

# Exhibit 1


**U.S. Patent No. 8,860,337 (“’337 Patent”)**


**Accused Instrumentalities**

Nintendo products supporting “HD Rumble” technology, including without limitation the Nintendo Switch (“Accused Products”), infringe at least Claim 2 of the ’337 Patent. Each Accused Product infringes the claims in substantially the same way, and the evidence shown in this chart is similarly applicable to each Accused Product.

**Claim 2**

Claim 2	Accused Products
<p>[2pre]. A linear vibration module comprising:</p>	<p>To the extent the preamble is limiting, each Accused Product includes or constitutes a linear vibration module.</p> <p>For example, the Switch comprises a module capable of linear vibration, as described in connection with the claim limitations below. For another example, the Switch comprises a pair of handheld controllers, each of which is capable of linear vibration, as described in the claim limitations below.</p> <p><i>See, e.g.:</i></p>  <p><a href="https://www.nintendo.co.jp/corporate/release/en/2017/170113.html">https://www.nintendo.co.jp/corporate/release/en/2017/170113.html</a></p>

Claim 2	Accused Products
	 <p data-bbox="669 597 1841 966"><b>The Joy-Con (L) and Joy-Con (R) controllers can be detached from the system for a variety of unprecedented playstyles.</b> They can be attached to the Joy-Con grip to be used as a single controller, or held separately in each hand and controlled freely using the motion control features in both the Joy-Con (L) and Joy-Con (R). You can give one to another player to enjoy shared play together, or you can attach both of them to the system and play while viewing the system screen in handheld mode. Choose the playstyle that fits your play location, the game content, and your own preferences. In addition to the features of past game controllers, <b>the Joy-Con controllers have incredible expressive power</b> due to new features such as the IR Motion Camera that can sense the distance, shape, and motion of nearby objects, and the HD rumble feature that can convey detailed tactile sensations, such as the feeling of ice cubes tumbling against each other in a glass.</p> <p data-bbox="632 992 1493 1024"><a href="https://www.nintendo.co.jp/corporate/release/en/2017/170113.html">https://www.nintendo.co.jp/corporate/release/en/2017/170113.html</a></p>

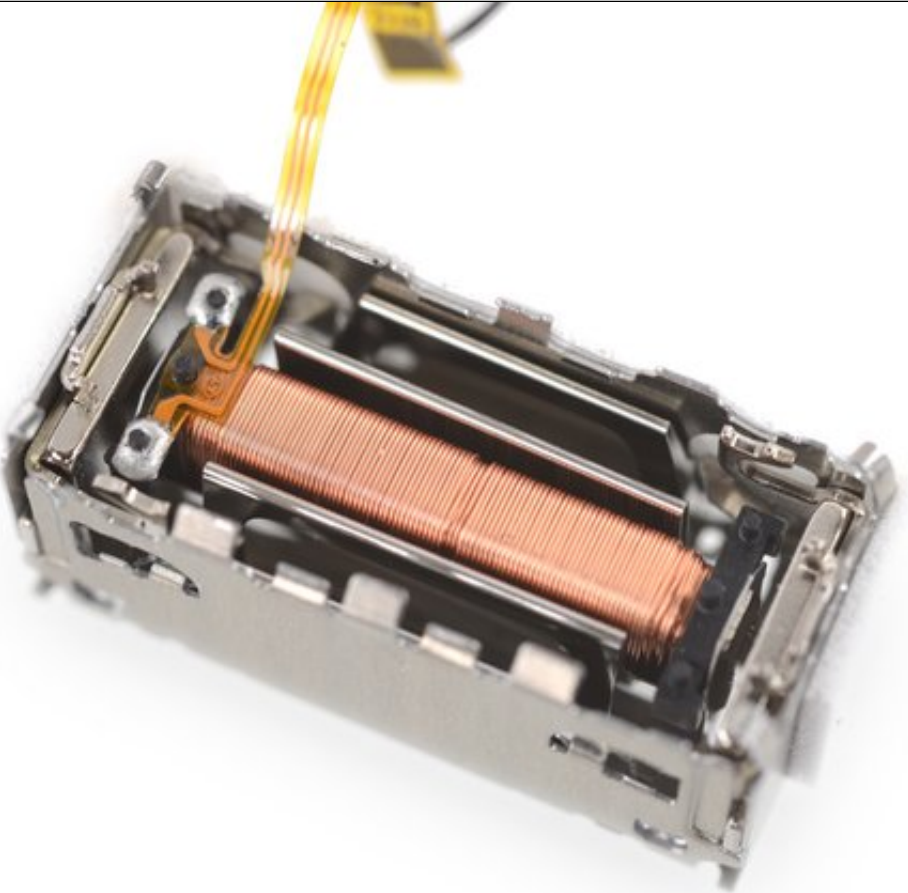
Claim 2	Accused Products
	 <p data-bbox="632 1031 1533 1063"><a href="https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263">https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263</a></p>
<p data-bbox="205 1091 399 1123">[2a] a housing;</p>	<p data-bbox="632 1091 1197 1123">Each Accused Product comprises a housing.</p> <p data-bbox="632 1149 1837 1218">For example, the Switch handheld controller comprises a linear resonant actuator housing that contains the moveable component.</p> <p data-bbox="632 1243 919 1276"><i>See limitations below.</i></p> <p data-bbox="632 1302 814 1334"><i>See also, e.g.:</i></p>

Claim 2

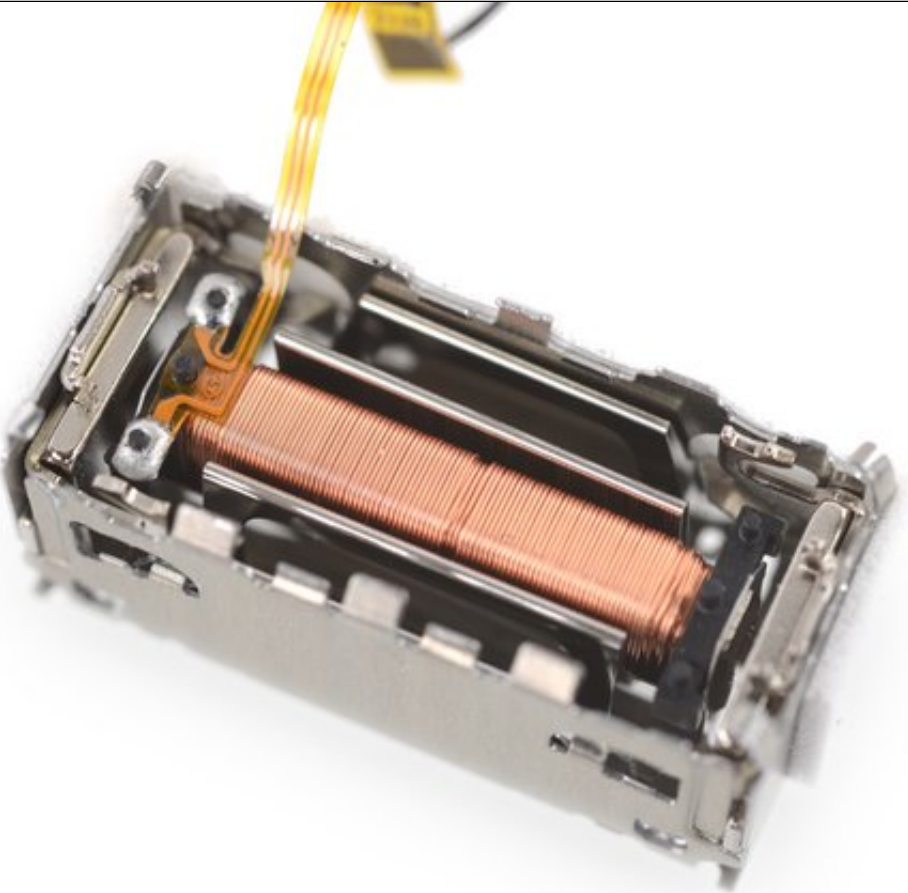
Accused Products



Photograph of Switch handheld controller showing LRA at left  
(<https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263>).

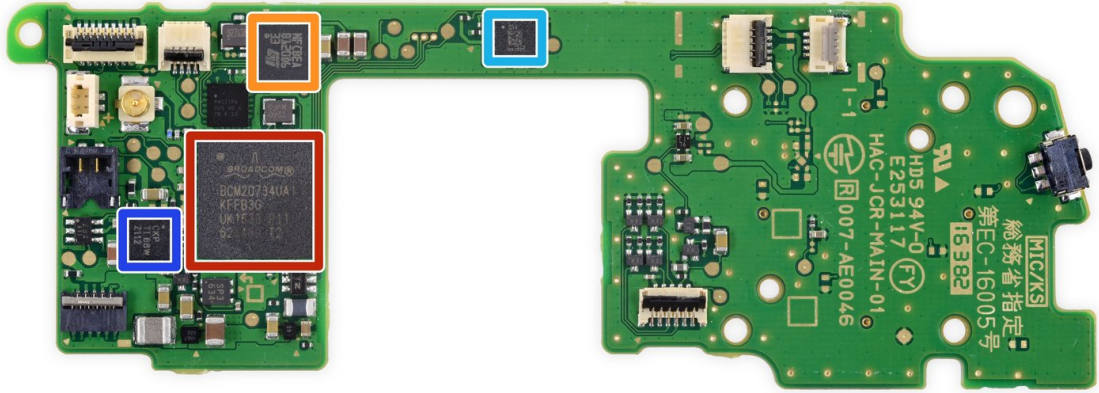
Claim 2	Accused Products
	 <p data-bbox="632 1203 1556 1276">Photograph of internals of Switch LRA (<a href="https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263">https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263</a>)</p>
[2b] a moveable component;	Each Accused Product comprises a moveable component.

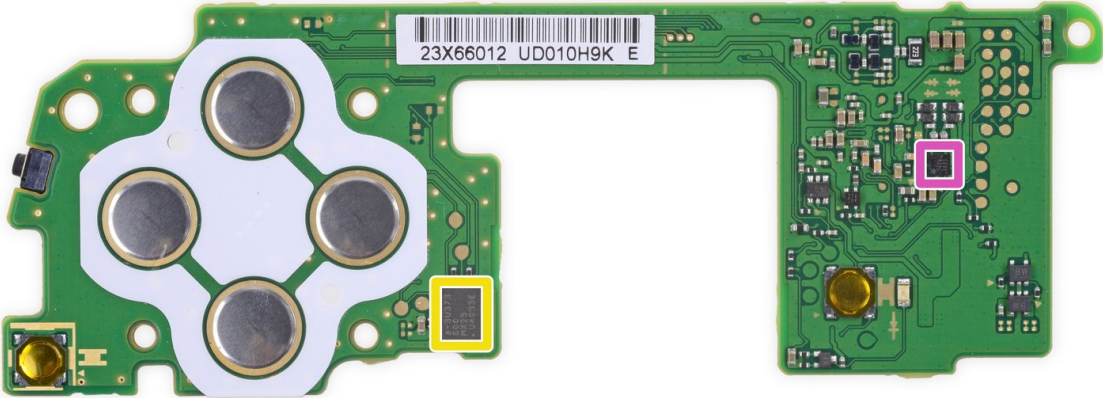
Claim 2	Accused Products
	<p>For example, the linear motor in the Switch handheld controller includes a movable component comprising permanent magnet(s) and a mass.</p> <p><i>See, e.g.:</i></p>


Claim 2	Accused Products
	 <p data-bbox="634 1205 1556 1279">Photograph of internals of Switch LRA showing moveable component (<a href="https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263">https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263</a>)</p>
[2c] a power supply;	Each Accused Product comprises a power supply.



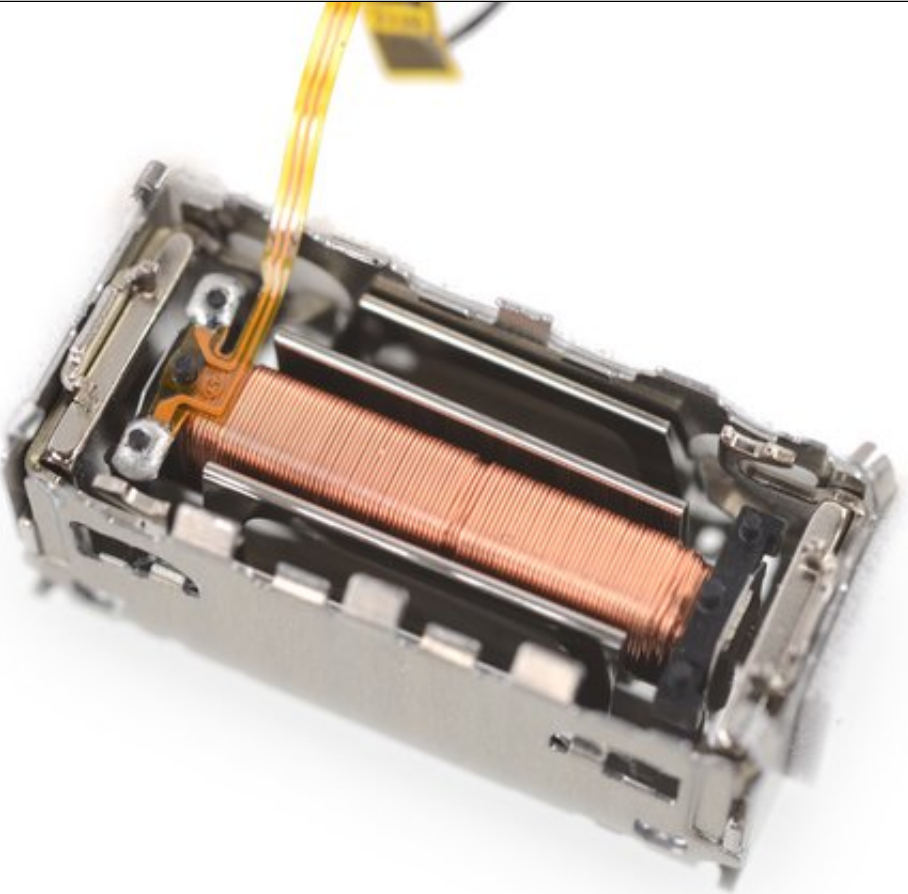
Claim 2	Accused Products
	<p>For example, the linear motor coil driver (described below) in the handheld controller of the Switch receives power from a battery, a USB connection, one or more voltage regulators on or near the Accused Product's system board, and one or more amplifier or haptic control ICs.</p> <p><i>See, e.g.:</i></p>

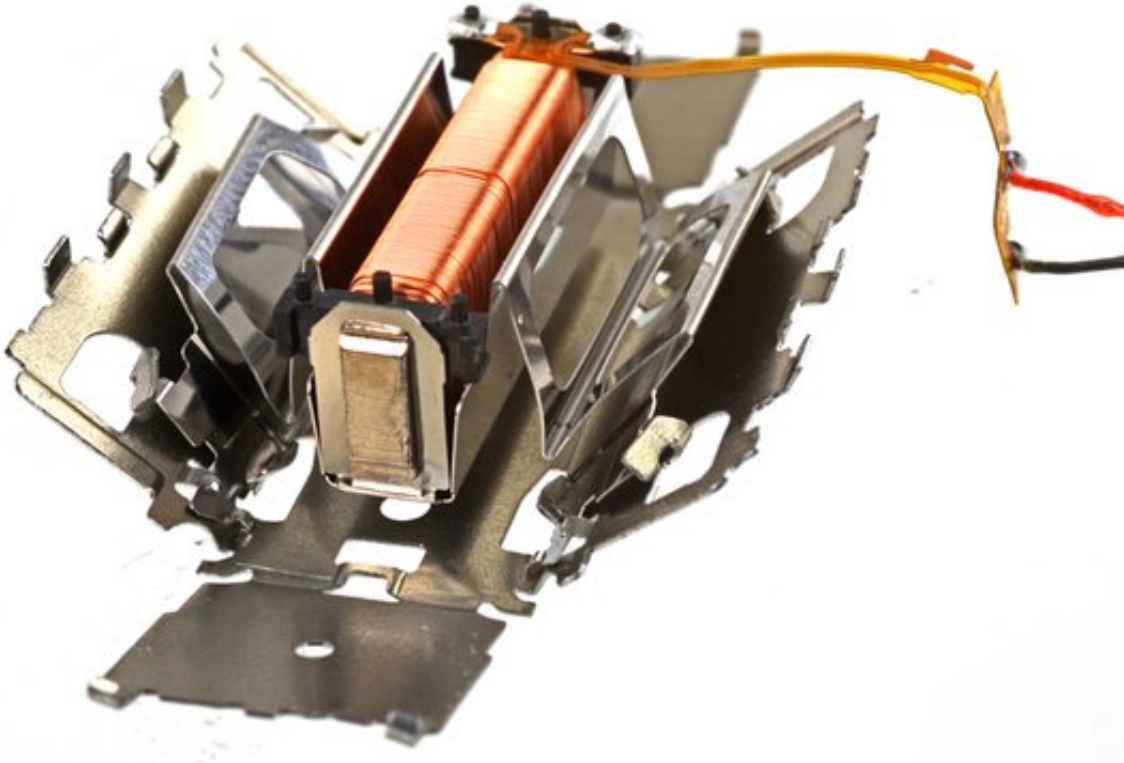
Claim 2	Accused Products
	 <p data-bbox="632 1203 1808 1279">Photograph of Switch handheld controller system board, with power supply and control ICs highlighted (<a href="https://guide-images.cdn.ifixit.com/igi/NYPdejcKUDMhLnLr.huge">https://guide-images.cdn.ifixit.com/igi/NYPdejcKUDMhLnLr.huge</a>)</p>

Claim 2	Accused Products
	 <p data-bbox="632 1203 1881 1276">Photograph of Switch handheld controller system board, with class-D audio amplifier highlighted in magenta at right (<a href="https://guide-images.cdn.ifixit.com/igi/hwXfQaAA2FH1RLkl.huge">https://guide-images.cdn.ifixit.com/igi/hwXfQaAA2FH1RLkl.huge</a>)</p> <p data-bbox="632 1300 1033 1333"><i>See also claim elements below.</i></p>

Claim 2	Accused Products
<p>[2d] user-input features;</p>	<p>Each Accused Product comprises user-input features.                      For example, the handheld controller of the Switch comprises buttons, a joystick, and a trigger.  <i>See, e.g.:</i></p>  <p><a href="https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263">https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263</a></p>
<p>[2e] a driving component that drives the moveable component in each of two</p>	<p>Each Accused Product includes a driving component that drives the moveable component to oscillate within the housing.</p>

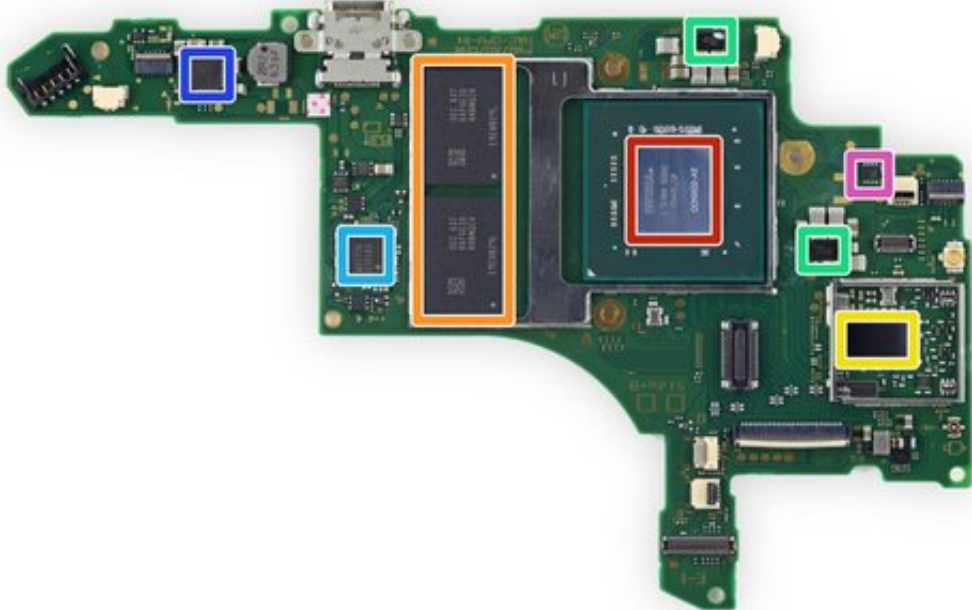
Claim 2	Accused Products
opposite directions within the housing; and	For example, the linear motor in the Switch includes one or more coils to form electromagnetic fields for driving the moveable component in two directions.  <i>See, e.g.:</i>

Claim 2	Accused Products
	 <p data-bbox="630 1201 1554 1274">Photograph of internals of Switch LRA with driving component (<a href="https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263">https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263</a>)</p>

Claim 2	Accused Products
	 <p data-bbox="632 1242 1556 1312">Photograph of internals of Switch LRA with driving component (<a href="https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263">https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263</a>)</p>

Claim 2	Accused Products
<p>[2f] a control component that controls supply of power from the power supply to the driving component to cause the moveable component to oscillate at a frequency and an amplitude specified by user input received from the user-input features,</p>	<p>Each Accused Product comprises a control component that controls supply of power from the power supply to the driving component to cause the moveable component to oscillate at a frequency and an amplitude specified by one or more stored values.</p> <p>For example, the Switch includes a Tegra X1-based SoC that instructs the power supply in the handheld controller to provide power to the driving component to drive the moveable component to oscillate at a frequency and amplitude specified by user input received from the user-input features. For another example, the handheld controller of the Switch includes one or more integrated circuits that control the supply of power to the driving component to drive the moveable component to oscillate at a frequency and amplitude specified by user input received from the user-input features.</p> <p>Although Nintendo’s APIs are proprietary and confidential, published reverse-engineering efforts by third parties show that the Switch is configured to communicate specific frequencies and amplitudes to the handheld controller over a serial and/or Bluetooth connection. These frequencies and amplitudes are specified by user input received from the user-input features.</p> <p><i>See claim limitations above.</i></p> <p><i>See also, e.g.:</i></p>



Claim 2	Accused Products
	 <p data-bbox="632 1203 1556 1279">Photograph of Switch SoC, highlighted in red (<a href="https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263">https://www.ifixit.com/Teardown/Nintendo+Switch+Teardown/78263</a>)</p>

Claim 2	Accused Products
	<div data-bbox="709 532 1801 922" data-label="Image"> <p>A photograph of a green printed circuit board (PCB) for a Switch handheld controller system. The board is irregularly shaped with several cutouts and mounting holes. It features various electronic components, including a large central microcontroller unit (MCU) labeled 'BCM20734UA1 KFFB3G', several smaller integrated circuits (ICs), capacitors, and connectors. Four specific ICs are highlighted with colored boxes: a large red box around the central MCU, a blue box around a smaller IC to its left, an orange box around a small IC above it, and another blue box around a small IC to the right. Printed text on the board includes 'HDS 94V-0', 'E253117', 'HAC-JCR-MAIN-01', 'R 007-AE0046', '1-1', 'MIC/KIS', '総務省指定', and '第EC-16005号'. There is also a small circular logo with 'FY' inside.</p> </div> <p data-bbox="632 1203 1801 1279">Photograph of Switch handheld controller system board, with power supply and control ICs highlighted (<a href="https://guide-images.cdn.ifixit.com/igi/NYPdejcKUDMhLnLr.huge">https://guide-images.cdn.ifixit.com/igi/NYPdejcKUDMhLnLr.huge</a>)</p>

Claim 2	Accused Products
	<p data-bbox="667 284 1222 324">🔗 <b>Bluetooth HID Information</b></p> <hr/> <p data-bbox="699 386 926 418"><b>Output reports</b></p> <hr/> <p data-bbox="699 467 884 500"><b>OUTPUT 0x01</b></p> <p data-bbox="699 527 968 552">Rumble and subcommand.</p> <p data-bbox="699 581 1619 605">The OUTPUT 1 report is how all normal subcommands are sent. It also includes rumble data.</p> <p data-bbox="699 638 1136 662">Sample C code for sending a subcommand:</p> <pre data-bbox="720 690 1818 901"> uint8_t buf[0x40]; bzero(buf, 0x40); buf[0] = 1; // 0x10 for rumble only buf[1] = GlobalPacketNumber; // Increment by 1 for each packet sent. It loops in 0x0 - 0xF range. memcpy(buf + 2, rumbleData, 8); buf[10] = subcommandID; memcpy(buf + 11, subcommandData, subcommandDataLen); hid_write(handle, buf, 0x40); </pre> <p data-bbox="699 950 1797 974">You can send rumble data and subcommand with <code>x01</code> command, otherwise only rumble with <code>x10</code> command.</p> <p data-bbox="699 1006 961 1031">See "Rumble data" below.</p> <p data-bbox="632 1060 1892 1125"> <a href="https://github.com/dekuNukem/Nintendo_Switch_Reverse_Engineering/blob/ac8093c84194b3232acb675ac1acce9bcb456a3/bluetooth_hid_notes.md">https://github.com/dekuNukem/Nintendo_Switch_Reverse_Engineering/blob/ac8093c84194b3232acb675ac1acce9bcb456a3/bluetooth_hid_notes.md</a> </p>

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	<p><b>Rumble data</b></p> <p>A timing byte, then 4 bytes of rumble data for left Joy-Con, followed by 4 bytes for right Joy-Con. [00 01 40 40 00 01 40 40] (320Hz 0.0f 160Hz 0.0f) is neutral. The rumble data structure contains 2 bytes High Band data, 2 byte Low Band data. The values for HF Band frequency and LF amplitude are encoded.</p> <table border="1" data-bbox="667 477 1885 1084"> <thead> <tr> <th data-bbox="667 477 793 537">Byte #</th> <th data-bbox="793 477 1230 537">Range</th> <th data-bbox="1230 477 1885 537">Remarks</th> </tr> </thead> <tbody> <tr> <td data-bbox="667 537 793 634">0, 4</td> <td data-bbox="793 537 1230 634">x04 - xFC (81.75Hz - 313.14Hz)</td> <td data-bbox="1230 537 1885 634">High Band Lower Frequency. Steps +0x0004 .</td> </tr> <tr> <td data-bbox="667 634 793 732">0-1, 4-5</td> <td data-bbox="793 634 1230 732">x00 01 - xFC 01 (320.00Hz - 1252.57Hz)</td> <td data-bbox="1230 634 1885 732">Byte 1, 5 LSB enables High Band Higher Frequency. Steps +0x0400 .</td> </tr> <tr> <td data-bbox="667 732 793 829">1, 5</td> <td data-bbox="793 732 1230 829">x00 00 - xC8 00 (0.0f - 1.0f)</td> <td data-bbox="1230 732 1885 829">High Band Amplitude. Steps +0x0200 . Real max: FE .</td> </tr> <tr> <td data-bbox="667 829 793 927">2, 6</td> <td data-bbox="793 829 1230 927">x01 - x7F (40.87Hz - 626.28Hz)</td> <td data-bbox="1230 829 1885 927">Low Band Frequency.</td> </tr> <tr> <td data-bbox="667 927 793 992">3, 7</td> <td data-bbox="793 927 1230 992">x40 - x72 (0.0f - 1.0f)</td> <td data-bbox="1230 927 1885 992">Low Band Amplitude. Safe max: 00 72 .</td> </tr> <tr> <td data-bbox="667 992 793 1084">2-3, 6-7</td> <td data-bbox="793 992 1230 1084">x80 40 - x80 71 (0.01f - 0.98f)</td> <td data-bbox="1230 992 1885 1084">Byte 2, 6 +0x80 enables intermediate LF amplitude. Real max: 80 FF .</td> </tr> </tbody> </table> <p data-bbox="632 1110 1896 1179"><a href="https://github.com/dekuNukem/Nintendo_Switch_Reverse_Engineering/blob/ac8093c84194b3232acb675ac1accce9bcb456a3/bluetooth_hid_notes.md">https://github.com/dekuNukem/Nintendo_Switch_Reverse_Engineering/blob/ac8093c84194b3232acb675ac1accce9bcb456a3/bluetooth_hid_notes.md</a></p>		Byte #	Range	Remarks	0, 4	x04 - xFC (81.75Hz - 313.14Hz)	High Band Lower Frequency. Steps +0x0004 .	0-1, 4-5	x00 01 - xFC 01 (320.00Hz - 1252.57Hz)	Byte 1, 5 LSB enables High Band Higher Frequency. Steps +0x0400 .	1, 5	x00 00 - xC8 00 (0.0f - 1.0f)	High Band Amplitude. Steps +0x0200 . Real max: FE .	2, 6	x01 - x7F (40.87Hz - 626.28Hz)	Low Band Frequency.	3, 7	x40 - x72 (0.0f - 1.0f)	Low Band Amplitude. Safe max: 00 72 .	2-3, 6-7	x80 40 - x80 71 (0.01f - 0.98f)	Byte 2, 6 +0x80 enables intermediate LF amplitude. Real max: 80 FF .
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Claim 2	Accused Products
	<p>The high frequency and low amplitude are encoded and must always add the "control" byte to the HA/LF byte. An example is the following:</p> <pre data-bbox="661 373 1885 808"> //Left linear actuator uint16_t hf = 0x01a8; //Set H.Frequency uint8_t hf_amp = 0x88; //Set H.Frequency amplitude //Byte swapping byte[0] = hf &amp; 0xFF; byte[1] = hf_amp + ((hf &gt;&gt; 8) &amp; 0xFF); //Add amp + 1st byte of frequency to amplitude  uint8_t lf = 0x63; //Set L.Frequency uint16_t lf_amp = 0x804d; //Set L.Frequency amplitude //Byte swapping byte[2] = lf + ((lf_amp &gt;&gt; 8) &amp; 0xFF); //Add freq + 1st byte of LF amplitude to the f byte[3] = lf_amp &amp; 0xFF; </pre> <p><a href="https://github.com/dekuNukem/Nintendo_Switch_Reverse_Engineering/blob/ac8093c84194b3232acb675ac1acce9bcb456a3/rumble_data_table.md">https://github.com/dekuNukem/Nintendo_Switch_Reverse_Engineering/blob/ac8093c84194b3232acb675ac1acce9bcb456a3/rumble_data_table.md</a></p>
<p>[2g] wherein the control component drives simultaneous oscillation of the moveable component at two or more frequencies to generate complex vibration modes.</p>	<p>In the Accused Products, the control component drives simultaneous oscillation of the moveable component at two or more frequencies to generate complex vibration modes.</p> <p>For example, the Switch is configured to create “HD Rumble” effects. Although Nintendo’s APIs are proprietary and confidential, published reverse-engineering efforts by third parties show that the Switch is configured to communicate two specific, simultaneous frequencies to the handheld controller. The controller responds to these commands by simultaneously oscillating at two frequencies, generating complex vibration modes.</p> <p><i>See, e.g.:</i></p>

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