

<p>American Bus Video Division of FMI</p> <p>2545 Valley Ridge Dr. Cumming, GA. 30040 770-263-8118 Tel 770-887-5944 Fax AmericanBusVideo.com</p>	<p>MULTIPLEXED BUSES</p> <p>AFFECTED: New technology on some 2003- present model buses</p> <p>NOT AFFECTED: Older than 2002 or standard electrical systems</p>	<p>FIELD SERVICE MEMO #4</p> <p>Issue Date September 21, 2007</p>
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TOPIC	MULTIPLEXED BUSES
PROBLEM	For several years bus manufacturers have been incorporating a new technology for signal control on the electrical systems. The new multiplexed systems use changes in frequency not voltage to control and transmit commands. They can operate many devices at the same time over a single element wire. Connections and use of a test light can damage the bus electrical system on this type of electrical system.
INDICATION	One of the easiest ways to identify a multiplexed bus is the rows of LEDs in the electrical access panel. If in doubt verify with the certified professionals in the bus shop that the bus does not incorporate multiplex circuitry. If in doubt ask the certified professional serviceperson who maintains the bus. Do not guess, as use of a test light or some status line connections can damage the bus electrical system.
SOLUTION	Do Not make connections other than basic battery power, ground and ignition / accessory on known "safe" point, on any multiplexed bus unless you have specific documented "safe" connection points provided by the manufacturer of the bus. Connection of status event lines can damage the bus electrical system if done incorrectly. Only have systems installed on these new style buses by professionals trained on or certified to work on that type of bus.
NEED HELP	If you need more instructions call the bus manufacturer