

| | | | | | Dil | LL OF MATERIALS |) | | | QTY X UNIT | | |
|--------|--|-----------|------|------------------|---------------------------|-----------------|-----|------|-------------------|------------------|---|--|
| | | BRAND | | | | SKU NO | | | DOLLARS | COST DOLLARS | | |
| TEM NO | DESCRIPTION | UNIT SIZE | MFGR | MFGR PART NO. | SOURCE VENDOR | PART NO | QTY | UM | UNIT COST | EXTENDED COST | SPEC SHEET | NOTES |
| 1 | C-BEAM LINEAR ACTUATOR BUNDLE, 250MM | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 995-BUNDLE | 1 | EACH | \$101.99 | \$101.99 | https://openbuildspartstore.com/c-beam-linear-bundle/ | INCLUDE MOTOR IN KIT |
| 1A | LOW PROFILE SCREWS M5 X 25MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 20-PACK | 1 | EACH | \$1.39 | \$1.39 | https://openb uildspartstore. com/low- profile- screws-m5- 10-pack/ | NAN |
| 1B | LOW PROFILE SCREWS M5 X 20MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 750-PACK | 1 | EACH | \$1.29 | \$1.29 | https://openbuildspartstore.com/low-profile-screws-m5-10-pack/ | |
| 1C | LOW PROFILE SCREWS M5 X 55MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 760-PACK | 1 | EACH | \$1.99 | \$1.99 | https://openbuildspartstore.com/low-profile-screws-m5-10-pack/ | |
| 1D | ALUMINUM SPACERS 6MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 90-PACK | 1 | EACH | \$3.39 | \$3.39 | https://openbuildspartstore.com/aluminum-spacers-10-pack/https://openb | NAN |
| 1E | ALUMINUM SPACERS 40MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 95-PACK | 1 | EACH | \$7.89 | \$7.89 | uildspartstore. com/aluminu m-spacers-10- | NAN |
| 1F | 1/4" X 8MM FLEXIBLE SHAFT COUPLING | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 155 | 1 | EACH | \$6.99 | \$6.99 | pack/ https://openb uildspartstore. com/1-4-x- 8mm-flexible- coupling/ | NAN |
| 1G | ALUMINUM SPACERS 3MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 175-PACK | 1 | EACH | \$2.49 | \$2.49 | https://openbuildspartstore.com/aluminum-spacers-10-pack/ | NAN |
| | | | | | | | | | PROPRIETARY AND C | DNFIDENTIAL | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± MFG APPR. INTERPRET GEOMETRIC TOLERANCING PER: COMMENTS: | NAME DATE Kieu Huynh06/05/20 TITLE: TRANS RO |

SIZE DWG. NO. SCALE: 1:10 WEIGHT: DO NOT SCALE DRAWING

| | | | | | BIL | L OF MATERIA | LS | | | QTY X UNIT | | |
|---------|--|-----------|------|------------------|---------------------------|--------------|-----|------|---------------------------------------|-----------------------------|--|--|
| | | BRAND | | | | SKU NO | | | DOLLARS | COST DOLLARS EXTENDED | | |
| ITEM NO | DESCRIPTION | UNIT SIZE | MFGR | MFGR PART NO. | SOURCE VENDOR | PART NO | QTY | UM | UNIT COST | EXTENDED COST | SPEC SHEET https://open | NOTES |
| 1H | ECCENTRIC SPACER 6MM | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 226 | 2 | EACH | \$1.99 | \$3.98 | buildspartstor e.com/ecce ntric-spacer/ https://open | NAN |
| 11 | BALL BEARING 688Z 8X16X5 | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 780 | 2 | EACH | \$0.99 | \$1.98 | buildspartstor e.com/ball- bearing-688z- 8x16x5/ https://open | NAN |
| 1J | 8MM SHIM | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 835 | 2 | EACH | \$0.29 | \$0.58 | buildspartstor e.com/shim- 12-x-8-x- 1mm/ | NAN |
| 1K | LOCK COLLAR 8MM | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 840 | 2 | EACH | \$1.19 | \$2.38 | https://open buildspartstor e.com/lock- collar/ https://open | NAN |
| 1L | XTREME MINI V WHEEL KIT | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 876 | 4 | EACH | \$5.99 | \$23.96 | buildspartstor e.com/xtrem e-mini-v- wheel-kit/ | NAN |
| 1M | C-BEAM END MOUNT | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 965 | 2 | EACH | \$8.99 | \$17.98 | https://open buildspartstor e.com/c- beam-end- mount/ | NAN |
| 1N | C-BEAM GANTRY PLATE | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 970 | 1 | EACH | \$9.99 | \$9.99 | https://open buildspartstor e.com/c- beam- gantry-plate/ | NAN |
| 10 | ANTI- BACKLASH NUT BLOCK | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 1055-SET | 1 | EACH | \$9.99 | \$9.99 | https://open buildspartstor e.com/anti- backlash-nut- block-for- 8mm-metric- acme-lead- screw/ | NAN |
| 10A | NYLON INSERT HEX LOCKNUT (BLACK) M5 X 5MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 2285-PACK | 1 | EACH | \$1.09 | \$1.09 | https://open buildspartstor e.com/nylon- insert-hex- locknut-m5- 10-pack/ | NAN |
| | | | | | | | | | PROPRIETARY AND (THE INFORMATION CON | | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± THREE PLACE DECIMAL ± MFG APPR. INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL COMMENTS: | NAME DATE Kieu Huynh06/05/20 TITLE: TRANSL ROE SIZE DWG. NO. |

| 8 | 7 | | 6 | | 5 | | 4 | | 3 | | 2 | 1 | |
|--------------|--|-----------------|----------------|-----------|---------------------------|-----------------|----------|------|--|---|--|--|---------------|
| | | | | | BII | LL OF MATERIALS | | | | | | | |
| | | | | | | | | | | QTY X UNIT | | | |
| | | BRAND | | MFGR PART | SOUDCE | SKU NO | | | DOLLARS | COST DOLLARS EXTENDED | | | |
| ITEM NO | DESCRIPTION | UNIT SIZE | MFGR | NO. | SOURCE VENDOR | PART NO | QTY | UM | UNIT COST | COST | SPEC SHEET | NOTES | |
| 1P | C-BEAM LINEAR RAIL 250MM | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 05-LP | 1 | EACH | \$8.99 | \$8.99 | https://open buildspartstor e.com/c- beam-linear- rail/ | NAN | |
| 1Q | 8MM METRIC ACME LEAD SCREW 290MM | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 25-LP | 1 | EACH | \$10.99 | \$10.99 | https://open buildspartstor e.com/8mm- metric-acme- lead-screw/ | NAN | |
| 2 | BELT AND PINION ACTUATOR BUNDLE, 500MM | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 2565-BUNDLE | 1 | EACH | \$84.99 | \$84.99 | https://open buildspartstor e.com/nema -23-belt- pinion- actuator- bundle/ | DO NOT INCLUDE MOTOR IN KIT | |
| 2A | LOW PROFILE SCREWS M5 12MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 2190-PACK | 1 | EACH | \$1.09 | \$1.09 | https://open buildspartstor e.com/low- profile- screws-m5- 10-pack/ | NAN | |
| 2B | LOW PROFILE SCREWS M5 27MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 2260-PACK | 1 | EACH | \$1.39 | \$1.39 | https://open buildspartstor e.com/low- profile- screws-m5- 10-pack/ | NAN | |
| 2C | LOW PROFILE SCREWS M5 8MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 946-PACK | 1 | EACH | \$0.99 | \$0.99 | https://open buildspartstor e.com/low- profile- screws-m5- 10-pack/ | NAN | |
| 2D | TEE NUTS - M5 | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 536-PACK | 1 | EACH | \$2.99 | \$2.99 | https://open buildspartstor e.com/tee- nuts-m5-10- pack/ https://open | NAN | |
| 2E | GT3 (GT2-3M) TIMING PULLEY 20 TOOTH | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 712 | 1 | EACH | \$7.99 | \$7.99 | buildspartstor e.com/3gt- gt2-3m- timing-pulley- 20-tooth-250- bore-9mm- belt/ | N 1 A N 1 | |
| | | | | | | | | | PROPRIETARY AND CO THE INFORMATION CONT DRAWING IS THE SOLE PR <insert company="" in="" nam="" part="" pe<="" reproduction="" td="" the="" without="" written=""><td>AINED IN THIS OPERTY OF E HERE>. ANY OR AS A WHOLE RMISSION OF NEXT ASSY USED</td><td>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL DRAWN CHECKED ENG APPR. MFG APPR. G.A. COMMENTS:</td><td>NAME DATE Kieu Huynh06/05/20 TITLE: TRANS RO SIZE DWG. NO. D</td><td>SLATIO BOT</td></insert> | AINED IN THIS OPERTY OF E HERE>. ANY OR AS A WHOLE RMISSION OF NEXT ASSY USED | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL DRAWN CHECKED ENG APPR. MFG APPR. G.A. COMMENTS: | NAME DATE Kieu Huynh06/05/20 TITLE: TRANS RO SIZE DWG. NO. D | SLATIO BOT |
| OLIDWORKS Ed | ucational Produ c t. I | For Instruction | nal Use Only.∠ | | 5 | | <u> </u> | | INSERT COMPANY NAM PROHIBITED. | E HERE> IS APPLICATION | DO NOT SCALE DRAWING | SCALE: 1:10 WEIGHT: | T: SH |

| | | | | | | BILL OF MAT | LINIALO | | | QTY X UNIT | | | |
|-------|--|--------------------|------|------------------|---------------------------|-------------------|---------|------|-------------------|----------------------------|--|--|--------------|
| EM NO | DESCRIPTION | BRAND UNIT SIZE | MFGR | MFGR PART NO. | SOURCE VENDOR | SKU NO PART NO | QTY | UM | DOLLARS UNIT COST | COST DOLLARS EXTENDED COST | SPEC SHEET | NOTES | |
| 2F | XTREME SOLID V WHEEL KIT | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 465 | 4 | EACH | \$6.99 | \$27.96 | https://openbuildspartsto re.com/xtreme-solid-v- wheel-kit/ | NAN | |
| 2G | NYLON INSERT HEX LOCKNUT M5 (BLACK) | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 2285-PACK | 1 | EACH | \$1.09 | \$1.09 | https://openbuildspartsto re.com/nylon-insert-hex- locknut-m5-10-pack/ | NAN | |
| 2H | MOTOR MOUNT PLATE NEMA 23 | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 910 | 1 | EACH | \$7.99 | \$7.99 | https://openbuildspartsto re.com/motor-mount- plate-nema-23-stepper- motor/ | NAN | |
| 21 | DOUBLE TEE NUT | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 60 | 1 | EACH | \$0.69 | \$0.69 | https://openbuildspartsto re.com/double-tee-nut/ | NAN | |
| 2F | XTREME SOLID V WHEEL KIT | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 465 | 4 | EACH | \$6.99 | \$27.96 | https://openbuildspartsto re.com/xtreme-solid-v- wheel-kit/ | NAN | |
| 2G | NYLON INSERT HEX LOCKNUT M5 (BLACK) | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 2285-PACK | 1 | EACH | \$1.09 | \$1.09 | https://openbuildspartsto re.com/nylon-insert-hex- locknut-m5-10-pack/ | NAN | |
| 2H | MOTOR MOUNT PLATE NEMA 23 | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 910 | 1 | EACH | \$7.99 | \$7.99 | https://openbuildspartsto re.com/motor-mount- plate-nema-23-stepper- motor/ | NAN | |
| 21 | DOUBLE TEE NUT | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 60 | 1 | EACH | \$0.69 | \$0.69 | https://openbuildspartsto re.com/double-tee-nut/ | NAN | |
| 2J | ALUMINUM SPACERS 6MM | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 90-PACK | 1 | EACH | \$3.39 | \$3.39 | https://openbuildspartsto re.com/aluminum- spacers-10-pack/ | NAN | |
| 2K | ECCENTRIC SPACER 6MM | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 226 | 2 | EACH | \$1.99 | \$3.98 | https://openbuildspartsto re.com/eccentric- spacer/ | NAN | |
| 2L | GT3 TIMING BELT | PER FOOT | NAN | NAN | OPENBUILDS PARTS STORE | 26-BY-THE-FOOT | 1 | EACH | \$3.49 | \$3.49 | https://openbuildspartsto re.com/3gt-gt2-3m- timing-belt-by-the-foot/ | NAN | |
| | | | | , | <u> </u> | | | 1 | 1 | | | NAME DATE U HUYNHO6/05/20 TITLE: TRANS | LATIC BOT |

DO NOT SCALE DRAWING

SIZE DWG. NO. SCALE: 1:10 WEIGHT:

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NEXT ASSY

APPLICATION

SHEET 5 OF 36

| | | | | | RI | ILL OF MATERIAL | <u>.</u> | | | | | |
|---------|--------------------------------------|-----------|-----------|------------------|---------------------------|-----------------|----------|------|-----------|-------------------------------|---|---------------------------|
| | | BRAND | | | | SKU NO | | | DOLLARS | QTY X UNIT COST DOLLARS | | |
| ITEM NO | DESCRIPTION | UNIT SIZE | MFGR | MFGR PART NO. | SOURCE VENDOR | PART NO | QTY | UM | UNIT COST | EXTENDED COST | SPEC SHEET | NOTES |
| 2M | V SLOT 20X80X500 LINEAR RAIL | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 165-LP | 1 | EACH | \$12.99 | \$12.99 | https://open buildspartstor e.com/v-slot- 20x80-linear- rail/ | MODIFY PART SEE ITEM 9 |
| 2N | XLARGE C- BEAM GANTRY PLATE | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 2030 | 1 | EACH | \$14.99 | \$14.99 | https://open buildspartstor e.com/xlarge -c-beam- gantry-plate/ | NAN |
| 3 | XLARGE C BEAM GANTRY PLATE | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 2030 | 1 | EACH | \$14.99 | \$14.99 | https://open buildspartstor e.com/xlarge -c-beam- gantry-plate/ | NAN |
| 4 | NEMA 23 MOTOR | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 518 | 3 | EACH | \$27.99 | \$83.97 | https://open buildspartstor e.com/nema -23-stepper- motor/ | NAN |
| 5 | M5 X 45 MM HEX SCREWS | 50 PACK | MEWUDECOR | NAN | AMAZON | B07PPYNQC | 1 | EACH | \$10.99 | \$10.99 | https://www. amazon.com /gp/product/ B07PPPYNQC /ref=ppx_yo_ dt_b_asin_titl e_007_s00?ie =UTF8&psc=1 | NAN |

| | | | | | | BI | LL OF MATERIALS | 5 | | | QTY X UNIT | | |
|------|------|------------------------------------|------------|------------------------|--------------|---------------------------|-----------------|-----|------|-----------|-----------------------------|---|-------|
| | | | BRAND | \ | MFGR PART | SOURCE | SKU NO | | | DOLLARS | COST DOLLARS EXTENDED | | \ |
| IIEN | M NO | DESCRIPTION | UNIT SIZE | MFGR | NO. | VENDOR | PART NO | QTY | UM | UNIT COST | COST | https://www. amazon.com | NOTES |
| | 6 | M5 FLAT WASHERS | 50 PACK | MONSTERBOL TS STORE | NAN | AMAZON | B0844MSWZ6 | 1 | EACH | \$3.72 | \$3.72 | /gp/product/B0844MSWZ6/ref=ppx_yo_dt_b_asin_title_o03_s00?ie=UTF8&th=1 | NAN |
| | | | | | | | | | | | | https://www. amazon.com /TOPINSTOCK - Stainless- | |
| | 7 | M5 10MM SCREW | PACK OF 50 | TOPINSTOCK | FT16003-M510 | AMAZON | B0727TKX8X | 1 | EACH | \$7.99 | \$7.99 | Steel-Button-Socket/dp/B0727TKX8X/ref=sr_1_1?dchild=1&keywords=B0727TKX8X&qid=1590389853&sr=8-1 | NAN |
| | 8 | M5 NUT | PACK OF 25 | PRIMELINE STORE | 9120324 | AMAZON | B07CDZMXYR | 1 | EACH | \$4.19 | \$4.19 | https://www. amazon.com /gp/product/ B07CDZMXYR /ref=ppx_yo_ dt_b_asin_titl e_009_s00?ie =UTF8&psc=1 | NAN |
| | 9 | V SLOT 20X80X400 LINEAR RAIL | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 165-LP | 1 | EACH | \$12.99 | \$12.99 | https://openb uildspartstore. com/v-slot- 20x80-linear- rail/ | NAN |
| • | 10 | M5 T NUT ALUMINUM EXTRUSION | PACK OF 25 | NAN | NAN | AMAZON | B018Y7NJ08 | 1 | EACH | \$7.75 | \$7.75 | https://www. amazon.com /gp/product/ B018Y7NJ08/r ef=ppx_yo_dt _b_asin_title_ o00_s00?ie=U TF8&th=1 | NAN |

| | | | | | BI | LL OF MATERIALS | | | | | | |
|--------|---|--------------------|---------------------------|---------------------|---------------------------|----------------------|-----|------|--------------------|---|---|----------|
| TEM NO | DESCRIPTION OX PLATE SET | BRAND UNIT SIZE | MFGR | MFGR PART NO. | SOURCE VENDOR | SKU NO PART NO | QTY | UM | DOLLARS UNIT COST | QTY X UNIT COST DOLLARS EXTENDED COST | SPEC SHEET https://bulkm an3d.com/pr | MODIFIE |
| 11 | MODIFIED OX PLATE | EACH | BULKMAN 3D BULKMAN 3D | | BULKMAN 3D BULKMAN 3D | OP0001-2 OP0001-2 | 2 | EACH | \$37.50 \$37.50 | \$75.00 \$75.00 | oduct/op000 1 -2/ https://bulkm an3d.com/pr oduct/op000 1 -2/ | SEE ITEM |
| 13 | M5 20MM SCREW | 10 PACK | MONSTERBOL TS | NAN | AMAZON | B07LCRSFFC | 1 | EACH | \$4.08 | \$4.08 | https://www. amazon.com /gp/product/ B07PPPYNQC /ref=ppx_yo_ dt_b_asin_titl e_o02_s00?ie =UTF8&th=1 | NAN |
| 14 | M5 NYLON INSERTED HEX NUTS | 35 PACK | BINIFIMUX | NAN | AMAZON | B0761189F5 | 1 | EACH | \$5.64 | \$5.64 | https://www. amazon.com /gp/product/ B0761189F5/r ef=ppx_yo_dt _b_asin_title_ o03_s01?ie=U TF8&psc=1 | NIANI |
| 15 | 20X80X1500 LINEAR RAIL IN SLEEK SILVER | EACH | OPENBUILDS PARTS STORE | 225-LP | OPENBUILDS PARTS STORE | 225-LP | 1 | EACH | \$37.99 | \$37.99 | https://open buildspartstor e.com/v-slot- 20x80-linear- rail/ | |
| 16 | 20X80X1120 LINEAR RAIL IN SLEEK SILVER | EACH | OPENBUILDS PARTS STORE | 225-LP | OPENBUILDS PARTS STORE | | 1 | EACH | \$37.99 | \$37.99 | https://open buildspartstor e.com/v-slot- 20x80-linear- rail/ | NAN |
| 17 | 3GT (GT2 - 3M) TIMING BELT | FOOT | OPENBUILDS PARTS STORE | 626-BY-THE- FOOT | OPENBUILDS PARTS STORE | 626-BY-THE- FOOT | 10 | EACH | \$3.49 | \$34.90 | https://open buildspartstor e.com/3gt- gt2-3m- timing-belt- by-the-foot/ | NAN |

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USED ON

APPLICATION

NEXT ASSY

TRANSLATION ROBOT SIZE DWG. NO. SCALE: 1:10 WEIGHT: SHEET 8 OF 36

INTERPRET GEOMETRIC TOLERANCING PER:

DO NOT SCALE DRAWING

MATERIAL

| | 8 | 7 | | 6 | | 5 | | 4 | | 3 | | 2 | 1 | |
|---|---------------|--|----------------|---------------|------------------|---------------------------|-----------------|-----|------|---|--|--|-------------------|-------------------|
| | | | | | | | | | | | | | | |
| | | | | | | ВІ | LL OF MATERIALS | | | | OTV V LINIT | | | |
| D | | | | | | | | | | | QTY X UNIT COST | | | D |
| | | | BRAND | | | | SKU NO | | | DOLLARS | DOLLARS | | | |
| | ITEM NO | DESCRIPTION | UNIT SIZE | MFGR | MFGR PART NO. | SOURCE VENDOR | PART NO | QTY | UM | UNIT COST | EXTENDED COST | SPEC SHEET | NOTES | |
| C | 18 | 3GT (GT2-3M) TIMING PULLEY 20 TEETH | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 830 | 1 | EACH | \$7.99 | \$7.99 | https://open buildspartstor e.com/3gt- gt2-3m- timing-pulley- 20-tooth/ | NAN | C |
| | 19 | 6MM ALUMINUM SPACERS | 10 PACK | NAN | NAN | OPENBUILDS PARTS STORE | 90-PACK | 1 | EACH | \$3.39 | \$3.39 | https://open buildspartstor e.com/alumi num-spacers- 10-pack/ | NAN | |
| | 20 | XTREME SOLID V WHEEL KIT | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 465 | 6 | EACH | \$6.99 | \$41.94 | https://open buildspartstor e.com/xtrem e-solid-v- wheel-kit/ | NAN | |
| B | 21 | M5 X 30 MM HEX SCREW | 50 PACK | MEWUDECOR | NAN | AMAZON | B07NVD3DV6 | 1 | EACH | \$9.49 | \$9.49 | https://www.amazon.com /M5-0-8-Button-Socket-Stainless-Quantity/dp/B07NVD3DV6/ref=sr_1_1?dchild=1&keywords=M5%2BX%2B25%2BMM%2BHEX&qid=159078433&sr=8-1&th=1 | NAN | B |
| A | | | | | | | | | | PROPRIETARY AND THE INFORMATION COL DRAWING IS THE SOLE INSERT COMPANY NA REPRODUCTION IN PAR WITHOUT THE WRITTEN IS ENDERT COMPANY NA | NTAINED IN THIS PROPERTY OF ME HERE>. ANY RT OR AS A WHOLE PERMISSION OF NEXT ASSY USE | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: FRACTIONAL± ANGULAR: MACH± BEND± TWO PLACE DECIMAL± THREE PLACE DECIMAL± MFG APPR. INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL D ON FINISH | SIZE DWG. NO. | SLATION DBOT |
| | SOLIDWORKS Ed | lucational Product. | For Instructio | nal Use Only. | | 5 | | 4 | | | ME HERE> IS APPLICATION | DO NOT SCALE DRAWING | SCALE: 1:10 WEIGH | HT: SHEET 9 OF 36 |

| | | | | | | 1 | | 1 | | ~T\/ \/ | | |
|---------|--|-----------|---------------------------|------------------|---------------------------|------------|-----|------|-----------|--------------------|--|---------------------------------|
| | | · | | | | | | | | QTY X UNIT COST | | |
| | | BRAND | | AAECD DA DT | COLIDCE | SKU NO | | | DOLLARS | DOLLARS | | |
| EM NO D | DESCRIPTION | UNIT SIZE | MFGR | MFGR PART NO. | SOURCE VENDOR | PART NO | QTY | UM | UNIT COST | EXTENDED COST | SPEC SHEET | NOTES |
| 22 L | 20X60X500 LINEAR RAIL IN SLEEK SILVER | EACH | OPENBUILDS PARTS STORE | 160-LP | OPENBUILDS PARTS STORE | 160-LP | 2 | EACH | \$9.99 | \$19.98 | https://open buildspartstor e.com/v-slot- 20x60-linear- rail/ | MODIFIED PART SEE ITEM 32 |
| 23 | HAMMER HEAD ASTENER NUT | 100 PACK | POWLANKOU | NAN | AMAZON | B07SDD7PN | 1 | EACH | \$7.99 | \$7.99 | https://www.amazon.com/gp/product/B07SDD7PNN/ref=ppx_yo_dt_b_asin_title_07_s00?ie=UTF8&th=1 | NAN |
| 24 | GUSSET BRACKET | 25 PACK | NAN | NAN | AMAZON | B0192F98HO | 2 | EACH | \$13.83 | \$27.66 | https://www. amazon.com /gp/product/ B0192F98HO/r ef=ppx_yo_dt _b_asin_title_ o08_s02?ie=U TF8&th=1 https://www. | NAN |
| 25 A | M5 T NUT ALUMINUM EXTRUSION | 25 PACK | NAN | NAN | AMAZON | B018Y7NJ08 | 1 | EACH | \$7.75 | \$7.75 | amazon.com /gp/product/ B018Y7NJ08/r ef=ppx_yo_dt _b_asin_title_ 000_s00?ie=U TF8&th=1 | NAN |
| 26 M. | 15-0.8 X 8MM HEX SCREW | 100 PACK | MEWUDECOR | NAN | AMAZON | B084MMND2L | 1 | EACH | \$9.49 | \$9.49 | https://www. amazon.com /M5-0-8- Button- Socket-Stainl ess- Quantity/dp/ B084MMND2L /ref=sr_1_6?d child=1&key words=M5+X+ 8MM+HEX&qi d=159078513 6&sr=8-6 | |

| | | | | | | | | | | QTY X UNIT COST | | |
|---------|---|-------------|---------------------------|------------------|---------------------------|----------|-----|------|-----------|--------------------|---|--------------------------------|
| | | BRAND | | | | SKU NO | | | DOLLARS | DOLLARS | | |
| ITEM NO | DESCRIPTION | unit size | MFGR | MFGR PART NO. | SOURCE VENDOR | PART NO | QTY | UM | UNIT COST | EXTENDED COST | SPEC SHEET | NOTES |
| 27 | 20X60X1500 LINEAR RAIL IN SLEEK SILVER | EACH | OPENBUILDS PARTS STORE | 220 I B | OPENBUILDS PARTS STORE | 220-LP | 1 | EACH | \$29.49 | | https://open buildspartstor e.com/v-slot- 20x60-linear- rail/ | MODIFIED PART SEE ITEM 2 |
| 28 | 6061 ALUMINUM 90 DEGREE ANGLE | 4 FT LENGTH | MCMASTER CARR | 8982K16 | MCMASTER CARR | 8982K16 | 1 | EACH | \$21.25 | \$21.25 | https://www. mcmaster.co m/catalog/1 2 6/3897 | MODIFIED PART SEE ITEM 3 |
| 29 | 20X60X1120 LINEAR RAIL IN SLEEK SILVER | EACH | OPENBUILDS PARTS STORE | 220-LP | OPENBUILDS PARTS STORE | 220-LP | 1 | EACH | \$29.49 | \$29.49 | https://open buildspartstor e.com/v-slot- 20x60-linear- rail/ | NAN |
| 30 | 6061 ALUMINUM 90 DEGREE ANGLE X 1120 MM | 4 FT LENGTH | MCMASTER CARR | 8982K16 | MCMASTER CARR | 8982K16 | 1 | EACH | \$21.25 | \$21.25 | https://www. mcmaster.co m/catalog/1 2 6/3897 | NAN |
| 31 | 20X60X500 LINEAR RAIL IN SLEEK SILVER | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 160-LP | 4 | EACH | \$9.99 | \$39.96 | https://open buildspartstor e.com/v-slot- 20x60-linear- rail/ | MODIFIED PART SEE ITEM 3 |
| 32 | 20X60X500 LINEAR RAIL IN SLEEK SILVER | EACH | NAN | NAN | OPENBUILDS PARTS STORE | 160-LP | 2 | EACH | \$9.99 | \$19.98 | https://open buildspartstor e.com/v-slot- 20x60-linear- rail/ | |
| 33 | TSLOT FRAMING 90 DEG SURFACE BRACKET | EACH | NAN | NAN | MCMASTER CARR | 5537T966 | 2 | EACH | \$24.98 | \$49.96 | https://www. mcmaster.co m/catalog/1 26/2054 | NAN |
| 34 | TALL GUSSETED INSIDE CORNER BRACKET | EACH | NAN | NAN | 80/20 | 4136 | 2 | EACH | \$5.65 | \$11.30 | https://8020.n et/4136.html | NAN |

UNLESS OTHERWISE SPECIFIED:

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

USED ON

PROPRIETARY AND CONFIDENTIAL

NEXT ASSY

DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±
MFG APPR.

Kieu Huynh06/05/20

TRANSLATION ROBOT

SHEET 11 OF 36

SIZE DWG. NO.

SCALE: 1:10 WEIGHT:

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