Electrical

Taylor Jean-Jacques and Neil Slighton
Alternator

a two-part electricity generator

a large magnet called the rotor and a series of wire coils called the stator.

generates AC to charge the battery and power the bike's electrical units
What we did

Ground the case down
Rectifier

Converts the AC current into DC current

Four semiconductor diodes, which are one way valves for electrical current
Spark Plug and Ignition Coil

Ignites the vaporized fuel in the piston chamber

Coil ratio steps up the voltage to cause a spark
Distributor

routes high voltage from the ignition coil to the spark plugs at the top of the piston's compression stroke

The cam spins and pushes the cam lobe, and the cam lobe opens the contact points

Capacitor: collects charge to the points from arcing
What we did
Headlamp & Horn

Took apart, cleaned and tested
Switch

Turns the electrical system on and off

The central hub
What we did
Wiring Harness