

Brant B. Project – Detailed View (v1)

By Bill Weis

Requirements:

1. Be able to use voice commands to control the Invacare bed

Solution – High Level:

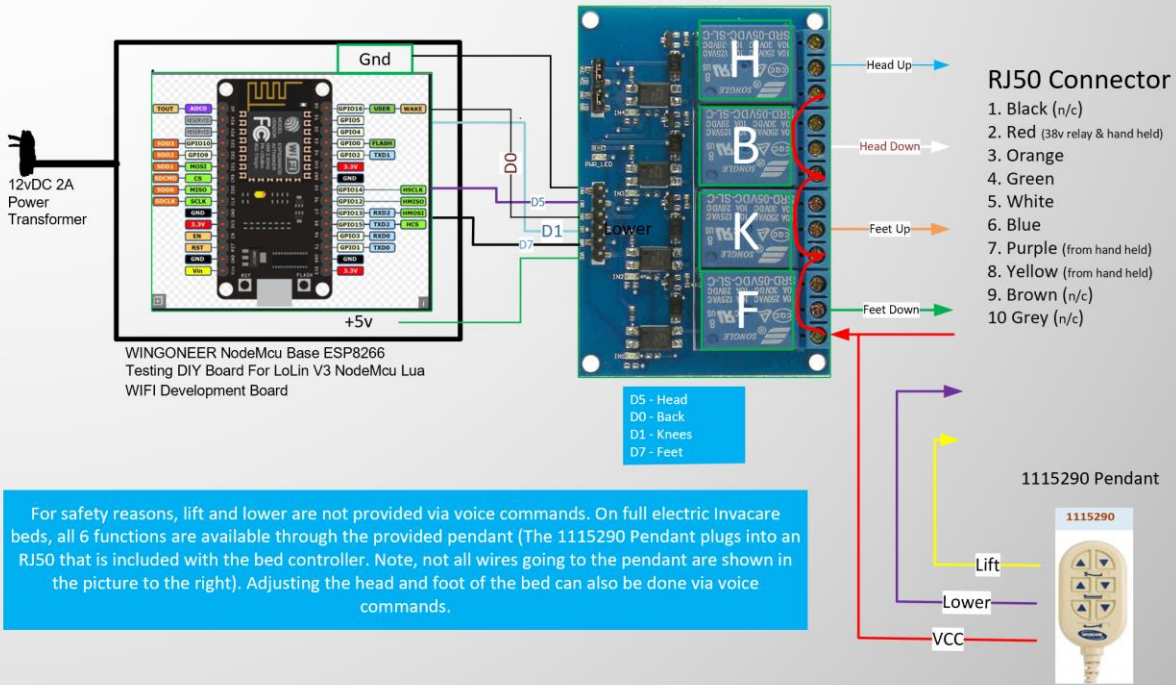
1. We designed a solution which allows Brant to control the Invacare bed by voice

Details of the Solution

1. **Voice Control his bed** – Brant has a full electric Invacare bed with hand pendant 1115290. We provided Brant with several voice commands that run for different durations to move the head/foot end of the bed up/down. For safety reasons we do not provide voice commands of lift and lower (aka Hi Lo features). The Hi Lo feature is generally used by the caregiver and we provide a manual means of controlling Hi Lo. Since this Invacare model uses simple contact closure in the pendant for all 6 functions, we are able to provide a connection on our voice activated controller that allows Brant to plug in their existing hand pendant which provides full manual control of the bed should wifi/internet go down.

The voice activated bed controller design can be found on the next page.

Voice Controlled Bed Controller for Brant, mechanical relays to drive the Invacare Full Electric bed, manual control for Lift and Lower
Bill Weis 8-24-2021
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For safety reasons, lift and lower are not provided via voice commands. On full electric Invacare beds, all 6 functions are available through the provided pendant (The 1115290 Pendant plugs into an RJ50 that is included with the bed controller. Note, not all wires going to the pendant are shown in the picture to the right). Adjusting the head and foot of the bed can also be done via voice commands.