

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

Red LED Flashing Count	Factory History Display	Defective Assy	PD Outline	Checkpoint
2	P-PWR	POWER SUPPLY Unit	Each PD in the POWER SUPPLY Unit Connector disconnection	Connector [P14][P15] (60°only)
		X DRIVE Assy	VSUS under voltage protection	X SUS block
		Y DRIVE Assy	VSUS under voltage protection	Y SUS block
		ADDRESS Assy	Connector disconnection	Connector [AD1]
		DIGITAL Assy	Connector disconnection	Connector [D13] to [D20]
3	SCAN	SCAN Assy	VH over or under voltage protection Connector disconnection	SCAN IC
		X DRIVE Assy		X SUS block
		Y DRIVE Assy		Y SUS block
				VH DC/DC
				OFFSET block
		Connector [Y1][Y2]		
	DIGITAL Assy	Connector disconnection	Connector [D21]	
4	SCN5V	SCAN Assy	Connector disconnection	Connector [SA1][SB1][SB2][SC1][SC2][SD1]
		Y DRIVE Assy	IC5V over or under voltage protection	SCAN IC IC5V DC/DC
6	Y-DCDC	Y DRIVE Assy	VNOFS under voltage protection	Y MSK block NOFS block VNOFS DC/DC
			VYPRST under voltage protection	VPRST regulaotr PR-U block
			15VDD under voltage protection	15V DC/DC SOFT-G block
			VKOF1,2 under voltage protection	Y MSK block KNOFS2 block VYKOF1, 2 regulaotr
			VKOF3 under voltage protection	Y MSK block VYKOF3 regulaotr
			VKOF4 under voltage protection	Y MSK block KNOFS4 block VYKOF4 regulaotr
7	Y-SUS	Y DRIVE Assy	Over or under voltage protection of the center electric potential	Y resonance block
		DIGITAL Assy	SQ_LSI does not operate	SEQ_LSI (Sync input, output waveform)
8	ADRS	ADDRESS Assy	VADR under voltage protection	Address resonance block TCP
			Connector disconnection	Connector [AD1][AD2]
		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]
	POWER SUPPLY Unit	Connector disconnection	Connector [P1][P2]	
10	X-DCDC	X DRIVE Assy	Connector disconnection	Connector [X2]
			15VDD under voltage protection	X SUS block 15V DC/DC
			VXKOF1 under voltage protection	VXKOF1 regulaotr X OFFSET block
			VXKOF2 under voltage protection	VXKOF2 regulaotr
				X OFFSET block
11	X-SUS	X DRIVE Assy	Over or under voltage protection of the center electric potential	X resonance block
12	D-DCDC	DIGITAL Assy	3.3V,2.5V,1.1V Over voltage/under voltage/overcurrent protection	DC/DC controlo IC DC/DC block
15	UNKNOW	POWER SUPPLY Unit	Connector disconnection	Connector [P4]
		DIGITAL Assy	Connector disconnection	Connector [D23]
			ModuleUcom can not detection	Each PD line of ModuleUcom

Possible Defective Part	Remarks
Q1218,Q1219,Q1221-Q1223,Q1226 Q2217-Q2224	The POWER SUPPLY Unit of 60 inches model is a structure of the two parts. VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited. VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.
each SCAN IC Q1218,Q1219,Q1221-Q1223,Q1226 Q2217-Q2219,Q2221-Q2223 IC2601,IC2603,IC2604 Q2401,Q2402	The abnormality of the SCAN IC VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited. VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited. KNOFS1 and KNOFS3 are short-circuited.
each SCAN IC Q2764,D2768,R2764 Q2321-Q2326,Q2328-Q2331,Q2333,Q2334 Q2424,Q2429 D2606,Q2709-Q2711 Q2604,Q2605,IC2602 Q2418 Q2662,R2669,L2301,R2335 Q2427 Q2321-Q2326,Q2328-Q2331,Q2333,Q2334 Q2430 Q2702,Q2705,R2714 Q2321-Q2326,Q2328-Q2331,Q2333,Q2334 Q2703,Q2706,R2715 Q2321-Q2326,Q2328-Q2331,Q2333,Q2334 Q2432 Q2704,Q2707,R2717 Q2106-Q2109,Q2111,Q2113,D2104-D2107	[SB2][SC1][SC2][SD1] are 60 inches model only. L MSK is short-circuited. NOFS is short-circuited. PR-U is short-circuited. SOFT-G is short-circuited. L MSK is short-circuited. KNOFS2 is short-circuited. L MSK is short-circuited. KNOFS4 is short-circuited.
IC3301,IC3302 Q1711,Q1721,Q1731,Q1741,Q1911,Q1921,Q1931,D1711,D1721,D1731,D1741,D1911,D1921,D1931 TCP (IC1651,IC1661,IC1671,IC1681,IC1851,IC1861,IC1871)	The history of SD1 remains When the TCP is damaged, replace the panel. Ref No. of L Assy (6 pieces) and S Assy (2 pieces) are common use.
L1201,R1217 Q1402 Q1405,Q1406 Q1302,Q1304 Q1403,Q1404 Q1301,Q1303 Q1108,Q1112,Q1116,Q1119 IC3801 Q3841,Q3861,Q3881,L3841,L3861,L3881 R3820,R3848,R3868,R3888	
	EXT_PD line : Open
	EXT_PD line : Open
	It becomes "UNKNOW" except above-mentioned PD detection condition.