

# **NAVISTAR<sup>®</sup>**

## **Introduction to Pre-Delivery Inspection**

**Study Guide  
TMT-100818**



**MAXXFORCE**  
INTERNATIONAL DIESEL POWER

**MWM INTERNATIONAL**  
MOTORES

**NAVISTAR<sup>®</sup>**  
PARTS

**NAVISTAR<sup>®</sup>**  
ELECTRONICS

**NAVISTAR<sup>®</sup>**  
FINANCIAL

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# Safety Information

Before we begin inspection, diagnostics, and repair, keep in mind that proper service techniques, environmental concerns and safety are the most important parts of this process. Be sure to follow each warning, caution and note as they are presented throughout this training program. Warnings indicate procedures and safety measures that must be followed precisely to avoid the risk of death or personal injury to yourself or other shop personnel, and to avoid damage to the vehicle, equipment or components. Cautions indicate procedures that you must follow exactly to avoid equipment or component damage. Notes indicate operations, procedures or instructions that are important for proper service.

When performing service work of any kind, always protect the interior of the vehicle by using a paper floor mat, a steering wheel cover, and a seat cover.

Use a suitable pan to catch any fluid when disconnecting components. All component and line openings should be immediately plugged during removal and remain so until reinstallation to prevent contamination by dirt, moisture or other foreign material. Be sure that



## WARNING

**Before beginning diagnostic or service procedures, always shift the transmission to park or neutral, set the parking brake and block the wheels.**



## WARNING

**Always provide proper ventilation when operating an engine in an enclosed area. Inhalation of exhaust gases can be fatal.**



## WARNING

**When working on the vehicle, keep the work area and tools as clean as possible. Also, clean all connections before disconnecting or removing components.**

**WARNING**

**When working on the vehicle, always wear safety glasses with side shields, hearing protection, and chemical-blocking nitrile gloves. Be sure you know the location of an emergency eyewash station.**

you know the location of properly rated and charged fire extinguishers.



## Overview

The purpose of this program is to help you deliver quality International vehicles to our customers. It shows you how to perform general inspection tasks, what to look for on specific vehicles, and how to complete the Pre-Delivery Inspection Report Form.

To receive credit for completing this program, you are required to take a post-test on ISIS®/Education/Service/Online Testing.

## PDI Resources, Documents, and Considerations

## Module 1

### Overview

This module is designed to cover the resources, documents, and considerations involved with a vehicle pre-delivery inspection, or PDI. It demonstrates how to fill out forms while preparing each unit for delivery to the end user. Initially, this process may seem somewhat complex, but as you become better acquainted with the forms and procedures, new vehicle processing becomes easier. By catching rare manufacturing defects or problems caused by the vehicle delivery

***“By catching rare manufacturing defects or problems caused by the vehicle delivery company, value for the customer is increased...”***

company, value for the customer is increased, vehicle downtime is decreased and efficiency is improved. Most importantly, the PDI is our last chance to make sure the vehicle is in proper operating condition and meets the customer's expectations.

## Getting Started

### *When to Begin PDI*

***“...normal pre-delivery inspections and adjustments should not be performed until the vehicle is sold.”***

Equipment or body manufacturers can delay delivery to the customer. Because of this, normal pre-delivery inspections and adjustments should not be performed until the vehicle is sold and prepared for delivery to the customer.

### *PDI Manual*

First, verify your copy of the Pre-Delivery Inspection Master Instruction Manual is current. If not, discard it and print the current copy from ISIS®.

### *PDI Form*

Next, print the Pre-Delivery Inspection Report Form for the specific vehicle you are inspecting.

## The Manual

### *Referencing PDI Tasks*

Use the Pre-Delivery Inspection Master Instruction Manual along with the applicable PDI Report Form when inspecting a vehicle. If a question arises during an inspection, use the Report Form task reference number to find the corresponding procedure in the Master Instruction Manual.

### *Determining PDI Labor and Materials*

The PDI Master Instruction Manual describes what labor and materials are paid for during the PDI. Consumables—such as windshield washer solvent, diesel fuel, chassis grease and coolant additives—are not reimbursed as a warranty expense. Labor and materials outside of those considered part of the PDI or outside those items specifically required in the Master Instruction Manual may be charged to PTD or Prior to Delivery Warranty. Details of any items charged toward PTD Warranty should be listed in the Comments Section on the PDI Report Form.

***“Consumables...  
are not reimbursed  
as a warranty  
expense.”***

### *Additional Resources*

All specifications, such as torque values, are listed in the Pre-Delivery

Inspection Manual or through other references on ISIS®.

## **The Report**

### ***Completing the Report Header***

Be sure to fill out the Pre-Delivery Inspection Report Form completely, including the vehicle model, assembly plant, PDI facility name, number and location, VIN, repair order number, and customer name and location.

### ***Completing the Report Body***

Be sure to follow the guidelines in the PDI Master Instruction Manual. If the line item is complete or the components are in acceptable condition, place a mark in the box in the “Accept As Delivered” column. If the line item cannot be completed or if the components are not in working condition, mark the box in the “Rework Required” column. Describe the problem in the “Comments” section at the bottom of the form. After the concern is repaired, it must be re-inspected. Make sure any concerns are effectively repaired before checking the “Accept As Delivered” box. Because there may be more than one technician performing the PDI, there are four boxes for initials on the PDI Report Form. Initial and date the appropriate

box after completing the inspection and after inspecting any repairs.

### ***Documenting Quality Issues***

Also, use the form to document repairs or adjustments that fall outside of the normal pre-delivery inspection. This serves as an important notification of vehicle quality issues for factory and engineering managers to resolve.

***“...use the form to document repairs or adjustments that fall outside of the normal pre-delivery inspection.”***

### ***Report Form Routing***

Once an inspection is completed, the corresponding original Report Form should be retained at the PDI facility. Send a copy of the report according to the instructions on the form.

## NOTES

[illegible]

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## NOTES

This image shows a full page of blank handwriting practice paper. It features approximately 30 evenly spaced horizontal blue lines across the entire page, providing a guide for letter height and placement. The lines are uniform in color and thickness, set against a plain white background. There are no margins, text, or other markings present.



# PDI Tasks Common On All Vehicles

## Module 2

### Overview

This module shows you the steps involved in a pre-delivery inspection for most vehicles. It shows you what to look for to ensure the vehicle is ready for delivery to the customer.

These items are not in any particular order of operation. Always review your PDI Report Form for the correct order of operation for the vehicle you are inspecting.

Keep in mind that the PDI Master Instruction Manual, your service lead person and ISIS® are your primary resources for information. Again, refer to the manual or ISIS® for all technical specifications, such as torque values. Also keep in mind that the your PDI work will include a road test with inspection of certain items before, during, and after engine operation. For example, the engine compartment must be checked both before and after the road test.

***“...the PDI Master Instruction Manual, your service lead person and ISIS® are your primary resources for information.”***

## Outside the Vehicle

### *Starting PDI*

***“Start your PDI by researching the VIN for recalls and updates.”***

Start your PDI by researching the VIN for recalls and updates. Check for AFCs and recalls, using the last eight digits of the VIN. Also, check the calibration status link for required engine and ESC updates.

### *Parking the Vehicle*

Park the vehicle on a level surface in a well-lit location and turn the key to the off position. Block the wheels. On vehicles with air brakes, release the parking brake. Verify the air pressure gauges meet or exceed the specification in the Master Instruction Manual or on ISIS<sup>®</sup>.

### *Connecting the Battery Charger*

Verify the batteries are fastened securely in the battery box. Connect a Smart Battery Charger to the battery pack. The battery cable connections should be tight and coated with dielectric grease. Make sure the cables do not kink, crimp, pinch or rub when the battery box moves. Begin the automatic charge at full capacity.

## ***Installing Loose Components***

Install any loose components shipped with the vehicle. These could include tailpipes, cargo nets, trailer connections, air fairings between tailpipes, CB antennas or any other equipment not installed at the factory but shipped with the vehicle.

## ***Ride Height***

Verify the chassis ride height is within the specification found in the Master Instruction Manual or on ISIS<sup>®</sup>. Remove the wooden block supporting the cab and connect the height control valve linkage.

### **NOTE**

**Installation of loose components needs to be completed during the PDI process before inspecting the respective areas or components.**

### **NOTE**

**Pre-fitted tailpipes should be inspected for proper installation.**

### **NOTE**

**The cab air spring(s) may not inflate, depending on the amount of pressure in the system. Refer to the Pre-Delivery Inspection Master Instruction Manual or ISIS<sup>®</sup> for the proper specification.**

**CAUTION**

**Turn the front wheels slightly to the right to avoid scratching the vehicle body.**

**NOTE**

**To aid in the lubrication of the steering shaft later on in the PDI, straighten the front wheels after completing this procedure.**

### ***Tires and Wheels***

Check the pressure on all tires to ensure they meet the specification found in the Master Instruction Manual or on ISIS®. Verify all stem caps are properly installed. Tighten all lug nuts—following the proper tightening sequence—to the specification found in the Master Instruction Manual or on ISIS®. Tighten all axle flange nuts to the proper specification, following the proper tightening sequence. The oil level on oil-filled front hubs should be between the indicators. Add the appropriate oil to bring the level to the indicator circle on the hub.

### ***Paint and Body***

Remove any protective coverings from the entire vehicle, except for plastic seat covers. Clean off any adhesive residue after the coverings are removed.

Painted surfaces should be free from obvious defects. Trim pieces should be securely affixed and aligned, and in new condition. If equipped, verify the cab extenders and chassis skirts are properly aligned and securely mounted. Chrome surfaces should be free from obvious defects. The mirrors and grill should be securely mounted and in new condition. The windshield and other glass should be free from cracks, chips or other obvious defects.

## ***Fifth Wheel***

Lubricate the fifth wheel top plate, locking jaw, pivot pins and slider mechanism. On Fontaine fifth wheels, close the jaw by pushing the lower section of the jaw forward with a long shaft. Separate the locking jaw from the wedge with a screwdriver and inject grease into the gap. Make sure the surfaces between the two parts are well lubricated. This will keep the parts from sticking together. The fifth wheel should lock and unlock smoothly and fully. It should also be secure and tight when locked.

### **NOTE**

**Labor and cost of chassis lubricants and fifth wheel are included in the PDI. Do not include them as part of the PTD Warranty.**

### **NOTE**

**Activate the hand-operated 5th wheel jaw release (and the in-cab jaw release feature, if so equipped).**

## **Under the Vehicle**

### ***Under-Vehicle Routing***

Verify all cables, hoses, and wires are properly supported, free from tension, routed away from heat sources unless shielded, clear from any rub or pinch point and free from crimping. Also, they should not block access to any fluid fill point, inspection point or regular maintenance item. The compressor discharge line should be free from any low points, or “traps.”

Check all electrical wiring harnesses, air hoses, coolant hoses, power steering hoses, fuel lines, transmission cooler and transmission retarder lines,

any hydraulic brake hoses and any add-on hydraulic lines. There should be no audible air leaks or visible fluid leaks on any hoses or lines. Verify all electrical connections are securely latched. Make sure hose and line routing clamps are positioned to allow access to the clamp adjustment and other nearby components. Re-tighten to the proper specification.



## CAUTION

**Only use a hand-operated grease gun on steering gear dust seal zerk. A power grease gun can damage the seal.**



## CAUTION

**Only lubricate 10-Series driveshafts. Do NOT add grease to SPL XL driveshafts; they contain synthetic lubricant and are covered with plastic caps that should be left in place.**

### *Lubrication*

Lubricate all grease zerks including kingpins and kingpin thrust bearings with the vehicle weight resting normally on the tires. Also, lube the tie rod ends, drag link ends, steering intermediate shaft U-joints, and slip joint. Lubricate the steering gear dust seal, brake camshafts and brake slack adjusters. Also, lubricate the driveshaft U-joints, driveshaft slip joints, transmission clutch cross-shaft bushings and transmission clutch throw-out bearing. Spray the door hinges, door check-links and bumper hinges with white lithium grease.

### *Exhaust*

The exhaust system should be securely mounted to the frame or body. All exhaust system joints should be tight and free from any leaks. Look for evidence of leakage, such as soot

around the joints. Exhaust system sensors, cables, tubes, and hoses should be free from tension and should not rub any object. The tailpipe must extend beyond any coachwork or fuel fill point and must not contact any part of the vehicle.

### ***U-Joint Phasing***

Verify the proper phasing of the front and rear U-joints on the rearmost shaft. Regardless whether U-joint phasing is corrected, re-torque all U-joints.

### ***Manual Transmission***

Verify the fluid levels in the drive axle and manual transmission are filled to the proper specifications. Make sure the drain plugs on all components are dry and do not leak. Tighten all fill and drain plugs to the specifications found in the Master Instruction Manual or on ISIS®. When inspecting the transmission oil cooler hoses, if the gauge clips are securely fastened, no further inspection is necessary. If no gauge clips are present, install gauge clips on all ends of the transmission oil cooler hoses. If gauge clips are not available, verify the cooler hoses are fully latched by pulling on each side of the connection to ensure they are secure. Without the gauge clips there should be some free play to prove the



#### **CAUTION**

**Failure to fully latch the snap-to-connect fittings can result in oil loss and transmission failure.**

#### **NOTE**

**Labor is covered within PDI. Any fluid added is covered under PTD Warranty.**

#### **NOTE**

**If the gauge clips are missing, check the PDI Master Instruction Manual to see if gauge clips must be installed.**

connection is securely latched. If there is tension on the connection, adjust the routing and clipping to remove the tension.

### ***Transfer Case***

Verify the transfer case oil is filled to the fill port opening and the drain plug is snug and leak-free.

### ***Cotter Keys and Lock Tabs***

Verify all cotter keys and lock tabs are in place and properly spread. Replace any missing cotter keys or lock tabs.

### ***Axle Spring U-bolts***

Re-torque the axle spring U-bolts to the proper specification.

### ***Starter***

Inspect the starter ground connections to verify they are tightened properly and coated with dielectric grease. Make sure the cable ends do not contact any other hardware.

## **Engine Compartment**

### ***Power Steering***

Verify the power steering fluid level is in the upper half of the cold range. On the steering intermediate shaft, make sure



the pinch bolts are twisted off on both ends.

### ***Under-hood Connections***

Check the torque on all adjustable hose clamps. Pay close attention to the clamps on the clean side of the air intake system. Air filter elements must also be securely installed. The snorkel connection should fit as designed to prevent dust and water from entering at the joint.

### ***Turbo Down Pipe***

Verify the turbo down pipe is secure and does not contact any other vehicle hardware.

### ***Cables, Hoses, Lines, and Wires***

Verify all cables, hoses, and wires are well supported, free from tension, routed away from heat sources unless shielded, clear from any rub or pinch point and not crimped. Also, they should not block access to any fluid fill point, inspection point or regular maintenance item. The compressor discharge line should be free from any low points, or “traps.”

***“The compressor discharge line should be free from any low points, or ‘traps.’”***

Check all electrical wiring harnesses air hoses, coolant hoses, power steering hoses, fuel lines, transmission cooler and retarder lines, any hydraulic brake

hoses and any add-on hydraulic lines. There should be no audible air leaks or visible fluid leaks on any hoses or lines. Verify all wire harness electrical connections are securely latched. Make sure all clamps are positioned to allow access to the clamp adjustment and other items in the vicinity. Retighten to the proper specifications.

### ***Fluid Levels***

#### **NOTE**

**Hybrid vehicles require a separate coolant level check.**

Engine oil should register between the midpoint of the add/full range and the full point on the dipstick. The washer fluid reservoir should be at least half full. Verify the engine coolant level is between the MIN and MAX indicators on the surge tank. Refer to ISIS® for proper coolant freeze protection level. Note the current level, as you will check it again after the Road Test. Open all coolant shut-off valves before the road test so coolant flows throughout the system.

#### **NOTE**

**If the fluid level is in an acceptable operating range, further fluid additions are not covered by PTD Warranty. Only fluid added to reach an acceptable operating level is covered by PTD Warranty—not the labor to add the fluid.**

### ***Automatic Transmission***

With automatic transmissions, verify the transmission fluid is at the proper level. The vehicle needs to be running and in NEUTRAL or PARK. The fluid should measure between the midpoint of the add/full range and the full point on the dipstick. Note the current level, as you will check it again after the Road

Test to confirm the fluid is at the proper level.

## ***Brake System***

Depending on the brake system, additional procedures may be required. Refer to the Pre-Delivery Inspection Master Instruction Manual. Verify the brake fluid level meets the proper specification. Check the level both before and after the road test. Do NOT overfill the reservoirs.

### ***Preview: After-Road Test Engine Compartment Inspection***

After the Road Test, you will complete another inspection of the engine compartment. You will verify the coolant level is between the MIN and MAX indicators on the surge tank. On components that contain fluid, check for leaks at the gaskets, seals, hoses, connections, and low points on housings. These components include the engine, the transmission, the radiator, the transmission cooler, the transmission retarder, the drive axle, the fuel tank and fuel delivery system, the chassis power steering lines, any hydraulic brake tubing, any add-on hydraulic equipment and all exhaust connections. If the vehicle is equipped with air tanks, verify manual operation



## **CAUTION**

**Brake fluid is harmful to painted and plastic surfaces. If brake fluid is spilled onto a painted or plastic surface, rinse it immediately with water.**

of the drain valves. There can be no air leaks on any components or air lines.

## Inside the Vehicle

### *Keys, Doors, and Windows*

#### **NOTE**

**If RKE fobs are not functional initially, refer to TSI 07-08-03 for programming instructions.**

Check the operation of the door locks. Make sure the locks and the supplied keys are all operational. Also verify the fuel cap keys and Remote Keyless Entry operate correctly. Additional programming of the Remote Keyless Entry may be required as part of the PDI. Make sure the latches and hinges work properly and that the door fit is acceptable. Cycle all window and vent handles. They should open easily and close tightly.

### *Lights and Wipers*

Check the interior and exterior lights for proper function. Verify the wipers work in all settings. The wipers should not contact each other or the window frames. Make sure the washer nozzles spray correctly.

### *Steering Wheel and Mirrors*

Verify the proper function of the steering wheel. Differential locks and the power divider should lock and release audibly. Make sure the rear air suspension dump lowers and raises the

#### **NOTE**

**Optional equipment may not function unless the vehicle has 120 psi of air pressure.**

frame. Verify all manual and motorized mirrors operate properly.

### ***Sleeper and Seats***

The interior panels, compartments, trim, molding and floor coverings should be square, clean and well secured. If the vehicle is equipped with a sleeper, verify the sleeper controls and accessories are clean, secure and functional. Later, during the road test, with the engine running, verify all sleeper control panel functions operate properly.

Check the proper installation, condition, and operation of driver and passenger areas. Move both seats through all positions, making sure each locks securely in the various positions. Inspect the seatbelts for proper installation. Verify each buckle and clasp connects and disconnects easily and securely.

### ***Clutch Pedal***

Depress the clutch pedal and measure the distance traveled until resistance is felt. Measure at the midpoint of the side of the pedal pad. Correct the pedal travel as needed by performing an internal clutch adjustment. If internal clutch adjustment does not provide

***“Depress the clutch pedal and measure the distance traveled until resistance is felt.”***

**NOTE**

**Air pressure gauges on 5000i and 9000i series vehicles are not multiplexed and therefore may not recalibrate automatically. This is normal.**

**NOTE**

**Some automated manual transmissions may appear to start with Reverse or Drive selected but in actuality, the system automatically switches to Neutral with the start attempt as a self protection.**

proper free play, the clutch linkage needs to be adjusted.

***Gauges***

With the engine off, turn the key to the RUN position and verify the warning lights illuminate and the gauges self-test. Document and clear any inactive fault codes using an Electronic Service Tool.

***Starting the Vehicle***

On a vehicle with an automatic transmission, select each gear range and turn the key to START. The starter must NOT turn over except in NEUTRAL or PARK. With a manual transmission, the starter must NOT turn over unless the clutch is depressed. Start the vehicle.

***Parking Brake Test***

With the park brake set, the park brake indicator must be lit. Attempt to move the vehicle with the parking brake applied. The vehicle must not move. Verify the park brake indicator turns off when the park brake is released.

***Warnings and Controls***

Make sure the brake and air system warning lights and buzzers, function properly. Verify the operation of all

horns and steering wheel switches. These may include cruise control, radio or CD player controls. Shift through each gear selection and verify every gear is indicated. Later, during the road test, verify each gear is properly engaged as selected. If so equipped, make sure the auxiliary gear selector functions properly. Also check that the body switches operate accessories as labeled.

### ***Driver's Controls***

Once the vehicle reaches operating temperature, verify all interior and exterior controls and accessories function properly. Some of these may include: climate controls, radio or CD player and the Vehicle Information Display.

### ***Compass Calibration***

If the vehicle is equipped with a compass, you need to program it during your pre-delivery inspection. To save time, you may want to include this process in the road test portion of your inspection since this process requires that the vehicle be driven. Refer to the operator manual or ISIS<sup>®</sup> for the proper steps to complete this process.

***“If the vehicle is equipped with a compass, you need to program it...”***

## Road Test

### *Road Test Set-Up*

***“The road test ... should include reverse operation, full-lock turns in both directions and include speeds of 55 mph or more.”***

The road test course should be set up to the proper specification. It should include reverse operation, full-lock turns in both directions and include speeds of 55 mph or more. The radio should be off for the test.

While driving the vehicle, verify the speedometer and tachometer function properly and the readings are within acceptable ranges. Also, check the following gauges: oil pressure, water temperature, voltmeter, air pressure and fuel. Check the operation of all warning lamps. None of the warning lamps should be illuminated. Wind noise should not be excessive.

### *Vehicle Performance Test*

Idle should be smooth and acceleration should be even and powerful. Verify that shifts are crisp, but not harsh. Noise and vibration while driving should be minimal. Braking should be smooth and responsive. Steering should be tight and straight, with no pull or vibration. While driving, verify the steering wheel rim centerline is off-center by less than the specification in the PDI Master Instruction Manual.



## ***Post Road Test***

After the road test, retrieve, document and correct concerns identified by fault codes in the system. Wash the vehicle thoroughly. Inspect the interior for any leaks.

## **Completing the PDI**

### ***Decals and Documents***

Make sure the operator's manual and other required documents are in the vehicle. If the Vehicle Operator's Manual has an instruction sticker page in front, apply it to the vehicle. Apply all other stickers required for the vehicle, including the vehicle certification label, vehicle identification label, and the pre-delivery service identity label. Be sure to apply them to the proper location. Add the PDI location code and date of inspection to the vehicle identification label. The completed vehicle identification label attached to the left door pillar provides a permanent record of preparation, delivery date, and inspection location. This label should be filled out using only a ballpoint pen, electric pen, or stylus.

***“The completed vehicle identification label attached to the left door pillar provides a permanent record of preparation, delivery date, and inspection location.”***

### ***Final Inspection***

When repairs are complete, review the paperwork and perform a final

inspection before signing the Pre-Delivery Inspection Report Form. Since this is the last step in the process with the vehicle, finish the PDI by removing any interior protective coverings, tags, or tape.

### ***Inspection Report Form Completion***

***“A service lead person must review and sign the completed form upon completion of the inspection.”***

If required rework is completed by a technician other than the person inspecting the vehicle, that technician is required to sign the form in the appropriate section after completing the repair. The person inspecting the vehicle must verify the repairs are complete and satisfactory and mark the Accepted as Delivered column before signing the form. Now that your inspection is complete, make sure any items marked in the Rework Required column are properly explained in the comments section and the Accept as Delivered column has been marked. A service lead person must review and sign the completed form upon completion of the inspection.

## NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## NOTES

[illegible]

# Vehicle Specific PDI Tasks

## Module 3

### Overview

This module is designed to show you some of the vehicle specific tasks that you must complete. Remember, these tasks are not in any particular order. Follow the vehicle specific PDI report for the proper inspection order

### Bus

#### *Auxiliary Heater, Engine Cover and Body Switches*

Make sure the auxiliary heater functions properly and is securely mounted. The engine cover of the FE300 should fit well and not move when tugged or rocked. Verify the body switches operate accessories as labeled.

***“The engine cover of the FE300 should fit well and not move when tugged or rocked.”***

### CITYSTAR™

#### *Cab Tilt*

During your inspection of a CITYSTAR™, verify the cab tilts smoothly, easily and quietly. Make sure the latches and cab lockout operate properly.

#### *Center Bearing Isolator*

Verify the center bearing isolator is not out of carrier alignment. Also make sure

**NOTE**

**Labor and materials to replace gaskets and for the reinstallation of backed-out hub studs is included in the PDI. Do NOT apply this to PTD Warranty.**

**NOTE**

**If there is no indication the axle shafts were removed and there is no leakage, do NOT replace the axle shaft gaskets.**

the mounting bolts are tightened to the proper specification.

**ProSTAR™*****Rear Axle Gaskets***

When inspecting a ProSTAR™, replace the two rear axle gaskets, if the shafts were removed by the vehicle delivery company.

**Hybrid*****Disable System***

Disable the Hybrid System by placing the PEC or service disconnect switch in the off position and lock it into place for each pack.

***Enable System***

Start the vehicle with the hybrid motor and verify proper operation. To start a vehicle with the hybrid system you need to have the system fully charged. If the system has been disabled you will need to wait two minutes after enabling the hybrid system via the PEC switch or the service disconnect switch.

***Charge Batteries***

During road testing, be sure to engage regenerative braking to charge the

hybrid batteries for at least 10 seconds, verifying that this function is operational.

### ***Warning and Fault Lights***

The Hybrid fault light should not illuminate during normal operation. Make sure the hybrid warning and fault lights function properly.

### ***Decals***

Make sure the hybrid decals are applied and the hybrid power supply cord is with the vehicle.

## **3200**

### ***Mudflaps, Fenders and Tow Hooks***

While inspecting a 3200 series vehicle, make sure the mudflaps are securely mounted and do not contact any part of the exhaust system. The fenders should be properly aligned with the vehicle body. Make sure the tow hooks are mounted securely to the frame. If the tow hooks are removable, the tow hook frame mount must also be mounted securely to the frame.

### **NOTE**

**Labor for the installation of mudflaps is not covered under PDI. Costs are to be included in the purchase price of the vehicle.**

### ***Shocks, and Brake Stroke***

Make sure the shock absorbers and bump stops are securely installed. Verify brake stroke is within the proper

specification. The over-stroke indicator should not be visible.

### ***Alternator***

Inspect the alternator connections to verify they are tightened properly and coated with dielectric grease. The cable ends should not contact any other hardware.

### ***Auxiliary Heater and Body Switches***

Make sure the auxiliary heater functions properly and is securely mounted. Also, check that the body switches operate accessories as labeled.

## **Conclusion**

***“By following these important techniques, you assure that each new vehicle meets or exceeds the customer’s quality expectations.”***

This concludes Navistar’s Introduction to Pre-Delivery Inspection, including all documentation requirements and all new vehicle processing procedures. As we have discussed in this program, effective PDI is a key part of customer service. By following these important techniques, you assure that each new vehicle meets or exceeds the customer’s quality expectations. To complete this education process, take the corresponding post-test. Go to ISIS®/Education/Service/Online Testing for this Intro to Pre-Delivery Inspection Training program. Thanks for your participation.



## NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## NOTES

This image shows a full page of blank handwriting practice paper. It features approximately 30 evenly spaced horizontal blue lines across the entire page, providing a guide for letter height and placement. The lines are uniform in color and thickness, set against a plain white background. There are no margins, text, or other markings present.

## NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.