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## CHARGING SYSTEM 12-2

1997 F-250 HD/350 SUPER DUTY

**DIESEL**

With voltage applied, the generator is activated allowing current to flow from sense A circuit to generator field coil. The generator generates an AC output which is converted to a DC output by a rectifier assembly internal to generator, and is supplied to vehicle through the B+ terminal. S (stator) circuit is used to feed back a voltage signal from generator to the regulator. This voltage (typically half battery voltage), is used by regulator to turn off the indicator lamp.

**RIGHT BATTERY** (Terminal: BK)

**LEFT BATTERY** (Terminal: BK)

**STARTER MOTOR RELAY** (Terminal: G, R, A, V)

**FUSE LINK** (Terminal: 12 GA)

**IGNITION SWITCH** (Terminal: 12V START OR RUN, 16, 12V, 30, CHMS, 14, 904)

**INSTRUMENT CLUSTER** (Terminal: 14, 904)

**CHARGE INDICATOR** (Terminal: 14, 904)

**GENERATOR/VOLTAGE REGULATOR** (Terminal: 36, 12V, 11V B OR R, 4, 904, 12V)

**RECTIFIER** (Terminal: B+, 36)

**REGULATOR** (Terminal: 36, 12V, 11V B OR R, 4, 904, 12V)

**SENSING AND SWITCHING CIRCUITS** (Terminal: 36, 12V, 11V B OR R, 4, 904, 12V)

**GROUNDING POINTS:** G106 (ENGINE), G101 (BODY), G100 (BODY), G107 (ENGINE)

**WIRE COLORS:** BK, R, W/BK, LG/R, Y/W, 11V-B-DI

**TERMINALS:** 12 GA, G, R, A, V, 38, 12V, C1063, 36, C165, 5V, W/BK, 11V B OR R, C1029, 4, 904, LG/R, 12V, C108M, C108F, 11V-B-DI

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