

Exhibit X

QSI MATERIALS INCORPORATED INTO JMRI SOFTWARE

QSI Published Manual
 dated 16 February 2005, page 161
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Feature ID	Feature	Signal Type	Allowed States	Feature ID	Feature	Signal Type	Allowed States
0	Null Output		All	102	Directional Mars Light	LA Toggled	All
1	Whistle	LA Toggled	All	103	Mars Light	LA Toggled	All
3	Bell	LA Toggled	All	104	Strobe Mars Light	LA Toggled	All
5	Dynamic Brakes	LA, SD-Toggled	All	105	Number Board Lights	LA Toggled	All
8	Blower Hiss/Diesel Cooling Fans	LA Toggled	All	107	Directional Headlight + Directional Mars Light	LA Toggled	All
9	Long Air Let-off	TA Momentary	All	108	Directional Headlight + Directional Ditch Lights	LA Toggled	All
10	Short Air Let-off	TA Momentary	All	109	Directional Ditch Lights	LA Toggled	All
12	Pop-off	TA Momentary	NFF/NFR	110	Ditch Lights	LA Toggled	All
13	Blow Down	TA Momentary	NFF/NFR	111	Squealing Brakes	LA Toggled	All
14	Injector	TA Momentary	NFF/NFR	144	Start Up Lights	LA Toggled	All
64	Mute	LA, SD-Toggled	All	145	Shift Down	PA Momentary	NFF/NFR
65	Doppler Shift	TA Momentary	FWD/REV	176	Air Brakes	TA-SD Toggled	FWD/REV
96	Directional Headlight	LA Toggled	All	178	Status Report	TA Momentary	FWD/REV
97	Directional Reverse Light	LA Toggled	All	177	Cruise Control	TA-SD Toggled	FWD/REV
98	Headlight	LA Toggled	All	211	Coupler Effect	TA Enable and TA Momentary	All
99	Dim Headlight	LA Toggled	All	215	Squealing Brakes	TA Momentary	FWD/REV
100	Reverse Light	LA Toggled	All	216	Squealing Brakes + Air Brakes	TA Momentary	FWD/REV
101	Automatic Cab Lights	LA Toggled	All	217	Pumps	LA Toggled	NFF/NFR

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<ivariable label="Outout 10 - Forward/Reverse Only" CVname="53.10.0" CV="53"
default="64" comment="QSI" item="CV53.10.0">
<enumChoice choice="Dynamic Brakes" value="5"/>
<enumChoice choice="Long Air Let-off" value="9"/>
<enumChoice choice="Short Air Let-off"/>
<enumChoice choice="Mute" value="64"/>
<enumChoice choice="Doppler Shift"/>
<enumChoice choice="Headlight" value="98"/>
<enumChoice choice="Dim Headlight"/>
<enumChoice choice="Reverse Light"/>
<enumChoice choice="Automatic Cab Lights"/>
    
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<enumChoice choice="Directional Mars Light"/>
<enumChoice choice="Mars Light"/>
<enumChoice choice="Strobe Mars Light"/>
<enumChoice choice="Number Board Lights"/>
<enumChoice choice="Directional Headlight + Directional Mars Light" value="177"/>
<enumChoice choice="Directional Headlight + Directional Ditch Lights"/>
<enumChoice choice="Ditch Lights"/>
<enumChoice choice="Strobe Mars Light"/>
<enumChoice choice="Cruise Control" value="177"/>
<enumChoice choice="Scale mph Report and Status Report"/>
<enumChoice choice="Coupler Effect" value="211"/>
<enumChoice choice="Squealing Brakes" value="215"/>
    
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