Service Manual

Model No. TH-65C300K TH-65C300M TH-65C300T



\land WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE =

There are special components used in this equipment which are important for safety. These parts are marked by Δ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.



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1 Safety Precautions

1.1. General Guidelines

- 1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- 3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.
- 4. When conducting repairs and servicing, do not attempt to modify the equipment, its parts or its materials.
- 5. When wiring units (with cables, flexible cables or lead wires) are supplied as repair parts and only one wire or some of the wires have been broken or disconnected, do not attempt to repair or re-wire the units. Replace the entire wiring unit instead.
- 6. When conducting repairs and servicing, do not twist the Faston connectors but plug them straight in or unplug them straight out.

1.1.1. Leakage Current Cold Check

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be 8.5Mohm to 13Mohm.

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

1.1.2. Leakage Current Hot Check (See Figure 1.)

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5kohm, 10 watts resistor, in parallel with a 0.15μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.



Figure 1

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor [chip] components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as [anti-static (ESD protected)] can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise ham less motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

2.2. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol **PbF** stamped on the back of PCB. **Caution**

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).
 If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



3 Service Navigation

3.1. Service Hint



Board Name	Main Device	Remarks
A BOARD	TUN, EEP, SPI, MTK IC	
P BOARD	Power Supply	All because one one construction of a because the
K BOARD	Кеу	All boards are non-repairable and should be exchanged for service
IR BOARD	Remote	exchanged for service
LD BOARD	LED Driver	

4 Specifications

Dimensions (W $ imes$ H $ imes$ D)	1 462.5 mm × 91	2.6 mm \times 295 mm (With Pedestal)	
Mass	1 462.5 mm × 84	9 mm × 80 mm (TV only) Pedestal)	
mass	24.5 kg Net (TV c	only)	
Power source	AC 220-240 V, 50) / 60 Hz (TH-65C300K and TH-65C300]	Γ)
	AC Auto 110-240	V, 50 / 60 Hz (TH-65C300M)	
Rated power consumption	170 W		
Standby power consumption	0.50 W		
Visible screen size (diagonal)	164 cm	2.4.1	
Display resolution	1 920 (W) × 1 08	U (H)	
Connection terminals	LCD panel (LED	Dacklight)	
		BCA PIN Type \times 1.1.0 V[n-n] (75.0)	
(COMPONENT / VIDEO)		Mini PIN Type 0.5 V[rms]	
	Y	1.0 V[p-p] (including synchronisation)	
	Рь/Сь. Рь/Сь	±0.35 V[p-p]	
HDMI 1 / 2 input	TYPE A Connect	ors	
USB	USB 2.0 TYPE A	Connectors	
	DC 5 V. Max. 500	0 mA	
SPDIF	PCM / Dolby Digi	tal, Coaxial	
VGA	DB15 Socket		
Analogue Audio Out	Mini PIN Type, 3	53 - 707 mV[rms]	
Sound			
Audio output	20 W (10 W + 10	W)	
Receiving systems / Band name	_	12 SYSTEMS	FUNCTION
	1	PAL B, G	
	2	PALI	Reception of broadcast
	3	PAL D, K	
	4	SECAM B, G	
	5	SECAM D, K	
	6	SECAM L	
	1		Disvisedy from Createl VCD's or DVD
	8		Playback from Special VCR's of DVD
	9		
	10	PAL 60 Hz / 6.0 MHz	Playback from Special Disc Players and
	12	PAL 60 Hz / 6.5 MHz	Special VCR's or DVD
Digital TV	7 MHz VHF / 8 M	Hz UHF free-to-air TV broadcast reception	on
Receiving channels (Analogue TV)			
VHF BAND	2 - 12	(PAL / SECAM B, K1)	
	0 - 12	(PAL B AUST.)	
	1 - 9	(PAL B N.Z.)	
	1 - 12	(PAL / SECAM D)	
	1 - 12	(NTSC M Japan)	
	2 - 13	(NTSC M USA)	
UHF BAND	21 - 69	(PAL G, H, I / SECAM G, K, K1)	
	28 - 69	(PAL B AUST.)	
	13 - 57	(PAL D, K)	
	13 - 62		
CATV	14 - 69	(NTSC M USA)	
GAIV	01 - 020 1 - 125		
	C13 - C40	(JAPAN)	
	<u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u>	(HYPER)	
	71 - 737	(CHINA)	
	5A 9A	(AUST.)	
Aerial input	VHF / UHF		
Operating Conditions	Temperature : 0	°C - 40°C	
	Humidity: 20 %	- 80 % RH (non-condensing)	

Note

• Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

5 Test and Alignment

5.1. Factory Menu Description

Follow the below steps to pop-up the Factory menu in case of "FactoryKey" is disabled:

- Press RCU "MENU" key to display main menu
- Select "Picture" and press "OK" key to enter into Picture submenu
- Scroll down to "Contrast" item
- Press the subsequence RCU keys "9", "7", "3" and "5"

In case of **"FactoryKey**" is enabled, just press RCU **"Return**" key to pop-up again the Factory menu. The status of **"Factory Key**" can be changed in **"Factory Menu->Hotkey**"

- Press RCU "**OK**/**▶**" key to enter the submenu.
- Press RCU "Menu" key to go back to the root menu.
- Press RCU "◀/▶" key to change the values.
- Press RCU "**OK**" key run the function.
- Press RCU "Exit" key exit the Factory menu.

1 - Hotkey submenu

ltem	Sub-item	Value	Note
Hotkey		Off/On	Enable Hotkey flag by pressing "◀▶" key to have
			possibility to access Fac- tory menu with "RETURN" key (default is disabled)

2 - Warm-Up Mode submenu

Item	Sub-item	Value	Note
Burning		Off/On	Enable Burning mode by
Mode			pressing "◀▶" key, then
			press "EXIT" key to activate
			it Press "Menu" key on
			local keyboard to exit the
			Burning mode

3 - ADC submenu (N/A - menu reains grayed)

4 - White Balance submenu

ltem	Sub-item	Value	Note
White Balance	Source	HDMI/VGA/DTV PAL/SECAM NTSC/RGB/CMP	Select by pressing "◀▶" key
	Color Temperature	Normal/Warm/Cool	Select Tone by pressing " ∢ ▶" key
	RED Gain	000255	Set R Gain by pressing "◀▶" key (-127+128 for offset)
	GREEN Gain	000255	Set G Gain by pressing "◀▶" key (-127+128 for offset)
	BLUE Gain	000255	Set B Gain by pressing "◀▶" key (-127+128 for offset)
	RED Offset	000255	Set R Offset by pressing "◀▶" key (-127+128 for offset)

Item	Sub-item	Value	Note
	GREEN Offset	000255	Set G Offset by pressing
			"◀▶" key (-127+128 for
			offset)
	BLUE Offset	000255	Set B Offset by pressing
			"◀▶" key (-127+128 for
			offset)
	White Balance Init	>	Press "▶" key to initialize
			RGB
			Gain/Offset values
	Pic. Enhance	On/Off	Press " " key to disable
			all picture settings from
			Feature submenu. This
			should be done before
			any White Balance
			alignment (flag is restored
			to Off after Shop-End)
	Picture Related	>	Press "▶″ key to activate
		0.10%	submenu
Picture	Flesh tone	On/Off	Press "◀▶″ key to enable/
Related			disable
	Adaptive Luma Control	On/Off	Press "◀▶″ key to enable/
			disable
	Light Sensor	On/Off	Press "◀▶" key to enable/
			disable
	Dynamic Backlight	Low	Select by pressing "
		Medium	кеу
		High	
	Deals light	Auto	Oct. Decklight has not come
	Back light	000100	Set Backlight by pressing
		000 100 (0074)	
	ADP Control Low Point	000100 (007d)	Set ADP Low by pressing
	ADD Control Middle Doint	000 100 (0574)	Cat ADD id by pressing
	ADP Control Middle Point	000100 (057d)	Set ADP id by pressing
	ADD Control High Doint	000 100 (1004)	Set ADD High by pressing
		000100 (1000)	" ▲ N " kov
	Sooling Prightnoon	000 255	Sot SoBrigh by proposing
	Scaling Brightness	000255	" ▲ N" kov (127 ±128 for
			Key (-127+126 101 offset)
	Scaling Contract	000 255	Set ScCont by pressing
	Scaling Contrast	000235	"▲►" key (-127 +128 for
			■ Rey (-127120 101 offset)
	Scaling Saturation	000 255	Set ScSat by pressing
		000200	"▲►" key (-127 +128 for
			■ RCy (-127120 101 Offset)
			onser

5 - Reset Shop submenu

Item	Sub-item	Value	Note
Reset		>	Press "OK ▶" key to
Shop			remove Factory presets
			(channel Maps, bargraph
			context,) and restore
			User OOB settings. All
			adjustments are not
			impacted!

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6 - Reset ALL submenu

Item	Sub-item	Value	Note
Reset ALL		>	Press " OK ▶" key to default NVM according to selected Project ID (all adjustments are defaulted, channel Maps are cleared, Hotkey is enabled, …)

7 - Power Mode submenu

Item	Sub-item	Value	Note
Power			Select starting sequence by
Mode		Boot	pressing "◀▶" key
		Standby	- Boot: Force TV to start
		Last Status	-Standby: Force TV to
			standby
			- Last Status: Force TV to
			standby or to start
			depending on latest
			operation

8 - USB Clone Mode submenu

ltem	Sub-item	Value	Note
USB Clone	USB Clone Mode	All ChannelList EEPROM User Setting	Select by pressing "◀▶" key
	TV TO USB	DO	Press " OK ▶" to copy TV template context to USB depending on Cloning mode
	USB TO TV	DO	Press " OK ▶" to copy USB template context to TV depending on Cloning mode

9 - PC Link Check submenu

Item	Sub-item	Value	Note
PC		DO	Press "OK ▶" to check IP
Link			address dectection and
Check			control MAC, DID, and
			UID integrity

10 - Other submenu

ltem	Sub-item	Value	Note
Project Info	Project ID	***	Select Project ID by pressing "◀▶" key
	Project Name	***	Info
	Panel ID	***	Info
	Panel Name	***	Info
	Version	***	Info (ex:V8-MT25F0x-LF1Vxxx)
	Date	***	Info
	Time	***	Info

MCU Version *** Info (n/a) Product SN (NULL) Info Update CI+ Press 'OK ▶" key to active Credential Press 'OK ▶" key to active CI+ Update from USB Press 'OK ▶" key to copy CI+ Erase CI+ Press 'OK ▶" key to create Credential Valid *** Show the CI+ status (NO by default) Cus Code *** Show the CI+ status (NO by default) Cus Code *** Show the CI+ status (NO by default) Cus Code *** Show the CI+ status (NO by default) Cus Code *** Show the CI+ status (NO by default) MAC Serial Num *** Show the CI+ serial number Update from USB Press 'OK ▶" key to copy MAC address Written status Written status *** NAC address (NULL by default) MAC address *** Yo check IP address detection and control MAC, DID, and UID integ- rity Tuner AGC 1127+127 Set AGC level by pressing * (▶' key MT31BOP On/Off Enable/Disable by pressing * (▶	Item	Sub-item	Value	Note
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Update CI+ Credential Update CI+ Credential > Press "OK ▶" key to active CI+ key Update from USB > Press "OK ▶" key to copy CI+ key from USB Erase CI+ Credential > Press "OK ▶" key to copy CI+ key from USB Valid *** Press "OK ▶" key to remove CI+ key Valid *** Show the CI+ status (NO by default) Cus Code *** Show the CI+ custom code Serial Num Update from USB > Press "OK ▶" key to copy MAC address Written status *** Show the CI+ status (NO by default) MAC address *** Show the CI+ custom code Serial Num Written status *** Show the CI+ custom code by default) MAC address *** Show the MAC address (NULL by default) MAC address *** Show the MAC address (NULL by default) PC Link Check DO Press "OK ▶" key address detection and control MAC, DID, and UID integ- rity Tuner AGC -127+127 Set AGC level by pressing " ♦ " key MT31BOP On/Off Enable/Disable by pressing " ♦ " key MT31BFS On/Off Enable/Disable by pressing " ♦ " key Event On/Off Ena		Product S/N	(NULL)	Info
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MT31BFS On/Off Enable/Disable by pressing Event By On/Off Image: Content of the second				"▲►" key
Event By Event Children Children By Event By	MT31BES		On/Off	Enable/Disable by pressing
Event By Event On/Off			01/01/	"▲►" kev
Event	Event By		On/Off	
	Event			
OAD > Press "OK ▶" to start OAD	OAD		>	Press " OK ▶" to start OAD
Update Updrade process	Update			Upgrade process

5.2. How to upgrade Flash SW using USB

5.2.1. Upgrade with Loader

- 1. Power-off or switch TV to standby (LED should light on).
- 2. Copy the corresponding SW PKG image (ex: "V8-0MT310x-LF1Vxxx.pkg") into USB stick (pen drive) root path and rename it to "upgrade.pkg".
- 3. Plug USB stick to the TV.
- 4. While power-on TV if previously off (LED status off), press "**Power**" button from localkeyboard during few seconds to start upgrading process.
- 5. Release "Power" button once LED is blinking or USB stick starts blinking, TV is uploading SW BIN image.
- 6. When reflashing is successful, TV should restart automatically after ~2min.

Info:

If TV doesn't restart and LED is lightening on, an error may occurred during flashing, check the set, PKG file integrity and try again from 1st step.

- 7. Remove USB stick.
- 8. Remember to perform "Factory menu → Reset ALL" or "Factory menu → Reset Shop" and then press RCU "OK / ▶" key if there's not any subsequent cloning operation.
- 9. Switch off TV by removing AC cord.
- 10. Reconnect AC cord to restart TV and wait few seconds for Eeprom update.

Note:

If "Reset Shop" was performed, a "Welcome Setup" menu should be displayed, otherwise new SW version should be displayed into relevant Factory mode caption info or on bottom of "**Factory menu**".

5.2.2. Upgrade without Loader

- 1. Copy the corresponding SW PKG image (ex: "V8-0MT310x-LF1Vxxx.pkg") into USB stick (pen drive) root path and rename it to "upgrade.pkg".
- 2. Plug USB stick to the TV.
- 3. TV will automatically detect new SW to upgrade and displays below pop-up message:

opuaning wizard		-	
1 : "V1.09" update 7 : "" update to ""	to "V1.09"		
Are you sure to upda	te the firmware ?		
Yes	-		
Yes No	•		

- 4. Press RCU "OK/." key to start upgrading process and follow instructions till reflashing is successful.
- 5. Remove USB stick
- 6. Remember to perform "Factory menu → Reset ALL" or "Factory menu → Reset Shop" and then press RCU "OK / ▶" key if there's not any subsequent cloning operation.
- 7. Switch off TV by removing AC cord.
- 8. Reconnect AC cord to restart TV and wait few seconds for Eeprom update.

Note:

If "Reset Shop" was performed, a "Welcome Setup" menu should be displayed, otherwise new SW version should be displayed into relevant Factory mode caption info or on bottom of "**Factory menu**".

5.3. How to change ProjectID with RCU

- 1. Process following subsequence IR codes to change projectID: 062598+MENU+xxx (xxx:ProjectID, ex:003).
- 2. Restart TV.

6 Troubleshooting Guide

TheTV is not work Check 3.3VSTB and 12V/24V Both Both have no **Check Power Unit** Check each DC-DC unit's Only has outputs, and the power supply 3.3VSTB of Main IC and DDR. OK Check P_ON, DIM, BL_ON. Abnormal Check each DC-DC and there terminal voltage regulator unit. DDR. NO Normal Check Reset signal of Main IC Check the Main IC' periphery circuits and the hole between Main IC Normal Check IIC bus signal. Try to cut off Turner and peripheral and AMP bus .Then start up. signals. Change Main IC. Normal **Check Crystal** Check print information if necessary.

6.1. Green Power LED does not turned on.

Many problems may cause the TV can't start up. Firstly, it's need to foreclose the possible bad board (such as main board, key board, panel etc). We can do the right thing only if we find the bad board. The main reasons such as: power supply abnormal, core voltage, DDR's reference voltage, main program abnormal, MBOOT program abnormal, wrong panel parameter, EEPROM data abnormal, bad Main IC and DDR etc. The print information will be useful to analyzing the problems quickly recur to the serial interface tools.

6.2. Abnormal display



The method of maintain single source (such as TV, AV etc) abnormal display: Firstly, check the relative channel circuit's component whether have obviously short and virtual jointing. It is need to use forehead method to deal with the covert reason. It is need to check Tuner's outputs for TV source abnormal display. Because of Main IC's high degree of integration, all of the video signals are transmitted to the back end after processed by main IC. All of the sources' abnormal display may caused by the main IC's abnormal run. So it is need to judge the problem is caused by the main IC or fore-end circuits. You can do like this: Put the good machine's TV/AV signal into the bad machine's Main IC , and put the bad machine's TV/AV signal into the good machine's Main IC. If the problem follows the action, the problem is caused by fore-end circuits. If the problem not follows the action, the problem is caused by the problem is caused by the main IC or the periphery circuits.

6.3. Abnormal sound



• It is need to check Tuner's outputs when in TV source and check the IIS signals from main IC. Check the Mute circuits and AMP reset's function.

7 Disassembly and Assembly Instructions

1. Disassembly the screws on the back cover.



2. Be careful of the board lines.





3. Remove the back cover.



8 Measurements and Adjustments

8.1. Voltage chart of A-board

Set A-Board to a dummy set and check the satisfaction with the specified voltage as following table.

Power Supply Name	Measurement Point	Specification (V)	Remark
SUB1.2V	L102	1.14 - 1.26	-
SUB3.3V	U101	3.19 - 3.46	-
SUB5V	L116	4.92 - 5.25	-
STV3.3V	P102(pin7)	3.19 - 3.46	-
PNL12V	L101	11.5 - 12.5	-

8.2. Voltage chart of P-board

Set P-Board to a dummy load and check the satisfaction with the specified voltage as following table.

Output	Test Point	Specification			
Odiput		Step 1	Step 2		
24V	CN1 (pin 1, 2, 4)	<1V	24 ± 1.6V		
3.3V	CN1 (pin7)	3.3 ± 0.2V	3.3 ± 0.2V		
PFC	R13	<340V	390V ± 15V		

Step 1 Supply AC 100V/230 to JK7101 connector in the P-Board. Main power button is OFF.

Step 2 Supply DC 2.5V to TV_SUB_ON P2 connector, displayed as SWITCH.

9 Block Diagram



10 Wiring Connection Diagram

• Stick pet tape for wire dressing.



11 Schematic Diagram











POWER INTERFACE















PCMCIA





USB&Ethernet



GPIO&LVDS









Audio&Video









TH-65C300K/TH-65C300M/TH-65C300T





RX_0_2B_4

P800



HDMI_ARC 2U2 R846 RB47 GND

() HPD HDMI-2-HPD



29









VGA-TXD O VGA_TXD	F1001
	F1002
VGA-SDA 💬 VGA_SDA	
VGA-SCL	
R 🖯 VGA_RED	
G 💬 VGA_GRN	F1006
B 🕞 VGA_BLU	
VSYNC O VGA_VS	
HSYNC OVGA_HS	
VGA5V OVGA_5V	
	GND













				1100 000			
1		T2_MD07	<u> </u>		8	D_TSDATA7	
		T2_MD06	2		7	D_TSDATA6	
		T2_MD05	3		6	D_TSDATA5	
		T2_MDD4	4	<u> </u>	5	D_TSDATA4	
	ENO	T2_MD03	R 1	1124 22R	8	D_TSDATA3	2
	12 D	T2_MD02	2	<u> </u>	7	D_TSDATA2	123
	ROM		3		6	D_TSDATA1	MT5
	Œ	T2_MD00	4		5	D_TSDATA0	01
		T2_MOCLK T2_MOSVALA T2_MOSTART	R1 1 2 3 <u>4</u>		8 7 6 5	TSCLK TSVLD TSSYNC	

TSSYNC	TISVLD	TSCLK	D_TSDATA7	D_TSDATA6	D_TSDATAS	D_TSDATA4	D_TSDATA3	D_TSDATA2	D_TSDATA1	D_TSDATAO	•
NC/10P	NC/10P	NC/10P	NC/10P	NC/10P	NC/10P	NC/10P	NC/10P	NC/10P	NC/10P	NC/10P	
C1118	C1119	C1120	C1121	C1122	C1123	C1124	C1125	C1126	C1127	C1128	
G	ND GI	ID GN	D GN	D GN	ID GN	D GN	DGN	DGN	DGN	ID GI	٩D

TH-65C300K/TH-65C300M/TH-65C300T



12 Exploded View and Replacement Parts List

12.1. Exploded View and Mechanical Replacement Parts List







12.2. Packing procedure

1. Put in the paper tray carefully. Don't damage the bottom polyfoams of the paper tray.



2. Put the Paper Angle in place.



3. Assemble the middle polyfoams.

Back Assembly (Backcover Side)





4. Assemble the top polyfoams.





Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	2	N2QAYB000976	REMOTE TRANSMITTER		
	4	TPE4TH025-1	SET BAG		
A	7	TZZ00001827A	KEY BOARD (T8-50D14KI-KE1)		
≜	9	TZZ00001862A	DRIVE BOARD		
A	10	TZZ00001830A	IR BOARD		
≜	11	TZZ00001865A	POWER BOARD		
	13	TZZ00001836A	SPEAKER (L+R)		
	14	TZZ00001892A	STAND NECK		
	15	TZZ00001893A	STAND		
	16	TZZ00001894A	BACK COVER		
	17	TZZ00001845A	SUPPORT OF KEY		
	18	TZZ00001846A	BOTTOM OF KEY		
	19	TZZ00001847A	AV SUPPORT		
	20	TZZ00001900A	DOWN LABEL OF AV		
	21	TZZ00001901A	RIGHT SIDE LABEL OF AV		
	22	TZZ00001895A	CUSHION RIGHT BOTTOM		
	23	TZZ00001896A	CUSHION LEFT BOTTOM		
	24	TZZ00001897A	CUSHION TOP RIGHT CORNER		
	25	TZZ00001898A	CUSHION TOP LEFT CORNER		
	26	TZZ00001899A	CUSHION MIDDLE		
		TZZ00001834A	CABLE MAIN BOARD TO DRIVE BOARD		
		TZZ00001835A	CABLE MAIN BOARD TO KEY BOARD		
		TZZ00001871A	CABLE MAIN BOARD TO IR		
		TZZ00001872A	CABLE FOR RIGHT SPEAKER		
		TZZ00001873A	CABLE FOR LEFT SPEAKER		
		TZZ00001874A	POWER SUPPLY WIRE		
		TZZ00001891A	LVDS WIRE		

12.2.1. Common Part List for all TH-65C300 Series

12.2.2. For TH-65C300K Only (Malaysia)

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A	1	K2CQ2YY00122	AC CORD		
⚠	3	TBM4GD6891	MODEL NAME PLATE		
	5	TQZ4GB975	FAN BAG ASSEMBLY		
	6	TXFPC01WJUK	CARTON ASSEMBLY		
A	8	TZZ00001860A	MAIN BOARD		
⚠	12	TZZ00001867A	LCD PANEL		

12.2.3. For TH-65C300M Only (Middle East)

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
≜	1	K2CT2YY00091	AC CORD		
≜	3	TBM4GD6892	MODEL NAME PLATE		
	5	TQZ4GB978	FAN BAG ASSEMBLY		
	6	TXFPC01UPUM	CARTON ASSEMBLY		
⚠	8	TZZ00001861A	MAIN BOARD		
⚠	12	TZZ00001870A	LCD PANEL		

12.2.4. For TH-65C300T Only (Thailand)

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
⚠	1	K2CP2YY00060	AC CORD		
≜	3	TBM4GD6893	MODEL NAME PLATE		
	5	TQZ4GB982	FAN BAG ASSEMBLY		
	6	TXFPC01UWUT	CARTON ASSEMBLY		
≜	8	TZZ00001875A	MAIN BOARD		
A	12	TZZ00001876A	LCD PANEL		