

# DISASSEMBLY PROCEDURE (Tyros3)

## Precautions

- If you want to turn the instrument or upper case unit upside down, prepare supporting materials and put the both end portions of the instrument or upper case unit on the supporting materials. (Fig. A)
- During reassembly, reinstall the adhesive tape, cord holder, GND wire and ferrite core that were removed during disassembly as they were before removal.

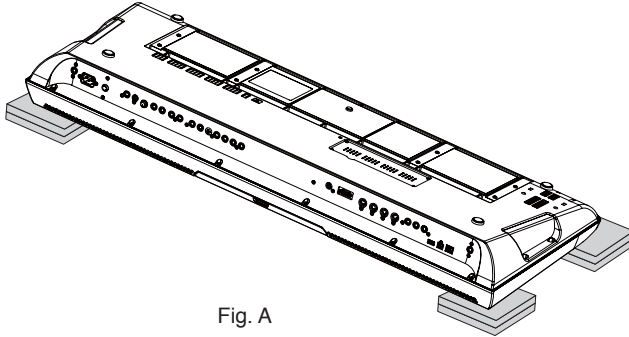


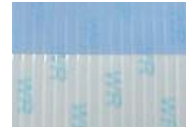
Fig. A

### Notes on Flat Cable

When connecting to the connector, pay attention not to insert the cable inversely. (Photo A)



Front Side



Back Side

Photo A

1.	Separation of Upper Case Unit and Lower Case Unit.....	12
2.	DM Circuit Board.....	13
3.	DJK Circuit Board .....	14
4.	AC Upper Frame Assembly .....	14
5.	Power Supply Unit .....	14
6.	AC Lower Frame Assembly.....	14
7.	AJK Circuit Board .....	15
8.	ACIN Wiring Assembly.....	15
9.	SPOL Circuit Board, SPOR Circuit Board .....	15
10.	CK Circuit Board .....	15
11.	HP Circuit Board .....	15
12.	HDSB Circuit Board .....	15
13.	PNL Circuit Board .....	16
14.	EN Circuit Board .....	16
15.	PNC Circuit Board.....	16
16.	PNR Circuit Board.....	16
17.	PNLS Circuit Board.....	17
18.	MICVR Circuit Board.....	17
19.	USB Circuit Board.....	17
20.	Wheel Assembly (PITCH BEND, MODULATION) .....	17
21.	LCD Unit.....	17
22.	LCD Lower Assembly and Gear.....	18
23.	LCL Circuit Board .....	18
24.	LCR Circuit Board .....	18
25.	Crystal Display .....	19
26.	Keyboard Assembly.....	19
27.	Keys (White and Black Keys).....	20
28.	Installing Keys (Black and White Keys) .....	21
29.	Disassembling Keyboard Assembly .....	21
29-1	Rubber Contact.....	21
29-2	MK61L Circuit Board.....	22
29-3	MKH-D Circuit Board, EMKS-FD Circuit Board.....	22
30.	Hard Disk Drive Unit .....	23

## 1. Separation of Upper Case Unit and Lower Case Unit

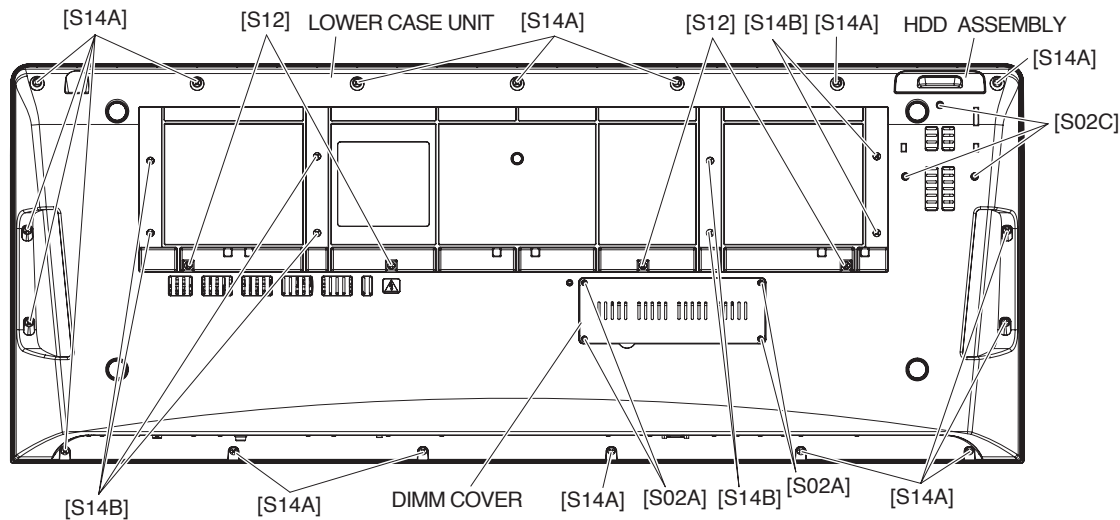
(The required: About 5 minutes).

- 1-1 Remove the four (4) screws marked [S12] and seventeen (17) screws marked [S14A], lift the rear side of the upper case unit a little, pull it toward you a little paying attention not to damage connector assemblies, and lift the upper case unit carefully. (Fig. 1, Photo 1)
- 1-2 Remove the six (6) screws marked [S03A]. The ACDM earth angle can then be removed. (Fig. 2)
- 1-3 Remove the screw marked [S09]. (Fig. 2)
- 1-4 Disconnect all the connector assemblies connecting the upper case unit and lower case unit. The upper case unit and lower case unit can then be separated.

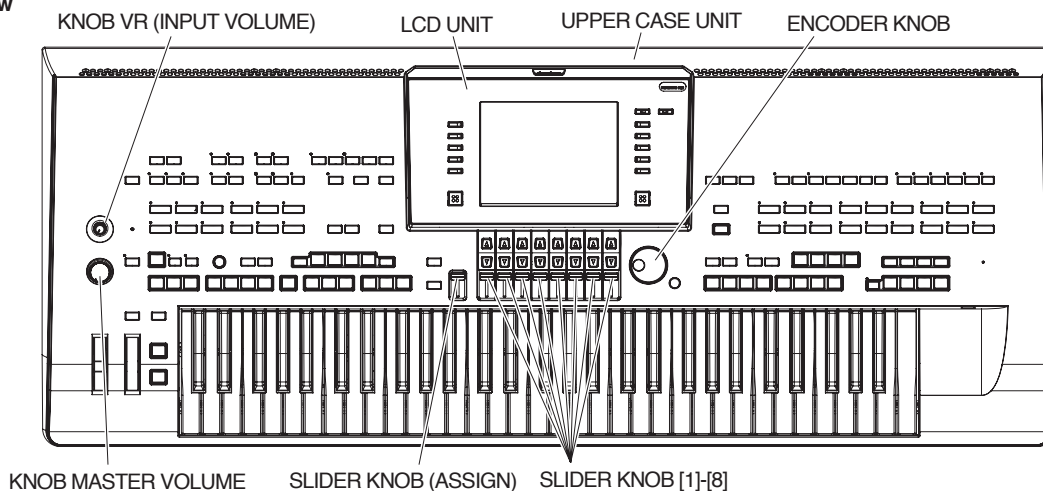


Photo 1

### • Bottom View



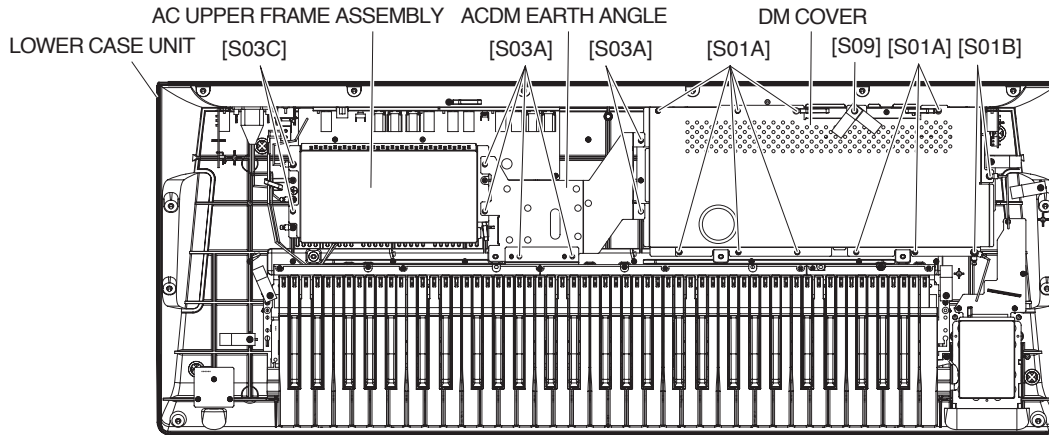
### • Top View



[S02]: BIND HEAD SCREW 3.0X8 MFZN2B3 (WE983600)  
 [S12]: BIND HEAD SCREW 4.0X10 MFZN2W3 (WE96650R)  
 [S14]: BIND HEAD TAPPING SCREW-B 4.0X16 MFZN2W3 (WF15410R)

Fig. 1

## • Top View



[S01]: BIND HEAD SCREW 3.0X6 MFZN2W3 (WE774000)  
 [S03]: BIND HEAD TAPPING SCREW-B 3.0X8 MFZN2W3 (WE774301)  
 [S09]: PW HEAD MACHINE SCREW 3.0 X 12 MFZN2W3 (WP817100)

Fig. 2

## 2. DM Circuit Board

(Time Required: About 8 minutes)

- \* If there is a DIMM inserted into the DIMM socket, remove the four (4) screws marked [S02A], DIMM cover and the DIMM before going to the procedures below. (Fig1, Fig. 3)

- 2-1 Separate the upper case unit and lower case unit.  
 (See procedure 1.)
- 2-2 Remove the nine (9) screws marked [S01A] and two (2) screws marked [S01B]. The DM cover can then be removed. (Fig. 2)
- 2-3 Remove the four (4) screws marked [S01C] and the screw marked [S02B]. The DM circuit board can then be removed. (Fig. 4)

\* **MAC (Media Access Control) address is stored in the DM circuit board. If the DM circuit board is replaced, MAC address will be changed.**

## • Removing DIMMs

Press the ejector levers until the DIMM unlocks.

Pull the DIMM vertically out of the socket.

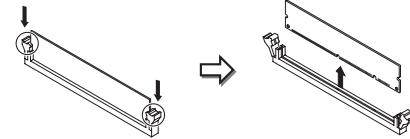
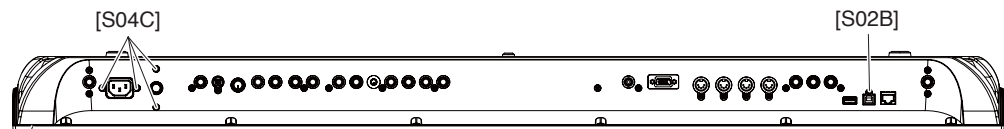
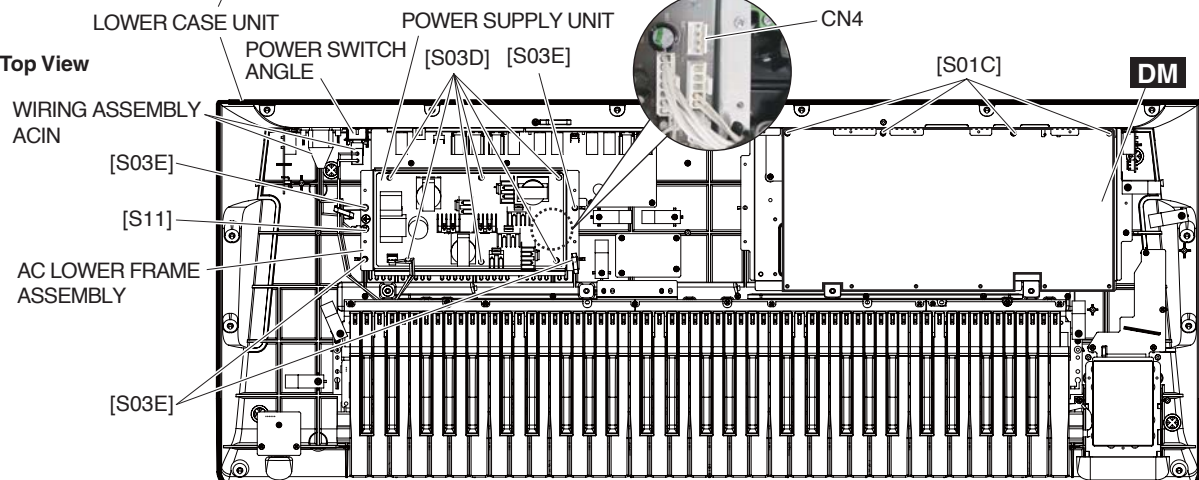


Fig. 3

## • Rear View



## • Top View



[S01B]: BIND HEAD SCREW 3.0X6 MFZN2W3 (WE774000)  
 [S02B]: BIND HEAD SCREW 3.0X8 MFZN2B3 (WE983600)  
 [S03]: BIND HEAD TAPPING SCREW-B 3.0X8 MFZN2W3 (WE774301)  
 [S04C]: BIND HEAD TAPPING SCREW-B 3.0X10 MFZN2B3 (WE972200)  
 [S11]: BIND HEAD SCREW 4.0X8 MFZN2W3 (WE968500)

Fig. 4

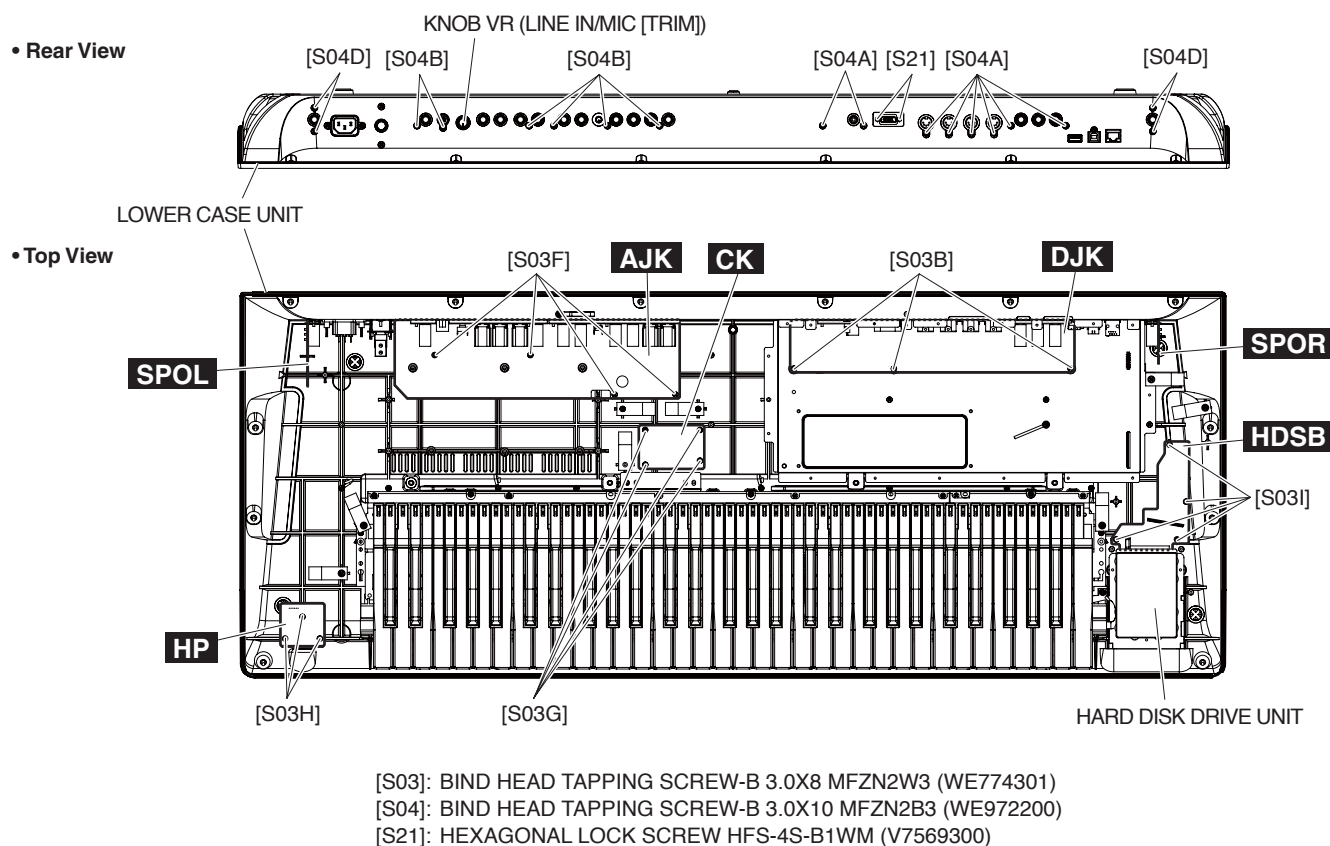


Fig. 5

### 3. DJK Circuit Board

(Time Required: About 10 minutes)

- 3-1 Separate the upper case unit and lower case unit. (See procedure 1.)
- 3-2 Remove the DM circuit board. (See procedure 2.)
- 3-3 Remove the three (3) screws marked [S03B], eight (8) screws marked [S04A] and two (2) hexagonal lock screws marked [S21]. The DJK circuit board can then be removed. (Fig. 5)

### 4. AC Upper Frame Assembly

(Time Required: about 6 minutes)

- 4-1 Separate the upper case unit and lower case unit. (See procedure 1.)
- 4-2 Remove the two (2) screws marked [S03C]. The AC upper frame assembly can then be removed. (Fig. 2)

### 5. Power Supply Unit

(Time Required: About 7 minutes)

- 5-1 Separate the upper case unit and lower case unit. (See procedure 1.)
- 5-2 Remove the AC upper frame assembly. (See procedure 4.)
- 5-3 Remove the six (6) screws marked [S03D]. The power supply unit can then be removed. (Fig. 4)
- \* **No cord should be connected to the CN4 of the power supply unit. Pay attention to connection during installment. (Fig. 4)**

### 6. AC Lower Frame Assembly

(Time Required: about 7 minutes)

- 6-1 Separate the upper case unit and lower case unit. (See procedure 1.)
- 6-2 Remove the AC upper frame assembly. (See procedure 4.)
- 6-3 Remove the two (4) screws marked [S03E] and the screw marked [S11]. The AC lower frame assembly can then be removed with the power supply unit on it. (Fig. 4)
- \* **No cord should be connected to the CN4 of the power supply unit. Pay attention to connection during installment. (Fig. 4)**

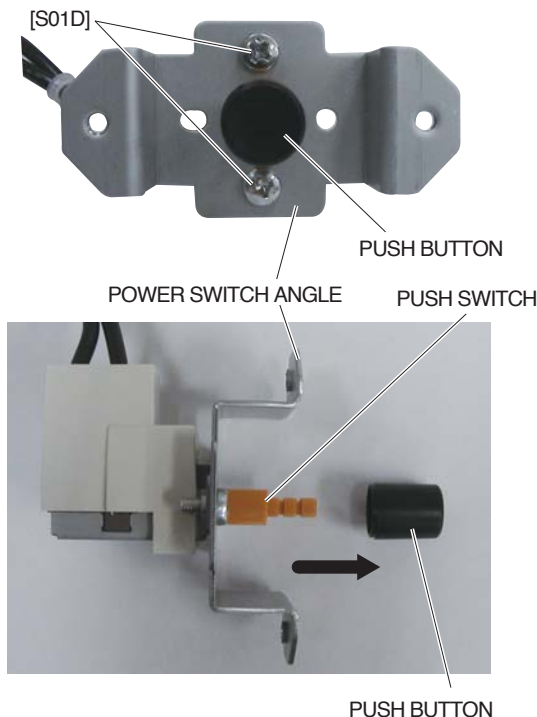
## 7. AJK Circuit Board (Time Required: About 8 minutes)

- 7-1 Separate the upper case unit and lower case unit. (See procedure 1.)
- 7-2 Remove the AC upper frame assembly. (See procedure 4.)
- 7-3 Remove the AC lower frame assembly with the power supply unit on it (See procedure 6.)
- 7-4 Remove the VR knob (LINE IN/MIC [TRIM]). (Fig. 5)
- 7-5 Remove the four (4) screws marked [S03F] and six (6) screws marked [S04B]. The AJK circuit board can then be removed. (Fig. 5)

## 8. ACIN Wiring Assembly (Time Required: About 7 minutes)

- 8-1 Separate the upper case unit and lower case unit. (See procedure 1.)
- 8-2 Remove the AC upper frame assembly. (See procedure 4.)
- 8-3 Remove the four (4) screws marked [S04C] and the screw marked [S11]. The ACIN wiring assembly can then be removed together with the power switch angle. (Fig. 4)
- 8-4 Remove the two (2) screws marked [S01D]. The power switch angle can then be removed. (Photo 2)

\* **The push button is not part of the ACIN wiring assembly. When replacing the ACIN wiring assembly (push switch), remove the push button from the push switch of the ACIN wiring assembly and install it on the new ACIN wiring assembly. (Photo 2)**



[S01]: BIND HEAD SCREW 3.0X6 MFXN2W3 (WE774000)

Photo 2

## 9. SPOL Circuit Board, SPOR Circuit Board (Time Required: About 6 minutes)

- 9-1 Separate the upper case unit and lower case unit. (See procedure 1.)
- 9-2 Remove the two (2) screws marked [S04D]. The SPOL circuit board can then be removed. (Fig. 5)
- \* **The SPOR circuit board can be removed in the same way.**

## 10. CK Circuit Board (Time Required: About 6 minutes)

- 10-1 Separate the upper case unit and lower case unit. (See procedure 1.)
- 10-2 Remove the four (4) screws marked [S03G]. The CK circuit board can then be removed. (Fig. 5)

## 11. HP Circuit Board (Time Required: About 6 minutes)

- 11-1 Separate the upper case unit and lower case unit. (See procedure 1.)
- 11-2 Remove the three (3) screws marked [S03H]. The HP circuit board can then be removed. (Fig. 5)

## 12. HDSB Circuit Board (Time Required: About 6 minutes)

- 12-1 Separate the upper case unit and lower case unit. (See procedure 1.)
- 12-2 Remove the two (2) screws marked [S01B] and four (4) screws marked [S03I]. (Fig. 2, Fig. 5)
- 12-3 Pull off the HDSB circuit board from the HDD terminal. (Photo 3)

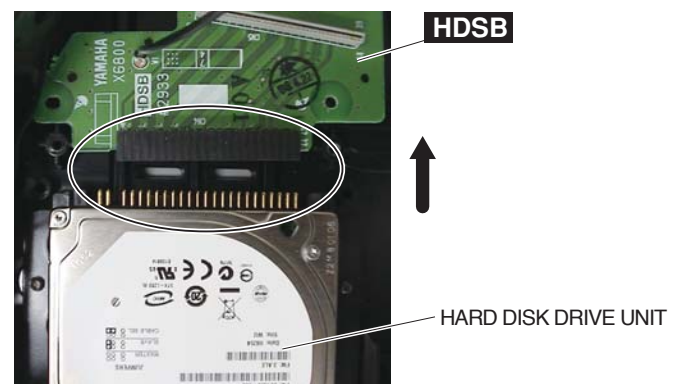


Photo 3