

MAE 94 Project Notes

ASSEMBLY BREAKDOWN:

✓ ~~Number of subassemblies required: 5~~

✓ ~~Number of parts per subassembly: 5~~

Current number of subassemblies: 6

Number of subassemblies that meet spec: 5

FULL ASSEMBLY (6 SUBASSEMBLIES 1 PART)

Base Assembly (6)

1. base
2. motor
3. motor offset plate
4. base rotation plate
5. electronics housing base
6. electronics cover
7. motor ← doesn't count

Base Motor Housing Assembly (2)

1. base motor housing
2. motor mounting plate
3. motor ← doesn't count

Gear Assembly (6)

1. outer gear
 2. inner gear
 3. gear housing
 4. gear backing plate
 5. slotted shaft
 6. gear assembly mounting plate
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Lower Arm Assembly (6)

1. connection plate
 2. Lower arm
 3. mounting plate
 4. motor mounting pt1
 5. motor mounting pt2
 6. motor mounting pt3
 7. motor ← doesn't count
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Upper Arm Assembly (5)

1. fore arm
 2. arm bracket
 3. shaft
 4. connector shaft
 5. upper motor bracket
 6. motor ← doesn't count
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Gripper (9)

1. rotating center bar
 2. rotating outer bar x 2
 3. motor coupling
 4. gripper base
 5. sled x 2
 6. guide shaft
 7. motor bracket
 8. mounting brackets
 9. motor mounting
 10. motor x 3 ← doesn't count
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Misc.

1. motor driveshaft coupling