

GUAVA CONTROLLER BOX INTERNAL/EXTERNAL WIRING & CABLES

| Type | Description | Spec / Details | MFG | MFG Part No | DiGiKEY Part No | Qty / Mach | Qty Order |
|-------------------|------------------------|--|----------|-----------------|-------------------|------------|-----------|
| Connector | Receptacle | 14-POS, panel mount w. brass inserts | TE Conn. | 211103-1 | A106308-ND | 4 | 3200 |
| Pin/ Socket | Socket | 20-24 AWG Tin Sockets for Receptacle, <u>Tape reel of 4000</u> | TE Conn. | 1-66331-4 | A31995TR-ND | 48 | 10 |
| | | 20-24 AWG Tin Sockets for Receptacle | TE Conn. | 1-66399-0 | A31995-ND | 48 | 2300 |
| *Connector | Plug | 14-POS, free hanging | TE Conn. | 206044-1 | A1358-ND | 3 | 2400 |
| *Pin/ Socket | Pin | 20-24 AWG Tin Pin for Plug, <u>Tape reel of 4000</u> | TE Conn. | 1-66106-5 | A31991TR-ND | 36 | 8 |
| | | 20-24 AWG Tin Pin for Plug | TE Conn. | 1-66103-8 | A31989-ND | 36 | 2000 |
| *Str Relief | Straight Housing | Cable Clamp for 14-Pos; 0.453" opening | TE Conn. | 206070-8 | A32516-ND | 2 | 1650 |
| *Str Relief | 90 Deg Housing | -----//-----; 0.453" opening; full cover | TE Conn. | 1546349-2 | A33754-ND | 1 | 750 |
| | | | | | | | |
| Connector | Receptacle | 4-POS, panel mount w. brass inserts | TE Conn. | 211102-1 | A25053-ND | 1 | 1001 |
| Pin/ Socket | Socket | 14-18 AWG Tin Sockets for Receptacle, <u>Tape reel of 4000</u> | TE Conn. | 1-66358-6 | A31997TR-ND | 2 | 1 |
| | | 14-18 AWG Tin Sockets for Receptacle | TE Conn. | 1-66360-2 | A31997-ND | 2 | 100 |
| Pin/ Socket | Socket | 20-24 AWG Tin Sockets for Receptacle | TE Conn. | 1-66399-0 | A31995-ND | 2 | |
| *Connector | Plug | 4-POS, free hanging | TE Conn. | 206429-1 | A1357-ND | 1 | 1001 |
| *Pin/ Socket | Pin | 14-18 AWG Tin Pin for Plug, <u>Tape reel of 4000</u> | TE Conn. | 1-66359-4 | A31998TR-ND | 2 | 1 |
| | | 14-18 AWG Tin Pin for Plug | TE Conn. | 1-66361-2 | A31998-ND | 2 | 110 |
| *Pin/ Socket | Pin | 20-24 AWG Tin Pin for Plug | TE Conn. | 1-66103-8 | A31989-ND | 2 | |
| *Str Relief | Straight Housing | Cable Clamp for 4-Pos; 0.329" opening | TE Conn. | 1-206062-5 | A104910-ND | 1 | 1001 |
| | | | | | | | |
| Connector | Receptcl/Socket | D-Sub RCPT 25POS IDC | 3M | 8350-7005 | 3M15414-ND | 1 | 1001 |
| * | Plug | D-Sub Plug 25POS IDC | 3M | 8225-8000 | 3M15408-ND | 1 | 1001 |
| *Str Relief | Back Shell | Backshell DB25 Flat Ribbon - Gray | Norcomp | 976-025-010R031 | 976-25RPE-ND | 1 | 750 |
| Cable | Flat Ribbon Cable | 25Cond Ribbon LT GRY 100FT (16cm) | 3M | HF365/25SF | MD25R-100-ND | 1 | 4 |

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|-------------------|-----------------------|---|--------------|--------------------|------------------------|------------------|------------------|
| Switch | Micro Limit SW | Switch SIM Roll SPDT 3A 125V | Omron | SS-3GL13PT | SW768-ND | 3 | 2300 |
| Connector | LCD Con Housing | 8-POS .100 Dual (Black) | Molex | 22-55-2081 | WM2521-ND | 1 | 1001 |
| Connector | LCD Con Housing | 20-POS .100 Dual (Black) | Molex | 22-55-2201 | WM2527-ND | 1 | 1001 |
| Connector | LCD Socket | IDC 10POS Dual 30AU | FCI | 71600-010LF | 609-1739-ND | 2 | 1500? |
| Connector | Thermistor/switch | Connector Housing 2POS .100 W/Latch | Molex | 0050579452 | WM2900-ND | 10 | 7500 |
| Connector | Motor Conn | Connector Housing 4POS .100 W/Latch | Molex | 0050579404 | WM2902-ND | 11 | 8500 |
| Connector | Switch Conn | Connector Housing 3POS .100 W/Latch | Molex | 0050579403 | WM2901-ND | 3 | 2200 |
| * Connector | Housing | Conn Housing Male 2POS .100 | Molex | 0701070001 | WM2533-ND | 5 | 3700 |
| * Connector | Housing | Conn Housing Male 4POS .100 | Molex | 0701070003 | WM2535-ND | 6 | 4500 |
| Connector | Socket/ Female | Conn. Term Female 22-24AWG Tin | Molex | 0016020102 | WM2510-ND | 86 | 5000 |
| | | Connector Term Female 22-24AWG Tin Tape reel of 20,000 | Molex | 0016020086 | WM2510TR-ND | 86 | 3 |
| Connector | Pin/ Male | Conn Term Male Pin 24-30AWG Tin | Molex | 0016020108 | WM2565-ND | 8 | 1000 |
| | | Conn Term Male Pin 24-30AWG Tin Tape reel of 20,000 | Molex | 0016020105 | WM2565TR-ND | 8 | 1 |
| Terminal | Switch connect | Conn Recept Faston 22-26AWG .110 | TE Conn. | 7-520366-2 | A27793-ND | 6 | 4800 |
| Terminal | 24V Pwr Switch | Conn Fast Receptacle14-16 AWG .250 | TE Conn. | 3-350820-2 | A27824-ND | 5 | 4000 |
| Terminal | Grounding | Term Ring Non Ins 26-22AWG #4 | Panduit | P22-4R-M | 298-10067-ND | 4 | 3200 |
| Switch | Power Switch | Switch Rocker DPST 20A 125V | E-Switch | R5ABLKBLKFF0 | EG1529-ND | 1 | 800 |
| | (2nd Source) | Switch Rocker DPST 16A 125V | Cherry | WRG32F2FBBNN | CH784-ND | | |
| Wire/Cable | Motor Power | Shielded 4Cond 22AWG / 100Ft | Gen Cable | C07623.12.10 | W504-100-ND | | |
| | | Shielded 4Cond 22AWG / 500 ft | | | W504-500-ND | | 1 |
| | | Shielded 4Cond 22AWG / 1000 ft | | | W504-1000-ND | | 7 |
| Wire | Bed Heat Power | 16AWG Stranded – Violet – 100 ft | Gen Cable | C2065A.12.19 | C2065V-100-ND | | |
| | | 16AWG Stranded – Violet – 1000 ft | Gen Cable | C2065A.12.19 | C2065V-1000-ND | | 2 |
| Wire | Bed Thermistor | 24AWG Stranded – Yellow – 100 ft | Gen Cable | C2015A.12.05 | C2015Y-100-ND | | |
| Type | Description | Spec / Details | MFG | MFG Part No | DiGiKEY Part No | Qty/ Mach | Qty Order |
| | | 24AWG Stranded – Yellow – 1000 ft | Gen Cable | C2015A.21.05 | C2015Y-1000-ND | | 4 |
| Wire | Extrd Power (2) | 24AWG Stranded – Red – 100 ft | Gen Cable | C2015R.12.03 | C2015R-100-ND | | |

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|------|--------------------|------------------------------------|-----------|--------------|----------------|--|----|
| | | 24AWG Stranded – Red – 1000 ft | Gen Cable | C2015R.21.03 | C2015R-1000-ND | | 11 |
| Wire | Extrd Thermist (2) | 24AWG Stranded – Orange – 100 ft | Gen Cable | C2015A.12.04 | C2015A-100-ND | | |
| | | 24AWG Stranded – Orange – 1000 ft | Gen Cable | C2015A.21.04 | C2015A-1000-ND | | 7 |
| Wire | Extrd Fan (2) | 24AWG Stranded – Red – 100 ft | Gen Cable | C2015R.12.03 | C2015R-100-ND | | |
| | | 24AWG Stranded – Red – 1000 ft | Gen Cable | C2015R.21.03 | C2015R-1000-ND | | |
| Wire | | 24AWG Stranded – Black – 100 ft | Gen Cable | C2015A.12.01 | C2015B-100-ND | | |
| | | 24AWG Stranded – Black – 1000 ft | Gen Cable | C2015A.21.01 | C2015B-1000-ND | | 12 |
| Wire | Extrd Motor (2) | Same as Motor Power Wire - 90 mm | | | | | |
| Wire | 24VDC | 16AWG Stranded – Red – 100 ft | Gen Cable | C2065A.12.03 | C2065R-100-ND | | |
| | | 16AWG Stranded – Red – 1000 ft | Gen Cable | C2065A.21.03 | C2065R-1000-ND | | 2 |
| Wire | 24VDC Common | 16AWG Stranded – Yellow – 100 ft | Gen Cable | C2065A.12.05 | C2065Y-100-ND | | 2 |
| | | 16AWG Stranded – Yellow – 1000 ft | Gen Cable | C2065A.21.05 | C2065Y-1000-ND | | |
| Wire | Z-Right Motor | Same as Motor Power Wire - 18.5 mm | | | | | |
| | Z- Left Motor | Same as Motor Power Wire - 185 mm | | | | | |
| Wire | Z- Switch | 24AWG Stranded – White – 100 ft | Gen Cable | C2015A.12.02 | C2015W-100-ND | | |
| | | 24AWG Stranded – White – 1000 ft | Gen Cable | C2015A.21.02 | C2015W-1000-ND | | 8 |
| Wire | | 24AWG Stranded – Black – 100 ft | Gen Cable | C2015A.12.01 | C2015B-100-ND | | |
| | | 24AWG Stranded – Black – 1000 ft | Gen Cable | C2015A.21.01 | C2015B-1000-ND | | |
| Wire | X- Motor | Same as Motor Power Wire - 180 mm | | | | | |
| Wire | X- Switch | 24AWG Stranded – White – 100 ft | Gen Cable | C2015A.12.02 | C2015W-100-ND | | |
| | | 24AWG Stranded – White – 1000 ft | Gen Cable | C2015A.21.02 | C2015W-1000-ND | | |
| Wire | | 24AWG Stranded – Black – 100 ft | Gen Cable | C2015A.12.01 | C2015B-100-ND | | |
| | | 24AWG Stranded – Black – 1000 ft | Gen Cable | C2015A.21.01 | C2015B-1000-ND | | |
| Wire | Y- Motor | Same as Motor Power Wire - 200 mm | | | | | |
| Wire | X- Switch | 24AWG Stranded – White – 100 ft | Gen Cable | C2015A.12.02 | C2015W-100-ND | | |
| | | 24AWG Stranded – White – 1000 ft | Gen Cable | C2015A.21.02 | C2015W-1000-ND | | |
| | | | | | | | |
| Wire | | 24AWG Stranded – Black – 100 ft | Gen Cable | C2015A.12.01 | C2015B-100-ND | | |
| | | 24AWG Stranded – Black – 1000 ft | Gen Cable | C2015A.21.01 | C2015B-1000-ND | | |

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|---------------|-------------------|--|---------|------------|-------------|---|------|
| TB | Power Plug | Term Block Plug 6POS STR 5.08MM | Molex | 39530-0006 | WM7822-ND | 1 | 1001 |
| TB | Heat & Fan | Term Block Plug 2POS STR 5.08MM | Molex | 39530-0002 | WM7819-ND | 5 | 3800 |
| * Wire Tubing | Corrugated Tubing | TUBING CORRUGATED LOOM .25"X100' - BLACK | Panduit | CLT25F-C20 | 298-1141-ND | 1 | |
| | | | | | | | |

* Part not internal to the box

PARTS Can only order from MOUSER & McMASTER-CARR

| Type | Description | Spec / Details | MFG | MFG Part No | MOUSER ELEC. | Qty/ Mach | Qty Order |
|-----------------|--|--|---------|--------------|-----------------------------------|--------------|--------------|
| Connector | Heat Bed Conn. Housing | Heavy Duty Power Connectors PP15/45 HOUSING ONLY - BLACK | | | 879-1327G6-BK (Mouser Part no) | 2 | 1500 |
| Connector | Heat Bed Conn, Terminal | Heavy Duty Power Connectors PP15 #16-20 AWG CONT LOW DETENT | | | 879-1332-BK (Mouser Part No) | 2 | 1500 |
| *Cable | LCD External Flat Cable | Flat Cables .050" 10C Shielded Black 28AWG Stranded | 3M | 3517/10-1005 | 517-3517/10 | 68cm | 17 |
| Type | Description | Spec / Details | MFG | MFG Part No | McMaster-Carr | Qty/ Mach | |
| * Shrink Tubing | Motor EMI Tubing | EMI/RFI-Shield Heat-Shrink Tubing 3/16" ID Before, 3/32" ID After - 48" Length, Black. | | | 7937K21 | | |
| Standoff | 4-40 Screw Size Hex Standoff | Aluminum Male-Female Threaded Hex Standoff, 3/16" Hex, 3/16" Length, | | | 93505A853 – Screw Size 4-40 | 2 | 1500 |
| * Wire Tubing | Corrg. Sleeving Guava 2 nd Extrdr | TUBING CORRUGATED LOOM .25"X100' – BLUE, 1/4", 100ft | Panduit | | 7700K141 | | 4** |
| * Wire Tubing | Corrg. Sleeving Pre-Guava 2 nd Extrdr | TUBING CORRUGATED LOOM .25"X100' – BLUE, 3/8", 100ft | Panduit | | 7700K181 | | 2** |

* Part not internal to the box

** Assumption: 100 Guava dual extruder demand & 50 Pre-Guava dual extruder demand

TOOLS

| Type | Description | Spec / Details | MFG | MFG Part No | DiGiKEY Part No | Qty/ Mach | Qty Order |
|------------|-------------------|----------------------------------|----------|-------------|-----------------|--------------|--------------|
| Hand Tool | Crimp Tool | TOOL CRIMPER RATCHETING 16-24AWG | TE Conn. | 91505-1 | A9841-ND | | |
| Hand Tool | Insertion Tool | TOOL INSERTION CPC CONTACTS | TE Conn. | 200893-2 | 200893-2-ND | | |
| Hand Tool | Extraction Tool | CONTACT EXTRACTION TOOL | TE Conn. | 305183 | A1329-ND | | |
| Bench Tool | Applicator | (TBD) | | | | | |
| Bench Tool | Flat C/Conn Press | HAND PRESS BENCH MOUNT | PanaVise | 502 | 502PV-ND | | |
| | | HAND PRESS IDC CONVERSION KIT | PanaVise | 506 | 506PV-ND | | |
| | | BASE PLATE SOCKET IDC | PanaVise | 510 | 510PV-ND | | |
| | | | | | | | |
| Hand Tool | Crimp Tool | TOOL CRIMP CGRD KK MICROFIT SPOX | Molex | 0640160201 | WM17552-ND | | |
| Hand Tool | Insertion Tool | TOOL HAND INSERTION | Molex | 0011020022 | WM9911-ND | | |
| Hand Tool | Extraction Tool | TOOL HAND EXTRACTION | Molex | 0011030036 | WM1032-ND | | |
| Bench Tool | Applicator | TOOL APPLICATOR 22-24AWG CRIMP | Molex | 0639023200 | WM6338-ND | | |
| | | | | | | | |
| Hand Tool | Pwr SW Terminal | HAND CRIMP TOOL/FASTOS(W/O DIES) | TE Conn. | 58078-3 | A28005-ND | | |
| | Dies | DIE SET ULTRA-FASTONS 16-14 AWG | TE Conn. | 90391-3 | A28008-ND | | |
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