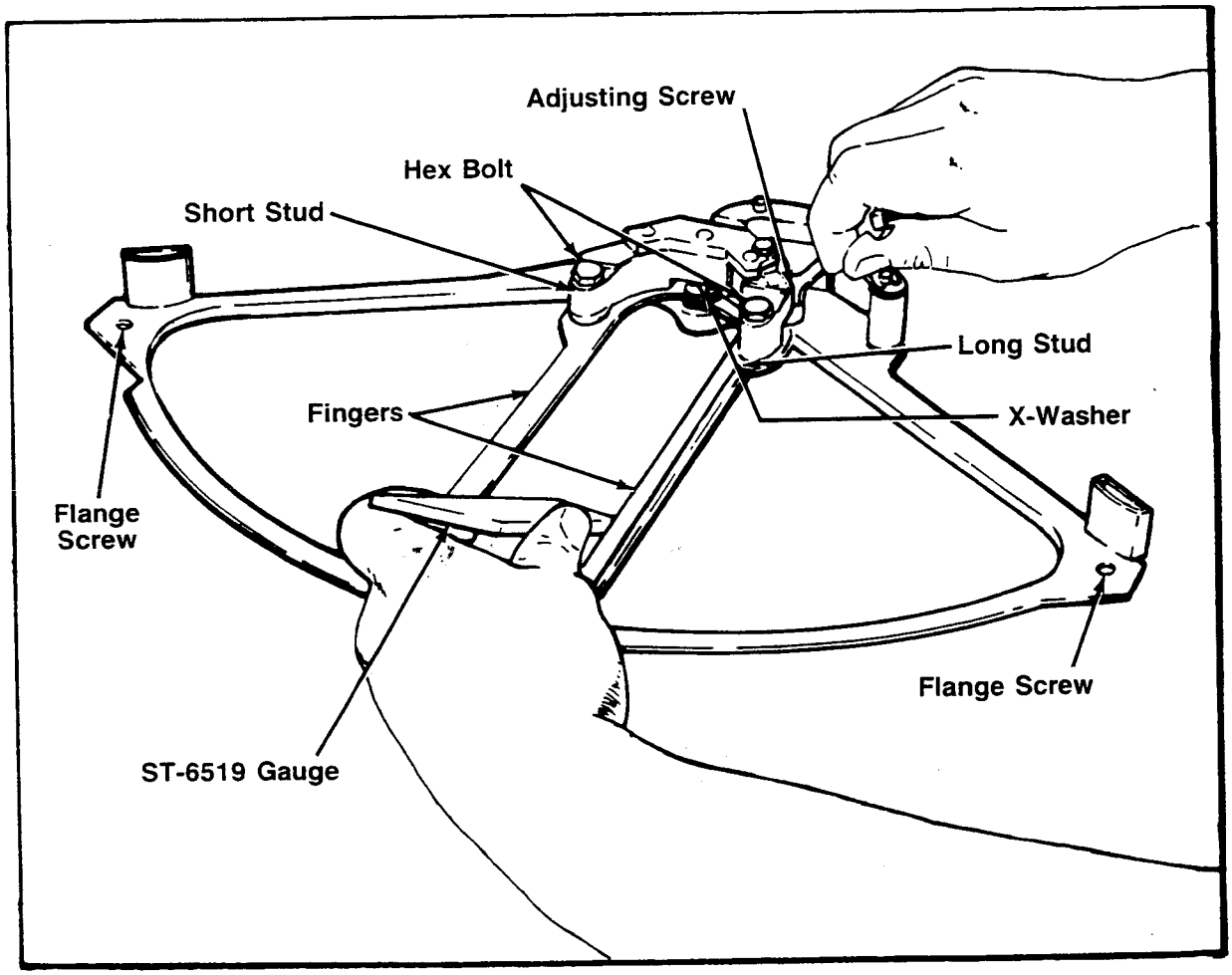
RESPOT CELLS AND ADJUSTMENTS OPERATION

When the table lowers to pick up pins as in first ball cycle, the fingers close on the standing pins, lock, and raise the pins high enough for the sweep to clear the lane of dead wood. The table then respots the pins. Adjustment of fingers must be 2″—see page 5.21. If the adjustment is less than this dimension, the finger assembly will not lock. If this dimension is greater than specified, the pin may slip through the fingers causing a malfunction.

The opening and closing of the cells is accomplished by means of the shifter link and pawl—see page 5.25. The shifter link is controlled by the respot tie rod and a cam attached to the table motor drive shaft.



RESPOT CELLS REMOVAL

1. The respot cell assembly may be removed from the table by removing the four flange screws, the carburetor type linkage, and the wire from the gripper switch.
2. Each finger can be replaced by removing the hex bolt and X-washer located at the pivot point. (Finger can be replaced when respot cell is mounted in the table.) When replacing fingers, the rear finger should be put over pivot point bushing first.

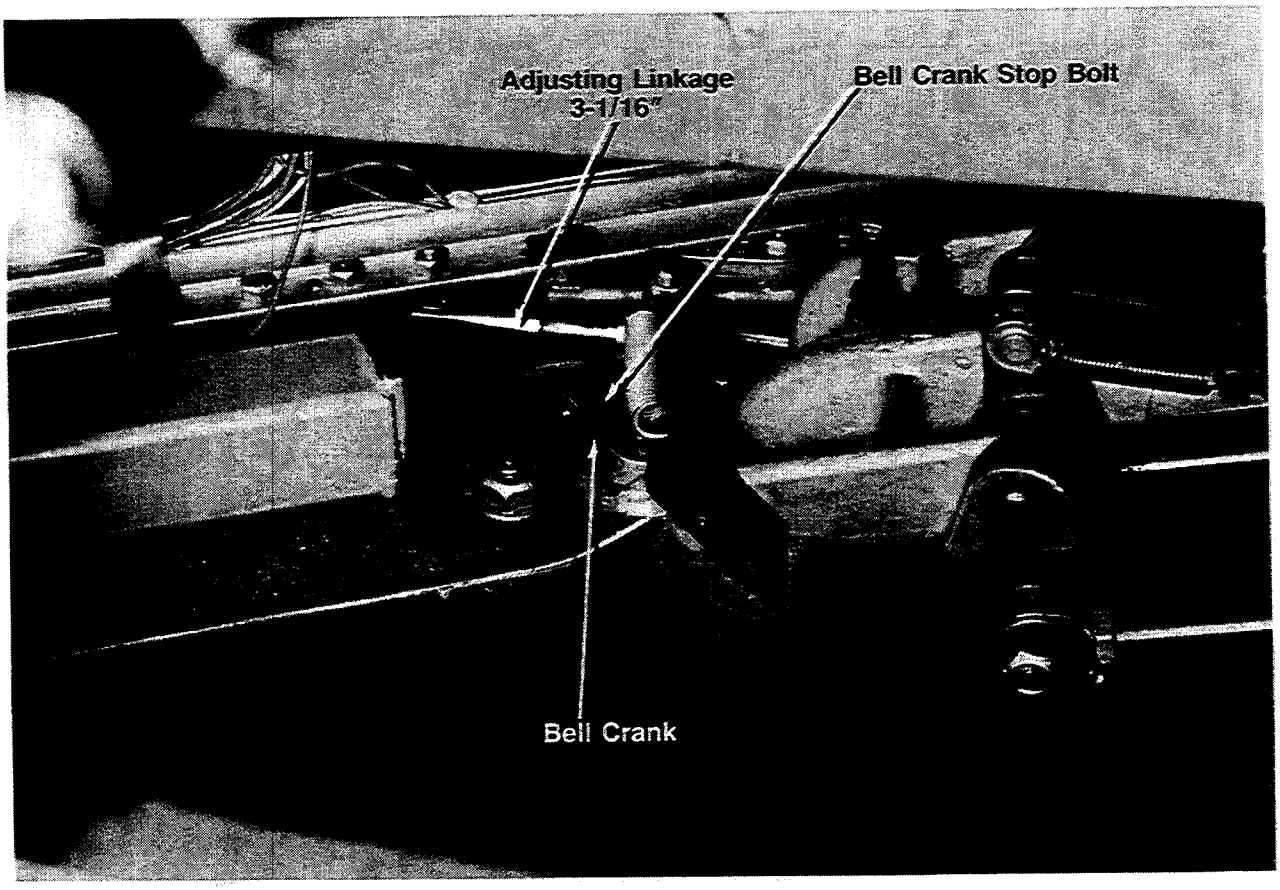
ADJUSTMENT—FOR EITHER DIE CAST FINGERS OR STEEL FINGERS

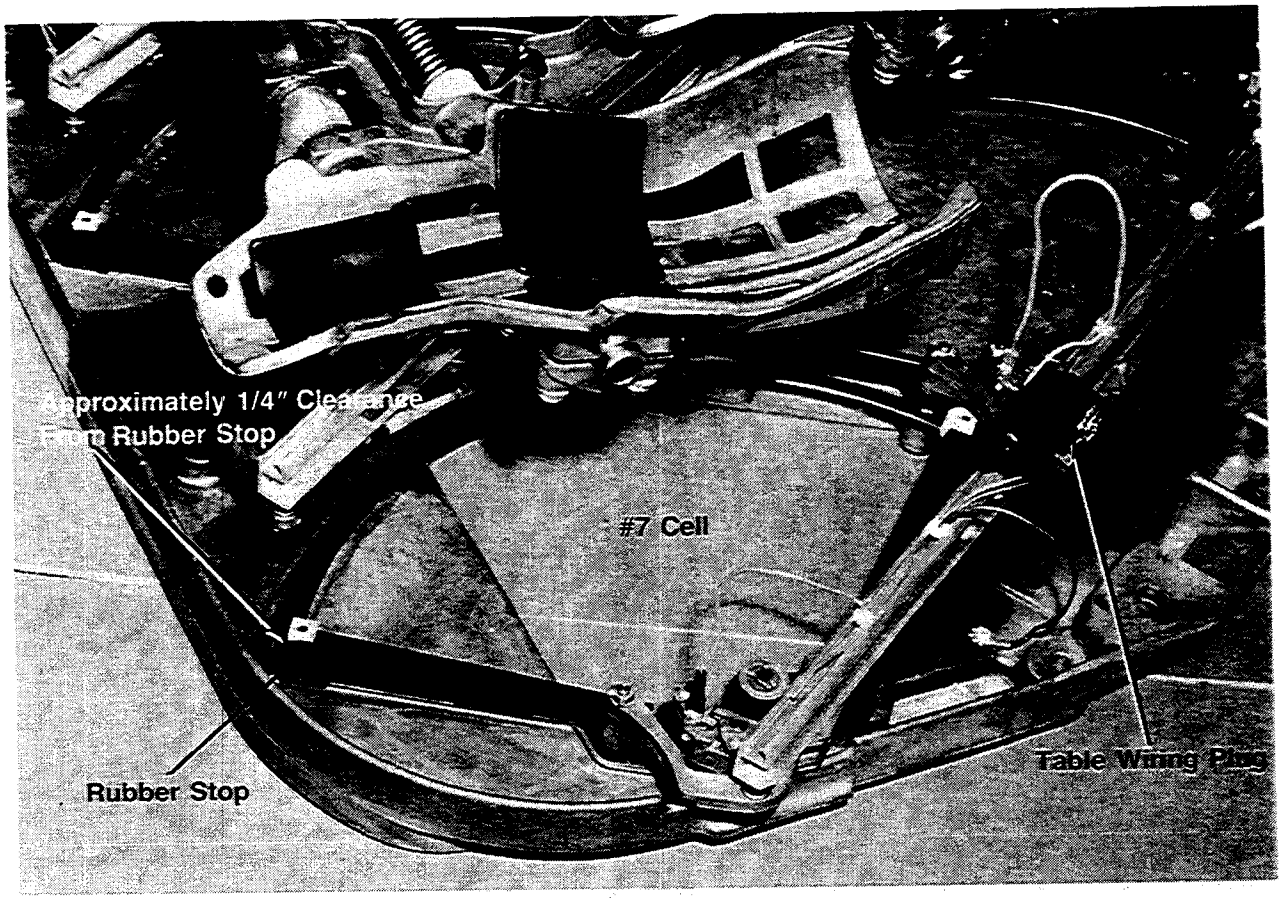
1. Move respot cell linkage to close cells as in respot condition. Using 1/4″ open end wrench and ST-6519 gauge, adjust for a 2″ width between fingers with spring at gripper switch compressed.

NOTE: This adjustment can be made with the respot cell in or out of the table.

RESPOT CELL BELL CRANK

To prevent binding and breakage of respot cells upon opening, a stop bolt, called the bell crank stop bolt, is provided. See picture below. This bolt takes the load from the fingers.





RESPOT CELL ADJUSTMENTS

NOTE—VERY IMPORTANT: The following pages of respot cell adjustments must be made in the sequence given.

1. Move respot linkage to close cells. Disconnect carburetor type linkage to all cells (number 7 cell is fixed). Make adjustment for 2" as described on page 5.21. Do not reconnect yet.
2. Adjust carburetor type drive linkage at bell crank to 3-1/16". See Note below.
3. Open #7 cell and adjust bell crank stop to obtain approximately 1/4" clearance from the rear finger to the rubber stop while holding the front finger against the stop.
4. Adjust and reconnect the connecting linkage of the remaining nine cells, one at a time, to obtain approximately 1/4" clearance from the rear finger to the rubber stop. Shifter cam link should be pulled up and held (as indicated in photo on page 5.24) while making and checking this adjustment. Open and close the respot cells after each cell is adjusted to see if adjustment holds.

NOTE: If there is a fixed drive link at the bell crank, there will be an adjustable link at the #7 cell. Adjust to 6-7/16".

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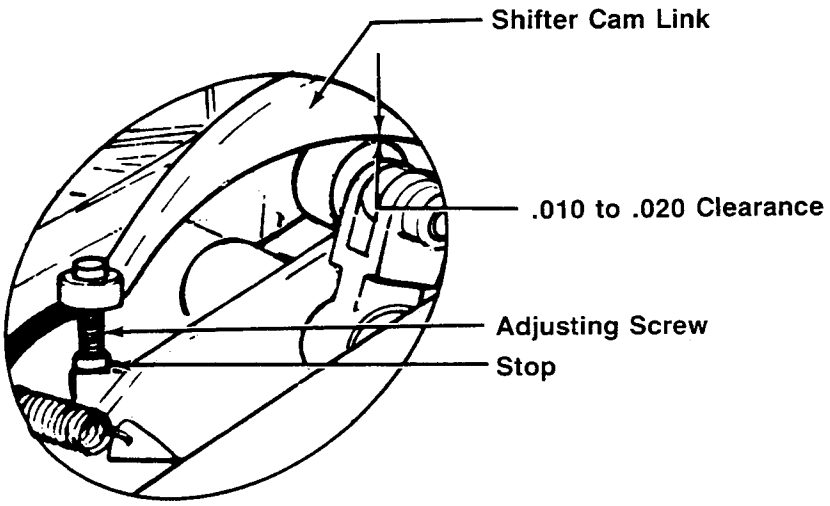

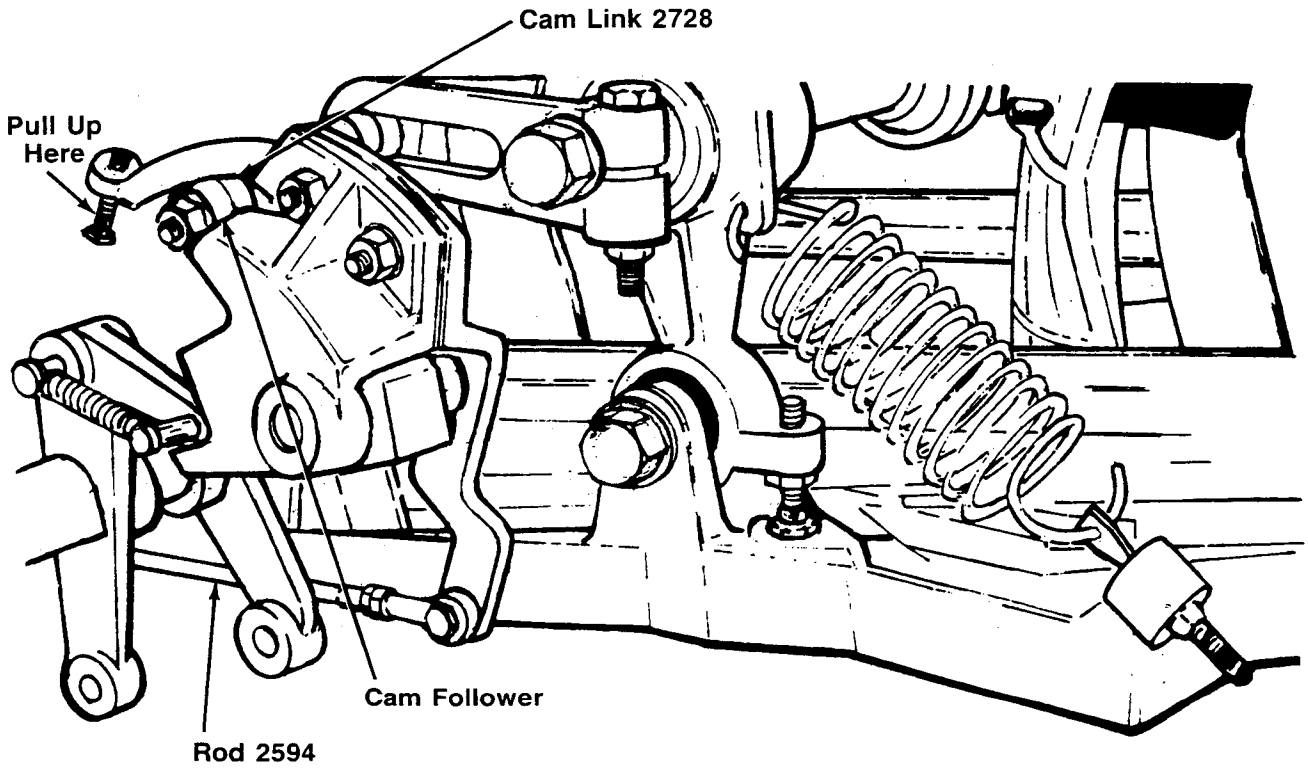

RESPOT CELL ADJUSTMENTS—Continued

5. Slowly crank table into spotting action while checking clearance between the cam follower and the surface of the #2728 cam link. (If the clearance is such that the cam follower is difficult to turn, shorten #2594 control rod before cranking table any further down. Failure to do so will cause #2594 rod to bend as table is cranked down.) Stop table at 180° position.
6. Adjust #2594 control rod assembly so there is .010″ to .020″ clearance between the cam follower and the surface of the #2728 cam link. Pull up at end of cam link (see above picture) when checking clearance.
7. Crank table to 355° position. Close respot cells and adjust stop screw on end of shifter cam link to just clear the stop. From this point, **lengthen** screw stop about 4 turns to prevent force from being applied to the respot cell fingers, yet to allow respot cells to lock on pins.

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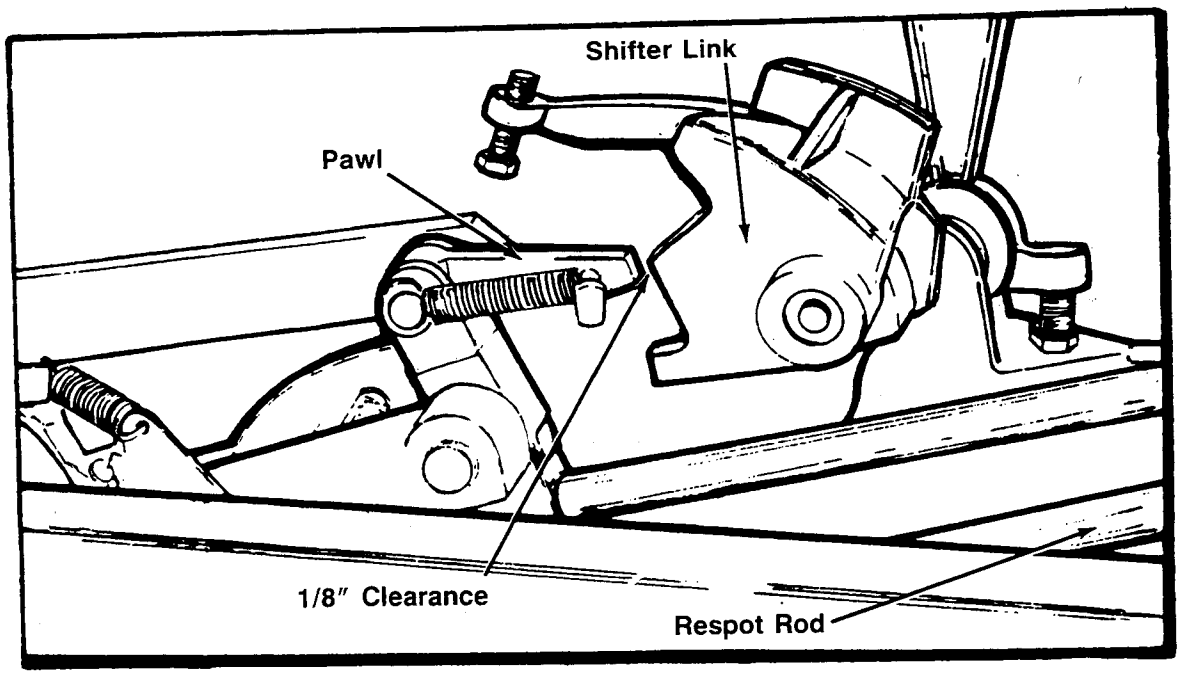
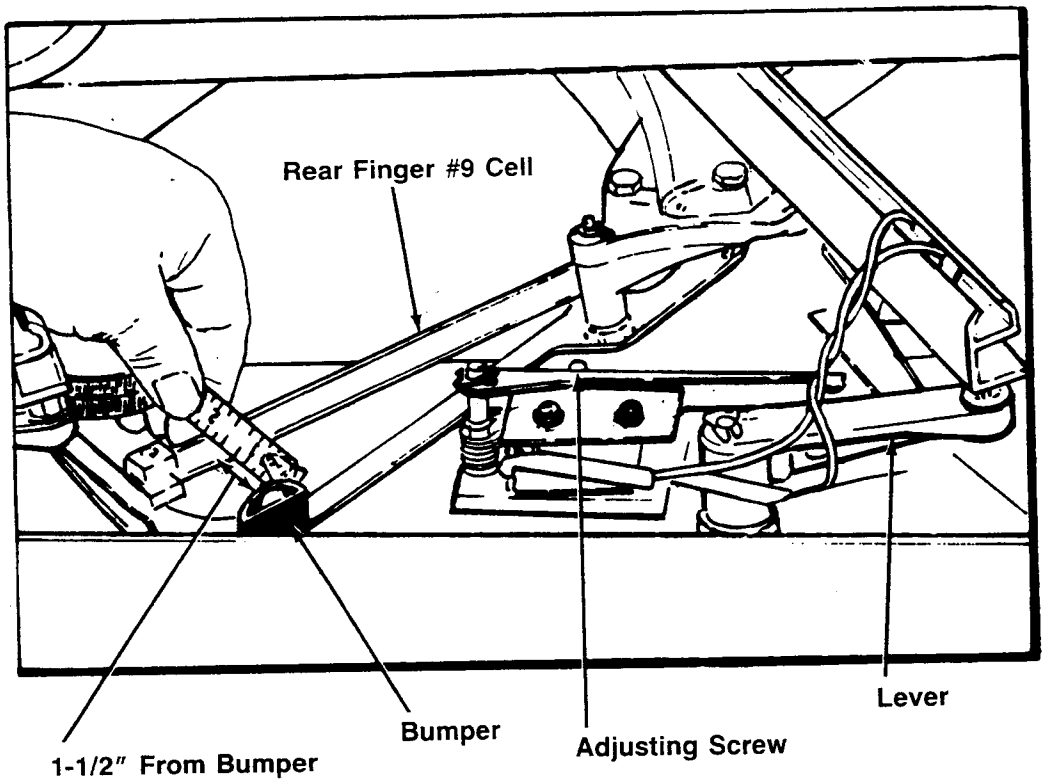


RESPOT CELL ADJUSTMENTS—Continued

8. Close respot cells slightly so that the center high point of shifter cam link, Part #2724, is directly opposite the pawl, Part #2590. (See photo above.) Adjust the respot rod so that the pawl clears the center high point of the shifter cam link by 1/8".
9. Run table through several respot operations. Fingers should open and close smoothly and without binds. Recheck previous steps if necessary. If fingers do not lock on pins, a tight cell is indicated. Inspect all cells and adjust accordingly. See note below.
10. Check respot cell protection switch adjustment. See page 5.26.

NOTE: To avoid damage to the fingers on initial running of table, use only one pin until smooth operation is achieved; then test with complete set of pins.



RESPOT CELL PROTECTION SWITCH

NOTE: The respot cell protection switch prevents the table from operating (feeling for pins) when the cells are not fully open.

ADJUSTMENT

1. With respot cells in open position, hold front finger of #9 cell to extreme forward position.
2. Move rear respot cell finger forward to a maximum of 1½" from the 2752 bumper. **Use cell linkage for movement. DO NOT PUSH FINGER.**
3. Loosen lock nut on switch lever and adjust screw until switch operates. Tighten lock nut.