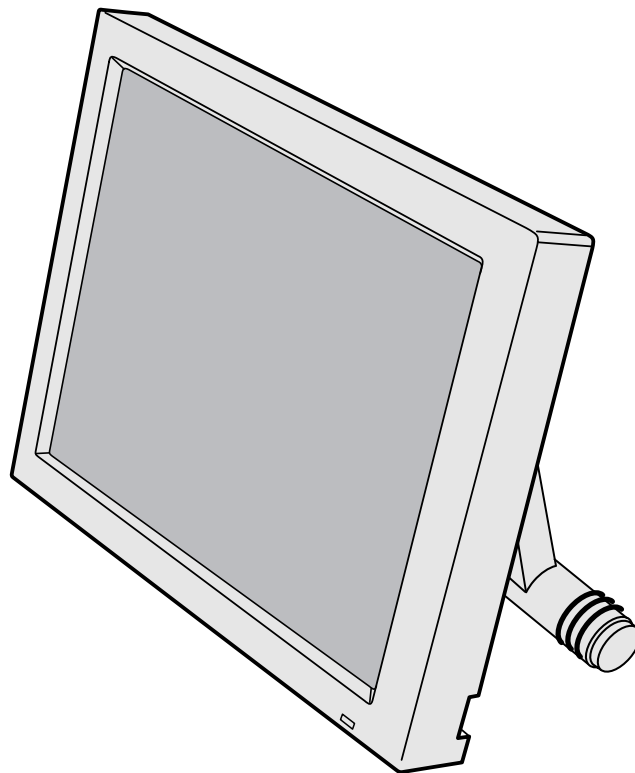


SERVICE MANUAL

INDUSTRIAL MONITOR

LMU-TK12ATC (With Touch Panel)
(GENERAL)

PRODUCT CODE NO.	
LMU-T 12ATC/SS	1 938 102 12
LMU-TK12ATC(K)/SS	1 938 102 37
LMU-TK12ATC(K)/UK	1 938 102 38



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Refer to the separate volume user's guide for instruction.

PRECAUTIONS

Placement precautions

- Avoid placing the unit in humid or dusty places, or where it will be exposed to excessive heat (direct sunlight, heaters, etc.)
- Do not step on or set anything on the AC cord.

DAMAGE TO THE AC CORD IS A SAFETY RISK AND CAN CAUSE A FIRE.

- Do not connect the unit to the same AC as outlet with appliances that generate large amounts of interference (such as heaters with thermostats, appliances with motors, etc.). It is best to use a completely separate electrical outlet.
- Keep the unit away from water. If water accidentally enters the unit, unplug the AC power cord immediately. **DO NOT PLUG IN THE UNIT AGAIN.**

Handling precautions

- Avoid bending, kinking or damaging the AC power cord.
- Never insert or remove the power cord with wet hands. Also, be sure to hold cord by the plug when removing it from the outlet.
- Do not remove any parts that are held in place with screws. (The unit does not contain any user serviceable items.)
- Maintain standard room temperature (5°C to 40°C, or 41°F to 104 °F) during use. Do not subject the unit to shock or vibration. Do not move the unit while it is in use.
- A rapid increase in room temperature in cool weather can cause condensation to form inside the unit. If this occurs, wait at least 15 minutes after turning the unit on before attempting to operate it.

1.MAIN SPECIFICATION

Display

Liquid Crystal Panel:	TFT
Display Size:	12.1"
Pixel Configuration:	800 x 600
Pixel Pitch:	0.308 x 0.308 mm
Brightness:	200 cd/m ² max.
Response Time:	50 ms
Contrast:	150 : 1 typ.
Angle of Visibility:	Left 60 degrees, Right 60 degrees, Up 30 degrees, Down 45 degrees.

Video Control

Vertical signal	55 - 77Hz
Horizontal signal:	24 - 61 kHz
Colors:	16.19 million
Adjustment Functions:	BRIGHTNESS, DOT-CLOCK, PHASE, H-POSITION, V-POSITION, LEVEL, R-LEVEL, G-LEVEL, B-LEVEL
Plug & Play:	VESA DDC1, DDC2B
Power Management:	VESA DPMS

Touch Panel

Type:	Resistive (LMU-TK12AT)	Capacitive (LMU-TK12ATC)
Electrical Resolution:	10bit (1024 x 1024)	
Communication:	Bi-directional asynchronous RS-232C serial communication	

Physical

Input:		Video	15pin mini D-SUB
		Serial	9pin D-SUB
		Power	DC jack
Dimensions(Exclude Stand):		295 (W) x 233 (D) x 42 (H) mm	
Weight:		2 kg (LMU-TK12AT)	2.2kg (LMU-TK12ATC)
Operating Conditions:		Operating Temperature	Operating: 5°C to 40°C
			Storage: -20°C to 60°C
		Humidity:	30% to 85% RH (no condensation)
Power Supply: /AC Adapter:	Model Input Output	LMU-TK12AT GI40-US1225 100-240V 50-60Hz 12v 2.6A	LMU-TK12ATC GI40-US1225 100-240VAC 1.0A-0.55A, 50-60Hz DC 12v 2.5A
Power Consumption:		20 W (5W in Energy Saving mode)	

2. TROUBLE SHOOTING

The "TROUBLESHOOTING for LCD Monitor" is described in below. Please refer to the manual "TROUBLE SHOOTING for Touch-Screen" in CD-ROM.

No.	SYMPTOM	CHECK POINTS		TREATMENTS	
1	No Picture with Power Indicator OFF	1	Is the Power to a LCD monitor "ON"?	Check AC outlet, AC cord, DC Jack and Power switch for a LCD monitor	◎
		2	Is an AC Adapter defective?	Replace an AC Adapter with the new one	◇
		3	Is the wire harness between main PCB and DC-IN PCB secured firmly ?	Check the connection	◇
		4	The Power Supply circuit on main PCB may be defective	Replace the main PCB with the new one	◇
2	No Picture with Power Indicator in Amber	1	Is the Power to a computer "ON"?	Check AC outlet, AC cord, DC Jack and Power switch for a computer	◎
		2	Is a computer standing by ?	Be out of standing by condition, by operating to a computer	◎
		3	The Image Processing circuit on main PCB may be defective	Replace the main PCB with the new one	◇
3	No Picture with Power Indicator in Green	1	Is a screen saver programming running ?	Press any key or touch the mouse, to end the screen saver program	◎
		2	Is a signal cable connected securely ?	Check the connection of a signal cable	◎
		3	Disconnected a signal cable ? or Bent a terminal pin ?	Replace a signal cable with the new one	△
		4	Is the computer's signal timing not agreeable to the LCD's specification ?	Adjust the computer's signal timing, if possible	◎
		5	Is the wire harness between Inverter PCB and a LCD module secured firmly ?	Check the connection of wire harness	◇
		6	Is the wire harness between main PCB and Inverter PCB secured firmly ?	Check the connection of wire harness	◇
		7	The Brightness control volume may be defective	Replace the Volume PCB with new one, and check the screen	◇
		8	The LCD module may be defective	Replace a LCD module with the new one	◇
		9	The Inverter unit may be defective	Replace an Inverter unit with the new one	◇
		10	The display circuit on main PCB may be defective ?	Replace the main PCB with the new one	◇
4	No Picture with Power Indicator blinking in Green	1	Is a computer standing by ?	Be out of standing by condition, by operating to a computer	◎
		2	Is a signal cable connected securely ?	Check the connection of a signal cable	◎
		3	Disconnected a signal cable ? or Bent a terminal pin ?	Replace a signal cable with the new one	△

◎ It is possible to treated by end-user

◇ It must be treated by Professional Technical Staff

△ It might be possible to treat by end-user in some case.

No.	SYMPTOM	CHECK POINTS		TREATMENTS	
5	White/Grey on whole screen (Nothing on screen)	1	Is the wire harness between main PCB and LCD module secured firmly ?	Check the connection of wire harness	◇
		2	Is the LCD module defective ?	Replace a LCD module with the new one	◇
		3	Is the main PCB defective ?	Replace the main PCB with the new one	◇
6	Screen's display range is incorrect	1	Is the adjustment for screen performed correctly ?	Adjust the screen correctly	◎
		2	Is the output level on image from a computer not agreeable to LCD's specification ?	Check the specification of a computer	△
		3	Is the size of screen set correctly ?	Set the size of screen again(refer to User's Manual for computer)	◎
7	Screen is distorted	1	Is the adjustment for screen performed correctly ?	Adjust the screen correctly	◎
		2	Is a signal cable connected securely ?	Check the connection of a signal cable	◎
		3	Is a signal cable extended ?	Don't extend a signal cable	◎
		4	Is the output level on image from a computer not agreeable to LCD's specification ?	Check the specification of a computer	△
		5	The Image Processing circuit on main PCB may be defective	Replace the main PCB with the new one	◇
8	Part of colors(R/G/B) is not displayed Black line is appeared vertically	1	Is a signal cable connected securely ?	Check the connection of a signal cable	◎
		2	Is the connection between main PCB and a LCD module securely ?	Check the connector	◇
		3	The Image Processing circuit on main PCB may be defective	Replace the main PCB with the new one	◇

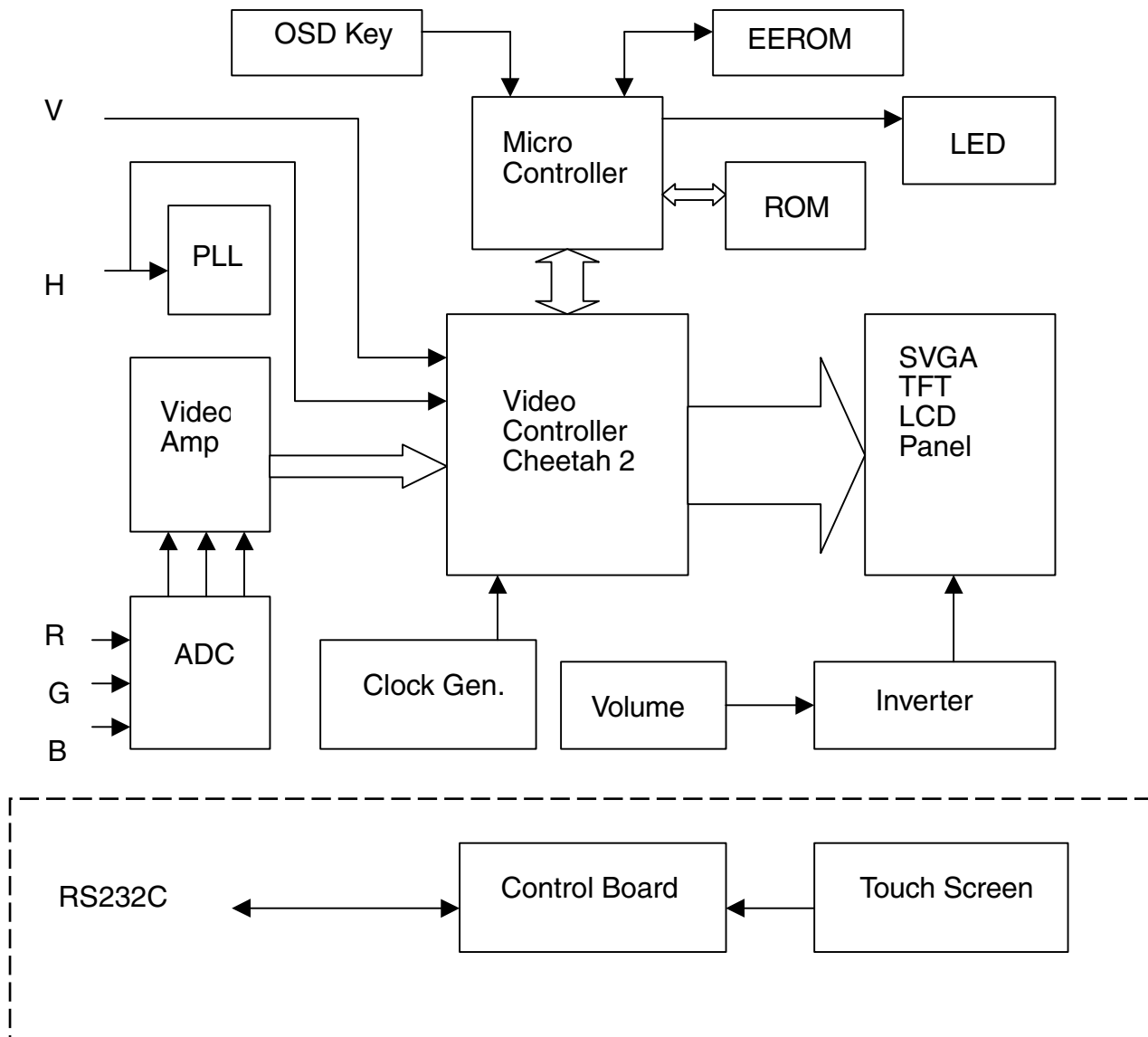
- ◎ It is possible to treated by end-user
◇ It must be treated by Professional Technical Staff
△ It might be possible to treat by end-user in some case

3 MAINTENANCE

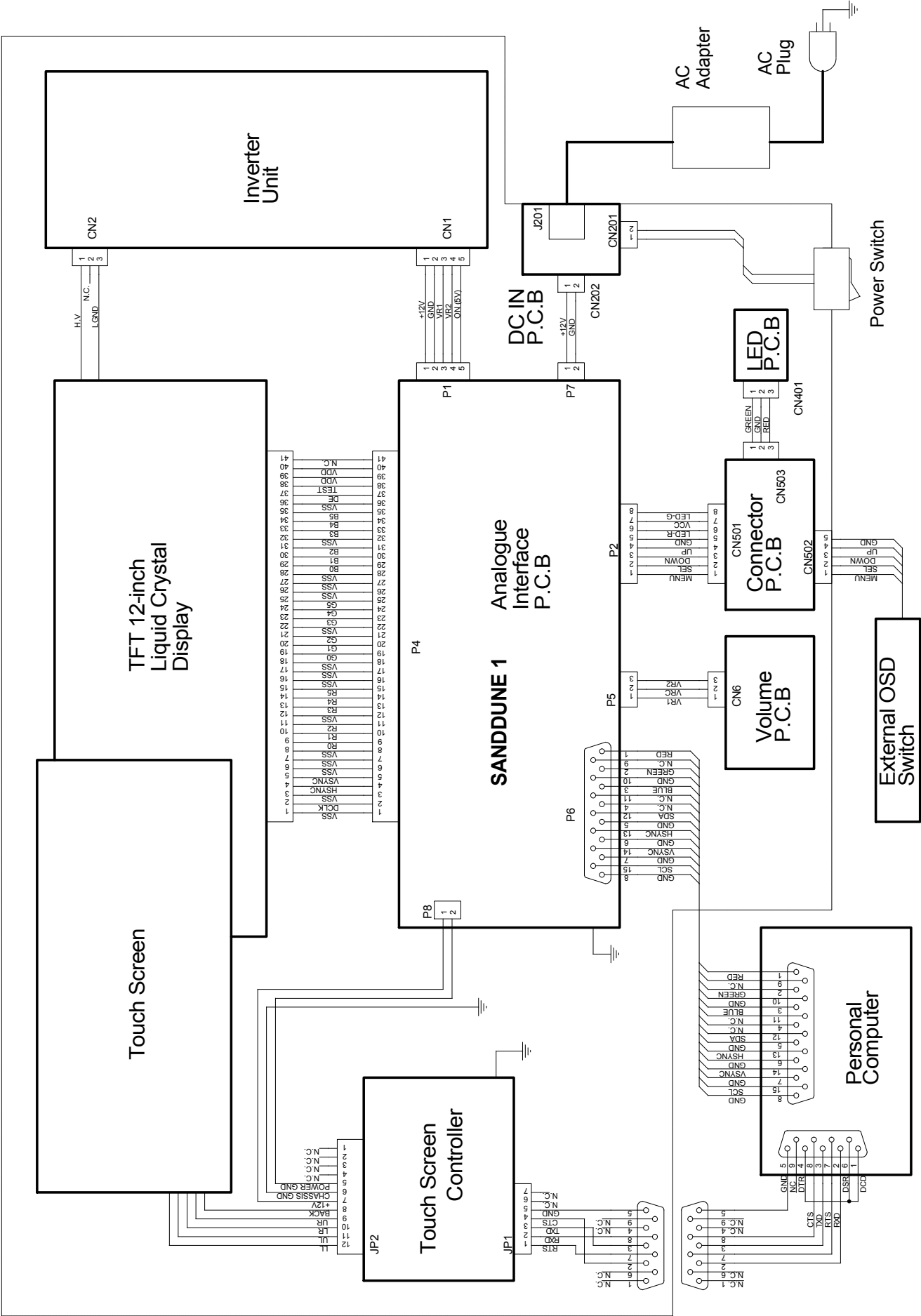
Disassembling the major components

- (1) Cabinet
 1. Unscrew to secure the cabinet (8-position)
 2. Pull the cabinet upward to remove it
- (2) LCD Panel and Touch Panel
 1. The Touch panel is on the LCD panel. The clearance between the Touch Panel and the bottom case are filled with 8 rubber pieces. Pull the right side of the Touch panel upward carefully, then turn it over at the left side of the bottom case.
 2. Unscrew to secure the LCD panel (4-position)
 3. Pull the LCD panel up carefully. Disconnect the FPC from main PCB, and pull the connector out to inverter unit.
 4. Unscrew to secure the earth terminal (1-position)
 5. Disconnect the cable on the main PCB (Orange, Grey)
 6. Disconnect the cable on the Touch controller PCB
- (3) Inverter Unit
 1. Unscrew to secure the Inverter Unit (3-position)
 2. Disconnect the cable from the main PCB
- (4) Main PCB
 1. Pull the RGB signal cable out
 2. Unscrew to secure the main PCB (4-position)
 3. Disconnect the cables on the main PCB (6-position)
 - / Two cables have already been disconnected
 - / One connector from the Joint PCB
 - / One connector from the VR PCB
 - / One connector from the DC-IN PCB
 - / One connector from the Inverter PCB
 4. Unscrew to secure the bracket for RGB Connector (2-position)
- (5) Touch Controller PCB
 1. Unscrew to secure the Touch controller PCB (2-position)
 2. Disconnect the serial cable
- (6) Serial Cable (Connector and Cable with bracket)
 1. Unscrew to secure the bracket for serial cable (2-position)
- (7) Joint PCB
 1. Unscrew to secure the Joint PCB (2-position)
 2. Disconnect the cables from the main PCB and the LED PCB
- (8) VR PCB
 1. Unscrew to secure the VR PCB (2-position)
 2. Disconnect the cable to the main PCB
- (9) DC-IN PCB
 1. Unscrew to secure the DC-IN PCB (2-position)
 2. Disconnect one cable from Power Switch, and another cable from the main PCB
- (10) Power Switch
 1. Remove the Power Switch, while pressing the hook of the Power Switch
- (11) LED PCB
 1. Unscrew to secure the LED PCB (1-position)
 2. One cable has already been disconnected.

4 BLOCK DIAGRAM



5. CONNECTION DIAGRAM



6. TABLE OF SIGNAL NAME

Symbol	Signal Name	Location	Notes
DCLK	Data Clock	P4-2	
HSYNC	Horizontal Sync.	P4-4	This signal is invalid, input H or L.
VSYNC	Vertical Sync.	P4-5	This signal is invalid, input H or L.
R0	Red Data (LSB)	P4-9	
R1	Red Data	P4-10	
R2	Red Data	P4-11	
R3	Red Data	P4-13	
R4	Red Data	P4-14	
R5	Red Data (MSB)	P4-15	
G0	Green Data (LSB)	P4-19	
G1	Green Data	P4-20	
G2	Green Data	P4-21	
G3	Green Data	P4-23	
G4	Green Data	P4-24	
G5	Green Data (MSB)	P4-25	
B0	Blue Data (LSB)	P4-29	
B1	Blue Data	P4-30	
B2	Blue Data	P4-31	
B3	Blue Data	P4-33	
B4	Blue Data	P4-34	
B5	Blue Data (MSB)	P4-35	
DE	Data Enable (positive)	P4-37	
TEST	Display test	P4-38	For display test, to be L.
VDD	Power Supply	P4-39	3.3V
VDD	Power Supply	P4-40	3.3V
VIN	Inverter Power	P1-1	12V
VR1,2	Controlled Voltage	P13,4	
ON	Back Light Control	P1-5	H : Light ON
VR1,2	Brightness Volume	P5-1,3	
VRC	Brightness Volume	P5-2	
MENU	MENU Key	P2-1	
SEL	SELECT Key	P2-2	
DOWN	DOWN Key	P2-3	
UP	UP Key	P2-4	
LED-R	LED Red	P2-6	
LED-G	LED Green	P2-8	
RED	VIDEO Red Signal	P6-1	
GREEN	VIDEO Green Signal	P6-2	
BLUE	VIDEO Blue Signal	P6-3	
HSYNC	Horizontal Sync.	P6-13	
VSYNC	Vertical Sync.	P6-14	
SDA	DDC Data	P6-12	
SCL	DDC Clock	P6-15	
VR1,2	Controlled Voltage	P1-3,4	
ON	Back Light Control	P1-5	H : Light ON

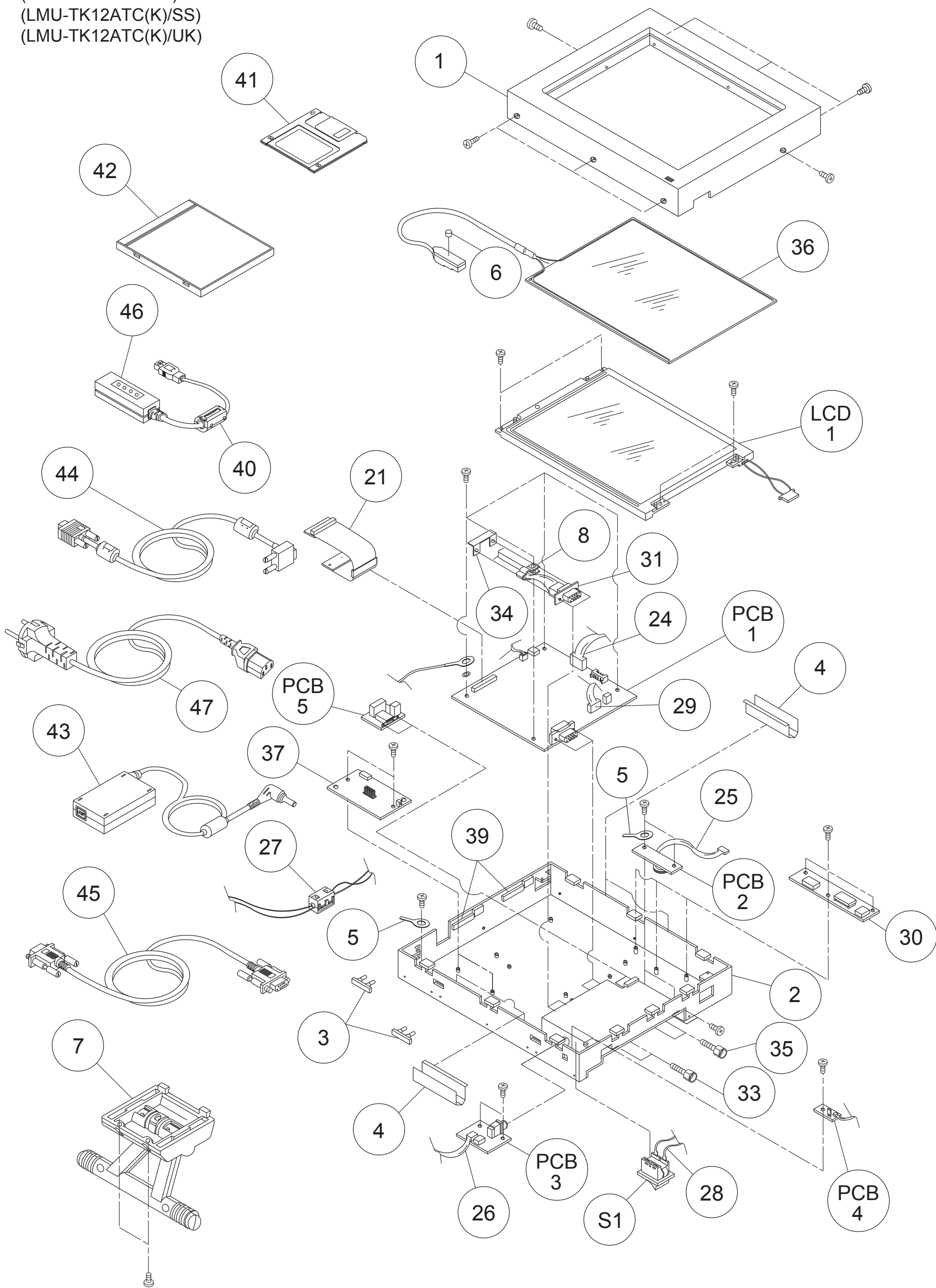
6. TABLE OF SIGNAL NAME

Touch Screen Controller

Symbol	Signal Name	Location	Notes
RTS	Request To Send	JP1-1	
RXD	Receive Data	JP1-2	
TXD	Transmit Data	JP1-3	
CTS	Clear To Send	JP1-4	
DCD	Data Carrier Detect	NC	
DTR	Data Terminal Ready	NC	
GND	Signal ground	NC	
DSR	Data Set Ready	NC	
GND	Chassis (earth) ground	NC	
UR	Upper right (UR) corner	JP2-9	
LR	Lower right (LR) corner	JP2-10	
UL	Upper left (UL) corner	JP2-11	
LL	Lower left (LL) corner	JP2-12	

7. EXPLODED VIEW AND PART RLIST

(LMU-TK12ATC/SS)
(LMU-TK12ATC(K)/SS)
(LMU-TK12ATC(K)/UK)



7-2. PARTS LIST

[LMU-TK12ATC/SS]

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Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol  in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with  use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

Ref. No.	PART No.	DESCRIPTION	Q'ty
OUTER			
	632 872 2563	OUTER CARTON,TC(K)	1
	632 758 4209	LABEL, BAR CODE	1
INDIVIDUAL			
	632 872 2570	PAD, BOTTOM	1
	632 872 2587	PAD, SIDE	1
	632 872 2594	PAD, ACCESSORY	1
	632 872 2600	PAD, TOP	1
	632 298 2376	POLYETHYLENE BAG	1
		SERIAL CABLE CNT	
	632 822 4425	POLYETHYLENE BAG, 300X450	1
	632 607 4824	POLYETHYLENE BAG,L180X270	1
		MANUAL	
	632 567 2588	POLYETHYLENE BAG, 200X300	1
		RGB CABLE	
	632 607 4824	POLYETHYLENE BAG,L180X270	1
		SERIAL CABLE	
ACCESSORY			
41	632 860 9925	FLOPPY DISK	1
42	632 867 2325	CD-ROM DISK, TOUCHWARE	1
	632 869 1968	INSTRUCTION MANUAL,ENGLIS	1
	632 892 8422	LEAFLET, ADAPTOR	1
	632 869 1975	INSTRUCTION MANUAL,GERMAN	1
	661 000 1031	LEAFLET, CE	1
43	632 880 5488	AC ADAPTOR	1
44	632 873 4696	VGA CABLE, 150CM	1
45	632 866 8397	SERIAL CABLE, 1.8M	1
46	632 876 9834	REMOTE CONTROLLER ASS'Y	1
	632 875 1815	CONTROL BOX	1
	632 876 9841	LABEL,	1
	632 887 7072	CORE, 50	1
	661 001 7278	CORE	1
OR			
OR			
47	632 876 0480	CORE, 50	1
OR	632 873 0926	AC CORD,	1
47 OR	632 880 1596	AC CORD, 1.8M	1
CABINET			
1	632 880 1336	TOP LID ASSY	1
CHASSIS			
2	661 037 0427	BOTTOM LID ASSY	1
3	632 868 5615	BASE, CUSHION	2
	411 001 8702	SCR BIN 3X6	2
		CHASSIS - DC-IN	
	411 030 8803	SCR BIN 2.5X6,CHASSIS-VR	2
	411 030 6403	SCR BIN 2X5	3
		CHASSIS - INV.	
	411 030 6403	SCR BIN 2X5	2
		CHASSIS - JOINT	
	411 001 8702	SCR BIN 3X6	2
		CHASSIS - CONTROL	
	411 001 8702	SCR BIN 3X6	3
		CHASSIS - MAIN	
8	411 008 0402	WASHER OUT TW 3	1
	632 886 5789	CLAMP	1
	411 001 8900	SCR BIN 3X8	1

Ref. No.	PART No.	DESCRIPTION	Q'ty
	411 001 8702	CLAMP-MAIN-CHASSIS	1
		SCR BIN 3X6	
	411 001 8702	CHASSIS - LED PCB	4
		SCR BIN 3X6	
		LCD - CHASSIS	
	632 888 1598	LABEL, TIK	1
4	632 872 9777	PLATE SPRING, EARTH	4
		LCD - BOTTOM	
5	632 250 0655	WIRE FIXTURE	2
	411 030 5000	SCR BIN 2X3	1
		WIRE FIX.-CHASSIS	
6	632 887 8260	CUSHION, FELT, FELT	1
		TOUCH PANEL CN	
CHARGER			
7	661 020 3398	STAND ASSY	1
	411 041 8700	SCR PAN 3X6	2
	632 607 4732	POLYETHYLENE BAG,L 70X100	1
	632 607 4855	POLYETHYLENE BAG,L 260X380	1
CHASSIS ELC.			
21	632 880 1442	FPC BOARD ASS'Y	1
24	632 868 6261	WIRE HARNESS, MAIN-INV.	1
25	632 873 7796	WIRE HARNESS, MAIN-VOLUME	1
26	632 868 6247	WIRE HARNESS, MAIN-DC IN	1
27	632 837 2713	CORE	1
		HARNESS MAIN-DC IN	
28	632 873 7802	WIRE HARNESS, DC IN-PWR	1
29	632 869 6796	WIRE HARNESS, MAIN-JOINT	1
40	661 002 9882	CORE	1
30	661 037 0113	DC-AC INVERTER ASSY	1
31	632 861 4868	CABLE, RS232C	1
33	661 001 2570	SPECIAL SCREW,CABLE	2
34	632 889 5083	BRACKET, SERIAL,CABLE	1
35	632 773 6011	SPECIAL SCREW,P6(VGA)	2
LCD1	632 884 7655	LIQUID CRYSTAL DISPLAY,	1
36	661 021 0624	TOUCH SENSOR ASSY	1
37	632 886 2443	SERIAL CONTROLLER	1
S1	632 887 8024	SEESAW SWITCH	1
39	632 873 4139	GASKET	2
MAIN P.C.B. ASSEMBLY			
PCB1	661 019 8946	PW BOARD ASSY, MAIN	1
VR P.C.B. ASSEMBLY			
PCB2	632 843 3469	PW BOARD ASSY, VR	1
DC IN P.C.B. ASSEMBLY			
PCB3	632 873 4146	PW BOARD ASS'Y, DC IN	1
LED P.C.B. ASSEMBLY			
PCB4	632 869 5256	PW BOARD ASS'Y, LED	1
JOINT P.C.B. ASSEMBLY			
PCB5	632 869 5263	PW BOARD ASS'Y, JOINT	1

- NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.
3. Regular type resistor and capacitor are omitted. Check the schematic diagram for these values.

[LMU-TK12ATC(K)/SS]

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Ref. No.	PART No.	DESCRIPTION	Q'ty
OUTER			
	632 872 2563 632 758 4209	OUTER CARTON,TC(K) LABEL, BAR CODE	1 1
INDIVIDUAL			
	632 872 2570 632 872 2587 632 872 2594 632 872 2600 632 298 2376	PAD, BOTTOM PAD, SIDE PAD, ACCESSORY PAD, TOP POLYETHYLENE BAG	1 1 1 1 1
	632 822 4425 632 607 4824	SERIAL CABLE CNT POLYETHYLENE BAG, 300X450 POLYETHYLENE BAG,L180X270	1 1
	632 567 2588 632 607 4824	MANUAL POLYETHYLENE BAG, 200X300 RGB CABLE POLYETHYLENE BAG,L180X270 SERIAL CABLE	1 1
ACCESSORY			
41	632 860 9925	FLOPPY DISK	1
42	632 867 2325	CD-ROM DISK, TOUCHWARE	1
	632 869 1968	INSTRUCTION MANUAL,ENGLIS	1
	632 892 8422	LEAFLET, ADAPTOR	1
	632 869 1975	INSTRUCTION MANUAL,GERMAN	1
	661 000 1031	LEAFLET, CE	1
43	632 880 5488	AC ADAPTOR	1
44	632 873 4696	VGA CABLE, 150CM	1
45	632 866 8397	SERIAL CABLE, 1.8M	1
46	632 876 9834	REMOTE CONTROLLER ASS'Y	1
	632 875 1815	CONTROLL BOX	1
	632 876 9841	LABEL,	1
	632 887 7072	CORE, 50	1
OR	661 001 7278	CORE	1
OR	632 876 0480	CORE, 50	1
47	 632 873 0926	AC CORD,	1
47 OR	 632 880 1596	AC CORD, 1.8M	1
CABINET			
1	661 021 1898 411 174 2705	TOP LID ASSY SCR BIN 2.5X5 TOP LID - BOTTOM	1 8
CHASSIS			
2	661 021 2468	BOTTOM LID ASSY	1
3	632 868 5615	BASE, CUSHION	2
	411 001 8702	SCR BIN 3X6	2
	411 030 8803	CHASSIS - DC-IN	2
	411 030 6403	SCR BIN 2.5X6,CHASSIS-VR	3
	411 030 6403	CHASSIS - INV.	2
	411 001 8702	SCR BIN 2X5	2
	411 001 8702	CHASSIS - JOINT	3
	411 008 0402	SCR BIN 3X6 CHASSIS - MAIN WASHER OUT TW 3	1

Ref. No.	PART No.	DESCRIPTION	Q'ty
8	632 886 5789 411 001 8900	CLAMP SCR BIN 3X8	1 1
	411 001 8702	CLAMP-MAIN-CHASSIS SCR BIN 3X6	1
	411 001 8702	CHASSIS - LED PCB SCR BIN 3X6	4
4	632 872 9777	LCD - CHASSIS PLATE SPRING, EARTH	4
5	632 250 0655 411 030 5000	LCD - BOTTOM WIRE FIXTURE SCR BIN 2X3	2 1
6	632 887 8260	WIRE FIX.-CHASSIS CUSHION, FELT, FELT TOUCH PANEL CN	1
CHARGER			
7	661 020 3398 411 041 8700 632 607 4732 632 607 4855	STAND ASSY SCR PAN 3X6 POLYETHYLENE BAG,L 70X100 POLYETHYLENE BAG,L 260X380	1 2 1 1
CHASSIS ELC.			
21	632 880 1442	FPC BOARD ASS'Y	1
24	632 868 6261	WIRE HARNESS, MAIN-INV.	1
25	632 873 7796	WIRE HARNESS, MAIN-VOLUME	1
26	632 868 6247	WIRE HARNESS, MAIN-DC IN	1
27	632 837 2713	CORE HARNESS MAIN-DC IN	1
28	632 873 7802	WIRE HARNESS, DC IN-PWR	1
29	632 869 6796	WIRE HARNESS, MAIN-JOINT	1
40	661 002 9882	CORE	1
30	632 880 1428	DC-AC INVERTER ASS'Y	1
31	632 861 4868	CABLE, RS232C	1
33	661 001 2570	SPECIAL SCREW,CABLE	2
34	632 889 5083	BRACKET, SERIAL,CABLE	1
35	632 773 6011	SPECIAL SCREW,P6(VGA)	2
LCD1	632 884 7655	LIQUID CRYSTAL DISPLAY,	1
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PCB1	661 019 8946	PW BOARD ASSY, MAIN	1
VR P.C.B. ASSEMBLY			
PCB2	632 843 3469	PW BOARD ASS'Y, VR	1
DC IN P.C.B. ASSEMBLY			
PCB3	632 873 4146	PW BOARD ASS'Y, DC IN	1
LED P.C.B. ASSEMBLY			
PCB4	632 869 5256	PW BOARD ASS'Y, LED	1
JOINT P.C.B. ASSEMBLY			
PCB5	632 869 5263	PW BOARD ASS'Y, JOINT	1

- NOTES:
1. Part orders must contain Model Number, Part Number and Description.
 2. Ordering quantity of screws and resistors must be multiple of 10 pcs.
 3. Regular type resistor and capacitor are omitted. Check the schematic diagram for these values.

[LMU-TK12ATC(K)/UK]

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Ref. No.	PART No.	DESCRIPTION	Q'ty
OUTER			
	632 872 2563	OUTER CARTON,TC(K)	1
	632 758 4209	LABEL, BAR CODE	1
INDIVIDUAL			
	632 872 2570	PAD, BOTTOM	1
	632 872 2587	PAD, SIDE	1
	632 872 2594	PAD, ACCESSORY	1
	632 872 2600	PAD, TOP	1
	632 298 2376	POLYETHYLENE BAG	1
		SERIAL CABLE CNT	1
	632 822 4425	POLYETHYLENE BAG, 300X450	1
	632 607 4824	POLYETHYLENE BAG,L180X270	1
		MANUAL	1
	632 567 2588	POLYETHYLENE BAG, 200X300	1
		RGB CABLE	1
	632 607 4824	POLYETHYLENE BAG,L180X270	1
		SERIAL CABLE	1
ACCESSORY			
41	632 860 9925	FLOPPY DISK	1
42	632 867 2325	CD-ROM DISK, TOUCHWARE	1
	632 869 1968	INSTRUCTION MANUAL,ENGLIS	1
	632 892 8422	LEAFLET, ADAPTOR	1
	661 000 1031	LEAFLET, CE	1
43	632 880 5488	AC ADAPTOR	1
44	632 873 4696	VGA CABLE, 150CM	1
45	632 866 8397	SERIAL CABLE, 1.8M	1
46	632 876 9834	REMOTE CONTROLLER ASS'Y	1
	632 875 1815	CONTROL BOX	1
	632 876 9841	LABEL,	1
	632 887 7072	CORE, 50	1
OR	661 001 7278	CORE	1
OR	632 876 0480	CORE, 50	1
47	632 892 0792	AC CORD, 1.8M	1
47 OR	632 893 2610	AC CORD, 1.8M	1
CABINET			
1	632 880 1336	TOP LID ASSY	1
CHASSIS			
2	661 021 2468	BOTTOM LID ASSY	1
3	632 868 5615	BASE, CUSHION	2
	411 001 8702	SCR BIN 3X6	2
		CHASSIS - DC-IN	2
	411 030 8803	SCR BIN 2.5X6,CHASSIS-VR	2
	411 030 6403	SCR BIN 2X5	3
		CHASSIS - INV.	2
	411 030 6403	SCR BIN 2X5	2
		CHASSIS - JOINT	2
	411 001 8702	SCR BIN 3X6	2
		CHASSIS - CONTROL	3
	411 001 8702	SCR BIN 3X6	3
		CHASSIS - MAIN	1
8	411 008 0402	WASHER OUT TW 3	1
	632 886 5789	CLAMP	1
	411 001 8900	SCR BIN 3X8	1
		CLAMP-MAIN-CHASSIS	1
CHARGER			
7	661 020 3398	STAND ASSY	1
	411 041 8700	SCR PAN 3X6	2
	632 607 4732	POLYETHYLENE BAG,L 70X100	1
	632 607 4855	POLYETHYLENE BAG,L 260X380	1
CHASSIS ELC.			
21	632 880 1442	FPC BOARD ASS'Y	1
24	632 868 6261	WIRE HARNESS, MAIN-INV.	1
25	632 873 7796	WIRE HARNESS, MAIN-VOLUME	1
26	632 868 6247	WIRE HARNESS, MAIN-DC IN	1
27	632 837 2713	CORE	1
		HARNESS MAIN-DC IN	1
28	632 873 7802	WIRE HARNESS, DC IN-PWR	1
29	632 869 6796	WIRE HARNESS, MAIN-JOINT	1
40	661 002 9882	CORE	1
30	661 037 0113	DC-AC INVERTER ASSY	1
31	632 861 4868	CABLE, RS232C	1
33	661 001 2570	SPECIAL SCREW,CABLE	2
34	632 889 5083	BRACKET, SERIAL,CABLE	1
35	632 773 6011	SPECIAL SCREW,P6(VGA)	2
LCD1	632 884 7655	LIQUID CRYSTAL DISPLAY,	1
36	661 021 0624	TOUCH SENSOR ASSY	1
37	632 886 2443	SERIAL CONTROLLER	1
S1	632 887 8024	SEESAW SWITCH	1
39	632 873 4139	GASKET	2
MAIN P.C.B. ASSEMBLY			
PCB1	661 019 8946	PW BOARD ASSY, MAIN	1
VR P.C.B. ASSEMBLY			
PCB2	632 843 3469	PW BOARD ASS'Y, VR	1
DC IN P.C.B. ASSEMBLY			
PCB3	632 873 4146	PW BOARD ASS'Y, DC IN	1
LED P.C.B. ASSEMBLY			
PCB4	632 869 5256	PW BOARD ASS'Y, LED	1
JOINT P.C.B. ASSEMBLY			
PCB5	632 869 5263	PW BOARD ASS'Y, JOINT	1

- NOTES:
- Part orders must contain Model Number, Part Number and Description.
 - Ordering quantity of screws and resistors must be multiple of 10 pcs.
 - Regular type resistor and capacitor are omitted. Check the schematic diagram for these values.

APPENDIX

Version of Firmware

The Version of Firmware is displayed on screen.

Turn the Power Switch to 'OFF'. While pressing of the [SELECT] button, turn the Power Switch to 'ON'.