LASER LIGHT ALIGNMENT PROCEDURE

TABLE OF CONTENTS

WARNING!

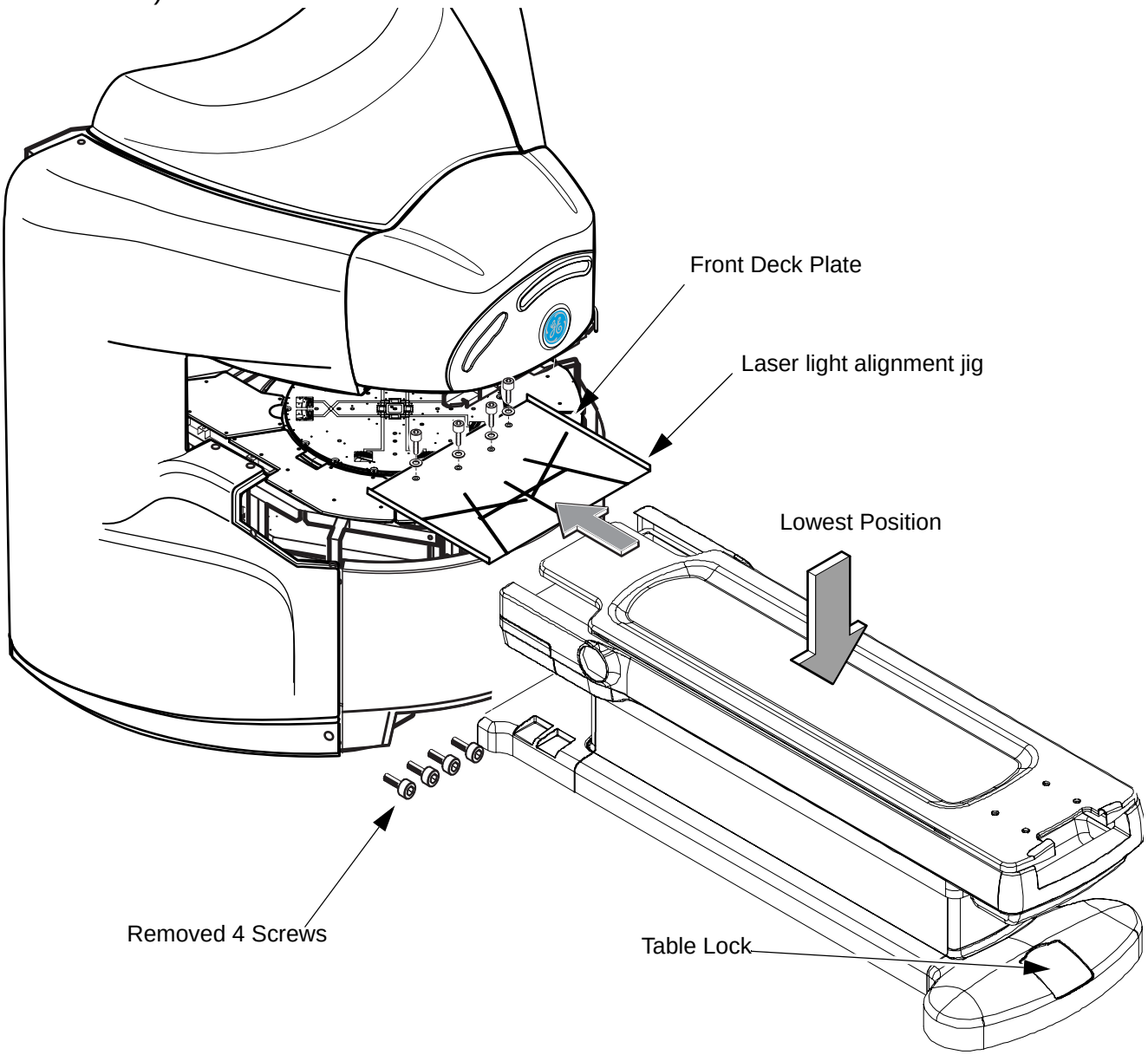
LASER RADIATION: DO NOT STARE INTO BEAM AND REFLECTION BEAM.(THIS IS CLASS II LASER PRODUCT.)

1. Required Tool

- •Laser Light Alignment Jig
- •Non-magnetic - screwdriver
- •Protective eye wear

2. Alignment Jig Setting

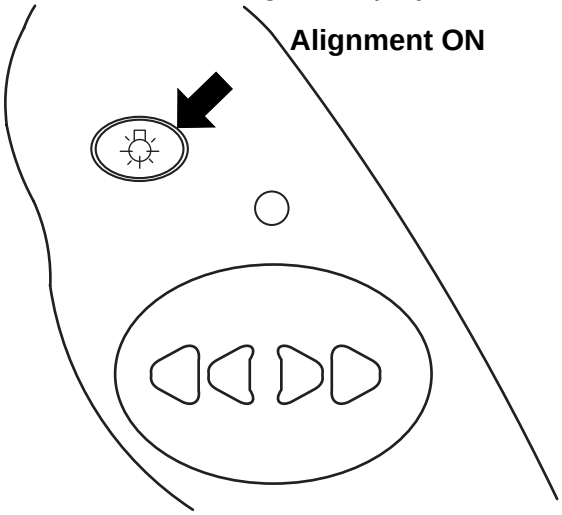
1. Drive the table to it lowest position according to following condition.
   - •Power On
   - •Table Lock (Foot Pedal)
   - •Center Pivot Sensor ON(HP) on table rail
2. Remove 4 screws(M6L25) from pole piece side of front deck plate.
3. Place the Laser light alignment jig onto front deck plate.
4. Fix the Laser light alignment jig to front deck plate with 4 screws(N9650UM)/washers(M6-P9333DW).



ALIGNMENT PLATE
ILLUSTRATION 1

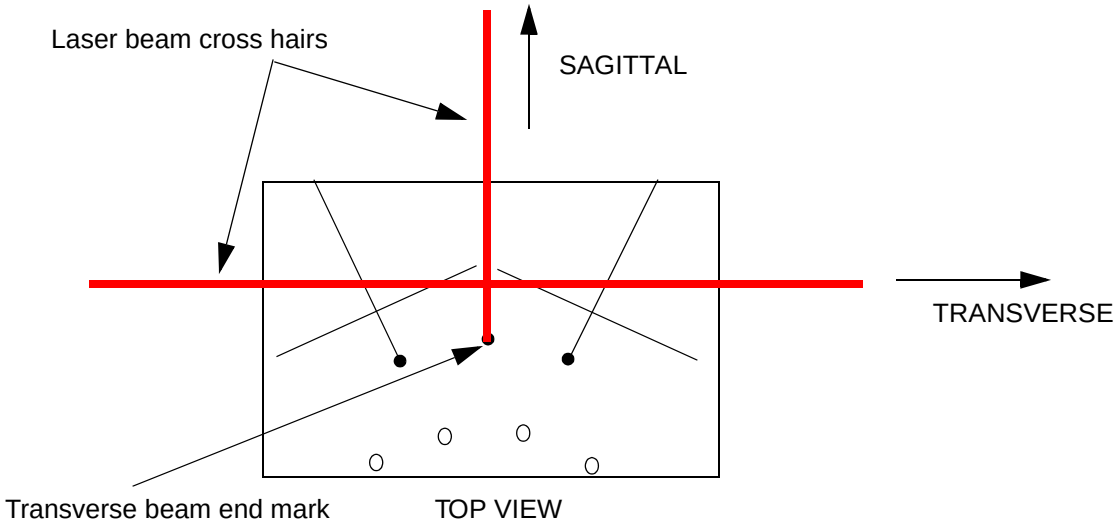
3. Zero Position Alignment Light Adjustment

1. Move the Swing Table so that magnet display shows 0 degree.
2. Step onto the Table break lock located at rear foot of the Table.
3. Press the Align On push button on the magnet display.



ALIGNMENT SW
ILLUSTRATION 2

4. Observe the light beam at the top of the patient aperture. Verify that the light beam is unobstructed.
5. Check the laser alignment to verify that the light beam cross hairs coincide with the reference cross hairs of the Alignment Light adjustment plate.



ALIGNMENT LIGHT ADJUSTMENT
ILLUSTRATION 3

6. First, check the orientation of the laser lines to ensure they are parallel with the corresponding cross hairs on the Plate.

3. Procedure(continued)

7. If the alignment needs to be rotated, remove the alignment light bezel cover with a nonmagnetic screwdriver.

8. Then check the coincidence of the sagittal beam with the vertical plane of the patient entrance. If adjustment is necessary, loosen the set screw and gently move the laser light until the beam is aligned. Retighten the rear set screw.

   Recommendation: Loosen the set screw just enough to move the laser. The friction will help you adjust the laser to exact position. Use a small piece of clear tubing that fits snug over the laser aperture. Use this tubing as an extension to adjust the laser light in all directions.

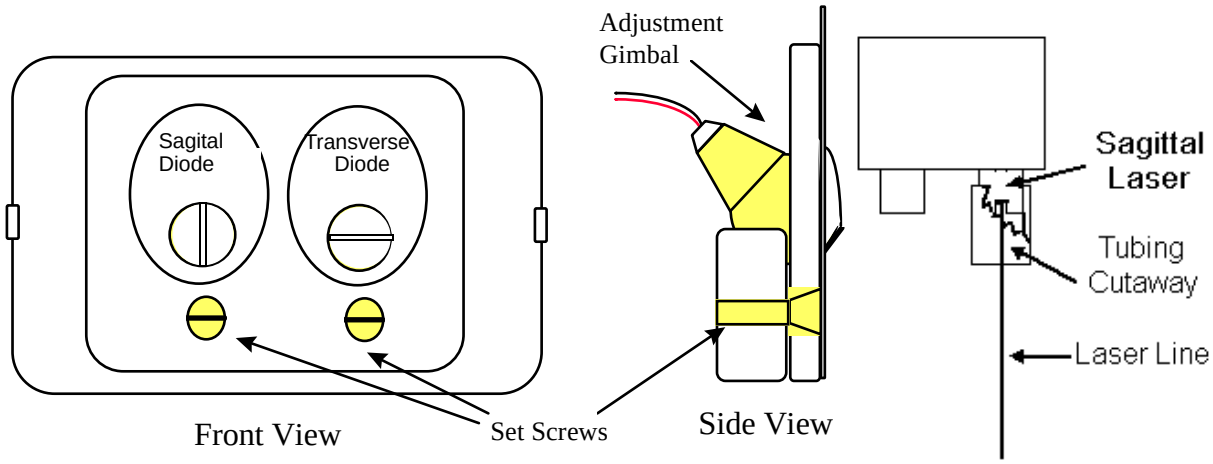
CAUTION

DO NOT adjust the lasers by using a screwdriver in the aperture slot. The plastic aperture is not designed for the torque pressure. You may damage the laser.

9. Adjust the sagittal beam so that the end of the beam is adjusted to the mark on the plate. See illustration 3.
10. Then check the coincidence of the transverse beam with the vertical plane of the patient entrance. If the beam alignment line is necessary, loosen the set screw and gently move the laser light until the beam is aligned. Retighten the rear set screw.

Note

If you cannot adjust the Center Laser to achieve a straight line down the center, it may be necessary to remove the entire laser light enclosure assembly and adjust the mount holes to allow for its movement to the left and right.



LASER DIODE ASSEMBLY DETAIL
ILLUSTRATION 4

11. Perform Left and Right Alignment light by following from step3 to step11.
    (It is necessary to move the table to the proper position and lock the Table to turn the alignment light on.)
12. Remove all tools and restore the alignment light bezel cover.

Revision History

Rev	Date	Author	Primary Reasons For Change
0	Feb 12, 2001	Y. Masumo	Initial Version
1	Mar 13, 2001	K. Tsumagari	Misc Correction
2	May 9, 2003	Y. Masumo	P4: Corrected position of Sagital and Transverse Diode