TEAC FD-235HG/HF-Cxxx

TECHNICAL DESCRIPTION OF DIFFERENCES

(Axxx series → Cxxx series for STD)

Rev. A

4651

9 sheets in Total

TABLE OF CONTENTS

1. OUTLINE

This document describes the details of changes for the TEAC FD-235HG/HF micro floppy disk drive (hereinafter referred to as FDD) from the -Axxx series to -Cxxx series.

In Cxxx series, a sheet metal frame has been adopted in place of the aluminum die-cast frame used up to the conventional Axxx series in order to meet with several needs currently demanded. However, the same PIN arrangement and front design as those of the conventional series have been adopted, whereby improving reliability and productivity.

This document describes typical models of the Axxx series and Cxxx series as examples. If you have any questions about the specifications of individual models, etc., kindly contact us through our sales department.

2. MODEL NAME AND PART NUMBER

The nameplate attached on the top cover of the FDD has the indication shown in Table 2-1, to distinguish between the Axxx series and Cxxx series.

(Table 2-1) Model name and part number

Indication	Axxx series	Cxxx series
Model name	FD-235HG/HF-Axxx	FD-235HG/HF-Cxxx
Part Number	193077Ax-xx	193077Cx-xx

For a model of Axxx series which can be replaced by the Cxxx series as it is, the top digit of the number is changed from "A" to "C" remaining the last three digits as they are.

e.g. FD-235HG-A304 → FD-235HG-C304
FD-235HF-A291 → FD-235HF-C291

3. DIFFERENCE IN EXTERNAL APPEARANCE

For details, refer to attached photos, each specification or actual models.
The following tables show lists of main differences in the external appearance.

3.1 Mechanical Parts

(Table 3.1-1) External appearance differences in mechanical parts

Different points	Details	Related drawings
Frame	The conventional aluminum die-cast will be changed to a sheet metal frame.	Fig. 2
Other parts	The whole shape will be changed in accordance with the above frame change. Holder, slider, latch lever, bezel shutter, SPG, shield cover, etc.	
Shutter	Will be removed from the front bezel to fix it to the frame directly.	
Damper	The mechanical damper will be eliminated.	
Top cover	Grain will be added on the top cover	
Lower cover	Will be adopted in all the models.	

3.2 Spindle Motor A'ssy

(Table 3.2-1) Spindle motor a'ssy appearance differences

Different points	Details	Related drawings
Spindle motor ass'y	It will be changed to a new type from the conventional M-type (Minebea) and G-type (Kumagaya Seimitsu) except S type (Sankyo Seiki Mfg Co., Ltd.).	Fig. 3

3.3 Stepping Motor

(Table 3.3-1) Stepping motor appearance differences

Different points	Details	Related drawings
Supplier	An A-type (Sanyo Seimitsu) will be added to the conventional M-type (Minebea) and S-type (Sankyo Seiki Mfg Co., Ltd.).	Fig. 4
Lead screw	The length of the lead screw will be changed in accordance with the change in the mounting position. 29.08mm → 32.58mm	
FPC	The FPC shape will be changed in accordance with the above positional change. A new FPC will be used for the A-type.	

3.4 PCBA MFD Control

(Table 3.4-1) PCBA appearance differences

Different points	Details
PCB	Two types of the PCB will be designed for the LSI manufactured by Toshiba/ Matsushita, and for the LSI manufactured by Rohm.
0Ω jumper	A wire jumper will be accepted to use in addition to the conventional chip jumper.

3.5 HCA

(Table 3.5-1) HCA appearance differences

Different points		Details	Related drawings
Manufactured by Sumitomo Special Metals Co., Ltd.	FPC	The part with a changed shape will be added.	Fig. 5

3.6 Packing Box

(Table 3.6-1) Packing box appearance differences

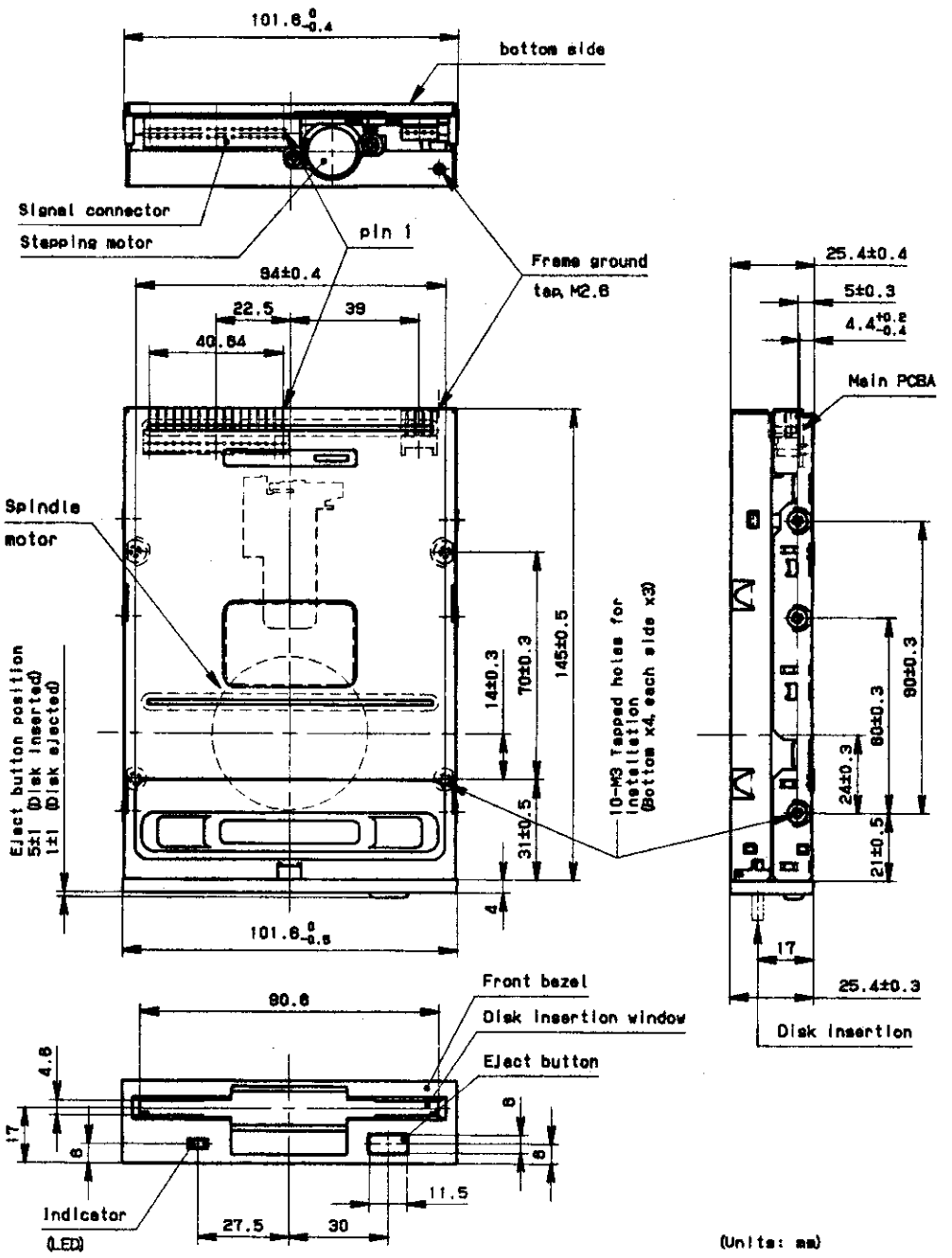
Different points	Details
Quantity	30-unit package → 20-unit package.
Cushion	Paper (recycled paper) → PS (polystyrene)
External dimensions	566×456×213 → 330×495×275
Total weight in package	12.55kg (typ.), 13.1kg (max.) → 9.38kg (typ.), 9.53kg (max.)
Printed letter	Dark blue → Black

4. DIFFERENCE IN SPECIFICATIONS

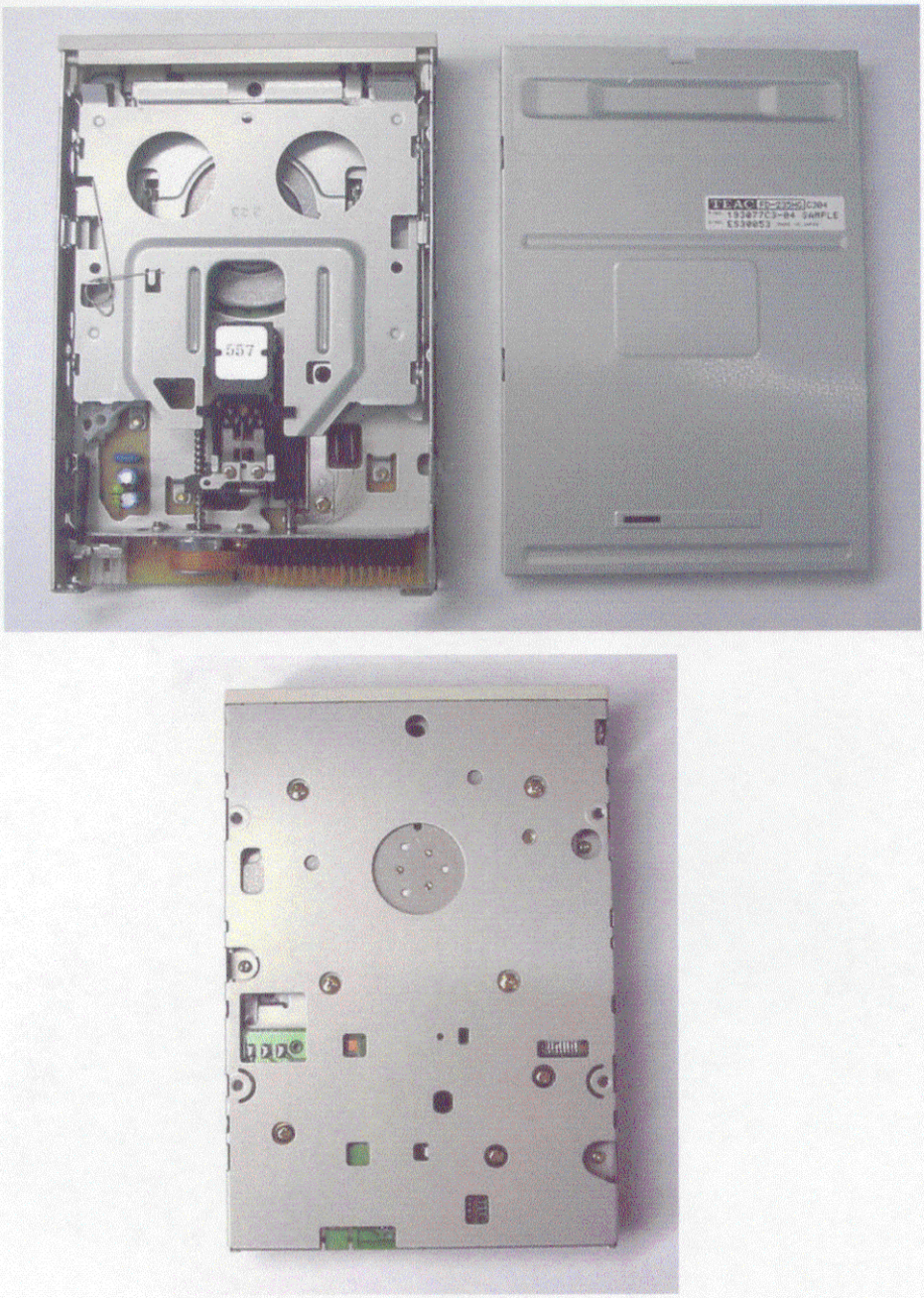
The weight will be changed as follows:

345g (typ.), 360g (max.) → 410g (typ.), 415g (max.)

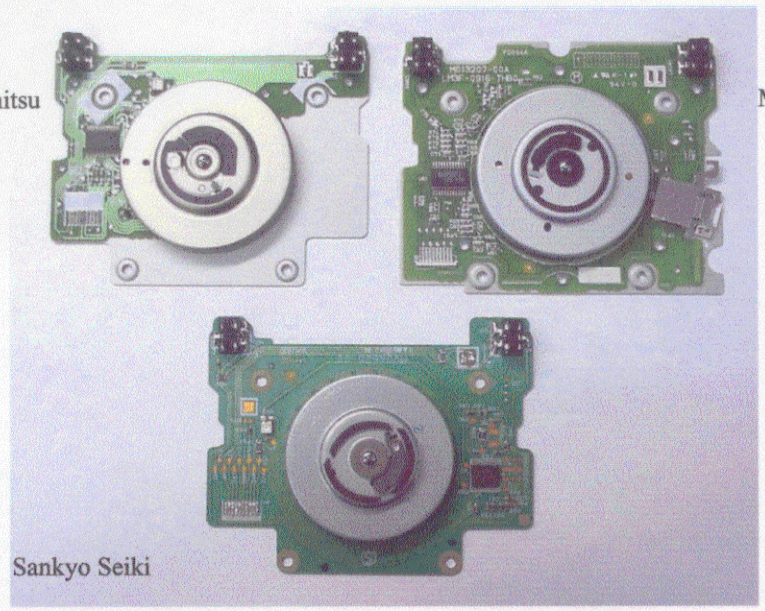
All the other specifications such as other characteristics (physical and operational characteristics), environmental conditions, reliability, etc. are the same as for the Axxx series.



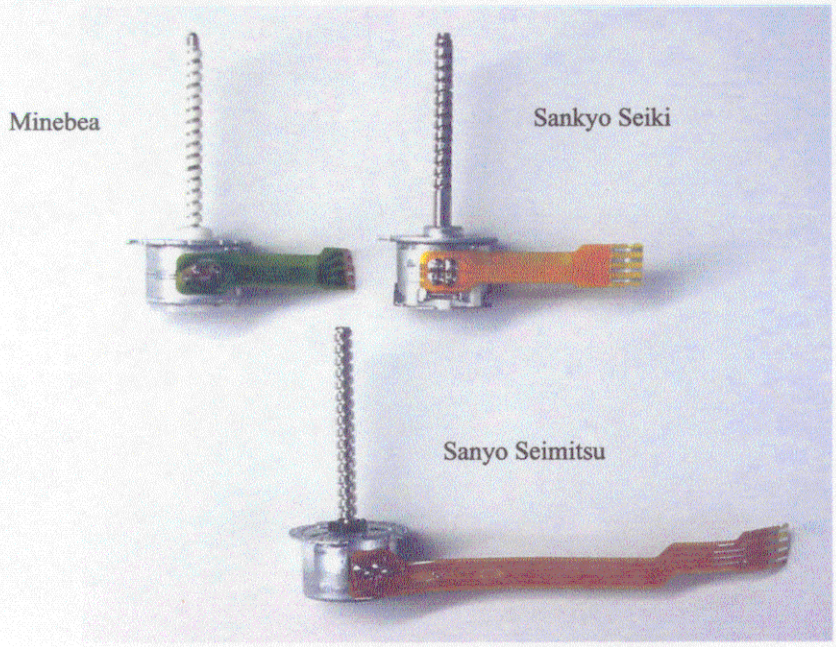
(Fig.1) External dimensions



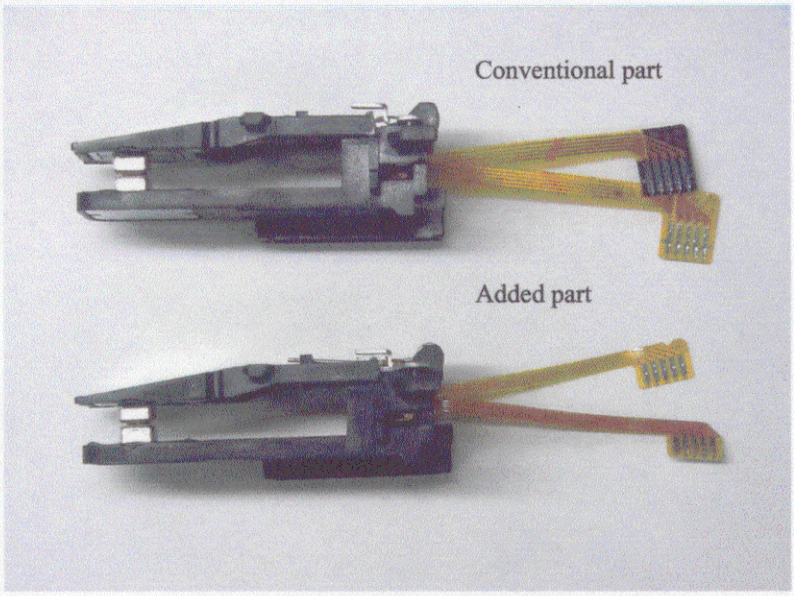
(Fig.2) Drive



(Fig.3) Spindle motor



(Fig.4) Stepping motor



(Fig.5) FPC of HCA

TEAC FD-235HG/HF-Cxxx

TECHNICAL DESCRIPTION OF DIFFERENCES

(Bxxx series → Cxxx series for STD)

Rev. A

4437

9 sheets in Total

TABLE OF CONTENTS

1. OUTLINE

This document describes the details of changes for the TEAC FD-235HG/HF micro floppy disk drive (hereinafter referred to as FDD) from the -Bxxx series to -Cxxx series.

In Cxxx series, a sheet metal frame has been adopted in place of the aluminum die-cast frame used up to the conventional Bxxx series in order to meet with several needs currently demanded. However, the same PIN arrangement and front design as those of the conventional series have been adopted, whereby improving reliability and productivity.

This document describes typical models of the Bxxx series and Cxxx series as examples. If you have any questions about the specifications of individual models, etc., kindly contact us through our sales department.

2. MODEL NAME AND PART NUMBER

The nameplate attached on the top cover of the FDD has the indication shown in Table 2-1, to distinguish between the Bxxx series and Cxxx series.

(Table 2-1) Model name and part number

Indication	Bxxx series	Cxxx series
Model name	FD-235HG/HF-Bxxx	FD-235HG/HF-Cxxx
Part Number	193077Bx-xx	193077Cx-xx

For a model of Bxxx series which can be replaced by the Cxxx series as it is, the top digit of the number is changed from "B" to "C" remaining the last three digits as they are.

e.g. FD-235HG-B304 → FD-235HG-C304
FD-235HF-B291 → FD-235HF-C291

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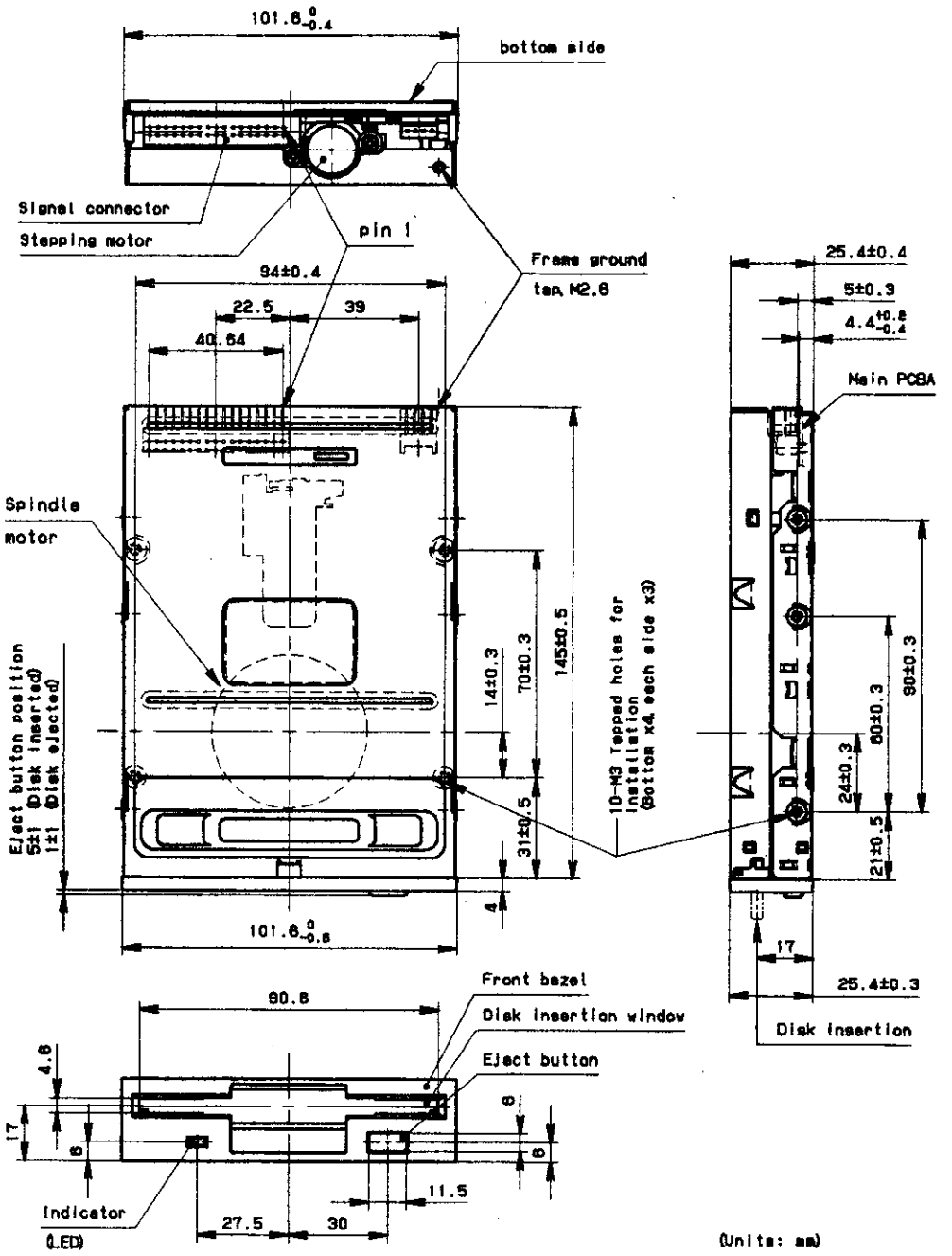
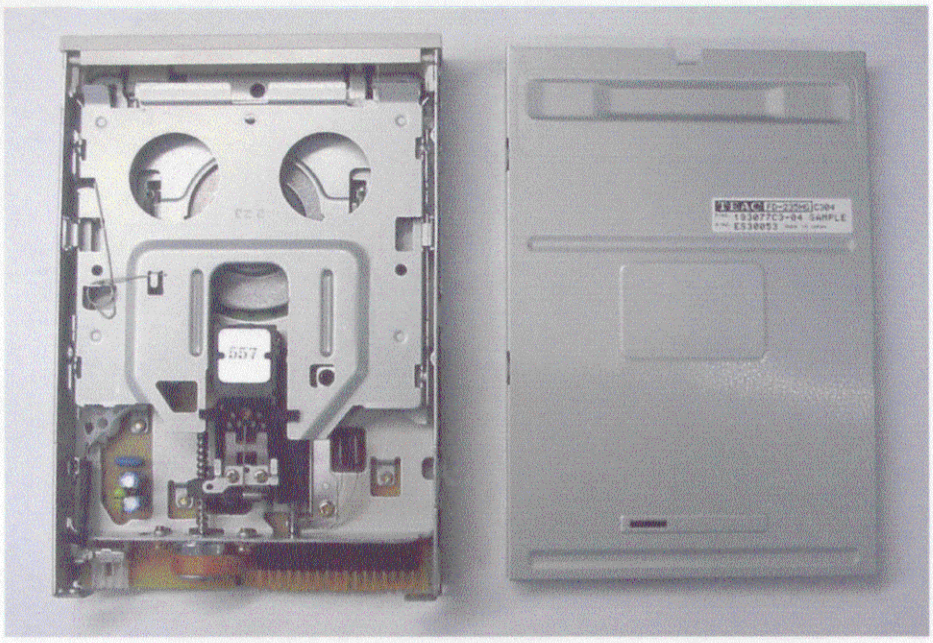
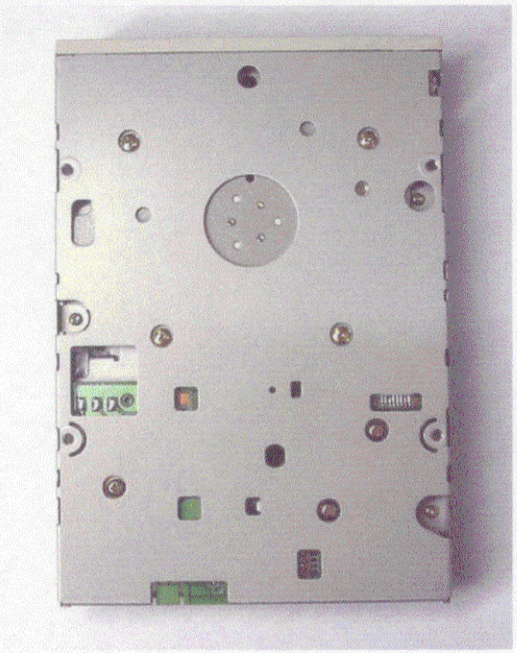
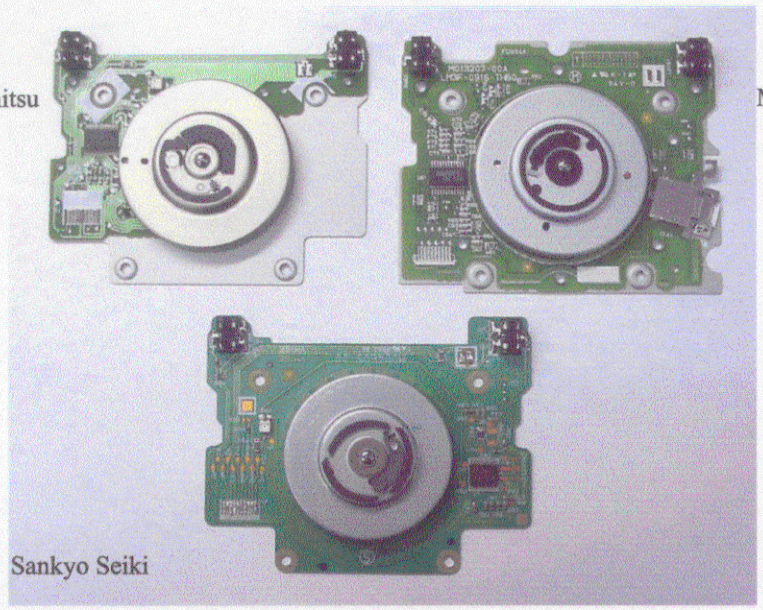


(Fig.1) External dimensions

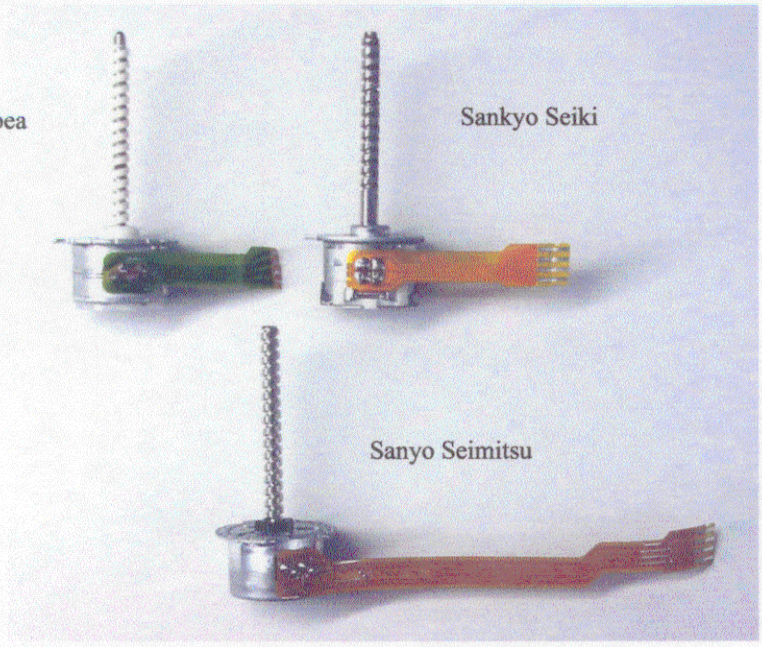




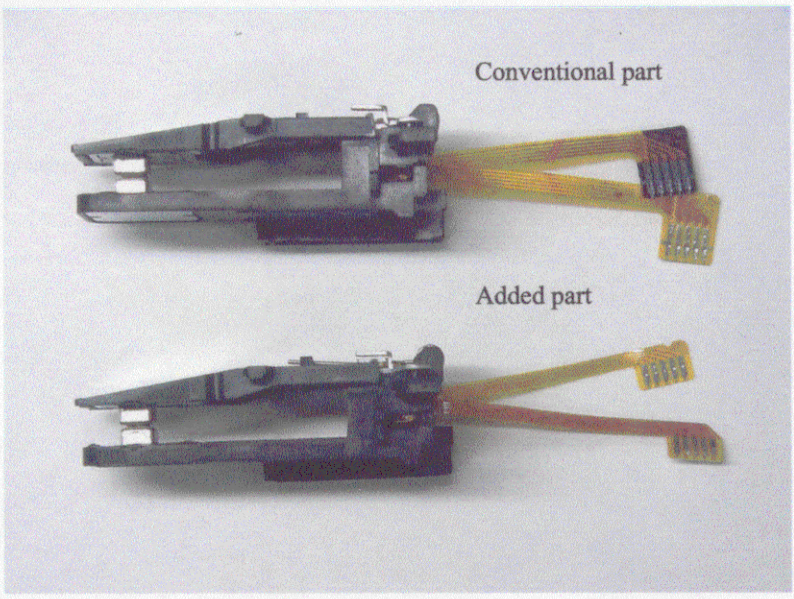
(Fig.2) Drive



(Fig.3) Spindle motor



(Fig.4) Stepping motor



(Fig.5) FPC of HCA