

Roger Loewen – ALS
Details by Bill Weis

Requirements:

1. Be able to voice control his Sleep Number bed

Solution – High Level:

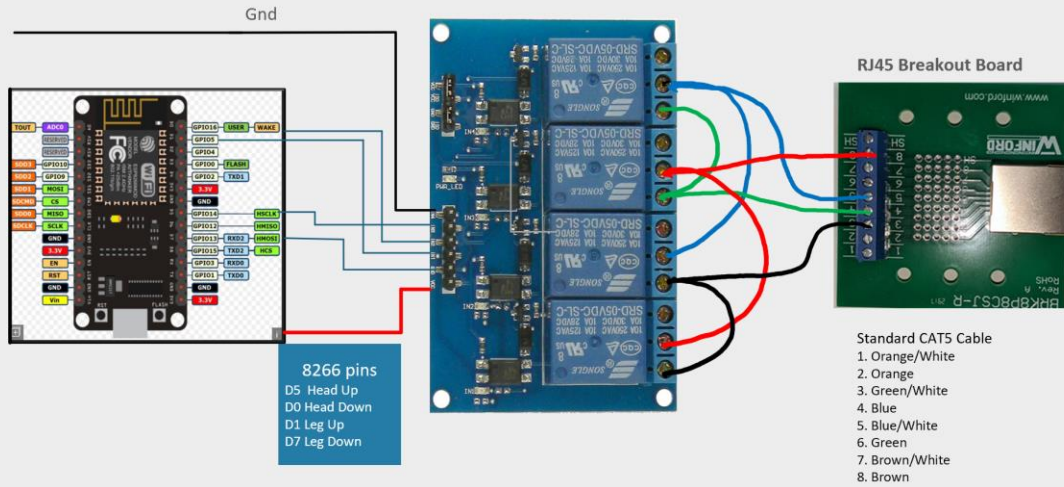
1. Collaborated with Linak-US to swap out existing control box and linear actuator with replacement parts that would allow our bed controller to control the bed using voice commands.

Details of the Solution

1 – Voice Control his bed – Roger wanted to be able to use voice commands to raise and lower the head of his Sleep Number Bed. Sleep Number uses Leggett and Platt as their base which is BTLE (Bluetooth Low Energy) controlled. In Roger’s case he only purchased a base with a linear actuator for the head end of the bed. He has thoughts of wanting to add an actuator for the foot end of the bed and has been in contact with Sleep Number to investigate the possibility. Our solution takes into account the fact the base may get modified to accommodate an actuator for the foot end.

The real success of this project is thanks to Brian and his colleagues at Linak-US. We have a history of working together on other similar projects and they were awesome to work with once again. We would have had a very difficult time interfacing with the original control box in the Leggett and Platt base, so Linak-US donated the necessary parts so our voice activated bed controller could control the Sleep Number bed. If in the future Roger adds the ability to control the foot end of the bed, our controller will already be ready to go.

Roger Loewen – Sleep Number bed, Leggett and Platt BTLE Controlled Base (Actuator and Control board swap out)
 Bill Weis 4/13/21 S/N 21095.04



A custom CBD6S replaced the original controller
 A standard ethernet cable was used for the connection from the voice activated bed controller to the bed.
 RJ45 pin 3 - Green/White - Black Wire on RJ45 Breakout board
 RJ45 pin 4 - Blue - Green Wire on RJ45 Breakout board
 RJ45 pin 5 - Blue/White - Blue Wire on RJ45 Breakout board
 RJ45 pin 8 - Brown - Red wire on RJ45 Breakout board

Position	Direction	Wire Connection	Wire Connection
Head	Up	pin 5	pin 4
Head	Down	pin 8	pin 4
Foot	Up	pin 5	pin 3
Foot	Down	pin 8	pin 3

Resources

[Amazon Echo](#)

[Alexa Support](#) (Contact Support via the Amazon Alexa app - can have them call your number)

Alexa Fire TV Cube support numbers

888-280-2073

888-375-9365