

A [2] PD (POWER-DOWN) DIAGNOSIS OF FAILURE ANALYSIS

| Red LED Flashing Count | Factory History Display | Defective Assy    | PD Outline  | Checkpoint  | Possible Defective Part  | Remarks   |  |
|------------------------|-------------------------|-------------------|---|---|--|---|--|
| 2                      | P-PWR                   | POWER SUPPLY Unit | Each PD in the POWER SUPPLY Unit                                  |   |  |   |  |
|                        |                         |                   | Connector disconnection   | Connector [P14][P15] (60"only)                                    |  | The POWER SUPPLY Unit of 60 inches model is a structure of the two parts.           |  |
|                        |                         | X DRIVE Assy      | VSUS under voltage protection                                     | X SUS block   | Q1218,Q1219,Q1221-Q1223,Q1226                                  | VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.                                  |  |
|                        |                         | Y DRIVE Assy      | VSUS under voltage protection                                     | Y SUS block   | Q2217-Q2224  | VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.                                  |  |
|                        |                         | ADDRESS Assy      | Connector disconnection   | Connector [AD1]   |  |   |  |
| 3                      | SCAN                    | DIGITAL Assy      | Connector disconnection   | Connector [D13] to [D20]  |  |   |  |
|                        |                         | SCAN Assy         |   | SCAN IC   | each SCAN IC   | The abnormality of the SCAN IC  |  |
|                        |                         | X DRIVE Assy      | VH over or under voltage protection                               | X SUS block   | Q1218,Q1219,Q1221-Q1223,Q1226                                  | VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.                                  |  |
|                        |                         | Y DRIVE Assy      |   | Y SUS block   | Q2217-Q2219,Q2221-Q2223  | VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.                                  |  |
|                        |                         |                   |   | VH DC/DC  | IC2601,IC2603,IC2604   |   |  |
|                        |                         | OFFSET block      | Q2401,Q2402   | KNOFS1 and KNOFS3 are short-circuited.                            |  |   |  |
| 4                      | SCN5V                   | DIGITAL Assy      | Connector disconnection   | Connector [Y1][Y2]  |  |   |  |
|                        |                         | SCAN Assy         | Connector disconnection   | Connector [D21]   |  |   |  |
| 6                      | Y-DCDC                  | Y DRIVE Assy      | SCAN Assy   | Connector disconnection   | Connector [SA1][SB1][SB2][SC1][SC2][SD1]                       |   | [SB2][SC1][SC2][SD1] are 60 inches model only.   |
|                        |                         |                   | Y DRIVE Assy  | IC5V over or under voltage protection                             | IC5V DC/DC   | each SCAN IC  |  |
|                        |                         |                   |   |   | Y MSK block  | Q2321-Q2326,Q2328-Q2331,Q2333,Q2334   | L MSK is short-circuited.  |
|                        |                         |                   |   | VNOFS under voltage protection                                    | NOFS block   | Q2424,Q2429   | NOFS is short-circuited.   |
|                        |                         |                   |   | VYPRST under voltage protection                                   | VNOFS DC/DC  | D2606,Q2709-Q2711   |  |
|                        |                         |                   |   |   | VPRST regulaotr  | Q2604,Q2605,IC2602  |  |
|                        |                         |                   |   | 15VDD under voltage protection                                    | PR-U block   | Q2418   | PR-U is short-circuited.   |
|                        |                         |                   |   |   | 15V DC/DC  | Q2662,R2669,L2301,R2335   |  |
|                        |                         |                   |   |   | SOFT-G block   | Q2427   | SOFT-G is short-circuited.   |
|                        |                         |                   |   |   | Y MSK block  | Q2321-Q2326,Q2328-Q2331,Q2333,Q2334   | L MSK is short-circuited.  |
| 7                      | Y-SUS                   | Y DRIVE Assy      | VKOFSS1,2 under voltage protection                                | KNOFS2 block  | Q2430  | KNOFS2 is short-circuited.  |  |
|                        |                         |                   |   | VYKOFSS1, 2 regulaotr   | Q2702,Q2705,R2714  |   |  |
|                        |                         |                   |   | VKOFSS3 under voltage protection                                  | Y MSK block  | Q2321-Q2326,Q2328-Q2331,Q2333,Q2334   | L MSK is short-circuited.  |
|                        |                         |                   |   | VYKOFSS3 regulaotr  | Q2703,Q2706,R2715  |   |  |
|                        |                         |                   |   | VKOFSS4 under voltage protection                                  | Y MSK block  | Q2321-Q2326,Q2328-Q2331,Q2333,Q2334   | L MSK is short-circuited.  |
|                        |                         |                   |   |   | KNOFS4 block   | Q2432   | KNOFS4 is short-circuited.   |
|                        |                         |                   |   |   | VYKOFSS4 regulaotr   | Q2704,Q2707,R2717   |  |
| 8                      | ADRS                    | ADDRESS Assy      | Y DRIVE Assy  | Over or under voltage protection of the center electric potential | Y resonance block  | Q2106-Q2109,Q2111,Q2113,D2104-D2107   |  |
|                        |                         |                   | DIGITAL Assy  | SQ_LSI does not operate   | SEQ_LSI (Sync input, output waveform)                          | IC3301,IC3302   | The history of SD1 remains   |
|                        |                         |                   |   | VADR under voltage protection                                     | Address resonance block  | Q1711,Q1721,Q1731,Q1741,Q1911,Q1921,Q1931,D1711,D1721,D1731,D1741,D1911,D1921,D1931 |  |
|                        |                         |                   |   | Connector disconnection   | TCP  | TCP (IC1651,IC1661,IC1671,IC1681,IC1851,IC1861,IC1871)                              | When the TCP is damaged, replace the panel.  |
|                        |                         |                   |   | Connector disconnection   | Connector [AD1][AD2]   |   | Ref No. of L Assy (6 pieces) and S Assy (2 pieces) are common use.                       |
| 10                     | X-DCDC                  | X DRIVE Assy      | DIGITAL Assy  | Connector disconnection   | Connector [D13] to [D20]                                       |   |  |
|                        |                         |                   | Y DRIVE Assy  | Connector disconnection   | Connector [Y2][Y5][Y6]   |   |  |
|                        |                         |                   | X DRIVE Assy  | Connector disconnection   | Connector [X2][X3][X4]   |   |  |
|                        |                         |                   |   | Connector disconnection   | Connector [P1][P2]   |   |  |
|                        |                         |                   |   | Connector disconnection   | Connector [X2]   |   |  |
| 11                     | X-SUS                   | X DRIVE Assy      | 15VDD under voltage protection                                    | X SUS block   | L1201,R1217  |   |  |
|                        |                         |                   |   | 15V DC/DC   | Q1402  |   |  |
|                        |                         |                   | VXKOFSS1 under voltage protection                                 | VXKOFSS1 regulaotr  | Q1405,Q1406  |   |  |
|                        |                         |                   |   | X OFFSET block  | Q1302,Q1304  |   |  |
| 12                     | D-DCDC                  | DIGITAL Assy      | VXKOFSS2 under voltage protection                                 | VXKOFSS2 regulaotr  | Q1403,Q1404  |   |  |
|                        |                         |                   |   | X OFFSET block  | Q1301,Q1303  |   |  |
| 15                     | UNKNOW                  | DIGITAL Assy      | Over or under voltage protection of the center electric potential | X resonance block   | Q1108,Q1112,Q1116,Q1119  |   |  |
|                        |                         |                   |   | 3.3V,2.5V,1.1V  | DC/DC controlo IC  | IC3801  |  |
| 15                     | UNKNOW                  | DIGITAL Assy      | Over voltage/under voltage/overcurrent protection                 | DC/DC block   | Q3841,Q3861,Q3881,L3841,L3861,L3881<br>R3820,R3848,R3868,R3888 |   |  |
|                        |                         |                   | POWER SUPPLY Unit   | Connector disconnection   | Connector [P4]   |   | EXT_PD line : Open   |
|                        |                         |                   | ModuleUcom can not detection                                      | Each PD line of ModuleUcom  |  |   | EXT_PD line : Open<br>It becomes "UNKNOW" except above-mentioned PD detection condition. |