Pre-Trip Inspection

Class A & D

The daily inspection test is divided into the following sections and will be performed in the following order:

- Exterior inspection
- In-cab check
- Interior inspection

The exterior and interior portions of the daily inspection test will be administered using a random selection of testing items from schedule 1 in HTA Regulation 199/07. Drivers must use Schedule 1 as a reference during the daily inspection test.

1. Exterior Inspection

The first part of the daily inspection test is mainly items on the exterior of the vehicle, although some are interior items. The first part must be performed with the wheels chocked and the parking brake applied, for all Class A vehicles and other vehicles equipped with air brakes. Parking brakes may need to be released during the inspection.

Drivers must inspect **four** items, selected by the examiner at random, from the list below, and for each item, the driver must:

- Demonstrate and describe, or describe only, how to inspect the item.
- Explain what defect(s) drivers must look for while inspecting each item.
- Describe what action the driver must take upon identifying a minor and/or major defect.

In case of **Minor** defects, after the demonstration the driver must tell the examiner:

- This is a Minor defect
- If we have a minor defect, we should
 - Report to the operator
 - Write in inspection book
 - We are allowed to drive

In case of Major defects, after the demonstration the driver must tell the examiner:

- This is a Major defect
- If we have a major defect, we should
 - Report to the operator
 - Write in inspection book
 - We are NOT Allowed to drive

MINOR: slow air pressure build-up rate

Inspection procedure:

Tell Examiner:

- Wheel is chocked
- Vehicle is secure

Demonstrate:

- Start the engine
- Release only tractor parking brake

Tell examiner:

- The air pressure is <u>and in normal operating range</u>
- I am going to reduce air pressure below 80 psi
- Keep rpm between 600 to 900
- Measure the time. From 85 to 100 psi should not take more than 2 minutes

Demonstrate:

- Pump the brakes until you reach below 80 psi
- Bring the rpm between 600 to 900
- Start timing when the pressure reaches 85 psi
- Once reached 100 stop timing
- Apply tractor parking brake

Tell examiner:

- From 85 to 100 it took _____ seconds
- It is less than 2 minutes

MINOR: audible air leak MAJOR: air loss rate exceeds prescribed limit

Inspection procedure:

Tell Examiner:

- Wheel is chocked
- Vehicle is secure

Demonstrate:

- Turn ignition ON
- Release **both** tractor and trailer parking brakes
- Ensure the air pressure is above 100 (if not, turn engine on and raise pressure and turn engine off)

Tell examiner:

- Mention the pressure to the examiner
- I am going to apply service brake
- Listen for any air leak

Demonstrate:

- Press service brake,
- Listen for any air leaks

Tell examiner:

- There is no leak
- If there is any leak, we perform the air loss rate test
- I am going to apply the service brake
- Look at the gauges
- It should not lose more than 4 psi (3psi for 1 unit) in one minute

Demonstrate:

- Press the service brake
- Watch the gauges, continue for one minute.
- After one minute apply parking/emergency brakes.

Tell examiner:

Airbrake system leaks (2)

- There was no pressure loss
- Safe and secure



Brake pushrod stroke(3)

MAJOR: pushrod stroke of any brake exceeds the adjustment limit

Inspection procedure:

Tell Examiner:

- Wheel is chocked
- Vehicle is secure

Demonstrate:

- Start the engine
- Turn the wheel to the left/right to obtain access to brake chamber
- Make sure to release the steering wheel for your safety
- Release **both** the tractor and trailer parking brakes.
- Ensure the air pressure is between 90-100 psi
- Turn the engine off
- Turn the ignition ON
- If the hood is closed, open the hood
- Go to the chamber of your choice
- Measure and notify the examiner of the size of brake chamber
- Check the type of the chamber (square, long stroke or regular)
- Read the adjustment limit from the chart and notify the examiner
- Mark the location of the pushrod
- Get back in cab
- Using the provided tool, press down on the service brake
- Check the pressure. Make sure it is still between 90-100
- Measure the displacement of the stroke and inform the examiner

Tell examiner:

• The distance is less than the adjustment limit

Demonstrate:

• Remove the tool from the pedal, apply tractor parking brake

Tractor protection system (4)

MAJOR: Inoperative towing vehicle (tractor) protection system

Inspection procedure:

Tell Examiner:

- Wheel is chocked
- Vehicle is secure

Demonstrate:

• Start the engine if the air pressure is less than 80 psi, turn off the engine and switch ignition key on

Tell examiner:

• The air pressure is in operating range

Demonstrate:

- Disconnect the blue line
- Release the tractor parking brake
- Check the pressure
- Apply service brake, observe the glad-hand and listen for any air leak

Tell examiner:

• There is no air leak so protection valve is working properly

Demonstrate:

- Apply tractor parking brake
- Re-connect the glad-hand
- Return to the cab

Low-air warning system (5)

MAJOR: Low air warning system fails or system is activated

Inspection procedure:

Tell Examiner:

- Parking brakes are applied
- Wheel is chocked
- Vehicle is secure

Demonstrate:

• Make sure the pressure is above 100 psi (Engine may be running or shut off)

Tell examiner:

- Air pressure is in operating range and low air warning system is **not activated**
- I am going to reduce the air pressure, low air warning system must activate above 55 Psi
- Below 55 psi is major defect

Demonstrate:

• Press and release the brake pedal several times until low air warning system activates

Tell examiner:

• Low air warning system activated on ____ psi which is above 55.

Occupant door (6)

MINOR: Occupant compartment **door** fails to open

 MAJOR : Any cab or sleeper door fails to close securely

Inspection procedure:

Demonstrate:

- Check that the door opens from outside and pull to ensure stays locked
- Check that the door opens and from inside and push to ensure stays locked
- Check that there is no damage around the door
- Check that there is no damage on lock and latch

Tell examiner:

- The door opens and closes properly, safe and secure
- Now I will check all doors



Coupler fasteners(7)

MINOR: Coupler or mounting has loose or missing fastener

Inspection procedure:

Demonstrate: Inspect inside the fifth wheel for loose or missing lock mechanism fasteners Tell examiner: As far as I can see, there are no loose or missing lock mechanism fasteners. Demonstrate:

- Visually (Or physically when possible) inspect around the fifth wheel for loose or missing fasteners
- Inspect both sides

Tell examiner:

• Fasteners around the coupler are not loose, or missing, coupler secure.

Coupler security and movement (8)

MAJOR: **Coupler (for movement)** is insecure or movement exceeds prescribed limit **Inspection procedure:**

Demonstrate:

- Check around the fifth wheel for any cracks, damages or loose and missing parts.
- Ensure the handle is in locked position
- Ensure there is no gap between fifth wheel and trailer
- Ensure the jaw is closed

Tell examiner:

- Around the coupler, there are no cracks, no damaged, no missing parts, safe and secure
- Handle is in locked position
- There is no gap between fifth wheel and trailer
- Jaw is closed around the kingpin

Tell examiner: (Explain how to check for movement limit)

- Get inside cab and start the engine
- Release the tractor brakes only
- Gently pull the tractor as far forward as possible, pull tractor brake, and put gear on neutral
- Mark the centre of 5th wheel on trailer plate.
- Get inside cab
- Release the tractor brakes only
- Gently reverse the tractor as far back as possible, and pull tractor brake, and put gear on neutral.
- Mark the centre of 5th wheel on trailer plate.
- Check the distance between two marks.
- When movement is more than 13 mm ($\frac{1}{2}$ inch), the vehicle has major defect.

Tell examiner:

• "I am now going to demonstrate"

Demonstrate:

• If examiner does not stop you, demonstrate the above procedure

Coupler lock (9)

MAJOR: Coupling or locking mechanism is damaged or fails to lock

Inspection procedure for 5th wheel coupler:

Demonstrate:Check the 5th wheel for any cracks, damages, missin	g fasteners
Tell examiner:around the coupler, there are no cracks, damages, m	issing parts, safe and secure
 Demonstrate: Ensure the handle is in locked position Ensure there is no gap between fifth wheel and traile 	er
 Tell examiner: The handle is in lock position There is no gap between fifth wheel and trailer Demonstrate: Go under the trailer and confirm the jaw is closed 	
Tell examiner: • The jaw is closed around the pin Read from schedule 1	

Exhaust System (11)

MINOR: Exhaust leak

MAJOR: Leak that causes exhaust gas to enter the occupant compartment

Inspection procedure:

Demonstrate:

- Make sure hood is open, engine is running, and windows are closed,
- Follow along exhaust system from engine to the end of the exhaust pipe, and inspect for any damages or leaks and point to the pipe along the way

Tell examiner:

• No damages, No exhaust leak around the exhaust system safe and secure

Demonstrate:

• Get inside cabin and smell for any gas leak

Tell examiner:

• There is no exhaust gas in the cabin, safe and secure

MINOR: Frame or cargo body

MAJOR: Visibly shifted, cracked, collapsing or sagging frame member(s)

Inspection procedure:

Demonstrate: Make sure hood is open • Start from the front of the vehicle and inspect the following items for any cracks, damages, sagging, collapsing part: • Truck frame • Frame members • Trailer frame • Landing gear frame Trailer frame members 0 Trailer body 0 • Bogie frame Trailer door • Rear Bumper Tell examiner: No cracks, no damages, no shifting or sagging parts (as you go along the frame) • Read from schedule 1

Fuel System(13)

MINOR: Missing fuel tank cap

MAJOR: Insecure fuel tank and 12.3M dripping fuel leak

Inspection procedure:

Demonstrate:

• Ensure the fuel tank cap is present and tight

Tell examiner:

• The cap is present, tight, and secure

Demonstrate:

Check that the straps and tank are secure

Tell examiner:

• The fuel tank is secure

Demonstrate:

• Inspect under the tanks, along the fuel line and under the engine for any dripping fuel leak on the ground

Tell examiner:

- No dripping leak along the fuel system
- Safe and secure

Glass and Mirrors (14)

MINOR: Required mirror or window glass fails to provide the required view to the driver as a result of being cracked, broken, damaged, missing or maladjusted

- Required mirror or glass has broken or damaged attachment onto vehicle body

Inspection procedure:

Demonstrate:

- Ensure Hood is closed
- Start from the driver door window and visually inspect for cracks or damages

Tell examiner:

Driver window has no cracks no damages

Demonstrate:

- Visually inspect the driver side mirror for any cracks or damages
- Physically hold and shake the mirror frame to ensure it is attached properly

Tell examiner:

- The mirror has no cracks or damages
- It is mounted securely

Demonstrate:

- Visually inspect the driver side hood mirror for any cracks or damages
- Physically hold and shake the mirror frame to ensure it is attached properly

Tell examiner:

- The hood mirror has no cracks or damages
- It is mounted securely

Demonstrate:

• Visually inspect the windshield for any cracks or damages

Tell examiner:

- Windshield has no cracks no damages
- It provides required view to driver

Glass and Mirrors (14)

Demonstrate:

• Continue the same procedure for passenger side



Hydraulic Brakes (15)

FOR CLASS D

MINOR: Brake fluid level is below indicated minimum level

MAJOR: Parking brake is inoperative

- -Brake boost or power assist is not operative
- -Brake fluid leak
- Brake pedal fade or insufficient pedal reserve
- Activated (other than ABS) warning device
- Brake fluid reservoir is less than 1/4 full

Inspection procedure:

Demonstrate:

- Open the hood.
- Check the brake fluid level (remove the filler cap when brake fluid level is not visible any other way).
- Visually check booster is secure and no damage or leaks
- Check Brake fluid hoses and caliper for any leak
- Get inside the cab, turn engine on and ensure the brake pedal is not fade
- Ensure the ABS light turns on and off upon turning the ignition ON
- Ensure parking brake is working

Air Suspension (16)

MINOR: air leak in air suspension system

MAJOR: damaged* or deflated **air bag** [*patched, cut, bruised, cracked to braid, mounted insecurely]

Inspection procedure - when vehicle has an accessible air bag:

 Demonstrate: Choose an airbag behind the tractor to inspect Run your hand around the air bag to check for damaged 	jes
Tell examiner:No patches, cuts, bruises, cracks, or braids	
 Demonstrate: Hit the air bag to make sure it is full of air Listen for any leaks around the airbag and air lines 	
Tell examiner:• Airbag not deflated• There is no air leak	
Demonstrate: • Shake the airbag to ensure it is secure and in place	
Tell examiner: • Airbag Secure	
Read from schedule 1	

MINOR: Broken spring leaf

MAJOR: Cracked or broken main spring leaf or more than one broken spring leaf

-Part of spring leaf or suspension is missing, shifted out of place or in contact with another vehicle component

Inspection procedure:

Demonstrate:

- Identify the main spring leaf (The spring leaf directly attached to the frame)
- Inspect the spring leaves for any cracks, damages or missing part
- Ensure that the spring leaf is not shifted out of place or in contact with another vehicle component

Tell examiner:

- The main and other spring leaves have no cracks, no damages, and are not shifted out of place
- They are not in contact with another vehicle component

Suspension fasteners (18)

MINOR: Suspension fasteners are loose, missing or broken components MAJOR: Loose U-bolts

Inspection procedure:

Demonstrate:

- Inspect the following fasteners and confirm with examiner all are tight and not missing
 - Shoulder(Bracket)
 - Main spring leaf
 - $\circ \quad \text{U-bolts}$
 - Shock absorber

Tell examiner:

- All Fasteners are tight not missing
- Safe and secure

Tire inflation (19)

MINOR: Tire leaking if leak cannot be heard

MAJOR: Flat tire

-Tire leaking if leak can be felt or heard

Inspection procedure:

Demonstrate:

• With your hand, without gloves, check for any leaks outside the tire, inside the tire, over treads and around the rim

Tell examiner:

• No leaks around the tire

Demonstrate:

• Check the valve, listen and physically check for any air leak

Tell examiner:

The valve has no leak

Demonstrate:

• Hit the tire with the hammer to ensure it is full of air

Tell examiner:

• The tire is not flat

Tire tread and sidewall (20)

MINOR: Damaged tread or sidewall of tire (for damage)

MAJOR: Tire tread depth is less than wear limit

-Tire is in contact with another tire or any vehicle component other than mud-flap

-Tire has exposed cords in the tread or outer side wall area

Inspection procedure:

Demonstrate:

• Run your hand along the sidewall of tire (inside and outside) and tread surface, and check for **damages** and **exposed cords**

Tell examiner:

- No cracks, no damages, no cuts
- No exposed cords

Demonstrate:

• Check the tire tread depth (front minimum 3mm and back 1.5mm)

Tell examiner:

• Tire tread depth is _____ and it should be more than 3mm for front or 1.5 for rear tires

Demonstrate:

- Check that tire is not in contact with another tire or component except the mud flap
- Check if the tire is not marked "Not for highway use"

Tell examiner:

- Tire is not in contact with another component
- tire is not marked "Not for highway use"

Wheelhubs(21)

MINOR: Hub oil below minimum level (When fitted with sight glass)

-Leaking wheel seal

MAJOR: Evidence of imminent wheel, hub or bearing failure

Inspection procedure:

Demonstrate:

- Check the hub oil level (or describe how to check)
 - If fitted with sight glass: check if glass is not damaged and oil level is above the minimum level
 - If there is no sight glass: Only Describe how to check

Tell examiner:

- If fitted with sight glass:
 - The glass has no cracks or damages
 - Hub oil is above minimum level

Demonstrate:

- Check the wheel seal for any leak
- Shake the wheel to check for bearing failure
- Ensure the hub is secure and cool

Tell examiner:

- No evidence of wheel seal leak
- Hub is secure and cool
- No evidence of hub and bearing failure
- Safe and secure

Wheel fasteners (22)

MAJOR: Wheel has loose, missing or ineffective fastener

-Evidence of imminent wheel, hub or bearing failure

Inspection procedure:

Demonstrate:

• Check all **wheel** and **hub** fasteners by hand to ensure they are not missing and are tight

Tell examiner:

- All fasteners are tight and not missing
- Safe and secure

Demonstrate:

- Ensure the hub is secure and cool
- Shake the wheel to check for bearing failure

Tell examiner:

- Hub is cool
- No evidence of hub and bearing failure
- Safe and secure

Wheels and rims (23)

MAJOR: **Damaged**, cracked or broken **wheel**, **rim or attaching part** -evidence of imminent wheel, hub or bearing failure

Inspection procedure:

Demonstrate:

- Inspect the rim for any cracks or damages
- Inspect between the fasteners for any cracks
- Inspect the hub for any damages
- Inspect inside the wheel for any cracks or damages
- Inspect the wheel fasteners for damages (as attaching parts)

Tell examiner:

- On the wheel there are no cracks or damages
- No cracks between the fasteners
- No cracks or damages around the hub
- There is no visible damages inside the rim
- No damaged or missing fasteners

Demonstrate:

- Ensure the hub is secure and cool
- Shake the wheel to check for bearing failure

Tell examiner:

- Hub is secure and cool
- No evidence of hub and bearing failure
- Safe and secure

2. In-cab Check

Once Part A of inspection is complete, you will enter the vehicle and begin the in-cab check portion of the test. You are not required to identify minor or major defects during the in-cab check.

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Gauges and indicators

Procedure:

Demonstrate:
 Ensure the gear is in neutral and parking brakes applied, vehicle is secure
Turn ignition on
 Check if all indicator and warning lights turn on and off and work properly
Tell examiner:
All indicator and warning light working
Demonstrate:
Start the engine
Check if any warning lights are present and mention them to the examiner
Tell examiner:
No warning lights are on except for
Demonstrate:
 Check Air gauges one by one and ensure they are in operative range (80-145)
Tell examiner:
 Primary and secondary air pressure gauges are working properly and are in operative range
Demonstrate:
Check all gauges and ensure they work properly and are within normal range
Tell examiner:
• gauge working properly and within normal range (repeat for all gauges)

Steering wheel

Procedure:

Demonstrate:Shake the steering wheel to make sure it is secure
Tell examiner: • The steering wheel is secure
Demonstrate: • Turn all the way right
Tell examiner: • Steering wheel turning right, responds normally
Demonstrate: • Turn all the way left
Tell examiner:Steering wheel turning left, responds normally
Demonstrate:Check free-play of the steering wheel. It should not be more than 2 inches
Tell examiner: • Steering wheel free-play is less than limit • Safe and secure
• Sale and secure

Wipers and washers

Procedure:

Demonstrate:

• Check BOTH wiper arms and rubber blades for any damages

Tell examiner:

- Driver side wiper has no damages
- Rubber blade has no damage
- Passenger side wiper has no damages
- Rubber blade has no damages

Demonstrate:

Check windshield washer

Tell examiner:

• Washer working properly and provides clear view on both sides

Demonstrate:

- Check all speeds of wiper one by one
- Look at both wipers after changing speed each time

Tell examiner:

- Speed 1 working properly
- Speed 2 working properly
- Speed 3 working properly
- The wipers provide adequate clear view

Heater/ Defroster controls

Procedure:

Demonstrate:

• Ensure there is no object between windshield and dash

Tell examiner:

• There is no object between windshield and dash

Demonstrate:

- Turn the knobs on heat and defroster mode
- Check all speeds on this mode one by one

Tell examiner:

- The knobs are on defroster and heat
- Speed 1 working properly (repeat for all speeds)
- Defroster working properly and provides adequate clear view

Demonstrate:

Change the knob to check the face mode and floor mode

Tell examiner:

Face/Floor modes working properly

Driver's seat and seat belt

Procedure: **Demonstrate:** • Shake the back rest and bottom of the seat to ensure it is secure Tell examiner: • The seat and back rest are secure and remain in set position **Demonstrate:** Check the seat belt for any damages Ensure the seat belt hook is secure Check if seat belt locks securely Tell examiner: • Seat belt has no cuts or damages • Hook is secure • Seat belt locks properly **Demonstrate:** • Check the tether belt to the right and left Tell examiner: Tether belt on both sides are secure

Mirror and windshield

Procedure:

Demonstrate:

- Check windshield for any cracks or damages
- Check driver and passenger side glasses

Tell examiner:

- Windshield has no damages and provides clear view
- Driver/passenger glass has no damages and provides clear view

Demonstrate:

- Check the driver door mirrors for cracks and damages
- Check if it is adjusted properly for driving
- Repeat for:
 - $\circ \quad \text{Hood mirrors}$
 - Passenger side mirrors
 - Door mirror

Tell examiner:

- The mirror has no cracks no damages
- Adjusted properly for driving
- Repeat for all

3. Interior Inspection

Once the In-cab check is complete, you will inspect two randomly generated items from Schedule 1 and you must:

- Demonstrate and describe how you would inspect the item.
- Explain what the defect(s) would be for the item.
- Describe what action you would take upon identifying a minor and/or major defect.

Driver Seat (1)

Procedure:

 Demonstrate: Shake the back rest and bottom of the seat to ensure it is secure
Tell examiner: • The seat and back rest are secure and remain in set position
 Demonstrate: Check the seat belt for any damages Ensure the seat belt hook is secure Check if seat belt locks properly Tell examiner: Seat belt has no cut or damage Hook is secure Seat belt locks properly
Demonstrate:Check the tether belt to the right and left
Tell examiner: • Tether belts are secure
Read from Schedule 1

Emergency equipment (2)

MINOR: emergency equipment is missing, damaged or defective

Inspection procedure:

Tell examiner:

- Fire extinguisher is mounted properly
- The arrow is on green
- Pin is in
- 3 **Reflectors** are present in the box
- First aid kit is present



Heater / Defroster(3)

MINOR: Control or system failure

Procedure:

Demonstrate:Ensure there is no object between windshield and dash
Tell examiner:
There is no object between windshield and dash
 Demonstrate: Turn the knobs on heat and defroster mode Check all speeds on this mode one by one
Tell examiner:
 The knobs are on defroster and heat
 Speed 1 working properly (repeat for all speeds)
 Defroster working properly and provides adequate clear view
Demonstrate:
Change the knob to check the face mode and floor mode
Tell examiner:
Face/Floor modes working properly

Glass and Mirrors (4)

MINOR: Required mirror or window glass fails to provide the required view to the driver as a result of being cracked, broken, damaged, missing or maladjusted

Required mirror or glass has broken or damaged attachments onto vehicle body

Inspection procedure:

Demonstrate:
 Check windshield for any cracks or damages Tell examiner: Windshield is secure and provides clear view
Demonstrate: • Check driver and passenger side window for any cracks or damages
 Tell examiner: The window has no cracks or damages, provides clear view
 Demonstrate: Check the driver door mirror for cracks damages Check if it is adjusted properly for driving Repeat for: Hood mirrors Passenger side mirror Door mirror
Tell examiner: • The mirror has no cracks no damages • Adjusted properly for driving • Repeat for all
Read from Schedule 1

Windshield Wiper / Washer (5)

MINOR: control or system malfunction

- Wiper blade damaged, missing or fails to adequately clear driver's field of vision

- When use of wipers or washer is required -- wiper or washer fails to adequately clear driver's field of vision in area swept by driver's-side wiper.

Inspection procedure:

Demonstrate:Check BOTH wiper arm and rubber blades for any damages		
Tell examiner: • Driver side wiper no damages • Rubber has no damages • Passenger side wiper no damages • Rubber has no damages • Rubber has no damages		
Demonstrate: • Check windshield washer		
 Tell examiner: Washer working properly and cleans view on both sides 		
 Demonstrate: Check all speeds of wiper one by one Look at both wipers after changing speed each time 		
Tell examiner: • Speed 1 working properly • Speed 2 working properly • Speed 3 working properly • Safe and secure		
Read from Schedule 1		