M7 User Instructions - Brief

General
AC power enters through the front panel line cord. Filtered power is sent to the front panel Outlet (unless A is in Bypass Mode)

A
This switch selects to use certain of the filtering characteristics - Normal Mode, or to completely bypass all filtering - Bypass Mode.

B
This switch selects whether the M7 acts as a "parallel filter" - RxDNA Mode, or the M7 acts as a DNA Line Filter - Line Filter Mode. Any Dirty Electricity coming into the M7 on the line cord, will be filtered much more effectively in the Line Filter Mode.

C
The various DNA Line Filters have different internal components based upon the current level that they can carry. This switch selects whether the M7 is simulating a M100 or M200 filter - the M100/M200 Mode, or the M7 is simulating a M20 or M30 filter - the M20/M30 Mode.

D
This switch selects whether the M7 is in the standard frequency filtering characteristic - Standard Frequency Mode, or the low frequency filtering characteristic - the Low Frequency Mode.

E
This switch selects whether the M7 is in the RxDNA-V2 or the RxDNA-V2X mode.
A Typical Test Scenario

--- Connect M7 Line Cord to AC Line
--- Connect a 1 to 2 amp resistive load (heater or incandescent lamp) to the Outlet on the M7.
--- Connect Dirty Electricity (DE) measurement instrument(s) to the M7 Outlet.

--- Set A to Bypass Mode
--- Record baseline DE

--- Set A to Normal Mode
--- Set B to RxDNA Mode
--- Set E to RxDNA-V2 Mode
--- C (we don't care)
--- Set D to Standard Frequency
--- Record DE

--- Set A to Normal Mode
--- Set B to RxDNA Mode
--- Set E to RxDNA-V2X Mode
--- C (we don't care)
--- Set D to Standard Frequency
--- Record DE

--- Set A to Normal Mode
--- Set B to RxDNA Mode
--- Set E to RxDNA-V2 Mode
--- C (we don't care)
--- Set D to Low Frequency
--- Record DE

--- Set A to Normal Mode
--- Set B to Line Filter Mode
--- Set C to either M20/M3 or M100/M200 depending on what the final application will be.
--- Set D to Standard Frequency
--- E, don't care
--- Record DE

--- Set A to Normal Mode
--- Set B to Line Filter Mode
--- Set C to either M20/M3 or M100/M200 depending on what the final application will be.
--- Set D to Low Frequency
--- E, don't care
--- Record DE

NOTE: the A - E nomenclature has been added to the images for this document. Those nomenclatures are not on the actual physical M7 front panel.