



Priority Level: Low — Useful Information

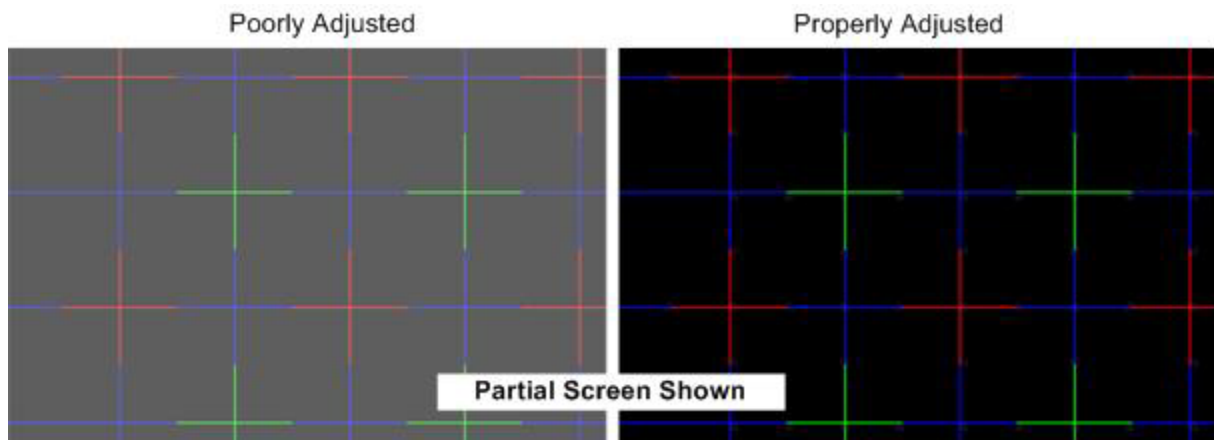
Attention:	All Service Personnel	Bulletin: SB-043 Date: 5/16/2008
Products:	America's Army	
Issue:	Light Gun Calibration Help	

Symptom: For the light gun to calibrate properly, the monitor must be adjusted to have adequate contrast, and the image must not extend beyond the viewable area of the screen.

Solution: Perform the steps below to adjust the monitor for optimal light gun performance.

Note: CGA and EGA monitors require software version 1.0.1.82 or later.

1. Locate your monitor remote control board. The location and use of the board will vary depending on the monitor used in your cabinet. If the board has a degauss button, press it for a clean image.
2. Press the Operator button and select **Diagnostics: Monitor** from the Operator Menu to open a series of monitor test screens. Press SELECT or shoot at the screen to cycle through the various test screens. The screen shown below is useful for the adjustments described in this document.



3. Use the monitor remote control board to adjust the size of the image on the monitor. Adjust the horizontal and vertical image size until you can see all four edges of the image, and then move the image edges close to the edges of the monitor. You may also need to adjust the horizontal and vertical position.
4. Use the monitor remote control board to adjust the brightness and contrast so that the image looks sharp, the blacks are black, and the colors stand out well.
5. If you cannot get the desired results with the brightness and contrast adjustments, you may need to adjust the Focus Knob located on the Flyback Transformer on the monitor chassis. Only experienced technicians should touch components on the monitor chassis.



DANGER: Components in the monitor chassis can be charged with a **VERY HIGH VOLTAGE** even when powered OFF.

Calibrating the Guns

Calibrate the guns every month to ensure optimal performance. Also be sure to calibrate the guns any time you service or replace a gun or install software.

1. Open the Diagnostics: Gun Calibration Menu in the Operator Menu. The first screen shown below will appear. Note that it displays the current coordinates for the Player 1 (P1) and Player 2 (P2) guns (or the coordinates where the gun last left the screen).
2. Pull the trigger for the gun you wish to calibrate, and the second screen will appear, prompting you to aim at the upper left target and pull the trigger.
3. For the most accurate results, gently place the barrel of the gun against the display shield glass, aligned with the target, and pull the trigger.
4. Repeat step 2 for the center and lower right targets to complete calibration.

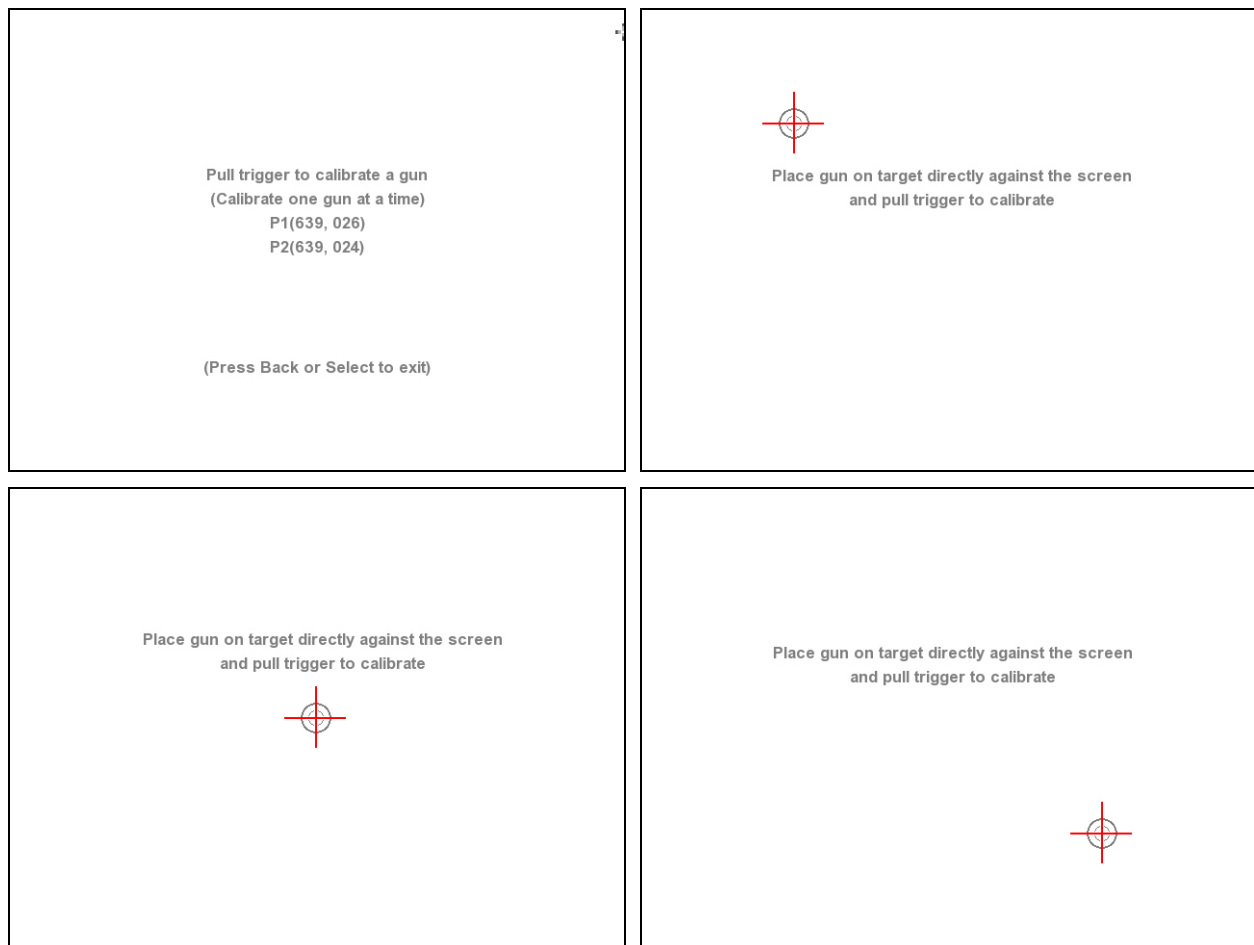


Figure 1. Gun Calibration Screens