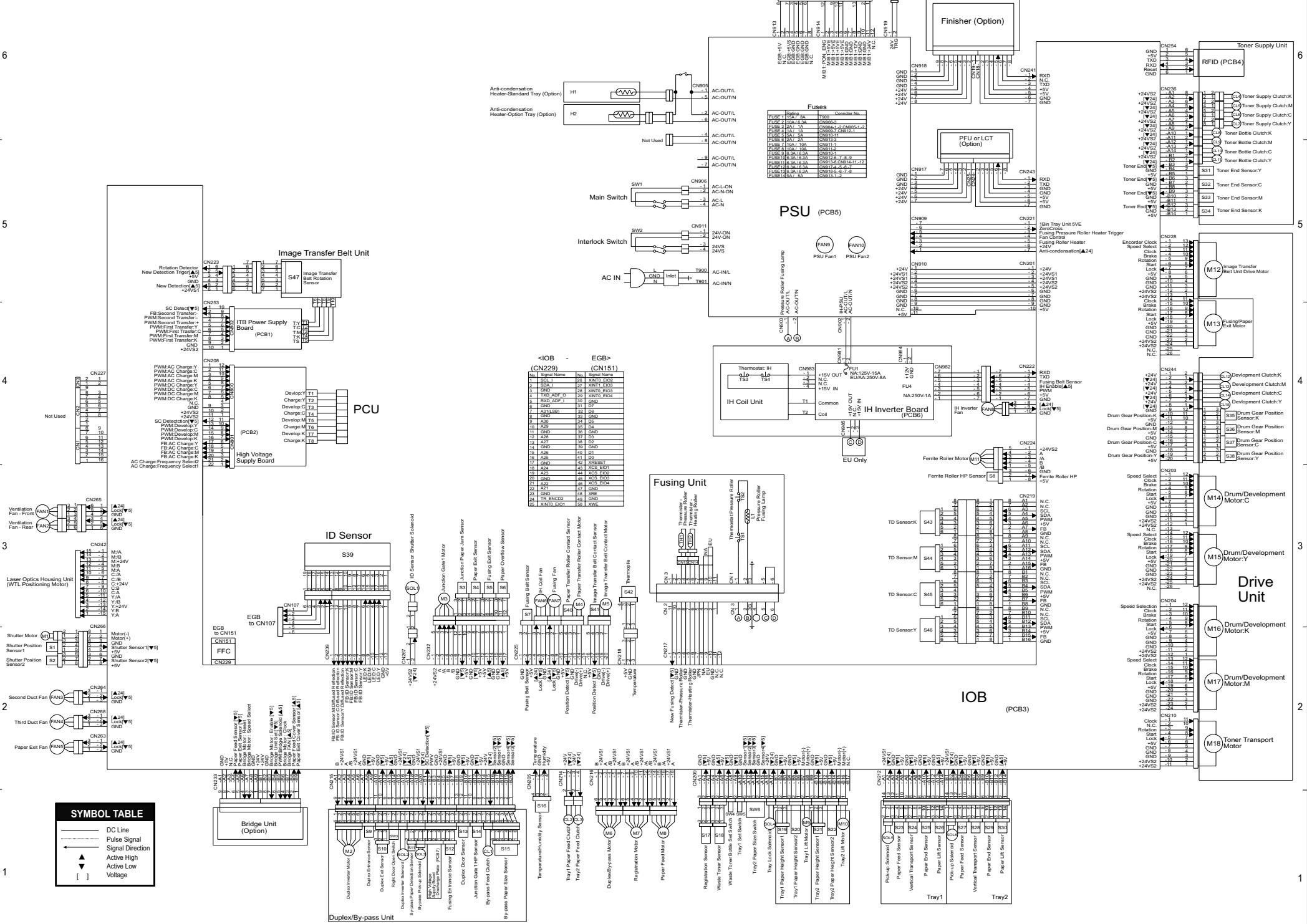


G133 POINT TO POINT DIAGRAM (1/2)



A G133 POINT TO POINT DIAGRAM (2/2)

| <T101 Option I/F> (CN117) | | <RIOS> (CN109,110) | |
|------------------------------|------|-----------------------|------------|
| 1 GND | Name | 1 GND | Name(R2) |
| 2 GND | | 2 INTA_SLR | |
| 3 VREF | | 3 +5V | |
| 4 VDD_DC | | 4 RESERVED | 4 RESERVED |
| 5 SP1_CSB# | | 5 GND | |
| 6 SP1_ADRIN | | 6 INTB_SLR | |
| 7 SP1_CS# | | 7 GND | |
| 8 SP1_D0# | | 8 GND | |
| 9 GND | | 9 GND | |
| 10 SP1_GND | | 10 PC4_SLR | |
| 11 SP1_I2C# | | 11 NC(SREGM) | |
| 12 SP2_DOUT# | | 12 GNT_SLR | |
| 13 SP2_CS# | | 13 GND | |
| 14 SP2_D0# | | 14 INTA_SLR | |
| 15 SP2_DIN | | 15 GND | |
| 16 SP2_DOUT# | | 16 PC4_SLR | |
| 17 SP2_GND | | 17 AD31 | |
| 18 P02 | | 18 AD30 | |
| 19 NC(SREGD) | | 19 PC4_SLR | |
| 20 RESET# | | 20 AD29 | |
| 21 SP2_CS# | | 21 AD27 | |
| 22 VCC | | 22 GND | |
| 23 UDC_CLK | | 23 GND | |
| 24 UDC_DATA | | 24 AD26 | |
| 25 P03 | | 25 AD24 | |
| 26 P04 | | 26 C_B8 | |
| 27 VCC_SPI | | 27 C_B8I | |
| 28 ESEL_SLR | | 28 ESEL_SLR | |
| 29 GND | | 29 GND | |

EGB(CN100) - CTL(CN100)

| No. | Name | No. | Name | No. | Name | No. | Name | No. | Name |
|-----|-------------|-----|-------------|-----|------|-----|------|-----|------|
| 1 | GND | 1 | GND | 101 | +5V | 102 | +5V | 103 | +5V |
| 2 | INTA_SLR | 2 | INTA_SLR# | 104 | +5V | 105 | +5V | 106 | +5V |
| 3 | +5V | 3 | +5V | 107 | +5V | 108 | +5V | 109 | +5V |
| 4 | RESERVED | 4 | RESERVED | 110 | +5V | 111 | +5V | 112 | +5V |
| 5 | GND | 5 | GND | 113 | +5V | 114 | +5V | 115 | +5V |
| 6 | INTB_SLR | 6 | INTB_SLR# | 116 | +5V | 117 | +5V | 118 | +5V |
| 7 | GND | 7 | GND | 119 | +5V | 120 | +5V | 121 | +5V |
| 8 | +5V | 8 | +5V | 122 | +5V | 123 | +5V | 124 | +5V |
| 9 | GND | 9 | GND | 125 | +5V | 126 | +5V | 127 | +5V |
| 10 | PC4_SLR | 10 | PC4_SLR# | 128 | +5V | 129 | +5V | 130 | +5V |
| 11 | NC(SREGM) | 11 | PC4_SLR# | 131 | +5V | 132 | +5V | 133 | +5V |
| 12 | GNT_SLR | 12 | GNT_SLR# | 134 | +5V | 135 | +5V | 136 | +5V |
| 13 | SP2_DOUT# | 13 | GND | 137 | +5V | 138 | +5V | 139 | +5V |
| 14 | SP2_CS# | 14 | SP2_CS# | 140 | +5V | 141 | +5V | 142 | +5V |
| 15 | SP2_D0# | 15 | GND | 143 | +5V | 144 | +5V | 145 | +5V |
| 16 | SP2_DIN | 16 | SP2_DIN | 146 | +5V | 147 | +5V | 148 | +5V |
| 17 | AD31 | 17 | AD31 | 149 | +5V | 150 | +5V | 151 | +5V |
| 18 | AD30 | 18 | AD30 | 152 | +5V | 153 | +5V | 154 | +5V |
| 19 | PC4_SLR | 19 | PC4_SLR# | 155 | +5V | 156 | +5V | 157 | +5V |
| 20 | AD29 | 20 | AD29 | 158 | +5V | 159 | +5V | 160 | +5V |
| 21 | AD27 | 21 | AD27 | 161 | +5V | 162 | +5V | 163 | +5V |
| 22 | GND | 22 | GND | 164 | +5V | 165 | +5V | 166 | +5V |
| 23 | GND | 23 | GND | 167 | +5V | 168 | +5V | 169 | +5V |
| 24 | AD26 | 24 | AD26 | 170 | +5V | 171 | +5V | 172 | +5V |
| 25 | AD24 | 25 | AD24 | 173 | +5V | 174 | +5V | 175 | +5V |
| 26 | P03 | 26 | P03 | 176 | +5V | 177 | +5V | 178 | +5V |
| 27 | C_B8 | 27 | C_B8I | 179 | +5V | 180 | +5V | 181 | +5V |
| 28 | PC4_SLR | 28 | PC4_SLR# | 182 | +5V | 183 | +5V | 184 | +5V |
| 29 | GND | 29 | GND | 185 | +5V | 186 | +5V | 187 | +5V |
| 30 | PC4_SLR | 30 | PC4_SLR# | 188 | +5V | 189 | +5V | 190 | +5V |
| 31 | GND | 31 | GND | 191 | +5V | 192 | +5V | 193 | +5V |
| 32 | PC4_SLR | 32 | PC4_SLR# | 194 | +5V | 195 | +5V | 196 | +5V |
| 33 | GND | 33 | GND | 197 | +5V | 198 | +5V | 199 | +5V |
| 34 | AD19 | 34 | AD19 | 200 | +5V | 201 | +5V | 202 | +5V |
| 35 | PC4_SLR | 35 | PC4_SLR# | 203 | +5V | 204 | +5V | 205 | +5V |
| 36 | AD18 | 36 | AD18 | 206 | +5V | 207 | +5V | 208 | +5V |
| 37 | AD17 | 37 | AD17 | 209 | +5V | 210 | +5V | 211 | +5V |
| 38 | PC4_SLR | 38 | PC4_SLR# | 212 | +5V | 213 | +5V | 214 | +5V |
| 39 | GND | 39 | GND | 215 | +5V | 216 | +5V | 217 | +5V |
| 40 | C_B8 | 40 | C_B8 | 218 | +5V | 219 | +5V | 220 | +5V |
| 41 | PC4_SLR | 41 | PC4_SLR# | 221 | +5V | 222 | +5V | 223 | +5V |
| 42 | IRDY | 42 | IRDY | 224 | +5V | 225 | +5V | 226 | +5V |
| 43 | GND | 43 | GND | 227 | +5V | 228 | +5V | 229 | +5V |
| 44 | IRDY | 44 | IRDY | 230 | +5V | 231 | +5V | 232 | +5V |
| 45 | DEVSEL# | 45 | DEVSEL# | 233 | +5V | 234 | +5V | 235 | +5V |
| 46 | DEVSEL | 46 | DEVSEL | 236 | +5V | 237 | +5V | 238 | +5V |
| 47 | GND | 47 | GND | 239 | +5V | 240 | +5V | 241 | +5V |
| 48 | PC4_SLR | 48 | PC4_SLR# | 242 | +5V | 243 | +5V | 244 | +5V |
| 49 | PC4_SLR | 49 | PC4_SLR# | 245 | +5V | 246 | +5V | 247 | +5V |
| 50 | PWR | 50 | PWR | 248 | +5V | 249 | +5V | 250 | +5V |
| 51 | GND | 51 | GND | 251 | +5V | 252 | +5V | 253 | +5V |
| 52 | C_B8I | 52 | C_B8I | 254 | +5V | 255 | +5V | 256 | +5V |
| 53 | AD15 | 53 | AD15 | 257 | +5V | 258 | +5V | 259 | +5V |
| 54 | GND | 54 | GND | 260 | +5V | 261 | +5V | 262 | +5V |
| 55 | AD13 | 55 | AD13 | 263 | +5V | 264 | +5V | 265 | +5V |
| 56 | AD11 | 56 | AD11 | 266 | +5V | 267 | +5V | 268 | +5V |
| 57 | AD10 | 57 | AD10 | 269 | +5V | 270 | +5V | 271 | +5V |
| 58 | AD9 | 58 | AD9 | 272 | +5V | 273 | +5V | 274 | +5V |
| 59 | AD11 | 59 | AD11 | 275 | +5V | 276 | +5V | 277 | +5V |
| 60 | AD10 | 60 | AD10 | 278 | +5V | 279 | +5V | 280 | +5V |
| 61 | AD9 | 61 | AD9 | 281 | +5V | 282 | +5V | 283 | +5V |
| 62 | AD8 | 62 | AD8 | 284 | +5V | 285 | +5V | 286 | +5V |
| 63 | GND | 63 | GND | 287 | +5V | 288 | +5V | 289 | +5V |
| 64 | C_B8I | 64 | C_B8I | 290 | +5V | 291 | +5V | 292 | +5V |
| 65 | PC4_SLR | 65 | PC4_SLR# | 293 | +5V | 294 | +5V | 295 | +5V |
| 66 | AD8 | 66 | AD8 | 296 | +5V | 297 | +5V | 298 | +5V |
| 67 | AD5 | 67 | AD5 | 299 | +5V | 300 | +5V | 301 | +5V |
| 68 | AD4 | 68 | AD4 | 302 | +5V | 303 | +5V | 304 | +5V |
| 69 | AD3 | 69 | AD3 | 305 | +5V | 306 | +5V | 307 | +5V |
| 70 | +3.3V | 71 | +3.3V | 308 | +5V | 309 | +5V | 310 | +5V |
| 72 | AD1 | 72 | AD1 | 311 | +5V | 312 | +5V | 313 | +5V |
| 73 | AD2 | 73 | AD2 | 314 | +5V | 315 | +5V | 316 | +5V |
| 74 | AD6 | 74 | AD6 | 317 | +5V | 318 | +5V | 319 | +5V |
| 75 | +3.3V | 75 | +3.3V | 320 | +5V | 321 | +5V | 322 | +5V |
| 76 | RESERVED | 76 | RESERVED | 323 | +5V | 324 | +5V | 325 | +5V |
| 77 | +3.3V | 77 | +3.3V | 326 | +5V | 327 | +5V | 328 | +5V |
| 78 | RESERVED | 78 | RESERVED | 329 | +5V | 330 | +5V | 331 | +5V |
| 79 | +3.3V | 79 | +3.3V | 332 | +5V | 333 | +5V | 334 | +5V |
| 80 | RESERVED | 80 | RESERVED | 335 | +5V | 336 | +5V | 337 | +5V |
| 81 | RESERVED | 81 | RESERVED | 338 | +5V | 339 | +5V | 340 | +5V |
| 82 | RESERVED | 82 | RESERVED | 341 | +5V | 342 | +5V | 343 | +5V |
| 83 | 128MHz(+5V) | 83 | 128MHz(+5V) | 344 | +5V | 345 | +5V | 346 | +5V |
| 84 | 128MHz(+5V) | 84 | 128MHz(+5V) | 347 | +5V | 348 | +5V | 349 | +5V |
| 85 | 128MHz(+5V) | 85 | 128MHz(+5V) | 350 | +5V | 351 | +5V | 352 | +5V |
| 86 | RESERVED | 86 | RESERVED | 353 | +5V | 354 | +5V | 355 | +5V |
| 87 | RESERVED | 87 | RESERVED | 356 | +5V | 357 | +5V | 358 | +5V |
| 88 | +24V | 88 | +24V | 359 | +5V | 360 | +5V | 361 | +5V |

<NetWork I/F> (CN103)

| No. | Name | No. | Name | No. | Name | No. | Name |
|-----|---------|-----|------------|-----|---------|-----|----------|
| 1 | +5V | 2 | +5V | 3 | +5V | 4 | +5V |
| 5 | +5V | 6 | +5V | 7 | +5V | 8 | +5V |
| 9 | GND | 10 | GND | 11 | GND | 12 | GND |
| 13 | PC4_SLR | 14 | PC4_SLR# | 15 | PC4_SLR | 16 | PC4_SLR# |
| 17 | PC4_SLR | 18 | PC4_SLR# | 19 | PC4_SLR | 20 | PC4_SLR# |
| 21 | PC4_SLR | 22 | PC4_SLR# | 23 | PC4_SLR | 24 | PC4_SLR# |
| 25 | PC4_SLR | 26 | PC4_SLR# | 27 | PC4_SLR | 28 | PC4_SLR# |
| 29 | PC4_SLR | 30 | PC4_SLR# | 31 | PC4_SLR | 32 | PC4_SLR# |
| 33 | PC4_SLR | 34 | PC4_SLR# | 35 | PC4_SLR | 36 | PC4_SLR# |
| 37 | PC4_SLR | 38 | PC4_SLR# | 39 | PC4_SLR | 40 | PC4_SLR# |
| 41 | PC4_SLR | 42 | PC4_SLR# | 43 | PC4_SLR | 44 | PC4_SLR# |
| 45 | PC4_SLR | 46 | PC4_SLR# | 47 | PC4_SLR | 48 | PC4_SLR# |
| 49 | PC4_SLR | 50 | PC4_SLR# | 51 | PC4_SLR | 52 | PC4_SLR# |
| 53 | PC4_SLR | 54 | PC4_SLR# | 55 | PC4_SLR | 56 | PC4_SLR# |
| 57 | PC4_SLR | 58 | PC4_SLR# | 59 | PC4_SLR | 60 | PC4_SLR# |
| 61 | PC4_SLR | 62 | PC4_SLR# | 63 | PC4_SLR | 64 | PC4_SLR# |
| 65 | PC4_SLR | 66 | PC4_SLR# | 67 | PC4_SLR | 68 | PC4_SLR# |
| 69 | PC4_SLR | 70 | PC4_SLR# | 71 | PC4_SLR | 72 | PC4_SLR# |
| 73 | PC4_SLR | 74 | PC4_SLR# | 75 | PC4_SLR | 76 | PC4_SLR# |
| 77 | PC4_SLR | 78 | PC4_SLR# | 79 | PC4_SLR | 80 | PC4_SLR# |
| 81 | PC4_SLR | 82 | PC4_SLR# | 83 | PC4_SLR | 84 | PC4_SLR# |
| 85 | PC4_SLR | 86 | PC4_SLR# | 87 | PC4_SLR | 88 | PC4_SLR# |
| 89 | PC4_SLR | 90 | PC4_SLR# | 91 | PC4_SLR | 92 | PC4_SLR# |
| 93 | PC4_SLR | 94 | PC4_SLR# | 95 | PC4_SLR | 96 | PC4_SLR# |
| 97 | PC4_SLR | 98 | PC4_SLR# | 99 | PC4_SLR | 100 | PC4_SLR# |
| 101 | PC4_SLR | 102 | PC4_SLR# | 103 | PC4_SLR | 104 | PC4_SLR# |
| 105 | PC4_SLR | 106 | PC4_SLR# | 107 | PC4_SLR | 108 | PC4_SLR# |
| 109 | PC4_SLR | 110 | PC4_SLR# | 111 | PC4_SLR | 112 | PC4_SLR# |
| 113 | PC4_SLR | 114 | PC4_SLR# | 115 | PC4_SLR | 116 | PC4_SLR# |
| 117 | PC4_SLR | 118 | PC4_SLR# | 119 | PC4_SLR | 120 | PC4_SLR# |
| 121 | PC4_SLR | 122 | PC4_SLR# | 123 | PC4_SLR | 124 | PC4_SLR# |
| 125 | PC4_SLR | 126 | PC4_SLR# | 127 | PC4_SLR | 128 | PC4_SLR# |
| 129 | PC4_SLR | 130 | PC4_SLR#</ | | | | |

G133 ELECTRICAL COMPONENT LAYOUT (1/2)

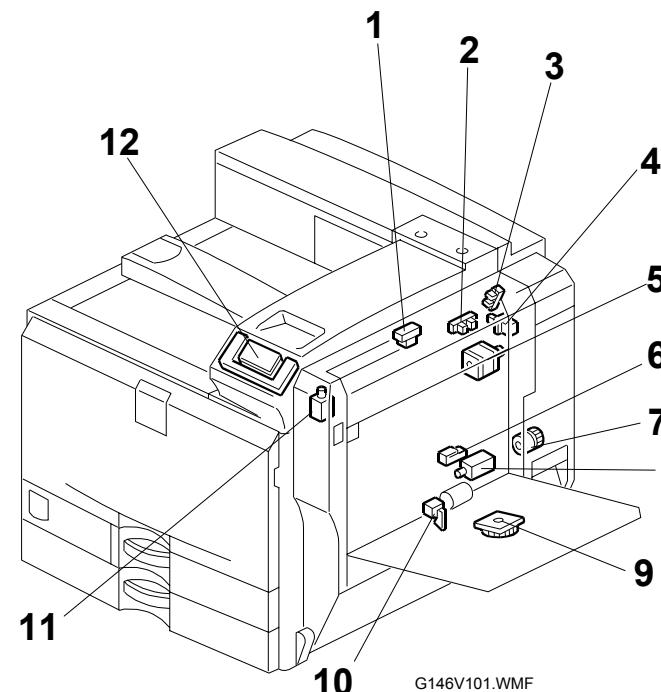


Fig-1

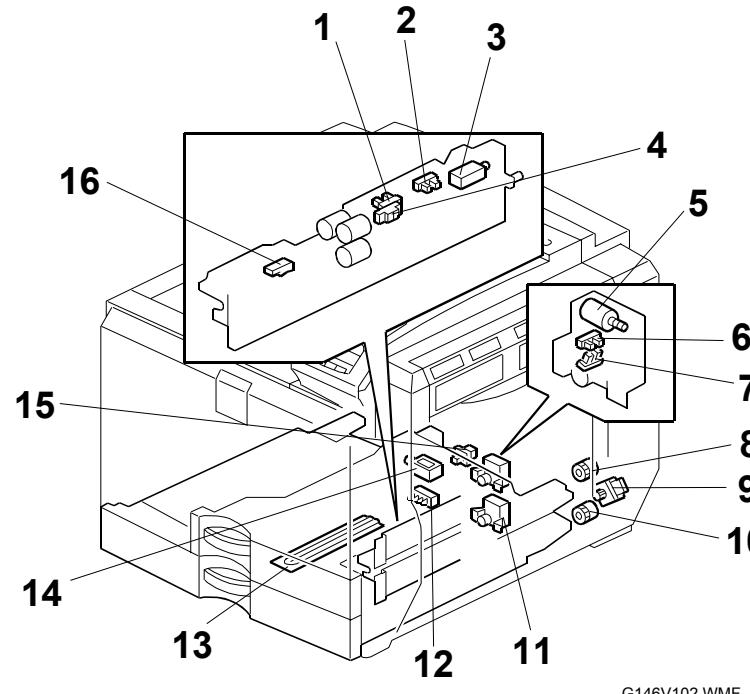


Fig-2

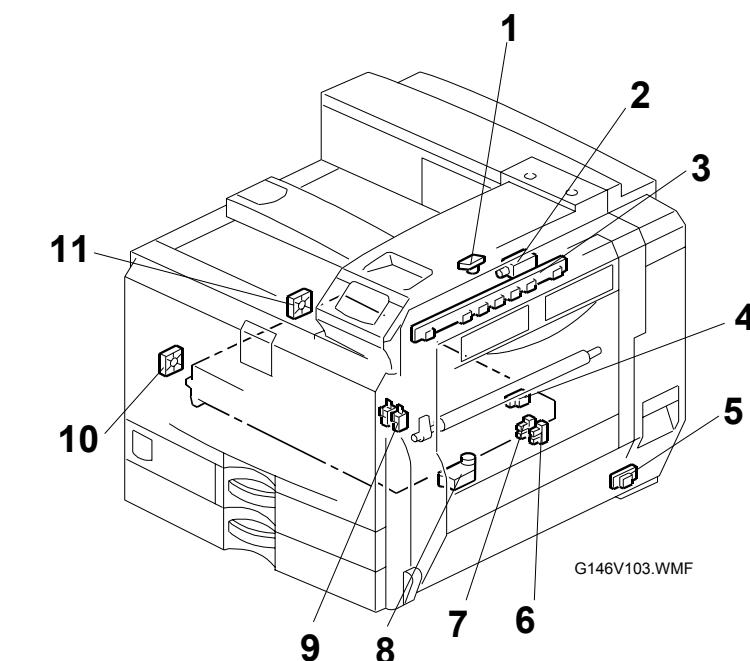


Fig-3

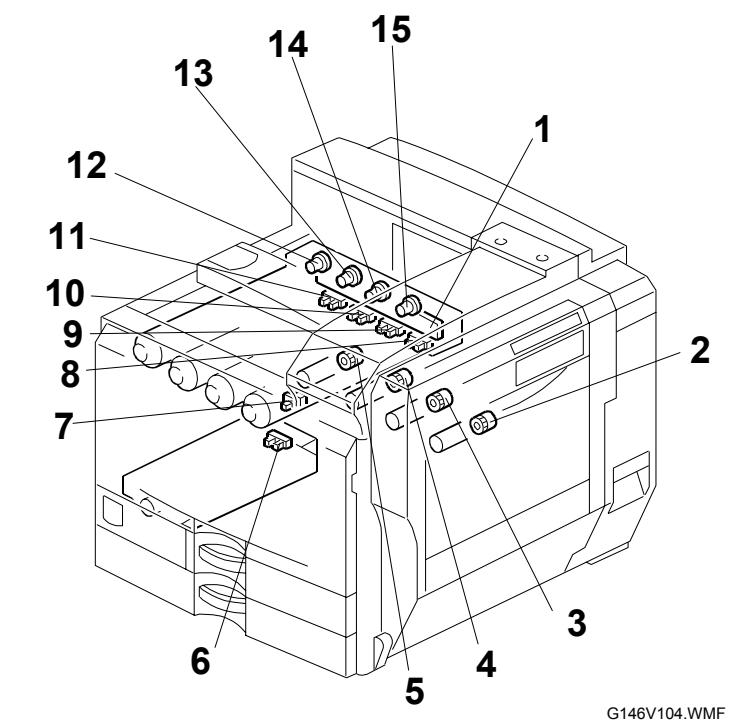


Fig-4

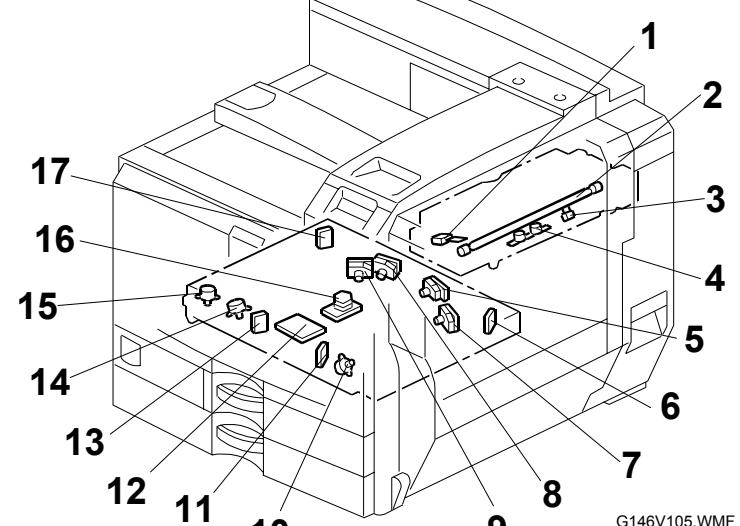


Fig-5

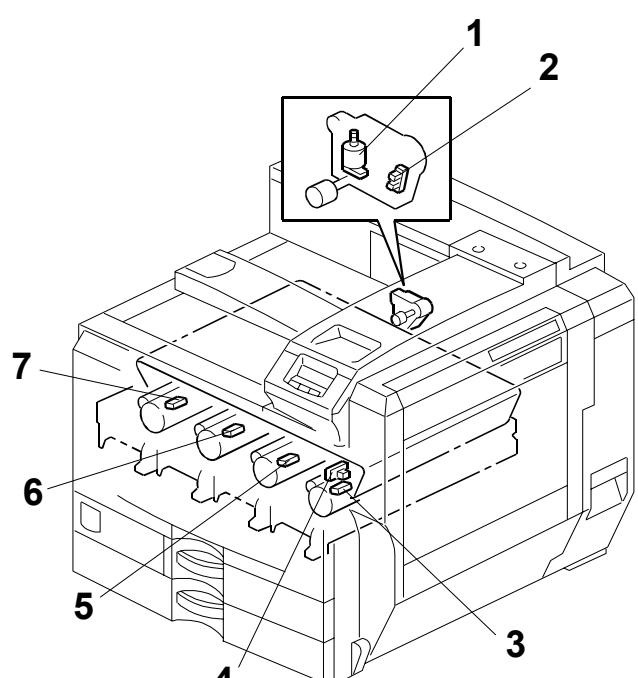


Fig-6

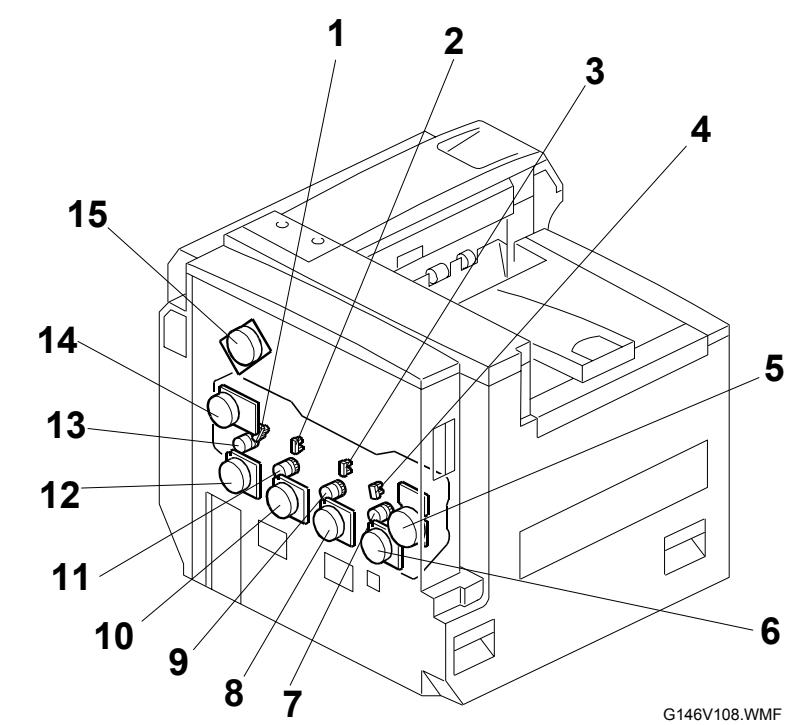


Fig-7

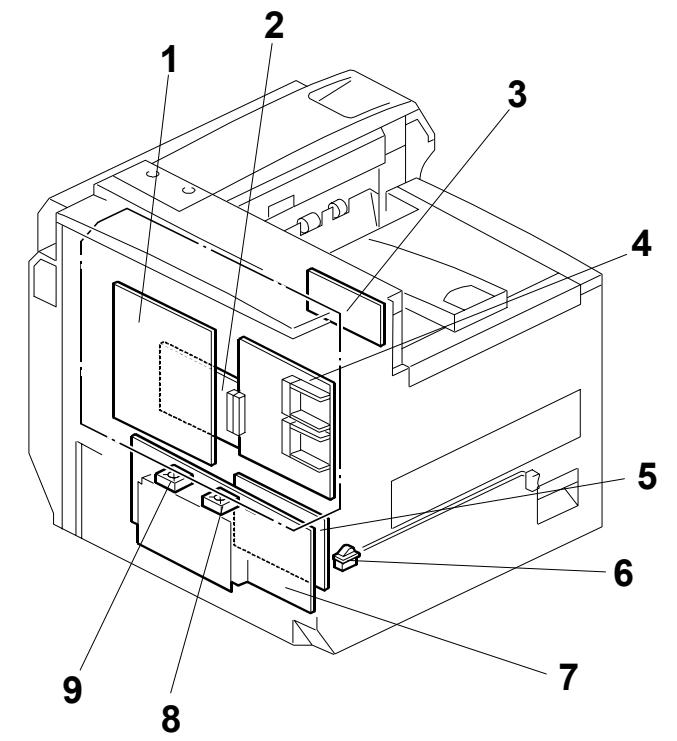


Fig-8

G133 ELECTRICAL COMPONENT LAYOUT (2/2)

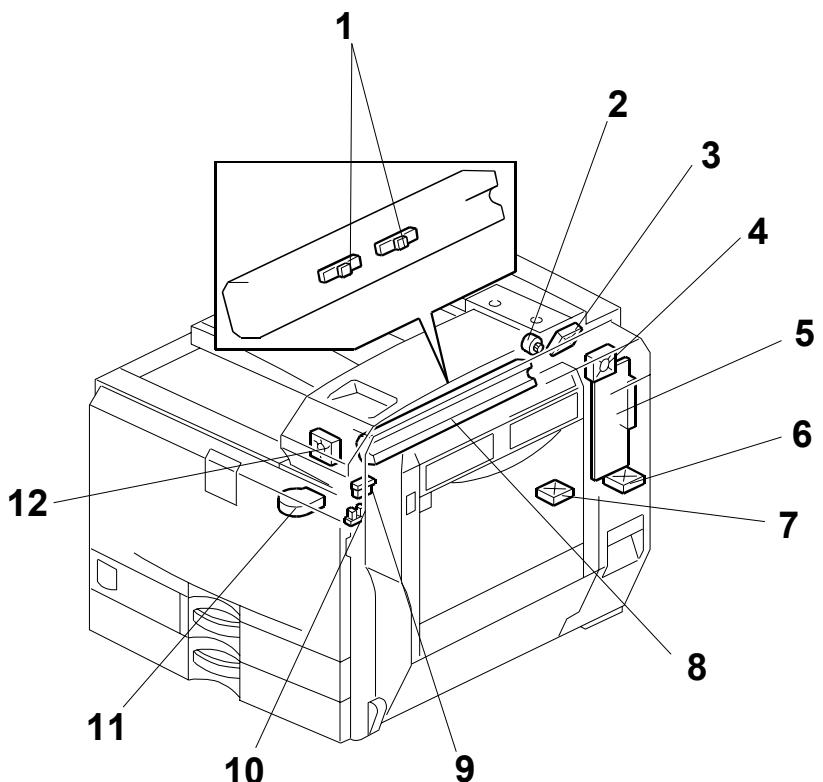


Fig-9

G146V110.WMF

| Symbol | Index No. | Description | P to P |
|----------------|-----------|---|--------|
| PCBs | | | |
| PCB1 | 8-3 | ITB Power Supply Board | B4 |
| PCB2 | 8-5 | High Voltage Supply Board | B4 |
| PCB3 | 8-1 | IOB | G2 |
| PCB4 | 4-1 | RFID | I6 |
| PCB5 | 8-7 | PSU | F5 |
| PCB6 | 9-5 | IH Inverter Board | F4 |
| PCB7 | 10-9 | High Voltage Supply Board - Discharge Plate | C1 |
| PCB8 | 5-5 | LD Unit-K | A8 |
| PCB9 | 5-7 | LD Unit-M | B8 |
| PCB10 | 5-8 | LD Unit-C | B8 |
| PCB11 | 5-9 | LD Unit-Y | B8 |
| PCB12 | 5-17 | Laser Synchronizing Detector Board-YC-E | C8 |
| PCB13 | 5-13 | Laser Synchronizing Detector Board-YC-S | C8 |
| PCB14 | 5-11 | Laser Synchronizing Detector Board-MK-E | C8 |
| PCB15 | 5-6 | Laser Synchronizing Detector Board-MK-S | C8 |
| PCB16 | 5-12 | Polygon Motor Control Board | D9 |
| PCB17 | 1-12 | LCDC | D9 |
| PCB18 | 8-2 | EGB | C8 |
| PCB19 | 8-4 | CTL | F8 |
| Heaters | | | |
| H1 | 2-13 | Anti-condensation Heater - Standard Tray (Option) | D6 |
| H2 | 2-13 | Anti-condensation Heater - Option Tray (Option) | D6 |
| H3 | - | Anti-condensation Heater - Drum (Option) | D5 |

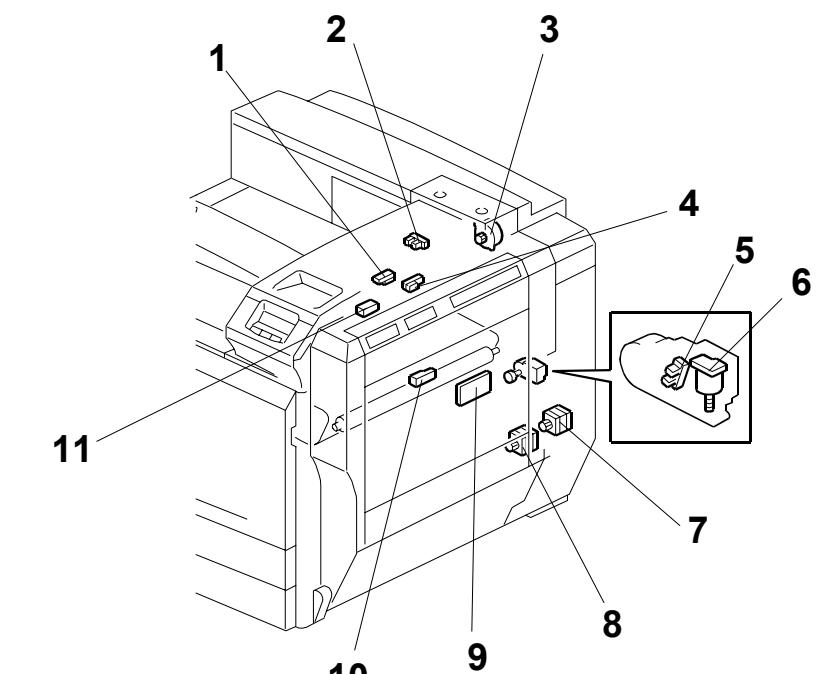


Fig-10

G146V111.WMF

| Symbol | Index No. | Description | P to P |
|------------------|-----------|--------------------------------|--------|
| Motors | | | |
| M1 | 3-8 | Shutter | A2 |
| M2 | 1-5 | Duplex Inverter | C1 |
| M3 | 10-3 | Junction Gate1 | D3 |
| M4 | 10-6 | Paper Transfer Roller Contact | D3 |
| M5 | 6-1 | Image Transfer Belt Contact | E3 |
| M6 | 10-7 | Duplex/By-pass | E1 |
| M7 | 10-8 | Registration | E1 |
| M8 | 2-9 | Paper Feed | E1 |
| M9 | 2-5 | Tray1 Lift | F1 |
| M10 | 2-11 | Tray2 Lift | F1 |
| M11 | 9-2 | Ferrite Roller | G4 |
| M12 | 7-14 | Image Transfer Belt Unit Drive | I5 |
| M13 | 7-15 | Fusing/Paper Exit | I4 |
| M14 | 7-8 | Drum/Development Motor:C | I3 |
| M15 | 7-6 | Drum/Development Motor:Y | I3 |
| M16 | 7-12 | Drum/Development Motor:K | I3 |
| M17 | 7-10 | Drum/Development Motor:M | I2 |
| M18 | 7-5 | Toner Transport | I2 |
| M19 | 5-10 | WTL Positioning Motor:M | C8 |
| M20 | 5-14 | WTL Positioning Motor:C | C8 |
| M21 | 5-15 | WTL Positioning Motor:Y | C8 |
| M22 | 5-16 | Polygon | D8 |
| Clutches | | | |
| CL1 | 1-7 | By-pass Feed | D1 |
| CL2 | 2-8 | Tray1 Paper Feed | D1 |
| CL3 | 2-10 | Tray2 Paper Feed | D1 |
| CL4 | 4-2 | Toner Supply Clutch:K | I6 |
| CL5 | 4-3 | Toner Supply Clutch:M | I6 |
| CL6 | 4-4 | Toner Supply Clutch:C | I6 |
| CL7 | 4-5 | Toner Supply Clutch:Y | I6 |
| CL8 | 4-12 | Toner Bottle Clutch - K | I6 |
| CL9 | 4-15 | Toner Bottle Clutch - M | I5 |
| CL10 | 4-14 | Toner Bottle Clutch - C | I5 |
| CL11 | 4-13 | Toner Bottle Clutch - Y | I5 |
| CL12 | 7-13 | Development Clutch:K | I4 |
| CL13 | 7-11 | Development Clutch:M | I4 |
| CL14 | 7-9 | Development Clutch:C | I4 |
| CL15 | 7-7 | Development Clutch:Y | I4 |
| Solenoids | | | |
| SOL1 | 3-2 | ID Sensor Shutter | C3 |
| SOL2 | 1-11 | Duplex Inverter | C1 |
| SOL3 | 1-8 | By-pass Pick-up | C1 |
| SOL4 | 2-14 | Tray Lock | F1 |
| SOL5 | 2-3 | Tray1 Pick-up | G1 |
| SOL6 | 2-3 | Tray2 Pick-up | G1 |
| Switches | | | |
| SW1 | 8-6 | Main | E5 |
| SW2 | 3-9 | Interlock | E5 |
| SW3 | 1-4 | Right Door Open | C1 |
| SW4 | 4-7 | Waste Toner Bottle Set | E1 |
| SW5 | 2-15 | Tray1 Set | F1 |
| SW6 | 2-12 | Tray2 Paper Size | F1 |
| Lamps | | | |
| L1 | 5-2 | Pressure Roller Fusing Lamp | F3 |
| FANS | | | |
| FAN1 | 3-10 | Ventilation Fan - Front | A3 |
| FAN2 | 3-11 | Ventilation Fan - Rear | A3 |
| FAN3 | 9-3 | Second Duct | A2 |
| FAN4 | 9-7 | Third Duct | A2 |
| FAN5 | 9-12 | Paper Exit | A2 |
| FAN6 | 9-11 | IH Coil | D3 |
| FAN7 | 9-4 | Fusing | D3 |
| FAN8 | 9-6 | IH Inverter | G4 |
| FAN9 | 8-9 | PSU FAN1 | F5 |
| FAN10 | 8-8 | PSU FAN2 | F5 |
| FAN11 | - | HDD | F9 |
| Others | | | |
| TS1 | 5-4 | Thermostat - Pressure Roller | F3 |
| TS2 | 5-4 | Thermostat - Pressure Roller | F3 |
| TS3 | 9-1 | Thermostat - IH | F4 |
| TS4 | 9-1 | Thermostat - IH | F4 |
| TH1 | 5-3 | Thermistor - Pressure Roller | E3 |
| TH2 | 5-1 | Thermistor - Heating Roller | E3 |
| HDD1 | - | HDD1 | F9 |
| - | 9-8 | IH Coil Unit | F4 |