

A

A

B

B

C

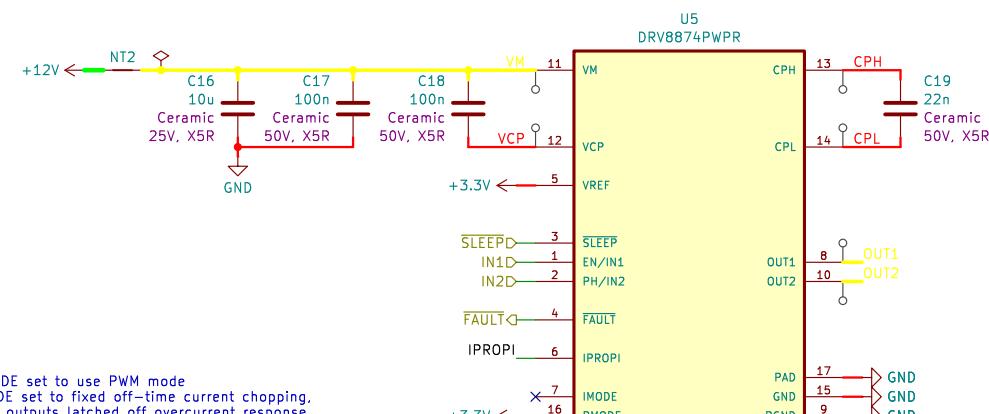
C

D

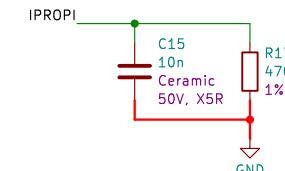
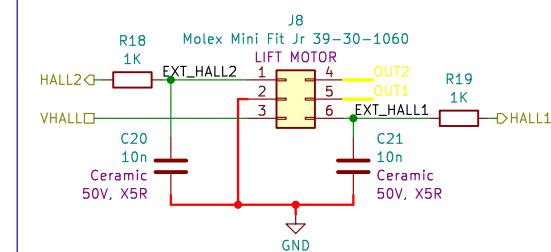
D

**BED PLATFORM LIFT MOTOR DRIVER**

Designed for 12 V DC motor load up to 3 A (6 A peak)

**CURRENT LIMIT**

Set overcurrent protection trip current  
 $I_{trip} (A) = 450 * V_{ref} (V) / R_{prop} (\Omega)$   
Given  $V_{ref} = 3.3 \text{ V}$ ,  $R_{prop} = 470 \Omega$ ,  $I_{trip} = 3.16 \text{ A}$

**CONNECTOR FOR PA-09 LINEAR ACTUATOR****Brown Studios LLC**

Sheet: /lift1/  
File: lift.kicad\_sch

**Title: Bed Lift Controller**

Size: A4 Date: 2025-10  
KiCad E.D.A. 9.0.5

Rev: v0.2.1  
Id: 2/7

A

A

B

B

C

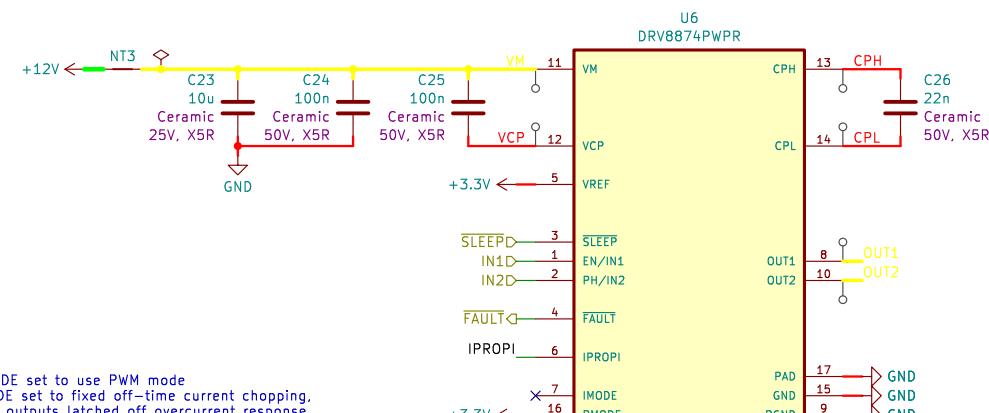
C

D

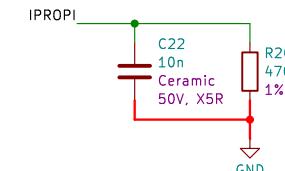
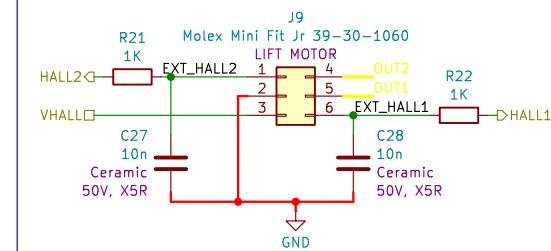
D

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**CONNECTOR FOR PA-09 LINEAR ACTUATOR****Brown Studios LLC**Sheet: /lift2/  
File: lift.kicad\_sch**Title: Bed Lift Controller**Size: A4 Date: 2025-10  
KiCad E.D.A. 9.0.5Rev: v0.2.1  
Id: 3/7

A

A

B

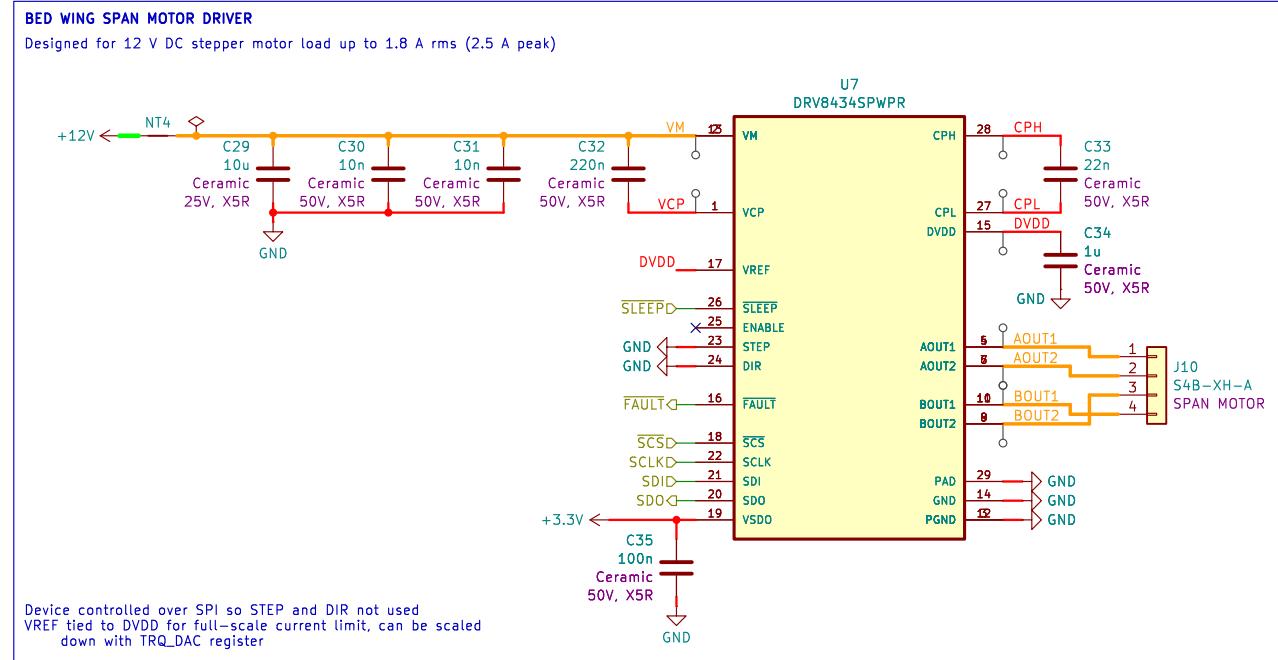
B

C

C

D

D



Brown Studios LLC

Sheet: /span1/  
File: span.kicad\_sch**Title: Bed Lift Controller**Size: A4 Date: 2025-10  
KiCad E.D.A. 9.0.5Rev: v0.2  
Id: 4/7

A

A

B

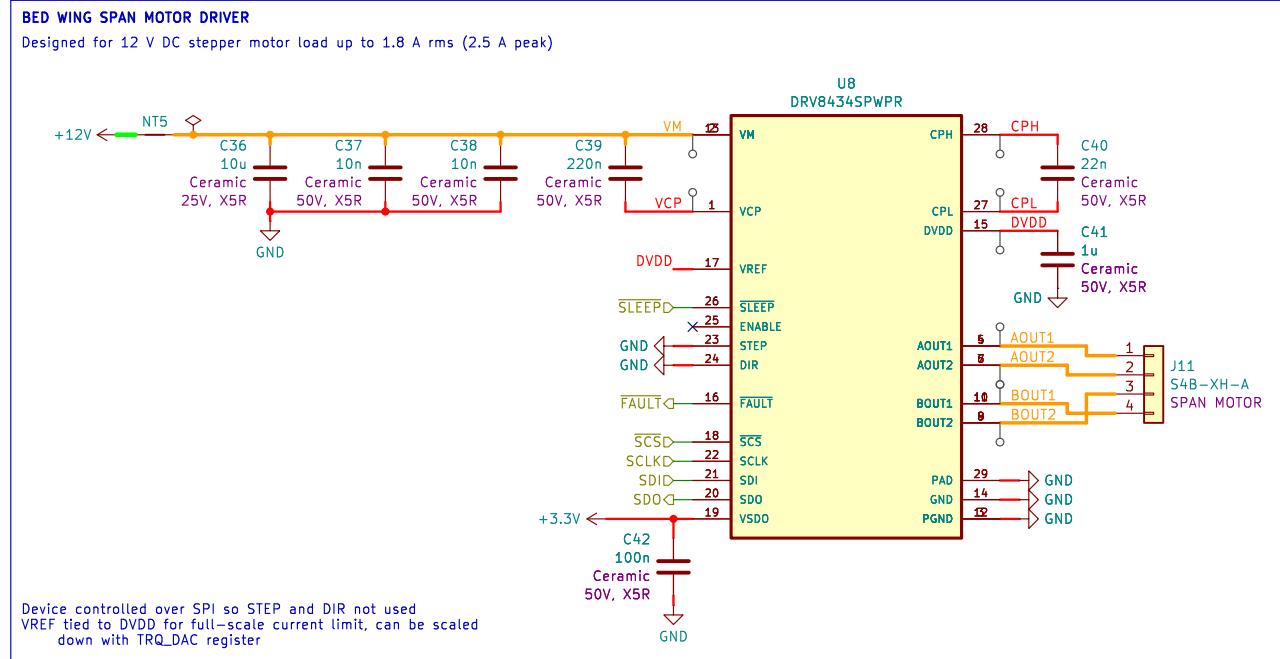
B

C

C

D

D



Brown Studios LLC

Sheet: /span2/  
File: span.kicad\_sch

**Title: Bed Lift Controller**

Size: A4	Date: 2025-10
KiCad E.D.A. 9.0.5	

Rev: v0.2
Id: 5/7

A

A

B

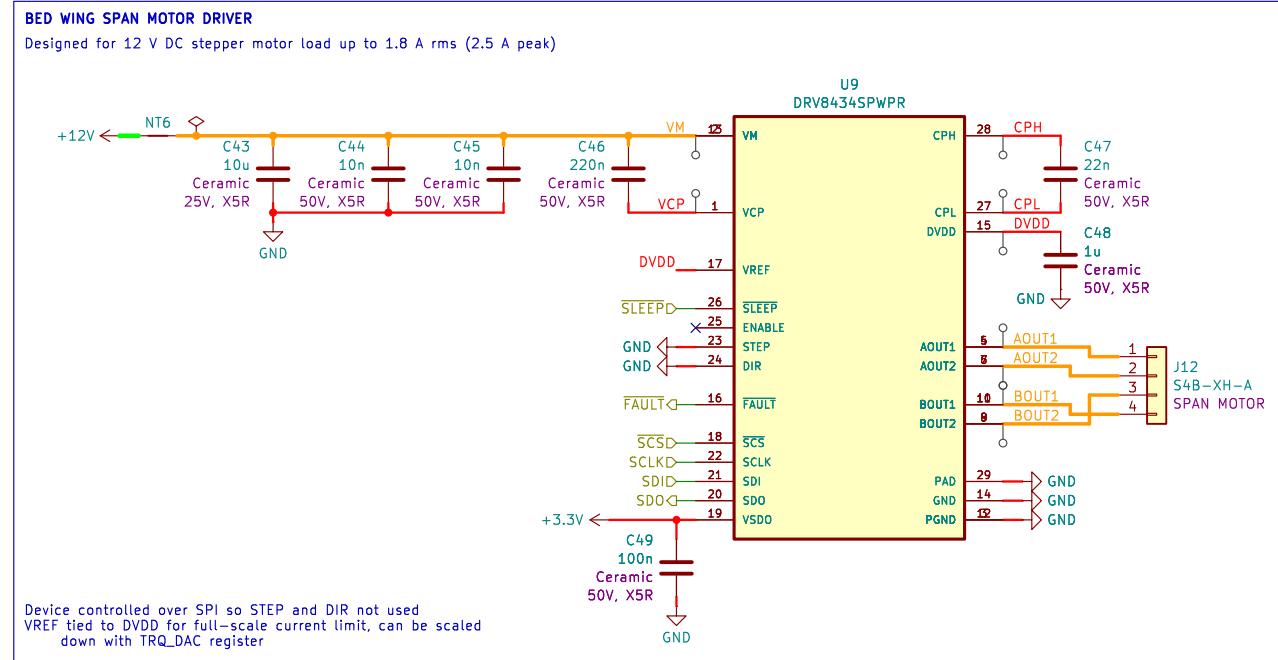
B

C

C

D

D



Brown Studios LLC

Sheet: /span3/  
File: span.kicad\_sch**Title: Bed Lift Controller**Size: A4 Date: 2025-10  
KiCad E.D.A. 9.0.5Rev: v0.2  
Id: 6/7

A

A

B

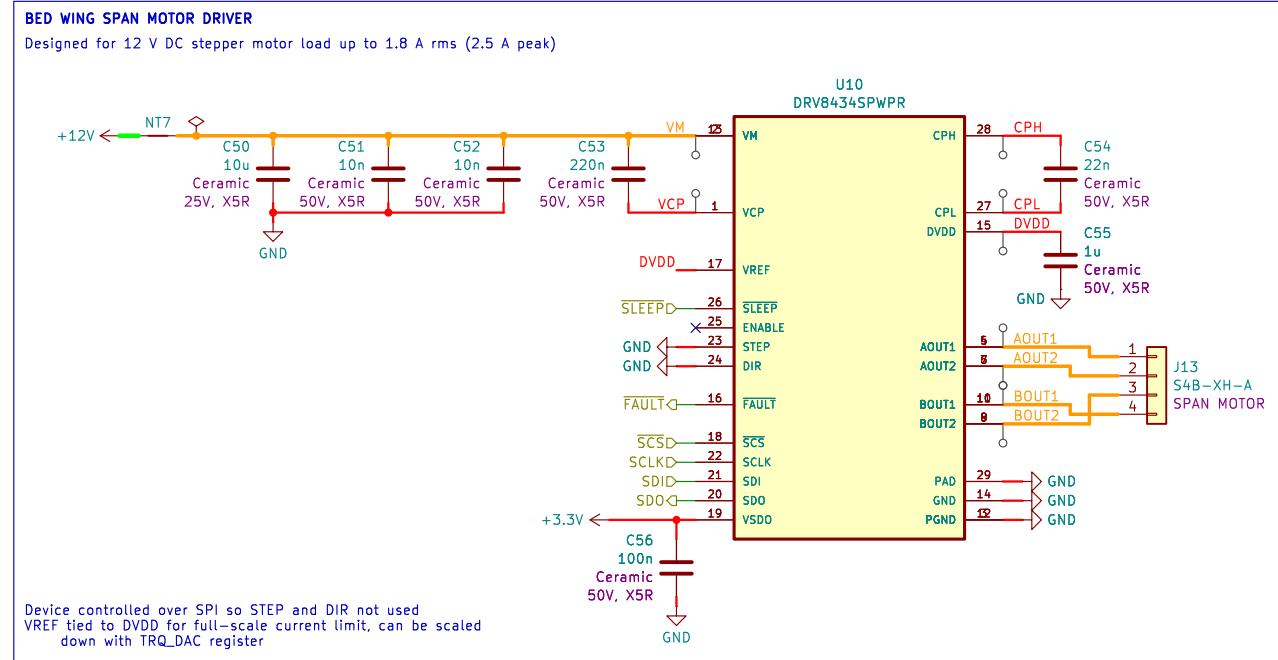
B

C

C

D

D



Brown Studios LLC

Sheet: /span4/  
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KiCad E.D.A. 9.0.5Rev: v0.2  
Id: 7/7