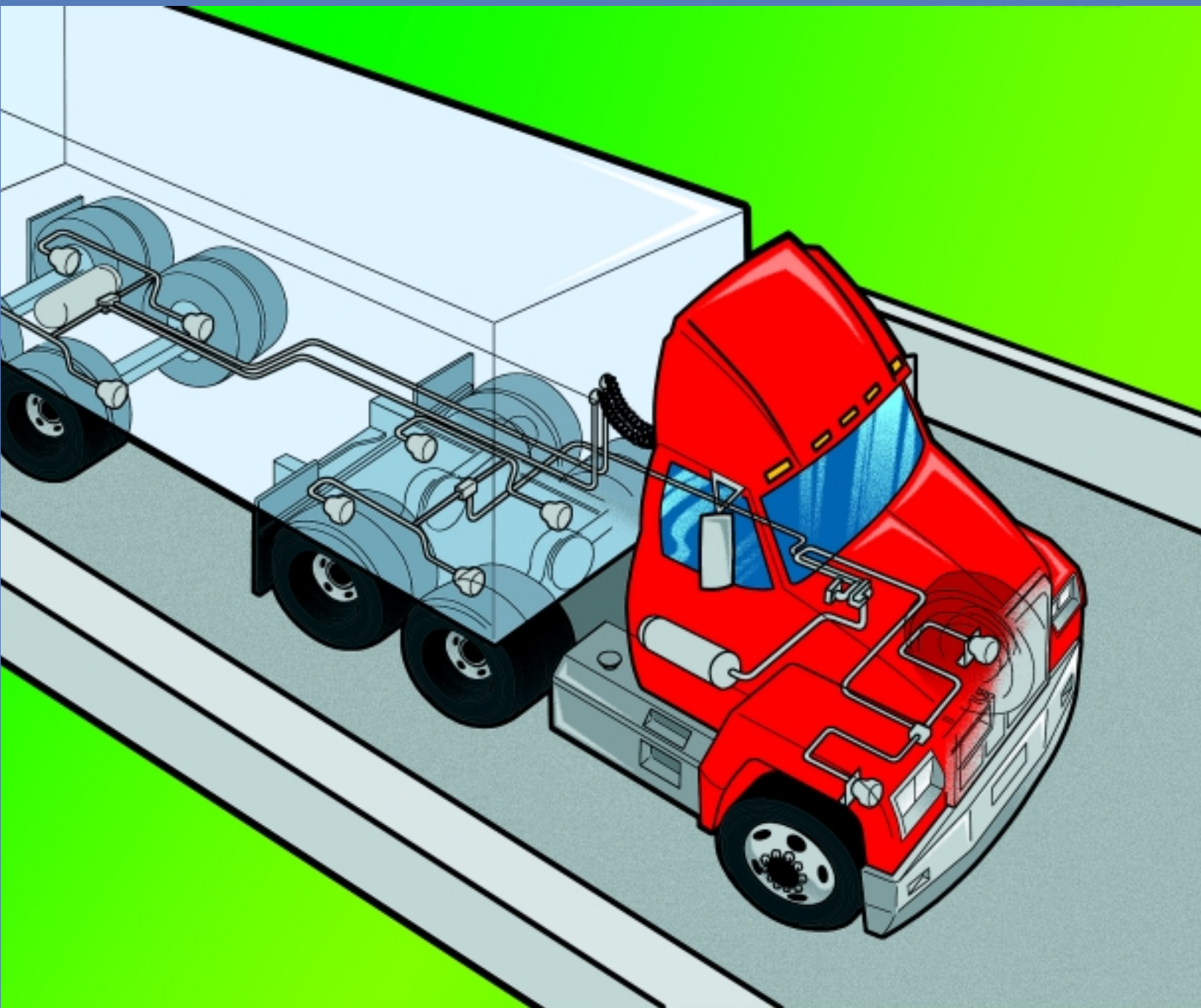


Air Brake Manual



Foreward

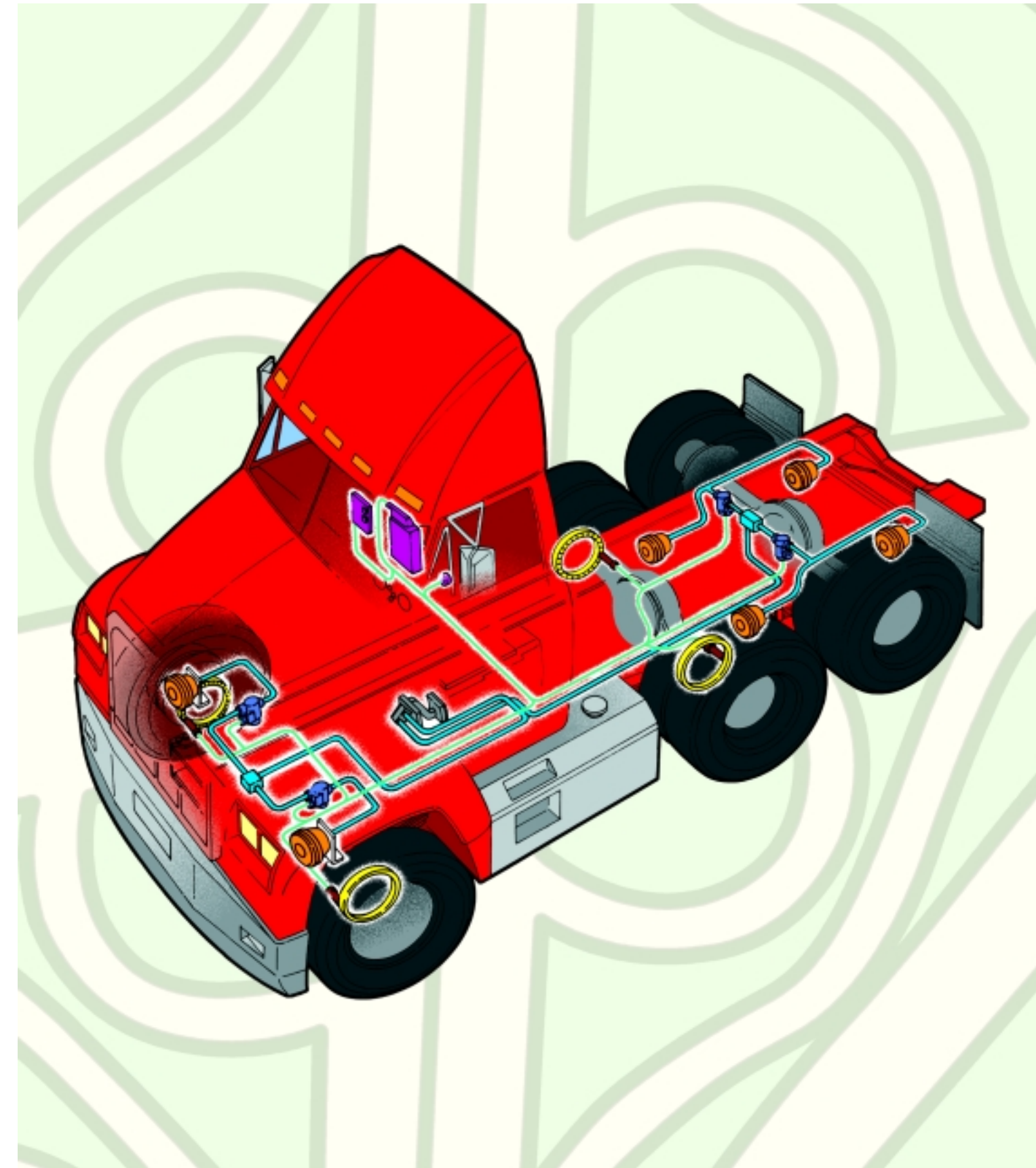
The Air Brake Manual has been prepared by the Department of Public Safety (Licensing and Records) to assist drivers in understanding the basic operation and function of an air brake system. The study of this manual, together with practical instruction, is recommended for a driver who is preparing for the air brake examination. A large illustration of a complete dual air brake system is located on the inside cover and can be folded out and referred to when studying this manual. Study questions are included at the end of each section so that readers may self-test their understanding of the subject matter. Drivers who have qualified and are authorized to operate air brake equipped vehicles are encouraged to review this manual on a periodic basis to ensure they are fully aware of the proper method of inspecting an air brake system and identifying problems that can occur when the system malfunctions.

The illustrations and explanations of various types of brake system designs are provided for instructional purposes only. Most air gauges measure in imperial units. Therefore the measurements used and relating to the air brake system will be in imperial units. This manual has no legislative sanction. For interpreting and applying the law, consult the *Motor Vehicle Act* and its regulations.

We gratefully acknowledge the contributions of all jurisdictions, particularly **Manitoba**.

www.gnb.ca/0276/index.htm

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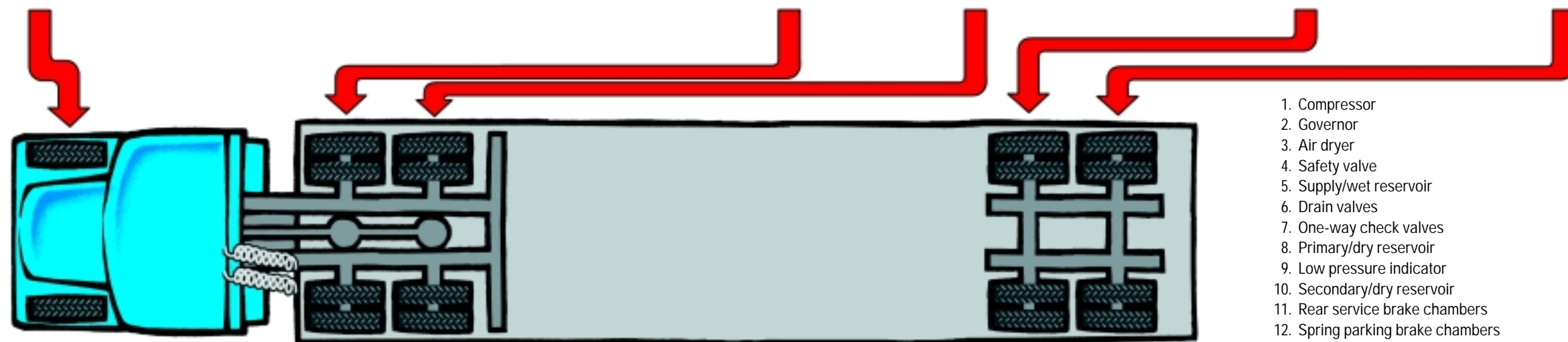
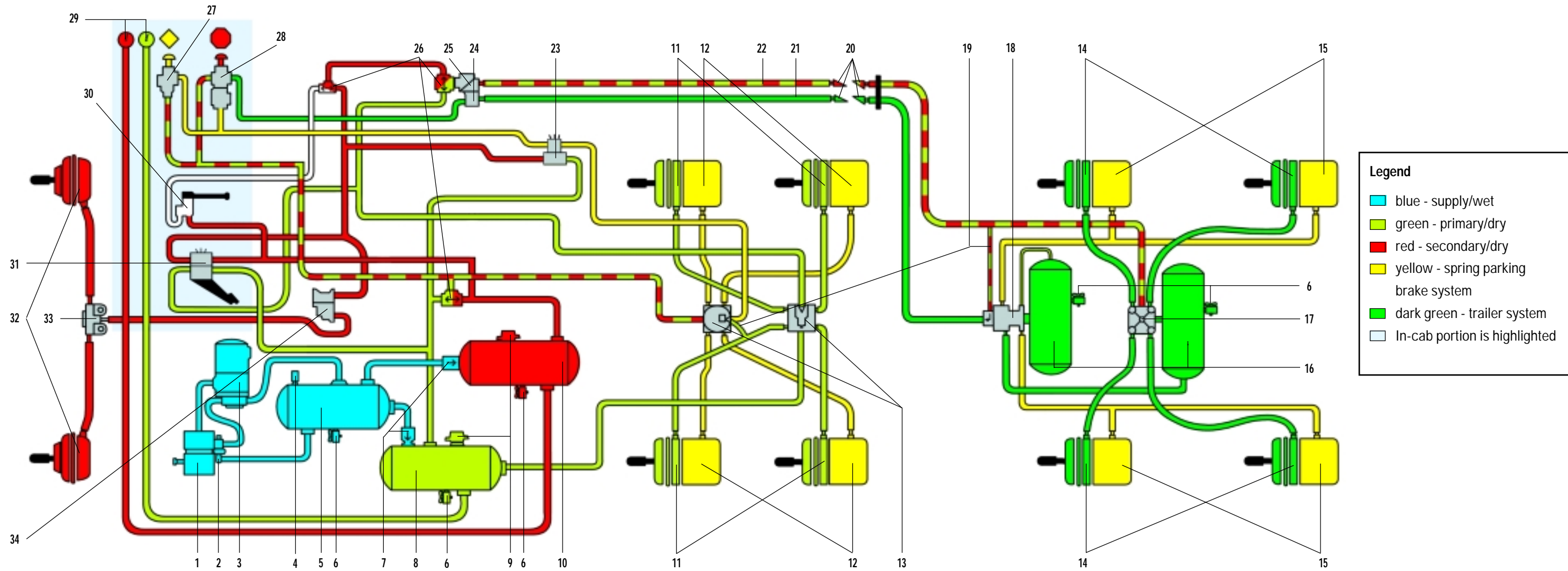


Air Brake Endorsement

- permits the holder to drive vehicles equipped with air brakes in class of vehicle for which the driver is licenced.
- To adjust manual slack adjusters, the operator must hold an "E" brake endorsement.

Requirements for Air Brake Endorsement

- Must complete an Air Brake Written Test.
- Must complete an Air Brake Practical Test.



- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Compressor 2. Governor 3. Air dryer 4. Safety valve 5. Supply/wet reservoir 6. Drain valves 7. One-way check valves 8. Primary/dry reservoir 9. Low pressure indicator 10. Secondary/dry reservoir 11. Rear service brake chambers 12. Spring parking brake chambers 13. Tractor relay valves 14. Trailer service brake chamber 15. Trailer spring parking brake chamber 16. Trailer reservoirs 17. Trailer relay valve 18. Trailer spring parking brake valve 19. Anti-compound lines 20. Glad hands | <ol style="list-style-type: none"> 21. Supply (emergency) line 22. Control (service) line 23. Spring brake modulator valve 24. Tractor protection valve 25. Stop lamp switch 26. Two-way check valves 27. Spring parking brake control valve 28. Trailer supply valve 29. Reservoir air pressure gauges 30. Trailer brake hand valve 31. Foot valve 32. Front service brake chambers 33. Quick release valve 34. Automatic front brake limiting valve <p>This illustration has an automatic front brake limiting valve (34), and therefore the control valve (35), for a manual front brake limiting valve (36) are not shown here, but appear later in the manual.</p> |
|---|---|

Dual Air Brake System

CHECK THE SLACK!
It is up to YOU,
the DRIVER,
to ensure that
your vehicle has
safe, properly
adjusted brakes.