# SETTING DISTANCE/SPEED

*Clockwise* rotation of the crank *increases* the spring tension thus increasing the speed of the target and the distance it travels.

*Counter clockwise* rotation of the crank *decreases* the spring tension. Continued counter-clockwise rotation will remove the tension from the crank and the spring tension lock-nut with hold. The elastic lock-nut holds the spring at the set minimum tension.

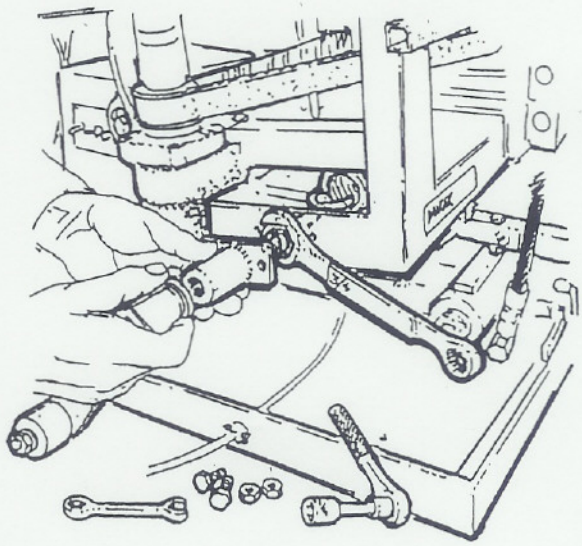
The standard minimum tension should be set so that the spring tension for a Singles target is as follows:

1. Remove the crank by rotating it counter clockwise
2. Remove the nylon washer
3. Remove the two (2) ¼" bolts from the stand off collar
4. Remove the stand off collar
5. See the elastic lock-nut. Use a ¾" wrench on this nut to adjust the distance/speed.
6. When proper/desired distance/speed is achieved, back off the elastic lock-nut three (3) turns.
7. Re-assemble the parts.
8. When the crank becomes snug, continue to turn three (3) more times for the proper setting.

Whenever a Singles distance is to be set, back off the crank to neutral, crank back to snug; then give another three (3) turns for proper setting.

NOTE: Singles are always set first, then follow the procedures for Doubles as outlined in that section.

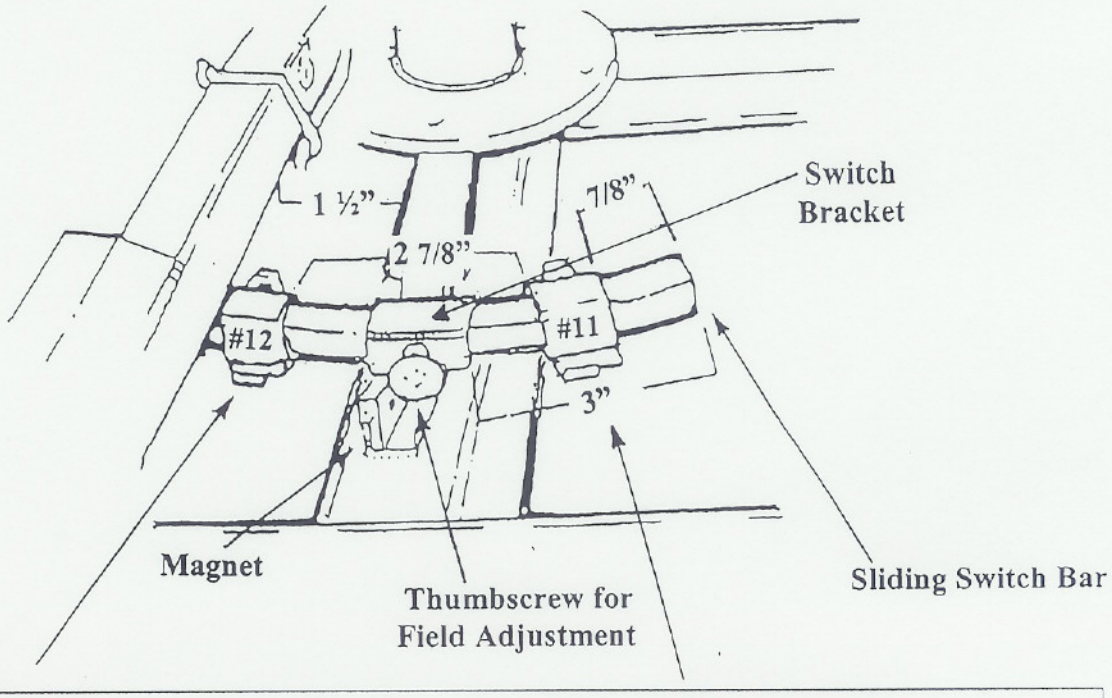
(Diagram 21)



# FIELD-ANGLE ADJUSTMENT
## Up to Serial #2739

**TO*

*LEFT* *SLIDE SWITCH BAR* *RIGHT*




| Left-Angle Limit<br>Proximity Switch #12<br>(N.O.) Red Wire | Loosen<br>Thumbscrew(s)<br>to Adjust | Right-Angle Limit<br>Proximity Switch #11<br>(N.C.) Black Wire |
|---|---|---|

## (Diagram 101)

The measurements in the above diagram are approximate for 2-hole targets. A 2-hole target is equal to 5 7/8" travel of the hydraulic cylinder (from left to right). The 2 7/8" spread between the switch holders allows for approximately 5 7/8" of total hydraulic cylinder travel --- which equals a 2-hole target. 6 7/8" of travel equals a 3-hole target.

**If the flight-paths of both the right and left targets are too far to the left, slide the switch bar to the right to move the targets to the right. 1/8" will make a significant difference.*

*IMPORTANT:* NEVER STAND IN FRONT OF A TRAP MACHINE. THE TRAP MACHINE MUST BE TURNED OFF AND THE SPRING RELEASED <u>BEFORE</u> ENTERING THE TRAP HOUSE. NEVER ATTEMPT TO MAKE ANY ADJUSTMENT WHEN THE THROW ARM IS COCKED.

# ADJUSTING HEIGHT OF TARGETS
## Up to Serial #2739

**Tilt the table by pushing *up* on the front of the machine. The elevation cog can be positioned up or down. See Diagram 22.**

# ANGLE ADJUSTMENTS

**STRAIGHT-AWAY TARGETS**

**Set the toggle switch to the manual position. Use the right and left buttons to achieve Straight-Away Targets. See Diagram 13**

**2-HOLE TARGETS**

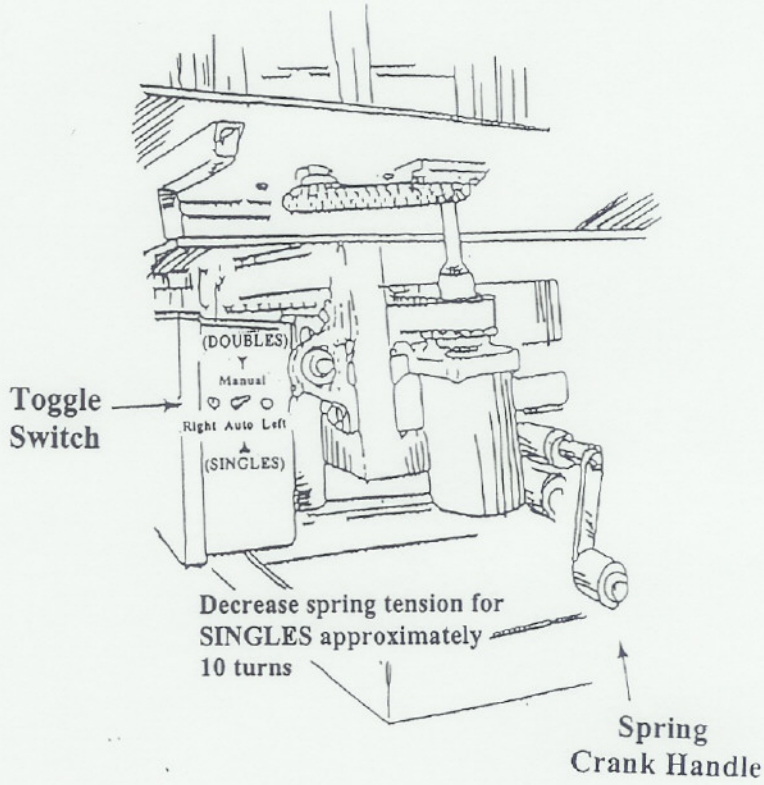
**The measurements in Diagram 66 are for 2-hole targets. The 2 7/8" approximate spread between the switch holders allows for 5 7/8" of total hydraulic cylinder travel --- which equals a 2-hole target. 6 7/8" of travel equals a 3-hole target.**

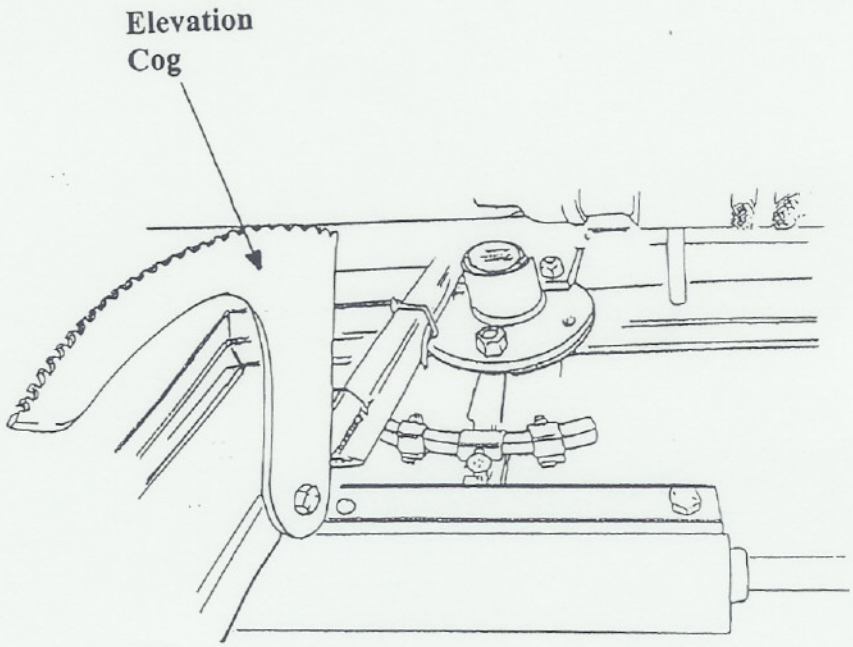
**Loosen the screws. Slide the angle switch toward the "magnet" to *decrease* the angle. Slide the angle switch away from the "magnet" to *increase* the angle. Re-tighten the screws to hold the switch in place. See Diagram 53**

**IMPORTANT: NEVER STAND IN FRONT OF A TRAP MACHINE. THE TRAP MACHINE MUST BE TURNED OFF AND THE SPRING RELEASED BEFORE ENTERING THE TRAP HOUSE. NEVER ATTEMPT TO MAKE ANY ADJUSTMENT WHEN THE THROW ARM IS COCKED.**

**IMPORTANT: *Never increase the limit switches beyond the travel path of the cylinder. This may cause the hydraulic cylinder to "bottom out" and damage the cylinder.***

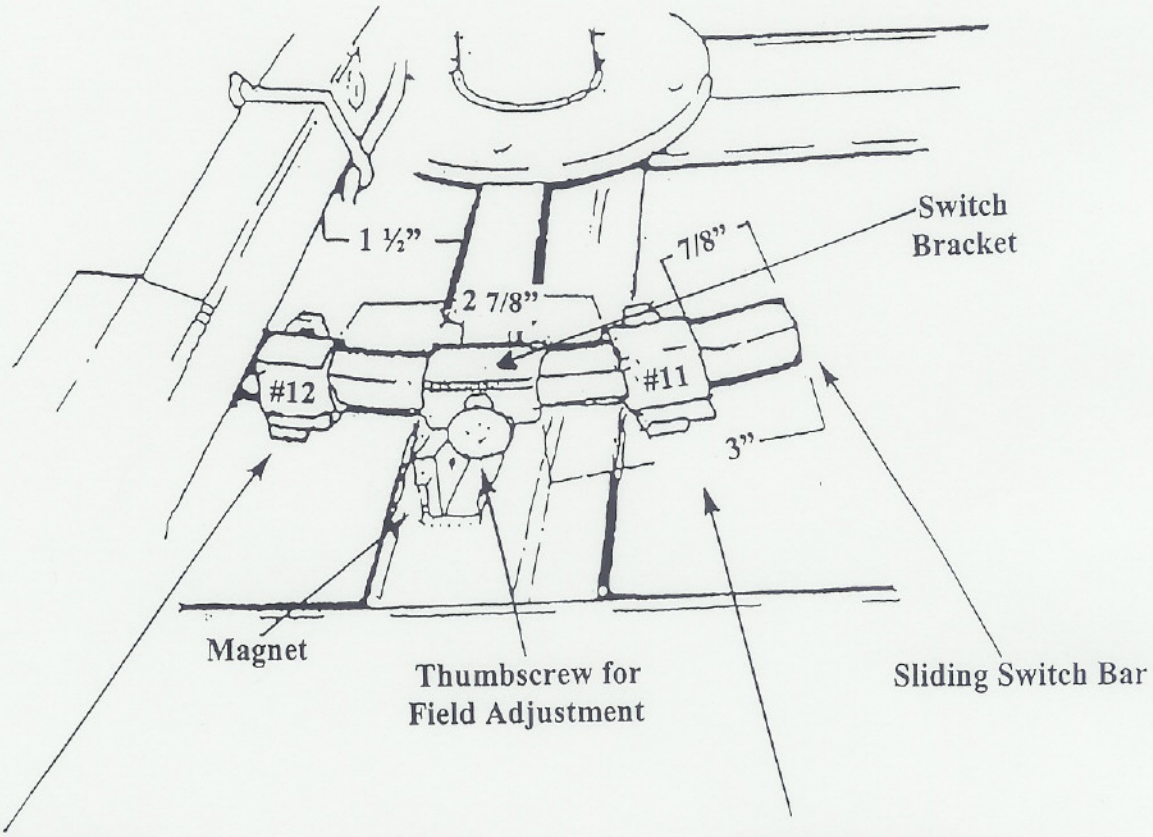
(Diagram 13)




(Diagram 22)

(Diagram 101)




Left-Angle Limit Proximity Switch #12 (N.O.) Red Wire

Loosen Thumbscrew(s) to Adjust

Right-Angle Limit Proximity Switch #11 (N.C.) Black Wire

# ADJUSTING HEIGHT OF TARGETS
## From Serial # 2740 ....

**IMPORTANT: NEVER STAND IN FRONT OF A TRAP MACHINE. THE TRAP MACHINE MUST BE TURNED OFF AND THE SPRING RELEASED BEFORE ENTERING THE TRAP HOUSE. NEVER ATTEMPT TO MAKE ANY ADJUSTMENT WHEN THE THROW ARM IS COCKED.**

**Tilt the table by pushing *up* on the front of the machine. The elevation cog can be positioned up or down. See Diagram 22.**

# ANGLE ADJUSTMENTS

### STRAIGHT-AWAY TARGETS

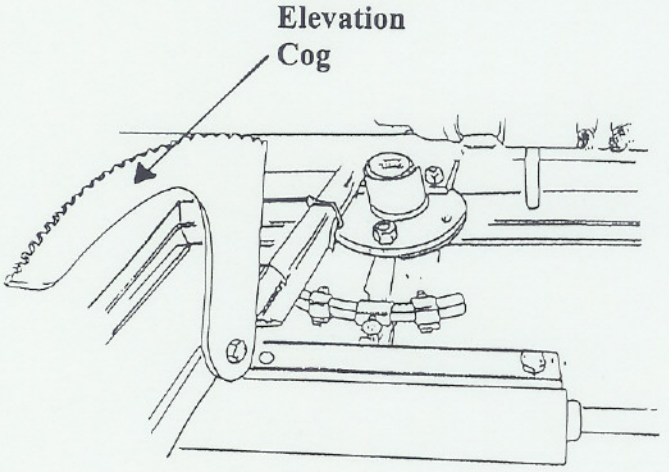
**Set the toggle switch to the manual position. Use the right and left buttons to achieve Straight-Away Targets. See Diagram 13**

### 2-HOLE TARGETS

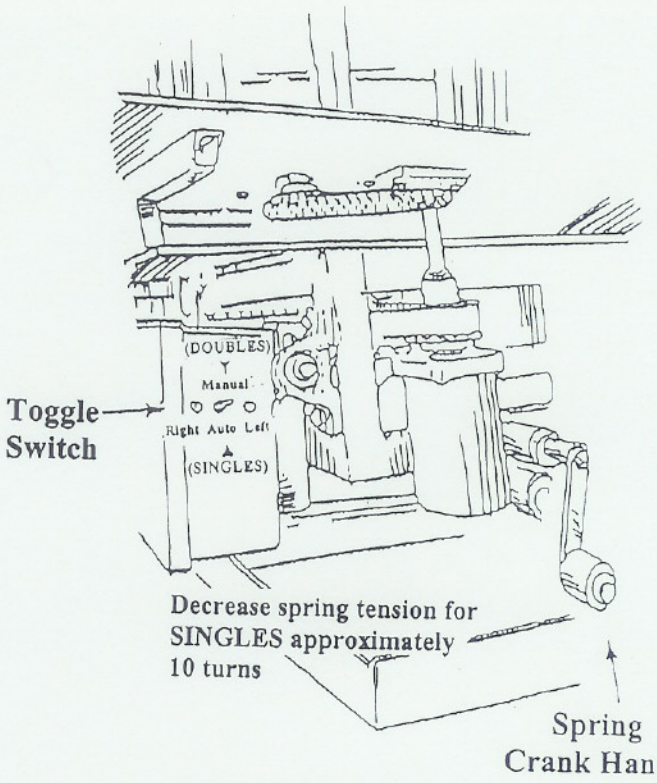
**The measurement in Diagram 91 is for 2-Hole Targets. The 4 ¼" spread between the switches allows for 5 7/8" of total cylinder rod travel --- which equals a 2-Hole Target. A 5 ¼" spread between the switches allows for 6 7/8" of total cylinder rod travel --- which equals a 3-Hole Target.**

### SHIFTING THE TARGET FIELD

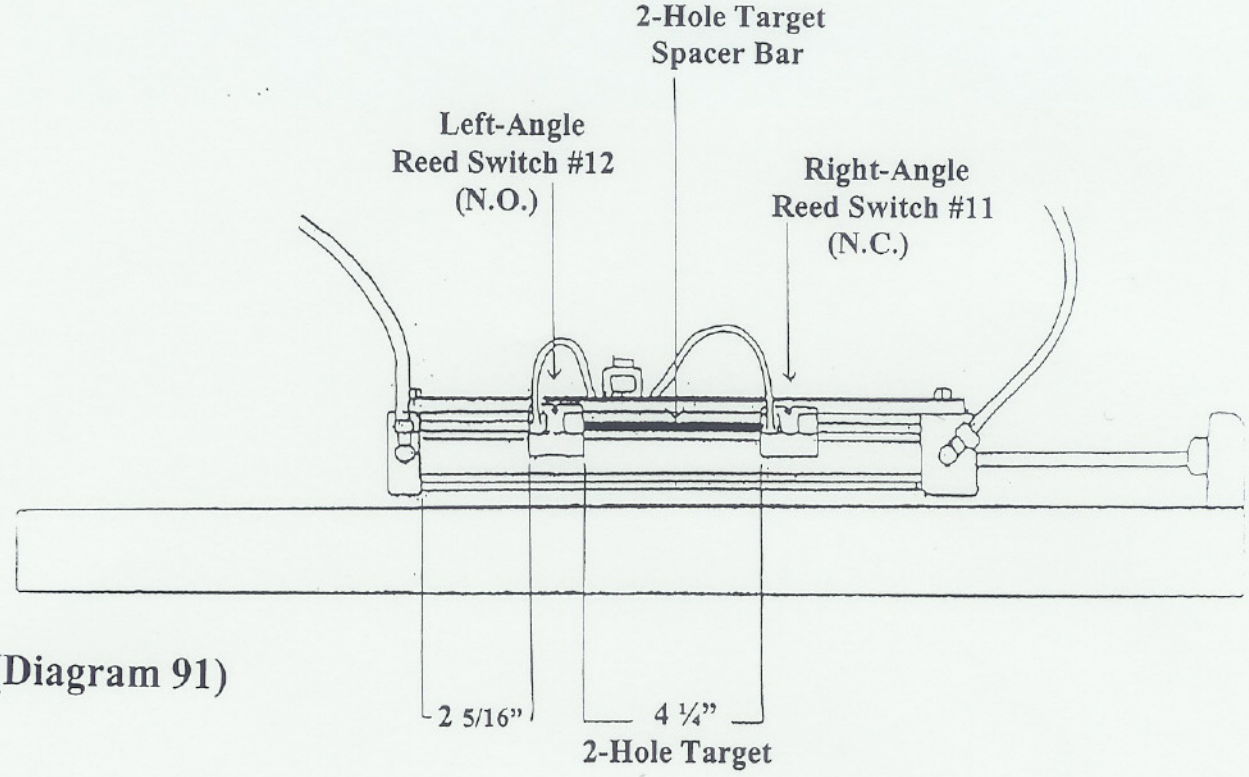
**The 9/64" hex head set screws on the limit switches are already pre-set. A spacer bar that is 4 ¼" long is provided for setting a 2-Hole target field width. The field can be adjusted by sliding the limit switches in the direction you want to move the the field; *TO MOVE THE FIELD TO THE RIGHT, SLIDE THE SWITCHES TO THE RIGHT AS YOUR ARE FACING THE MACHINE.* Use the spacer bar to maintain the proper field width. The set screws are lightly set so that you can slide the limit switches without adjusting the set screws.**




(Diagram 22)




(Diagram 13)




(Diagram 91)