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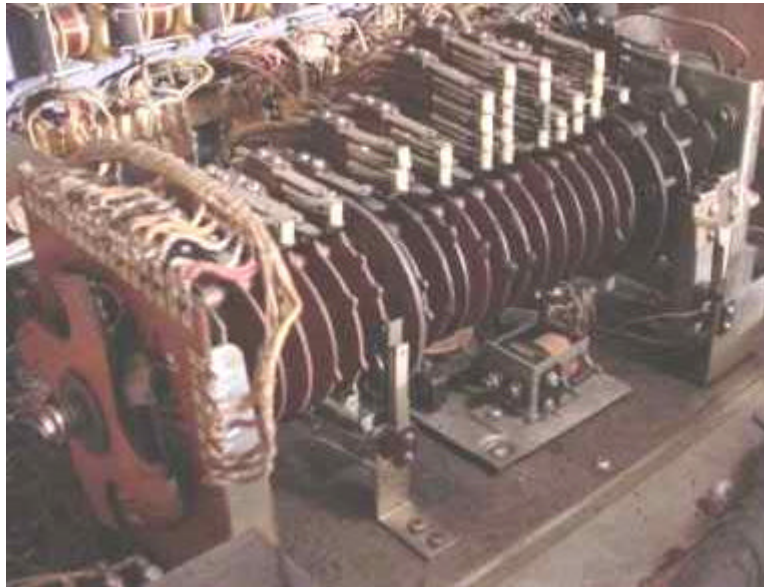
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Inside Your Bingo Control Unit



control unit

The heart of all bingo mechanisms is the control unit. This is a large motorized unit containing many groups of cam-operated switches and a large contact disk with rotating wipers at one end. This unit provides all basic timing functions to the game circuitry, as well as implementing the search for winning combinations. The unit is mounted horizontally on a shelf inside the backbox. A pictorial view of a typical unit is shown in the accompanying illustration.

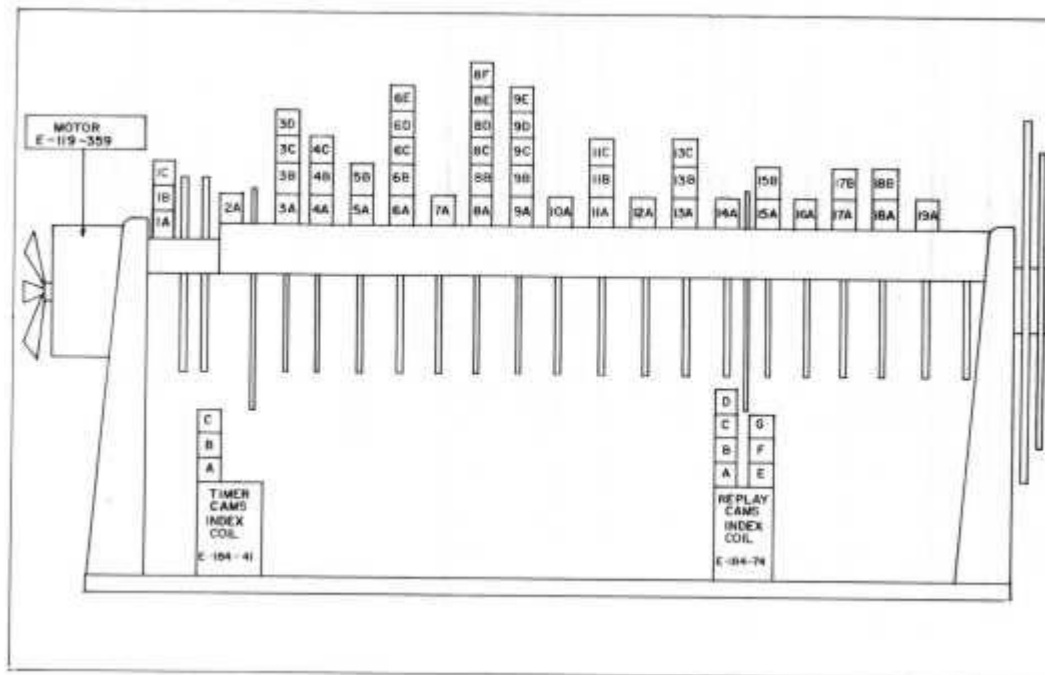
The unit contains a motor, which continually operates, turning a shaft that extends the length of the unit. Attached to this shaft are many cams which operate sets of switches. These cams are divided into groups, each of which (except for cam number 1) are clutch driven. The clutches are released, and thus the set of cams allowed to rotate, by the operation of solenoid coils called cam index coils.

Cam number one rotates all the time and provides basic timing pulses to the game's circuitry. Cams number 2 through number 9 are referred to as timer cams and rotate for one revolution each time a coin is deposited or replay played off. The switches operated by these cams provide timing and control pulses, and signals required during feature selection and extra ball feature attempts. These cams, and their associated switches, are set into motion each time the timer cam's index coil, mounted directly beneath them, is energized. They then make one revolution and

stop.

Cams number 10 through number 14 are called the replay cams and operate only during payout (awarding of replays). The switches operated by these cams provide all timing for the payout operation and are set into motion by the energizing of the replay cam's index coil. That solenoid is kept energized until the proper number of replays have been scored and thus these cams continue to operate during replay scoring. The adjustment of the switches associated with cam number 13 are critical to proper scoring of replays.

CONTROL UNIT PICTORIAL VIEW NUMBERS CORRESPOND TO SWITCH CHART ON PAGE



control unit diagram

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