

Zertifikat *Certificate*



Zertifikat Nr. *Certificate No.*
CJ 50128146

Blatt *Page*
0011

Ihr Zeichen *Client Reference*
CLB51-10/084

Unser Zeichen *Our Reference*
ZJL-KHI- 12604190 015

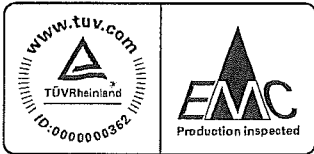
Ausstellungsdatum
01.09.2010

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*
Fanuc Ltd.
3580 Komanba, Shibokusa
Oshino-mura, Minami-Tsuru-gun
Yamanashi
401-0597 JAPAN

Fertigungsstätte *Manufacturing Plant*
Fanuc Ltd.
Electronics Factory
3580 Komanba, Shibokusa
Oshino-mura, Minami-Tsuru-gun
Yamanashi
401-0597 JAPAN

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 61000-6-4:2007
EN 55011:2007+A2
EN 61000-6-2:2005

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Steuereinheit Computer Numerical Control

Addition

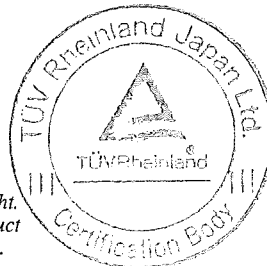
Type Designation : Stand-alone type 30i Series No.26
(refer to Appendix 1.9)

1

1

ANLAGE (Appendix): 1.9

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.



Zertifizierungsstelle

TÜV Rheinland Japan Ltd., 3-19-5 Shin Yokohama,
Kohoku-ku, Yokohama 222-0003

Dipl.-Ing. M. Geiser

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Licenseholder: FANUC LTD
Full Address: 3580 Komanba, Shibokusa, Oshino-mura, Minamitsuru-gun, Yamanashi-ken, 401-0597, Japan

Applicant: FANUC LTD
Full Address: 3580 Komanba, Shibokusa, Oshino-mura, Minamitsuru-gun, Yamanashi-ken, 401-0597, Japan

Factory: FANUC LTD
Full Address: 3580 Komanba, Shibokusa, Oshino-mura, Minamitsuru-gun, Yamanashi-ken, 401-0597, Japan

Factory: FANUC PERTRONICS LTD
Full Address: 11400-260 TAMAGAWA-AZA-HARAYAMA CHINO-SHI NAGANO-KEN 391-8540 JAPAN

Kind of product: Computer Numerical Control

Type designation: Stand-alone type 30i series No.26
(Detail is described in table 1)

Category: ITE ISM, Group: Medical
 Home Appliance others:

Application: Residential, Commercial and Light Industrial areas Heavy Industrial areas

Rated Voltage: Refer to Table 2.
Frequency: Refer to Table 2.
Current/Power: Refer to Table 2.
Protection Class: Refer to Table 2.

Table 1-1. Type designation (P.C.B.):

No.	Description	Specification number of primary component	Specification number of secondary component		Remarks
1	Main board	A20B-8200-0740 A20B-8200-0741 A20B-8200-0743	A20B-8200-0742 A20B-8200-0744 A20B-8200-0745	A20B-8200-0746	Refer to A-97055-001
2	Control PCB for Machine operator's panel	A20B-2004-0740			
3	I/O Unit-MODEL A Interface (AIF01D)	A20B-8002-0780			
4	I/O Unit-MODEL A DC digital output (AOD32D1) (Sec: AOD32D2)	A20B-8000-0440	A20B-8000-0510		Refer to A-97055-006
5	I/O Unit-MODEL A DC digital input (AID16D)	A20B-8002-0370			
6	Terminal type I/O Control PCB for Basic module	A20B-2004-0830			

All pages approved
TÜV Rheinland Japan Ltd.
Yokohama 222-0033 Japan

K. Hirose
2010-08-23

(date and signature)

June. 17, 2010

Yamanashi, 401-0511 JAPAN

(Date, Place)

FANUC LTD

K. Kanda



(Stamp and Signature of Applicant)

A-97057

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No.	Description	Specification number of primary component	Specification number of secondary component		Remarks
7	Terminal type I/O Terminal PCB for Basic module	A20B-2102-0090			
8	Terminal type I/O Control PCB for Extension module A (Sec: for Extension module B)	A20B-2004-0850	A20B-2004-0851		Refer to A- 97055-007
9	Terminal type I/O Terminal PCB for Extension module A, B	A20B-2102-0091			
10	Terminal type I/O Control PCB for Extension module C	A20B-2004-0060			
11	Terminal type I/O Terminal PCB for Extension module C	A20B-2004-0070			
12	Terminal type I/O Control PCB for Extension module D	A20B-2004-0260			
13	Terminal type I/O Terminal PCB for Extension module D	A20B-1009-0010			
14	Operator's panel I/O module A3	A20B-2102-0172	A20B-2102-0170 A20B-2102-0173	A20B-2102-0171	Refer to A- 97055-009
15	Operator's panel I/O module C1	A20B-2004-0890	A20B-2004-0891		Refer to A- 97055-009
16	FROM/SRAM module	A20B-3900-0282	A20B-3900-0280 A20B-3900-0283 A20B-3900-0285 A20B-3900-0287 A20B-3900-0290 A20B-3900-0292	A20B-3900-0281 A20B-3900-0284 A20B-3900-0286 A20B-3900-0288 A20B-3900-0291	Refer to A- 97055-010

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Table 1-2. **Type designation (UNIT):**

No.	Description	Specification number of primary component	Specification number of secondary component		Remarks
1	Display Unit Basic	A13B-0201-B003 A13B-0201-B013 A13B-0201-B023	A02B-0323-C070	A02B-0323-H227	Refer to A-97055-002
			A02B-0323-C071	A02B-0323-H230	
			A02B-0323-C078	A02B-0323-H232	
			A02B-0323-C079	A02B-0323-H235	
			A02B-0323-C080	A02B-0323-H237	
			A02B-0323-C081	A13B-0201-B001	
			A02B-0323-C088	A13B-0201-B004	
			A02B-0323-C089	A13B-0201-B006	
			A02B-0323-C091	A13B-0201-B011	
			A02B-0323-C092	A13B-0201-B012	
			A02B-0323-C093	A13B-0201-B014	
			A02B-0323-C094	A13B-0201-B015	
			A02B-0323-C095	A13B-0201-B016	
			A02B-0323-C096	A13B-0201-B021	
			A02B-0323-C097	A13B-0201-B024	
			A02B-0323-C098	A13B-0201-B026	
			A02B-0323-H121	A13B-0201-B201	
			A02B-0323-H124	A13B-0201-B202	
			A02B-0323-H125	A13B-0201-B203	
			A02B-0323-H127	A13B-0201-B204	
			A02B-0323-H131	A13B-0201-B205	
			A02B-0323-H134	A13B-0201-B206	
			A02B-0323-H135	A13B-0201-B207	
			A02B-0323-H137	A13B-0201-B208	
			A02B-0323-H170	A13B-0201-B211	
			A02B-0323-H171	A13B-0201-B212	
			A02B-0323-H172	A13B-0201-B213	
			A02B-0323-H173	A13B-0201-B214	
A02B-0323-H174	A13B-0201-B215				
A02B-0323-H175	A13B-0201-B216				
A02B-0323-H220	A13B-0201-B217				
A02B-0323-H222	A13B-0201-B218				
A02B-0323-H225					
2	15" LCD unit	A02B-0323-D548	A02B-0323-D515	A02B-0323-D564	Refer to A-97055-003
			A02B-0323-D517	A02B-0323-D568	
			A02B-0323-D518	A02B-0323-D569	
			A02B-0323-D520	A13B-0201-D201	
			A02B-0323-D535	A13B-0201-D202	
			A02B-0323-D536	A13B-0201-D203	
			A02B-0323-D537	A13B-0201-D204	
			A02B-0323-D538	A13B-0201-D211	
			A02B-0323-D546	A13B-0201-D212	
			A02B-0323-D556	A13B-0201-D213	
			A02B-0323-D558	A13B-0201-D214	
			A02B-0323-D563		

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3	10.4" LCD unit	A02B-0323-D542	A02B-0323-D505	A02B-0323-D540	Refer to A-97055-004
			A02B-0323-D507	A02B-0323-D550	
			A02B-0323-D525	A02B-0323-D552	
			A02B-0323-D527		
4	12.1" LCD unit	A02B-0323-D545	A02B-0323-D508	A02B-0323-D543	Refer to A-97055-005
			A02B-0323-D509	A02B-0323-D544	
			A02B-0323-D510	A02B-0323-D553	
			A02B-0323-D511	A02B-0323-D554	
			A02B-0323-D512	A02B-0323-D555	
			A02B-0323-D513	A02B-0323-D560	
			A02B-0323-D528	A02B-0323-D561	
			A02B-0323-D529	A02B-0323-D562	
			A02B-0323-D530	A02B-0323-D565	
			A02B-0323-D531	A02B-0323-D566	
			A02B-0323-D532	A02B-0323-D567	
			A02B-0323-D533		
5	Compact Flash Card	A87L-0001-0173#128MBC A87L-0001-0173#128MBD A87L-0001-0173#256MBD A87L-0001-0173#512MBD A87L-0001-0173#001GBD A87L-0001-0173#002GBD			
6	USB Punch Panel	A08B-0082-C205			
7	Machine operator's panel	A02B-0323-C231			
8	Sub panel C1 (Sec: A, B, B1, C, D, E, G)	A02B-0236-C236	A02B-0236-C232	A02B-0236-C244	Refer to A-97055-008
			A02B-0236-C233	A02B-0236-C350	
			A02B-0236-C235	A02B-0236-C351	
			A02B-0236-C234		
9	I/O Unit-MODEL A Interface (AIF01D)	A03B-0819-C015			
10	I/O Unit-MODEL A DC digital output (AOD32D1) (Sec: AOD32D2)	A03B-0819-C156	A03B-0819-C167		Refer to A-97055-006
11	I/O Unit-MODEL A DC digital input (AID16D)	A03B-0819-C116			
12	Terminal type I/O Basic module	A03B-0823-C011			
13	Terminal type I/O Extension module A (Sec: Extension module B)	A03B-0823-C012	A03B-0823-C013		Refer to A-97055-007
14	Terminal type I/O Extension module C	A03B-0823-C014			
15	Terminal type I/O Extension module D	A03B-0823-C015			

1)"Primary component" is the item that is tested by the certification test.

2)"Secondary components" are automatically included in this list without certification test, because those are, in EMC point of view, identical to the "Primary component" that basically shows the worst case.

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Table 2. **Rated Voltage, Frequency, Current/Power, Protection Class**

Unit	Rated Voltage	Frequency	Current/Power	Protection Class
System	AC200-230V (+10%, -15%), 3φ	50/60Hz	31A	1

Table 3. **External supply connections and interfaces:** (including AC and DC power supply lines)

Connections, Interfaces	max. cable length, type (shielded, non-shielded)
AC power cable	Unspecified, non-shielded
Loop cable	50m, twisted-pair, shielded
USB cable	5m, shielded
Ethernet cable	100m, Twisted-pair, shielded
I/O LINK cable	10m, shielded
MPG cable	75m, Twisted-pair, shielded
DI/DO loop cable	Unspecified, shielded

Description of the different modes of operation:

Automatic operation mode
Manual mode

Table 4. **Sources of interference:** (Oscillators, switching mode power supplies, collector motors, etc.)

Component, Location	Generated frequency	Type, Rating, etc.
Display Unit Basic A13B-0201-B003, OSC1 A13B-0201-B013, OSC1 A13B-0201-B023, OSC1	16.3840MHz	Clock for the controller, A76L-1300-0016#16M3840 This part is mounted on PCB: A20B-8200-0740, A20B-8200-0741, A20B-8200-0743.
Display Unit Basic A13B-0201-B003, OSC2 A13B-0201-B013, OSC2 A13B-0201-B023, OSC2	48.0000MHz	Clock for the controller, A76L-1300-0016#48M0000 This part is mounted on PCB: A20B-8200-0740, A20B-8200-0741, A20B-8200-0743.
Display Unit Basic A13B-0201-B003, OSC3 A13B-0201-B013, OSC3 A13B-0201-B023, OSC3	25.0000MHz	Clock for the controller, A76L-1300-0016#B25M0000 This part is mounted on PCB: A20B-8200-0740, A20B-8200-0741, A20B-8200-0743.
Machine operator's panel A02B-0323-C231 PCB: A20B-2004-0740, H5,PM5	48.0000MHz (H5)	Clock for LSI SILC, A76L-1300-0016#48M0000
	500kHz (PM5)	Switching frequency, A76L-1151-0252
I/O Unit-MODEL A Interface (AIF01D) A03B-0819-C015 PCB: A20B-8002-0780 , B4,PM1	48.0000MHz (B4)	Clock for LSI SILC, A76L-1300-0016#48M0000
	190kHz (PM1)	Switching frequency, A76L-1151-0257
Terminal type I/O Basic module A03B-0823-C011 PCB: A20B-2004-0830, D1,B3	48.0000MHz (D1)	Clock for LSI SILC, A76L-1300-0016#48M0000
	500kHz (B3)	Switching frequency, A76L-1151-0257
Operator's panel I/O module A3 A20B-2102-0172	48.0000MHz (OSC1)	Clock for LSI SILC, A76L-1300-0016#48M0000
Operator's panel I/O module C1 A20B-2004-0890	48.0000MHz (CLK1)	Clock for LSI SILC, A76L-1300-0016#48M0000

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Component, Location	Generated frequency	Type, Rating, etc.
FROM/SRAM module A20B-3900-0282	33.3333MHz (OSC)	Clock for the controller, A76L-1300-0016#33M3333

Table 5-1. **Protection Parts for AC power line:** (Noise filter, EMC relevant capacitors, inductors, shielding, etc.)

Component, Location	Type, Rating, etc.
Line Filter	SCHAFFNER CO.,LTD. FN3021-80-55
Surge absorber	OKAYA ELECTRIC INDUSTRY CO.,LTD R.C.M-601BUZ-4

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Table 5-2. **Protection Parts in P.C.B.:** (Noise filter, EMC relevant capacitors, inductors, shieldings, etc.)

Component, Location		Type, Rating, etc.	
Main board A20B-8200-0740 A20B-8200-0741 A20B-8200-0743	DC24V input line	Surge killer (ZJ1)	A50L-8101-0043#033
	MDI signal line	RC filter circuits (IC2)	A76L-1300-0022 or A76L-1300-0022#PF (56k Ω , 82pF)
15.1" LCD unit A13B-0201-B023	Plate of LCD unit	Packing	A210-0389-X022#M
Machine operator's panel A02B-0323-C231 PCB: A20B-2004-0740	Filter circuits in the I/O link signal line	Capacitor CRV1 to 4 Resistor RRV5, RRV6 RRV11, RRV12	A42L-0101-0018#CH470J50 (47pF) A40L-0101-0020#51R00(51 Ω)
	Filter circuits in the DI signal line	RC module RCM1 to 8	A74L-0001-0098 (91k Ω , 0.01 μ F)
	Surge absorber in the DC24V input line	Surge absorber PZ1	A50L-8101-0043#033U
I/O Unit-MODEL A Interface (AIF01D) A03B-0819-C015 PCB: A20B-8002-0780	Filter circuits in the I/O link signal line	Capacitor CC5, CC6, CC7, CC8 Resistor R26, R27, R32, R33	A42L-0101-0018#CH470J50 (47pF) A40L-0101-0020#51R00(51 Ω)
	Surge absorber in the DC24V input line	Surge absorber X2	A50L-8101-0043#033
I/O Unit-MODEL A DC digital output (AOD32D1) A03B-0819-C156 PCB: A20B-8000-0440	LSI (ICS) clock line	Inductor (LX2)	A45L-0001-0164#0240 (40 μ H)
I/O Unit-MODEL A DC digital input (AID16D) A03B-0819-C116 PCB: A20B-8002-0370	LSI (ICS) clock line	Inductor (L1)	A45L-0001-0164#0240 (40 μ H)
	Filter circuits in DI interface	Resistor RX 1 to 16 RX 21 to 36 RX 41 to 56 Capacitor CX1 to CX16	A40L-0101-0003#10000 (1k Ω) A42L-0101-0001#7R154K50 (0.15 μ F)
	Filter circuits in DI signal line	Resistor R21 to R36 R41 to R56 Capacitor CX21 to CX36	A40L-0101-0001#51001 (51k Ω) A40L-0101-0001#20001 (20k Ω) A42L-0101-0018#B104K25 (0.1 μ F)
Terminal type I/O Basic module A03B-0823-C011 PCB: A20B-2004-0830	Filter circuits in the I/O Link signal line	Capacitor CC10, CC11, CC12, CC13 Resistor R18, R19, R23, R24	A42L-0101-0018#CH470J50 (47pF) A40L-0101-0020#51R00(51 Ω)
	Filter circuits in the DI signal line	RC module RCM 1 to 6	A74L-0001-0098 (91k Ω , 0.01 μ F)
	Surge absorber in the DC24V input line	Surge absorber PZ2	A50L-8101-0043#033U
Terminal type I/O Extension module A	Filter circuits in the DI signal line	RC module RCM1 to 6	A74L-0001-0098 (91k Ω , 0.01 μ F)

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Component, Location			Type, Rating, etc.
A03B-0823-C012 PCB: A20B-2004-0850	Surge absorber in the DC24V input line	Surge absorber XZ3	A50L-8101-0043#033U
Terminal type I/O Extension module D A03B-0823-C015 PCB: A20B-2004-0260	Filter circuits in the DI signal line	Resistor RF1 to 8 Capacitor CF5 to 12	A40L-0101-0001#10001 (10k Ω) A42L-0101-0001#B472K50 (0.0047 μ F)
Operator's panel I/O module A3 A20B-2102-0172	Filter Circuits in the I/O Link i signal line	Resistor RI10,RI11,RI20,RI21	A42L-0101-0018#CH470J50 (47pF)
		Capacitor CI10,CI11,CI20,CI21	A40L-0101-0020#51R00(51 Ω)
	Filter Circuits in the DI signal line	RC module RCM1 to 6	A74L-0001-0098 (91k Ω ,0.01 μ F)
	Surge killer in the DC24V input line	Surge killer PZ2	A50L-8101-0043#033U
Operator's panel I/O module C1 A20B-2004-0890	Filter Circuits in the I/O Link i signal line	Resistor RI33 to 36	A42L-0101-0018#CH470J50 (47pF)
		Capacitor CI9 to 12	A40L-0101-0020#51R00(51 Ω)
	Filter Circuits in the DI signal line	RC module RCM1 to 18	A74L-0001-0098 (91k Ω ,0.01 μ F)
	Surge killer in the DC24V input line	Surge killer X3	A50L-8101-0043#033U

Description of validity on selection of primary component for Stand-alone type 30i Series No.26

Main board	A-97055-001
Display Unit Basic	A-97055-002
15" LCD unit	A-97055-003
10.4" LCD unit	A-97055-004
12.1" LCD unit	A-97055-005
I/O Unit-MODEL A	A-97055-006
Terminal type I/O module	A-97055-007
Sub panel	A-97055-008
Operator's panel I/O module	A-97055-009
FROM/SRAM module	A-97055-010

- Note 1. The word "primary component" means the component which is tested according to the EMC related standards.
2. The word "secondary component" means the component for which primary component represents.
3. This document describes about the validity on selection of primary components which have its secondary component.

No. 015/12

					TITLE The Description of validity on selection of primary component for Stand-alone type 30i Series (No.26)
01	10.06.22	Terashima	Registered	<i>S. Yamoto</i>	DRAW. NO. A-97055
EDIT.	DATE	DESIGN	DESCRIPTION	FANUC LTD	CUST. PAGE 1/ 1

Description of validity on selection of primary component for Main board

1. Variation and grouping are as shown in table 1.

Table 1

No.	Group	Pri./Sec.	Spec. number	LCD size	USB 2 nd channel circuit
1	A	Pri.	A20B-8200-0741	For 15" LCD unit	Mount
2	A	Sec.	A20B-8200-0742	For 15" LCD unit	Not mount
3	A	Sec	A20B-8200-0744	For 15" LCD unit	Mount
4	A	Sec	A20B-8200-0745	For 15" LCD unit	Mount
5	B	Pri.	A20B-8200-0740	For 10.4" LCD unit	Mount
6	B	Sec.	A20B-8200-0746	For 10.4" LCD unit	Not mount
7	C	Pri.	A20B-8200-0743	For 12.1" LCD unit	Mount

Note) "Pri."(Primary) indicates a tested component. "Sec."(Secondary) shows one represented by the primary component in the same group.

2. No.1, No.5 and No.7 of Main boards were tested as the primary component.
3. The primary component represents all components of their group.
4. The secondary components use the same PWB as the primary component.

Table 2

No.	Spec. number	PWB
1	A20B-8200-0740	A350-8200-T748
2	A20B-8200-0741	A350-8200-T748
3	A20B-8200-0742	A350-8200-T748
4	A20B-8200-0743	A350-8200-T748
5	A20B-8200-0744	A350-8200-T748
6	A20B-8200-0745	A350-8200-T748
7	A20B-8200-0746	A350-8200-T748

5. The difference between the primary component and the secondary components are

1) ID code of PCB

These PCBs have ID code that represents the features of themselves.

These codes are generated by mounting some 0-ohm resistors on PCB.

2) USB 2nd channel circuit

Refer table 1.

6. There is no other EMC relevant difference than described above.

				TITLE The Description of validity on selection of primary component for Main board	
01	10.06.22	Terashima	Registered.	<i>S. Yamate</i>	DRAW. NO. A-97055-001
EDIT.	DATE	DESIGN	DESCRIPTION	FANUC LTD	
				PAGE	1 / 1

Description of validity on selection of primary component for Display Unit Basic

1. Variation and grouping are as shown in table 1.

Table 1

No.	Group	Pri./ Sec.	Spec. number	LCD size	Touch panel	Soft key
1	A	Pri.	A13B-0201-B023	15" color LCD	Mount	Mount
2	A	Sec.	A02B-0323-H220	15" color LCD	Not mount	Mount
3	A	Sec.	A02B-0323-H222	15" color LCD	Mount	Mount
4	A	Sec.	A02B-0323-H225	15" color LCD	Not mount	Mount
5	A	Sec.	A02B-0323-H227	15" color LCD	Mount	Mount
6	A	Sec.	A02B-0323-H230	15" color LCD	Not mount	Mount
7	A	Sec.	A02B-0323-H232	15" color LCD	Mount	Mount
8	A	Sec.	A02B-0323-H235	15" color LCD	Not mount	Mount
9	A	Sec.	A02B-0323-H237	15" color LCD	Mount	Mount
10	A	Sec.	A02B-0323-C091	15" color LCD	Not mount	Mount
11	A	Sec.	A02B-0323-C092	15" color LCD	Mount	Mount
12	A	Sec.	A02B-0323-C093	15" color LCD	Not mount	Mount
13	A	Sec.	A02B-0323-C094	15" color LCD	Mount	Mount
14	A	Sec.	A02B-0323-C095	15" color LCD	Not mount	Mount
15	A	Sec.	A02B-0323-C096	15" color LCD	Mount	Mount
16	A	Sec.	A02B-0323-C097	15" color LCD	Not mount	Mount
17	A	Sec.	A02B-0323-C098	15" color LCD	Mount	Mount
18	A	Sec.	A13B-0201-B021	15" color LCD	Not mount	Mount
19	A	Sec.	A13B-0201-B024	15" color LCD	Not mount	Mount
20	A	Sec.	A13B-0201-B026	15" color LCD	Mount	Mount
21	A	Sec.	A13B-0201-B201	15" color LCD	Not mount	Mount
22	A	Sec.	A13B-0201-B202	15" color LCD	Mount	Mount
23	A	Sec.	A13B-0201-B203	15" color LCD	Not mount	Mount
24	A	Sec.	A13B-0201-B204	15" color LCD	Mount	Mount
25	A	Sec.	A13B-0201-B205	15" color LCD	Not mount	Mount
26	A	Sec.	A13B-0201-B206	15" color LCD	Mount	Mount
27	A	Sec.	A13B-0201-B207	15" color LCD	Not mount	Mount
28	A	Sec.	A13B-0201-B208	15" color LCD	Mount	Mount
29	A	Sec.	A13B-0201-B211	15" color LCD	Not mount	Mount
30	A	Sec.	A13B-0201-B212	15" color LCD	Mount	Mount
31	A	Sec.	A13B-0201-B213	15" color LCD	Not mount	Mount
32	A	Sec.	A13B-0201-B214	15" color LCD	Mount	Mount
33	A	Sec.	A13B-0201-B215	15" color LCD	Not mount	Mount
34	A	Sec.	A13B-0201-B216	15" color LCD	Mount	Mount
35	A	Sec.	A13B-0201-B217	15" color LCD	Not mount	Mount
36	A	Sec.	A13B-0201-B218	15" color LCD	Mount	Mount
37	B	Pri.	A13B-0201-B003	10.4" color LCD	Mount	Mount
38	B	Sec.	A02B-0323-C070	10.4" color LCD	Not mount	Mount
39	B	Sec.	A02B-0323-C071	10.4" color LCD	Mount	Mount
40	B	Sec.	A02B-0323-C078	10.4" color LCD	Not mount	Mount
41	B	Sec.	A02B-0323-C079	10.4" color LCD	Mount	Mount

				TITLE The Description of validity on selection of primary component for Display Unit Basic		
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42	B	Sec.	A02B-0323-C080	10.4" color LCD	Not mount	Mount
43	B	Sec.	A02B-0323-C081	10.4" color LCD	Mount	Mount
44	B	Sec.	A02B-0323-C088	10.4" color LCD	Not mount	Mount
45	B	Sec.	A02B-0323-C089	10.4" color LCD	Mount	Mount
46	B	Sec.	A02B-0323-H121	10.4" color LCD	Not mount	Mount
47	B	Sec.	A02B-0323-H124	10.4" color LCD	Mount	Mount
48	B	Sec.	A02B-0323-H125	10.4" color LCD	Not mount	Mount
49	B	Sec.	A02B-0323-H127	10.4" color LCD	Mount	Mount
50	B	Sec.	A02B-0323-H131	10.4" color LCD	Not mount	Mount
51	B	Sec.	A02B-0323-H134	10.4" color LCD	Mount	Mount
52	B	Sec.	A02B-0323-H135	10.4" color LCD	Not mount	Mount
53	B	Sec.	A02B-0323-H137	10.4" color LCD	Mount	Mount
54	B	Sec.	A13B-0201-B001	10.4" color LCD	Not mount	Mount
55	B	Sec.	A13B-0201-B004	10.4" color LCD	Not mount	Mount
56	B	Sec.	A13B-0201-B006	10.4" color LCD	Mount	Mount
57	C	Pri.	A13B-0201-B013	12.1" color LCD	Mount	Mount
58	C	Sec.	A02B-0323-H170	12.1" color LCD	Not mount	Mount
59	C	Sec.	A02B-0323-H171	12.1" color LCD	Mount	Not mount
60	C	Sec.	A02B-0323-H172	12.1" color LCD	Mount	Mount
61	C	Sec.	A02B-0323-H173	12.1" color LCD	Not mount	Not mount
62	C	Sec.	A02B-0323-H174	12.1" color LCD	Mount	Mount
63	C	Sec.	A02B-0323-H175	12.1" color LCD	Mount	Not mount
64	C	Sec.	A13B-0201-B011	12.1" color LCD	Not mount	Mount
65	C	Sec.	A13B-0201-B012	12.1" color LCD	Mount	Not mount
66	C	Sec.	A13B-0201-B014	12.1" color LCD	Not mount	Mount
67	C	Sec.	A13B-0201-B015	12.1" color LCD	Mount	Not mount
68	C	Sec.	A13B-0201-B016	12.1" color LCD	Mount	Mount

Note) "Pri."(Primary) indicates a tested component. "Sec."(Secondary) shows one represented by the primary component in the same group.

2. No.1, No.37 and No.57 of Display Unit Basic were tested as the primary component.
3. The primary component represents all components of their group.
4. The difference between the primary component and the secondary components are
 - 1) Touch panel
Refer table 1.
 - 2) Soft key
Refer table 1.
5. There is no other EMC relevant difference than described above.

				TITLE The Description of validity on selection of primary component for Display Unit Basic	
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Description of validity on selection of primary component
for 15" LCD unit

1. Variation and grouping are as shown in table 1.

Table 1

No.	Group	Pri./ Sec.	Spec. number	LCD size	Touch panel	Soft key
1	A	Pri.	A02B-0323-D548	15" color LCD	Mount	Mount
2	A	Sec.	A02B-0323-D515	15" color LCD	Not mount	Mount
3	A	Sec.	A02B-0323-D517	15" color LCD	Mount	Mount
4	A	Sec.	A02B-0323-D518	15" color LCD	Not mount	Mount
5	A	Sec.	A02B-0323-D520	15" color LCD	Mount	Mount
6	A	Sec.	A02B-0323-D535	15" color LCD	Not mount	Mount
7	A	Sec.	A02B-0323-D536	15" color LCD	Not mount	Mount
8	A	Sec.	A02B-0323-D537	15" color LCD	Mount	Mount
9	A	Sec.	A02B-0323-D538	15" color LCD	Mount	Mount
10	A	Sec.	A02B-0323-D546	15" color LCD	Not mount	Mount
11	A	Sec.	A02B-0323-D556	15" color LCD	Not mount	Mount
12	A	Sec.	A02B-0323-D558	15" color LCD	Mount	Mount
13	A	Sec.	A02B-0323-D563	15" color LCD	Not mount	Mount
14	A	Sec.	A02B-0323-D564	15" color LCD	Mount	Mount
15	A	Sec.	A02B-0323-D568	15" color LCD	Not mount	Mount
16	A	Sec.	A02B-0323-D569	15" color LCD	Mount	Mount
17	A	Sec.	A13B-0201-D201	15" color LCD	Not mount	Mount
18	A	Sec.	A13B-0201-D202	15" color LCD	Mount	Mount
19	A	Sec.	A13B-0201-D203	15" color LCD	Not mount	Mount
20	A	Sec.	A13B-0201-D204	15" color LCD	Mount	Mount
21	A	Sec.	A13B-0201-D211	15" color LCD	Not mount	Mount
22	A	Sec.	A13B-0201-D212	15" color LCD	Mount	Mount
23	A	Sec.	A13B-0201-D213	15" color LCD	Not mount	Mount
24	A	Sec.	A13B-0201-D214	15" color LCD	Mount	Mount

Note) "Pri."(Primary) indicates a tested component. "Sec."(Secondary) shows one represented by the primary component in the same group.

2. No.1 of 15" LCD unit was tested as the primary component.
3. The primary component represents all components of their group.
4. The difference between the primary component and the secondary components are
 - 1) Touch panel
Refer table 1.
 - 2) Soft key
Refer table 1.
5. There is no other EMC relevant difference than described above.

				TITLE The Description of validity on selection of primary component for 15" LCD unit		
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Description of validity on selection of primary component
for 10.4" LCD unit

1. Variation and grouping are as shown in table 1.

Table 1

No.	Group	Pri./ Sec.	Spec. number	LCD size	Touch panel	Soft key
1	B	Pri.	A02B-0323-D542	10.4" color LCD	Mount	Mount
2	B	Sec.	A02B-0323-D505	10.4" color LCD	Not mount	Mount
3	B	Sec.	A02B-0323-D507	10.4" color LCD	Mount	Mount
4	B	Sec.	A02B-0323-D525	10.4" color LCD	Not mount	Mount
5	B	Sec.	A02B-0323-D527	10.4" color LCD	Mount	Mount
6	B	Sec.	A02B-0323-D540	10.4" color LCD	Not mount	Mount
7	B	Sec.	A02B-0323-D550	10.4" color LCD	Not mount	Mount
8	B	Sec.	A02B-0323-D552	10.4" color LCD	Mount	Mount

Note) "Pri."(Primary) indicates a tested component. "Sec."(Secondary) shows one represented by the primary component in the same group.

2. No.1 of 10.4" LCD unit was tested as the primary component.
3. The primary component represents all components of their group.
4. The difference between the primary component and the secondary components are
 - 1) Touch panel
Refer table 1.
 - 2) Soft key
Refer table 1.
5. There is no other EMC relevant difference than described above.

				TITLE The Description of validity on selection of primary component for 10.4" LCD unit		
01	10.06.22	Terashima	Registered.	<i>S. Yamate</i>	DRAW. NO. A-97055-004	CUST.
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Description of validity on selection of primary component for 12.1" LCD unit

1. Variation and grouping are as shown in table 1.

Table 1

No.	Group	Pri./ Sec.	Spec. number	LCD size	Touch panel	Soft key
1	C	Pri.	A02B-0323-D545	12.1" color LCD	Mount	Mount
2	C	Sec.	A02B-0323-D508	12.1" color LCD	Not mount	Mount
3	C	Sec.	A02B-0323-D509	12.1" color LCD	Mount	Not mount
4	C	Sec.	A02B-0323-D510	12.1" color LCD	Not mount	Mount
5	C	Sec.	A02B-0323-D511	12.1" color LCD	Mount	Not mount
6	C	Sec.	A02B-0323-D512	12.1" color LCD	Mount	Mount
7	C	Sec.	A02B-0323-D513	12.1" color LCD	Not mount	Mount
8	C	Sec.	A02B-0323-D528	12.1" color LCD	Mount	Not mount
9	C	Sec.	A02B-0323-D529	12.1" color LCD	Mount	Mount
10	C	Sec.	A02B-0323-D530	12.1" color LCD	Not mount	Mount
11	C	Sec.	A02B-0323-D531	12.1" color LCD	Mount	Not mount
12	C	Sec.	A02B-0323-D532	12.1" color LCD	Mount	Mount
13	C	Sec.	A02B-0323-D533	12.1" color LCD	Not mount	Mount
14	C	Sec.	A02B-0323-D543	12.1" color LCD	Not mount	Mount
15	C	Sec.	A02B-0323-D544	12.1" color LCD	Mount	Not mount
16	C	Sec.	A02B-0323-D553	12.1" color LCD	Not mount	Mount
17	C	Sec.	A02B-0323-D554	12.1" color LCD	Mount	Not mount
18	C	Sec.	A02B-0323-D555	12.1" color LCD	Mount	Mount
19	C	Sec.	A02B-0323-D560	12.1" color LCD	Not mount	Mount
20	C	Sec.	A02B-0323-D561	12.1" color LCD	Mount	Not mount
21	C	Sec.	A02B-0323-D562	12.1" color LCD	Mount	Mount
22	C	Sec.	A02B-0323-D565	12.1" color LCD	Not mount	Mount
23	C	Sec.	A02B-0323-D566	12.1" color LCD	Mount	Not mount
24	C	Sec.	A02B-0323-D567	12.1" color LCD	Mount	Mount

Note) "Pri."(Primary) indicates a tested component. "Sec."(Secondary) shows one represented by the primary component in the same group.

2. No.1 of 12.1" LCD unit was tested as the primary component.
3. The primary component represents all components of their group.
4. The difference between the primary component and the secondary components are
 - 1) Touch panel
Refer table 1.
 - 2) Soft key
Refer table 1.
5. There is no other EMC relevant difference than described above.

				TITLE The Description of validity on selection of primary component for 12.1" LCD unit	
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Description of validity on selection of primary component
for I/O Unit-MODEL A

1. Variation and grouping are shown in table 1.

Table 1

No.	Group	Pri./Sec.	Spec. number	Spec. number of PCB	Variation/Remarks
1	A	Pri.	A03B-0819-C156	A20B-8000-0440	Unit name is AOD32D1
2	A	Sec.	A03B-0819-C167	A20B-8000-0510	Unit name is AOD32D2

Note) "Pri."(Primary) indicates a tested component. "Sec."(Secondary) shows one represented by the primary component in the same group.

2. No.1 of I/O Unit-MODEL A was tested as the primary component.
3. The primary component represents all components of their group.
4. The constructions of the primary component and the secondary component are shown in table 2.

Table2 Group A

No.	Spec. number	PWB	Spec. number of the output connector
1	A03B-0819-C156	A350-8002-T442	A63L-0001-0262#32PA
2	A03B-0819-C167	A350-8002-T512	A63L-0001-0472#P50R

5. The differences between the primary component and secondary component in "Group A" is

1) PWB

PWB number of secondary component is different from primary component. But it has same wiring patterns as the primary component.

2) Spec. number of the connector for output signals

Refer to the table 2 about the spec number of the connector for output signals.

6. There is no other EMC relevant difference than described above.

				TITLE The Description of validity on selection of primary component for I/O Unit-MODEL A	
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Description of validity on selection of primary component
for Terminal type I/O module

1. Variation and grouping are as shown in table 1.

Table 1

No.	Group	Pri./Sec.	Spec. number	Spec. number of PCB	Variation/Remarks
1	A	Pri.	A03B-0823-C012	A20B-2004-0850	With MPG I/F
2	A	Sec.	A03B-0823-C013	A20B-2004-0851	Without MPG I/F

Note) "Pri."(Primary) indicates a tested component. "Sec."(Secondary) shows one represented by the primary component in the same group.

2. No.1 of Terminal type I/O module was tested as the primary component.
3. The primary component represents all components of their group.
4. The constructions of the primary component and the secondary component are shown in table 2.

Table2 Group A

No.	Spec. number	PWB
1	A03B-0823-C012	A350-2004-T854
2	A03B-0823-C013	A350-2004-T854

5. The secondary components use the same PWB as the primary component.
6. The difference between the primary component and secondary component is the installation of MPG (Manual Pulse Generator) I/F. The primary component has this I/F. No.2 doesn't have it. Therefore the primary components represent PCB without MPG I/F.
7. There is no other EMC relevant difference than described above.

				TITLE The Description of validity on selection of primary component for Terminal type I/O module	
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**Description of validity on selection of primary component
for Sub panel**

1. Variation and grouping are as shown in table 1.

Table 1

No.	Group	Pri./Sec.	Spec. number	Variation/Remarks
1	A	Pri.	A02B-0236-C236	Sub panel C1, with MPG
2	A	Sec.	A02B-0236-C232	Sub panel A, without MPG
3	A	Sec.	A02B-0236-C233	Sub panel B, without MPG
4	A	Sec.	A02B-0236-C235	Sub panel B1, without MPG
5	A	Sec.	A02B-0236-C234	Sub panel C, with MPG
6	A	Sec.	A02B-0236-C244	Sub panel D, without MPG
7	A	Sec.	A02B-0236-C350	Sub panel E, without MPG
8	A	Sec.	A02B-0236-C351	Sub panel G, without MPG

Compare to the primary component, secondary components have different size and aspect of panel and have some switches missing on the panel.

We consider that secondary components are just reduced set from primary component, the size and the aspect of panel does not affect to EMC, and above secondary components do well just as tested primary component dose.

				TITLE The Description of validity on selection of primary component for Sub panel	
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The Description of validity on selection of primary component for I/O module for Operator's panel

1. Variation and grouping are as shown in table 1.

Table 1.

No.	Group	Pri./Sec	Spec. number	Variation/Remarks
1	A	Pri.	A20B-2102-0172	Input/output:24/64,With MPG interface
2	A	Sec.	A20B-2102-0173	Input/output:24/64,Without MPG interface
3	A	Sec.	A20B-2102-0170	Input/output:16/56,With MPG interface
4	A	Sec.	A20B-2102-0171	Input/output:16/56,Without MPG interface
5	B	Pri.	A20B-2004-0890	With MPG interface
6	B	Sec.	A20B-2004-0891	Without MPG interface

Note) "Pri." (Primary) indicates a tested component.

"Sec." (Secondary) is represented by the primary component in the same group.

2. No.1 and No.5 of I/O module was tested as primary component.

3. No.1 and No.5 represented No.2, No.3, No.4 and No.6 respectively.

4. Member components use the same PWB as the primary component.

5. The parts mounted on No.2, No.3, No.4 and No.6 decrease in comparison with No.1 and No.5 respectively. It is doesn't influence an EMC test.

6. There is no EMC relevant difference other than described above.

				TITLE The Description of validity on selection of primary component for I/O module for Operator's panel	
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Description of validity on selection of primary component for FROM/SRAM module

Primary* components are one. Secondary* components are two. Component listed below.

No.	Factor 1	Factor 2	Primary/Secondary	Spec. number	Variation/Remarks
1	A	A	Primary	A20B-3900-0282	FROM: 128MB SRAM: 3MB
2	A	C	Secondary	A20B-3900-0280	FROM: 128MB SRAM: 1MB
3	A	B	Secondary	A20B-3900-0281	FROM: 128MB SRAM: 2MB
4	C	C	Secondary	A20B-3900-0283	FROM: 32MB SRAM: 1MB
5	C	B	Secondary	A20B-3900-0284	FROM: 32MB SRAM: 2MB
6	C	A	Secondary	A20B-3900-0285	FROM: 32MB SRAM: 3MB
7	B	C	Secondary	A20B-3900-0286	FROM: 64MB SRAM: 1MB
8	B	B	Secondary	A20B-3900-0287	FROM: 64MB SRAM: 2MB
9	B	A	Secondary	A20B-3900-0288	FROM: 64MB SRAM: 3MB
10	B	C	Secondary	A20B-3900-0290	FROM: 64MB SRAM: 1MB
11	D	B	Secondary	A20B-3900-0291	FROM: 16MB SRAM: 2MB
12	D	A	Secondary	A20B-3900-0292	FROM: 16MB SRAM: 3MB

*) "Primary" means being the tested component that represents all components of its group.
"Secondary" means being the component represented by the related primary components.

Factor 1, the difference in "FROM": A/B/C/D (128MB / 64MB / 32 MB / 16MB)

The group of element A, B, C, D have the FROM IC that the size of theirs are "128MB", "64MB", "32MB", "16MB" respectively.

The difference between 128MB, 64MB, 32MB, 16MB are the number of FROM IC or the type of it.

Factor 2, the difference in "SRAM": A/B/C (3BM / 2MB / 1MB)

The difference between 3MB, 2MB and 1MB are the number of SRAM.

There is no other EMC relevant difference than described above.

				TITLE	The Description of validity on selection of primary component for FROM/SRAM module	
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