

Construction of the 4-track Zellner Yard uses the following booklets and drawings:

1. 8-1/2" x 11" Assembly Booklets to guide you through the 11"x17" drawings:

- #P1651 (gray- colored) — 40 pages of step-by-step instructions for assembly of the rheostat/switch bracket and base
- #P1653 (tan colored — 56 pages of additional notes for operating 4 tracks

2. 11" x 17" Construction Sheets:

- ** Sheet 51 - Cover Sheet
- ~~Sheet 31 - Cover Sheet~~
- Sheet 32 - Photo Sheet
- Sheet 33 - #1654 Track Unit Layout—Main Line Only
- Sheet 34 - #1654 Track Unit Layout—Two Tracks
- Sheet 35 - #1654 Track Unit Layout—All Four Tracks
- Sheet 36 - Track Unit Wiring" — Main Line Only
- Sheet 37 - Track Unit Wiring" — Two Tracks
- Sheet 38 - Track Unit Wiring" — All Four Tracks
- ~~Sheet 39 - #1653 Helper Control Unit—Full Size Layout (Template)~~
- ** Sheet 59 - #402 4-track Control Unit—Full Size Layout (Template)
- Sheet 40 - Control Unit Interconnections
- ~~Sheet 41 - Parts List & Costs—Control Unit~~
- ** Sheet 61 - Parts List & Costs- #402 Control Unit
- Sheet 42 - Parts List & Costs- Track Unit

3. 11" x 17" Operating Sheets:

- Sheet 43 - Checkout Startup Instructions—1 and 2 Tracks
- Sheet 44 - Checkout Startup Instructions—4 Tracks
- Sheet 45 - Startup Instructions—4 Tracks—Simplified
(use this sheet for normal operation)

4. 11" x 17" Reference Sheets:

- Sheet 46 - Specification Sheet for Target Signal Light
- Sheet 47 - Building Dimensions
- ~~Sheet 48 - Track Unit Wiring—2 piece front base (alternate, smaller)~~
- Sheet 49 - Schematic
- Sheet 50 - Sequencing Schematic — shows how power sequences across the 4 tracks

“***” indicates the 3 drawings
in the new 2006 #D402 set.

NONE of the 11x17" drawings from the gray-colored Part #D1651 drawing set (Sheets 1-22) are needed.

Evolution of these drawings:

Assembly of the Model 402 4-track control unit, involves using parts of 3 different drawing sets.

This situation occurs because this control evolved in 3 steps.

- It started in 1994 as a 2-track unit (1st set of drawings, Sh 1-22)
- In 1996 it evolved to a 4-track unit (2nd set of drawings, Sh 31-50) by using a “helper control unit” to expand from 2 tracks to 4 tracks.
- In 2006 the design was updated to combine all the controls onto a single template (3rd set of drawings, Sh 51, 59, & 61).

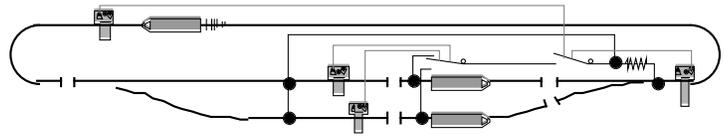
Zellner Yard

Part #D402
2006 Drawing Update Set

4 - Track Automatic Switching Block (G scale)

Summary:

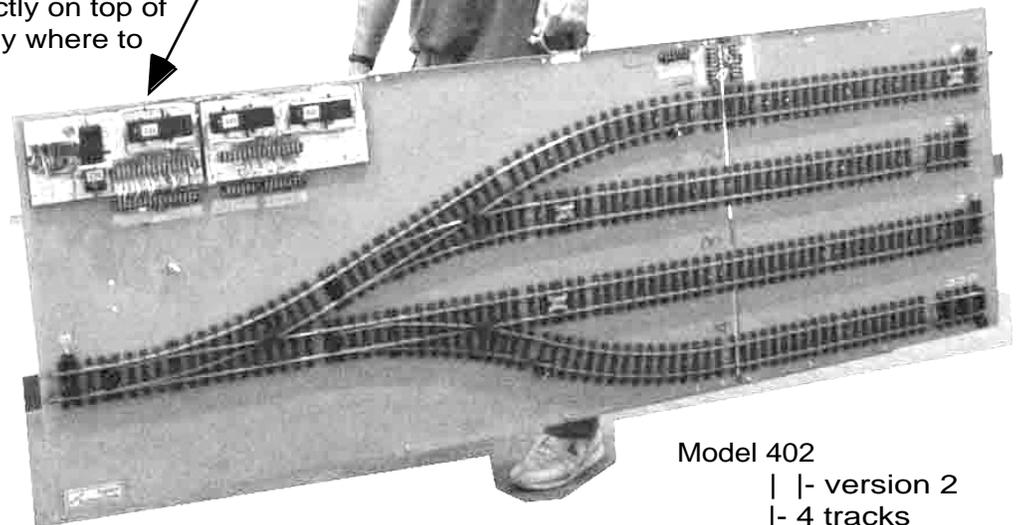
This drawing update set is used to build the control unit for the 4-track Zellner Yard automatic switching block. The "new" template Sheet 59 replaces the earlier & smaller template sheets 9 (2 track control) & 39 (expansion from 2 to 4 tracks).



— *Ingram Autocontrols* —
'U_BLD_M' Drawing Series
www.track2.com/ingram



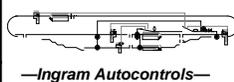
The laminated template for the control unit (Sheet 59) is glued onto the wood base. Parts and wires are then attached directly on top of the template, so you know exactly where to position them.



Model 402
| - version 2
| - 4 tracks

JAMES R. INGRAM
570-477-2520

www.track2.com
WILLIAMSPORT, PENNSYLVANIA



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TITLE MODEL 402 4-TRACK AUTOMATIC SWITCHING BLOCK

DWG SERIES

D402

ORIG 03 Feb 2006

REV B, **02 May 2006**

COVER SHEET

SH.

51

© 2006 SCALE 1"=1" (11"X17") UNLESS NOTED