

Goes to one end of alternator rotor.

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Goes to the other end of the alternator rotor, and it may also go to bike ground through the case of the regulator.

Description:

Correctly adjusted, the voltage on the pot wiper is slightly less than half D+ (appx. $0.47 \cdot D+$) and Q1 will conduct if $(D+) - (V_p) > 6.2 + 0.7 + 0.7$, or $0.53 \cdot (D+) > 7.6V$, $(D+) > 14.3V$. If D+ is lower than 13.7V, Q1 will not conduct, Q2 will get driven via R5, and Q3 will conduct. Df will carry a voltage. When D+ rises, Q1 will start conducting, Q2 will get pinched gradually, and so will Q3. Voltage on Df will drop.

This was originally investigated by [Matt Bennett](mailto:mjb@hazmat.com), mjb@hazmat.com, but the diagram, functional description, and many corrections were done by Rik Steenwinkel, rsteenw@ibm.net or rik@apd.dec.com.

Revised on 10/3/95 by Matt Bennett