

# Print Files

QTY	Tactor	Component	Color	Print Notes	Note
1	Squeeze	Squeeze_Case	White PLA	Print Flat Face Down	
1	Squeeze	Squeeze_Case_Door	White PLA	Print Flat Face Down	
1	Squeeze	Squeeze_Tactor_A	Orange PLA	Arm Side Down	
1	Squeeze	Squeeze_Tactor_B	Orange PLA	Arm Side Down	
1	Squeeze	Squeeze_Cover	Clear PLA	Top Face Down	
1	Hit	Hit_Case	White PLA	Print Flat Face Down	
1	Hit	Hit_Case_Door	White PLA	Print Flat Face Down	
1	Hit	Hit_Tactor	Orange PLA	Arm Side Down	
1	Hit	Hit_Cover	Clear PLA	Top Face Down	
1	Tap	Hit_Case	White PLA	Print Flat Face Down	Shared with Hit
1	Tap	Hit_Case_Door	White PLA	Print Flat Face Down	Shared with Hit
1	Tap	Tap_Tactor	Orange PLA	Arm Side Down	
1	Tap	Hit_Cover	Clear PLA	Top Face Down	Shared with Hit
1	Stroke	Stroke_Case	White PLA	Print Flat Face Down	
1	Stroke	Stroke_Tactor	Orange PLA	Concave Side Face Down	
1	Stroke	Stroke_Shaft	Orange PLA	Shorter Opening Side Face Down	
1	Stroke	Stroke_Cover	Clear PLA	Top Face Down	
1	Rub	Rub_Case	White PLA	Print Flat Face Down	
1	Rub	Rub_Tactor	Orange PLA	Concave Side Face Down	
1	Rub	Stroke_Shaft	Orange PLA	Shorter Opening Side Face Down	Shared with Stroke
1	Rub	Stroke_Cover	Clear PLA	Top Face Down	Shared with Stroke
1	Shake	Shake_Case	White PLA	Print Flat Face Down	

1	Shake	Shake_Case_Door	White PLA	Print Flat Face Down	
1	Shake	Shake_Tactor	Orange PLA	Arm Side Down	
1	Shake	Shake_Cover	Clear PLA	Top Face Down	
1	Push	Push_Case	White PLA	Print Flat Face Down	
1	Push	Push_Case_Door	White PLA	Print Flat Face Down	
1	Push	Push_Tactor	Orange PLA	Arm Side Down	
1	Push	Push_Cover	Clear PLA	Top Face Down	
1	Home	Home_Case	White PLA	Print Flat Face Down	
1	Home	Home_Cover	Clear PLA	Top Face Down	

# Module Hardware

QTY	Part Number	Price	Description	Packaging	Vendor
1	92311A143	\$4.15	18-8 Stainless Steel Cup-Point Set Screw 6-32 Thread, 3/16" Long	100/Pack	<a href="http://www.mcmaster.com">www.mcmaster.com</a>
1	94459A290	\$10.63	Brass Heat-Set Inserts for Plastic 6-32 Thread Size, 0.281" Installed Length	50/Pack	<a href="http://www.mcmaster.com">www.mcmaster.com</a>
1	92196A145	\$4.14	18-8 Stainless Steel Socket Head Screw 6-32 Thread Size, 5/16" Long	100/Pack	<a href="http://www.mcmaster.com">www.mcmaster.com</a>
1	Velcro Straps	\$13.87	WHITE Reusable Cinch Straps 1" x 12" - 12 Pack, Multipurpose Quality Hook and Loop Securing Straps (White)	12/Pack	<a href="#">amazon link</a>
1	B11DLS	\$21.99	B11DLS 180 Degree 6V Digital Mini Throttle Steering 11g RC Servo 2.8KG Metal Gear	Set of 2	<a href="#">amazon link</a>
1	FS90R	\$23.99	FEETECH FS90R (5 Pack) - 360 Degree Continuous Rotation Servo 9g for Robotic Helicopter Airplane Boat	5/Pack	<a href="#">amazon link</a>

# PCB Hardware

Designation	Part Description/Value	Manufacturer PN	Qty	Ext Link
X1, X2, X3, X4, X5, X6, X7, X8 (Male)	JST XH 3 Pin Connector (PCB)	<u>B3B-XH-AM(LF)(SN)</u>	8	
LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8	3mm LED -- Blue	<u>TJ-L3FYTGCBMCGSFLC6B-A5</u>	8	
R1, R2, R3, R4, R5, R6, R7, R8	330 ohm PTH resistor	<u>RN 1/2WS 68K F T/B A1</u>	8	
PWR	DC Barallel Jack 2.1x5.5	<u>DC-005-2.5A-2.5</u>	1	
C1	Capacitor 1000uF/10V	<u>KM102M010F150A</u>	1	
Nano-Header	Female Header	<u>C124408</u>	2	
Nano	Arduino Nano	-	1	<a href="#">amazon link</a>
X1, X2, X3, X4, X5, X6, X7, X8 (Female)	JST XH 3 Pin Connector (servo side)	<u>XHP-3</u>	8	

## 3D Printer Settings

Color	Material	Vendor	Extruder Temperature	Bed Temperature	Speed	Notes
White	PLA	<a href="#">amazon link</a>	200°C	65°C with glue	1st layer 50%, 175% after that	We used Ender 3 Pro 3D Printer
Orange	PLA	<a href="#">amazon link</a>	200°C	65°C with glue	1st layer 50%, 175% after that	
Clear	PLA	<a href="#">prusa research link</a>	220°C	80°C on glass bed	top part 50%, wall 100%	