

4.2 ALIGNMENT OF X-RAY FIELD TO LIGHT FIELD

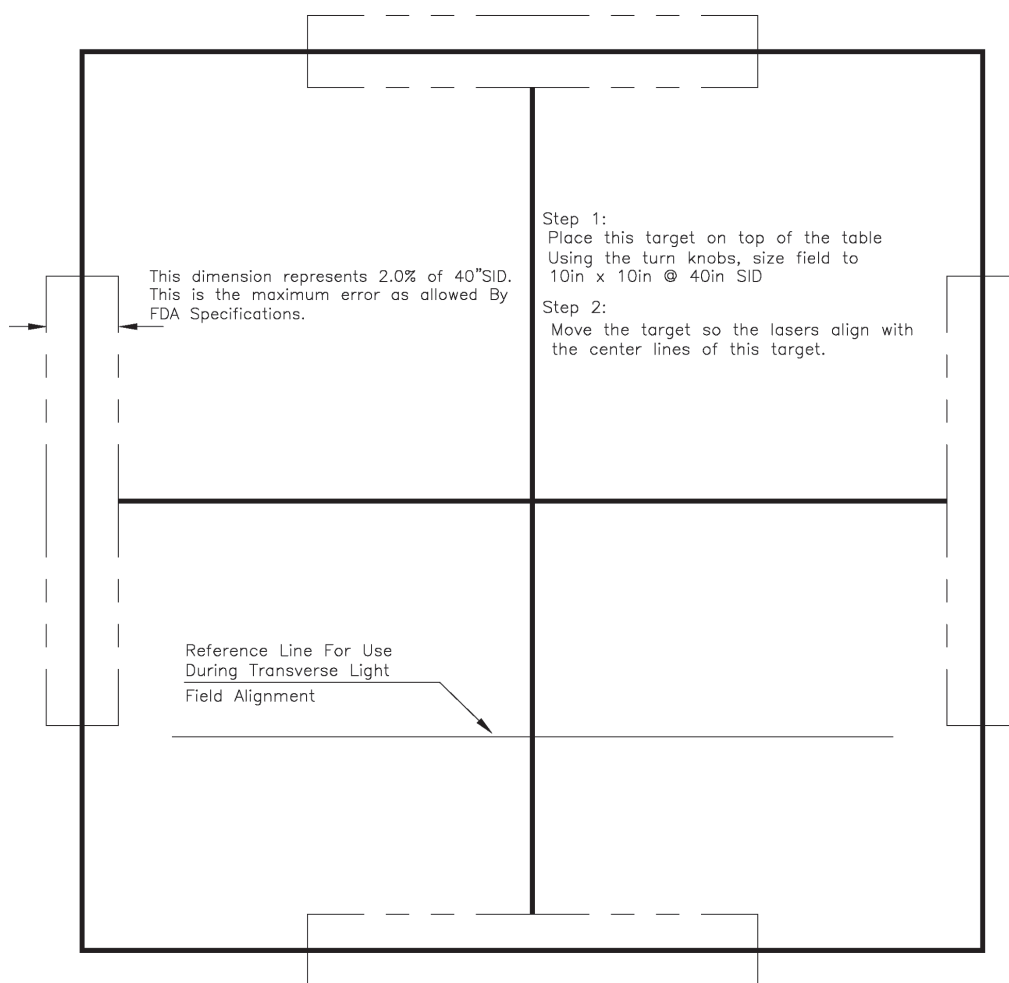
CAUTION: DO NOT REMOVE HOUSING TO ALIGN LIGHT FIELD OR LASERS.

The light field and lasers are aligned to the center of the collimator at the factory and should not require further adjustment.

The collimator mount is not adjustable for transverse or longitudinal alignment. Align the light field to match the x-ray field per the following instructions:

Carefully ensure that both the x-ray source/collimator assembly and target are properly leveled in x and y and that the SID is set at 40 inches (1 meter). Any error in x-ray source/collimator and/or target level/alignment will cause errors in the alignment procedure. A beam parallel tool will help establish proper alignment. Follow the manufacturer's instructions for use of the beam parallel tool.

1. Place a Collimator Test Target (shown below & provided in shipping box collimator manual bag) on top of the x-ray cassette or image detector. Using the turn knobs, adjust the field size to 10in x 10in @ 40in SID.



2. Turn on the collimator light/lasers and move the Collimator/X-ray Tube Assembly so the lasers align with the center lines of the target.
3. Take an appropriate exposure and compare the X-ray image to the light field.
4. If the x-ray to light field alignment is not satisfactorily within 2% of SID total error, per FDA allowance, then the light field alignment can be adjusted per section 4.3.1 Light Field Adjustment, page 25.