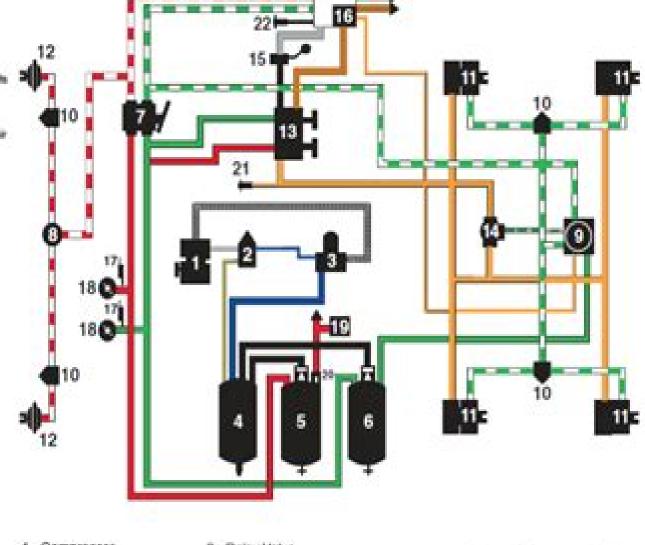
This schematic describes the air brake system. All colors are as they appear on the tubing in the vehicle. Components are grouped logether so that the left of the schematic represents the font of the vehicle and the right represents the rear of the vehicle. Other locations are not representative of true location in the vehicle.

Use the schematic for troubleshooting and understanding the air trake system function. To separate the supply and operation systems, the operation system is shown with deshed lines, in the vehicle, all futing is solidly optioned.

Colors are to current standard (see list on page 8) and are separated into main groups, as listed:



- Supply System Circuit

Front Service Brake Circuit

Rear Service Brake Circuit

Parking Brake Circuit

Trailer Supply Circuit

. Tjmlins Mond Contest Classift.

Compressor

2 Governor

3 Air Dryser

9 Relay Valve

10 ABS Modulator Valve

11 Spring Brake Chamber

17 Low Air Pressure Switch

18 Air Gaune

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Semiconductor Design and Implementation Issues in Integrated Vehicle Electronics John H. Hall, 2005 This major research study provides a fresh critical look at the way automobile electronics are and should be built Written by Silicon Valley pioneer John Hall this book is based on his nearly 40 years of experience in developing and producing semiconductors for the automobile industry and other customers Highly readable and comprehensible for even beginning students of electronics and semiconductor design this volume provides an in depth explanation of the factors to be considered when building vehicle systems Starting with a concise history of vehicle electronics Hall walks the reader through the environmental conditions faced by these systems and the variety of failure mechanisms that can occur Basic and advanced semiconductor issues raised by vehicle implementation are then discussed in detail A wide range of issues confronting designers from over marketing of risky features to time and cost constraints are explained Complex electronic modules from many different manufacturers are examined and discussed as real world case studies of good and bad design techniques Hall concludes by providing design recommendations that will allow vehicle electronics system developers to build much tougher devices at little or no incremental production cost This book is the first major work to focus on key issues emerging as major causes of safety and performance problems Vehicle makers increasingly seek market advantages by providing ever more capable electronics in their products While these features add much value to vehicles they fail in ways that are beyond the experience and comprehension of most technicians and accident investigators By combining decades of design experience and innovation with extensive research Hall has produced unique insights and explanations so engineers can prevent most or perhaps all of these problems John Hall is one of Silicon Valley's most prolific independent pioneers and inventors He founded Union Carbide's semi conductor operation in 1962 He is a founder of Interstil and Micro Power Systems He is the inventor of the first electronic watch first LCD digital watch first CMOS liquid crystal display hand held calculator color autofocus cameras among many successful commercial products He has worked for many American and foreign automakers on specific projects such as integrated two way radios and seat belt interlocks He is working with DoD on hardening electronics systems against non nuclear events Road and Track ,1985 **Popular Science** ,2002-12 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make **Pontiac** General Motors of Canada Ltd,1981 Anti-Lock Braking System Charles White, 2001-05 it better Understanding testing and diagnosing anti lock brake systems ABS fitted to all mainstream European or European derived cars and vans from 1982 to date Covers Bendix Bosch Clayton Girling Kelsey Hayes Lucas and Teves systems as fitted to Alfa Romeo Audi BMW Citro n Daewoo FIAT Ford Jaguar Daimler Lancia Land Rover Mercedes Benz Peugeot Renault Rover MG SAAB SEAT Skoda Vauxhall Opel Volkswagen general test equipment procedures and fault diagnosis 22 system specific

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