

Exhibit AD

QSI MATERIALS INCORPORATED INTO JMRI SOFTWARE

QSI Published Manual
 dated 16 February 2005, page 161
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Jacobsen
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 October 2008

ID	Type	States	IB#	States	States	States	States
0	Null Output	All	102	All	All	All	All
1	Whistle	LA Toggled	103	All	LA Toggled	LA Toggled	All
3	Bell	LA Toggled	104	All	LA Toggled	LA Toggled	All
5	Dynamic Brakes	LA, SD, Toggled	105	All	LA Toggled	LA Toggled	All
8	Blower Hiss/Diesel Cooling Fans	LA Toggled	107	All	LA Toggled	LA Toggled	All
9	Long Air Let-off	TA Momentary	108	All	LA Toggled	LA Toggled	All
10	Short Air Let-off	TA Momentary	109	All	LA Toggled	LA Toggled	All
12	Pop-off	TA	110	NFF/NFR	LA Toggled	LA Toggled	All
13	Blow Down	TA	111	NFF/NFR	LA Toggled	LA Toggled	All
14	Injector	TA	144	NFF/NFR	Start Up	Start Up	NFF/NFR
64	Mute	LA, SD, Toggled	145	All	Shut Down	Shut Down	NFF/NFR
65	Doppler Shift	Momentary	176	FWD/REV	Air Brakes	Air Brakes	FWD/REV
96	Directional Headlight	LA Toggled	178	All	Status Report	Status Report	FWD/REV
97	Directional Reverse Light	LA Toggled	177	All	Cruise Control	Cruise Control	NFF/NFR
98	Headlight	LA Toggled	211	All	Coupler Effect	Coupler Effect	FWD/REV
99	Dim Headlight	LA Toggled	218	All	Squealing Brakes	Squealing Brakes	FWD/REV
100	Reverse Light	LA Toggled	216	All	Squealing Brakes + Air Brakes	Squealing Brakes + Air Brakes	FWD/REV
101	Automatic Cab Lights	LA Toggled	217	All	Pumps	Pumps	NFF/NFR

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