

Melanie S. Project – Detailed view (v1)

By Bill Weis

Requirements:

1. Be able to voice control her Pride Mobility PLR-3955 lift chair/recliner

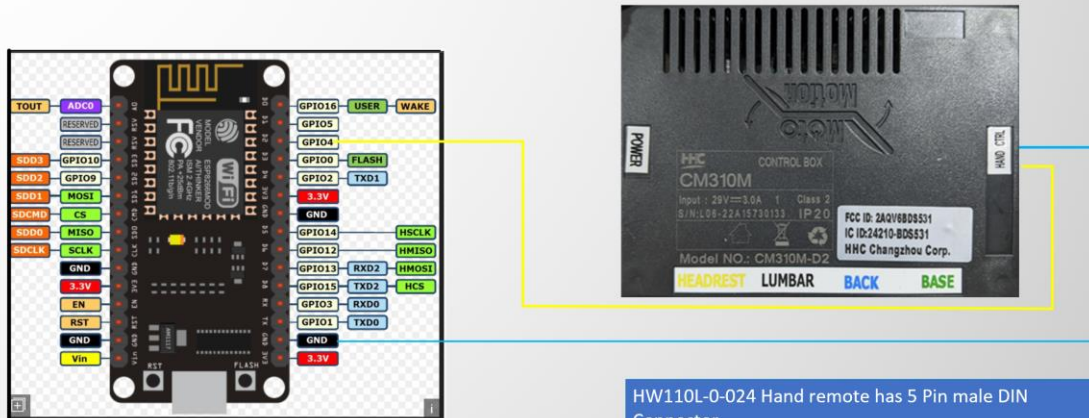
Solution – High Level:

1. We provided a voice solution for the Pride Mobility PLR-3955

1. Be able to control her Pride Mobility PLR-3955 using Voice commands – We provided a voice solution for her model PL2935 that allows Melanie to control all the desired features using voice commands.

Here is a schematic of the bed controller design

Melanie S. Recliner Project
 Pride VivaLift Tranquility PLR3955 V2 Model
 Hand Controller HW110K
 S/N 23122.06 4-22-24



This is the 5 pin DIN male connector



Using a 15030HC-G harness

- Pin 1 - Orange
- Pin 2 - Yellow
- Pin 3 - Green
- Pin 4 - Blue
- Pin 5 - Black

HW110L-0-024 Hand remote has 5 Pin male DIN Connector

Pin #	Purpose
1. Red	LEDs for each button on remote
2. Yellow	Did not tear the remote apart, output signal to here +5v
3. Green	Ground
4. White	Ground
5. Blue	Did not tear the remote apart to check

Control box harness (Actuator Control Pins)

Pin #	Purpose
1. -20v	LEDs for each button on remote
2. n/c	Did not tear the remote apart, output signal to here +5v
3. -25v	(ie Inflate lumbar=30vdc, deflate lumbar=-30vdc)
4. output	Did not tear the remote apart to check
5. Gnd	Did not tear the remote apart to check

For our solution, we only needed to connect our controller to the recliner using DIN connector pin 4 for a common ground and pin 2 so we can provide the digital signal to the chair. Our control box replaces the hand remote. The control box in the chair is a HHC Moto Motion CM310 L06-20201670028