# BRUNEL HAND 2.0

Assembly Guide

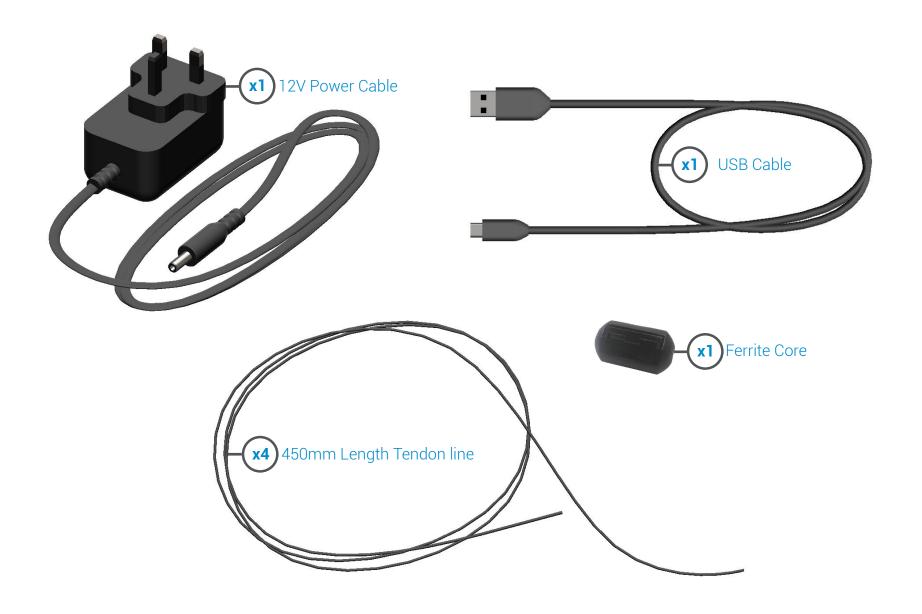


#### Toolbox - You will need



# Brunel Kit List M2x16mm C/S M2x10mm C/S === M2x8mm C/S M2x5mm C/S M2x5mm **x1** M1.4x5mm C/H **=** M3 Brass Insert M2 Brass Insert 3x10mm Extension Spring C Conical Spring WW PQ12 Motor Cap Winged Bolt PQ12 Motor (x1)**Key:** C/H - Cap Head | C/S - Countersunk 3

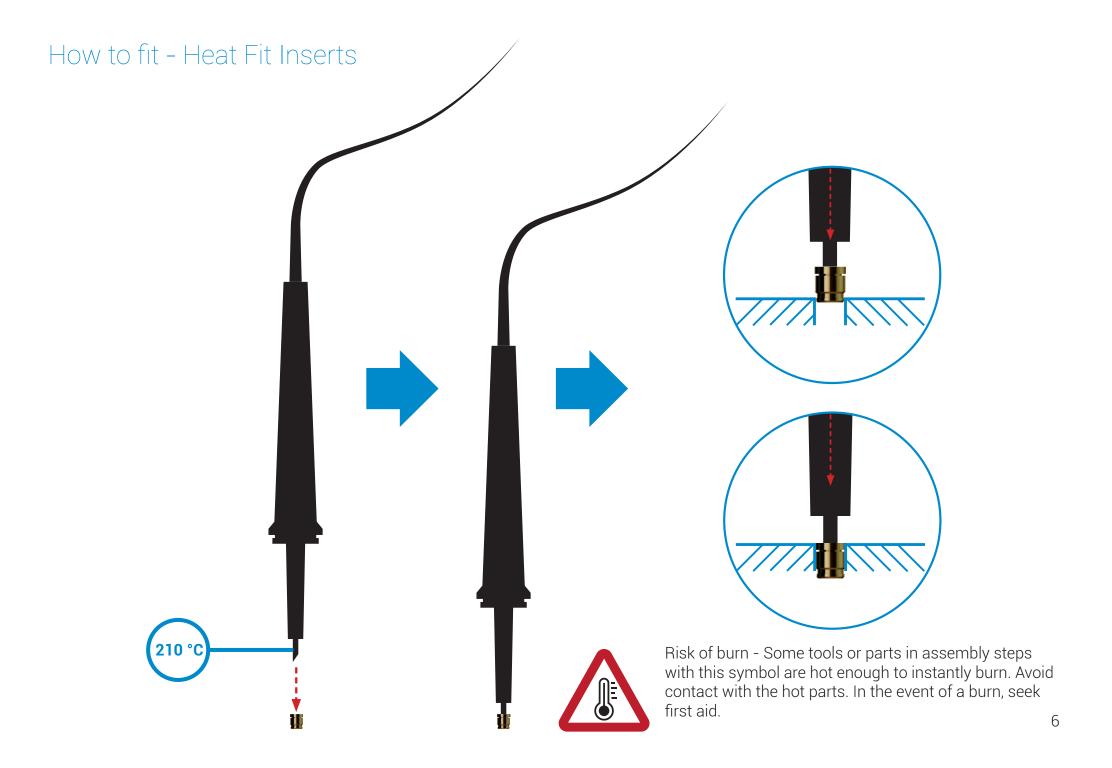
#### Brunel Kit List

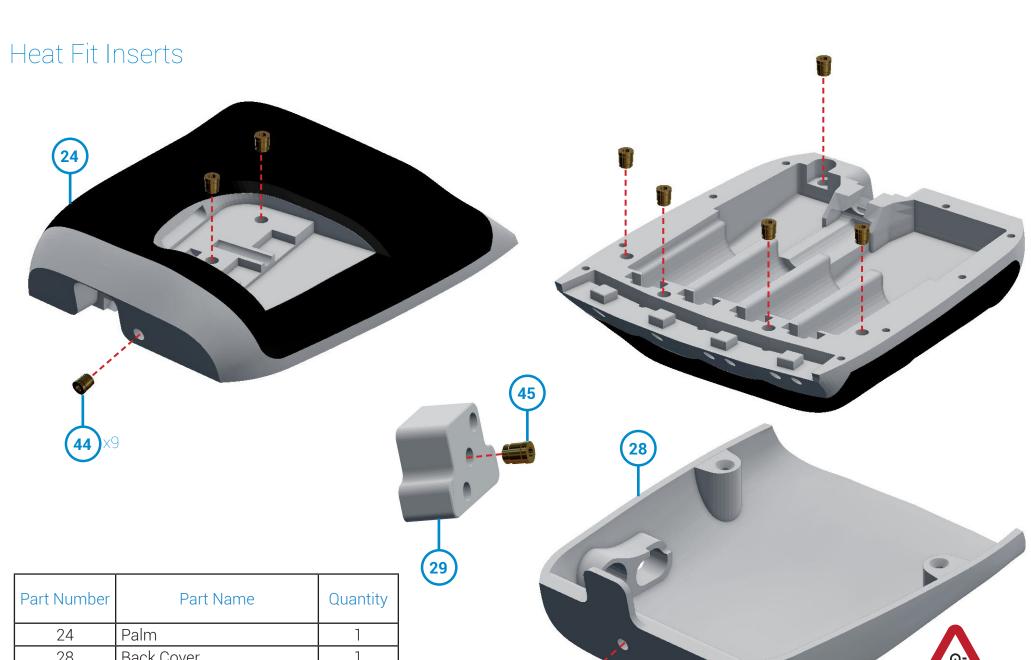


#### Parts List

	T	1
Part Number	Part Name	Quantity
1	1st Finger Distal	1
2	1st Finger Proximal	1
3	1st Finger Distal Top Cover	1
4	1st Finger Proximal Top Cover	1
5	2nd Finger Distal	1
6	2nd Finger Proximal	1
7	2nd Finger Distal Top Cover	1
8	2nd Finger Proximal Top Cover	1
9	3rd Finger Distal	1
10	3rd Finger Proximal	1
11	3rd Finger Distal Top Cover	1
12	3rd Finger Proximal Top Cover	1
13	4th Finger Distal	1
14	4th Finger Proximal	1
15	4th Finger Distal Top Cover	1
16	4th Finger Proximal Top Cover	1
17	Finger Ligament	1
18	Finger Ligament Cover	1
19	Thumb	1
20	Thumb Top Cover	1
21	Thumb Ligament Clamp	1
22	Thumb Ligament	1
23	Thumb Ligament Cover	1
24	Palm	1
25	Motor Cover	1
26	Motor Caps	3

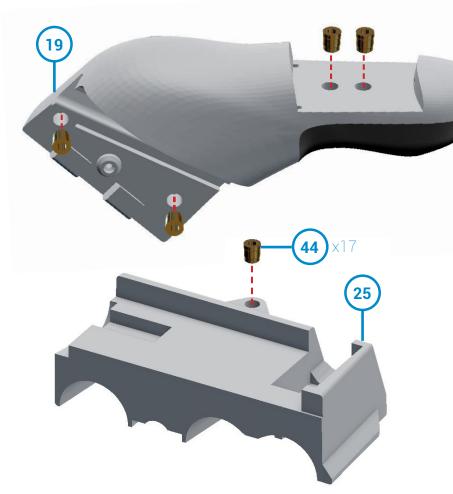
Part Number	Part Name	Quantity
27	Cable Tidy	1
28	Back Cover	1
29	Stand Connector Block	1
30	Stand	1
31	Stand Grip Band	1
32	PQ12 Motors	4
33	Conical Springs	3
34	AC2305 Extension Springs	9
35	Chestnut PCB	1
36	3x10mm Dowel Pins	11
37	M2x5mm Torx Countersunk Screws	2
38	M2x8mm Torx Countersunk Screws	2
39	M2x10mm Torx Countersunk Screws	15
40	M2x16mm Torx Countersunk Screws	6
41	M1.4x5mm Cap Head Screws	10
42	M2x5mm Slot Pan Machine Screw	5
43	M3x10mm Winged Screw	1
44	M2 Brass Heatfit Inserts	26
45	M3 Brass Heatfit Inserts	1
46	Black Velvet Tendon 450mm	4
47	12V Power Cable	1
48	Mircro USB Cable	1
49	VitaFlex 30 Urethane	1
50	Ferrite Core	1



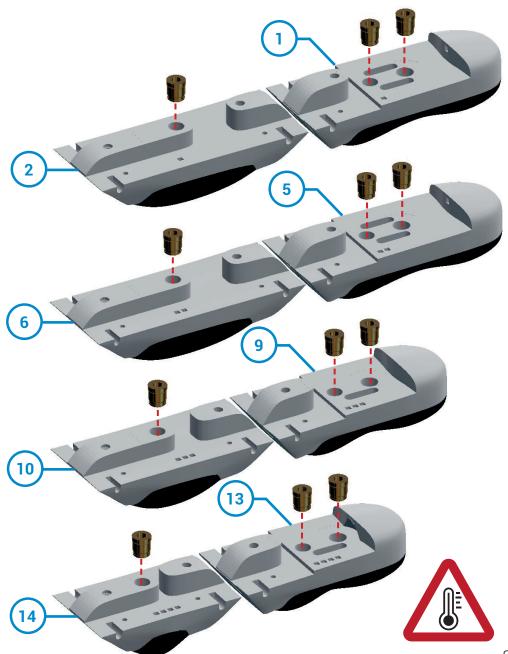


Part Number	Part Name	Quantity
24	Palm	1
28	Back Cover	1
29	Stand Connector Block	1
44	M2 Brass Heatfit Inserts	9
45	M3 Brass Heatfit Inserts	1

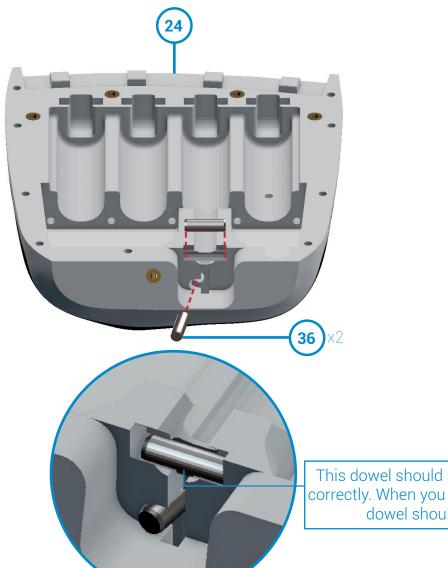
#### Heat Fit Inserts



Part Number	Part Name	Quantity
2, 6, 10, 14	Fingers (Proximals)	4
1, 5, 9, 13,	Fingers (Distals)	4
19	Thumb	1
25	Motor Cover	1
44	M2 Brass Heatfit Inserts	17



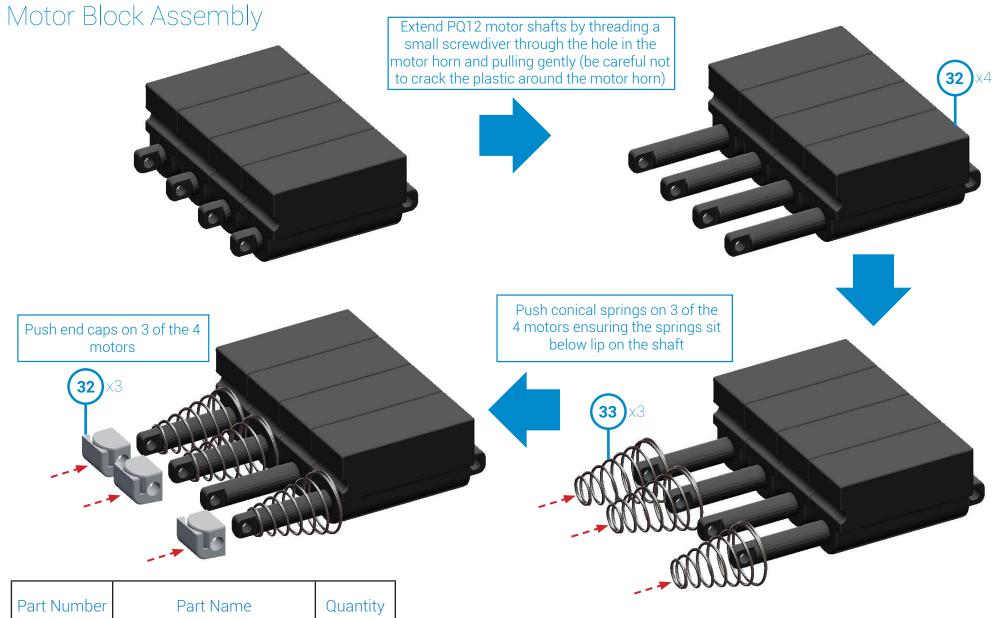
#### Dowel Inserts



Part Number	Part Name	Quantity
24	Palm	1
36	3x10mm Dowel Pins	2

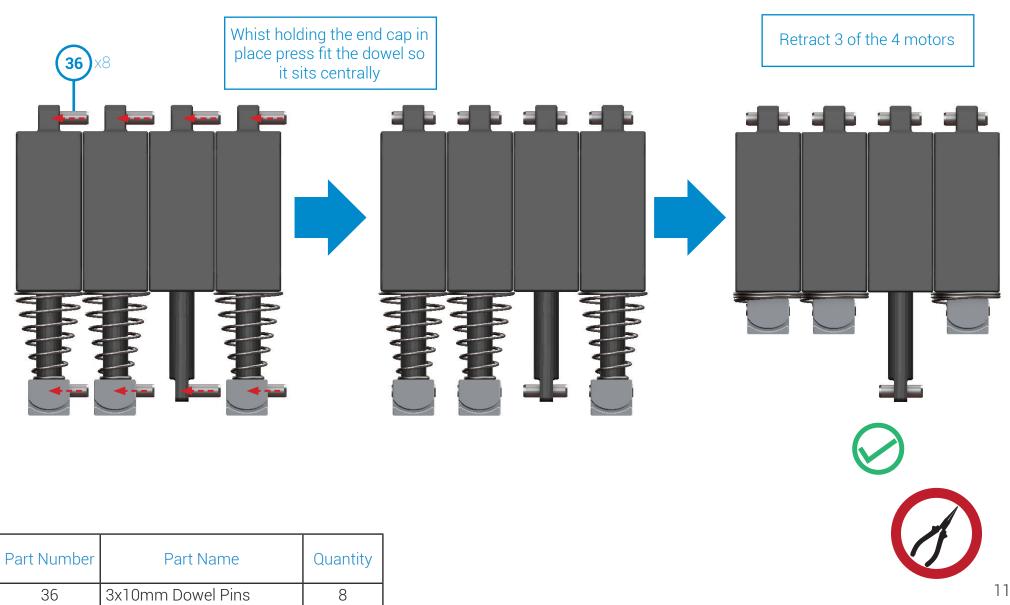
This dowel should 'click' when engaged correctly. When you overturn the palm the dowel should not fall out.



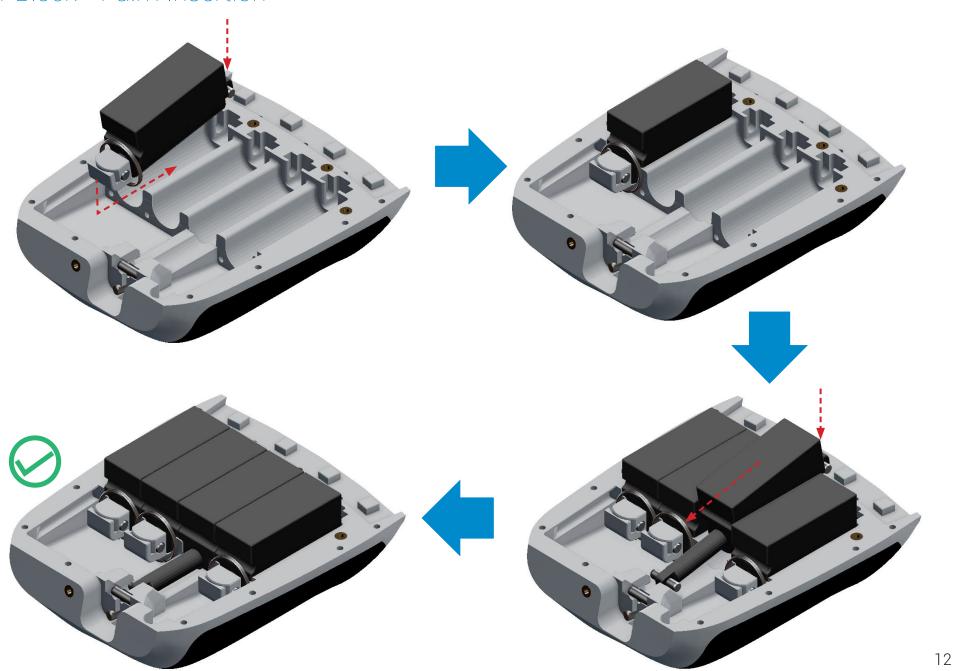


Part Number	Part Name	Quantity
32	PQ12 Motors	4
33	Conical Springs	3
26	Motor Caps	3

#### Motor Block - Assembly



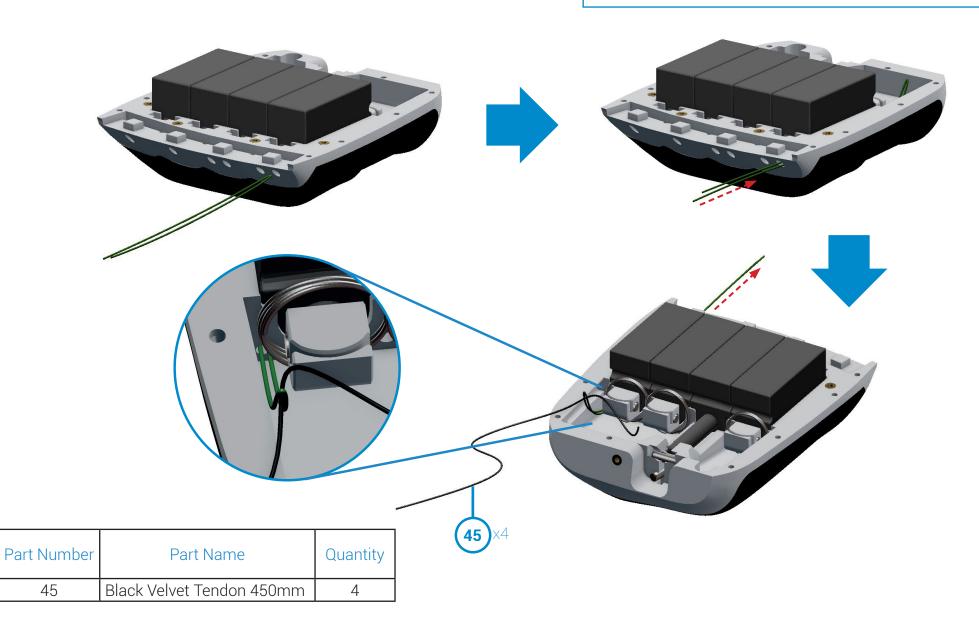
## Motor Block - Palm Insertion



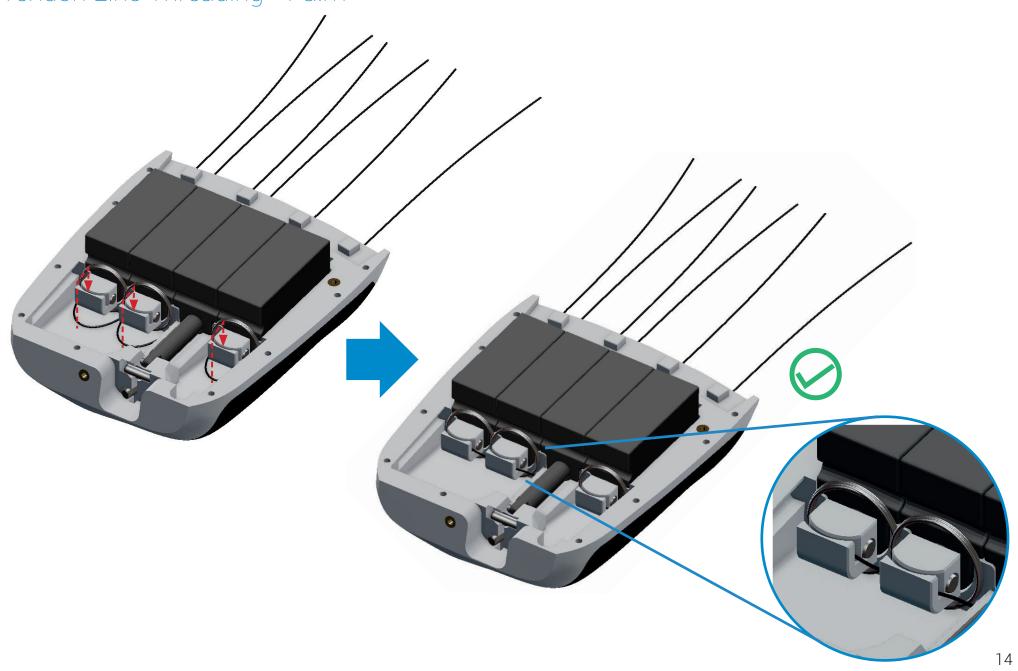
#### Tendon Line Threading - Palm

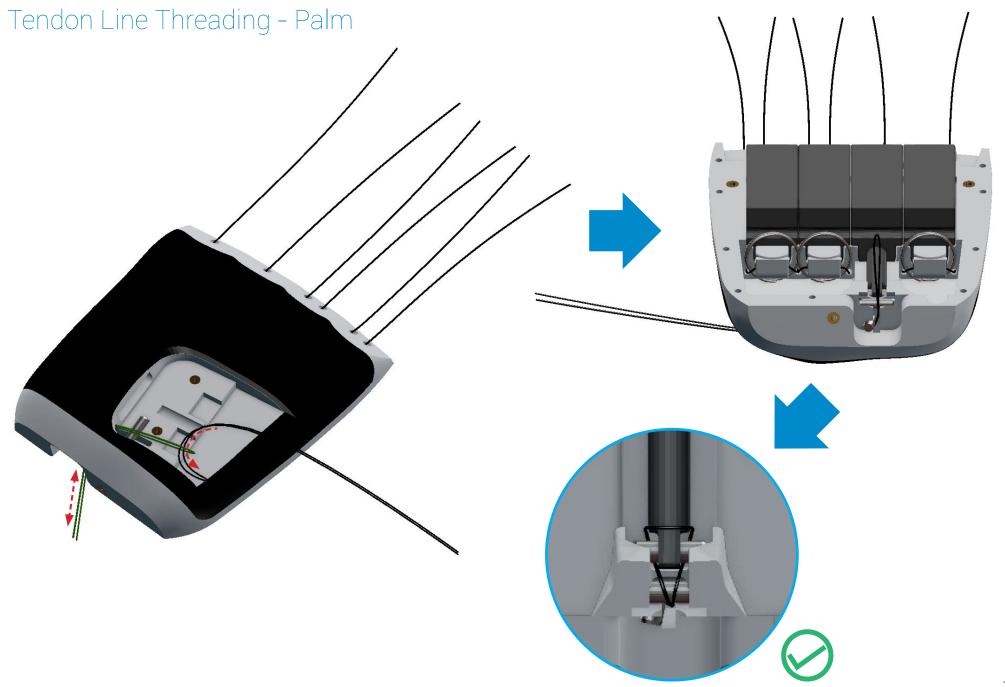
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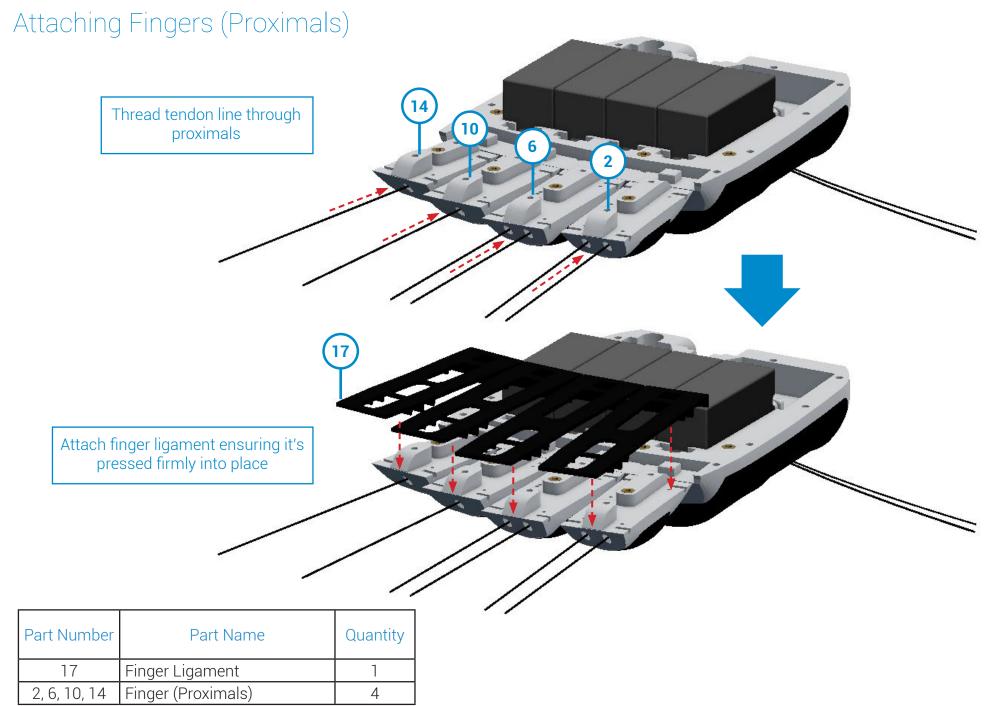
Cut x4 450mm lengths of Black Velvet Tendon line. Thread the tendon lines using approximately a 200mm length of 0.5mm wire



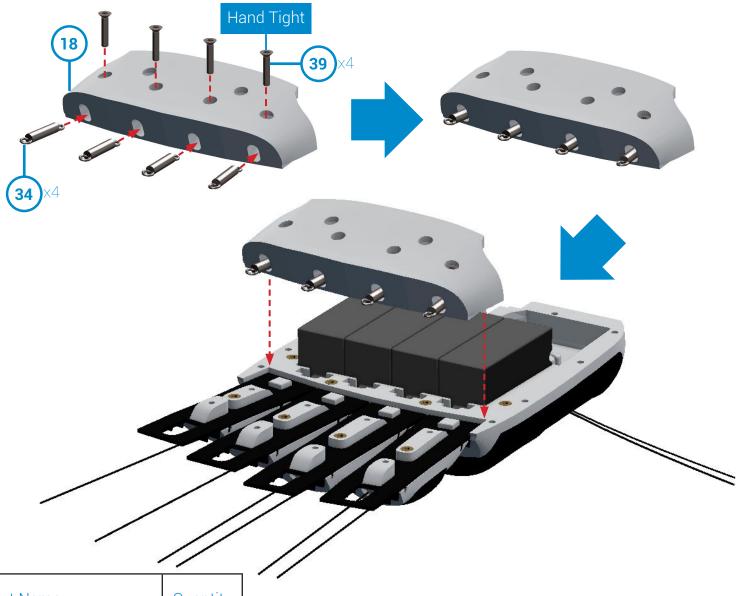
## Tendon Line Threading - Palm



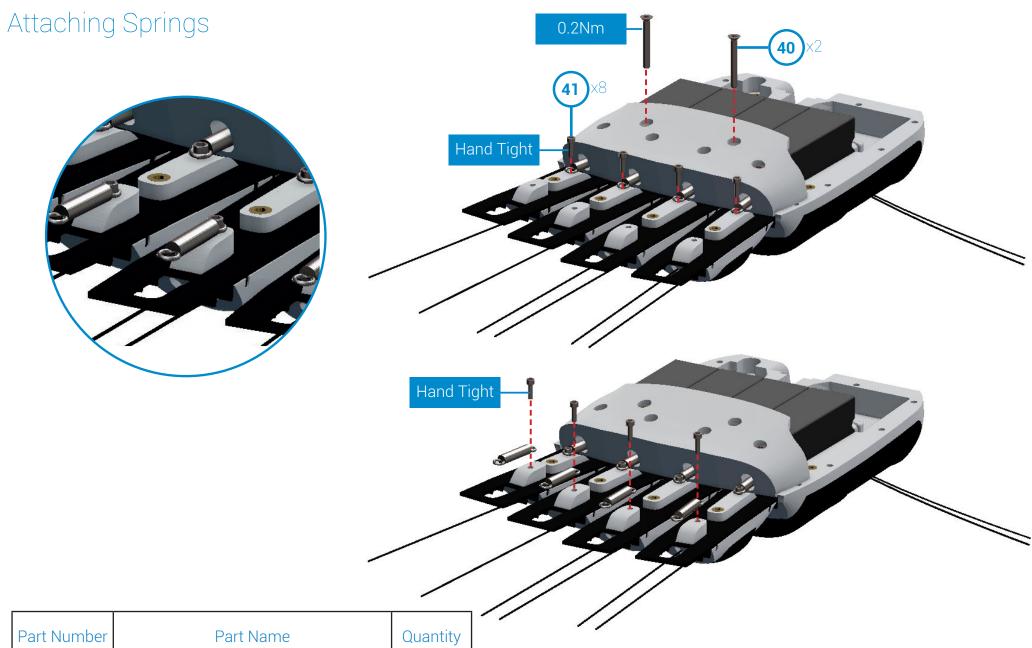






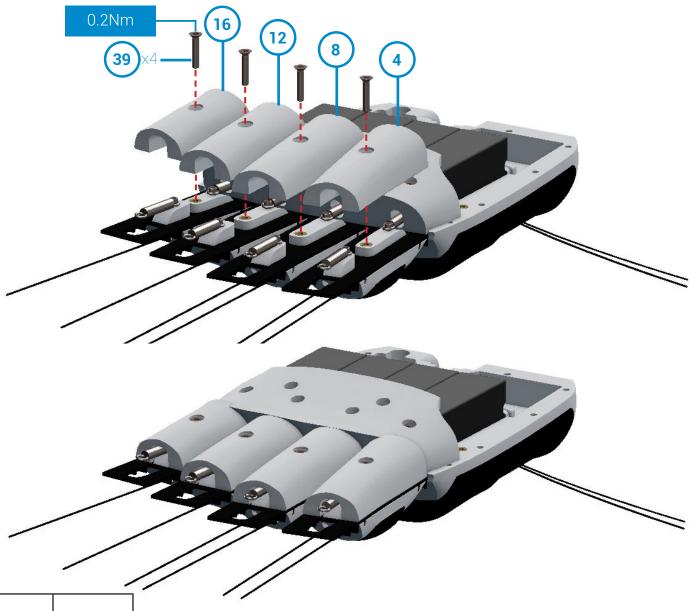


Part Number	Part Name	Quantity
18	Finger Ligament Cover	1
39	M2x10mm Torx Countersunk Screws	4
34	AC2305 Extension Springs	4

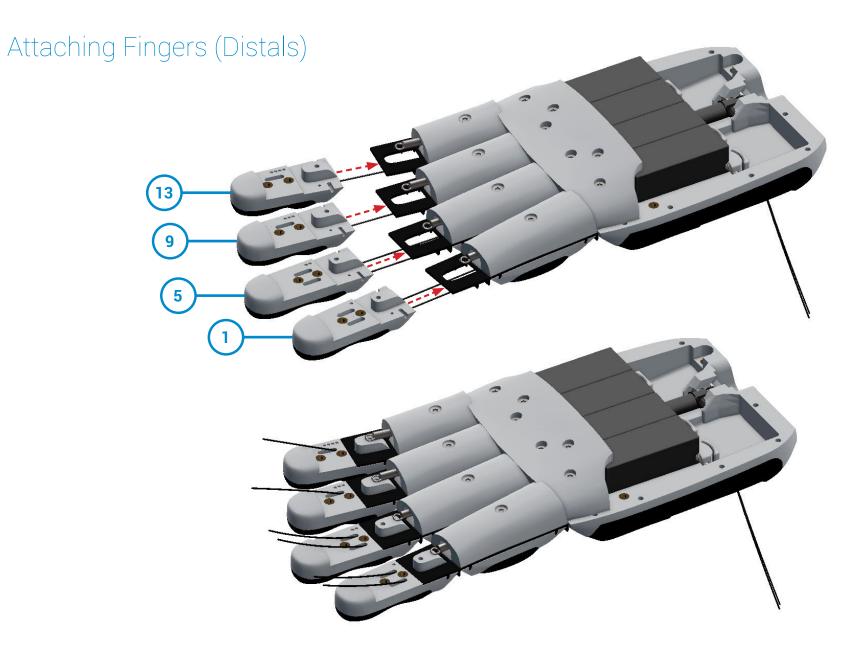


Part Number	Part Name	Quantity
40	M2x16mm Torx Countersunk Screws	2
41	M1.4x5mm Cap Head Screws	8

## Secure Proximal Top Covers

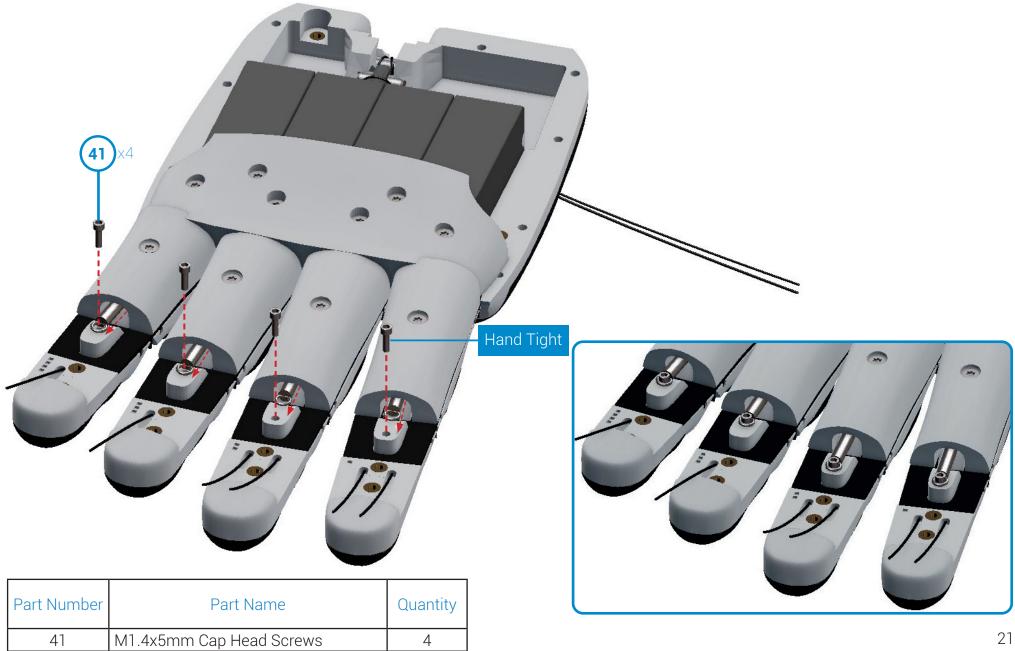


Part Number	Part Name	Quantity
4, 8, 12, 16	Top Covers (Finger Proximals)	4
39	M2x10mm Torx Countersunk Screws	4

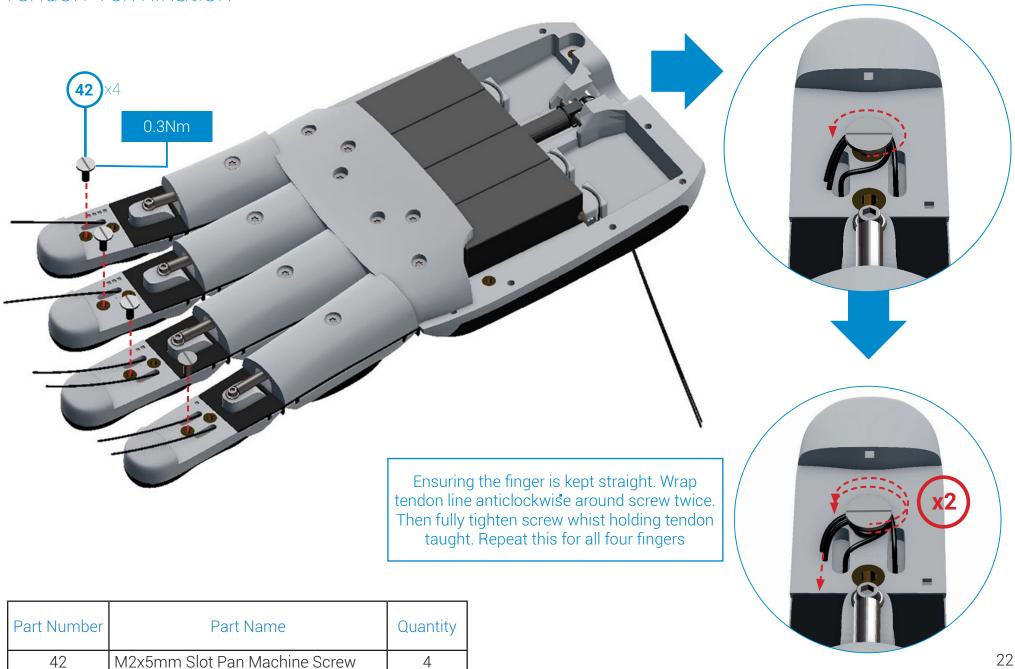


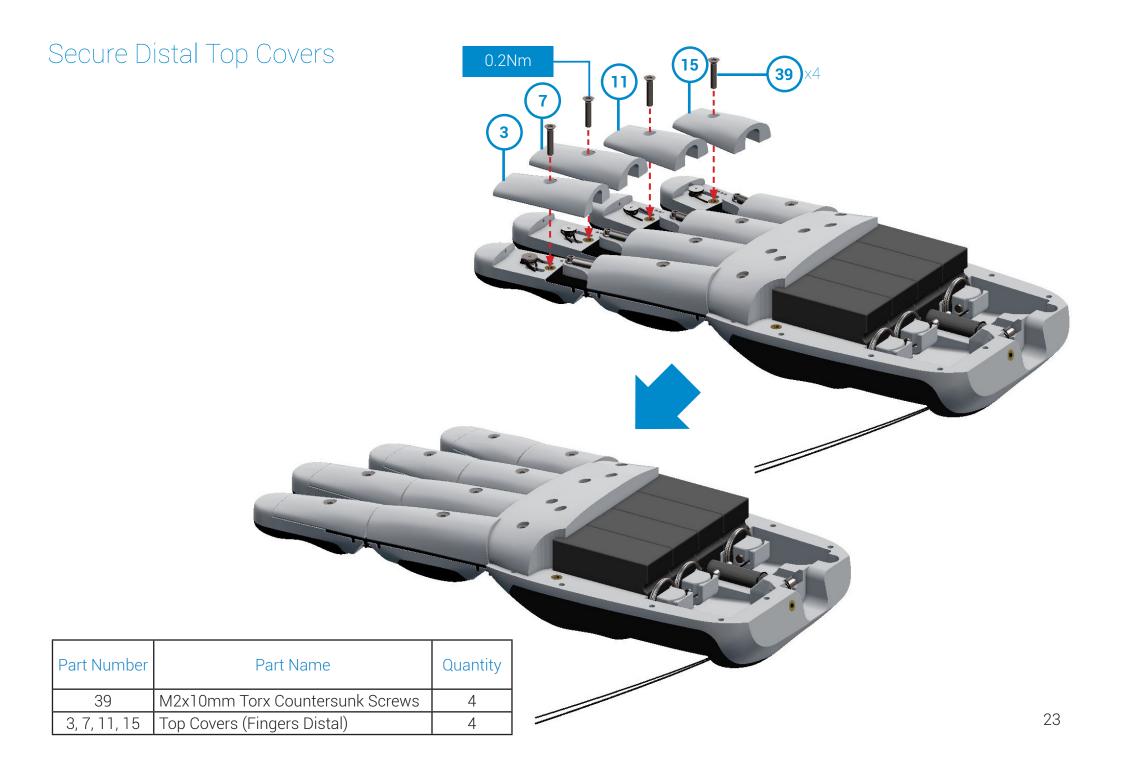
Part Number	Part Name	Quantity
1, 5, 9, 13	Fingers (Distal)	4

## Extension Spring Termination

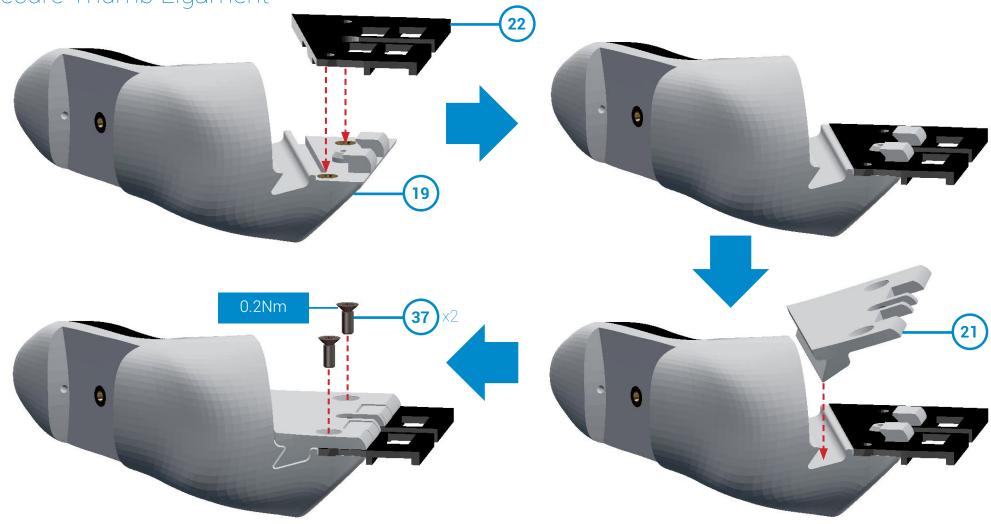


#### Tendon Termination



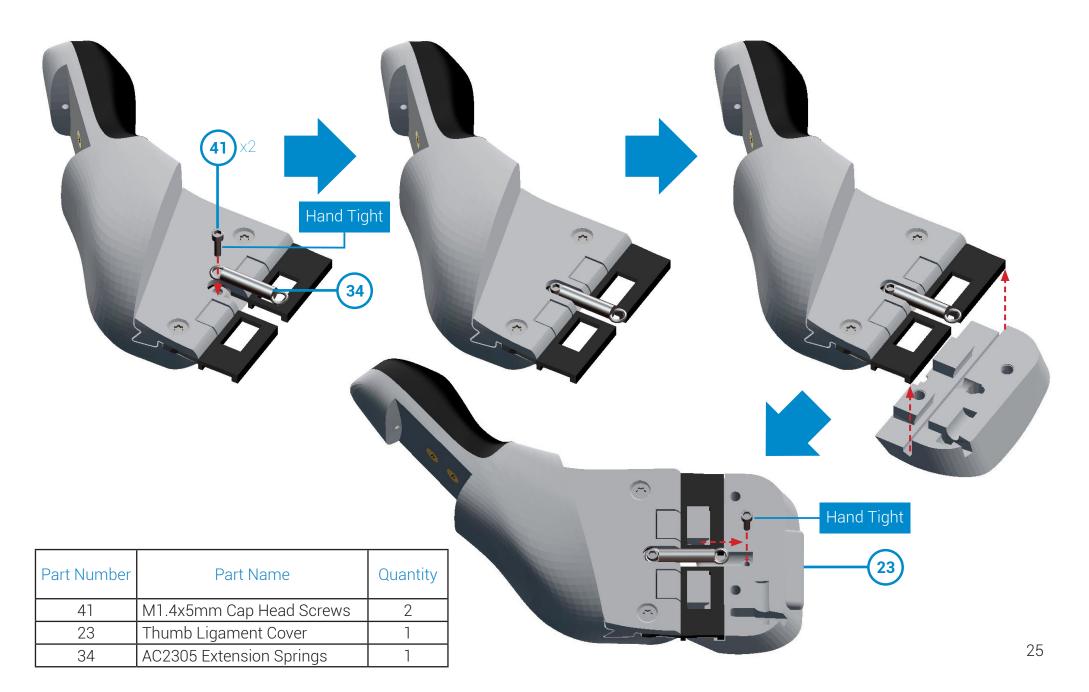




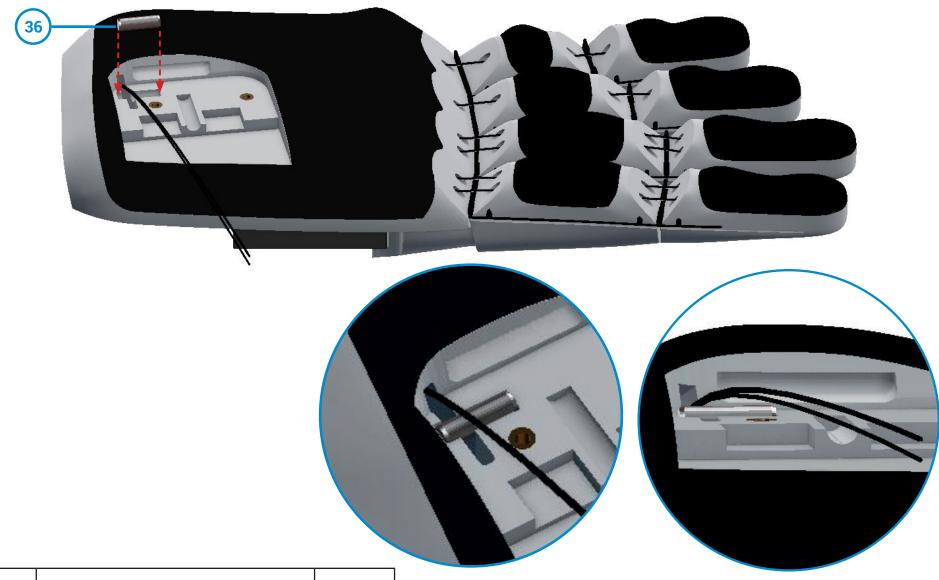


Part Number	Part Name	Quantity
19	Thumb	1
22	Thumb Ligament	1
21	Thumb Ligament Clamp	1
37	M2x5mm Torx Countersunk Screws	2

#### Secure Thumb Ligament

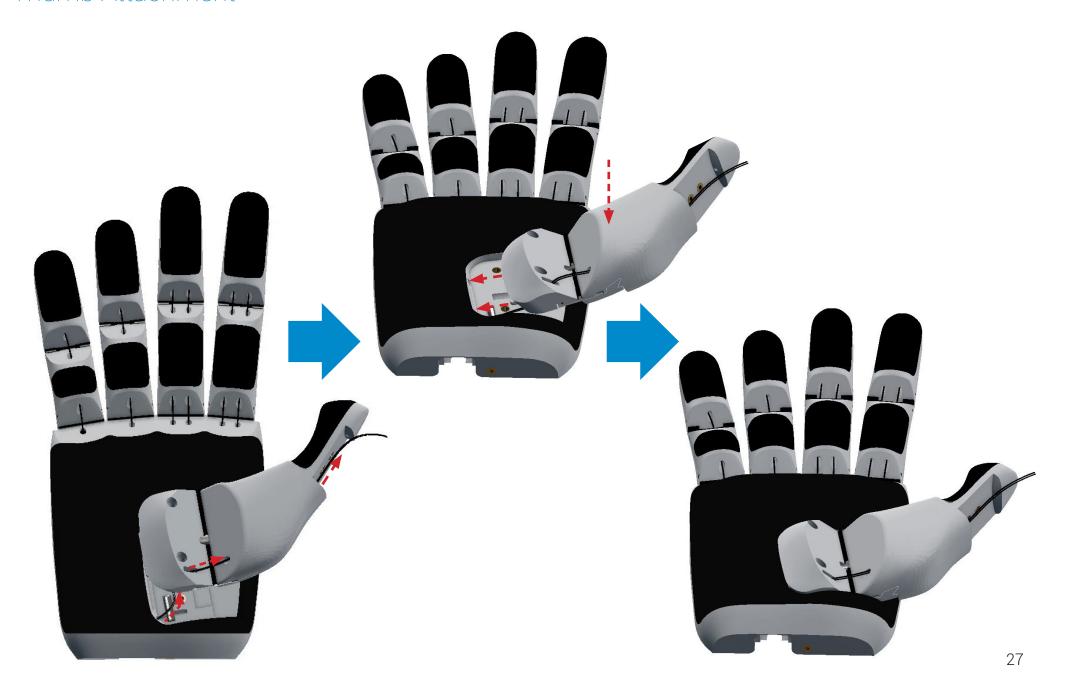


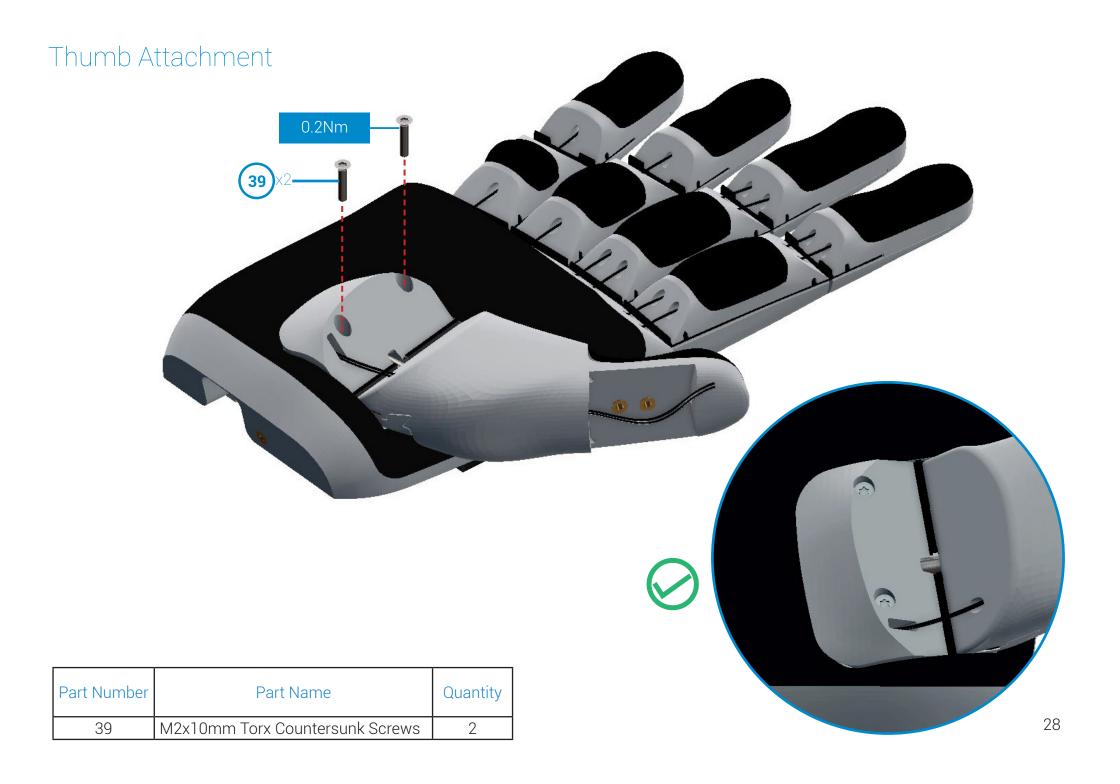
## Dowel Insertion Thumb



Part Number	Part Name	Quantity
36	3x10mm Dowel Pins	1

#### Thumb Attachment

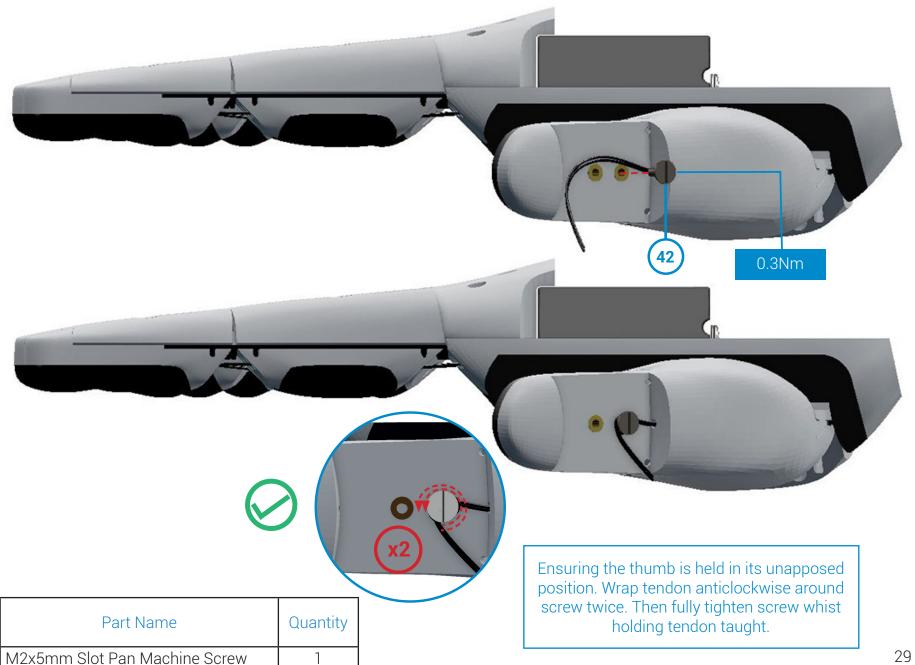




#### Tendon Termination - Thumb

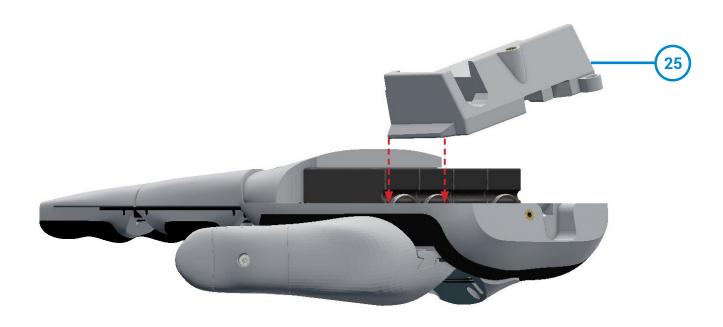
Part Number

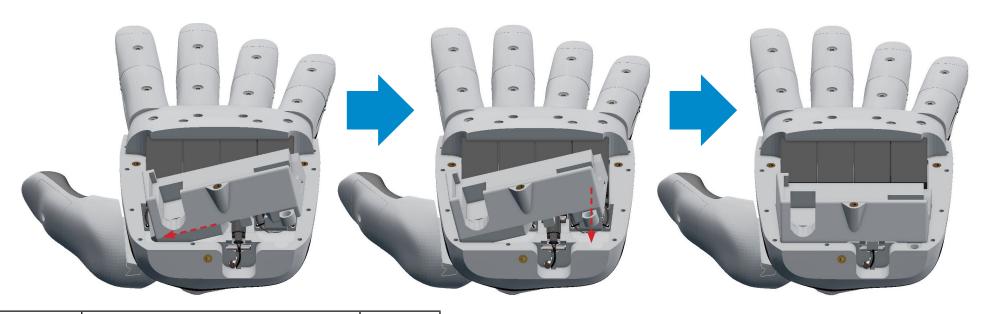
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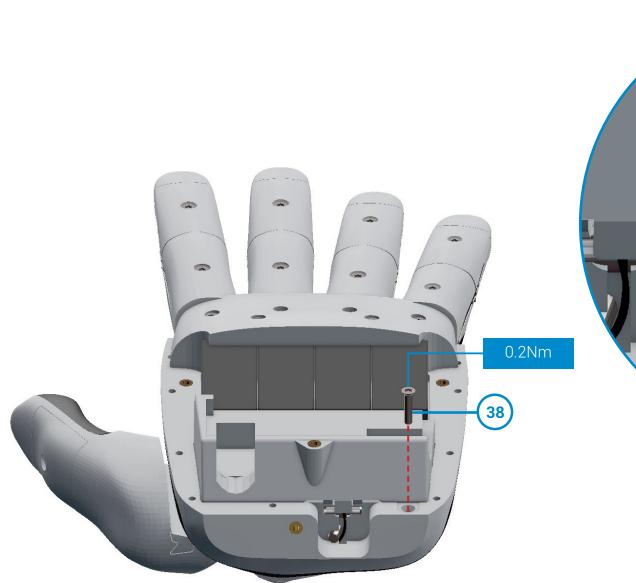
#### Attach Motor Cover





Part Number	Part Name	Quantity
25	Motor Cover	1

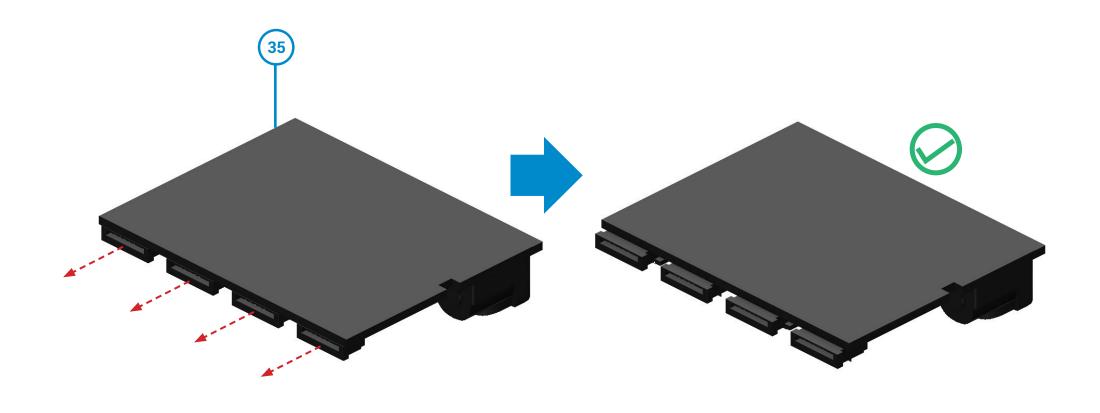
#### Attach Motor Cover





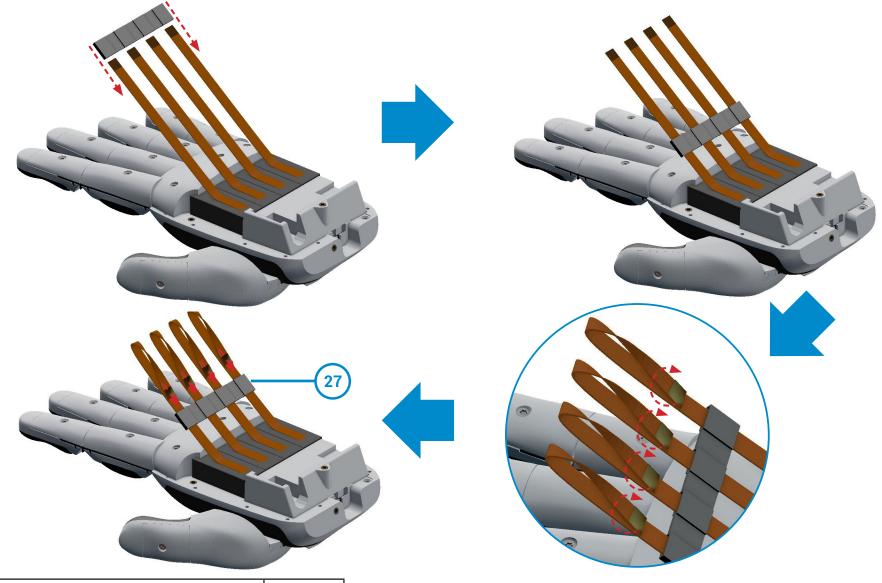
Part Number	Part Name	Quantity
38	M2x8mm Torx Countersunk Screws	1

## Release Chestnut PCB Clasps

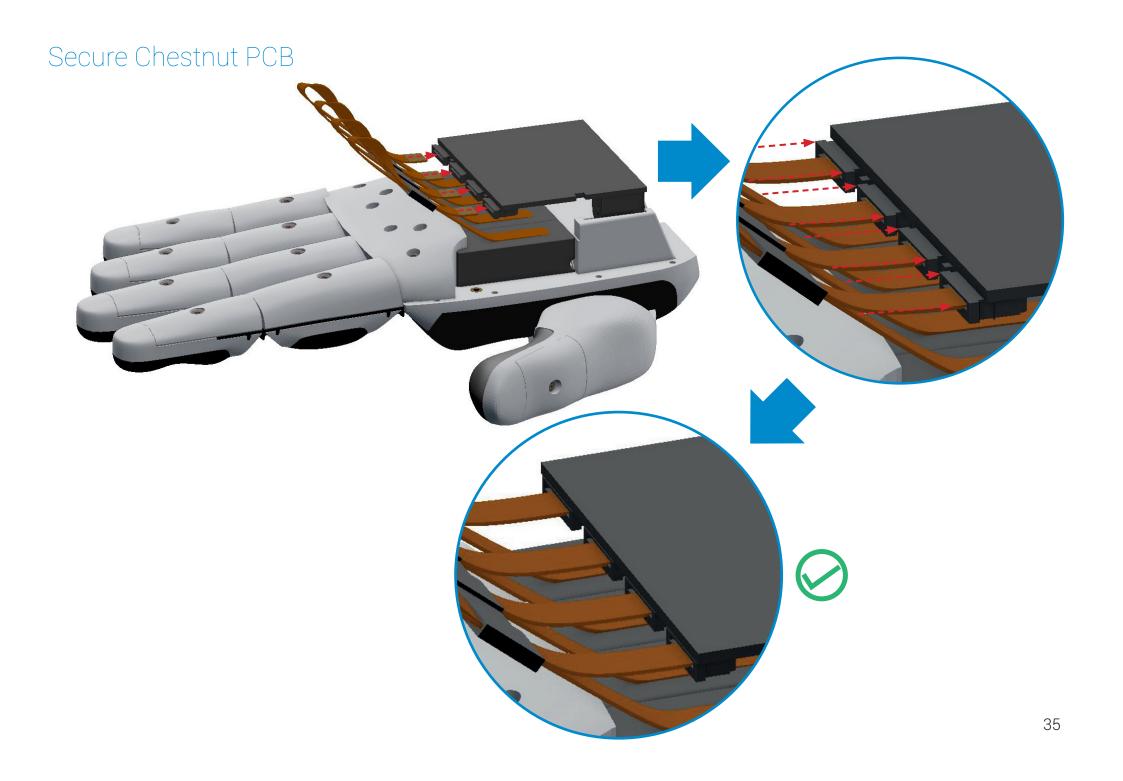


Part Number	Part Name	Quantity
35	Chestnut PCB	1

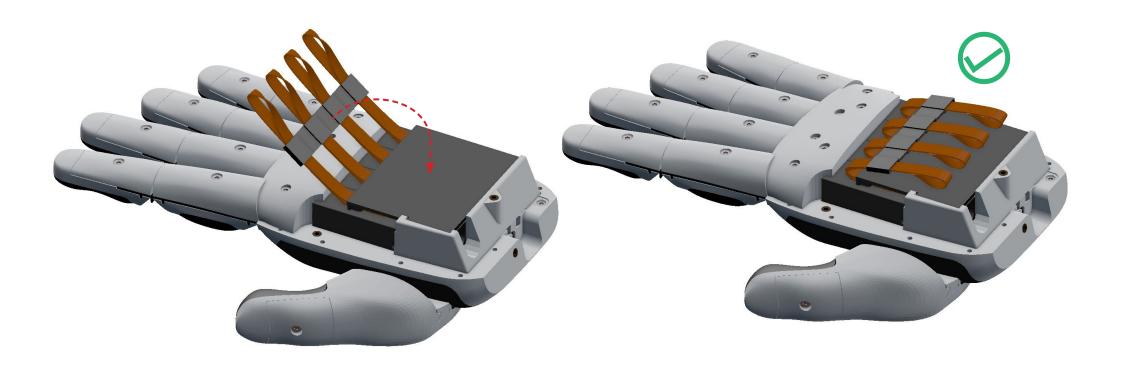
## Attach Cable Tidy

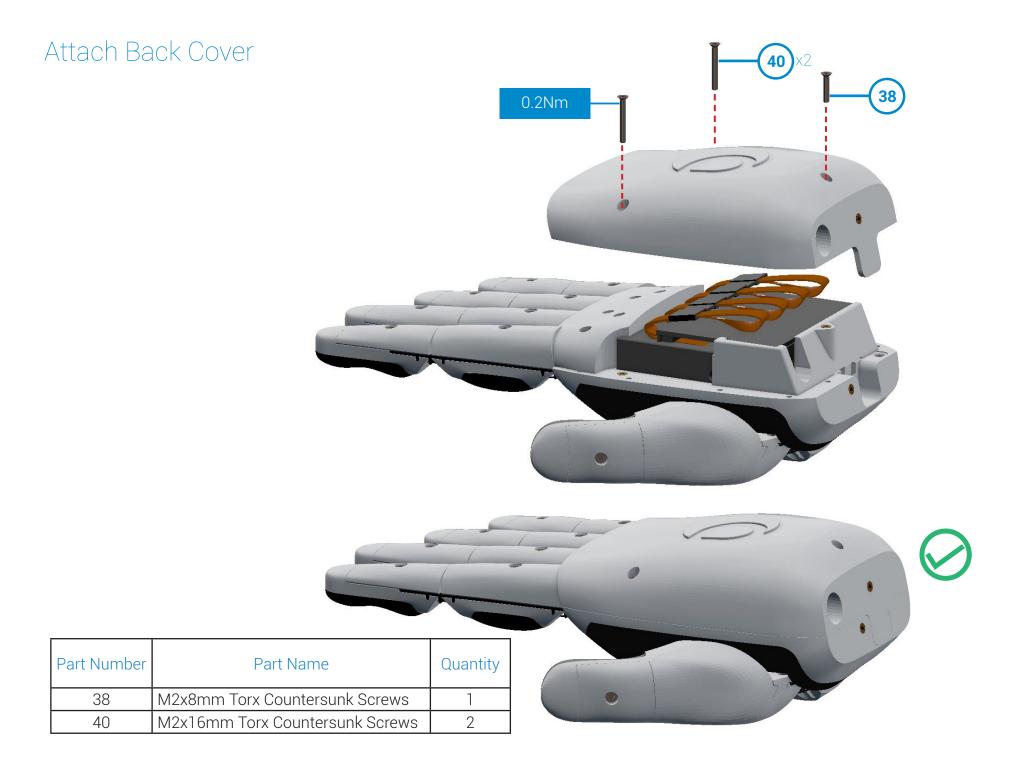


Part Number	Part Name	Quantity
27	Cable Tidy	1

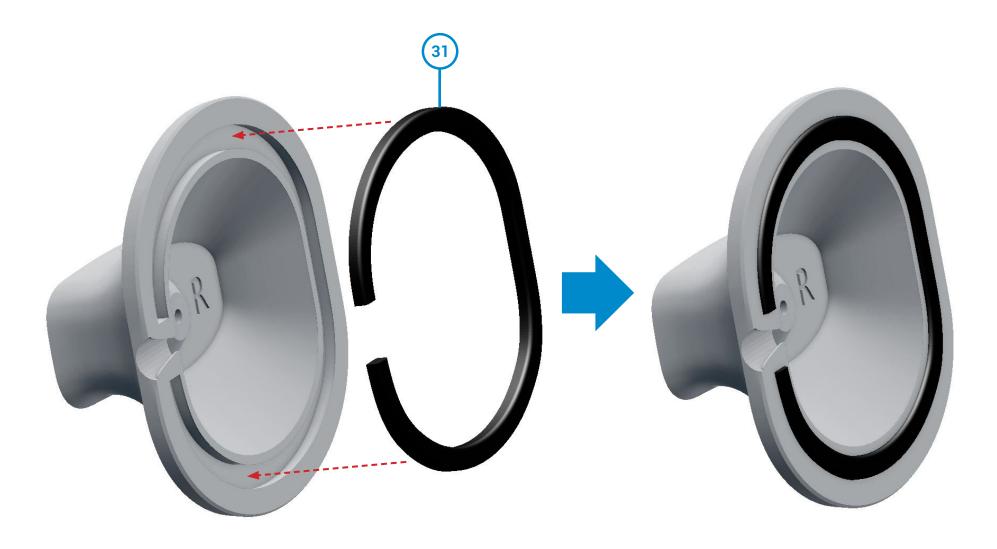


## Fold Cables





# Insert Stand Grip



Part Number	Part Name	Quantity
31	Stand Grip Band	1

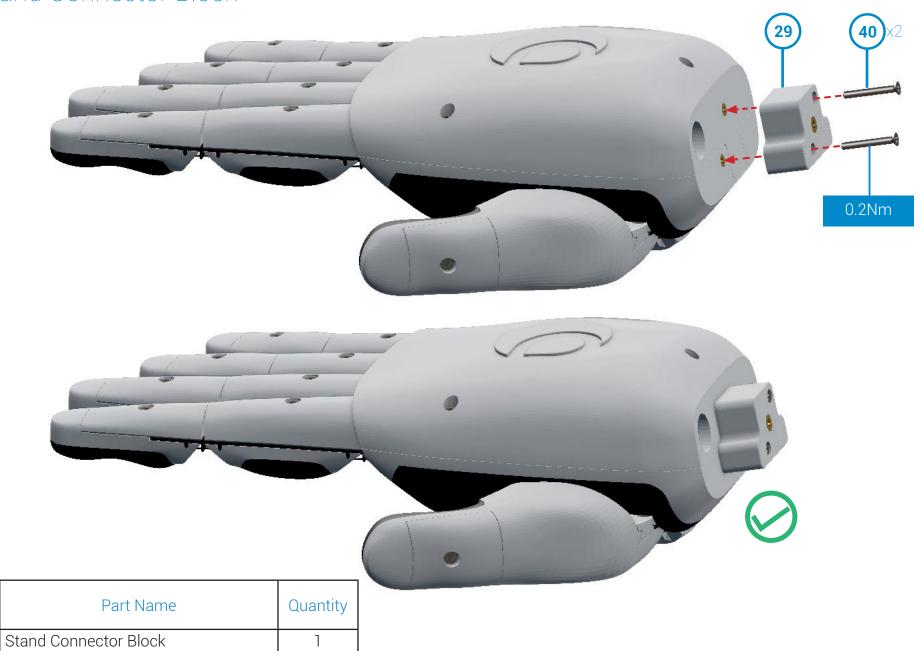
#### Attach Stand Connector Block

Part Number

29

40

M2x16mm Torx Countersunk Screws

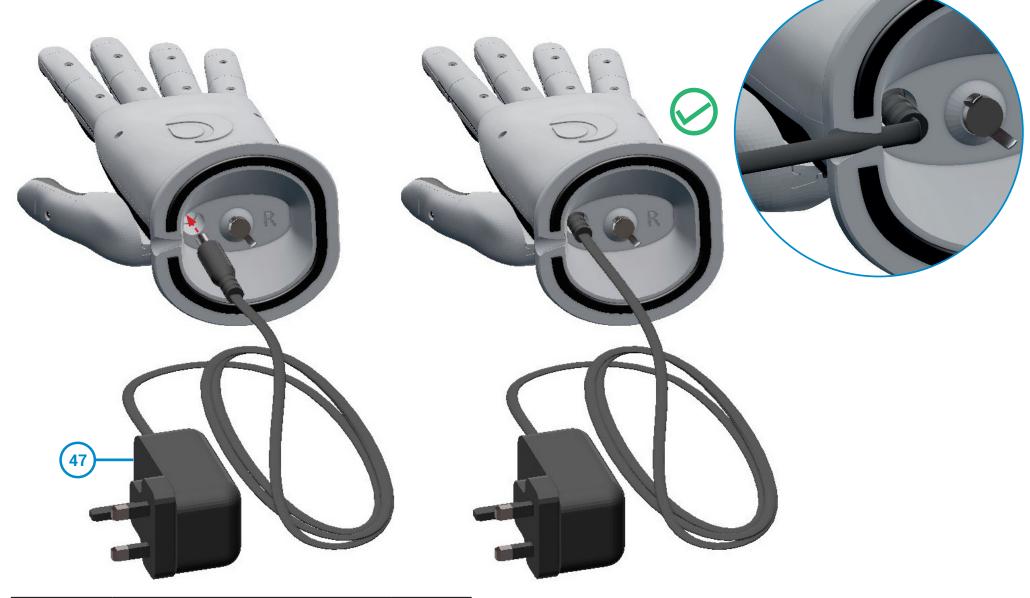


#### Attach Stand



Part Number	Part Name	Quantity
43	M3x10mm Winged Screw	1

## Insert Power Cable



Part Number	Part Name	Quantity
47	12V Power Cable	1



