

Product Training Workbook

**L20022** Rev. 12/03







Truck/Tractor/Bus

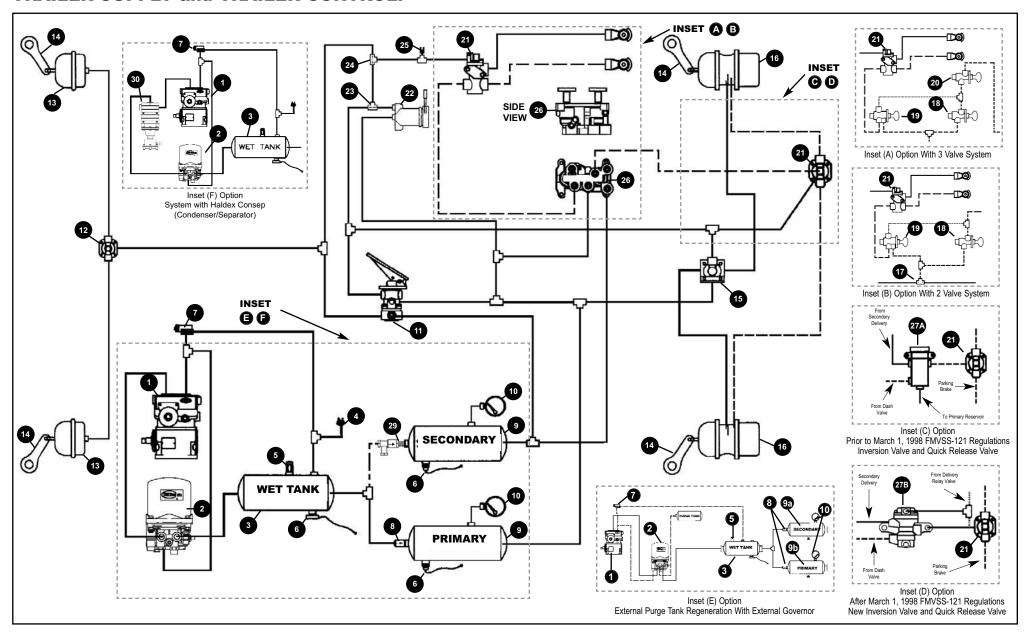
Full Component Breakdown

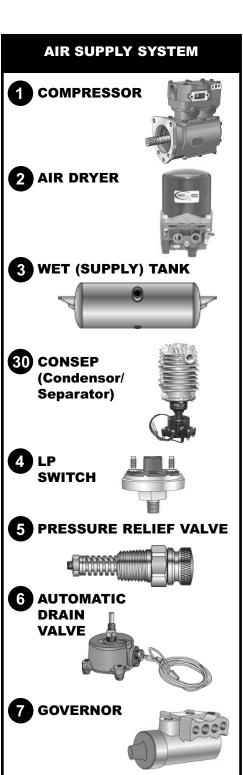
Easy to Follow System Schematic

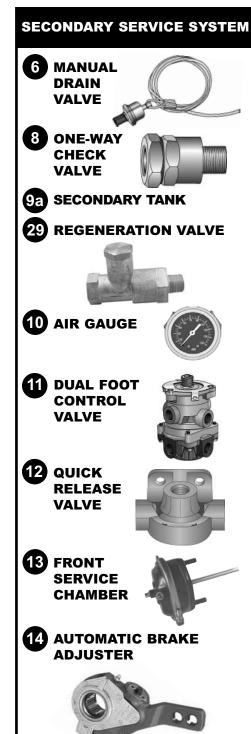
# **INTRODUCTION**

The purpose of an air brake system on heavy duty vehicles is to convert air pressure to mechanical energy to activate the foundation brakes. The **FMVSS-121** brake law dictates how this is to be done for over-the-road vehicles. The purpose of this workbook is to help you construct a complete air brake system by using smaller systems. The systems covered in this workbook include:

AIR SUPPLY, SECONDARY SERVICE, PRIMARY SERVICE, PARKING, ANTI-COMPOUNDING, EMERGENCY, TRAILER SUPPLY and TRAILER CONTROL.







# PRIMARY SERVICE SYSTEM 6 MANUAL DRAIN VALVE 8 ONE-WAY CHECK VALVE 95 PRIMARY TANK (1) AIR GAUGE 11 DUAL FOOT CONTROL VALVE **14)** AUTOMATIC BRAKE **ADJUSTER 15** SERVICE RELAY VALVE 16 SPRING BRAKE 23 TWO-WAY CHECK **VALVE 25** STOP LIGHT **SWITCH**







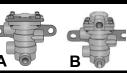






**RELAY VALVE** WITH TWO-WAY

#### **EMERGENCY SYSTEM**



### TRAILER SUPPLY SYSTEM

19 TRAILER **DASH VALVE** 

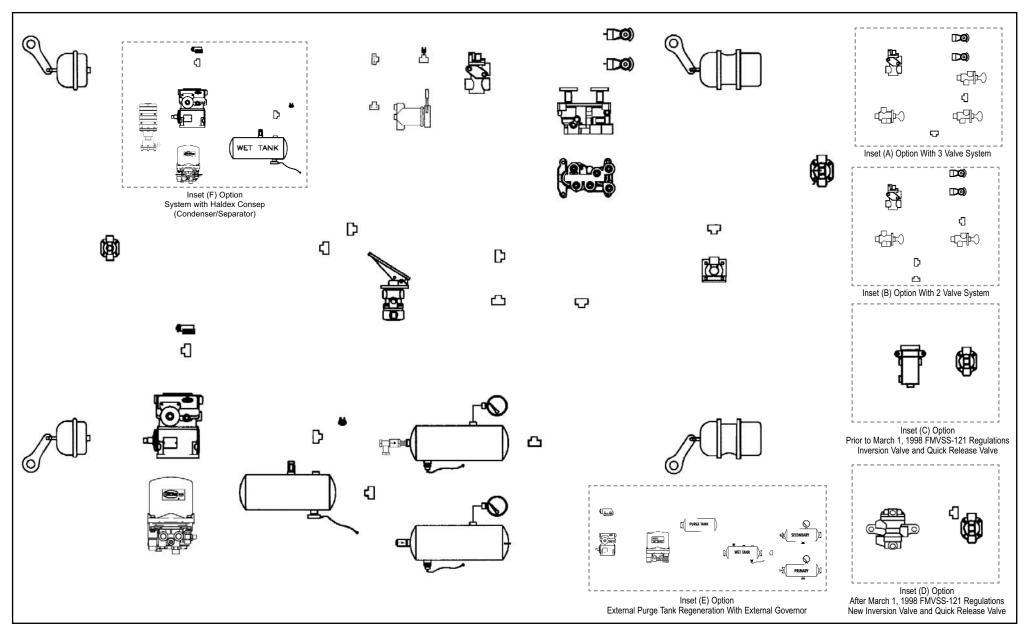


23 24 TWO-WAY CHECK VALVE



HAND CONTROL VALVE







#### L20022 US 3/07 10M ART (Last Rev. 12/03) 4/09 Address Block Updated Web Only

## **Commercial Vehicle Systems**

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