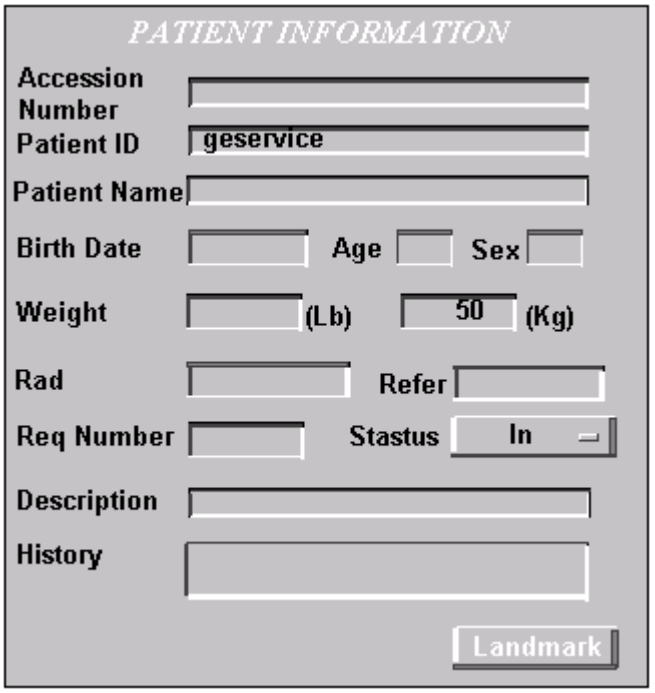
TABLE OF CONTENTS

1. Scan Parameter Setting

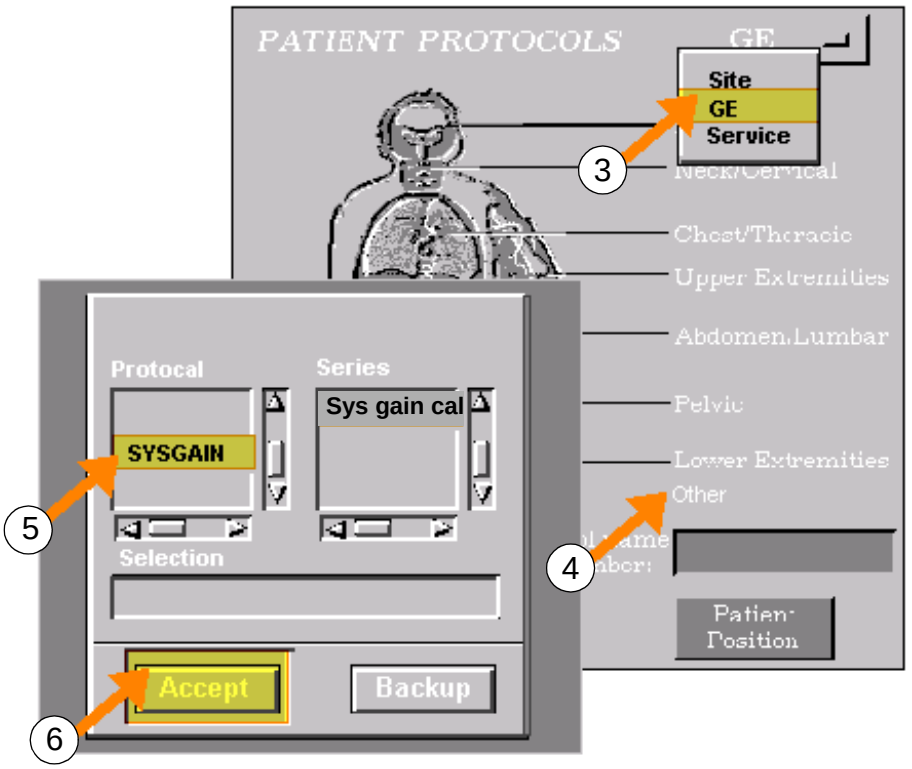
1. Click **[New Pt]**.
2. Input the following data in "patient information".
   - •Patient Data: geservice
   - •Weight: 50(Kg)



PATIENT INFORMATION
ILLUSTRATION 1

1. Scan Parameter Setting(continued)

3. Choose GE.
4. Click **Other**. Protocol window comes Up.
5. Select **[SYSGAIN]** from protocol.
   Select **[Sys gain cal]** from series.
6. Select **Accept**.



PATIENT INFORMATION
ILLUSTRATION 2

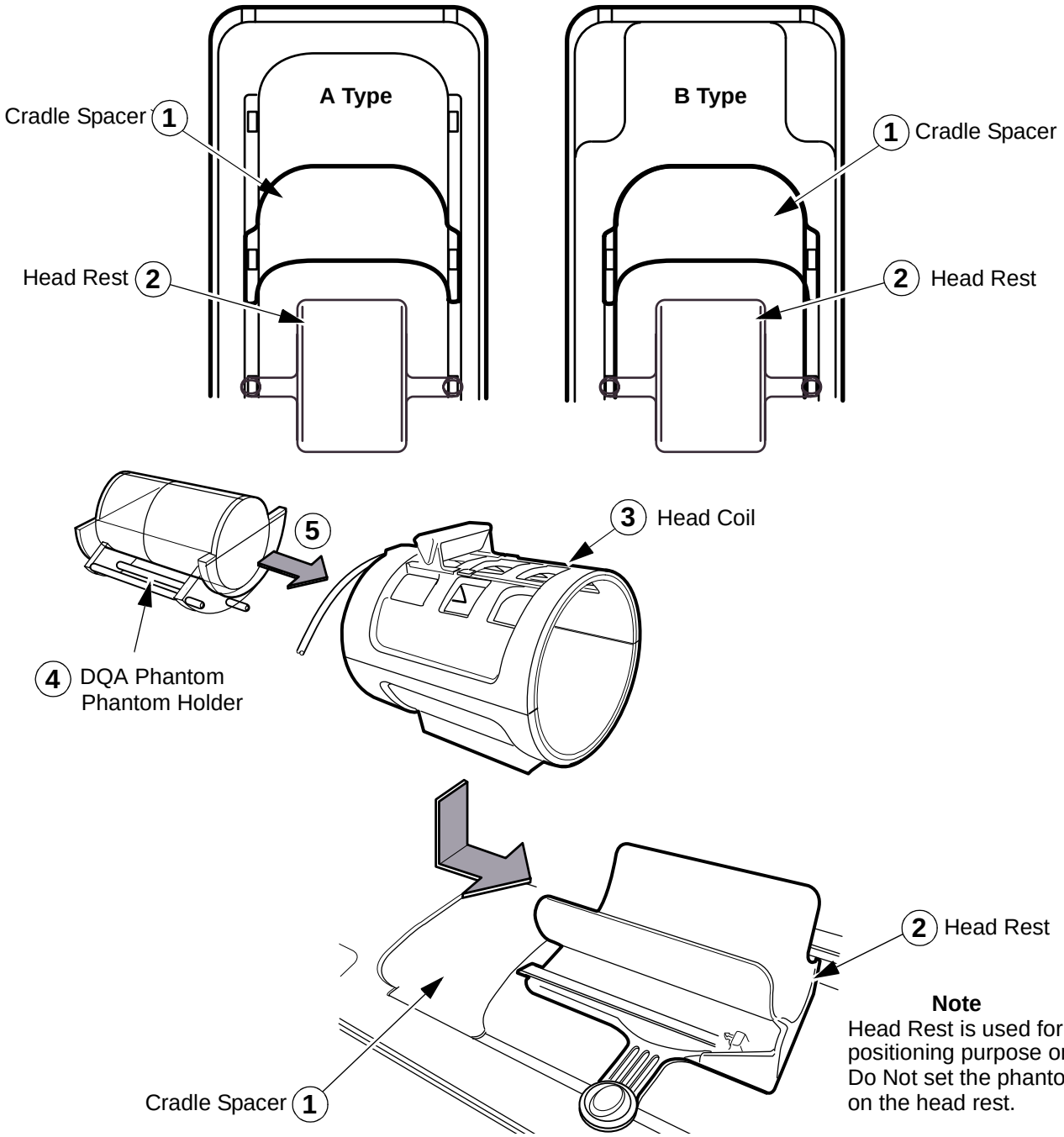
7. Select Save Series.

SAVE SERIES
ILLUSTRATION 3

2. Phantom Setting

1. Set cradle spacer to cradle.
2. Set head rest onto cradle.
3. Set head coil to head rest.
   (Head Rest is used for positioning porpose only. Do Not set the phantom on the head coil.)
4. Set DQA phantom to phantom holder.
5. Insert DQA phantom and phantom holder into head coil.

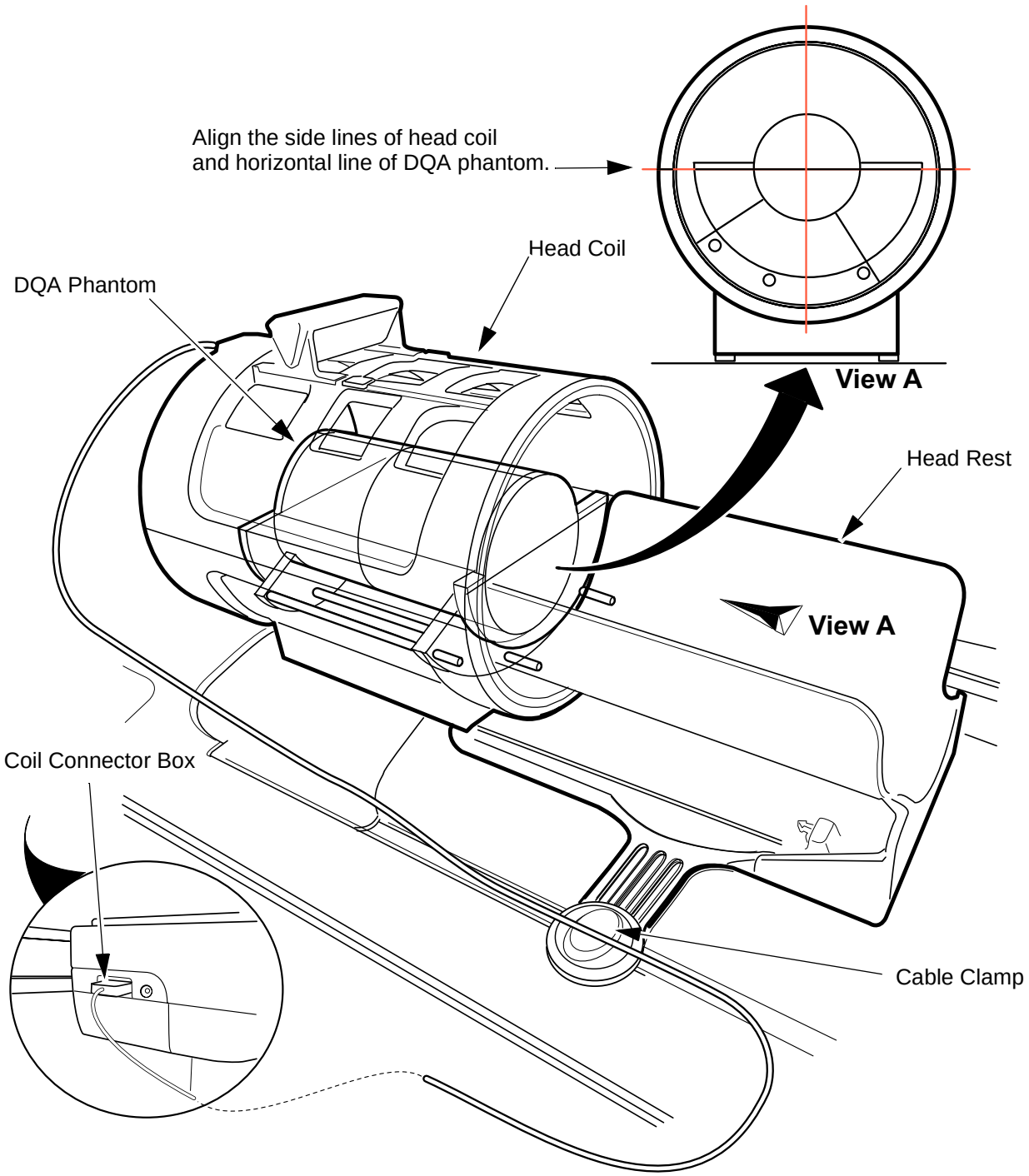
NOTE:There are two type of table as following illustration.



PHANTOM SETTING 1
ILLUSTRATION 4

2. Phantom Setting(Continued)

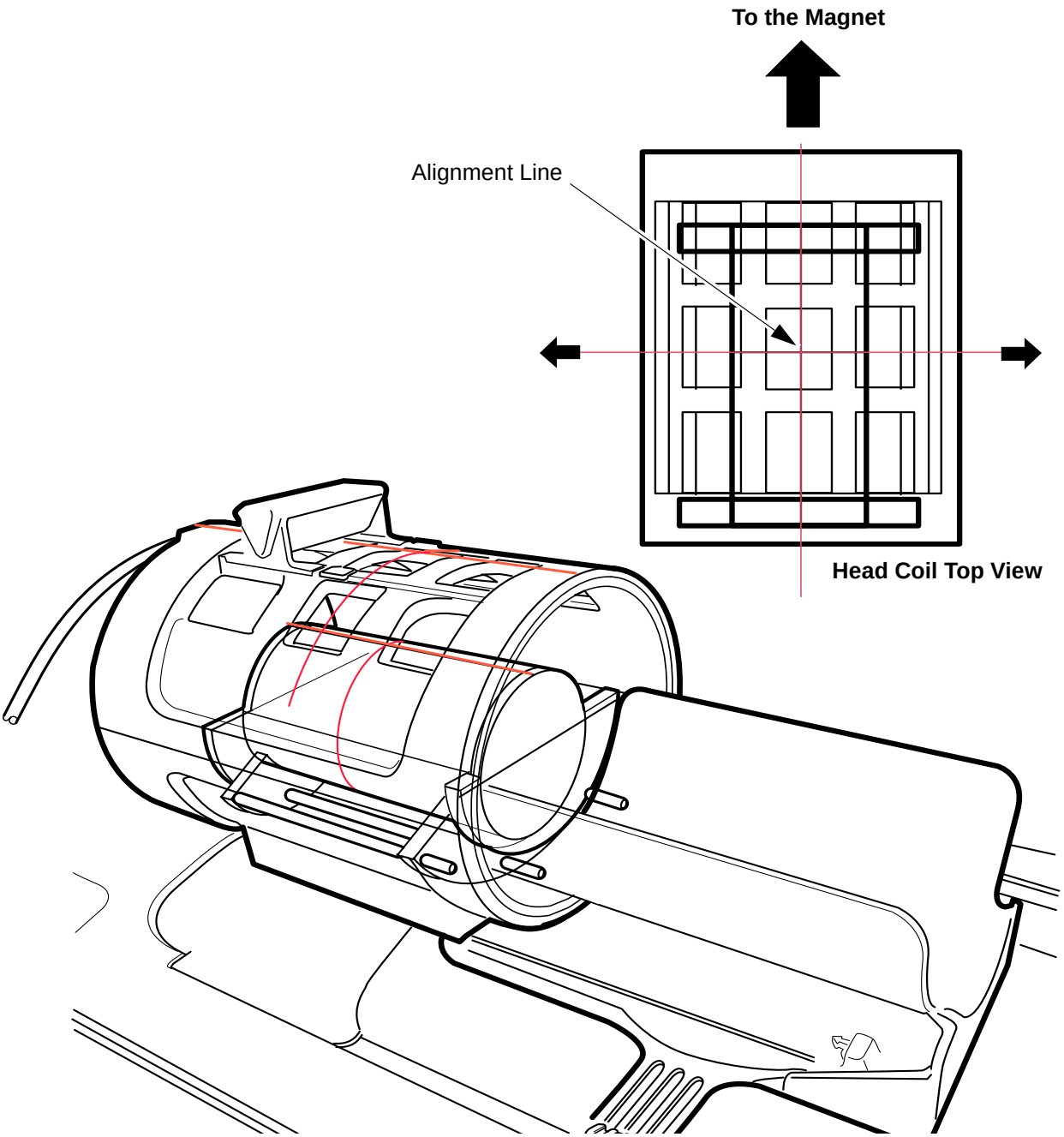
6. Align the side lines of head coil and horizontal line of DQA phantom.
7. Connect the coil connector box to table connector port.
8. Attach the coil cable to cable clamp of head rest.



PHANTOM SETTING 2
ILLUSTRATION 5

2. Phantom Setting(Continued)

9. Advance the cradle to the position where the A-light beam hits the center of coil.
10. Align the head coil and DQA phantom center position to laser center.
11. Landmark in the sagital and axial planes.
12. Move the cradle to the scan center.



ALIGNMENT
ILLUSTRATION 6

3. Scan

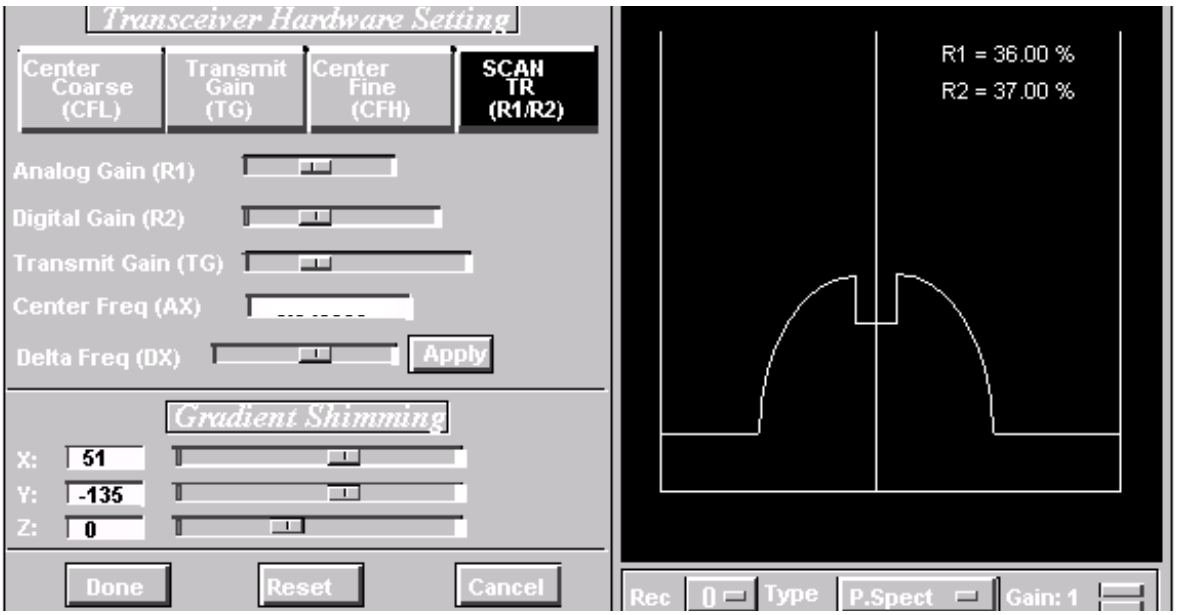
1. Move the Table 20mm by depressing the [Move to Scan] button of Keyboard.
2. Select **[Auto Prescan]**.

AUTO PRESCANSCAN
ILLUSTRATION 7

3. Select **[Manual Prescan]**.

MANUAL PRESCAN
ILLUSTRATION 8

4. Click on "**SCAN TR**" and see that the projection comes out.
5. Click on "**Done**".



SCAN TR
ILLUSTRATION 9

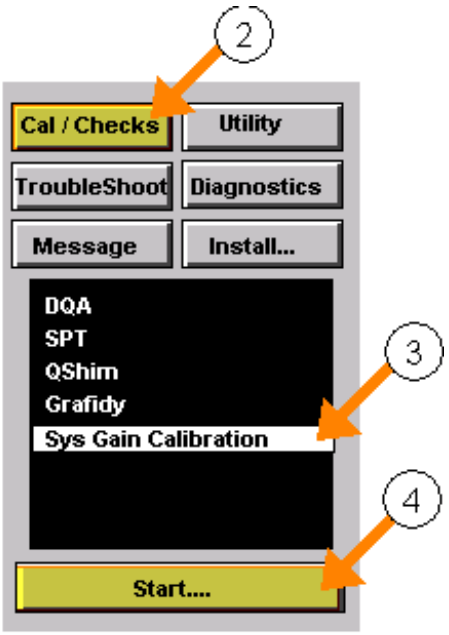
6. Select **[Scan]**..

SCAN
ILLUSTRATION 10

7. Verify that scanning has been started.

4. Data Analysis

1. Select **[Service Desktop]** Icon.
2. Select [**Cal/Checks**].
3. Select [**Sys Gain Calibration**].
4. Select [**Start...**].



CAL/CHECKS
ILLUSTRATION 11

4. Data Analysis (continued)

5. Enter as follows to update the System Gain..

Output/Prompts	Input/Comments
-------- System Gain Calibration ---------- Coil Coil name Recon scale factor. ----- --------- ------------------- 1) coil1 HEAD 1.00 2) coil2 BODY 30.00 Please select a coil entry (s or q to stop) (1..3) [1]: Enter the exam number (0..63500) [x] : Enter the series number (0..999) [x] : Enter the image number (0..999) [x] : Enter the current value of recon scale factor [x] : The desired average pixel intensity should be between 1050.00 and 1150.00. The current average : ****.** The standard deviation : **.**	**1 [Enter]** (enter a number between 0 and 63500)**[Enter]** (enter a number between 0 and 999)**[Enter]** (enter a number between 0 and 999)**[Enter]** (enter "2" at the very first) **[Enter]** **<-- Record in Data Sheet.**

6. If the average pixel intensity is between 1450 and 1550, then recon scale factor is acceptable and following is displayed.

Exit System Gain Calibration(Y,N) [Y]: **N [Enter]**

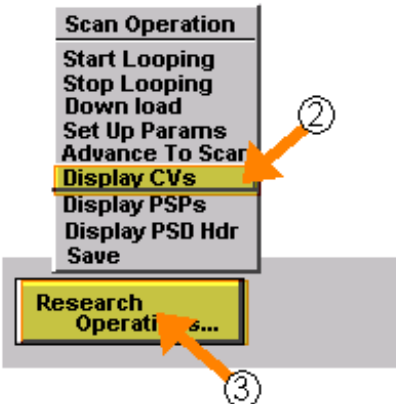
If the average pixel intensity is between 1450 and 1550, this is the end of this calibration. You don't need to perform the following procedure(Section4).

If the average pixel intensity is not between 1450 and 1550, the following is displayed.

Output/Prompts	Input/Comments
The current recon scale factor is : 1.00 Modify the recon scale factor to : *.**	**<--RecordinData Sheet.**
----- then do [Download], [Auto Prescan] and [Scan]. Press <return> key (s to stop) when the scan is com-pleted.	**Do not hit any key in here.** **Proceed as below**

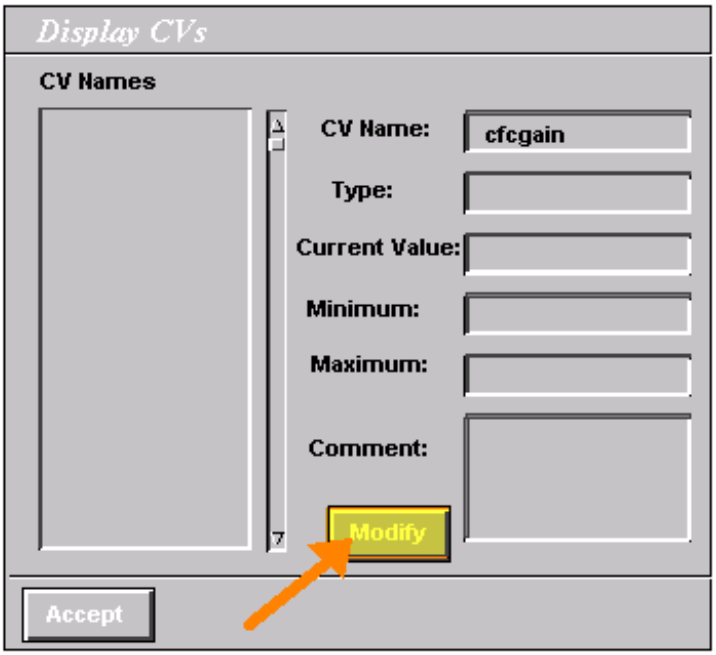
5. Recon Scale Factor Modification

1. Select **[Scan Tool]** Icon.
2. Click **[Research Operation]**.Click [Display CVs].



DISPLAY CVS
ILLUSTRATION 12

3. Enter CV name [cfcgain].

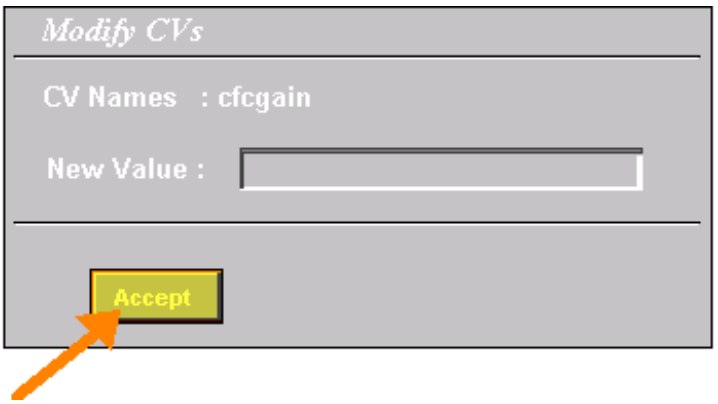


CV NAME
ILLUSTRATION 13

4. Select **[Modify]** button .
5. Enter New Value .
6. Press **[Return]** button.

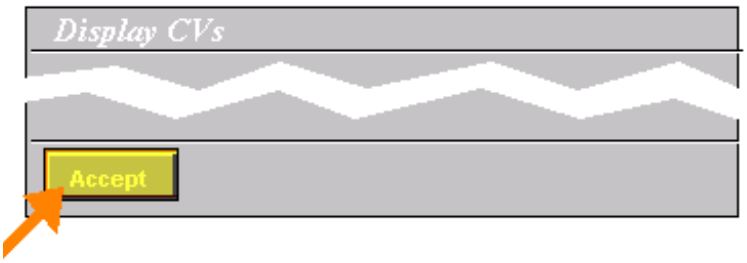
5. Recon Scale Factor Modification (continued)

7. Press **[Accept]** button.



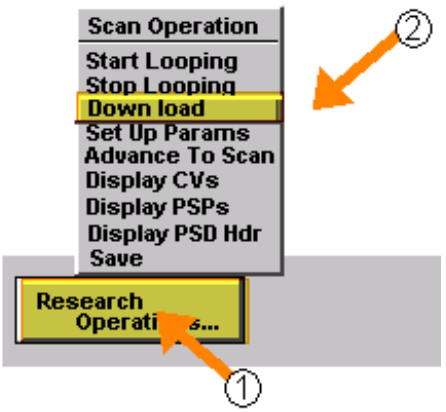
MODIFY CVS
ILLUSTRATION 14

8. Press **[Accept]** button.



DISPLAY CVS
ILLUSTRATION 15

9. Select **[Reserch Operation]**.
10. Select **[Down Load]** .



DISPLAY CVS
ILLUSTRATION 16

5. Recon Scale Factor Modification (continued)

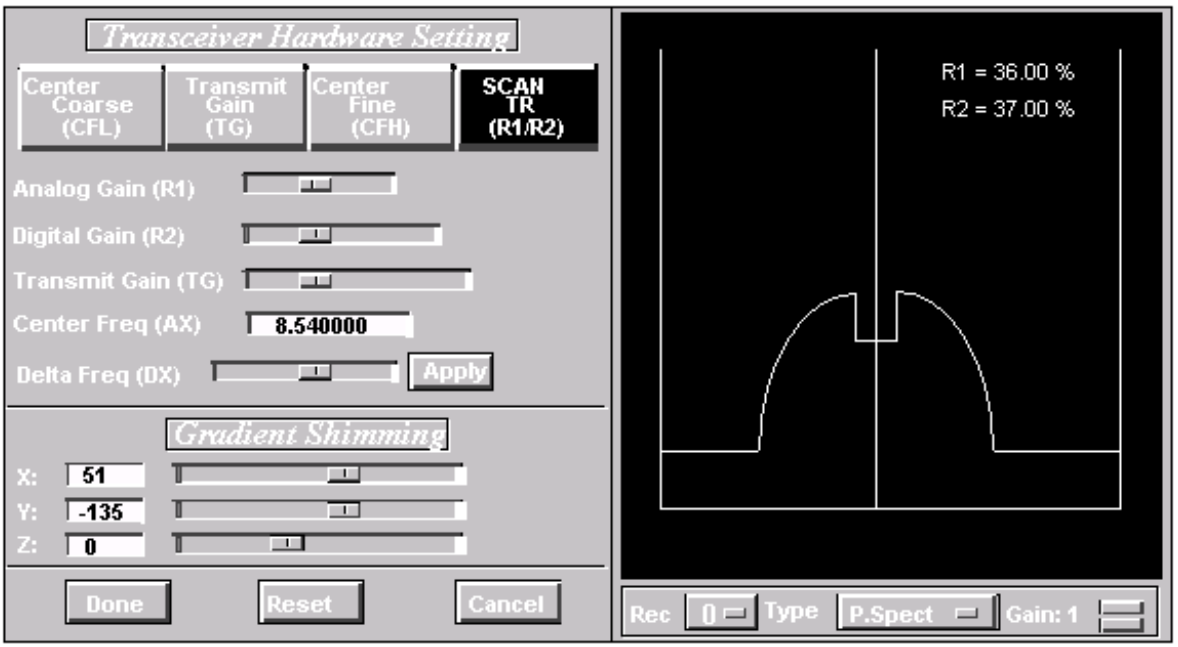
11.Select **[Auto Prescan]**.

AUTO PRESCAN
ILLUSTRATION 17

12.Select **[Manual Prescan]**.

MANUAL PRESCAN
ILLUSTRATION 18

13.Click on "**SCAN TR**" and see that the projection comes out.
14.Click on "**Done**".



SCAN TR
ILLUSTRATION 19

15.Select **[Scan]**..

SCAN
ILLUSTRATION 20

16.Verify that scanning has been started.

5. Recon Scale Factor Modification (continued)

17..After recon scale is modified, continue inputting the following data after the scan..

Output/Prompts	Input/Comments
The desired average pixel intensity should be between 1450.00 and 1550.00. The current average : ****.** The standard deviation : **.** Do you want to save the recon scale factor (Y,N) [Y] : Exit System Gain Calibration(Y,N) [Y]:	<-- Record in Data Sheet. **Y [Enter]** **N [Enter]**

18.Reboot the System.

Revision History

Rev	Date	Author	Primary Reasons For Change
0	Jan 26, 2000	Y. Masumo	Initial Release
1	May 15, 2001	Y. Masumo	Phantom setting was updated. Misc Correction.
2	Oct 22, 2001	Y. Masumo	Page 5: Added the purpose of Head Rest. Page 7: Added to move the table by depressing [Move to Scan] button.
3	Aug 22, 2002	Y. Masumo	Page 9 and Page 13: Corrected message