IntuiSwitch-H™ compatibility of DCC decoders for controlling turnouts.

The IntuiSwitch-H™ is a special version IntuiSwitch controller designed to work in conjunction with DCC decoders to allow combined manual and remote turnout control. This only works if the DCC decoder supports manual inputs, and is either using a stall motor switch machine, or provides separate status outputs when driving other types of switch machines.

This application note summarizes DCC decoder compatibility with IntuiSwitch-H™ controllers, and includes tips on special decoder settings that may be necessary for specific brands and models when connecting IntuiSwitch-H™ controllers to them. Information is based on data sheets and application information obtained from decoder manufacturer web sites. While we believe it to be correct, we can't guarantee the accuracy of decoder manufacturers' documentation, nor that their product designs will remain unchanged. Feel free to contact us (info@intuiswitch.com) if you have specific questions.

Manufacturer	Model	# of turnouts	Actuator type	Manual control	IntuiSwitch-H™ Compatible?
DCC Specialties	Hare	1	Tortoise™	Yes	Yes
DCC Specialties	Wabbit	2	Tortoise™	Yes	Yes You must set CV71 on the Wabbit to 1 when using the IntuiSwitch-H™. This enables the single pushbutton control mode. Wire IntuiSwitch controller indicators in series with the turnout motor.
Digitrax	DS44	4	Stall only	No	No
Digitrax	DS51 K1	1	Kato bipolar	No	No
Digitrax	DS52	2	2 stall or 2 bipolar or 3wire solenoid	No	No
Digitrax	DS54	4	4 stall or 4 bipolar or 3wire solenoid	Yes Toggle-able	Yes, w/ stall motors only. Contact us for CV settings and wiring.
Digitrax	DS64	4	4 stall or 4 bipolar or 3wire solenoid	Yes Toggle-able	Yes, with stall motors only. Set option switches: Opt 1 -> closed 　　　(stall mode) Opt 13 -> closed 　　　(enable local inputs) Opt 12 > thrown 　　　(S inputs toggle output) Hook IntuiSwitch-H button to S input, and indicator wires in series with the stall motor.

Manufacturer	Model	# of turnouts	Actuator type	Manual control	IntuiSwitch-H™ Compatible?
NCE	Switch-It	2	2 stall only	Yes	Yes (Rev C or higher) For Switch-It Rev C: Set Switch It CV548=1 if using an IntuiSwitch-H with SWA. Set Switch It CV549=1 if using an IntuiSwitch-H with SWB. Hook IntuiSwitch-H button to input 1 for SWA or input 4 for SWB. Hook IntuiSwitch indicator wires in series with the stall motor. Set CV556=0 to disable pushbutton lockout.
NCE	Switch-It Mk2	2	2 stall only	Yes	Set Switch-It CV548=1 if using an IntuiSwitches with the Switch-It. Hook IntuiSwitch-H button to input 1N and C for SWA, 2R and C for for SWB. Hook IntuiSwitch indicator wires in series with the stall motor(s). Set CV556=0 to disable pushbutton lockout.
NCE	Switch-Kat	1	Kato, LGB, or Tortoise	Yes (needs two buttons)	No
NCE	Switch 8	8	8 stall only	No	No
NCE	Switch-8 Mk2	8	8 stall only	Yes, but only with optional button board (NCE part 524-152)	Yes, with optional NCE button board. Set Switch-8 Mk2 CV548=1 Hook IntuiSwitch-H button leads between N inputs of button board and ground terminal of button board.Hook IntuiSwitch indicator wires in series with the stall motor(s). Set CV556=0 to disable pushbutton lockout.
NCE	Snap-It	1	Dual coil switch machine (3 wire)	Yes	No.