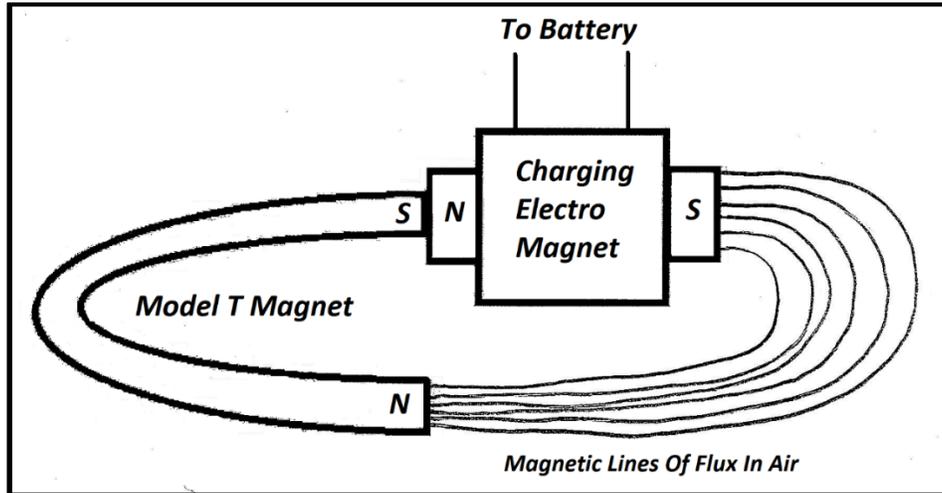
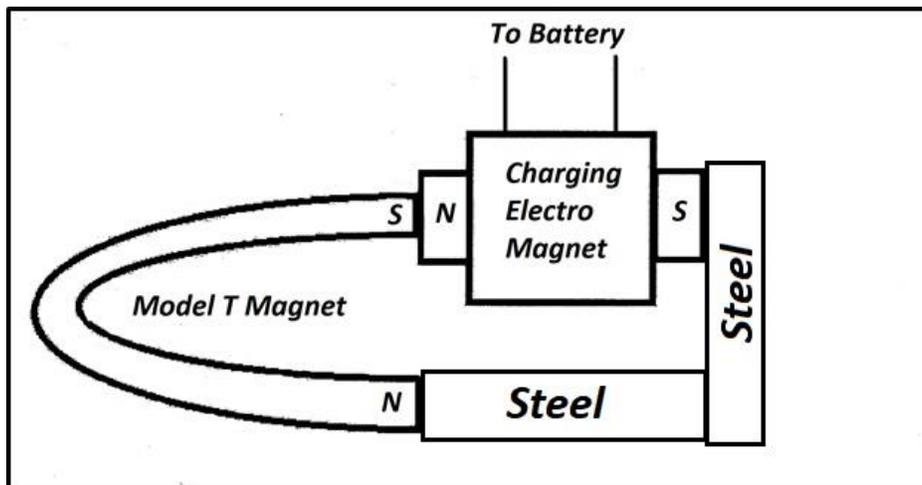


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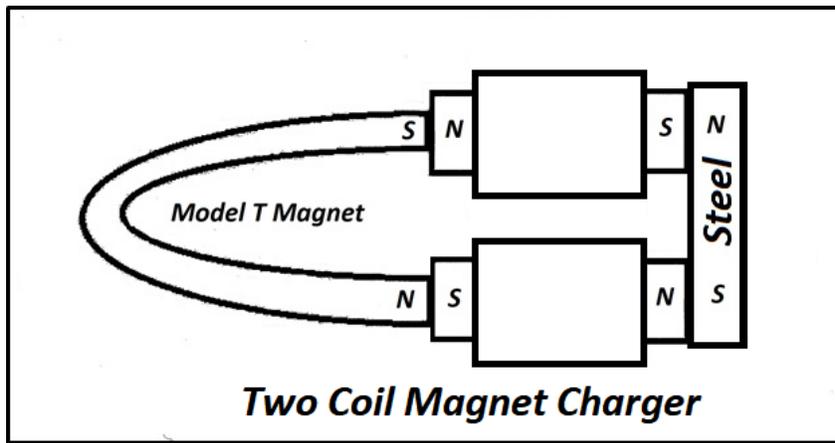
- Bar type magnet chargers can do the job of re-magnetizing a flywheel magnet.
- The efficiency of these type of magnet chargers can be improved by completing the magnetic circuit with a better magnetic conductor.
- Magnetic flux flows in a similar manor to electricity.
- It flows through magnetic conductors from the North Pole to the South Pole and is affected by conductor resistance.
- In the sketch below the magnetic flux flows from the Charging Electro Magnet into the flywheel magnet then out of the flywheel magnet through air back to the bar magnetizer completing the magnetic circuit.



- Carbon steel is a good conductor of magnetic flux.
- Air is a poor conductor of magnetic flux.
- Materials have a magnetic property called permeability.
- It is a measure of its ability to conduct magnetic flux
- Air has a permeability of about 1.0
- Carbon steel has a permeability of about 100
- Carbon Steel is a 100 times better conductor of magnetism.
- Air is like a big resistor to magnetic flux.
- Below is a magnet recharger I made by re-shaping a flywheel magnet and winding a coil on it.
- It makes a complete magnetic circuit through steel.
- Completing the magnetic circuit improves the efficiency of Model T magnet recharging.



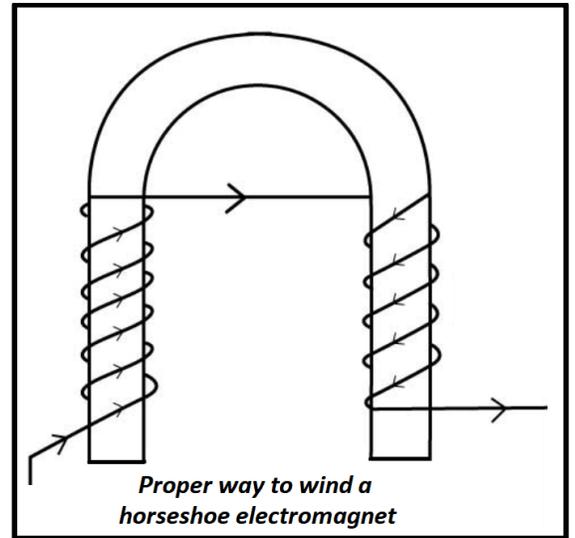
Improved Bar Type Magnet – Magnetic Flux Flows Through Steel



Two Coil Arrangement



Reshaped Flywheel Magnet



Recharging Coil