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## UNION PACIFIC 49er 4-6-2 SOUND UNIT INFORMATION

### BASIC PERFORMANCE:

The operation of the QSI-OEM sound module is simple and very straight forward. There is NO RESET state and there are NO RESET options to deal with. There is no uncoupler. The HORN / WHISTLE is sounded at any time by pressing a HORN button which is wired to apply positive DC to the track. The BELL is toggled on / off at any time by pressing a BELL button which is wired to apply negative DC to the track. The direction changes are controlled in the same manner as is standard in three rail (i.e. brief poser interruptions will advance the direction of the engine through NBF-F-NBR-R-NBF-F-etc.

NBF = Neutral Before Forward  
F = Forward  
NBR = Neutral Before Reverse  
R = Reverse

### DIRECT SYNCHRONIZATION:

At any time the direction can be synchronized (set) to NBF by turning the power off for 3 seconds and reapplying the track voltage. When the power has been off for 3 seconds a single bell will sound indicating that 3 seconds has elapsed and the engine will be in NBF when power is reapplied.

### ADDITIONAL SOUND EFFECTS:

In addition to the HORN and BELL the QSI - OEM sound system provides several appropriate engine sounds which depend on the engine type: