

Tomix TNOS System
Update 3 (2020-03) Notes and Comments in English

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Use alongside the Tomix Japanese document at
www.tomytec.co.jp/tomix/necst/5701tnos/images/update/tnosupdatamanual202003.pdf

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• **3rd Update - Additional Layout Plan**
New Layout Plan, Cabling and Automatic Operation sequence

* For Layout Plans, also refer to the Basic Set manual.

Each Layout Plan diagram is a reference diagram of the position of the sensors and the insertion direction of the DC Feeder.

The length of the blocks is based on the assumption that two-car trains will be operated. Increase the number of track pieces and adjust the distance between sensors and gaps for longer trains.

* Each layout is an example. Select the type of sensor based on the type of track used.

* The required number of insulated joiners is based on placing gaps on the branching side of a Point track.

* If the length of any cable is not sufficient, use an extension cable.

Layout Plan: 5 Compact (single track)

[in gray box] Cabling * Train locations * Blocks * Station platform locations.

[diagram of Layout Plan 5 (Compact)]

Layout Plan: 5 Compact (single track) Table of Automatic Operation sequences

* Please place Train 1 in Block 1 and Train 2 in Block 2 initially.

6. Swap 1 7. Swap 2 8. Evacuation exchange

[on right] * Added for the TCL exclusive Operation sequences 16-20. See the list of Operation sequence train arrangements.

* This Layout Plan works almost the same as Layout Plan 5 (single track). See Layout Plan 5 for details of the train movements.

* This Layout Plan is not suitable for high-speed operation due to the number of sensors. If you want to enjoy the full standard, add 4 sensors and use Layout Plan 5, Automatic Operation sequences 1, 2, 3 and 4.

Layout Plan: 90 (double track endless loops)

Cabling and Train placement for 1 station

Cabling and Train placement for 2 stations

[Layout Plan diagram with following note]

* F1-3 and F1-4 can be used for Constant Lighting.

[Layout Plan diagram with following notes]

* If you do not use Automatic Operation 3, S1-3 and S1-7 are not necessary.

* Only when S1-3 and S 1-7 are not used, F1-3 can be used for Constant Lighting.

Place trains so they do not straddle multiple sensors.

Layout Plan: 90 (double track endless loops) Table of Automatic Operation sequences

1. 1 lap 2. 2 laps 3. 3 laps 4. 4 laps 5. Limited Express: 3 laps/2 stops 6. Rapid: 4 laps/3 stops

7. Limited Express: 4 laps/3 stops

The following sequences 8-12 are for when 2 stations are present

8. 1 stop per lap 9. Limited Express: 3 laps/1 stop 10. Rapid: 3 laps/2 stops 11. Limited Express: 3 laps/2 stops

12. Limited Express: 4 laps/2 stops
[Note: These sequences are not clear to me.]

Layout Plan: 91 (free-form)

Cabling and Train placement

[Layout Plan diagram}

This Layout Plan requires a personal computer as a rule. It permits free-form operation of 1 train by using Forwarding Mode and Point throwing commands in the TCL language.
Refer to the TCL descriptions in Update 1 and Update 2.

* Automatic Operation sequences 1-4 are for operation of 2 trains only. When starting an operation, place trains initially according to the table to the right.

始 = Starting position

終 = Ending position

[The table shows 4 sequences, giving only the starting and ending sensor positions for Train 1 and Train 2.]

[Pages 2 & 3]

Update 3 – Additional Automatic Operation sequences - Train initial placement lists

[These pages provide tables for existing Layout Plans 5, 2, 3, 4, 13, 6, 7, 8, 9, 10 and 11, in that order. (The number of the plan is at the end of each table heading). These tables appear to add new Automatic Operation sequences, but the tables provide only the starting and ending sensor positions for the various trains. My brief examination shows that gaps are apparently left in the numbering of Operation sequences. Note: These sequences are not clear to me.]

TCL - Notification of Specification Change due to Enhancement [final note at bottom of last (3rd) page.]

After installing Update 2, any Point connected to an ND Unit can be freely thrown by the Control Unit using a TCL command (except during the execution of an Automatic Operation sequence). Now you can install a yard, etc. As a result of adding this new function, the Safety Siding interlocking function originally part of Layout Plans 5, 6 and 7, as a general rule will no longer work after this update has been downloaded and installed. [Refer to the Japanese-prototype Safety Sidings on page 35 (top right) of the 5701 Basic Set manual, as well as page 14 of my Notes in English for the 5701 Basic Set manual.] However, the Safety Siding interlocking function can be restored by deleting the “tlf” file downloaded at this time in the folder (L005, L006, L007) of the Layout Plan on the Memory Card. (After this deletion, the new Point throwing enhancement will not be operational). In addition, in each of Layout Plans 2, 3, 12 and 13, we have prepared a “tlf” file in the “POINT” folder of the download data that enables operation of Points not used in Automatic Operation. Please use it. Before performing any of these operations, be sure to make a backup of the data and be careful not to erase the original data on the Memory Card.