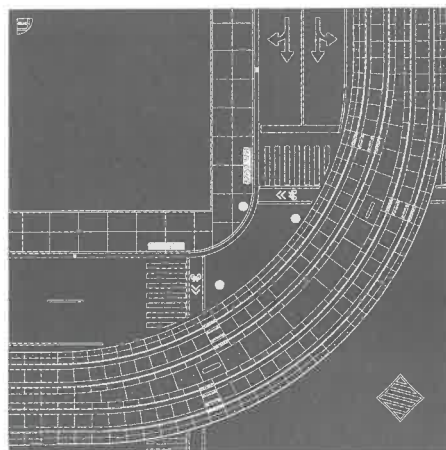
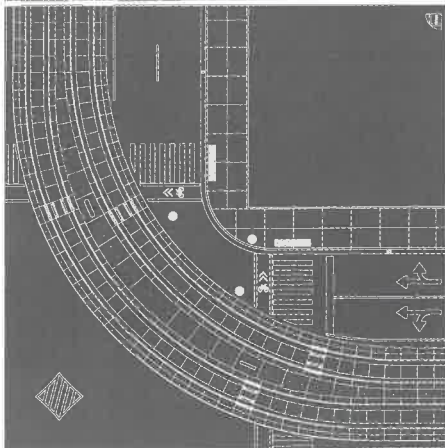
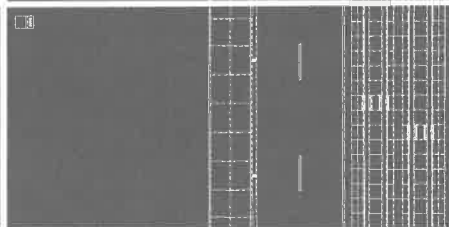
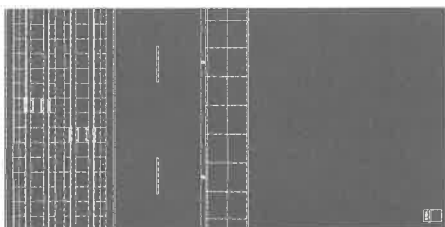
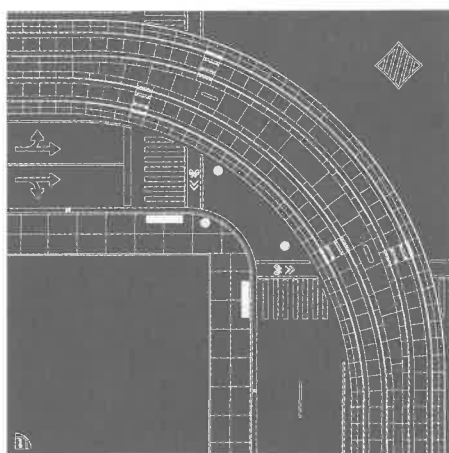


Manual and Quick Start Guide

• 40-810

UNITRAM Street Track Basic Set V60
- North American Style



UNITRAM

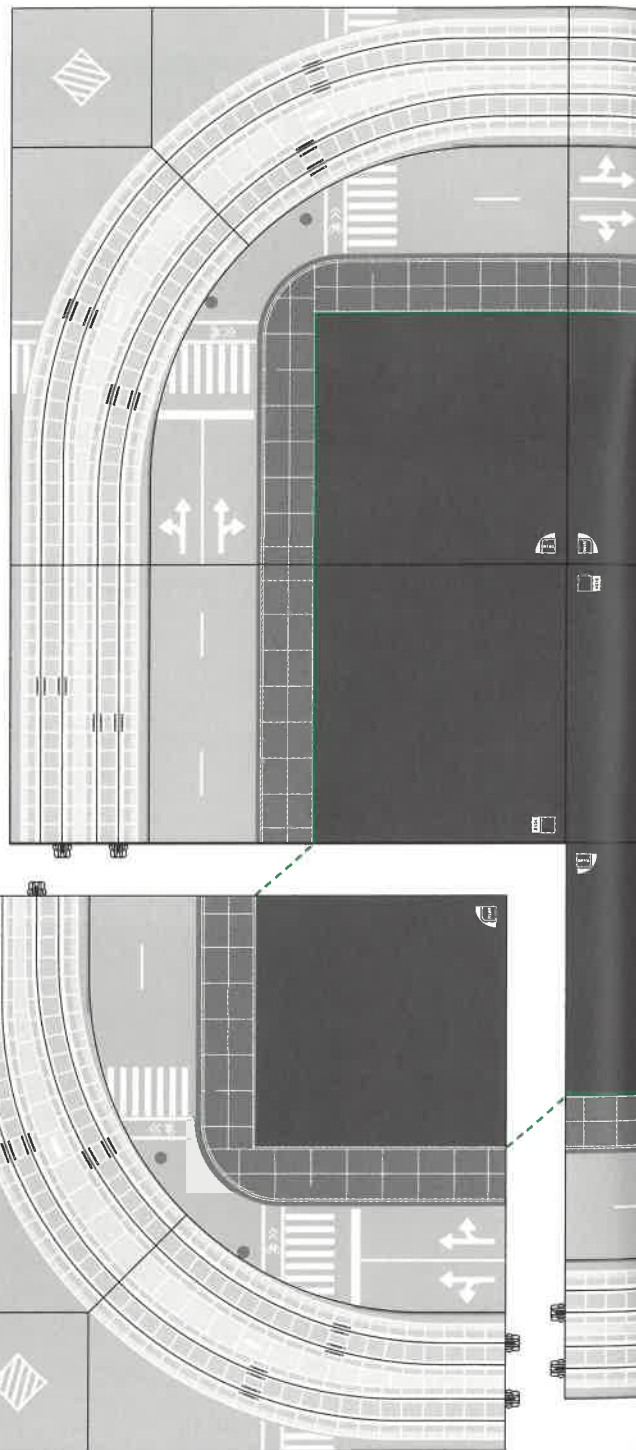
00

Kato
UNITRAM

UNITRAM

KATO
PRECISION RAILROAD MODELS
UNITRAM

40-810 V60 UNITRAM Basic Track Set



Easy Expansion
Possibilities



DioTown

UNITRAM's CompleteTrack System is compatible with DioTown Structures, vehicles, and figures. (sold separately)

01

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What's so special about Light Rail Transit?

Light Rail Transit (LRT) systems and Street Cars are ideal for urban settings in which easy access to public transportation is a necessity.

Unlike heavier duty metro systems that are usually operated with a locomotive, or the typical above-or-below ground subway system, they can be integrated into the existing street pattern of a city environment, allowing them to provide quick and reliable transit without overly delaying (or being delayed-by) motor vehicle traffic or requiring the extensive construction of new infrastructure.

As street-level Light Rail Transit Systems operate alongside standard traffic patterns instead of within them, they can function on a more predictable and reliable schedule than buses while still remaining an easy to use, reliable system that can cycle and move traffic quickly and effectively.

UNITRAM Street Track Basic Set V60 - North American Style

Items
included
in the

V60

UNITRAM
Street
Track
Basic Set

North
American
Style

UNITRAM Track Plates (Track + Road)

Assembled Dimensions:
496mm x 620mm (19 1/2" x 24 3/8")

- 2 x Straight Track Plate - 124mm (4 7/8")
- 4 x Curved Track Plate with Intersection - R180mm (7")

UNITRAM Accessory Kit

- 1 x Tram Stop Parts Set, 1 x Sticker Sheet
- 2 x Sets of Catenary Pole Bases, 1 x Straight, 2 x Curved Catenary Pole Sets
- 1 x Road sign Sets, 4 x Street Traffic Signal Sets, 1 x Streetlight Sets
- 1 x Tram Rerailer, 1 x Unijoiner Removal tool
- 2 x UNITRAM Track Feeders
- 18 x Tram Joiners (28 total including pre-installed joiners)
- 12 x Type A Plate Joiners (20 total including pre-installed joiners)
- 4 x Type B Plate Joiners

Booklets

- 1 x UNITRAM Manual and Quick Start Guide (this book)

If you purchase the V60 UNITRAM Basic Track Set:

To operate trains on the V60
Basic Track Set you will need,
in addition to the V60:

- 1 x Kato Power Pack
- 1 x Light Rail Car



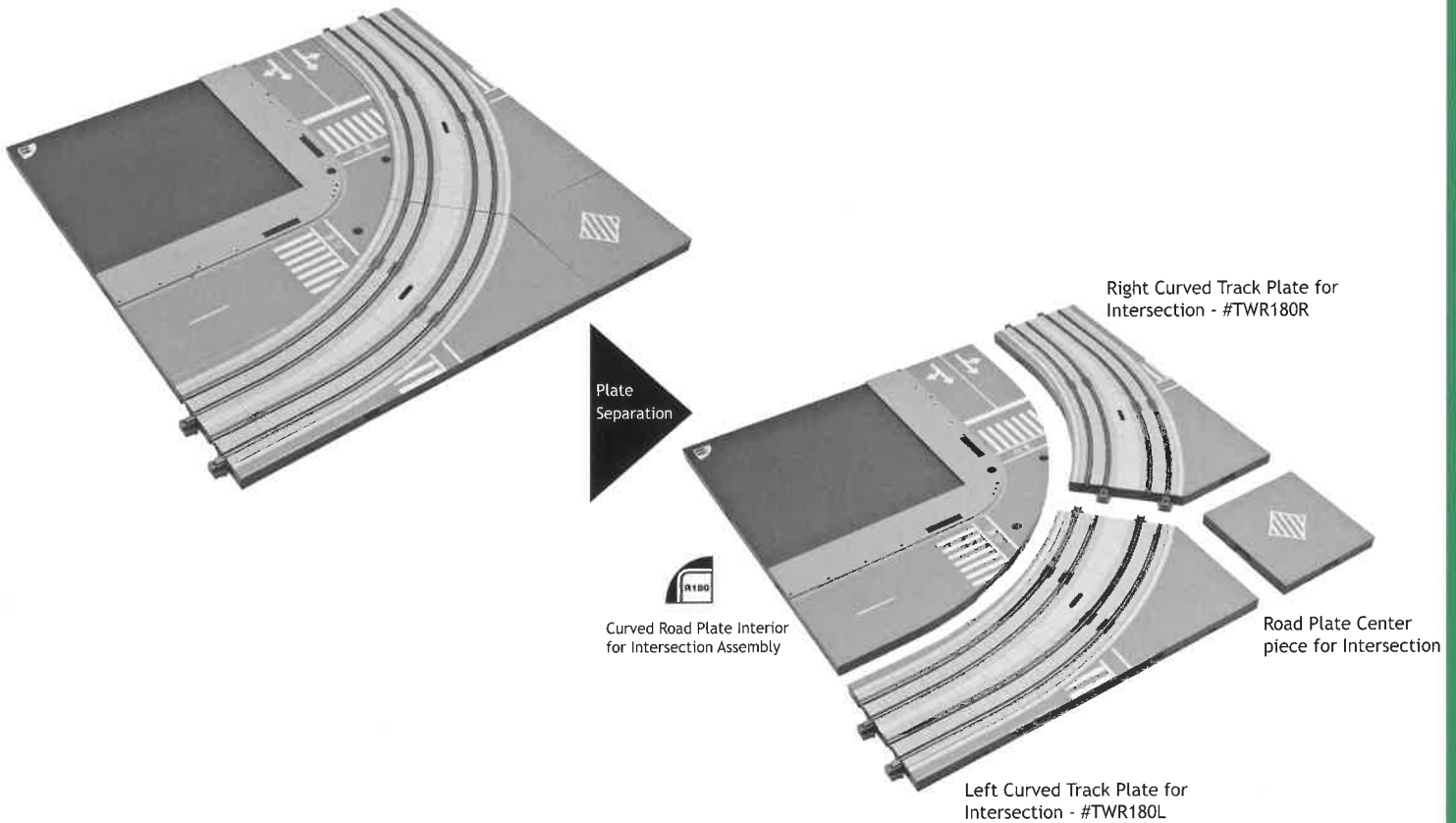
#22-014

Kato Power Pack
- Includes AC Adapter

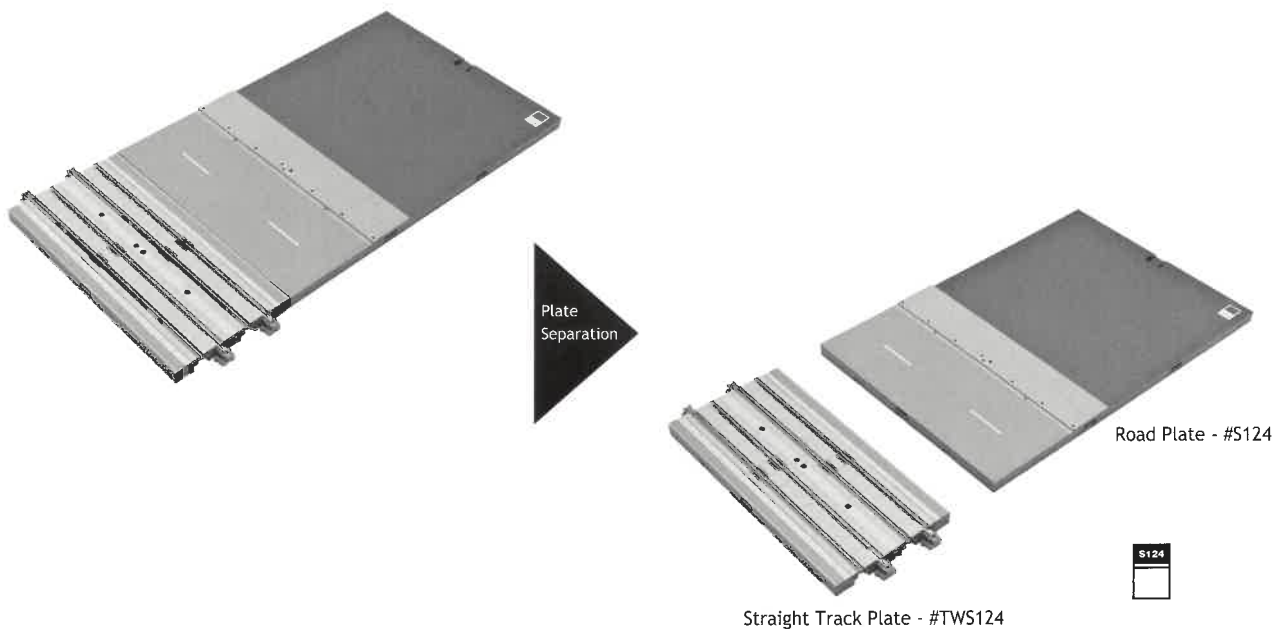
To operate trains independently on either the Portram Starter Set or the V60 Basic Track Set, you will need a total of two Kato Power Packs, one for each Light Rail Car.

Track Plates (Track + Road)

4 x Curved Track Plate with Intersection - R180mm (7")



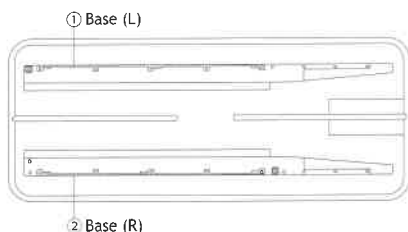
2 x Straight Track Plate - 124mm (4 7/8")



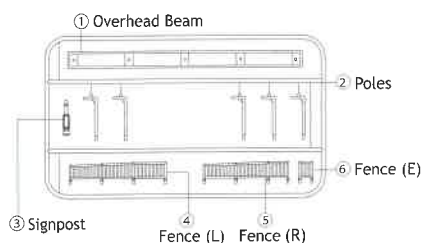
! Please note that markings and printing on the actual product may differ from the product depicted in this manual. !

Accessories (Contents of Accessory Parts Kit)

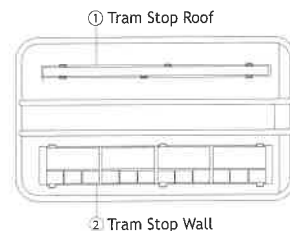
1 x Tram Stop Sidewalk Base



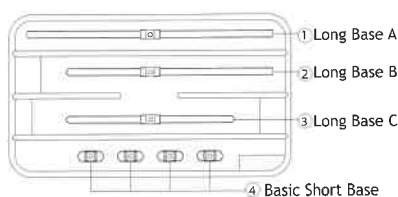
2 x Tram Pole and Overhang Set



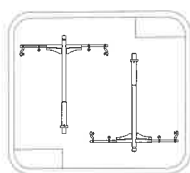
2 x Tram Stop Roof



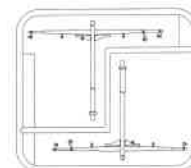
2 x Catenary Pole Bases



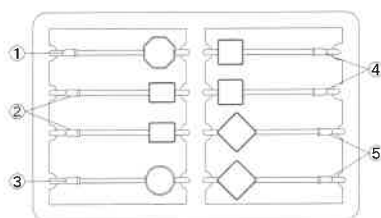
1 x Straight Track Catenary Poles



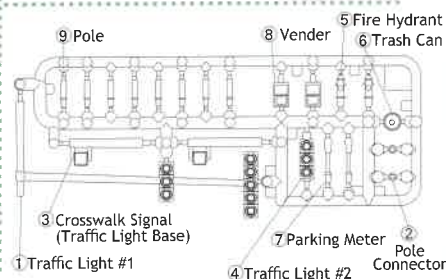
4 x Curved Track Catenary Poles



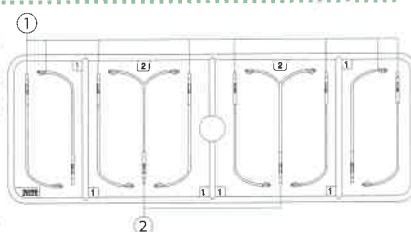
1 x Road Signs



4 x Street Traffic Signals



1 x Streetlights



Rerailer



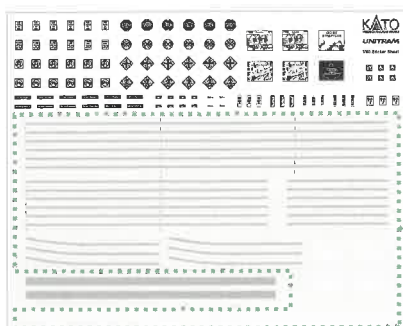
2 x UNITRAM Track Feeder



1 x Unijoiner Removal tool



1 x Sticker Sheet



18 x Tram Joiner

(28 In total including pre-installed joiners)



12 x Plate Joiner A

(20 In total including pre-installed joiners)

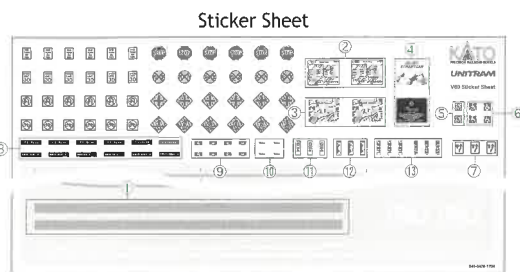


4 x Plate Joiner B



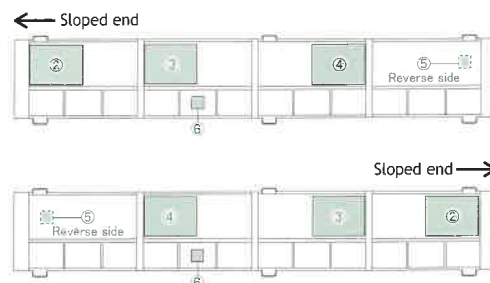
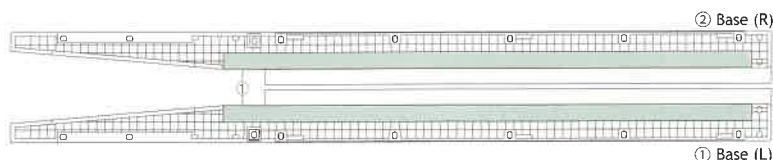
The highlighted area on the sticker sheet is for use with other single track pieces to adjust the lines to a US Style.

Tram Stop Assembly



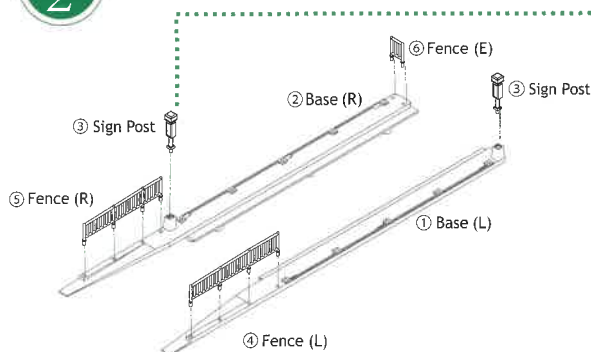
Step 1

Preparation of the Tram Stop Base
Stickers can be applied to the Tram Stop Base to further detail it as shown.

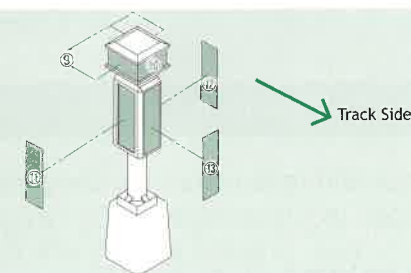


Step 2

Installing Signposts and Fences



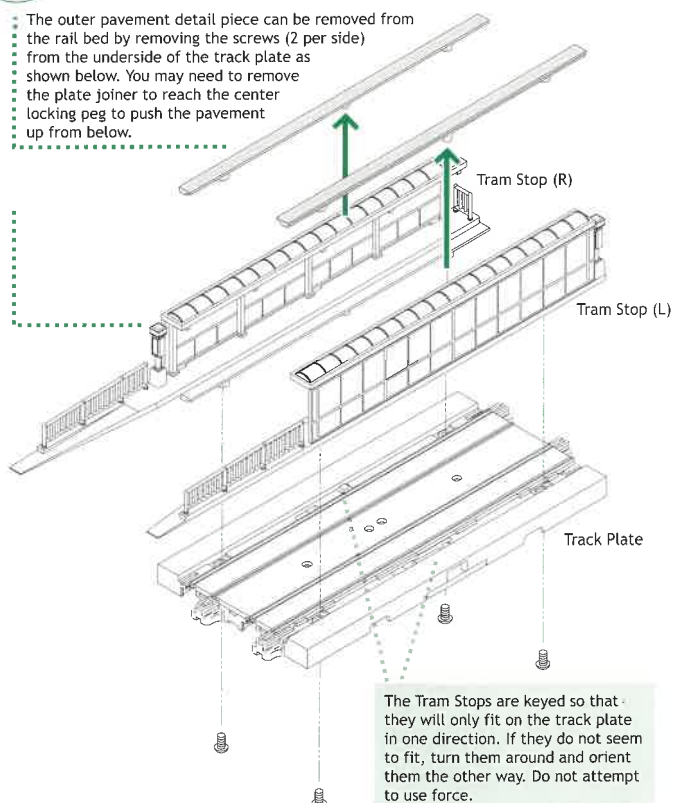
Signpost
Sticker
Placement



Step 5

Mounting the Tram Stop to the Track Base Plate

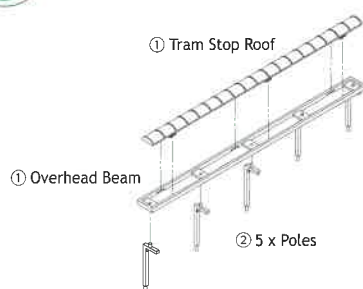
The outer pavement detail piece can be removed from the rail bed by removing the screws (2 per side) from the underside of the track plate as shown below. You may need to remove the plate joiner to reach the center locking peg to push the pavement up from below.



The Tram Stops are keyed so that they will only fit on the track plate in one direction. If they do not seem to fit, turn them around and orient them the other way. Do not attempt to use force.

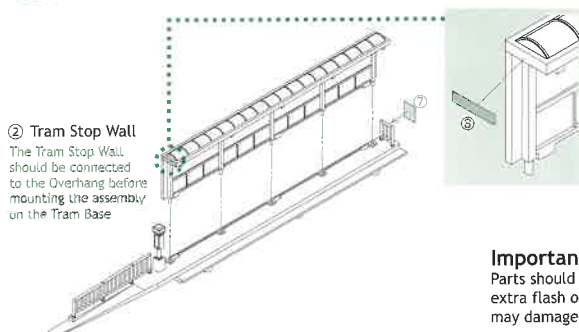
Step 3

Assembling the Tram Stop Overhang



Step 4

Connect the complete Overhang assembly to the Tram Stop Base

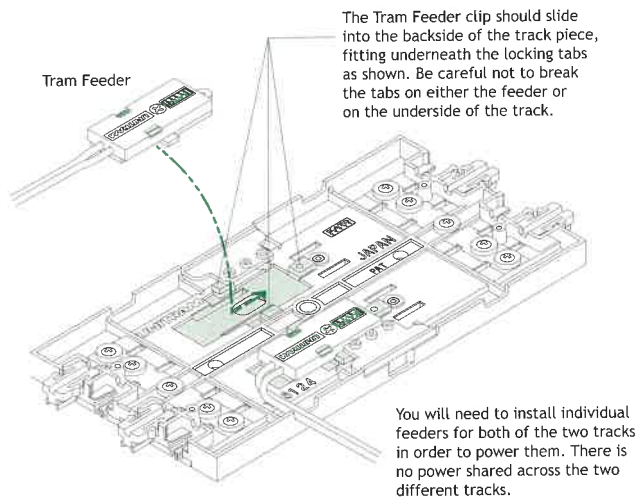


Important Note about removing parts from sprues and assembly

Parts should be removed from their respective trees with a pair of side cutters or modelers trimmers, and may have extra flash or sprue residue carefully removed with a hobby knife or sandpaper. "Twisting" parts off of parts trees may damage or warp the parts and is not recommended.

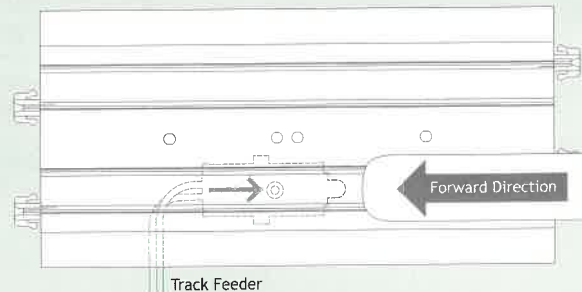
Tram Track Feeder Installation

The wired feeder plug is meant to transmit electricity from the Power Pack to the rails. it can be attached to any of the straight track sections or to curved track pieces in the set.



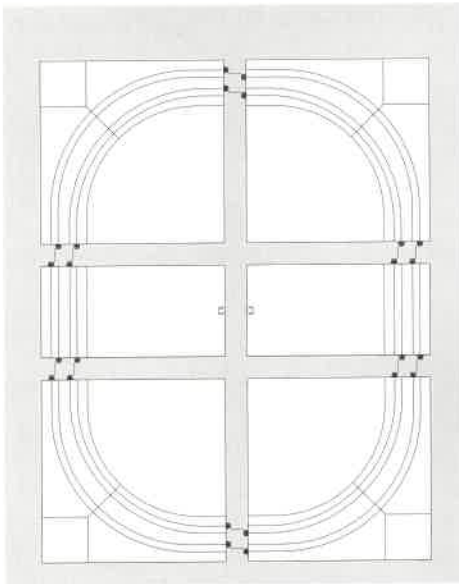
Feeder orientation vs. Running Direction

The “forward” and “reverse” directions for the track are dependent on the orientation of the feeder track. As shown below, “forward” for the trams is exactly opposite to the direction of the track feeder. This will help you keep track of the direction of the electrical current when combining UNITRAM light rail track to UNITRACK.



Basic Plate Connection 1

The track and road plates are designed to interlock with each other using three different joiner types in addition to the standard Unijoiners on the track sections. Once you have installed the feeder tracks and Tram Stop, prepare a flat space on which to connect the track and road plates together.



Connect Track Plates (Track + Road)

The Road plates which have track attached to them can be connected to each other using only the standard Unijoiners without the use of additional plate joiners. Optionally, you can use added joiners to strengthen the connection between plates as necessary - Refer to Page 9 “Basic Plate Connections 2” for details - Do not throw away any unused joiners as they will be needed if you wish to expand the base with additional track plates.

Joiner Types

T: Tram Joiner

Designed to Connect Track Plates to Road Plates

A: Plate Joiner A

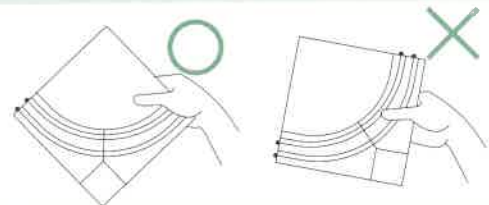
Designed to Connect Road Plates together

B: Plate Joiner B

Supplemental plate joiner used to hold road plates together more firmly.

- Tram Joiners and A-type Plate Joiners should be inserted and removed horizontally from their sockets and should not be bent vertically.

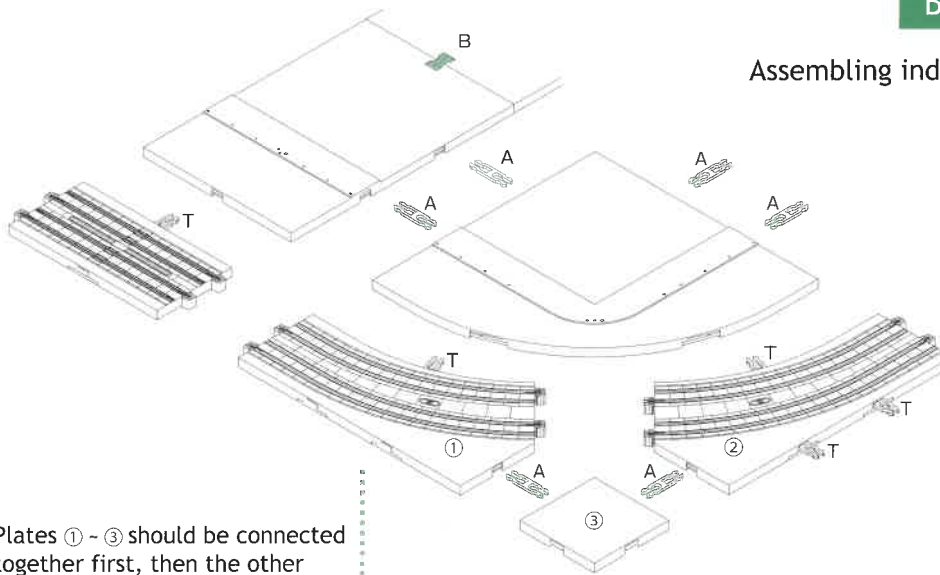
Important Notice



When you lift the connecting plates, remember that parts can detach. Always hold them as securely as possible.

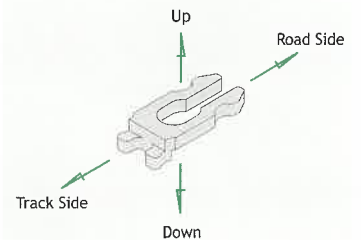
Basic Plate Connection 2

Assembling individual Road and Track Plates



T: Tram Joiner
A: Plate Joiner A
B: Plate Joiner B

T : Tram Joiner Orientation

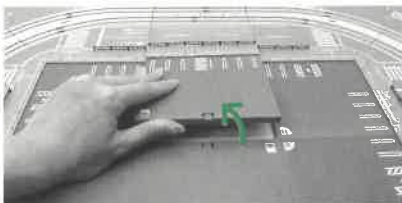


Plates ① - ③ should be connected together first, then the other plates can be attached to the combined assembly.

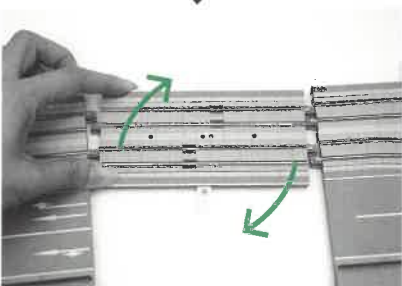
This product is designed to let you connect the plates in any way you choose. You should experiment with the different connection options to create your own layouts.

Disassembly and Storage of Track Plates (Whole Plates and Curve Plates)

Disassembly of Whole Plates

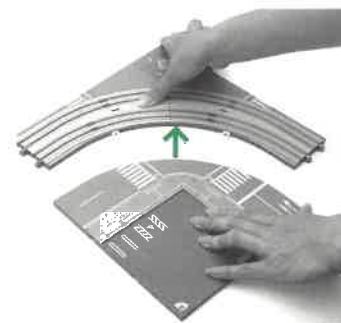


First, take off the road plate section. Then, lift the road plates connected to the straight track Plates from the center as shown to disconnect them.

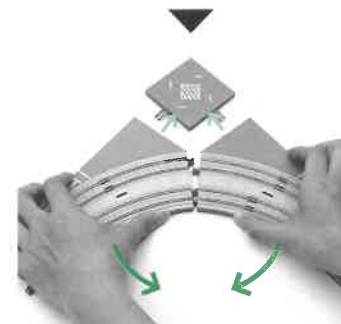


Rotate the rail section on a straight track section as shown to disconnect it from the adjoining tracks.

Disassembly of Curved Track Plates

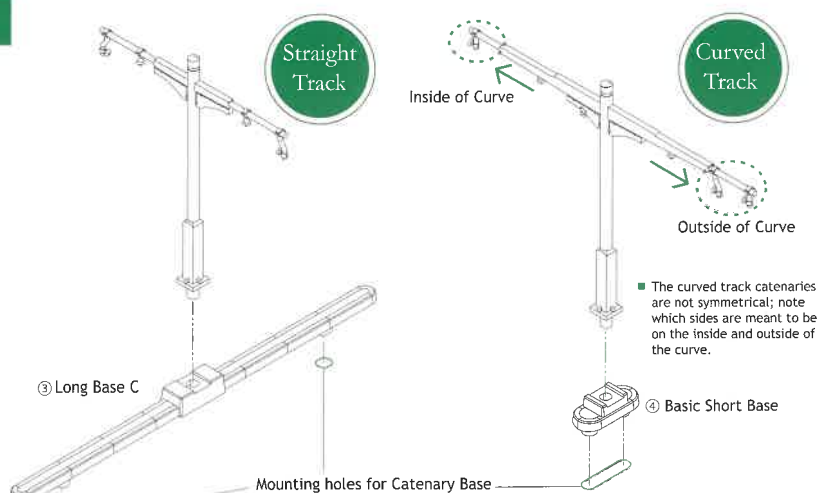


Remove road plate as shown.



Disconnect the track sections from the intersection by bending the tracks as shown.

Installing Catenary Poles



The Different Types of Catenary Bases

[Long Base A] Used for mounting a catenary on a middle section of multiple straight tracks.

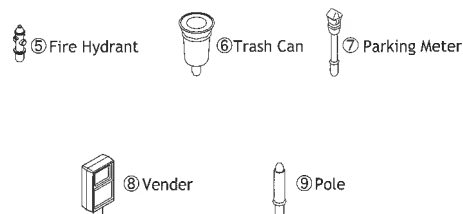
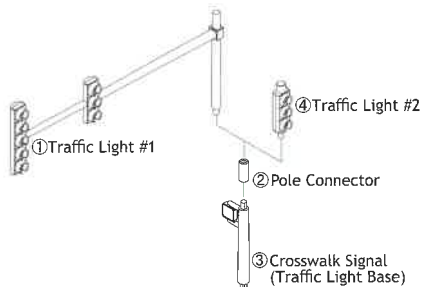
[Long Base B] Used for mounting a catenary on the end sections of multiple straight tracks.

[Long Base C] Used for mounting a catenary on a stand alone straight track.

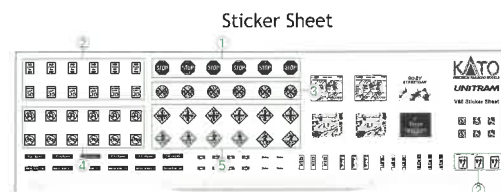
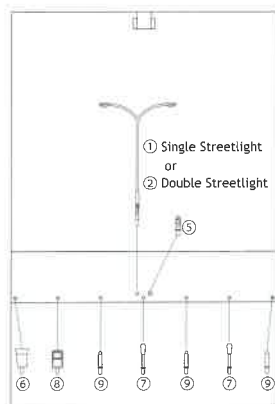
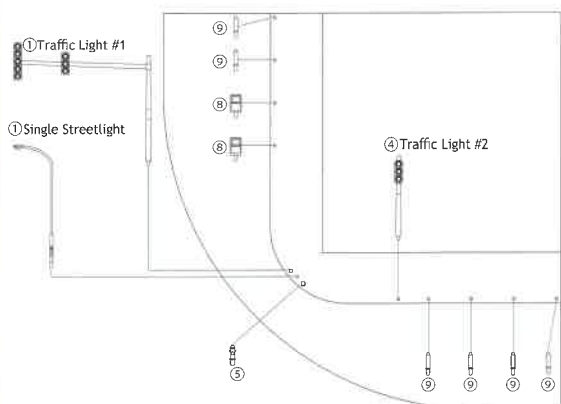
In the sample setups below, Base C is used.

Catenary bases with rounded ends should be used when adjacent to curved track sections.

Installing Street Traffic Signals and Accessory



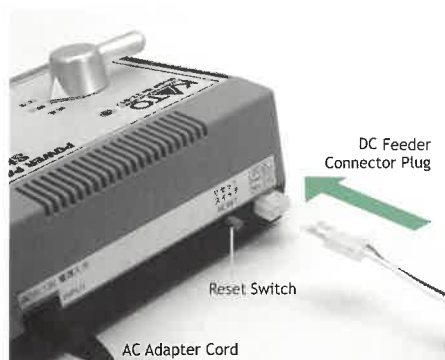
Installing Streetlights and Road Signs



These are just basic examples of how to set up the various lights and fences. The mounting pegs are identical between the different traffic and street lights, allowing you to mix and match them in any way you choose.

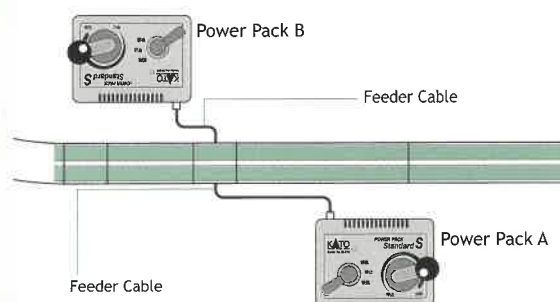
Road signs can be substituted with street accessories ⑥ through ⑨ shown above.

■ Hooking up the Power Pack



- Step 1** Insert the black power cable from the AC Adapter into the Power Pack and plug the Adapter into the wall outlet. The Power light will turn on.
- Step 2** Set the speed control lever to "stop" and set the directional lever to "brake"
- Step 3** Connect the white feeder cable connector to the white DC output plug on the Power Pack.

Setting up Multiple Power Packs for individual Track Control



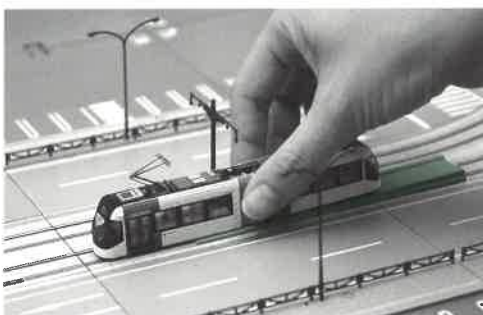
UNITRAM is set up to be used as a double track system.

Prepare the two Power Packs as shown above and hook them up to the feeders for their respective tracks. By connecting two feeder cables to two separate Power Packs, Power Pack A and Power Pack B can control their respective tracks and Light Rail Cars independently from one another.

You should not connect more than one Power Pack to a single track, as it may cause damage to your Cars or short circuit the power system.

■ Using the Rerailer

Place the rerailer on any straight section of track, locking it down over the rails. Place the car on the center of the rails and slide it down onto the tracks - the rerailer will make sure that the wheel flanges align properly on the rails.



■ Operating the Kato Power Pack

Power Light
Illuminates when power
is on

**① Directional
Lever**

NOTE: "forward" and "reverse" are related to the direction of track power and may not coincide with the physical "forward" and "reverse" ends of your train.



② Speed Control Lever

Step 1

Place a Light Rail Car on the track, set the Directional Control lever to "forward" or "reverse" and turn the Speed Control Lever to supply power to the car.

Step 2

The more you turn the Speed Control Lever towards "Full", the faster that it will run. Be careful when running cars at higher speeds.

06

Troubleshooting

If you are experiencing problems with your track, consult the following checklist to see if it helps solve your issue.

is the plug properly plugged into the transformer and into the wall outlet?	NO	Re-insert the plug into the wall outlet and into the terminal on the rear of the Power Pack.
YES		
Is the pilot lamp of the power pack lit?	NO	There may be a short circuit on the track. Clear the tracks of trains and push the reset button on the rear of the Power Pack.
YES		
Is the feeder wire properly inserted both into the underside of the track and into the Power Pack?	NO	Insert the connector into the power pack and the feeder properly into the bottom side of the track.
YES		
Are the track sections coupled securely?	NO	Check and make sure that all of the track connectors are properly fastened and not misaligned.
YES		
Is your track clean?	NO	You should regularly clean your tracks by using a cotton swab or cloth soaked with track cleaning solution or a low-concentration (nothing above 90%) rubbing alcohol. After cleaning the tracks, wipe them down with a dry cloth to ensure there is no leftover residue.
YES		
Double check again. Just in case.	NO	



KATO USA

www.katousa.com

UNITRAM

www.katousa.com/N/Unitrack/

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