The 900 MHz Ultra*Max Phasing Kit is used to align multiple Ultra*Max systems to a precise AC line reference, thus avoiding system to system interaction. All Ultra*Max systems are synchronized to the Zero Crossing of their AC power source with some internal capabilities to phase shift from that reference. However, there are no system to system interconnections for precise synchronization of systems. The Ultra*Max Phasing Kit uses an AC powered, 900 MHz transmitter to send a synchronization signal to a battery powered 900 MHz receiver. The transmitter uses an internal Zero Crossing detector and phasing shifting capability to provide flexibility with existing systems. A microprocessor is used to generate a multi phase signal for use in multi phase power environments.

Once the transmitter is established, the receiver picks up the output reference signal which is used to compare and adjust near by systems. Comparison or adjustment is done by feeding the reference signal into a portable oscilloscope and comparing it to the signal output from a near by system. Near by systems are adjusted one at time until all system in the area are synchronized to the reference system.