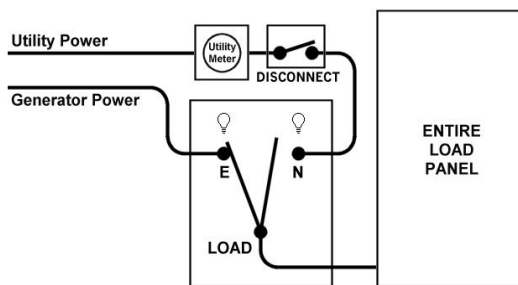


Manual Transfer Switch (MTS)

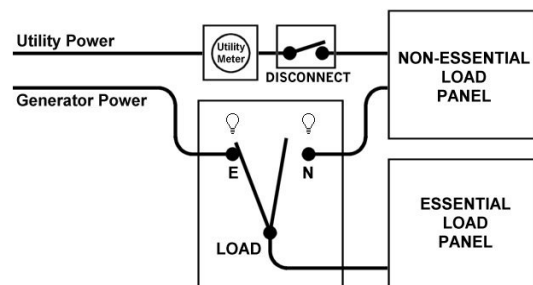
How it works: A Manual Transfer Switch is a device that allows a load to be connected to either of two power sources. When the utility power is lost the operator makes the necessary connections and starts the generator. The operator then switches the MTS to the emergency position; this provides emergency power to the load. Once the utility power is restored the operator switches the MTS back to the utility position, restoring utility power to the load. The operator then turns off the generator.

Safety: When connecting your PTO generator to the electrical service it is very important that a MTS be used. The MTS allows you to isolate the two power sources; the power company and your PTO generator. Failure to use a MTS will allow the generator and utility to be connected to each other which could cause injury or death to the operator or someone working on the power line. It could also destroy your generator and will void the generator warranty.

Entire Load Switching VS. Essential Load Switching



Entire Load Switching



Essential Load Switching

If your generator is rated to handle the **full** load you should connect your generator using the “Entire Load Switching” schematic. Using this connection will allow all loads to be operational when the switch is connected to either utility or emergency power. If your generator is not rated to carry the full load you should connect your generator using the “Essential Load Switching” schematic. Using this connection will only allow the essential loads to be operational when connected to the generator, keeping the load within the generators rated capacity. The drawback with this is that you cannot run anything that is on the non-essential load panel until utility power is restored. When utility power is available all circuits are operational. If your generator is not rated to carry the full

load and you connect it using the “Entire Load Switching” schematic, you run the risk of overloading and damaging your generator.

