

5.0 - TRX Switches

TRx SWITCHES

Motion Concepts offers numerous specialty electronics that are designed to enhance and/or optimize the performance of our power positioning systems. The following section identifies several key specialty boxes and cables and electronics that are available.



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TRx Switches (Normal vs. Auto-Reversing Mode)

TRx Push Buttons and Toggles can be set up to operate in “Normal” or “Auto-Reversing” mode.

- i) **Normal Mode:** two *switches* are required for each function, one for each direction.
- ii) **Auto-Reversing Mode:** only one *switch* is required for each function. In this mode, pressing the switch once will activate the function; releasing the switch, waiting for two seconds and then pressing it again, will cause the reverse direction of this function to occur.

Tables A. and B. below show a comparison of Normal Mode vs. Auto-Reversing Mode when using a toggle and/or a push button to control the tilt function of a power positioning system.

Table A. - Using a <u>single toggle</u> to control the tilt function:	
Normal Mode	Pulling the toggle back will cause the seat to tilt back. Pushing the toggle forward will cause the seat to tilt forward.
Auto-Reversing Mode	Pushing the toggle forward will cause the seat to tilt back. Releasing the toggle to its rest position, waiting for two seconds, and pushing it forward again, will cause the seat to tilt forward. <i>(This set-up allows the rearward (pulled back) toggle direction to be used for a separate power positioning function (e.g. Recline))</i>

Table B. - Using a <u>dual push button</u> to control the tilt function:	
Normal Mode	Pushing the first button will cause the seat to tilt back. Pushing the second button will cause the seat to tilt forward.
Auto-Reversing Mode	Pushing the first button will cause the seat to tilt back. Releasing the button (rest position), waiting for two seconds, and pushing the same button again, will cause the seat to tilt forward. <i>(This set-up allows the second push button to be used for a separate power positioning function (e.g. Recline))</i>

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TRx Switch Types

<p>Push Button Switches (w/ slotted mounts)</p> <p>The push button switches come in singles, and sets of two and four. To activate the function simply hold the button down. The motion will stop when the button is released. Two buttons are required for each function in "Normal" mode, and one button is required for each function in "Auto-Reversing" mode. (replaces S21, S22P/ S22D, S24). New slide rails and mounting plate (not shown) allow for secure mounting in multiple positions on the switch mounting bar (see TRx parts Manual drawings TRC0575 and TRC0576).</p>	<p>S31</p> <p>S32-P* & S32-D*</p> <p>slide rail (x2)</p> <p>S34</p> <p>switch mounting bar</p>
<p>Single Toggle (w/ DLO indicator)</p> <p>This type of toggle switch is capable of operating one function in "Normal" mode and two functions in "Auto-Reversing" mode. Requires control box with DB9-pin port.</p>	<p>S-19</p>
<p>Dual Toggle (w/ DLO indicator)</p> <p>This type of switch is capable of operating two functions in "Normal" mode and four functions in "Auto-Reversing" mode. Requires DB9-pin port. (replaces the M38)</p>	<p>S38</p>
<p>Four-Way Toggle (w/ DLO indicator)</p> <p>This type of switch is capable of operating two functions in "Normal" and four functions in "Auto-Reversing" mode. Requires DB9-pin port. (replaces the M26)</p>	<p>S-26</p>
<p>Eight-Way Toggle (w/ DLO & 'home position' indicators)</p> <p>This type of switch is capable of operating four functions in "Normal" and eight functions in "Auto-Reversing" mode.</p>	<p>S-18</p>
<p>Heavy Duty Toggle</p> <p>This type of switch is capable of operating one function in "Normal" mode.</p>	<p>S37-P* & S37-D*</p>

*Note: P = 1/8" phono connector; D = DB9-pin connector