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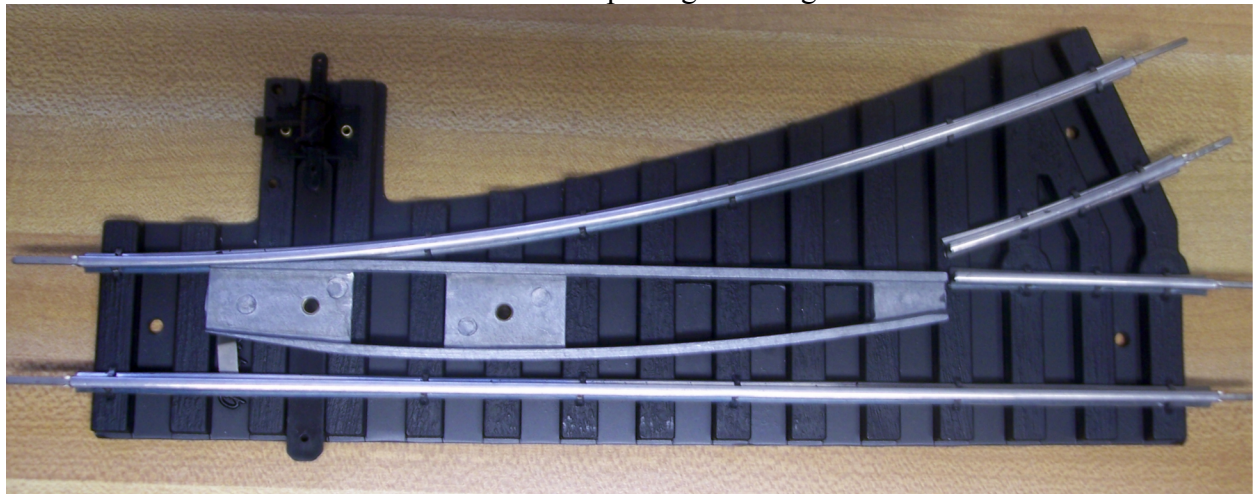
GarGraves Remote control conversion

GarGraves S gauge switch was redesigned in order to provide reliable operation. The redesign eliminated the open frog area of the switch which had proven problematic for engines with slide shoes and improperly gauged wheel sets. The long swivel point works well with a Caboose Industries™ ground throw.

We have found that the Tortoise™ Slow Motion Switch Machine works very reliably with the S gauge switch. This is an under-table mount style DC switch motor. While not the above-table style many prefer it gives the most reliable, solid operation.

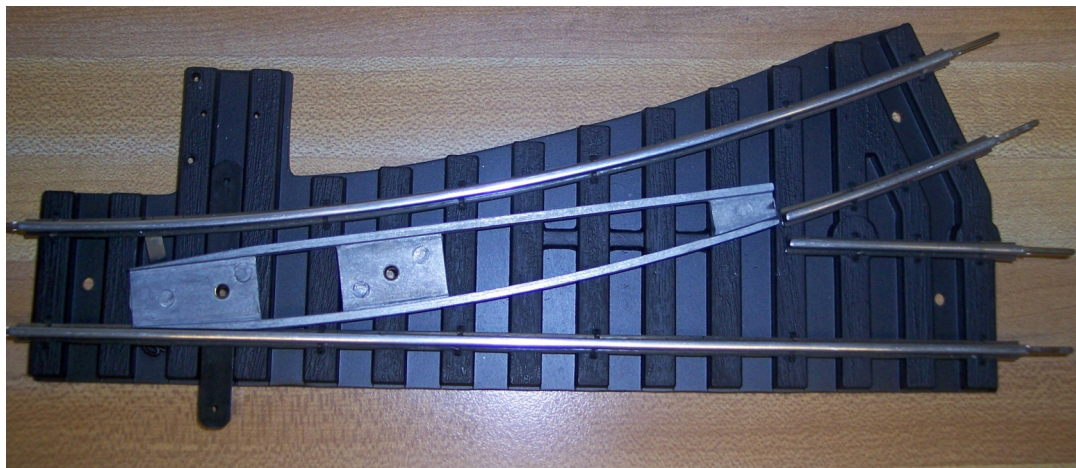
Detailed instructions start [here](#).

Your GarGraves S-42 switch comes out of the package looking like this:



You will need to remove the Ground throw. Use a flat bladed screw driver and gently pry up in the space under the ground throw.

The switch now looks like this:



Next you will need to modify the base on the switch. A slot needs to be made between the elongated ties where the ground throw was just removed. The control linkage between the machine and the throw bar will pass through this slot. (The instructions with the switch motor indicate a $\frac{1}{4}$ hole is needed, we found that the hole needs to be elongated for linkage travel)

**** See note at bottom of page

If the turnout is not installed in the layout, flip it bottom side up and cut a slot (or drill two $\frac{1}{4}$ holes side by side) in the space between the ties, starting $\frac{3}{4}$ of an inch from the end of the tie create a slot $\frac{1}{2}$ inch long as shown in the picture below:



Follow the switch motors manufacturers' instructions included with the motor for mounting the motor under the table. We recommend using a GarGraves linkage, (item # S-LW) in place of the linkage supplied. It is slightly heavier and will maintain a more positive point to rail relationship.

It is still important to properly mount the GarGraves switch as specified in the instructions.

****New production of GarGraves S gauge switches will have this slot already made in the switch base.