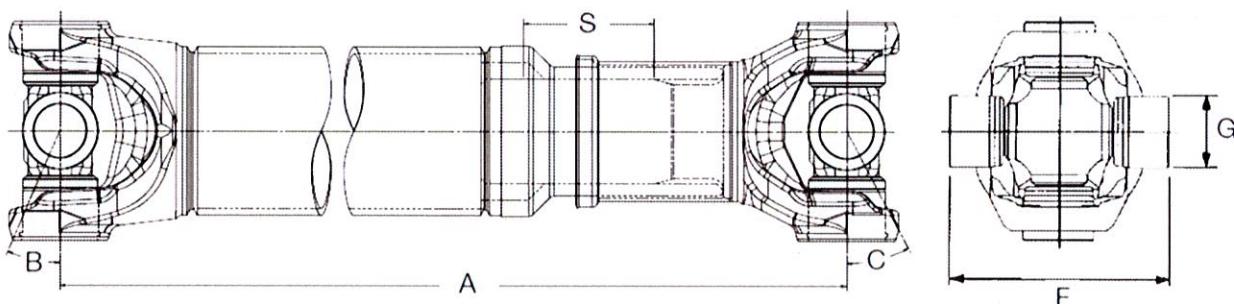
Handling heavy loads over the long haul has never been easier or more efficient, thanks to Dana's Spicer Life Series driveshafts. Now enhanced to offer even greater torque, durability, and savings, SPL® products offer 70 percent more power density than their nearest competitor and a 40 percent increase 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 | 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 |
| 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

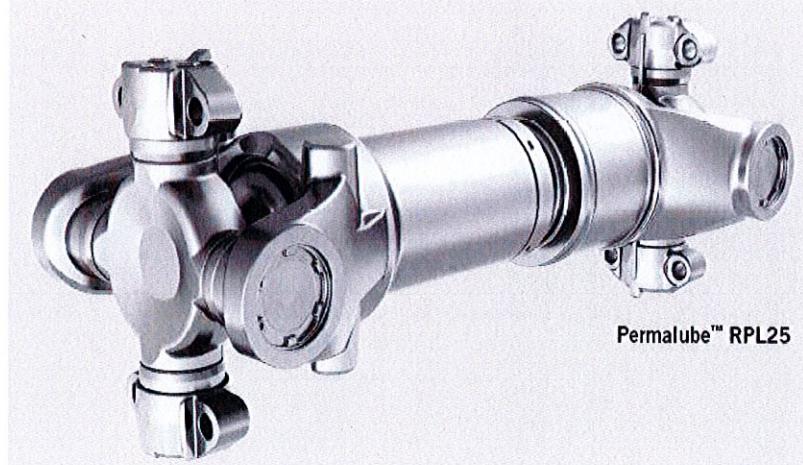
Mack Trucks, Inc.
Allentown, PA 18103
United States

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

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

| Specifications | RPL20 | RPL25 | RPL25SD | High-Torque Rated | |
|----------------------------|-------------------|-------------------|-------------|-------------------|---------|
| Tube Size (inches) | 4.095 x 0.18 | 4.59 x 0.18 | 4.69 x 0.23 | RPL35 | RPL35SD |
| 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

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.

FRONT AXLE

MACK®

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" in ³ [95 cm ³] |

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:

| | |
|----------------|---|
| FXL14.6 | 69.92" [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 |
| MAKE | 16.5" [419 mm] 5" [127 mm] |
| ACTUATION | Arvin Meritor |
| LINING THICKNESS | Air |
| LINING AREA, TOTAL | 0.85" [22 mm] Tapered |
| CHAMBER SIZE— Sq. In. Per Wheel | 157 in ² [2 026 cm ²] |
| SLACK ADJUSTER LENGTH | 1 @ 24 [155 cm ²] |
| BRAKE ADJUSTMENT | 5.5" [140 mm] |
| DUST SHIELDS | Self-Adjusting |
| | Optional |

SUSPENSION

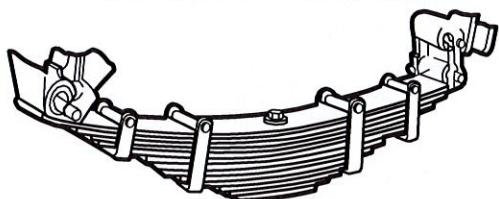
| SPRING CAPACITY (GRD. LOAD RATING) | SPRING SIZE | SPRING SIZE | | CHASSIS MODEL APPLICATION |
|---------------------------------------|---------------------|-------------------|--------------|------------------------------|
| | | LENGTH | WIDTH | |
| 14,600 lb. [6 623 kg] STD. | Taperleaf - Shackle | 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 |



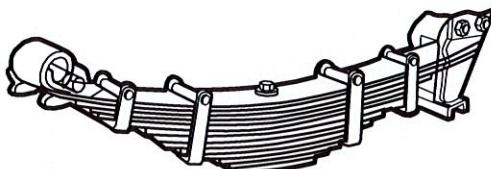
TAPERLEAF SHACKLE



TAPERLEAF EYE & SLIPPER



MULTILEAF SHACKLE



MULTILEAF EYE & SLIPPER

The information in this brochure was accurate as known 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.



SED

PRODUCT INFORMATION

Sales Engineering

Mack Trucks, Inc.
Allentown, PA 18103
United States

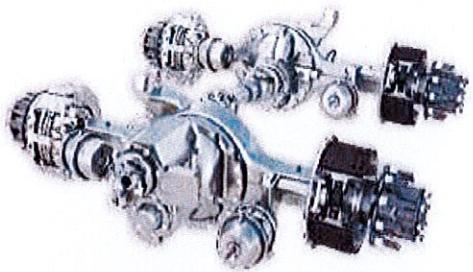
Phone: 800 868 6225
Fax: 610 351 8791

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.



| 14X EXCLUSIVE | Features/Options | Performance Benefits |
|---------------|---|--|
| | 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 vocation 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" outset 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 driveability |
| | Optional Driver-Controlled Differential Lock (DCDL) | Provides maximum traction and spinout protection under slippery conditions |

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

Hypoid Single-Reduction Axle Specifications

| RATINGS pounds (kg) | AXLE MODEL | GAW RATIO/HYDRO 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 SPLINE SEAT Inches (mm) | WHEEL-END SERIES | APPLICATIONS |
|------------------------|---------------|--------------------------------|---------------------|---|---|---|--|------------------------------------|---|---------------------|--------------|
| 45,000 (20,884) | RT-45-160P | 185,000 (83,900) | 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 (16.0) Wide Track Only Available as RT-45-154 Series | GS, HS, RS | |
| | RT-46-154P | | | | | | | | 0.63 (16.0) | | |
| | | | | | | | | | | | |

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.

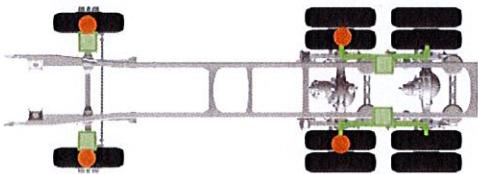
- **4S / 4M:** System delivers four ABS wheel speed sensors and four ABS modulator valves.
- **6S / 6M:** System delivers six ABS wheel speed sensors and six ABS modulator valves.
- **Automatic Traction Control (ATC) Override Switch:** Provides a dash-mounted switch, labeled as a Mud/Snow & ATC switch.



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

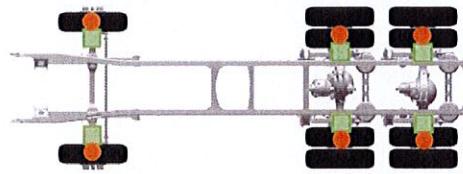
ATC: momentary override option: This function allows the driver to momentarily disable/override ATC for the duration of the ignition cycle, or second press of the switch.

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.

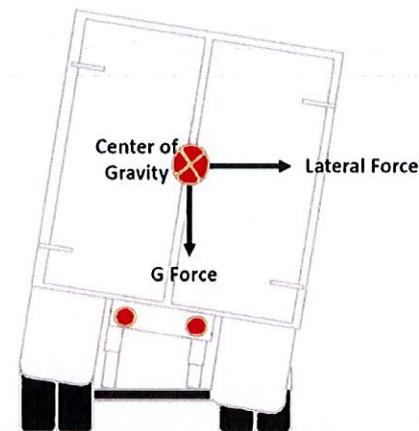
The primary parameters that indicate how the vehicle is handling are:

- 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.

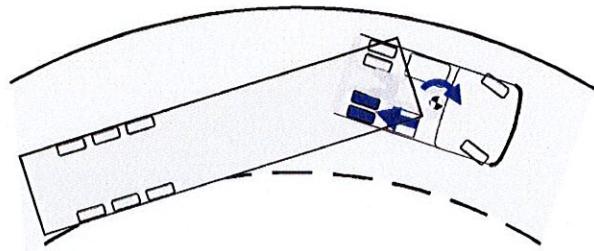
Product Information

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.

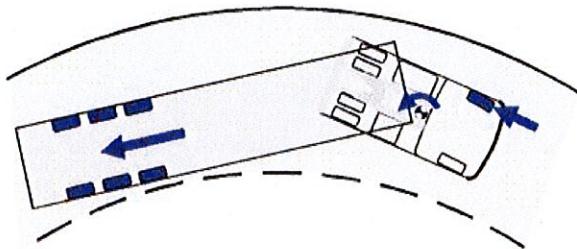


Mack Road Stability brakes the inner rear wheel and turns the trailer into the curve, enabling the front wheels to regain grip.

Example: Tractor skid with oversteering

When a vehicle with a trailer oversteers in a curve, the tractor's rear wheels loses 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.



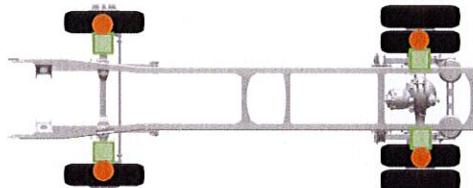
ABS speed sensor



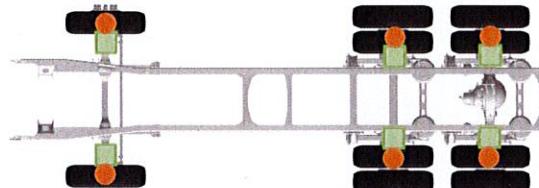
ABS modulator valve



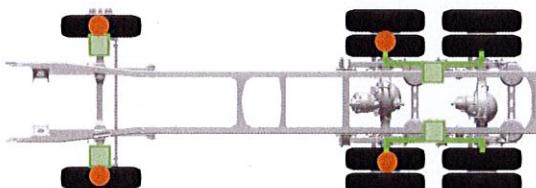
* Pneumatic plumbing combining two modulator valves



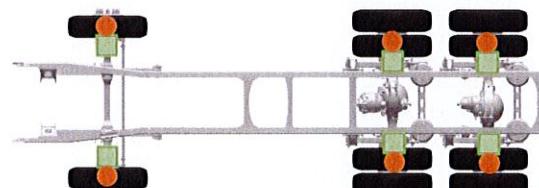
4X2 with 4S/4M



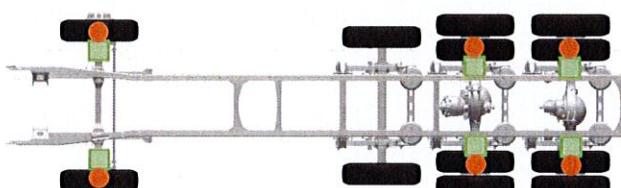
6X2 with 6S/6M



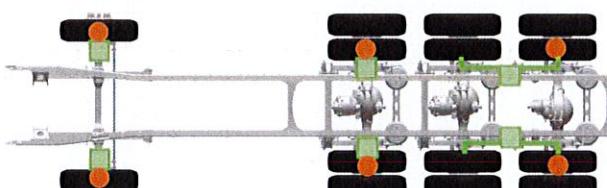
* 6X4 with 4S/4M



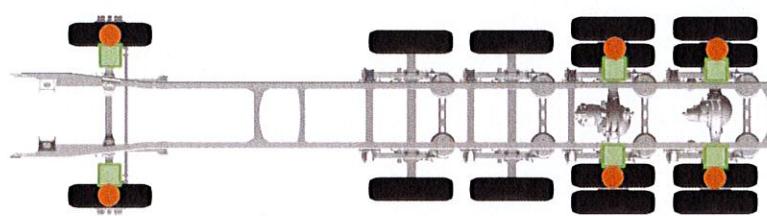
6X4 with 6S/6M



8X4 with 6S/6M



* 8X6 with 6S/6M



10X4 with 6S/6M

Product Information



Co-Pilot

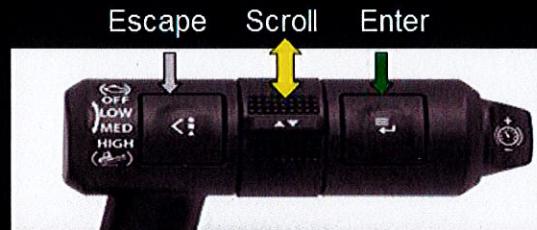
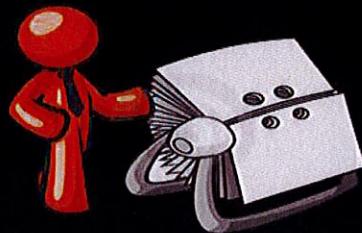
Affects: Anthem, Pinnacle, Granite
Related: Interior Trim (004)
Updated: May 30, 2017

DRIVER INFORMATION DISPLAY

Copilot Display Control - Driver Information Display (DID)

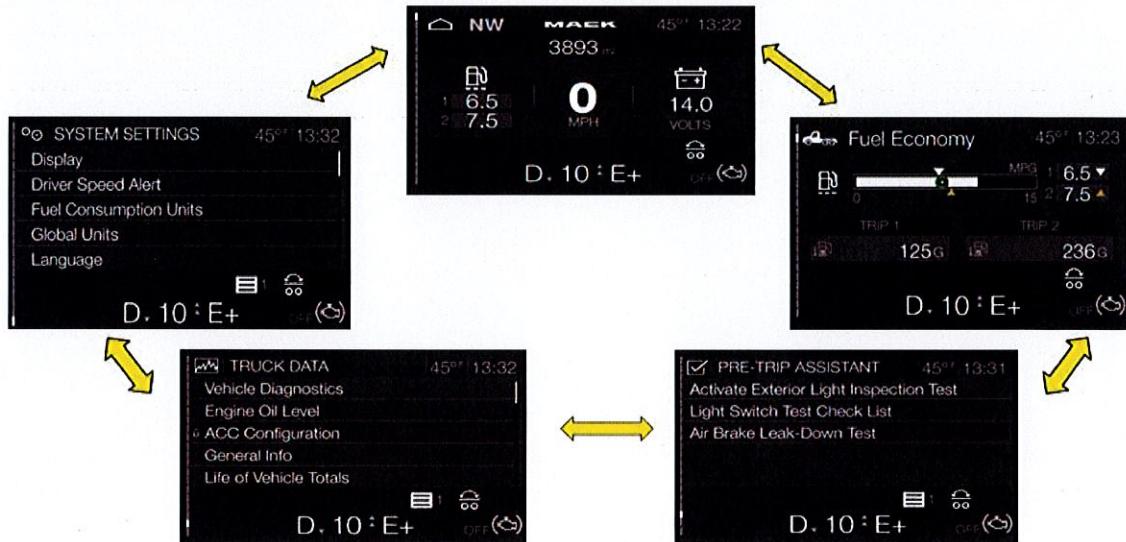
Simple and intuitive
Meets FMCSA driver distraction guidelines
One keystroke access

360 deg. scroll switch works like a Rolodex



DID SCREEN NAVIGATION

Menu screen navigation is in a circular format



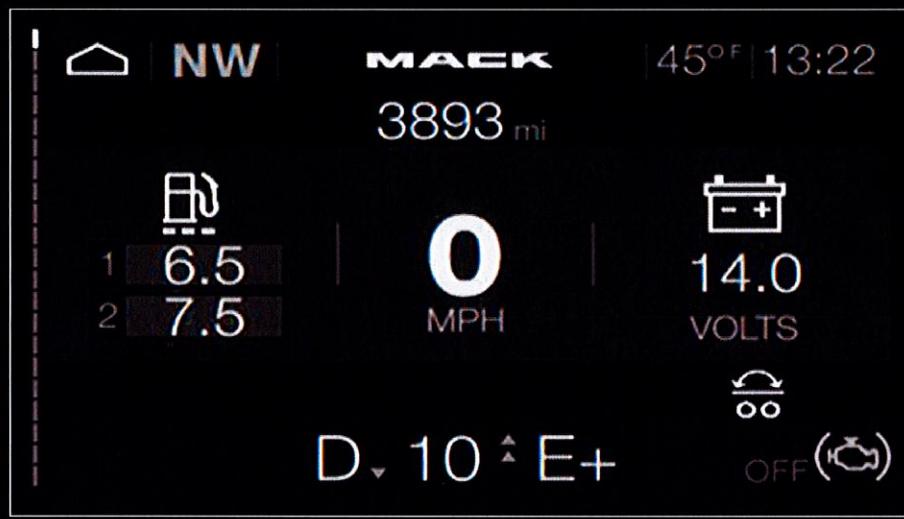


Product Information

Co-Pilot

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

HOME SCREEN



FUEL ECONOMY

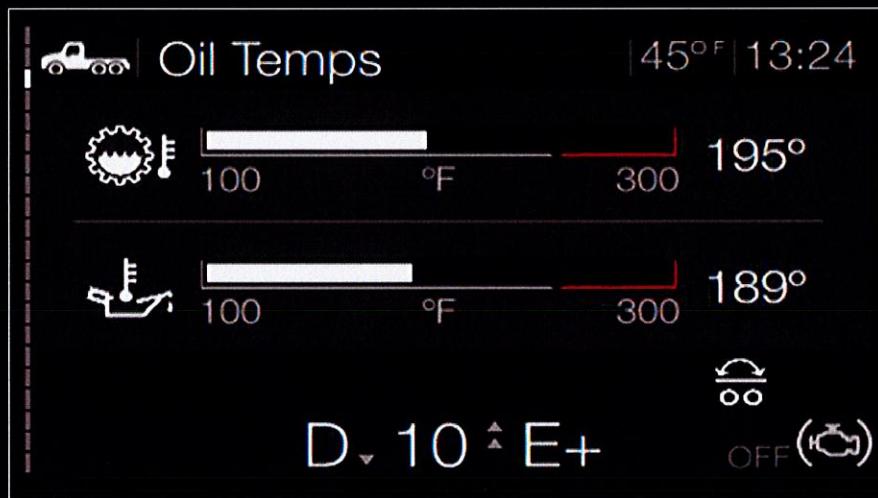


Product Information

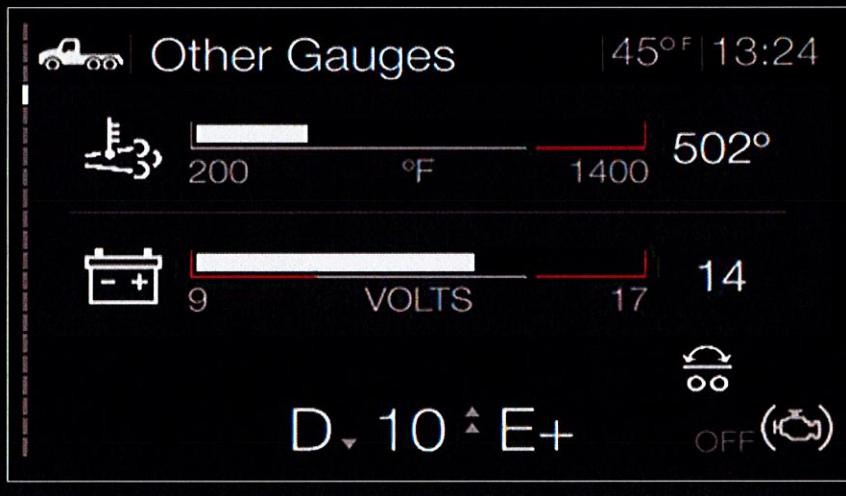
Co-Pilot

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

OIL TEMPERATURES



EXHAUST PYROMETER, VOLTmeter



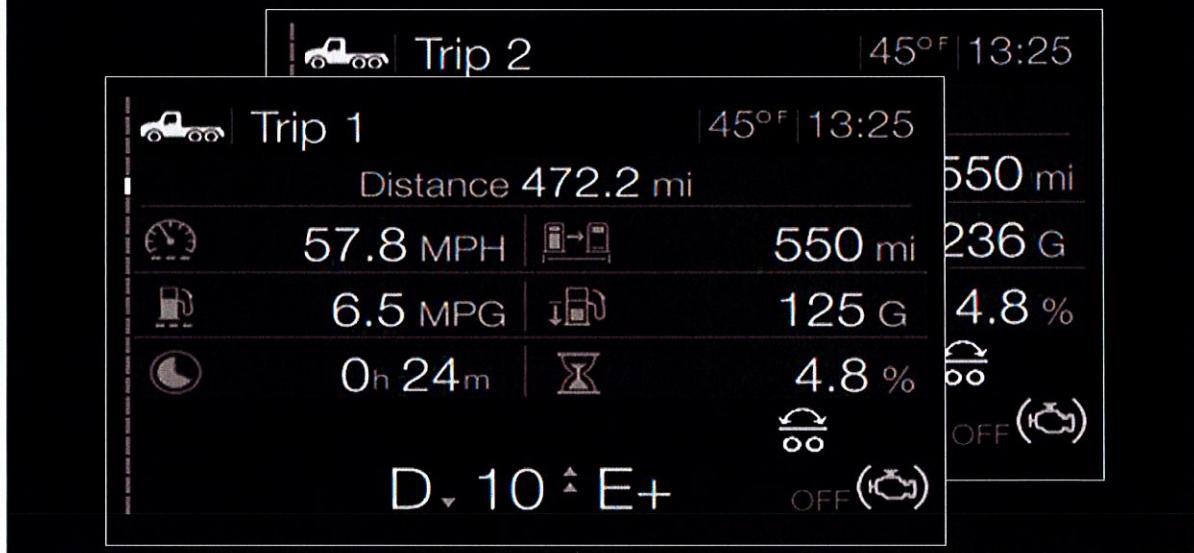
Product Information



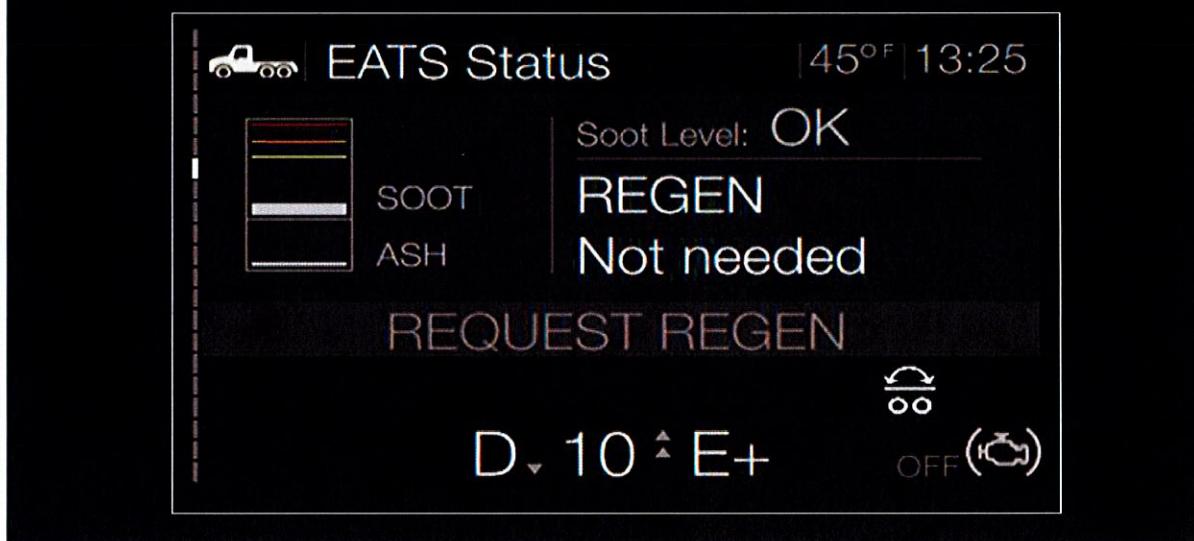
Co-Pilot

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

TRIP ODOMETER 1 & 2



EATS STATUS (ENGINE AFTERTREATMENT SYSTEM)



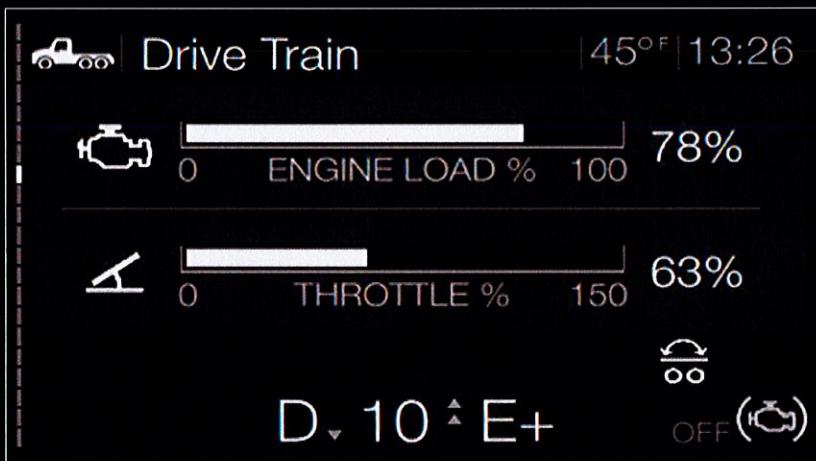
Product Information



Co-Pilot

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

DRIVE TRAIN LOAD, THROTTLE %



AIR SUSPENSION



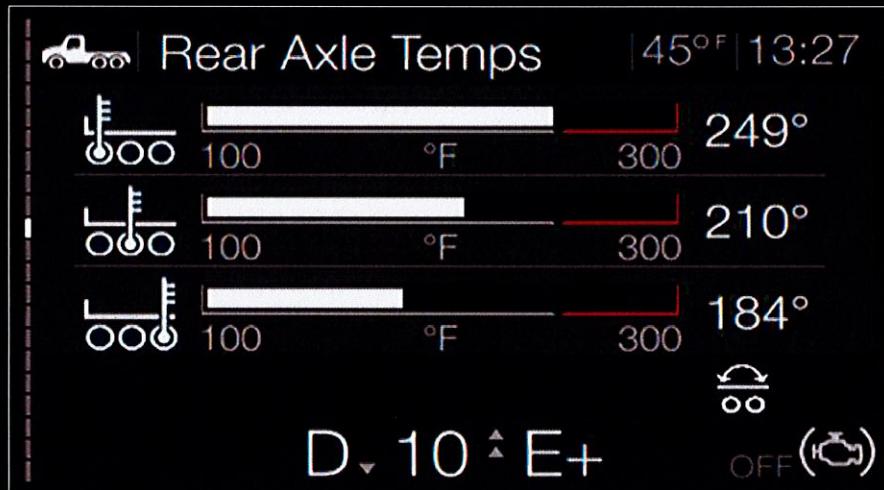
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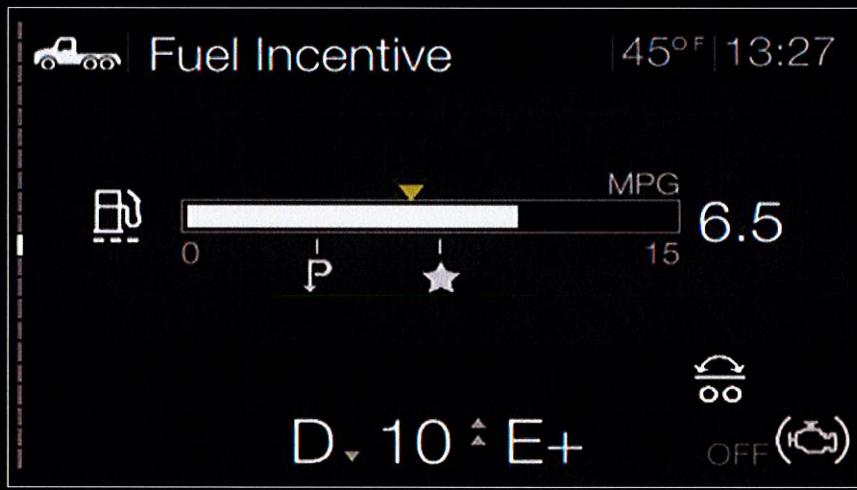
Co-Pilot

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

AXLE TEMPERATURES



FUEL INCENTIVE



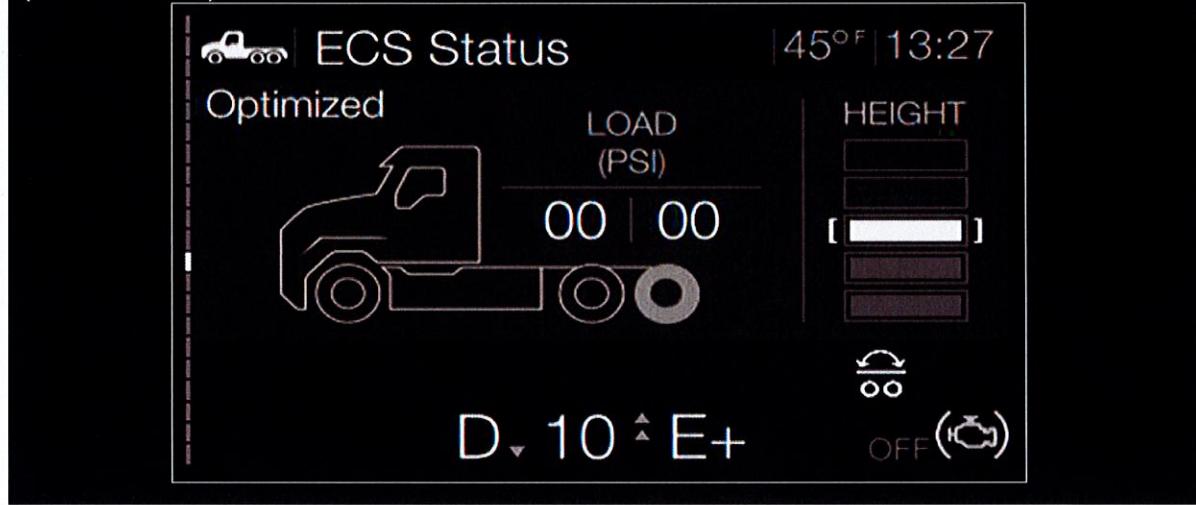
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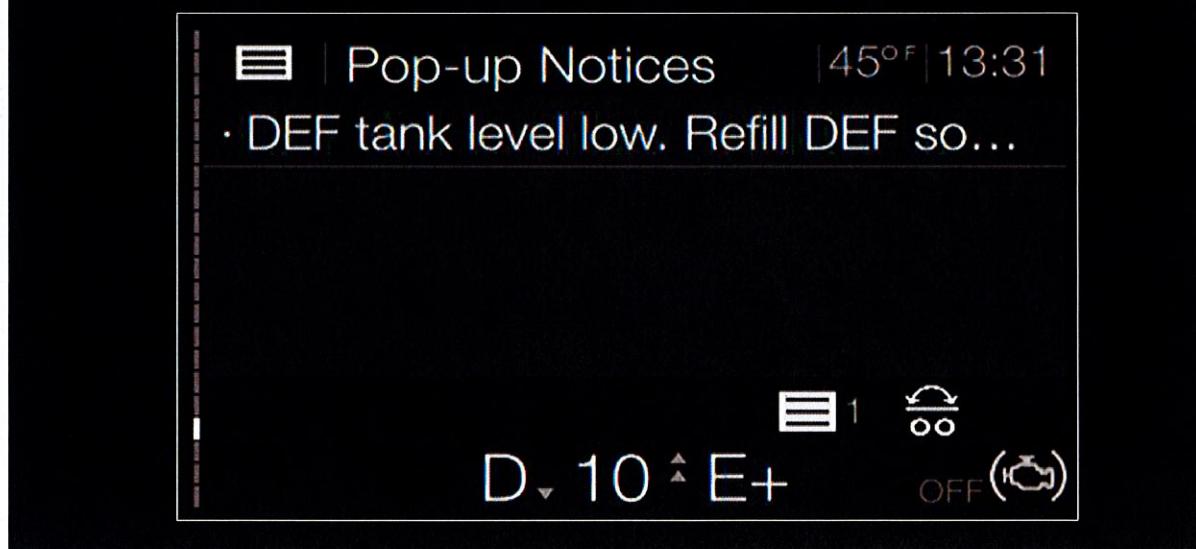
Co-Pilot

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

ELECTRONIC CONTROLLED SUSPENSION (6X2 ONLY)



POP-UP NOTICES



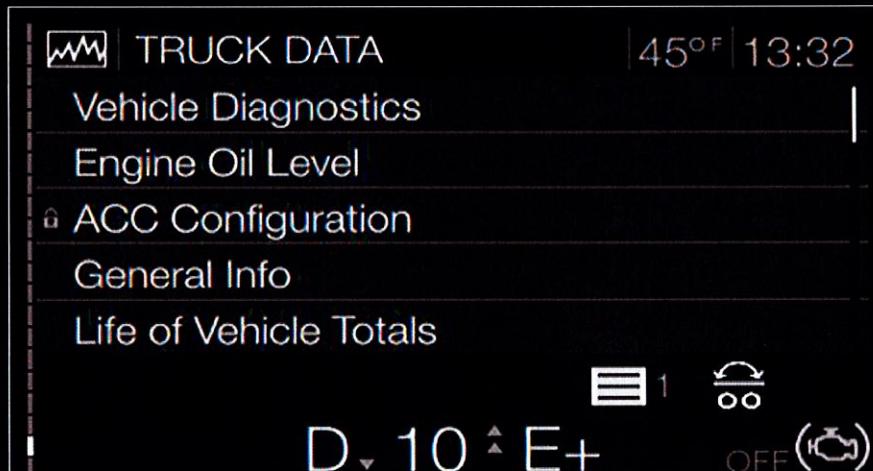
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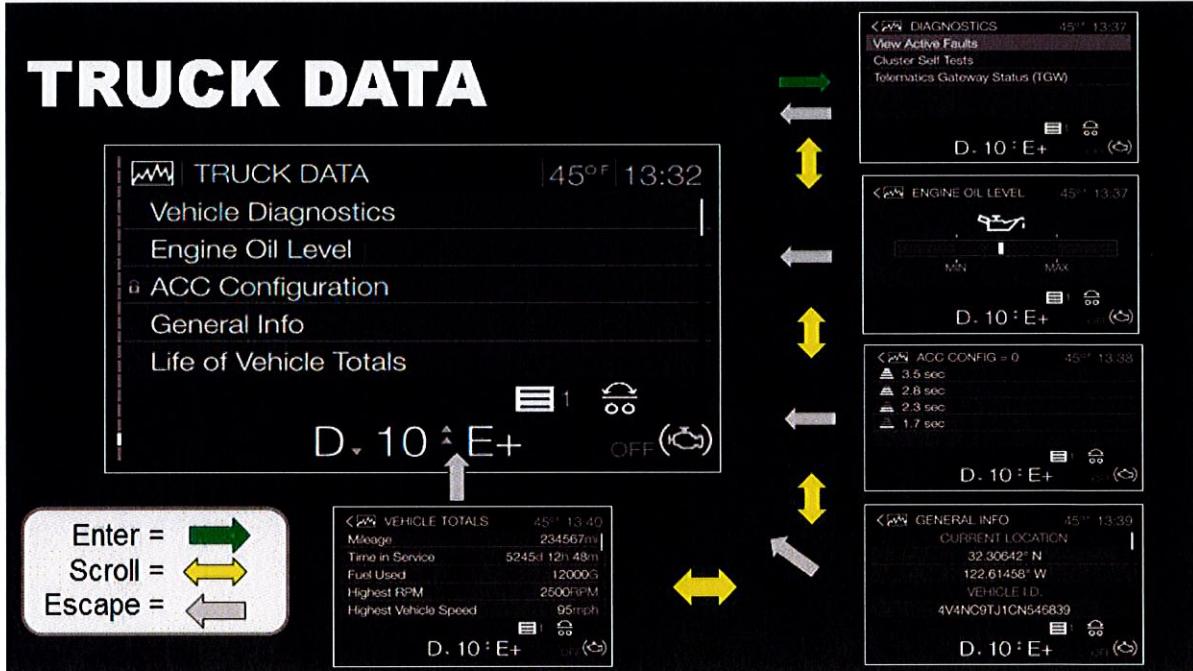
Co-Pilot

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

TRUCK DATA



TRUCK DATA

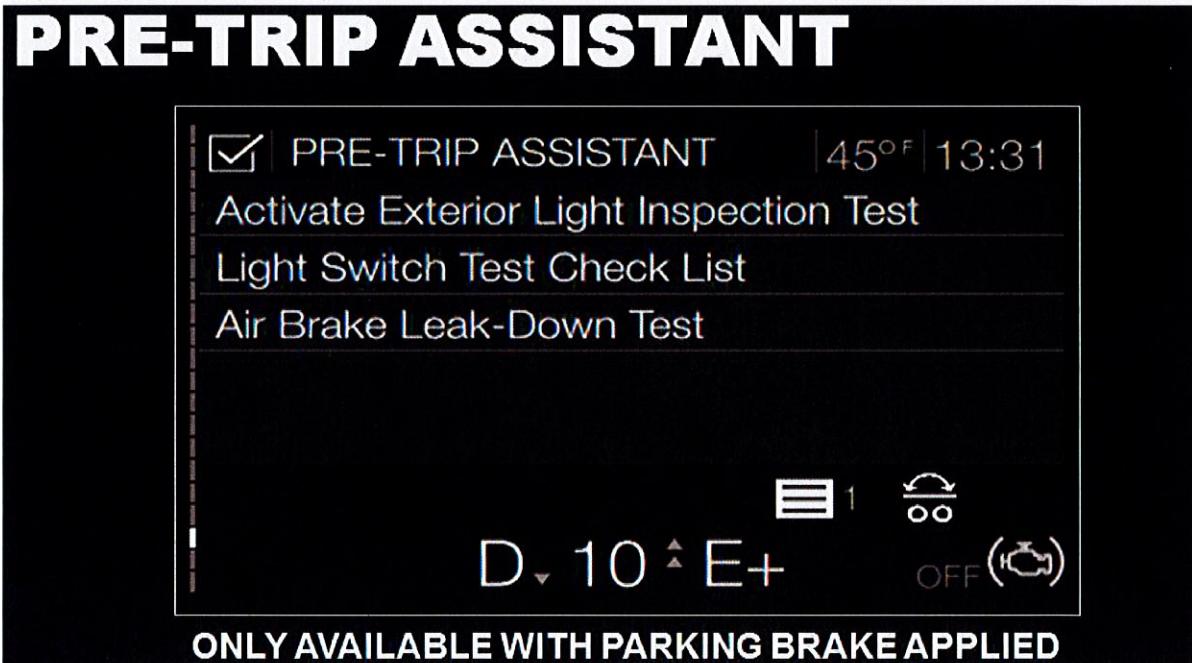
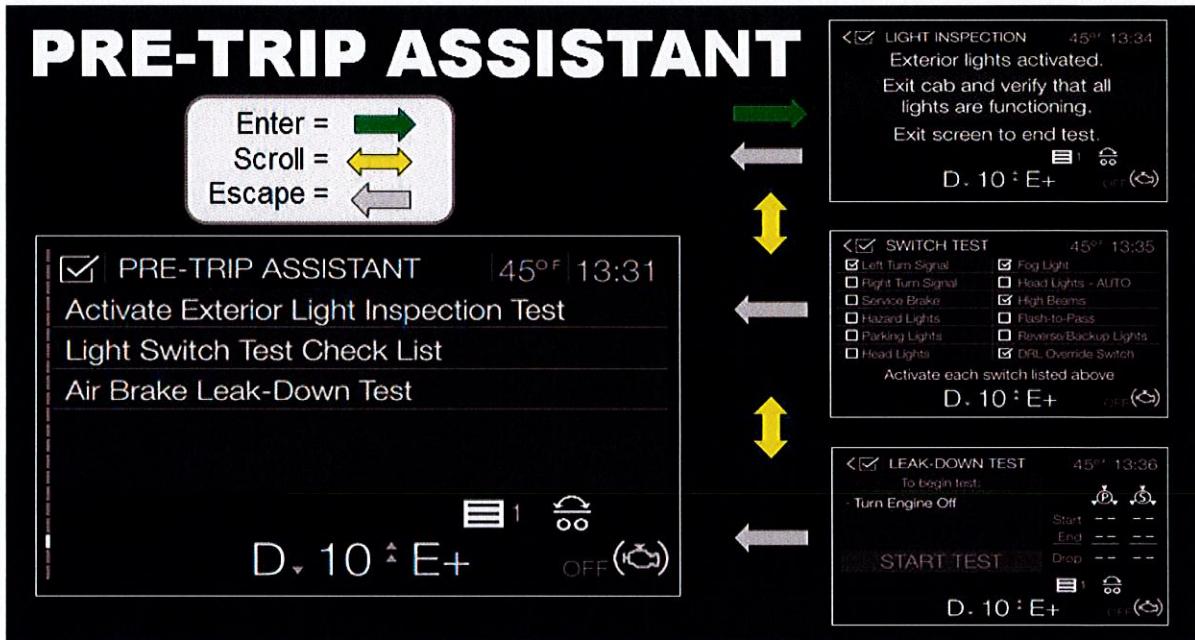




Product Information

Co-Pilot

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



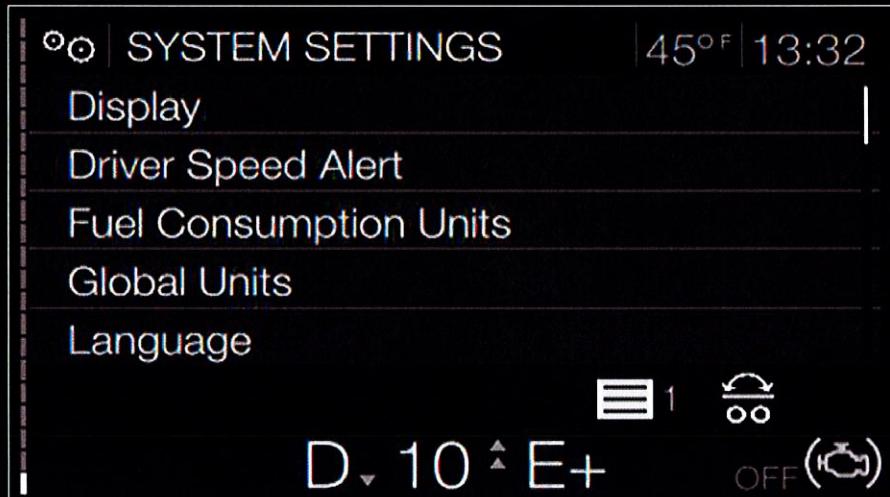
Product Information



Co-Pilot

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

SYSTEM SETTINGS



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 \leq 63,000 lbs. (\leq 28 metric tons) <i>or</i> GCWR \leq 110,000 lbs. (\leq 50 mt.) | <i>Vehicle must have</i> GVWR \leq 80,000 lbs. (\leq 36 mt.) <i>or</i> GCWR \leq 143,000 lbs. (\leq 65 mt.) | <i>Vehicle must have</i> GAWR $>$ 52,000 lbs. ($>$ 23.5 mt.) <i>or</i> GVWR $>$ 80,000 lbs. ($>$ 36 mt.) <i>or</i> 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 | 36 months or 350,000 miles (563,270 km) Covered Components are as follows: • Manual Transmission – Transmission assembly • Rear Axle – Differential carrier assembly & axle housing • Front Non-Drive Steer Axle – Axle beam, steering knuckle, & tie rod | • Driveline – Bearings, hangers & shafts | 12 months or 100,000 miles (160,934 km) |
| | Allison Automatic Transmissions are not covered under this warranty certificate. See paragraph 19 on reverse side. | | |
| 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) |
| | Covered only where metal is perforated from the inside to the outside. See paragraph 18 on the reverse side. | | |
| Frame Rail / Crossmembers | 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.

MACK®

Mack Trucks, Inc.
Post Office Box 26259
8003 Piedmont Triad Parkway
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® MP7, 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) |

Continued on Page 2

| 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 <u>NOT</u> covered. Normal maintenance adjustments are <u>NOT</u> 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 <u>NOT</u> covered. Normal maintenance adjustments are <u>NOT</u> covered. | |
| Valve Cover | | |
| Valve Yokes (Bridge) and Pins | Failures resulting from the valve adjustments not being maintained properly are <u>NOT</u> covered. Normal maintenance adjustments are <u>NOT</u> 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 <u>NOT</u> covered. Normal maintenance adjustments are <u>NOT</u> 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 | |

Continued on Page 3

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.

MACK®

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

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 (ECU) | | 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

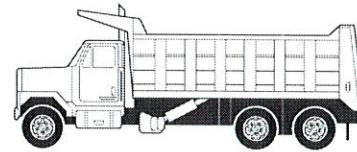
October 2025



Powering Business Worldwide

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SUPPORT

Construction



Construction

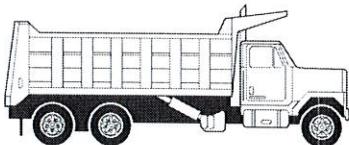
- Movement of material to and from a job site.
- Or vehicles used in transfer / relocation on a maximum grade of 8%, typically greater than 10 miles per trip.
- 90% of loaded operation on road surfaces of concrete, asphalt, gravel, crushed rock or hard packed dirt and up to 10% of loaded operation into 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 | |
| Electronic Clutch Actuator | Electronic Clutch Actuator | |
| 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.

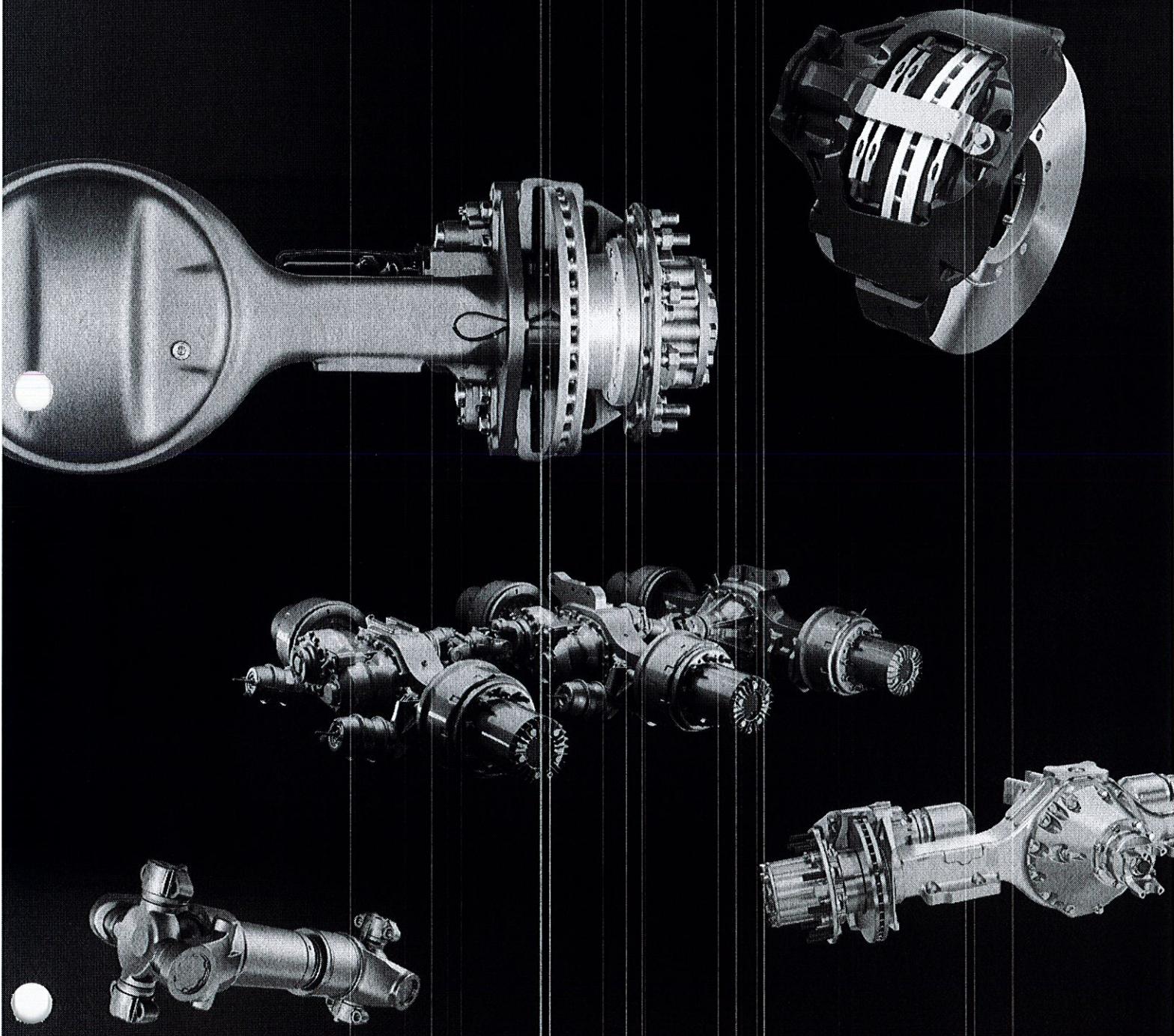
Note 4: FS Series synchronizer wear coverage (synchronizers with Eaton Friction Material) is only available for transmissions that use Eaton approved synthetic lubricant in conjunction with either a Solo Adjustment Free or a 365 MM Clutch (Transmission Robust Package). Without stated package requirements, 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 |
|-----------------|---|---|
|-----------------|---|---|

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 |
| AxePak ⁵ | 5/Unl/P&L |
| AxePak ⁷ 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 AxePak⁷ 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 |
|------------------------------------|-----------|

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

Meritor Tire Inflation System

| | |
|-----------------|------------------|
| MTIS Components | 5/Unl/P, 1/Unl/L |
|-----------------|------------------|

Trailer Air Suspension Systems

| | |
|---|------------------|
| MPA40 (Tandem Axle Parallel) 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 Parallel) ¹ | |
| 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 |
|--|-----------|

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

Rear Drive Axles – 1/Unl/P&L

| | |
|---------|---------|
| RND-14H | RND-16A |
|---------|---------|

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 TM | 3/Unl/P&L |
| Q+ Drum Brake ^{TM2} | 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 ^{TM1} | 12-Years or Wearable Life/P |
| EX+ Air Disc Brake ^{TM3} | 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 |
| AxePak5 | 5/Unl/P&L |
| AxePak7 ⁶ | 7/Unl/P&L |
| AxePak10 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 AxePak7 wheel end system, coverage on MTIS thru-tee and stator is 7/Unl/P, 1/Unl/L.

⁷ AxePak10 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 Parallelagram) 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 |
|--|-----------|

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 |
|-----------------|------------------|

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/startups (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/Uni/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/Uni/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 |
|---------|---------|

Drivelines

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

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 |
|----------------------------|------------------------------|----------------------------|----------------------------|--------|

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 |
|-----------------|------------------|

FIRE AND EMERGENCY WARRANTY INFORMATION

Fire and Emergency Vehicles

- Aerial Ladder Truck
- Ambulance
- Crash Fire Rescue (CFR)
- Rapid Intervention Vehicle (RIV)
- Aerial Platform
- Command Vehicle
- Pumper
- 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/Uni/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/Uni/P&L

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| MX-19-140 | MX-21-140 | MX-21-160 | MX-23-160 | MX-23-810 |
|-----------|-----------|-----------|-----------|-----------|

Rear Drive Single Axles – 5/Uni/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/Uni/P&L if PreSet by Meritor.

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

Brake Components

| | |
|--|-----------|
| Cam | 3/Uni/P |
| Q+ Drum Brake™ | 3/Uni/P&L |
| ASA | 3/Uni/P |
| Hubs/Cast Drums and Other Wheel-End Components | 1/Uni/P |
| Hydraulic Disc Brakes | 1/Uni/P |
| All Other Brakes | 1/Uni/P |
| EX+ Air Disc Brake™ ¹ | 2/Uni/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/Uni/L |
| MXL | 3/350/P, 1/Uni/L |
| 155N | 1/Uni/P |
| 92N | 1/Uni/P |
| | |

FIRE AND EMERGENCY WARRANTY INFORMATION

Transfer Cases – 1/Uni/P

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

PTO – 1/Uni/P&L

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

TRANSIT BUS WARRANTY INFORMATION

Transit Bus Vehicles

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

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-941¹ MFS-12-155 MES-13-155

¹ Commuter coach only – 2/Uni/P&L

Rear Drive Single Axles – 5/300/P&L

RS-23-160 71163 79163 RC-23-162¹ RC-23-165¹ RS-21-160
RC-23-161

¹ Commuter coach only – 2/Uni/P&L

Tag Axles – 2/Uni/P&L

MC-14002 MC-16003 FH-946

Center Non-drive Axles – 5/300/P&L

MC-26000 71063 79063

Gearboxes – 1/Unl/P&L

MGX-450 MGX-451 MGX-538

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 |

Drivelines

| | |
|-----|------------------|
| RPL | 3/Uni/P, 1/Uni/L |
| 92N | 1/Uni/P&L |
| MXL | 1/Uni/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.

OFF-HIGHWAY SERVICE WARRANTY INFORMATION

Industrial and Off-Highway Service Vehicles

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

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

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.

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

(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.

DEALER BUSINESS LICENSE

Master Dealer License

2026 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

Primary Business Location:

PO BOX 820 FULTONDALE AL 35068-0820
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 (through 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.