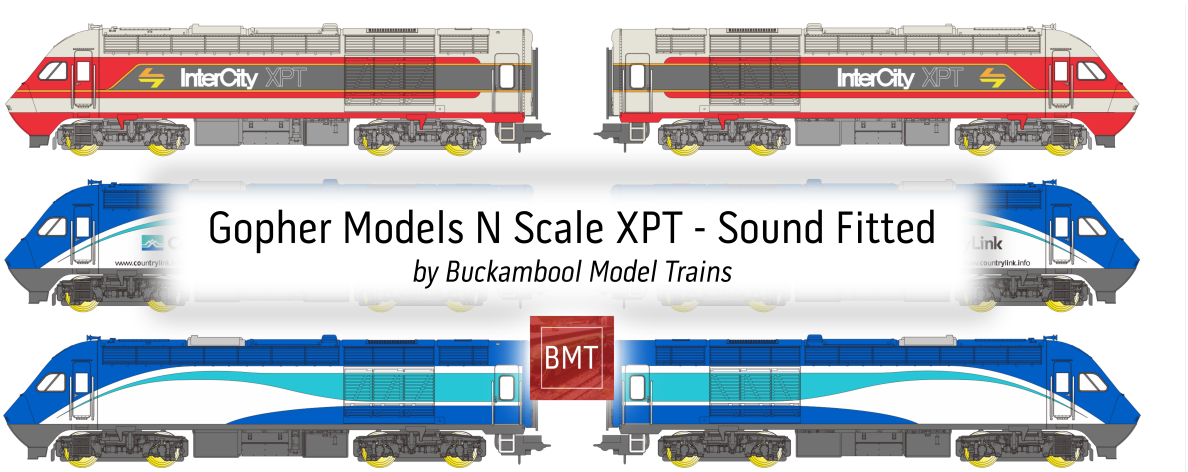

Function Button	Sound/Lighting Functions	Notes
F0	Directional lighting	Triple headlight on leading power car Red marker lights on trailing power car
F1	White marker lights	On leading power car only
F2	Town horn	Variable length
F3	Country horn	Variable length
F4	Ditch lights	On leading power car only
F5	Idle	Prime mover locks into notch 1 (min. RPM)
F6	Notch 5	Prime mover locks into notch 5 (max. RPM)
F7	Triple headlight low beam	
F8	Sound on/off	Sound is off by default
F9	Supply	Locks XPT power car into notch 2
F10	Departure sequence	Plays several sounds for a typical departure
F11	Guards whistle	
F12	Guards bell 1x	*Clear for departure*
F13	Platform departure announcement	
F14	“Thank you for travelling CountryLink”	
F15	Vigilance bell	*Checks the driver is still responsive*
F16	"Crew position for doors closing"	
F17	"Please arm the doors"	
F18	Guards bell 2x	*Stop immediately*
F19	Shunting mode	Momentum drastically reduced
F20	Park brake apply	Sound only
F21	Coupler crash	
F22	Passenger car door	
F23	Driver's door	
F24	Driver's foot pedal	
F25	Train crew radio chatter	*Problem with crew door signal*
F26	Driver conducting ICE Radio test	*Check that the train radio is functioning*
F27	Compressor	Will also play at random intervals
F28	Westinghouse brake valve	Sound only

Decoder Information

To reset CV settings back to the default values of the sound project, program CV8 = 8.

Your XPT is fitted with a ZIMO MS591N18 miniature Next18 sound decoder and a ZIMO MX689N18 function decoder. For more information on these decoders please visit the Buckambool Model Trains website to download a copy of the latest manuals.

By default your XPT has a large amount of momentum pre-programmed. If you wish to reduce it, reduce the values programmed to CV3 (acceleration) and CV4 (deceleration).

Volume Adjustments

Please note the table shows the default values programmed to each CV value. Increase their value to increase their volume, vice versa to decrease their volume.

<table>
<tr><th>Function Button</th><th>Volume adjustment (1-255)</th><th>Function Button</th><th>Volume adjustment (1-255)</th><th></th></tr>
<tr><td>F2</td><td>CV517 = 255</td><td>F22</td><td>CV680 = 255</td><td rowspan="5">WARNING!
Please take care adjusting volumes, increasing certain sounds too much may cause the speaker to distort or be damaged</td></tr>
<tr><td>F3</td><td>CV520 = 255</td><td>F23</td><td>CV683 = 255</td></tr>
<tr><td>F10</td><td>CV541 = 255</td><td>F24</td><td>CV686 = 255</td></tr>
<tr><td>F11</td><td>CV544 = 181</td><td>F27</td><td>CV695 = 255</td></tr>
<tr><td>F12</td><td>CV547 = 255</td><td>F28</td><td>CV698 = 255</td></tr>
<tr><td>F13</td><td>CV550 = 255</td><td colspan="2">Random sounds</td><td>Volume adjustment (1-255)</td></tr>
<tr><td>F14</td><td>CV553 = 128</td><td colspan="2">Z1 Compressor (standstill)</td><td>CV745 = 255</td></tr>
<tr><td>F15</td><td>CV556 = 255</td><td colspan="2">Z2 Compressor (while driving)</td><td>CV748 = 255</td></tr>
<tr><td>F16</td><td>CV559 = 255</td><td colspan="2">Z3 Air release x1</td><td>CV751 = 255</td></tr>
<tr><td>F17</td><td>CV562 = 255</td><td colspan="2">Z4 Air release x2</td><td>CV754 = 255</td></tr>
<tr><td>F18</td><td>CV565 = 255</td><td colspan="2" rowspan="3">Master volume</td><td>CV266 = 64 (1-64)</td></tr>
<tr><td>F20</td><td>CV674 = 255</td><td rowspan="2">values above 64 will cause the speaker to distort</td></tr>
<tr><td>F21</td><td>CV677 = 255</td></tr>
</table>

Vigilance feature

For an extra bit of fun, we have included a feature that will test your vigilance. By default we have disabled this feature, as it is quite complex and can disable operation of the train. To enable it, please program CV 837 to a value of 0.
Once enabled, you **must** start with your XPT at **standstill** with the sound turned on (F8). First press F15 (vigilance bell), then switch it off, then (within 10s), turn on F24 (driver's foot pedal) then switch it off. Once you have followed these steps, **start to drive your XPT** to begin the feature.
Once driving, every 60s the vigilance bell will start ringing. You have 10s to press F15 to stop the bell ringing and to prevent the XPT from performing an emergency stop - and yes, if you don't press F15, the XPT will actually stop! Pressing F15 releases the emergency stop.
To exit this feature, press F24 whenever the vigilance bell is not ringing. To determine if the feature is turned off press F15; if this activates the bell sound, then the feature is switched off. The complete process (other than setting the CV value) must be followed again to activate the feature. The reason we have made it fairly difficult to start up this feature is so that people don't inadvertently turn it on! We'd recommend setting CV 837 to a value of 8 to disable the feature once you're finished using it if you're concerned about accidentally re-activating it.

Contact Details

If you have any questions about this sound fitted XPT or have a warranty or repair concern, please don't hesitate to contact us:

bmodeltrains@gmail.com 0430 460 985 www.bmodeltrains.com.au