

Configuring the Patch Panels on a Hybrid Power Splitter

The hybrid power splitter allows the operator to send transmitter power to either the antenna upper half only, or to the lower half only, or to the entire antenna. To accomplish this, it is necessary to provide the following alternative paths:

- From the main input to the hybrid power splitter input, AND from the power splitter 0° output to one antenna half, AND from the power splitter's -90° output to the other antenna half.
- From the main input directly to the antenna upper half
- From the main input directly to the antenna lower half

The patch panels provide these paths. There are three basic ways to configure the patch panels, shown here in figures 1, 2, and 3 respectively.

- Figure 1, at right, shows a typical configuration to be used to place the entire antenna in service. Transmitter power enters the unit at the four-way patch panel's main input and is directed to the hybrid power splitter's input. In the splitter, the power is divided and emerges in equal proportions at the 0° output and the -90° output. In the three-way patch panels, the power is directed to the antenna upper half and the antenna lower half.
- Figure 2, on the reverse, shows a typical configuration to be used to place only the antenna upper half in service. Transmitter power enters the unit at the four-way patch panel's main input and is directed straight to the three-way patch panel for the upper antenna half. The power splitter is not needed in this option.
- Figure 3, on the reverse, shows a typical configuration to be used to place only the antenna lower half in service. Transmitter power enters the unit at the four-way patch panel's main input and is directed straight to the three-way patch panel for the lower antenna half. The power splitter is not needed in this option.

NOTE

The three-way patch panels may not be located in the same positions relative to the four-way patch panel as shown here. Study the labeling on your unit to determine which patch panel is which.

The unused U-link is not shown in place in figures 2 and 3, but may be left in place on the patch panel.

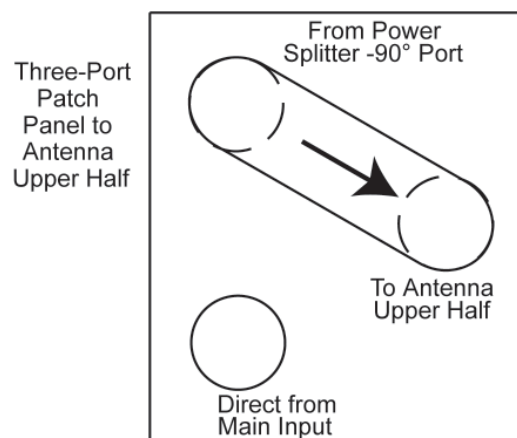
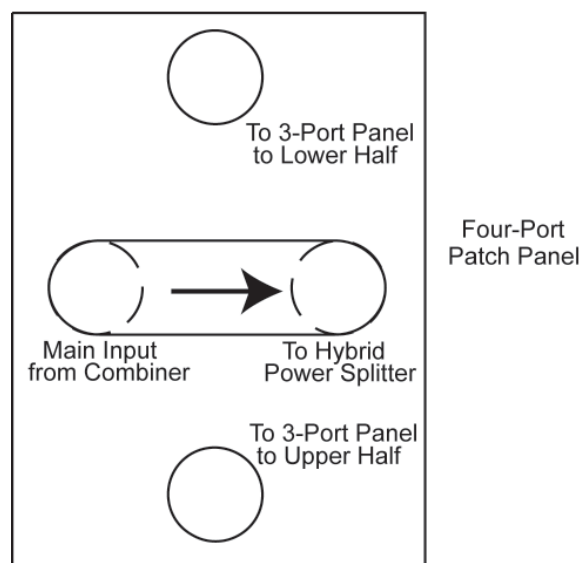
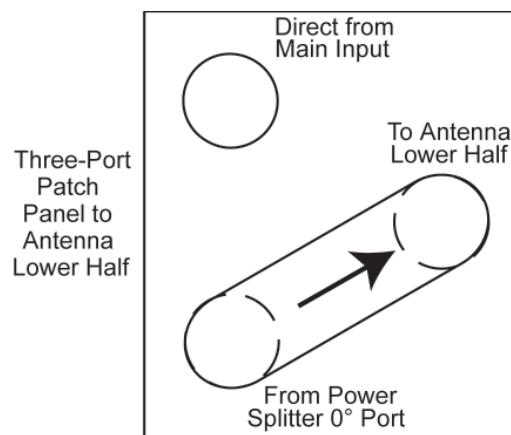


Figure 1. Typical Configuration for Use of Entire Antenna

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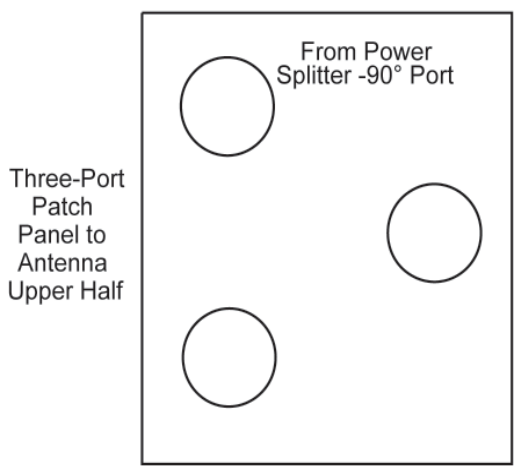
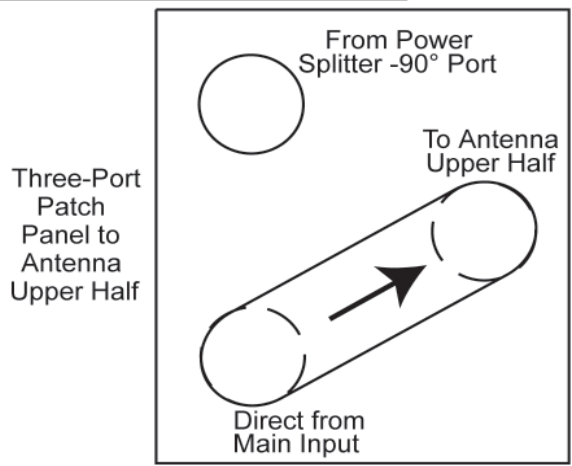
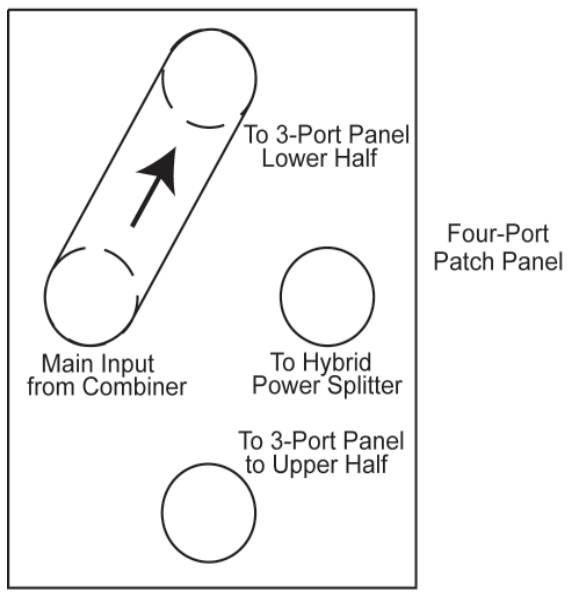
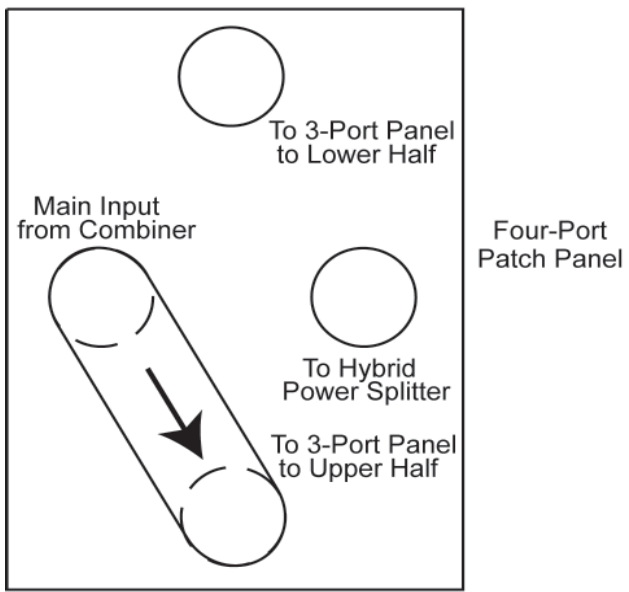
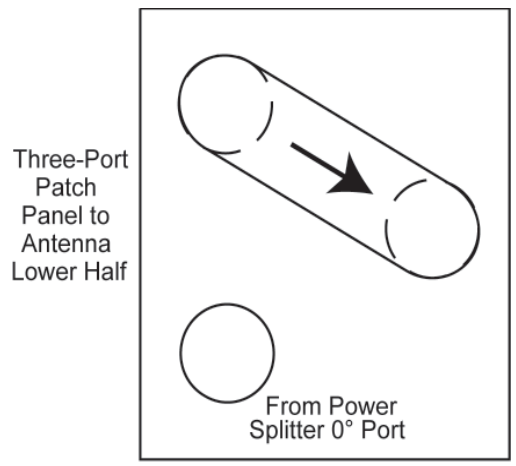
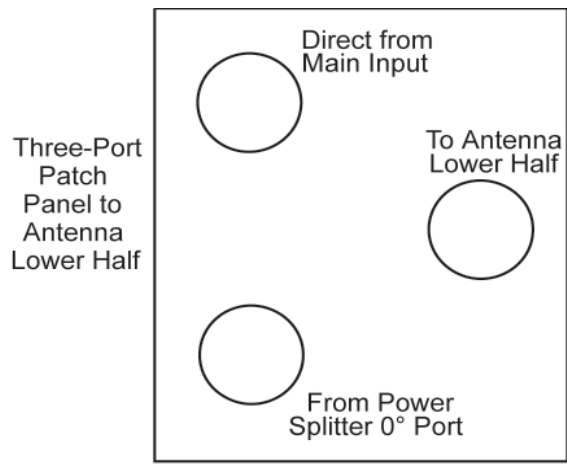


Figure 2. Typical Configuration for Use of Antenna Upper Half Only

Figure 3. Typical Configuration for Use of Antenna Lower Half Only