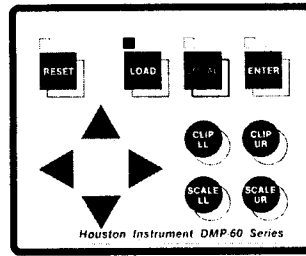
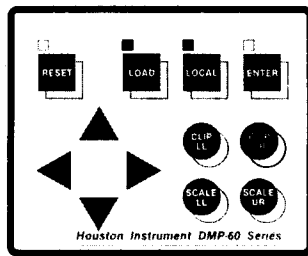
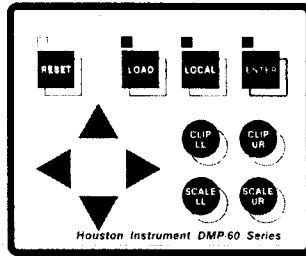
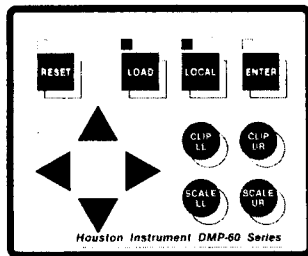


Next, use the MANUAL MOVEMENT KEYS to move the pen holder to the position of the upper right window marker illustrated in Figure 2-10. After the pen holder is positioned, specify this location as the new upper right corner point of the window by pressing ENTER (the LED indicator will illuminate), and then CLIP UR. (After CLIP UR is pressed, the ENTER indicator will turn off.) Register the corner points by pressing the LOCAL key (the LOCAL indicator will turn off).



Use the **MANUAL MOVEMENT KEYS** to move the pen holder to the position of the viewport marker illustrated in Figure 2-11. (This is the point below and to the left of which the plotter draws the plot design.) After the pen is positioned, initiate the customer confidence test routine by pressing the **▲** and the **▼** keys simultaneously. (The plotter will pause before and during the customer confidence test plot. As explained in Paragraph 2.8.1, pen pause is normal when clipping plot designs.) The only design the plotter draws during this customer confidence test is the clipped circle/arc design.

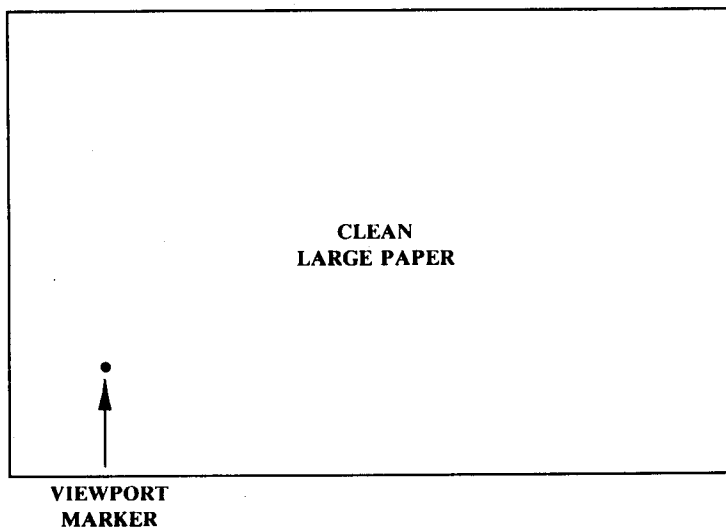


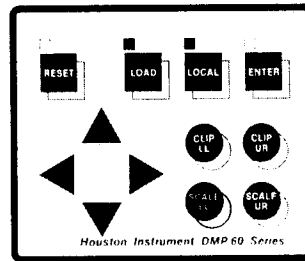
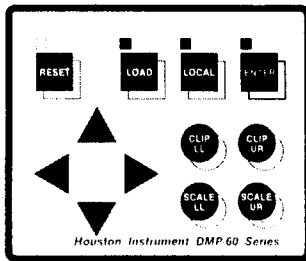
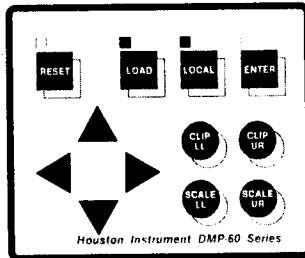
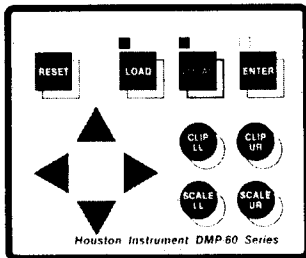
FIGURE 2-11. VIEWPORT MARKER

2.8.3 Scaling

This section shows you how to change the size and aspect of a plot design using the scale box. The plot design used in the following procedure is the customer confidence test plot.

1. Insert a clean sheet of large chart media in the plotter and position it at the load position.
2. Press **RESET**. This causes the window limits that were set in the previous procedure to default to maximum page.
3. Press **LOCAL**. Initiate the customer confidence test routine by pressing the **▲** and **▼** keys simultaneously.
4. Because the plotter was reset in step 2, the plotter has maximum window limits. This means that the plotter will scale the entire page, which includes the customer confidence test plot design, to the dimensions of the scale box.

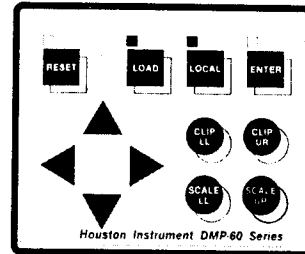
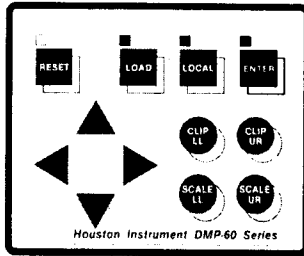
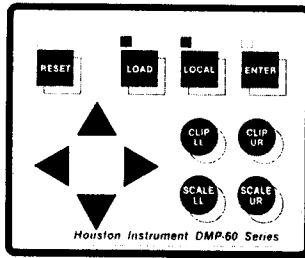
Just for fun, let's grossly exaggerate the aspect of the design with scale box limits so you'll see the full power and potential of this feature. Press LOCAL, and then use the MANUAL MOVEMENT KEYS to move the pen holder to the location specified by the lower left scale box marker shown in Figure 2-12. After the pen holder is positioned, specify this point as the lower left corner of the scale box by pressing ENTER and then SCALE LL. (The ENTER indicator will illuminate when ENTER is pressed and will turn off when SCALE LL is pressed.)



OPERATION

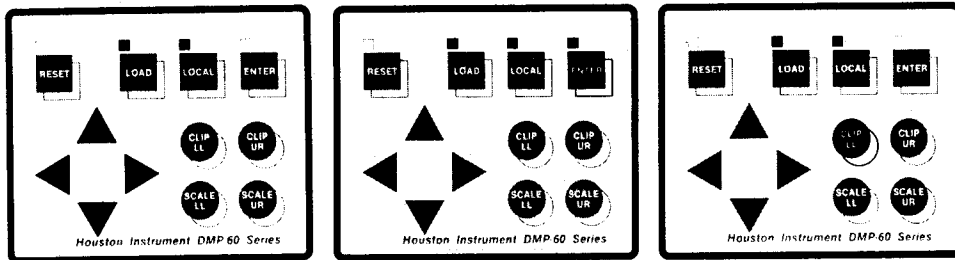
2-66

Next, use the MANUAL MOVEMENT KEYS to move the pen holder to the location specified by the upper right scale box marker shown in Figure 2-12. After the pen holder is positioned, specify this point as the upper right scale box corner by pressing ENTER and then SCALE UR. (Again, the ENTER indicator will illuminate when ENTER is pressed and will turn off when SCALE UR is pressed.) Register the corner points by pressing the LOCAL key (the LOCAL indicator will turn off).



The following procedures explain how to scale plot designs using the auto scale function.

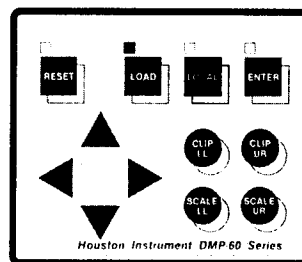
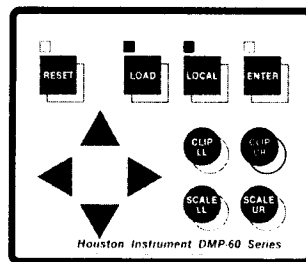
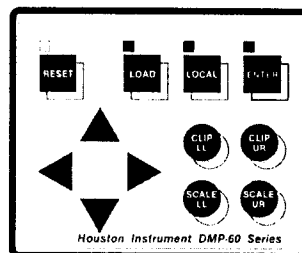
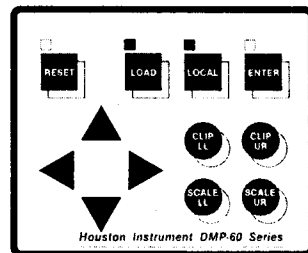
1. Insert a clean sheet of large chart media in the plotter and position it at the load position.
2. Press **RESET**. This causes the window and scale box limits that were set in the previous procedure to default to maximum page.
3. Press **LOCAL** for manual control of the plotter, and then initiate the customer confidence test routine by pressing **▲** and **▼** simultaneously. After the routine completes, press **LOCAL** again for manual control.
4. In this exercise, you will clip the diamond/circle design from the plot design with the window, and then use the auto aspect function to reproduce it at the original aspect but at a larger size. Use the **MANUAL MOVEMENT KEYS** to move the pen holder to the location indicated by the lower left window marker shown in the illustration in Figure 2-14. After the pen holder is positioned, specify this point as the new lower left corner of the window by pressing **ENTER** and then **CLIP LL**.



OPERATION

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Next, use the **MANUAL MOVEMENT KEYS** to move the pen holder to the location indicated by the upper right window marker shown in the illustration in Figure 2-14. After the pen holder is positioned, specify this point as the new upper right corner of the window by pressing **ENTER** and then **CLIP UR**. Press the **LOCAL** key and the diamond/circle design is now clipped from the plot by the window.

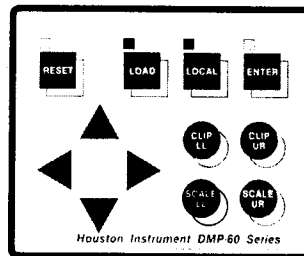
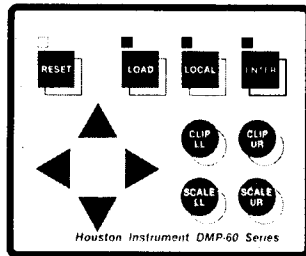
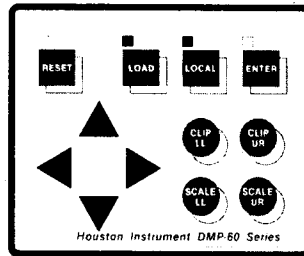
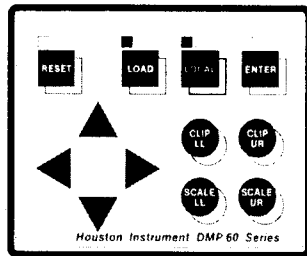


OPERATION

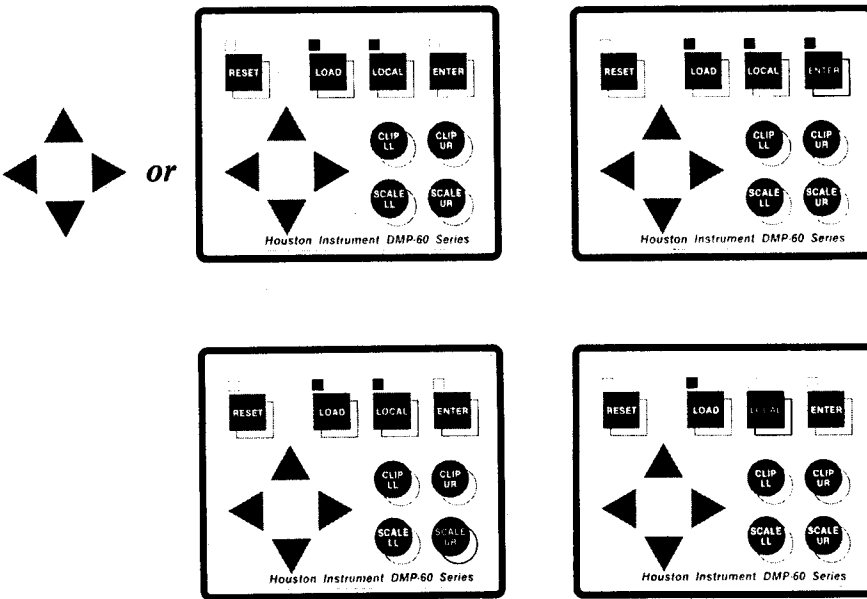
2-72

5. Next, you will use the auto aspect feature to “show” the plotter what size you want the reproduction of the clipped diamond/circle design to be.

Press **LOCAL** for manual control, and use the **MANUAL MOVEMENT KEYS** to move the pen holder to the location indicated by the lower left scale box marker shown in the illustration in Figure 2-15. After the pen holder is positioned, specify its location as the new lower left scale box corner by pressing **ENTER** and then **SCALE LL**.



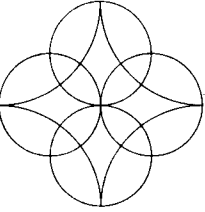
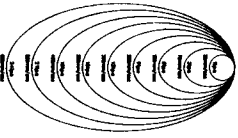
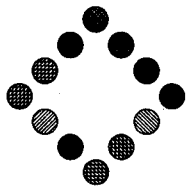
Next, if you have large chart format media installed, use only the ▼ key to drive the chart forward until the position of the upper right scale box marker shown in Figure 2-15 is underneath the pen. If you have small chart format media installed, use only the ► key to drive the pen holder to the upper right scale box marker. Specify this location as the new upper right scale box corner by pressing ENTER and then SCALE UR. Press the LOCAL key to register the scale box points. The distance between these two points specifies the length of the x-axis for the reproduction of the clipped design. The height of the y-axis, which in this case determines the design's aspect, is automatically calculated by the plotter.



In the last procedure, you were shown how to use the auto aspect function by specifying points along the x-axis. Repeat the procedure again, but this time, specify y-axis points for auto aspect by using the lower left and upper right scale box markers shown in Figure 2-16 instead of the ones in Figure 2-15 when specifying the scale box corners in step 5. If you have large chart format media installed, use the ◀ key instead of the ▼ key to move from the lower left scale box corner to the upper right scale box corner. If you have small chart format media installed, use the ▲ key instead of the ▶ key to move from the lower left scale box corner to the upper right scale box corner.

UR SCALE BOX MARKER

DMP-60 Series

<p>Quality & Reliability</p> <p>Accuracy: $\pm 0.01^\circ$ or 0.2% of range Resolution: $\pm 0.005^\circ$ or 0.2% of range Repeatability: $\pm 0.005^\circ$ (single shot) Resolution: 0.0005" High Speed Smooth Curve Generator</p> 	<p>Increased Throughput</p> <p>Velocity: DMP-61: 25 in/s (640 mm/s) DMP-62: 300 in/s (7620 mm/s) DMP-63: 400 in/s (10160 mm/s) Acceleration: DMP-61: 4 g DMP-62: 2 g</p> 
<p>Extensive Features</p> <p>Media sizes: DMP-61: 11.5" x 11.5" (292 mm x 292 mm) DMP-62: 8.5" x 11.5" (216 mm x 292 mm) DMP-63: 8.5" x 8.5" (216 mm x 216 mm)</p> <p>Software compatibility: IBM, or VME Frame font & chart input capability Multiple fonts Proportional & non-proportional text spacing Operator data storage</p> <p>ASCII: ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz Japanese (Katakana): アイウエオカキクケコサシスセソ ナニヒフヘフヘフヘフヘフヘフ Greek: ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΠΙ ΙΙΙΙ ΙΙΙΙ ΙΙΙΙ ΙΙΙΙ ΙΙΙΙ ΙΙΙΙ ΙΙΙΙ</p>	<p>Add-On Capability</p> <p>Automatic paper jam detector Office scanner 1 Megabyte buffer or hard drive for bit memory (optional) (Standard U.S. only) Resolution of 0.1 mm (0.003937")</p> 

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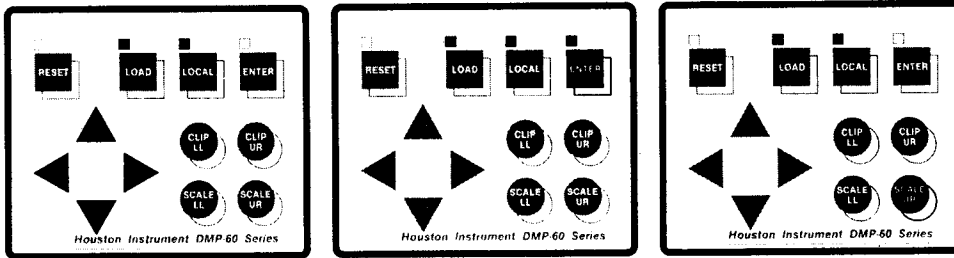
LL SCALE BOX MARKER

FIGURE 2-16. LOWER LEFT/UPPER RIGHT (Y-AXIS) SCALE BOX MARKERS

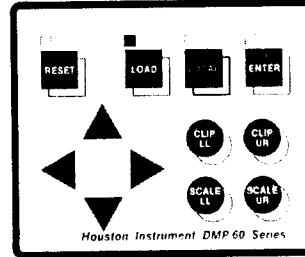
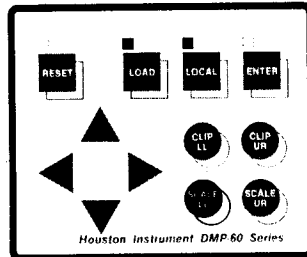
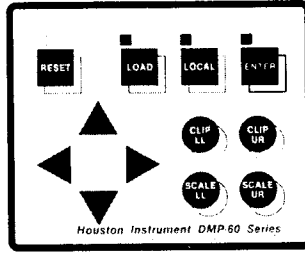
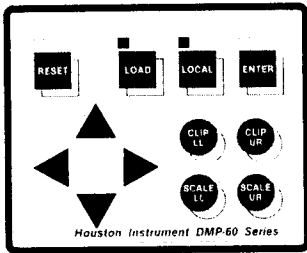
2.8.5 Mirror Image Plots

This section explains how to create a mirror image of a plot design.

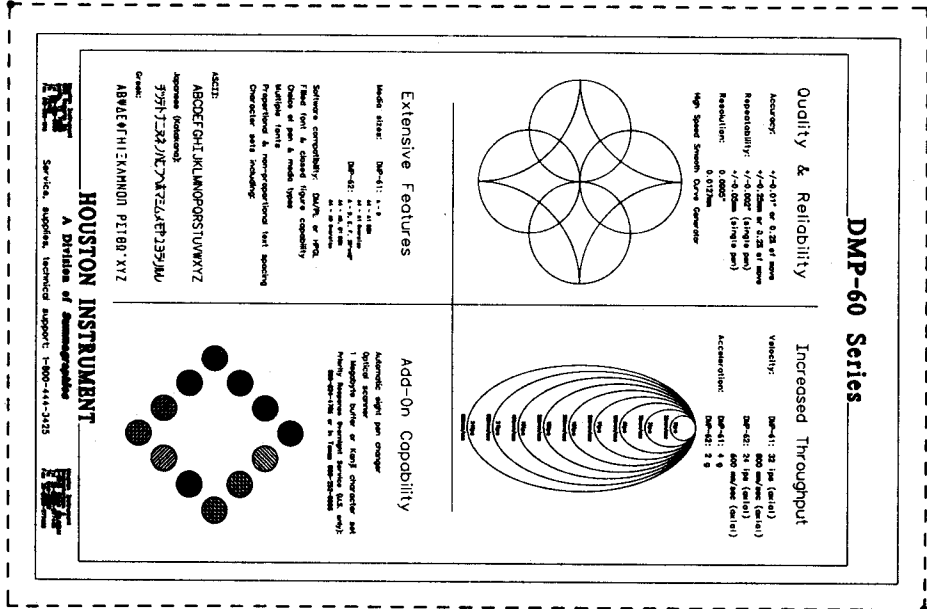
1. Insert a clean sheet of large chart media in the plotter and position it at the load position.
2. Press **RESET**. This causes the window and scale box limits that were set in the previous procedure to default to maximum page.
3. Press **LOCAL** for manual control of the plotter, and then initiate the customer confidence test routine by pressing **▲** and **▼** simultaneously. After the routine completes, press **LOCAL** again for manual control.
4. Use the **MANUAL MOVEMENT KEYS** to move the pen holder to the position of the upper right scale box marker illustrated in Figure 2-17. After the pen holder is positioned, specify this location as the upper right scale box point by pressing **ENTER**, and then **SCALE UR**.



Next, use the MANUAL MOVEMENT KEYS to move the pen holder to the position of the lower left scale box marker illustrated in Figure 2-17. After the pen holder is positioned, specify this location as the lower left scale box point by pressing ENTER, and then SCALE LL. Register the corner points by pressing the LOCAL key.



UR SCALE BOX MARKER



LL SCALE BOX MARKER

FIGURE 2-17. SCALE BOX MARKERS TO CREATE MIRROR IMAGE PLOTS

5. Insert a clean sheet of media of the same size at load position. Press the **LOAD** key to properly load the new sheet. After the plotter positions the chart, press the **LOCAL** key for local mode.
6. Initiate the customer confidence test routine by pressing the **▲** and the **▼** keys simultaneously. The resulting plot design will be a mirror image of the customer confidence test plot (see Figure 2-18).

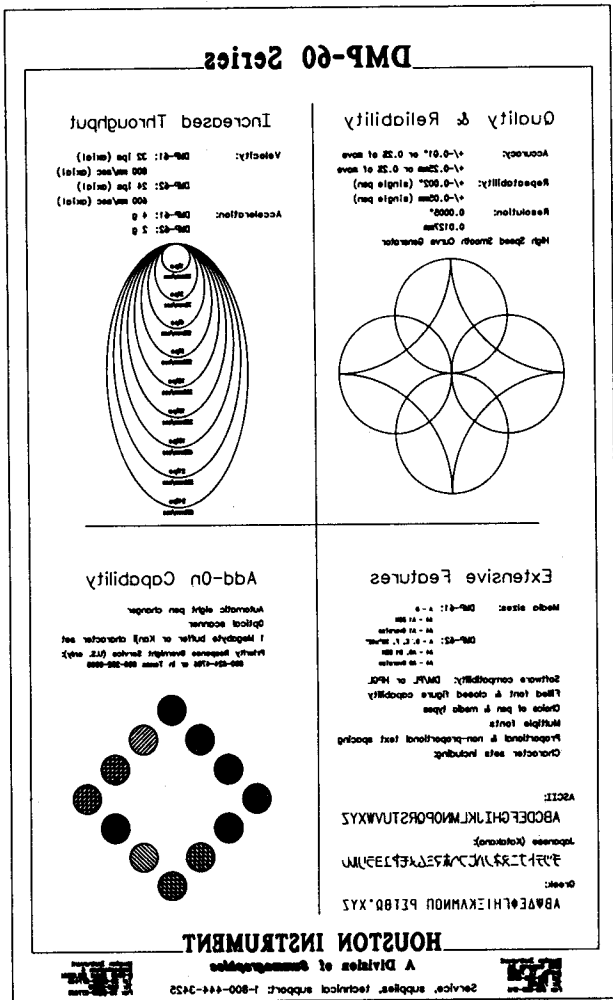


FIGURE 2-18.
MIRROR IMAGE OF THE CUSTOMER CONFIDENCE TEST PLOT

