

Diagnostic Communication and Networks

K-Line
CAN Gateway
LIN Bus
Fiber Optic (MOST)



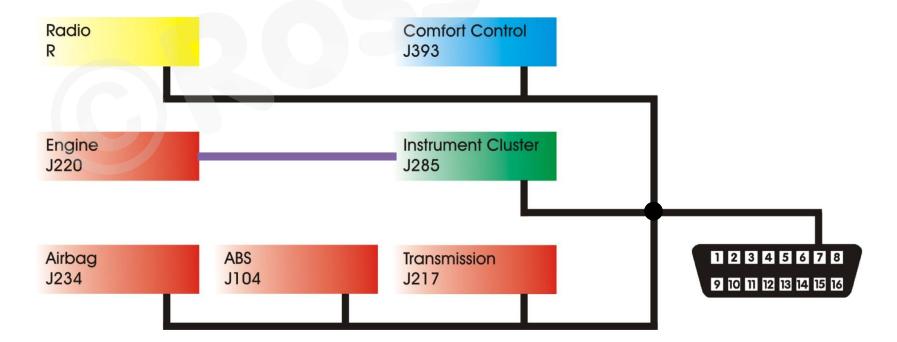
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

- 1 Terminal 15 (power with ignition switched on.)
- 4 Ground (Terminal 31)
- 5 Signal Ground
- 6 CAN High
- 7 K Line
- 14 CAN Low
- 15 K2 Line
- 16 +12V (Terminal 30)



K - Line

- Single Wire Data bus kind of slow
- Phased out from 2004 to 2011 (N.A. market)
- Aftermarket radios or a failed module can lock the K-Line

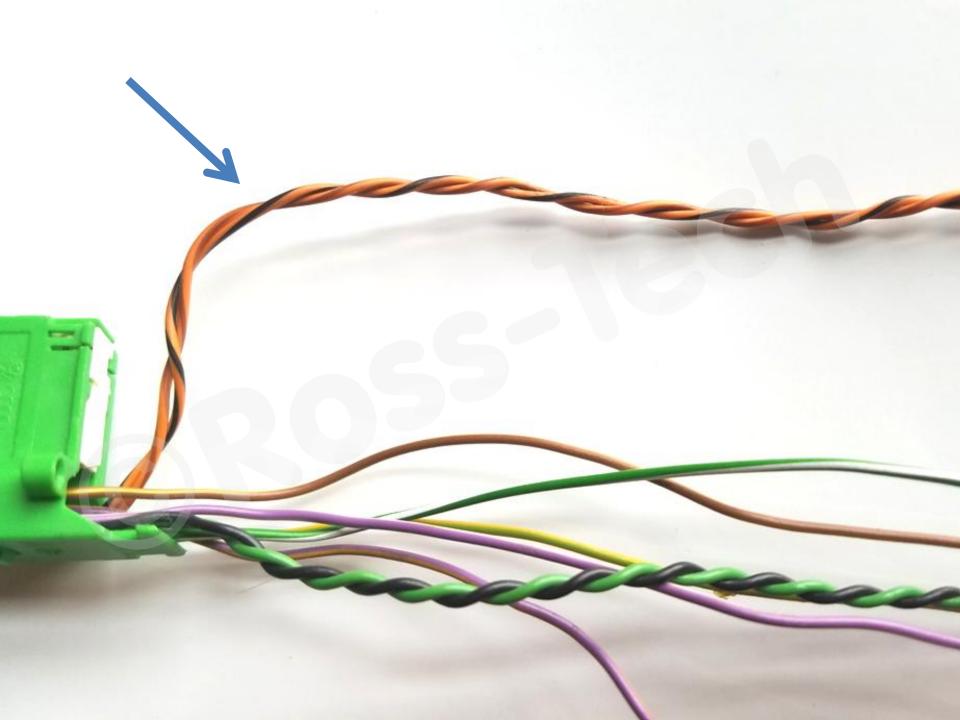




Diagnostic C.A.N Bus

Controller Area Network

- 2 wire Data Bus (twisted pair, hi-speed)
- CAN High and CAN Low
- Phased in from 2004 to 2011 (N.A. market)
- Diagnostic CAN
- Powertrain CAN
- Convenience (Comfort) CAN
- Infotainment CAN
- Instrument Cluster CAN



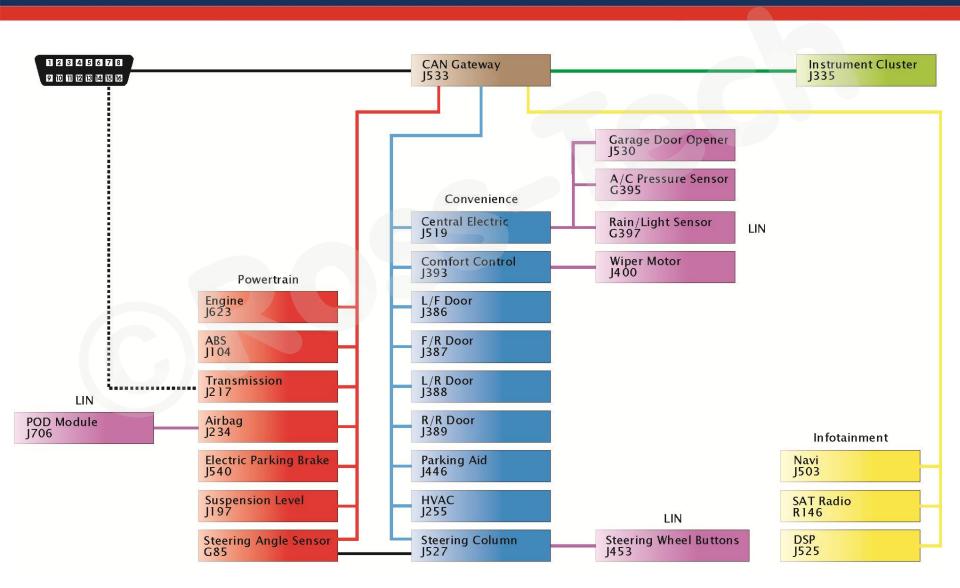


L.I.N Bus

Local Interconnect Network

- Single wire data bus
- Lower cost and slower than CAN Bus
- Master module and slave module
- Up to 16 slave modules per master module
- Simple systems, wiper motor, button controls, ect





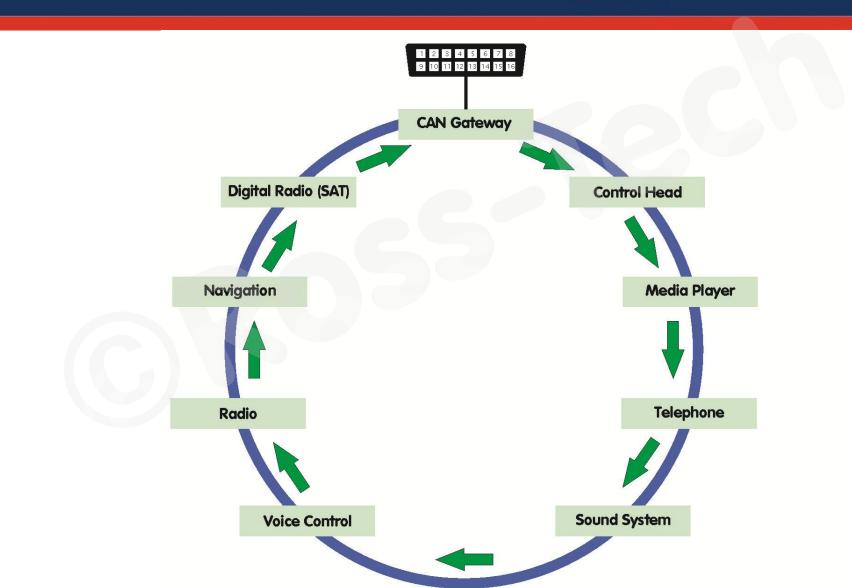


M.O.S.T

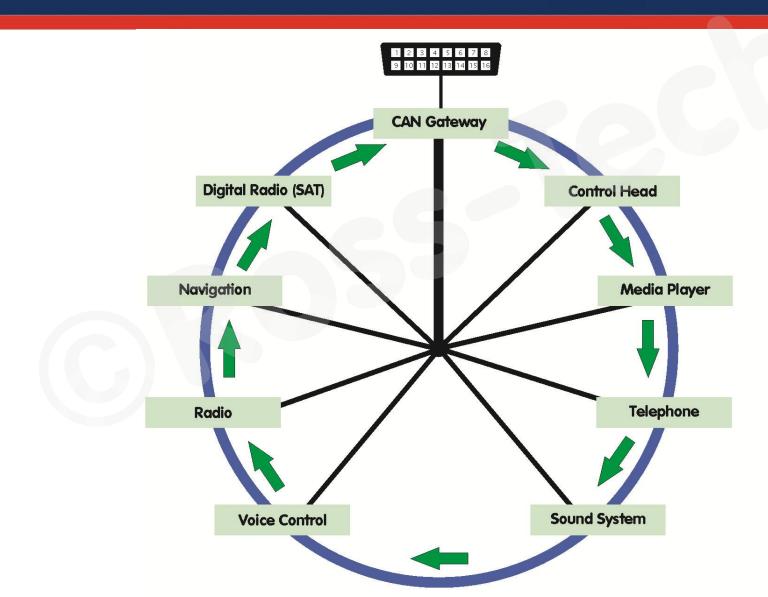
Media Oriented Systems Transport

- Fiber optic system
- Highest speed network
- Data travels in 1 direction over fiber optic, forming a ring
- VCDS will show order of Optic Bus
- Modules on MOST also are connected to Diagnostic CAN Gateway

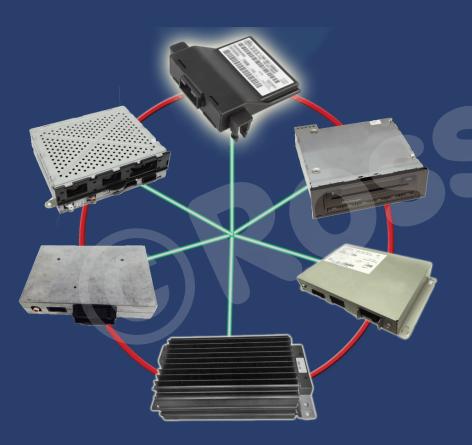


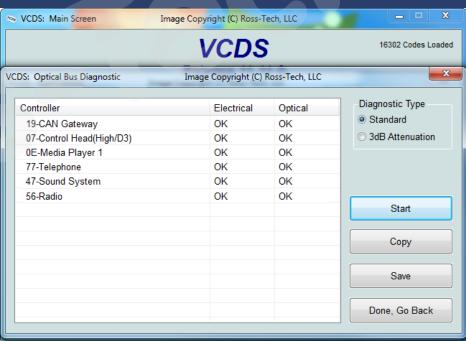






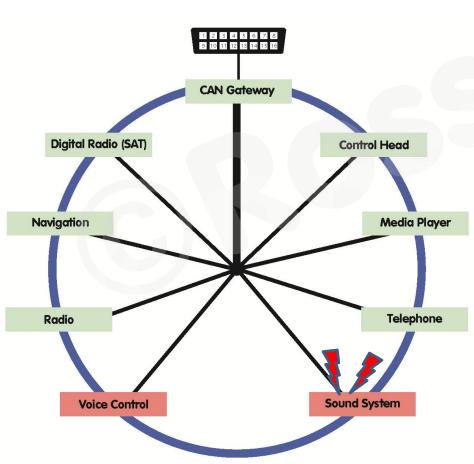


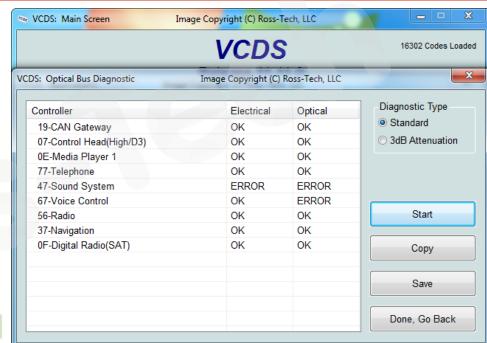




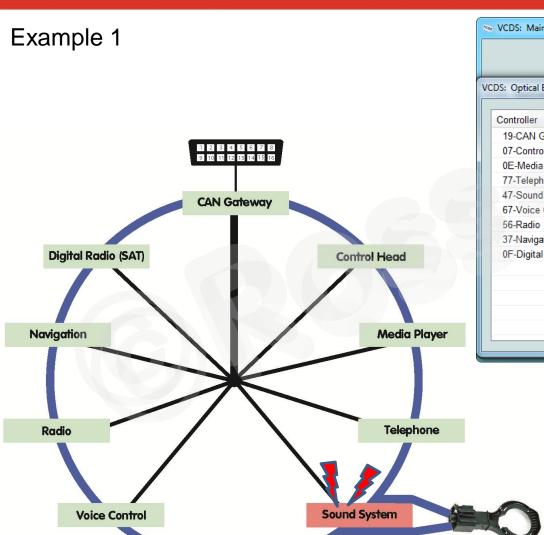


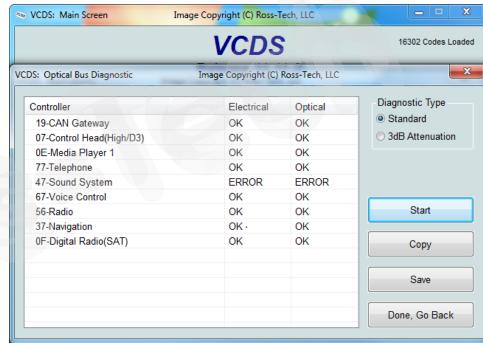








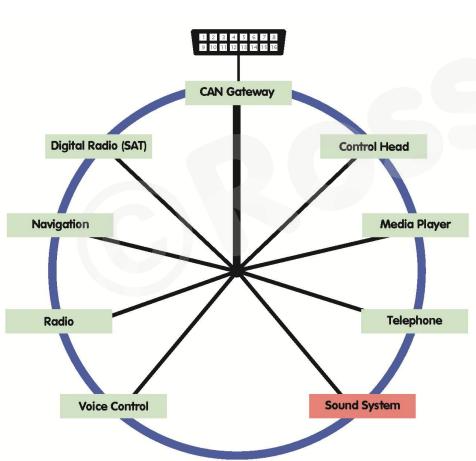


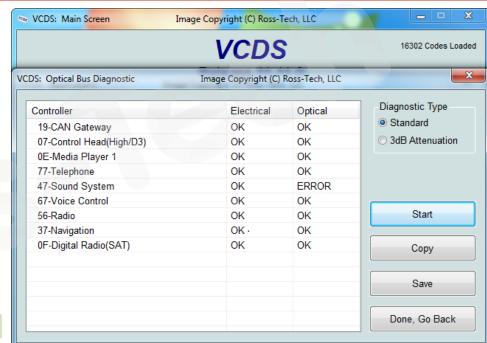


Part number: 4E0 973 802

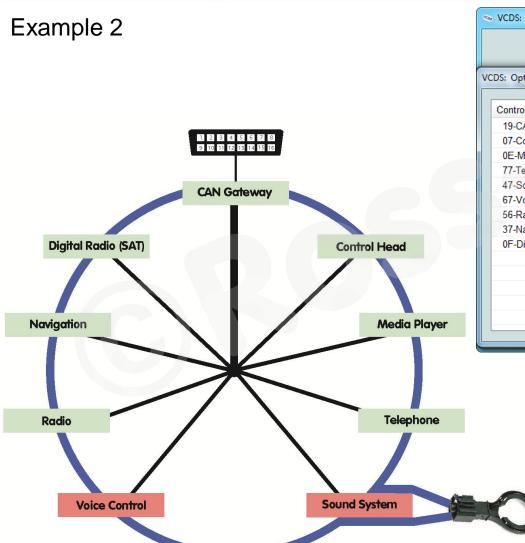


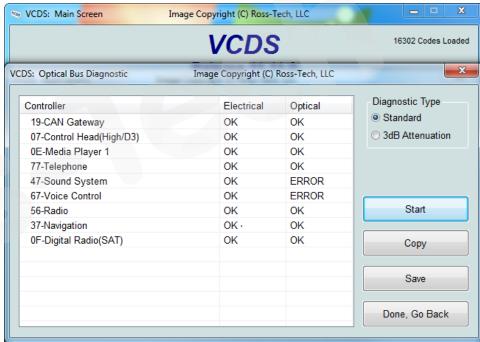
Example 2







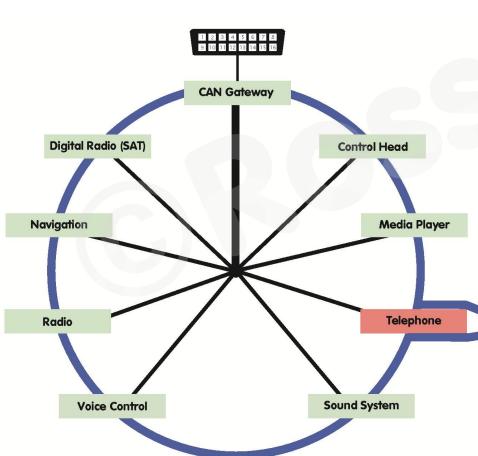


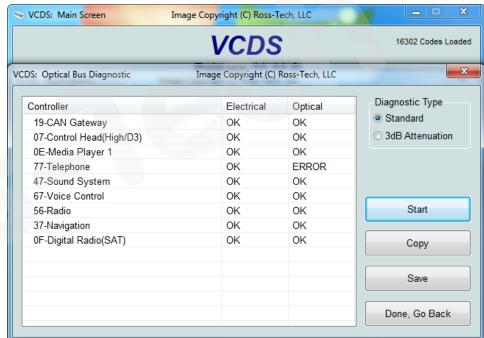


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