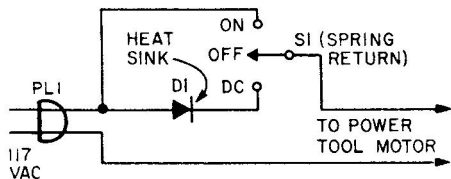


37 Dynamic Brake

NEW 1972

Give it a shot of direct current, and any AC power tool motor will instantly stop. No more free-running power saws or drills with the Dynamic Brake. The unit must be assembled in a metal enclosure as the enclosure provides the heat sink for silicon rectifier D1. This diode has only one solder terminal, the case is the second terminal. Place a single strip of plastic electrical tape on the bottom of SR1's case, thoroughly coat SR1's case with epoxy adhesive and cement SR1 to the enclosure (heat sink). When the adhesive is dry solder one con-



necting wire directly to SR1's case, the remaining wire connects to the terminal. Polarity is not important; any wire can go to any SR1 terminal.

Switch S1 is a center-off, one side spring return. With S1 on, AC will be fed to the motor and the motor will run. To brake the motor, simply press S1 down and a quick shot of DC will instantly stop it. The switch returns to the center off position when released. This Dynamic Brake can only be used with AC motors; it will not brake universal (AC-DC) motors.

PARTS LIST FOR DYNAMIC BRAKE

PL1—AC plug

SR1—Silicon rectifier, 200 PIV, 20 A.
(General Electric IN3210, A40B)

S1—SPDT switch. Center off, one side
spring return

Misc—Metal cabinet