

Key Notes

- ❖ WHEN IN DOUBT G.O.A.L. = **GET OUT AND LOOK**
- **METAL**: Not Bent, Dented, Cracked, Broken, (BDCB), and is securely mounted.
- ➤ **ELECTRICAL WIRES**: Not Cut, Frayed, or Spliced, and securely fastened.
- **RUBBER HOSES OR SEALS**: No Abrasions, Bubbles, or Cuts. (ABC's), securely mounted.
- **PLASTIC**: Not Cracked, Broken, or Damaged, and securely mounted. (CBD)

AIR BRAKES INSPECTION

- Governor Cut-In Test: No lower than (90-100 PSI)
- Governor Cut -Out Test: No higher than (140PSI)
- 1 Minute Applied Leakage Test: No more than (4 PSI)
- Low Air Warning Light & Buzzer Test (55-75PSI)
- Spring Brake Pop Out Test (20-45 PSI)

Air Brake Inspection

Seatbelt On*****

I will be using my (primary)/(secondary) air pressure gauge for the entire air brake inspection.

Don't say, just DO

(Turn the key in position on.)

(My truck is in neutral)

(My brakes are on, PULL on both knobs)

- **I am going to perform my safe start.**

(Start the engine)

Release Both Brakes (Push in Both Knobs) *****

1. (Pump brakes down first to drop pressure to 90 psi.
 - **I am going to fully charge my tanks to not higher than 140 PSI.**
 - **My needle has stopped moving at _____ PSI.**

This is a good test because it is not higher than 140 PSI.

Turn OFF Engine, Turn Key to ON Position

Next, I'm going to perform the 1-minute applied leakage test.

I should not lose any more than 4 PSI in 1 minute.

Push and hold brake

*****Where Is the Needle!?!*****

- My needle has settled at _____ PSI.
- I'm Starting the 1 minute now. **Wait one minute**
- My minute is up. I lost 0, or _____ PSI.
- **This is a good test because I lost no more than 4 PSI.**

Next, is my low air warning light and buzzer test.

My low air warning light and buzzer should come on my dash no lower than 55 PSI.

Pump brake pedal until low air buzzer and light come on.

My low air warning light and buzzer came on at ____ PSI. **This is a good test because it is not lower than 55PSI.**

Next is my spring break pop-out test.

Both my knobs should pop-out

I will pump my brake pedal until my tractor and trailer knobs will pop-out.

- **My knobs popped out at _____ PSI. OR**
- My trailer knob popped out at _____ PSI, and my tractor knob popped out at _____ PSI.
- **This is a good test because it is not less than 20 PSI.**

Tug Test / In-Cab Inspection

Next, I am going to perform my tug test. To do this, I need to fully charge my tanks.

OK, my tanks are fully charged, I'm going to conduct my tug test.

First, I will test my tractor brakes. ***push in RED knob*** (*Put the truck in gear and slowly try to move forward*)

That is a good test because my **tractor** did not move. (*Put it back in neutral.*)

Next, I will test my trailer brakes. *** push in YELLOW knob *** (*Put the truck in gear and slowly try to move forward*)

This is a good test because my **trailer** did not move. (*Put it back in neutral.*)

Next, I'm going to test my service brakes. *** make sure **BOTH** brakes are released***

To do this, I'll move my truck & trailer forward from 3 to 5 mph, and I will apply the service brakes.

Move truck and trailer forward 5 MPH and stop.

My tractor & trailer came to a complete stop, and did not pull to the left or the right, this is a good test.

This is a complete air brake inspection and in-cab inspection.

(Turn off the engine and after turn the key in position on)

In-Cab

- My mirrors are not CBD, securely mounted, clean and clear, and adjusted to the driver at all times.
- My mirror mounting brackets are not BDCB, securely mounted, and not missing any nuts & bolts.
- ***I will check all the rest of the mirrors the same as I checked this one.***
- My windshield is not CBD, it has no illegal stickers or obstructions, and is clean and clear at all times.
- My windshield wiper arms are not BDCB, they are securely mounted and properly working.
- My windshield wiper blades have no ABC, securely mounted, they are soft and pliable.
- This is how I turn **ON** and use my **wipers and fluid**.

Light Indicators

- My left turn indicator is working.
- My right turn indicator is working.
- My 4-way flasher indicators are working.
- My high beam indicator is working.
- My horn is working. *****HONK CITY HORN ONLY*****

Emergency Equipment

- I store my spare electrical fuses right here. They are present in the vehicle at all times.
- My heater and defroster are both working.
- My fire extinguisher is securely mounted, rated, dated, and fully charged.
- I have my 3 reflective triangles stored here.

Next, I'm going to do my outside pre-trip inspection, but before this could you please, assist me to check all the external lights?

- Left turn signal
- Right turn signal
- Four-way flashers
- High beams
- Marker lights

Could you please assist me in checking all of the rear tail lights?

- Running lights
- Left turn signal
- Right turn signal
- Four-way flashers
- Brake lights

PUT TRACTOR IN NEUTRAL, MAKE SURE BRAKES ARE ON, TURN OFF ENGINE, AND TAKE KEY WITH YOU, 3 POINTS OF CONTACT WHEN EXITING!!!!

General Appearance (Full Pre-Trip)

I'm going to check that my tractor is not:

- Leaning to the Left or Right.
- I will check that there are no puddles of oil, coolant, or other fluids on the ground.
- I will check all my lights: **headlights, fender lights, 5 clearance lights,** on tops, sides and lenses. All of these are not CB or D securely mounted, clean and clear, properly working and properly color.

Full Pre-Trip

Open Hood

I will check my **coolant reservoir** is filled above the refill line.

I will check my **motor oil level using a dipstick,** and make sure I have oil above the refill line, and at an appropriate level.

I will check my power steering fluid reservoir, it is filled above the refill line, at the appropriate level.

- I will check my engine hoses. It has no ABC, securely mounted, not leaking, and not missing any clamps.
- I will check my air lines. It has no ABC securely mounted, no audible leaks.

Suspension

- My spring mount is not BDCB, securely mounted, not missing any nuts or bolts, with bushing in place.
- My leaf springs. They are not BDCB, and are securely mounted and not shifted from side to side.
- My U-Bolts is not BDCB, securely mounted, not missing any nuts or bolts.
- I will check my shock absorber. It is not BDCB, and is securely mounted, not missing any nuts or bolts, and is not leaking.

Steering

- My steering box is not BDCB. It is securely mounted, not missing any nuts or bolts, and not leaking.
- I will check power steering hoses have no ABC, securely mounted, not leaking, and not missing any clamps.
- My Steering Shaft, Pitman Arm, Steering Linkage Are not BDCB, securely mounted, not missing any nuts or bolts, and nothing wrapped around it.
- My castle nuts and cotter pin in place are not BDCB, securely mounted, no rust trails or shiny threads.

Brake System

- I will check my brake chamber hose. It has no ABC's, and is securely mounted, and not leaking.
- I will check my brake pads, securely mounted, no oil or grease present.
- I will check my brake drum no oil or grease present.

Front Tires

Now I will move on to checking my tires.

- I will check my tire from the inside to the outside. It has no ABC's, and my tread depth is no less than 4/32nd inch tread depth on my steer tire, and 2/32 inch of the rear tires.
- I will check tread depth with a tread depth gauge.
- I will check my tire pressure with a tire pressure gauge, and the tire pressure should be between 90 -120 PSI.
- I will check my rim and rim bead inside and outside. It is not BDCB, and is securely mounted, no rust, no repair welds.
- I will check my lug nuts. They are not BDCB or Missing, and are securely mounted, no rust trails, no shiny threads.
- My Cab reflector is not CBD, securely mounted, clean, properly color, not missing.

- My **mirror mounting brackets** are not BDCB, securely mounted, and not missing any nuts & bolts.
- My **fuel tank** is securely mounted and not leaking, the fuel **cap** is tight.
- My **battery box** is securely mounted.
- My **battery** is securely mounted, all connections are tight, and should not show any signs of excessive corrosion on the terminal. All **electrical lines** are not cut, spliced or frayed, and are securely fastened.

I will check **the truck frame** from front to back, is not BDCB, not aftermarket holes, no rust and no bad welds.

Coupling System for Full Pre -Trip

Coupling

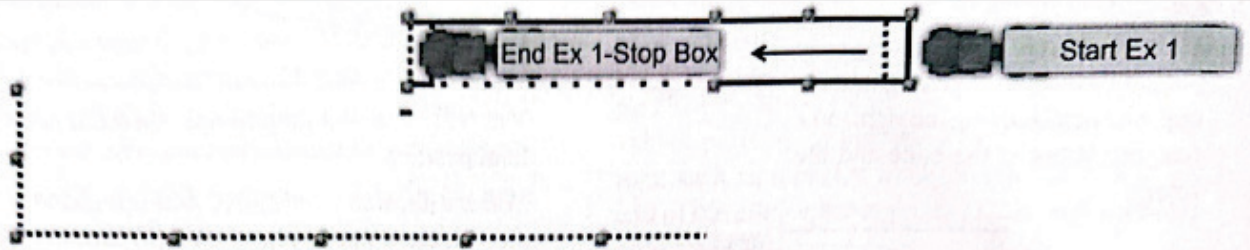
- I will check my **service and emergency lines**, from front to back, making sure they have no ABC's, and are securely mounted, and any audible leaks.
- I will check my **electrical line**, from front to back, making sure it is not cut, frayed, or spliced, and is securely mounted.
- I will check my **glad hands**. They are not BDCB or M, and are securely mounted, not leaking, and are seated properly.
- My **service, emergency, and electrical lines** should not be pinched, tangled, or touching my catwalk or the frame.
- I will check my **release handle**. It is fully engaged and safety latch is in place.
- I will check my **apron**. It is not BDCB, and there is no gap or sunlight between the apron and skid plate.
- I will check if my 5th **wheel locking pin** is not BDCB or M and securely mounted with a **cutter- pin in** place.
- I will check my **5th wheel plate skid plate**. It is not BDCB, is securely mounted and properly greased.
- I will check my **locking jaw**. It is fully enclosed around my king pin shank.
- I will check my **kingpin**. It is not BDCB. My kingpin is locked.
- I will check my **sliding fifth wheel**. It is not BDCB or missing and is securely mounted and properly greased, and **I should have enough clearance for turns**.

Moving on to my trailer:

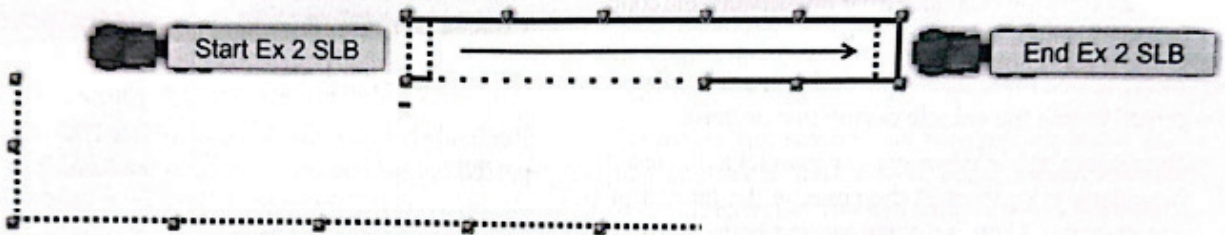
- I will check my **maker lights, reflectors**, they are not CBD, securely mounted, clean and clear, working properly, and properly color.
- I will check **all the DOT stickers** they are present and affixed securely to the trailer, and clearly visible.
- I will check my **landing gear** are not BDCB, and are securely mounted and all the way up, **handle stowed** when not in use, and **there should be enough clearance from my tractor frame to my landing gear for my turns**.

- I will check my **trailer frame & trailer floor**. It is not BDCB. I would check all of my cross members, on the rest of my trailer, the same way I checked this one right here.
- I will check my **marker lights**, they are not CBD, securely mounted, properly working, and properly colored.
- I will check my **rear tail lights** they are not CBD securely mounted, clean and clear, properly working and properly colored.
- I will check **all the DOT stickers** they are present and affixed securely to the trailer, and clearly visible.

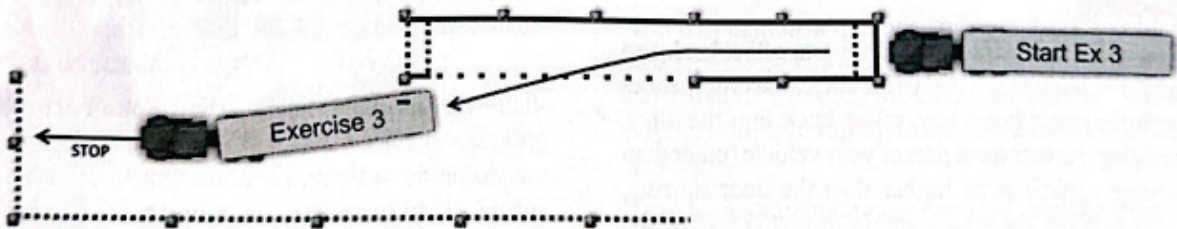
Basic Control Skills Test Exercises



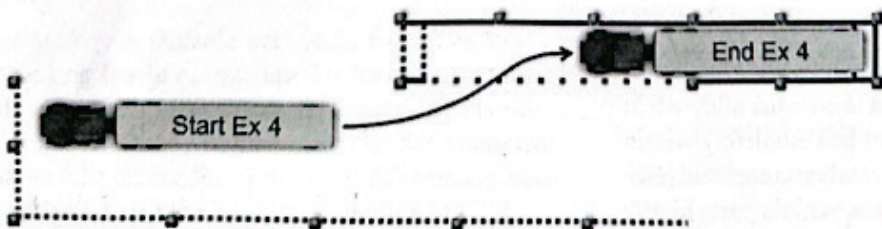
Exercise 1 – Forward Stop
Figure 12M.1



Exercise 2 – Straight Line Backing
Figure 12M.2



Exercise 3 – Forward Offset Backing
Figure 12M.3



Exercise 4 – Reverse Offset Backing
Figure 12M.4

Class A Checklist

Tractor Semi-Trailer or Truck & Trailer or Bus & Trailer

In-Vehicle/Engine Start

- *Air or hydraulic brake check
- Parking & trailer brake check
- Service brake check
- Lighting indicators
- Emergency equipment
- Windshield & traffic monitoring devices
- Wipers & washers
- Heater & defroster
- Horn(s)

Lights Operations Check

- All external lights

Front of Vehicle/Engine Area

- Lenses
- Fluid levels
- Fluid & air leaks
- Steering systems

Steering Axle

- Tires
- Rims
- Lug nuts
- Springs/mounts & air bags & shocks
- Brake lines or hoses & leaks
- Brake contaminates

Side of Vehicle

- Lenses & reflectors
- Traffic monitoring devices
- Battery
- Fuel tank(s)/DEF tank
- Frame(s)

Combination Vehicles Only

- Air & electric lines & connectors
- Fifth wheel skid plate or pintle hook or tow hitch
- Kingpin & apron & gap or drawbar ring & tongue or coupler & tongue
- Locking & safety devices

Trailer Only

- Landing gear & clearance
- Reflective tape

Rear of Trailer

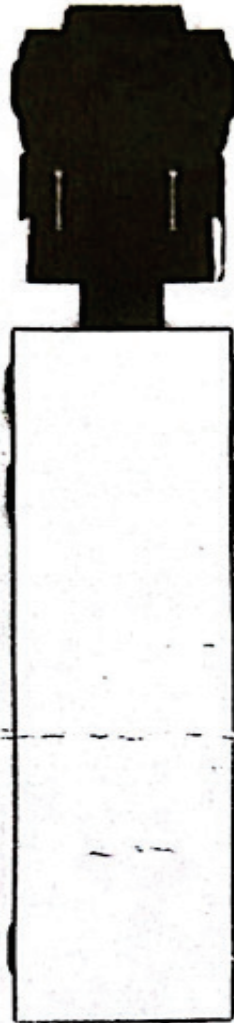
- Lenses & reflectors

Passenger and School Bus Only

- Passenger entry & lift
- Emergency exits
- Passenger seating
- Passenger monitoring devices

School Bus Only

- Student lights (front & back)
- Stop arm(s) & safety arm
- First aid & body fluid kits



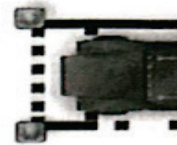
* Automatic failure if Air Brake or Hydraulic Brake check is not explained and demonstrated correctly.

You are only required to inspect the items on the CDL Vehicle Inspection checklist. You may use this checklist for your test and check off items as you have completed them, NO additional markings or writing may be placed on this list. You MUST name, point to and/or touch and fully explain what you are inspecting each safety critical item for. If you do

12M.2 – EXERCISES

12M.2.1 – Exercise 1 – Forward Stop


You will demonstrate your ability to judge the front of your vehicle during a controlled stop. Drive forward through the alley and stop with the front most part of the vehicle (other than unique vehicle parts higher than the door mirrors, such as a bucket truck) within the box at the end of the alley without going past it. You may stop only once.



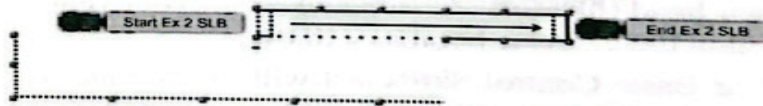
Your examiner will point out the front most part of your vehicle when giving instructions for this exercise.

When you have stopped, set your parking brake, shift to neutral and sound the horn. The examiner will then score the exercise. You will receive points if the front most part of the vehicle (other than unique vehicle parts higher than the door mirrors, such as a bucket truck) is **not** in the stop box. (See Figure 12M.1 on page 12M-4).

12M.2.2 – Exercise 2 – Straight Line Backing

You will demonstrate your ability to back a vehicle in a straight line. From your stopped position from the previous exercise, the examiner will ask you to pull forward and stop when they raise their hand (like this ) .

Then back straight through the alley until the front of your vehicle has cleared the last set of cones at the far end of the alley. (See Figure 12M.2 on page 12M-4.)



You will be scored for pull-ups, encroachments and final position.

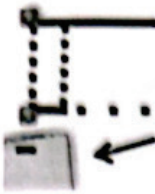
You are allowed one (1) free pull-up and may safely exit the vehicle only one (1) time to check around the vehicle.

When you have completed the exercise, set your parking brake, shift to neutral and sound your horn. This will inform the examiner you have completed the exercise and allow them to score your final position.

12M.2.3 – Exercise 3 – Forward Offset Tracking

You will demonstrate your ability to maneuver a vehicle around other objects while moving forward.

You will drive forward and steer to the left through the opening into the opposite lane, keeping the right most rear tire between the cone and the line.



You will be scored for back-ups, encroachments and forward tracking clearance (rear tire between the cone and the line).

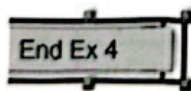
There are NO free back-ups, and you are NOT permitted to exit the vehicle during this exercise.

Stop your vehicle when you are parallel to the outer boundary, prior to or at the cones at the far end of the exercise. Then, set your parking brake, shift to neutral and sound your horn. This will inform the examiner you have completed the exercise and allow them to score the exercise. (See Figure 12M.3 on page 12M-4.)

12M.2.4 – Exercise 4 – Reverse Offset Backing

You will demonstrate your ability to offset back and park a vehicle at the end of an alley. Starting parallel with the outer boundary, offset back into the alley, bringing the rear most part of your vehicle (other than unique vehicle parts higher than the door mirrors, such as a bucket truck) within three (3) feet of the rear of the alley.

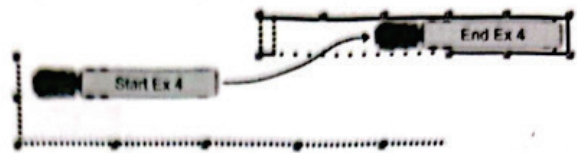
Stop with the rear most part of the vehicle (other than unique vehicle parts) in the three (3) foot box at the end of the alley.



Your examiner will point out the rear most part of your vehicle when giving instructions for this exercise.

Your vehicle must be straight within the alley when completed. Your vehicle must be completely within the defined exercise boundaries when completed (other than mirrors or other unique vehicle parts higher

than the door mirrors, such as a bucket truck). You may not go beyond the outer boundary line. (See Figure 12M.4 on page 12M-4.)



You will be scored for pull-ups, encroachments and final position.

You are allowed two (2) free pull-ups and may exit the vehicle a maximum of two (2) times to check around the vehicle during this exercise.

When you have completed the exercise, set your parking brake, shift to neutral and sound your horn. This will inform the examiner you have completed the exercise and allow them to score your final position.

12M.3 – ROAD TEST

Remember, the Basic Control Skills test must be passed before you can proceed to the Road Test