

Part #1: Base Assembly







Part #2: Shoulder Assembly





Part #2: Shoulder Assembly





Part #3: Arm





Part #4: Forearm Assembly



1. Insert 6 M3 nuts into the nut traps on the half of the Forearm body





- Place the second half of the forearm body over the stepper motor and components installed in the previous half
 Insert M3x10 cap screw in the end to fix the motor in place
- 3. Install 6 M3 cap screws to hold the
- body of the forearm together
- 4. Attach the Belt with 70 teeth to the
 - belt tooth traps



Part #5: Wrist Assembly





Part #5: Wrist Assembly

8x22x7 Bearings
80mm Shaft
M3 Thermal Inserts
7
M4 Thermal Inserts
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 Drop the wrist gear into the assembly and loop the belt around the timing pulley
Lift the assembly up and insert the

8mm shaft to lock the gear unit in

place

3. Insert 8 M3 thermal inserts and 1 M4

thermal inserts

To attach the gripper to the wrist, slide mating feature onto the stepper shaft and tighten perpendicular bolts

To attach the gripper to the forearm place it on the threaded shaft of the forearm and then spin it until the shaft is threaded. You may have to lock the shaft using a screwdriver or flat piece.



Part #6: Gripper Assembly

RBX1: Assembly Guide



1. Insert 11 M3 Nuts into their respective nut traps



 Fasten all M3x16 cap screw into each of the available holes
The indicated screws should have a washer on both inside faces to prevent friction between parts.



Part #7: Final Assembly





6 Axis 3D Printed Robot Arm

Kit Contents



Bearings (4 Types)	Linear Bushings Axis Shafts Rigid Coupler				Servo Motor
-		M5 Nuts	M4 Nuts	M3 Thermal Inserts M3	Lower Timing Pullies
M5 X 14		M4 X 60 M5 X 20 M4 X 25	M4 X 20 M4 X 40 M4 X 45 M4 X 30	M4 X 12 M4 X 10 M4 X 15 M4 X 15 M4 X 8	Upper Timing Pullies
M8 X 65 M8 Nuts	M3 X 35 M3 X 30 M3 X 40	M3 X 20 M3 X 25	M3 X 12 M3 X 16	M3 X 10 M3 X 8	Cable Wrap
Bootable SD Card	Tools Cable Ties T5 Timing Belts			Cable Wrap	