Additional Service Manual

SERVICE INFORMATION (PARTS)

AlphaTheta

Date: Feb. 28, 2023   **No.:** SPH21004-A

The explanation for Note: *1 -*3 is described on the last page of this SI.

Model No.	Group*1	Applied counter-measure to MP*2	Serial number applied countermeasure *3
		Refer to following pages.	

DETAIL	
DETAIL	-Interchangeability for design change of each assy with usage of alternative parts
REASON	-Due to procurement convenience

Please discard the previous SI (SPH21004, Date: Sept. 29, 2021)

[Change] Design change due to further usage of alternative parts

Due to fire incident at AKM factory, design change of related assy was performed. But additional design change has been applied due to delivery issue of alternative parts. ASSY before and after design change are not interchangeable. If combination is not correct, unit does not work properly.

The change history of related ASSY is as in below table. Unit does not work properly if the combination of each assy is not correct. Please check the serial No, whether below modification is applied when replacing subjected assy. Also, please check the part No printed on the board.

Combination					Description
Main ASSY	LCDB ASSY	LCD Module	JLCD1/2 ASSY	AUDIO ASSY	
DWX4287	DWX4291	DWX4375	DWX4288, 4289	DWX4298、 DWX4621、 DWX4671 (*2)	Original
DWX4669(*1)	DWX4622(*1)	↑	↑		Group A (*3)
DWX4857,4865	↑	↑	DWX4805、4806		Group B
DWX4857,4865	DWX4897	DWX4870	↑		Group C

*1 DWX4669 + DWX4622 are supplied as service kit (GXX1600)

*2 Each AUDIO ASSY is interchangeable by updating the firmware to the latest version.

*3 The following parts are also changed with design change of Group A. But the circuit is not changed, so old and new assy are interchangeable.

PAD1 ASSY (DWX4292->DWX4623), PAD2 ASSY (DWX4293->DWX4624),

USBA ASSY (DWX4294->DWX4625) and CRFD ASSY (DWX4295->DWX4626)

After remedy, please mark according to P.3 for distinction of the group for future repairs.

Group	Current Part			New Part	
	Part Name(Symbol)	Part Number	↓	Part Number	Part Name(Symbol)
A	MAIN ASSY	DWX4287	4	DWX4669	MAIN ASSY
A	LCDB ASSY	DWX4291	4	DWX4622	LCDB ASSY
A	PAD1 ASSY	DWX4292	3	DWX4623	PAD1 ASSY
A	PAD2 ASSY	DWX4293	3	DWX4624	PAD2 ASSY
A	USBA ASSY	DWX4294	3	DWX4625	USBA ASSY
A	CRFD ASSY	DWX4295	3	DWX4626	CRFD ASSY
A	AUDIO ASSY	DWX4298	4	DWX4621	AUDIO ASSY
A	AUDIO ASSY	DWX4621	3	DWX4671	AUDIO ASSY
B	MAIN ASSY	DWX4669	2	DWX4857	MAIN ASSY
B	JLCD1 ASSY	DWX4288	2	DWX4805	JLCD1 ASSY
B	JLCD2 ASSY	DWX4289	2	DWX4806	JLCD2 ASSY
B	XPAD ASSY	DWX4290	3	DWX4845	XPAD ASSY
C	MAIN ASSY	DWX4857	3	DWX4865	MAIN ASSY
C	LCDB ASSY	DWX4622	2	DWX4897	LCDB ASSY
C	TFT LCD	DWX4375	2	DWX4870	LCD MODULE

[Part compatibility]   1:Changeable from old to new.   2:Not Interchangeable at all.   3:Interchangeable in both ways.

4:only in special case   5:Do not use old parts.   Memo: TI-35361   TI-35362

'TI-35717   'TI-35792

Services examination(E):   E1   Web release(W): W1   YS

AlphaTheta CORPORATION

Model No.	Group*1	Applied counter-measure to MP*2	Countermeasure applied serial number *3
XDJ-XZ/AXJ	A	Yes	1251~
XDJ-XZ/AXJ	B	Yes	1801~
XDJ-XZ/AXJ	C	Yes	2331~
XDJ-XZ/LWSYXJ	A	Yes	17818~
XDJ-XZ/LWSYXJ	B	Yes	26057~
XDJ-XZ/LWSYXJ	C	Yes	31489~
XDJ-XZ/UXJCB	A	Yes	6561~
XDJ-XZ/UXJCB	B	Yes	11911~
XDJ-XZ/UXJCB	C	Yes	12401~
XDJ-XZ-N/AXJ	A	Yes	101~
XDJ-XZ-N/AXJ	B	Yes	101~
XDJ-XZ-N/AXJ	C	No	-----
XDJ-XZ-N/LWYXJ	A	Yes	431~
XDJ-XZ-N/LWYXJ	B	Yes	431~
XDJ-XZ-N/LWYXJ	C	No	-----
XDJ-XZ-N/UXJCB	A	Yes	1181~
XDJ-XZ-N/UXJCB	B	Yes	1181~
XDJ-XZ-N/UXJCB	C	No	-----
XDJ-XZ-W/AXJ	A	Yes	1~
XDJ-XZ-W/AXJ	B	Yes	1~
XDJ-XZ-W/AXJ	C	Yes	181~
XDJ-XZ-W/LWYXJ	A	Yes	1~
XDJ-XZ-W/LWYXJ	B	Yes	1~
XDJ-XZ-W/LWYXJ	C	No	301~
XDJ-XZ-W/UXJCB	A	Yes	1~
XDJ-XZ-W/UXJCB	B	Yes	601~
XDJ-XZ-W/UXJCB	C	Yes	2201~

[Description]   * This is the content of original SI (SPH21004)
Group A : AKM IC
- Change of touch panel IC
   IC3606 on LCDB ASSY   AK4187VN ->   TSC2007IPWR@V LCDB ASSY   DWX4291 -> DWX4622
   Firmware change on Main ASSY (It is not rewritable)   Main ASSY   DWX4287 -> DWX4669

* Old LCDB ASSY (DWX4291) becomes unavailable, so if it is defective, Main ASSY also need to changed
  to new ones. We supply DWX4622 and DWX4669 as service kit (**GXX1600**)

- Change of DAC IC
  IC5802 on AUDIO ASSY : AK4458VN -> PCM1690   IC5603,5604 : AK5358AET -> PCM1803ADB
  Circuit around the above IC is also changed with these IC change.
  Part No of AUDIO ASSY   DWX4298 ->   DWX4621
  Notice   :   Please update the firmware (Ver.1.22) when changing AUDIO ASSY from old to new.

    ********************* <Below is the additional info> *********************
    AUDIO ASSY has further changed from DWX4621 to DWX4671, but DWX4298, DWX4621 and DWX4671
are interchangeable if the firmware is updated to the latest version.

Group B : JOG UCOM
   JOG UCOM that is installed on JLCD 1/2 ASSY and its peripheral circuit were changed due to procurement
  convenience.
   Also, firmware for new JOG UCOM is stored on Main ASSY in line with this design change. This firmware
  is not rewritable, so change of Main ASSY is also required when changing JOG UCOM from old to new.
  Old/new firmware can recognize only old or new JOG UCOM each other. So, either of old or new should
  match between JOG UCOM and Main ASSY.

	Old	New	
JLCD1/JLCD2 ASSY:	DWX4288/DWX4289	DWX4805/DWX4806	Not interchangeable
MAIN ASSY:	DWX4669	DWX4857、DWX4865(*)	Not interchangeable

 If old/new of JLCD ASSY does not correspond with Main ASSY, below symptoms occur.
- Backlight of JOG LCD turns off.
- [REV] button blinks rapidly.

* The latest Main ASSY has been changed from DWX4857 to DWX4865, but they are interchangeable.
   XPAD ASSY is also changed from DWX4290 to DWX4845, but they are also interchangeable.

Group C : LCD Module
  Furthermore, LCD module on display part and its circuit on LCDB ASSY were changed due to procurement
 convenience of driver IC.
  Old and new LCD module are not interchangeable, so changing LCDB ASSY is also required when replacing
 LCD Module from old to new. If the combination is incorrect, the display will not be shown properly
 (The display may be partially misaligned).

	Old	New	
LCD MODULE:	DWX4375	DWX4870	Not interchangeable
LCDB ASSY:	DWX4622	DWX4897	Not interchangeable

 All parts except for the original parts are available.   Please confirm the parts that are installed
in the unit and order the correct parts.

  FYI, below combination is also confirmed to work properly.
Change LCD & LCDB ASSY (DWX4375 & DWX4622) of the unit with group A to the one of group C
(DWX4870 & DWX4897)

[Modification mark after repair]
  Please put below mark when changing parts from old to new, so the group can be identified correctly
in future repairs.

Change to Group A	Put a black dot on serial No label
Change to Group B	Put a blue dot on serial No label
Change to Group C	Put a red dot on serial No label

Supplementary Explanation   (This contents are not related to the service remedy of this SI.)

*1 **Group**

Even if the countermeasure method is the same, replacement part or firmware, for instance, may differ depending on models.
This symbol (alphabet) is used for classifying models in such case.
If the group is same, exactly the same remedy can be applied.

*2 **Applied countermeasure to Mass Production (MP)**

Indicate whether the countermeasure has been/will be taken during production or not
(1) Yes   The countermeasure has been/will be taken during production.
(2) No   The countermeasure has NOT been/will NOT be taken during production.

*3 **Serial number applied countermeasure**

Indicate the serial number, in case the countermeasure has already been/will be applied in the production at factory.

(1) "Serial Number"   This is the serial number to which the countermeasure has already been/will be applied.

                            Sample 1: "ABCD001000UC-"
                                The countermeasure has started/will start from ABCD001000UC at factory.

                            Sample 2: "RD**-"
                                In case of unknown the actual number, only production year/month is shown here.
                                (RD : April, 2018)

(2) "------"   Not applied the countermeasure in the production.
                            Or, unknown the applied serial number.