



***GE Vingmed Ultrasound***

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# **Technical Publication**

**Direction: FC209267**

**Revision: 02**

**GE Vingmed Ultrasound  
Monitor Replacement Complete,  
System FiVe / Vivid FiVe**





**CAUTION LANGUAGE**

**WARNING**

- THIS SERVICE MANUAL IS AVAILABLE IN ENGLISH ONLY.
- IF A CUSTOMER'S SERVICE PROVIDER REQUIRES A LANGUAGE OTHER THAN ENGLISH, IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE TRANSLATION SERVICES.
- DO NOT ATTEMPT TO SERVICE THE EQUIPMENT UNLESS THIS SERVICE MANUAL HAS BEEN CONSULTED AND IS UNDERSTOOD.
- FAILURE TO HEED THIS WARNING MAY RESULT IN INJURY TO THE SERVICE PROVIDER, OPERATOR OR PATIENT FROM ELECTRIC SHOCK, MECHANICAL OR OTHER HAZARDS.

**AVERTISSEMENT**

- CE MANUEL DE MAINTENANCE N'EST DISPONIBLE QU'EN ANGLAIS.
- SI LE TECHNICIEN DU CLIENT A BESOIN DE CE MANUEL DANS UNE AUTRE LANGUE QUE L'ANGLAIS, C'EST AU CLIENT QU'IL INCOMBE DE LE FAIRE TRADUIRE.
- NE PAS TENTER D'INTERVENTION SUR LES EQUIPEMENTS TANT QUE LE MANUEL SERVICE N'A PAS ETE CONSULTE ET COMPRIS.
- LE NON-RESPECT DE CET AVERTISSEMENT PEUT ENTRAINER CHEZ LE TECHNICIEN, L'OPERATEUR OU LE PATIENT DES BLESSURES DUES A DES DANGERS ELECTRIQUES, MECANIKES OU AUTRES.

**WARNUNG**

- DIESES KUNDENDIENST HANDBUCH EXISTIERT NUR IN ENGLISCHER SPRACHE.
- FALLS EIN FREMDER KUNDENDIENST EINE ANDERE SPRACHE BENÖTIGT, IST ES AUFGABE DES KUNDEN FÜR EINE ENTSPRECHENDE ÜBERSETZUNG ZU SORGEN.
- VERSUCHEN SIE NICHT, DAS GERÄT ZU REPARIEREN, WENN DIESES KUNDENDIENST-HANDBUCH NICHT ZU RATE GEZOGEN UND VERSTANDEN WURDE.
- WIRD DIESE WARNUNG NICHT BEACHTET, SO KANN ES ZU VERLETZUNGEN DES KUNDENDIENSTTECHNIKERS, DES BEDIENERS ODER DES PATIENTEN DURCH ELEKTRISCHE SCHLÄGE, MECHANISCHE ODER SONSTIGE GEFAHREN KOMMEN.

**AVISO**

- ESTE MANUAL DE SERVICIO SÓLO EXISTE EN INGLÉS.
- SI ALGÚN PROVEEDOR DE SERVICIOS AJENO A GEMS SOLICITA UN IDIOMA QUE NO SEA EL INGLÉS, ES RESPONSABILIDAD DEL CLIENTE OFRECER UN SERVICIO DE TRADUCCIÓN.
- NO SE DEBERÁ DAR SERVICIO TÉCNICO AL EQUIPO, SIN HABER CONSULTADO Y COMPRENDIDO ESTE MANUAL DE SERVICIO.
- LA NO OBSERVANCIA DEL PRESENTE AVISO PUEDE DAR LUGAR A QUE EL PROVEEDOR DE SERVICIOS, EL OPERADOR O EL PACIENTE SUFRAN LESIONES PROVOCADAS POR CAUSAS ELÉCTRICAS, MECÁNICAS O DE OTRA NATURALEZA.



**ATENÇÃO**

- ESTE MANUAL DE ASSISTÊNCIA TÉCNICA SÓ SE ENCONTRA DISPONÍVEL EM INGLÊS.
- SE QUALQUER OUTRO SERVIÇO DE ASSISTÊNCIA TÉCNICA, QUE NÃO A GEMS, SOLICITAR ESTES MANUAIS NOUTRO IDIOMA, É DA RESPONSABILIDADE DO CLIENTE FORNECER OS SERVIÇOS DE TRADUÇÃO.
- NÃO TENHA TENTADO REPARAR O EQUIPAMENTO SEM TER CONSULTADO E COMPREENDIDO ESTE MANUAL DE ASSISTÊNCIA TÉCNICA.
- O NÃO CUMPRIMENTO DESTES AVISOS PODE POR EM PERIGO A SEGURANÇA DO TÉCNICO, OPERADOR OU PACIENTE DEVIDO A CHOQUES ELÉTRICOS, MECÂNICOS OU OUTROS.

**AVVERTENZA**

- IL PRESENTE MANUALE DI MANUTENZIONE È DISPONIBILE SOLTANTO IN INGLESE.
- SE UN ADDETTO ALLA MANUTENZIONE ESTERNO ALLA GEMS RICHIEDE IL MANUALE IN UNA LINGUA DIVERSA, IL CLIENTE È TENUTO A PROVVEDERE DIRETTAMENTE ALLA TRADUZIONE.
- SI PROCEDA ALLA MANUTENZIONE DELL'APPARECCHIATURA SOLO DOPO AVER CONSULTATO IL PRESENTE MANUALE ED AVERNE COMPRESO IL CONTENUTO.
- NON TENERE CONTO DELLA PRESENTE AVVERTENZA POTREBBE FAR COMPIERE OPERAZIONI DA CUI DERIVINO LESIONI ALL'ADDETTO ALLA MANUTENZIONE, ALL'UTILIZZATORE ED AL PAZIENTE PER FOLGORAZIONE ELETTRICA, PER URTI MECCANICI OD ALTRI RISCHI.

**警告**

このサービスマニュアルには英語版しかありません。

GEMS 以外でサービスを担当される業者が英語以外の言語を要求される場合、翻訳作業はその業者の責任で行うものとさせていただきます。

このサービスマニュアルを熟読し理解せずに、装置のサービスを行わないで下さい。

この警告に従わない場合、サービスを担当される方、操作員あるいは患者さんが、感電や機械的又はその他の危険により負傷する可能性があります。

**注意：**

本维修手册仅存有英文本。

非 GEMS 公司的维修员要求非英文本的维修手册时，客户需自行负责翻译。

未详细阅读和完全了解本手册之前，不得进行维修。

忽略本注意事项会对维修员，操作员或病人造成触电，机械伤害或其他伤害。



## **DAMAGE IN TRANSPORTATION**

All packages should be closely examined at time of delivery. If damage is apparent write "Damage In Shipment" on ALL copies of the freight or express bill BEFORE delivery is accepted or "signed for" by a GE representative or hospital receiving agent. Whether noted or concealed, damage MUST be reported to the carrier immediately upon discovery, or in any event, within 14 days after receipt, and the contents and containers held for inspection by the carrier. A transportation company will not pay a claim for damage if an inspection is not requested within this 14 day period.

Call Traffic and Transportation, Milwaukee, WI (414) 785 5052 or 8\*323 5052 immediately after damage is found. At this time be ready to supply name of carrier, delivery date, consignee name, freight or express bill number, item damaged and extent of damage.

Complete instructions regarding claim procedure are found in Section S of the Policy And Procedures Bulletins.

14 July 1993

## **OMISSIONS & ERRORS**

Customers, please contact your GE Sales or Service representatives.

GE personnel, please use the GEMS CQA Process to report all omissions, errors, and defects in this publication.



## REVISION HISTORY

| Rev.: | Date:       | By: | Description:          |
|-------|-------------|-----|-----------------------|
| 01    | 14. Aug. 02 | SØ  | Doc. release          |
| 02    | 10. Dec. 02 | SØ  | System Five included. |
|       |             |     |                       |
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## 1. Introduction

### 1. Purpose

This document describes how to replace the monitor for System FiVe / Vivid FiVe.

### 2. Contents

The “Monitor Replacement Complete, System FiVe / Vivid FiVe” FC200267 consists of the following parts:

FA200507 Cable, Monitor GND  
FC307118 EIZO cable lock  
FC307103 Adapter plate f. EIZO  
FA307626 Lock for EIZO  
066E0076 Monitor 17” EIZO  
080A359B Plate screw 3.5x9.5  
080B9040 Lock-nut M4 Hexagon  
080B1060 Nut lock M6 Durluk  
080C2066 Washer, flat (4 ea.)  
080X3147 Plug, Skiffy (4 ea.)  
FA314396 Label, System FiVe  
FB314558 Label, Vivid FiVe

### 3. Tools

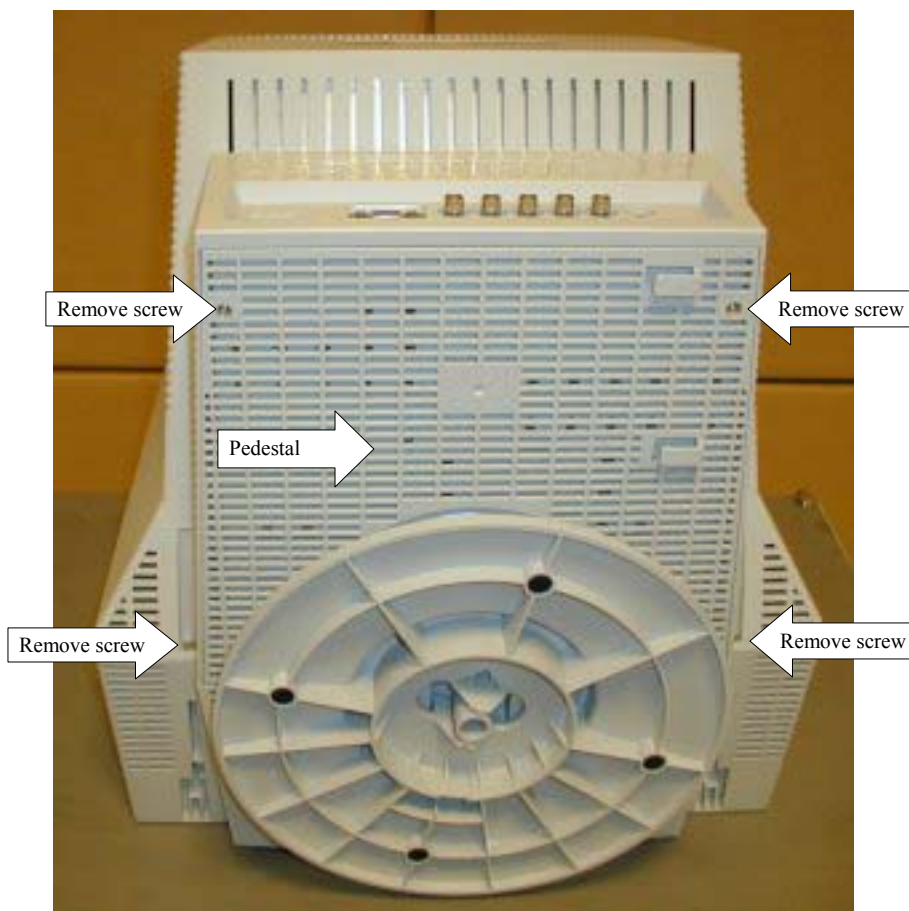
Tools needed for assembling:  
Philips Screw driver  
7mm and 10mm wrenches  
Hammer

### 4. Assembling of the mechanical parts



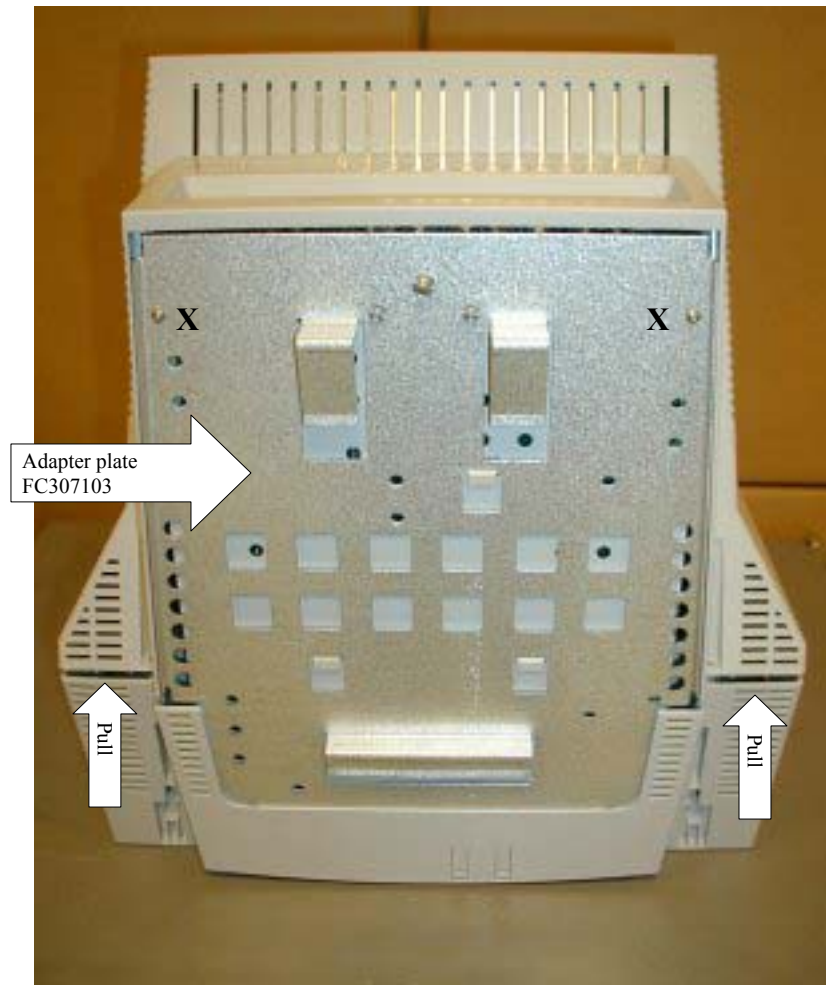
#### **CAUTION!**

**Please be aware of that the monitor weight is approx. 19 kg.  
Two persons are needed when lifting the monitor.**



**Figure 1**

Carefully lift the monitor up on a table or similar, with the screen facing down. Unscrew the 4 screws holding the original monitor pedestal in position as shown in figure 1. Remove the pedestal; keep the 4 screws near by for mounting the adapter plate.



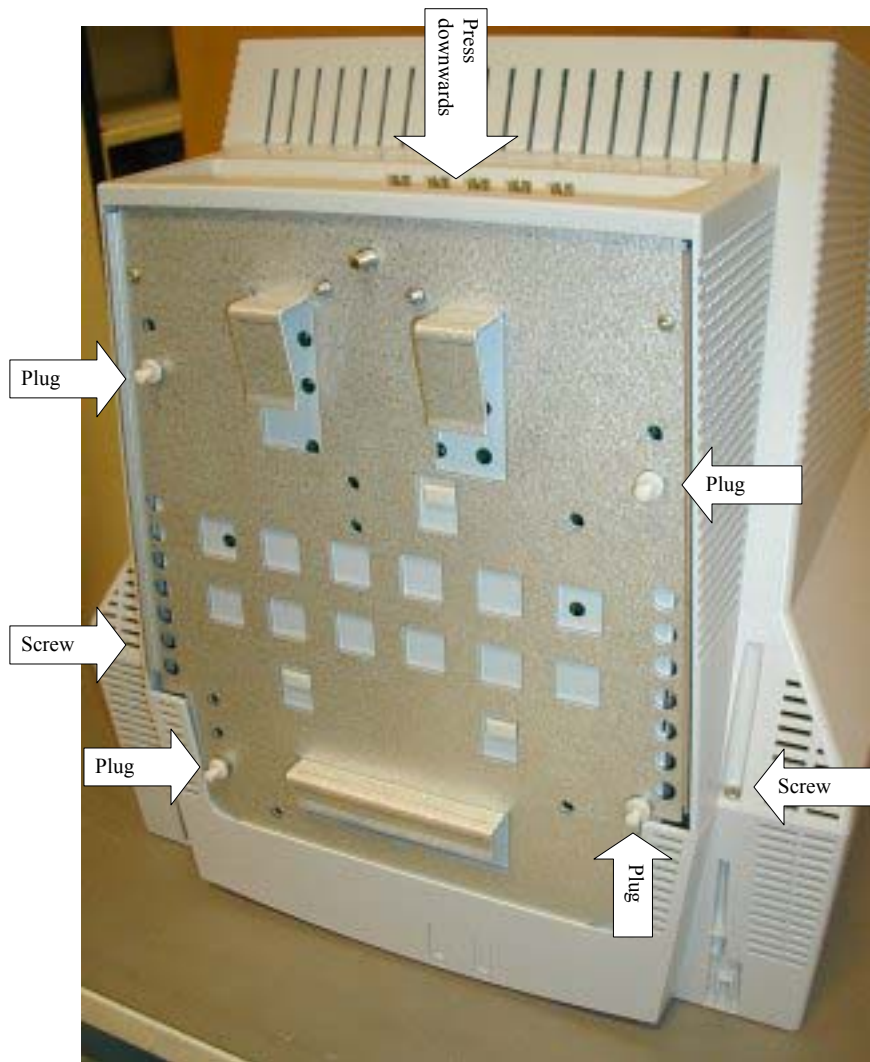
**Figure 2**

Pull the monitor cover upwards 1-2 cm. as shown in figure 2. Mount the adapter plate FC307103 as shown by using the 2 screws in position marked X.



**Figure 3**

Mount the 4 washers 080C2066 4 onto the 4 plugs 080X3147 as shown in figure 3.

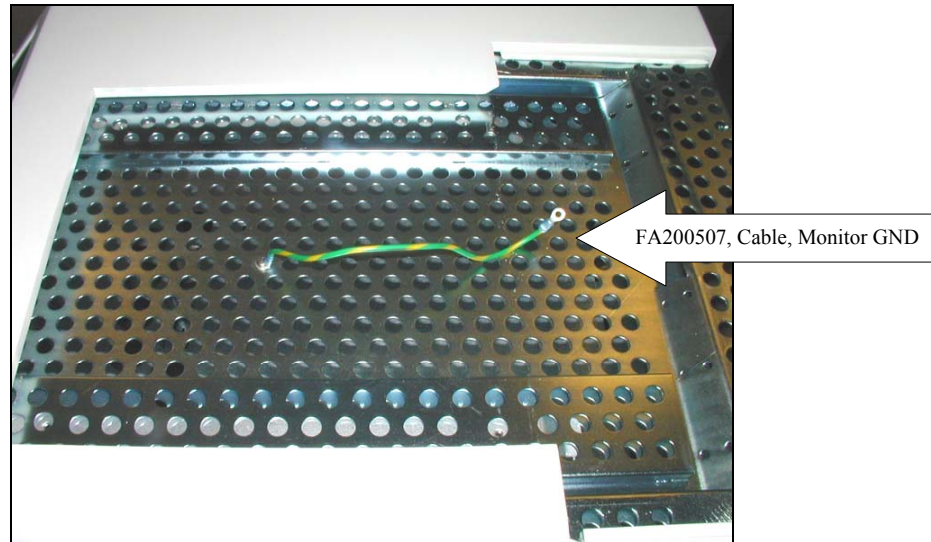


**Figure 4**

Press the monitor cover back in place and fasten it with the remaining 2 screws as shown in figure 4. Fasten the 4 plugs in the holes as shown. Use a hammer to knock the plugs into the holes. Then the monitor is ready to be mounted on the system.

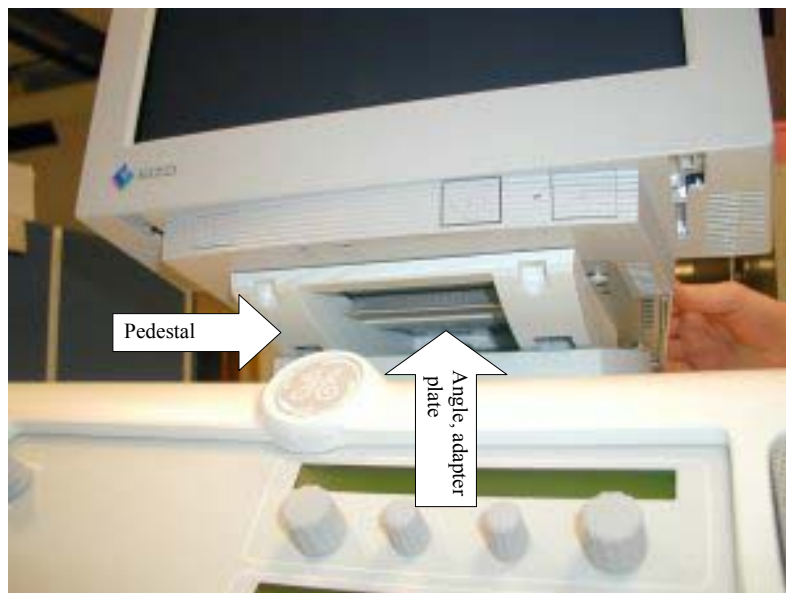


## **5. Mounting the monitor on the system**



**Figure 5**

Before installing the new monitor be sure that the monitor security ground wire is fixed to the main frame as shown in figure 5. If not, attach the security ground wire (FA200507; Cable, Monitor GND) to the frame.



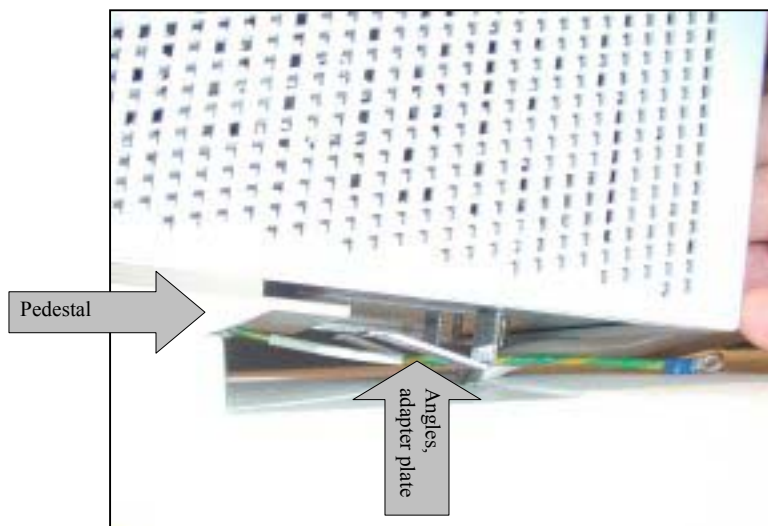
**Figure 6**

Carefully lift the monitor onto the system pedestal, and push the monitor forwards. Make sure that the angle in front of the adapter plate interferes with the pedestal as shown in figure 6.



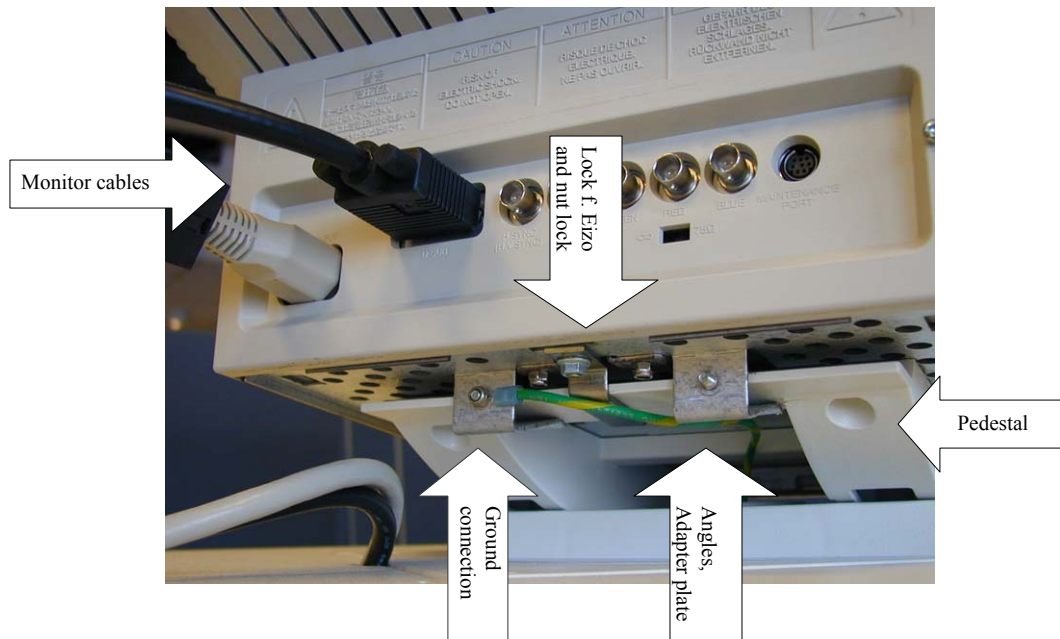
**Figure 7**

Figure 7 showing the Lock for Eizo and the nut locks.



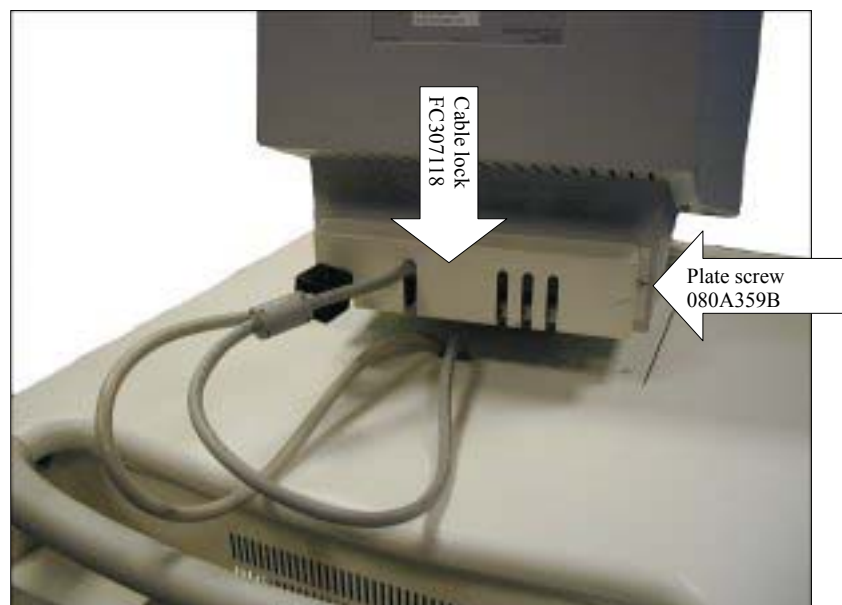
**Figure 8**

Figure 8 showing the rear right side of the monitor. Make sure the two angles at the rear of the adapter plate interferes with the pedestal.



**Figure 9**

Figure 9 showing the rear end of the monitor. Secure the monitor to the pedestal by using FA307626 Lock for Eizo and 0801060 Nut lock as shown in figure 8. Mount the ground connection between the monitor and the system. The ground connection is located under the monitor, at the rear end. Then mount the cables from the system on to the monitor.

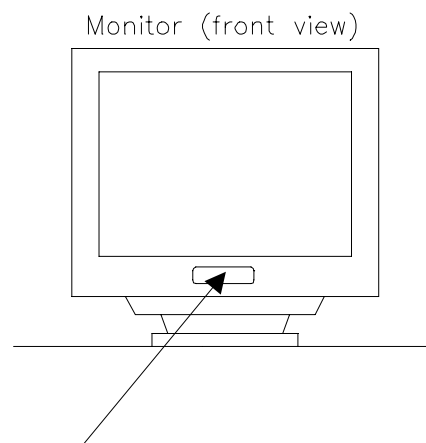


**Figure 10**

Place the FC307118 EIZO cable lock at the monitor rear end as shown in figure 10. Use 2 self-tapping plate screws 080A359B to fasten the cable lock.



## **6. Mounting the front label**



Monitor front label:  
FA314396 System FiVe  
FB314558 Vivid FiVe