There are ambiguous descriptions for Sound Generator.
This RENESAS Technical update will mention the restriction and the workaround.

1. Description

Description on user’s manual will be updated as follows.

26.3.3 (1) Start of a new tone (Page 1599)

The note as below will be added to the end of the page.

NOTE
When different settings are continuously executed in the case of SGnCONF.SGnBE = 0, please wait for buffer update of current setting(<3>) before next setting. In order to wait for buffer update, please wait for more than half period of tone frequency after SGnPWM setting(<2>). If volume is off by setting SGnPWM = 0, its update can be confirmed by reading SGnSTAT.SGnRUN = 0. After SGnSTAT.SGnRUN = 0, new setting is updated after writing SGnPWM.

26.4.2 Start sound (Page 1617)

The below description in red will be modified.

- If SGnCTL.SGnEN = 1 the sound generation will start immediately when writing to the SGnPWM register.

26.4.3 (1) Stop sound by the application program (Page 1617)

The below description in red will be modified.

The sound is stopped with the next edge of the tone signal, when 000H is written to volume register SGnPWM, regardless of the setting of the SGnCONF.SGnBE bit.
When stopping the sound, SGnSTAT.SGnRUN bit sets to 1.
26.5.2 (1) SGnCTL – Control register (Page 1620)
The below description in red will be modified.

If SGnCTL.SGnEN is set to '0' while sound generation is ongoing, the sound will be stopped immediately with the next edge of the PCLK clock. No synchronization to the sound signal takes place.

26.5.2 (5) SGnPWM – Volume register (Page 1624)
The below description in red will be modified.

3. The sound stops immediately with the next edge of the tone signal when this register is cleared.

2. Workaround
Wait the next edge of the tone signal before setting the new sound, when SGnCONF.SGnBE = 0 or restarting the sound.

3. Judgement flow

<table>
<thead>
<tr>
<th>#</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Is setting the new sound done before the next edge of the tone signal? Or is setting the new sound before stopping the sound?</td>
</tr>
</tbody>
</table>