



Making learning easy

Multiplexed Vehicle Systems

developed in co-operation with Hella

Chapter one - Multiplex - What is multiplex?:

- Definition and classification
- Comparisons with conventional wiring
- Pros and cons summary
- Troubleshooting in multiplexed systems
- Trends

Chapter two - Background info:

- Introduction to vehicle E/E architecture
- The physical view of vehicle content
- The functional view of vehicle content
- Allocation
- Function domains

Chapter three - Fundamentals:

- Basic communication concepts
- Physical implementation
- Messages
- Typical multiplex nodes

Chapter four - Diagnostics:

- Introduction
- Fault causes in multiplexed systems
- Diagnostics information
- Troubleshooting methods
- Diagnostic system strategies
- Diagnostic standards

Chapter five - Vehicle examples:

- Driver user functions
- Electrical systems and subsystems

Chapter six - Protocol examples:

- CAN
- J1850
- ISO 9141
- KWP 2000



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