

**CLASS "A" PRE-TRIP STUDY GUIDE**

**WHAT ARE THE AIR BRAKE SYSTEM PARTS?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_

**WHAT IS THE FOUNDATION OF THE AIR BRAKES?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_

**HOW DOES THE AIR BRAKE SYSTEM WORK?**

The \_\_\_\_\_ pumps air through the air lines to the \_\_\_\_\_. The \_\_\_\_\_ controls the amount of air pressure that is in the air brake system. The governor will cut in at \_\_\_\_\_ PSI and will cut out at \_\_\_\_\_ PSI. It then travels through the \_\_\_\_\_ to the \_\_\_\_\_. When the \_\_\_\_\_ is applied, the air pressure travels through the air line to the \_\_\_\_\_ filling it with air and pushing out the \_\_\_\_\_, which then pushes out the \_\_\_\_\_ which spins the \_\_\_\_\_ and turns the \_\_\_\_\_ which then turns the \_\_\_\_\_ to push away the \_\_\_\_\_ to rub into the \_\_\_\_\_ to create friction to stop the vehicle. When the \_\_\_\_\_ is released, the \_\_\_\_\_ brings the brake shoes back to the normal position.

**AIR LEAK TEST**

**HOW DO YOU PREFORM A STATIC AIR LEAK TEST?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

**HOW DO YOU PREFORM AN APPLIED AIR LEAK TEST?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

**WHAT DOES THE FIRST FAN DOWN OF THE AIR LEAK TEST CHECK?**

1. \_\_\_\_\_
2. \_\_\_\_\_

**HOW DO YOU PREFORM THE FIRST FAN DOWN?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_

**WHAT DOES THE SECOND FAN DOWN OF THE AIR LEAK TEST CHECK?**

1. \_\_\_\_\_

**HOW DO YOU PREFORM THE SECOND FAN DOWN (SPRING BRAKE POP OUT TEST)?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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**HOW DO YOU CHECK THE SLACK ADJUSTER?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**HOW DO YOU CHECK THE TRAILER AIR BRAKE SYSTEM?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**IF YOU HAVE GREASE ON YOUR BRAKE SHOES AND BRAKE DRUMS, WHERE DOES IT COME FROM?**

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**HOW DO YOU CHECK/TEST THE TRACTOR PARKING BRAKE?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

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**HOW DO YOU CHECK/TEST THE TRAILER PARKING BRAKE?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

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**HOW DO YOU CHECK/TEST THE SERVICE BRAKE (FOOT PEDAL)?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

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**WHAT COULD BE WRONG IF THE TRUCK MOVES FROM LEFT TO RIGHT WHEN APPLYING THE SERVICE BRAKE?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**HOW DO YOU CHECK/TEST THE TRAILER SERVICE BRAKE (ALSO KNOWN AS THE JOHNSON BAR, THE TROLLEY VALVE OR THE HAND BRAKE)?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**THE SECOND WAY TO TEST THE TRAILER SERVICE BRAKE (ALSO KNOWN AS THE JOHNSON BAR, THE TROLLEY VALVE OR THE HAND BRAKE) IS?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**WHAT COULD BE WRONG IF THE TRUCK MOVES FROM LEFT TO RIGHT WHEN APPLYING THE TRAILER SERVICE BRAKE?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**WHAT ARE THE PARTS OF THE TRAILER SUSPENSION?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_

**WHAT ARE THE PARTS OF THE FRONT SUSPENSION?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_

**WHAT ARE THE PARTS OF THE REAR SUSPENSION (MECHANICAL)?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

**WHAT ARE THE PARTS OF THE REAR SUSPENSION (WITH AIR RIDE)?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

**WHAT ARE YOU CHECKING THE FRONT TIRES FOR?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

**WHAT ARE YOU CHECKING THE REAR TIRES FOR?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

**WHAT ARE YOU CHECKING THE RIMS FOR?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**WHAT MAKES THE SPACE BETWEEN THE DUAL TIRES?**

1. \_\_\_\_\_

**HOW OFTEN ARE YOU SUPPOSED TO DRAIN THE AIR STORAGE TANKS?**

1. \_\_\_\_\_

**WHAT ARE YOU CHECKING THESE ITEMS FOR IN THE ENGINE COMPARTMENT?**

**BELTS**

1. \_\_\_\_\_

**FLUIDS**

2. \_\_\_\_\_

**AIR LINES**

3. \_\_\_\_\_

**ELECTRICAL WIRES**

4. \_\_\_\_\_

**WHAT ARE YOU CHECKING THESE ITEMS FOR ON THE EXHAUST SYSTEM?**

**EXHAUST PIPE**

1. \_\_\_\_\_

**MUFFLER**

2. \_\_\_\_\_

**TAIL PIPE**

3. \_\_\_\_\_

**WHAT ARE YOU CHECKING ON THE PEDAL?**

**CLUTCH PEDAL**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

**BRAKE PEDAL**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

**ACCELERATOR PEDAL**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_



**WHAT ARE YOU CHECKING FOR ON THE FLOOR OF THE TRUCK?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**WHAT ARE THE TWO TYPES OF HORNS?**

1. \_\_\_\_\_
2. \_\_\_\_\_

**WHAT ARE YOU CHECKING THESE ITEMS FOR?**

**BLUE (SERVICE) LINE**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**RED (EMERGENCY) LINE**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**ELECTRICAL LINE**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**ALL LINES SHOULD BE**

1. \_\_\_\_\_
2. \_\_\_\_\_

**WHAT DOES "ICC" AND "DOT" STAND FOR?**

**ICC -**

1. \_\_\_\_\_

**DOT -**

2. \_\_\_\_\_

**WHAT IS THE PURPOSE OF THE "ICC BAR" OR "D.O.T. BAR"?**

1. \_\_\_\_\_

**WHAT ARE THE STEERING SYSTEM PARTS?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_

**WHAT ARE YOU CHECKING THE STEERING WHEEL FOR?**

1. \_\_\_\_\_
2. \_\_\_\_\_

**WHAT DO THESE ITEMS CONTROL FOR THE BRAKES?**

**YELLOW PARKING BRAKE -**

1. \_\_\_\_\_

**RED EMERGENCY BRAKE -**

2. \_\_\_\_\_

**JOHNSON BAR -**

3. \_\_\_\_\_

**BRAKE PEDAL -**

4. \_\_\_\_\_

**WHAT IS THE PROPER ANGLE BETWEEN THE PUSH ROD AND THE SLACK ADJUSTER WHEN...**

**THE BRAKES ARE RELEASED?**

1. \_\_\_\_\_

**THE BRAKES ARE APPLIED?**

2. \_\_\_\_\_

**HOW DO YOU ADJUST THE BRAKES OR SLACK ADJUSTER?**

1. \_\_\_\_\_  
\_\_\_\_\_

**THE GOVERNOR WILL -**

CUT IN AT \_\_\_\_\_ PSI

CUT OUT AT \_\_\_\_\_ PSI

**WHAT WILL HAPPEN IF THE GOVERNOR DOES NOT CUT OUT AT 125 PSI?**

1. \_\_\_\_\_  
\_\_\_\_\_

**WHAT ARE YOU CHECKING THE FIFTH WHEEL FOR?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**WHAT EMERGENCY EQUIPMENT SHOULD YOU HAVE?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**WHAT ARE YOU CHECKING THE WINDSHIELD FOR?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**WHAT ARE YOU CHECKING THE MIRRORS FOR?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**WHAT ARE YOU CHECKING THE DOORS FOR?**

1. \_\_\_\_\_
2. \_\_\_\_\_

**WHAT ARE YOU CHECKING THESE ITEMS FOR?**

**HEAD LIGHTS -**

WHAT ARE THE TWO FUNCTIONS?

1. \_\_\_\_\_
2. \_\_\_\_\_

WHAT ELSE ARE YOU CHECKING THEM FOR?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**TURN SIGNALS -**

WHAT ARE THE THREE FUNCTIONS?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

WHAT ELSE ARE YOU CHECKING THEM FOR?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**(ON TOP OF THE TRUCK)**

WHAT DO THE 3 ID LIGHTS INDICATE?

1. \_\_\_\_\_

WHAT ARE YOU CHECKING THEM FOR?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

WHAT DO THE 2 CLEARANCE LIGHTS INDICATE?

1. \_\_\_\_\_

WHAT ARE YOU CHECKING THEM FOR?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**(ON THE BACK OF THE TRAILER - ON TOP)**

WHAT DO THE 3 ID LIGHTS INDICATE?

1. \_\_\_\_\_

WHAT ARE YOU CHECKING THEM FOR?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

WHAT DO THE 2 CLEARANCE LIGHTS INDICATE?

1. \_\_\_\_\_

WHAT ARE YOU CHECKING THEM FOR?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**(ON THE BACK OF THE TRAILER - ON THE BOTTOM)**

OUTSIDE SIGNAL LIGHTS -

WHAT ARE THE THREE FUNCTIONS?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

WHAT ARE YOU CHECKING THEM FOR?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

INSIDE BRAKE LIGHTS -

WHAT ARE YOU CHECKING THEM FOR?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

ICC BAR -

WHAT ARE YOU CHECKING IT FOR?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

***ANSWERING THE QUESTIONS ON THIS STUDY GUIDE  
DOES NOT MEAN THAT YOU SHOULD NOT READ THE  
CDL BOOK THAT IS AVAILABLE TO DOWNLOAD  
ONLINE AT [CYBERDRIVEILLINOIS.COM](http://CYBERDRIVEILLINOIS.COM) OR FROM THE  
DMV AT NO CHARGE***

***PLEASE MAKE SURE THAT YOU STUDY  
AND YOU ARE PREPARED FOR YOUR TEST  
DAY***