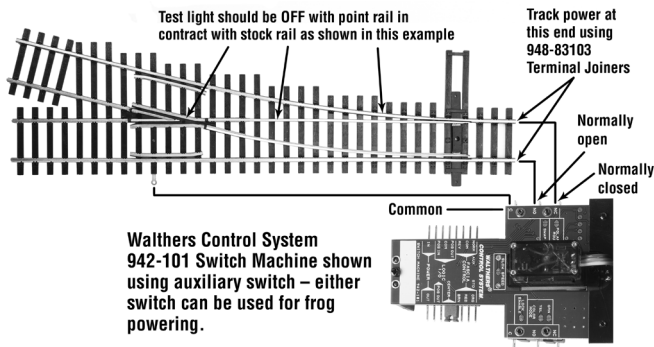


# WALTHERSTRACK™



Thanks for purchasing this Walther'sTrack turnout; please read these instructions before beginning installation.

## **Suggested tools and supplies - each sold separately:**

- Small sharp bladed screwdriver or hobby knife (#17 blade suggested for cutting ties)
- Rail Joiners as needed - Nickel Silver 948-83102, Insulating 948-83104 and/or Terminal with Wire Leads 948-83103
- Wood Spacer Ties 948-83101
- Walther's Layout Control Switch Machines 942-101 or 949-102
- Flush-cutting, pliers-type rail nipper

- 1) **PLEASE NOTE:** No modifications are needed for manual operation using factory-installed snap action. To operate your turnout with a switch machine such as Walther's Layout Control System 942-101 or 949-102 (each sold separately), carefully pry off spring retainer plate on underside with a small, sharp-bladed screwdriver or knife, and remove snap-action spring.
- 2) Using a sharp #17 blade (or similar), cut plastic webbing and remove end tie closest to points to install rail joiners - see diagram. (During installation, gaps between track sections can easily be filled with Wood Spacer Ties (948-83101 sold separately). Test-fit turnout in desired location: if modifications are needed, use a flush-cutting, pliers-type rail nipper to trim rails. For crossovers or other special track arrangements, trim rails to match your track centers.

3) To use under-benchwork switch machine, read and follow manufacturer's installation instructions. Drill recommended size hole for actuation rod, which will be inserted through insulated throwbar.

4 **PLEASE NOTE:** If you plan to use Track Nails 948-83106 to secure turnout, drill out partially-molded starter points on underside of turnout with an .037" (0.9mm) bit such as Walthers 947-63, available separately.

5) Power your turnout from the point end. Connect temporary leads to your track power. We suggest using WalthersTrack 948-83103 Terminal Rail Joiners with wire leads.

6) Hold your turnout up to a light to locate spike-mounting holes, which you can use with Track Fastening Pins 948-83107. Temporarily pin turnout in place, check that rails are straight and level, and that throwbar moves freely.

7) Optional Electrical Connections - as built, only the frog is isolated; when track power is applied at point end, current jumpers on underside supply constant power to continuous rails and exit tracks. A soldering tab is provided at the side so frog may be powered if desired. Walthers Layout Control Switch Machines are equipped with two auxiliary single-pole double-throw (SPDT) switches that can also be used to power frog - see diagram. **PLEASE NOTE:** position of switch machine and auxiliary switch used will determine wiring needed to power frog.

We suggest using a 12V DC lamp such as Faller 272-180670 to confirm wiring is correct - **DO NOT USE A LED - lamp will remain off if wiring is correct when you place test leads on frog and aligned point rail** - if lamp comes on, reverse frog connection wiring.

8) Remove mounting pins, test to confirm points move freely and run a car or loco across: make any adjustments as needed and complete any electrical connections **before** ballasting or painting your turnout. Use Wood Spacer Ties (948-83101, sold separately) between turnout and track to fill any gaps. If you paint turnout, clean top and inside edges of all rail surfaces. When ballasting, do not allow ballast or glue in area of throwbar between two long (head) ties. Apply dry ballast in area with moving point rails; taking care to make sure it's below and away from moveable points and head ties. Make sure throwbar moves freely in both directions before and after securing ballast with a mix of white glue and water, or matte medium.