

Exhibit J

QSI MATERIALS INCORPORATED INTO JMRI SOFTWARE

QSI Published Manual
 dated 16 February 2005, page 24
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Jacobsen
 Court Doc 237-31, Exhibit AD, page 2
 October 2008

CV#	CV Name	NMRA	QSI Supported
1	Primary Address	M	Y
2	V-Start	R	Y
3	Acceleration Rate	R	Y
4	Deceleration Rate	R	Y
5	V-High	O	Y
6	V-Mid	O	N
7	Manufacturer Version No.	M	Y
8	Manufacturer's ID	M	Y
9	Total PWM Period/28	O	N
10	EMF Feedback Cutoff/2	O	N
11	Packet Time-Out Value	R	Y
12	Power Source Conversion	O	N
13	Analog Mode Function Status	O	N
14	Reserved by NMRA for future use	-	-
15	Reserved by NMRA for future use	-	-
16	Reserved by NMRA for future use	-	-
17	Extended Address	O	Y
18	Extended Address	O	Y
19	Consist Address	O	Y


```

<variables>
<variable label="Primary Address" CV="1" comment="
item="Short Address" default="03">
</shortAddressVal/></variable>
<variable label="Vstart" CV="2" default="32"
tootip="QSI uses this only if speed
comment="A value of 255 corresponds to
<decVal/></variable>
<variable label="Acceleration Rate" CV="3" item="
<decVal max="31"/></variable>
<variable label="Deceleration Rate" CV="4" item="
<decVal max="31"/></variable>
<variable label="Max Volts" CV="5" item="VHigh"
tootip="range 2-255, 1 = not used">
<decVal min="1" max="255"/></variable>
<variable label="Manufacturer Version No." CV="7
item="DecVal" default="113"/></var
<variable label="Manufacturer ID" CV="8" readon
item="Manufacturer" default="113"><de
<variable label="Packet Time-out Value" CV="11">
<decVal/></variable>
<variable label="Extended Address" V="17" item="
<decVal/></variable>
<variable label="Consist Address" CV="19" mask=
<decVal/></variable>
    
```