

**KATO**  
PRECISION RAILROAD MODELS

# *HO & N Track Catalog*

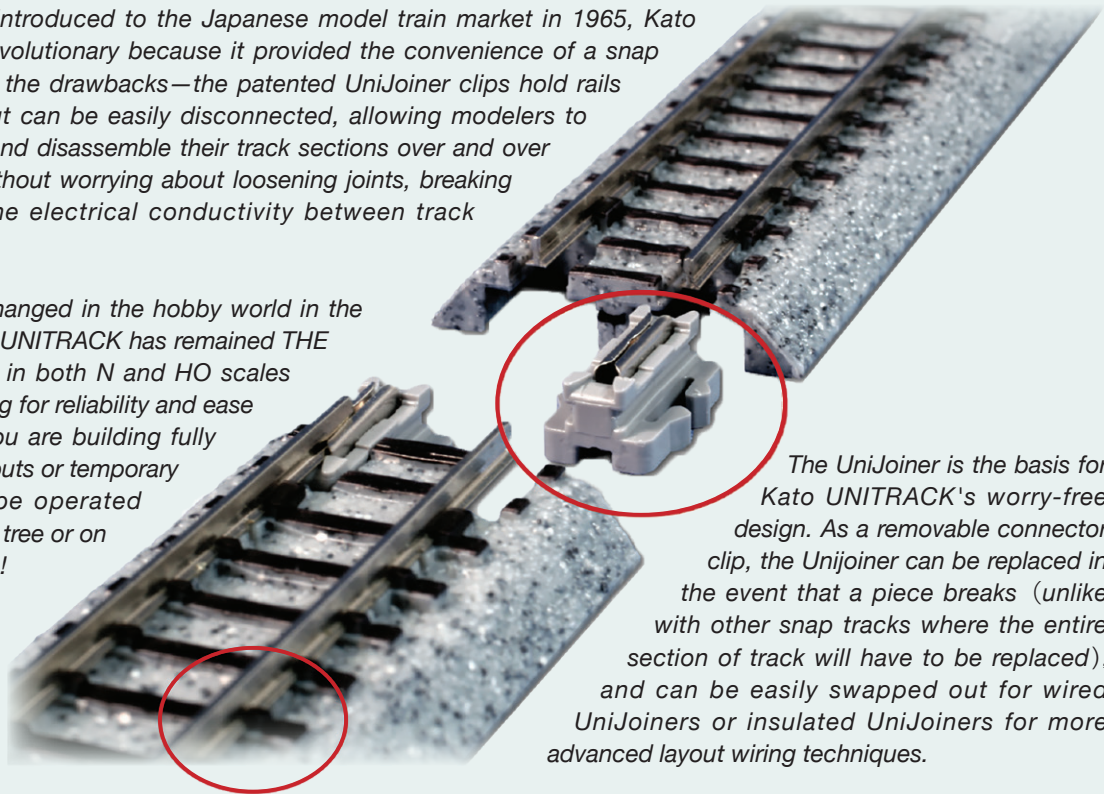


# The **UNITRACK** Advantage

Why Kato UNITRACK is ideal for building both your permanent and temporary layouts

When it was first introduced to the Japanese model train market in 1965, Kato UNITRACK was revolutionary because it provided the convenience of a snap track with none of the drawbacks—the patented UniJoiner clips hold rails tightly together but can be easily disconnected, allowing modelers to reliably assemble and disassemble their track sections over and over and over again, without worrying about loosening joints, breaking clips, or losing the electrical conductivity between track segments!

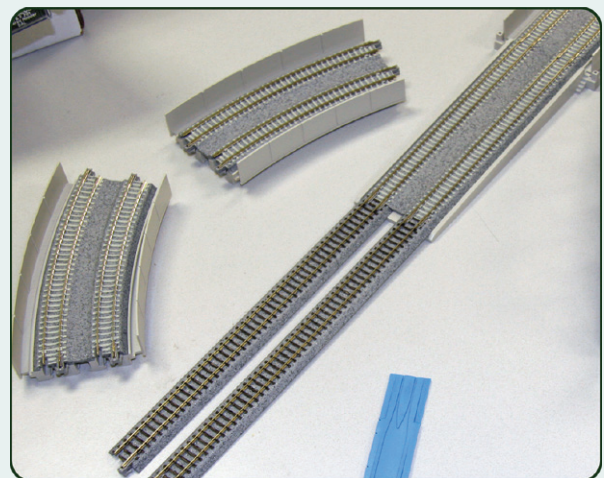
While much has changed in the hobby world in the last decades, Kato UNITRACK has remained THE ideal track system in both N and HO scales for modelers looking for reliability and ease of use, whether you are building fully detailed scenic layouts or temporary setups that can be operated around a Christmas tree or on a dining room table!



The UniJoiner is the basis for Kato UNITRACK's worry-free design. As a removable connector clip, the UniJoiner can be replaced in the event that a piece breaks (unlike with other snap tracks where the entire section of track will have to be replaced), and can be easily swapped out for wired UniJoiners or insulated UniJoiners for more advanced layout wiring techniques.

## Elegant in design and function

Kato UNITRACK uses a special alloy of nickel silver to prevent tarnishing and reduces the frequency of cleaning that is required. If you are an occasional modeler who only takes out the train set on holidays, that means you won't need to worry about your rails rusting away in the package! Likewise, if you operate your trains on a daily basis, you'll have to clean your track less often and have fewer instances of lost conductivity!



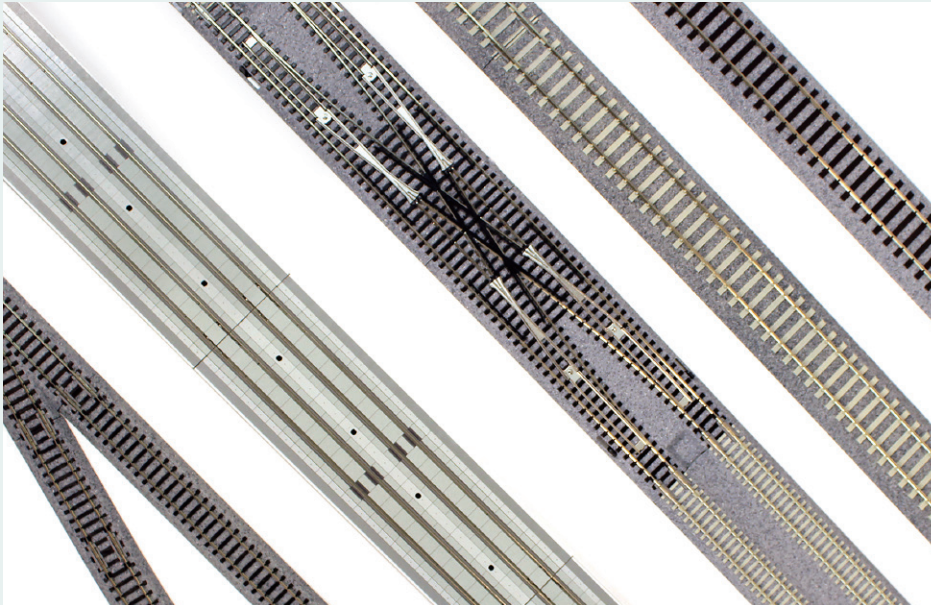
## Why UNITRACK is enjoyed worldwide

- Thanks to UniJoiners, the connection and energy flow between the tracks is firmly secured.
- UniJoiners can be removed and exchanged for new ones.
- UniJoiners can be exchanged for insulated UniJoiners.
- UniJoiners can be used for both N scale and HO scale.
- UniJoiners can also be used for other companies' TT scale and HO<sub>n3</sub> scale tracks.
- By removing UniJoiners, you can easily connect UNITRACK to flexible tracks.
- UNITRACK can be used with both analog and with DCC.
- UNITRACK can conduct 36VA (12V × 3A).
- UNITRACK has a wide roadbed for stability.
- UNITRACK looks great with point machines and feeder wires hidden away.
- UNITRACK offers endless possibilities for creating layouts, including expanding on them through individually available UNITRACK items.
- With radii from R117 to R718, UNITRACK fits in spaces of any size.
- Reliable production in Japan.

# The **UNITRACK** Advantage

Why Kato UNITRACK is ideal for building both your permanent and temporary layouts

## Wide variety for any layout



*One of the biggest benefits of using Kato UNITRACK is the variety of track styles to choose from—There are various types of single and double tracks including viaduct and pier sections for running elevated trains and even street tracks, complete with compatible road sections and pre-built structures for making city scenes!*

*All Kato UNITRACK components are inter-compatible within the same scale meaning it's a "snap" to link up single track pieces to double track pieces, to elevated viaduct pieces, or even between the new street track sections. Your only limit is your imagination!*

## Perfect for any skill level



*Whether it's being used for a quick build that can be assembled and disassembled in minutes or carefully being weathered and built into a permanent, decorated layout, Kato UNITRACK benefits from a tried-and-true design that reduces necessary maintenance and allows for easy and reliable assembly, so that no matter what level of skill you are, using Kato UNITRACK in your layout means you and your family can spend more time actually operating trains—not troubleshooting connection issues or cleaning rails.*

# Kato Starter Set

The perfect introduction to N scale

## Get started with the starter set!



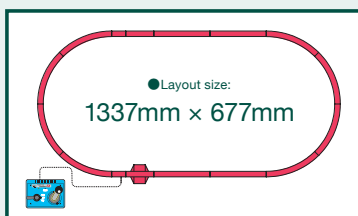
Introduce yourself to the wonderful world of N scale modeling with one of Kato's N Scale Starter Sets! Each set includes one locomotive and a consist of freight or passenger cars. Packaged along with a full oval of Kato UNITRACK and a Power Pack, these sets are easily upgraded with additional cars or track—Let your imagination run free and expand your model railroad empire with Kato UNITRACK.

## My First N Scale **Ready right out of the box!**

Here at Kato we have assembled all the items necessary to get started with N scale in our handy "Starter Sets". This is because they include a train, tracks, and a Power Pack, so you can begin right away!

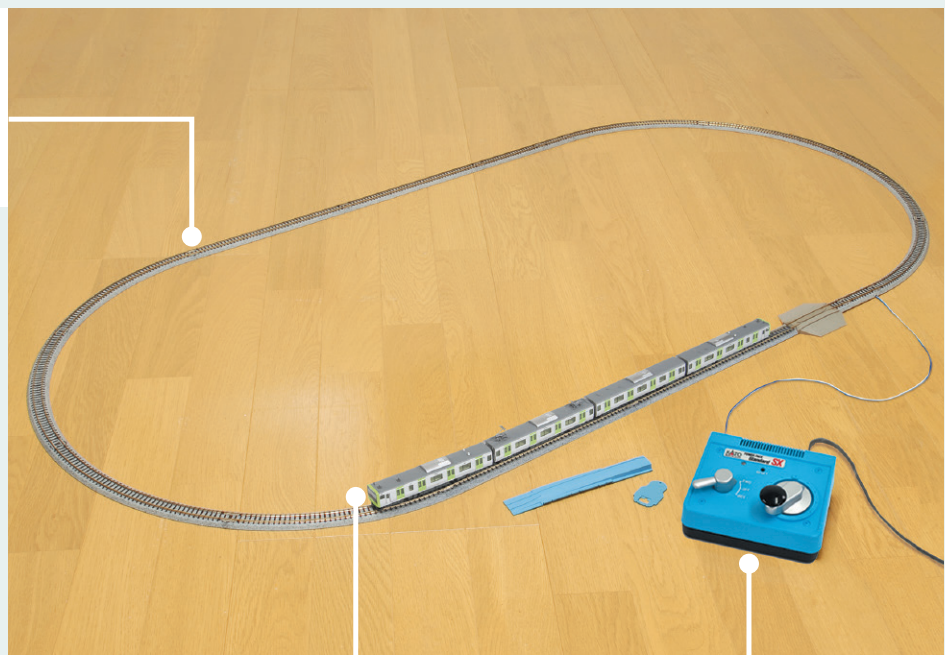
### Tracks

The tracks are UNITRACK, which is easy to use, even for beginners. Enough track is included to create an oval loop on which you can let your train run endlessly.



#### Starter Set Contents:

- Instruction Booklet / Starter Guide
- Storage Tray for additional locomotives, cars, and accessories
- 248mm (9 3/4") Straight Track × 4
- 124mm (4 7/8") Straight Track × 1
- 124mm (4 7/8") Road Crossing × 1
- 62mm (2 7/16") Straight Track × 1
- 62mm (2 7/16") Electrical Feeder Track × 1
- 315mm (12 3/8") Radius 45° Curve Track × 8
- crossing accessories × 1
- Power Pack SX × 1
- Feeder Cable × 1
- AC Adaptor - 12V (N Scale) × 1
- Retailer / UniJoiner Remover × 1



### Trains

Includes a locomotive with freight or passenger cars.

### Power Pack

A device that converts 120V AC, which you get at home, to 0-12V DC to control the speed and direction of your train on the tracks.

# Kato Starter Set

The perfect introduction to N Scale



## ●Kato N Scale Passenger Starter Sets

106-0017	Amtrak P42 Superliner N Scale Starter set	\$290.00
106-0018	Set Santa Fe Super Chief N Scale Starter Set	\$290.00
106-0019	Amtrak ALC-42 Charger & Superliner N Scale Starter Set	\$330.00
106-0031	MP36PH + Bi-Level Chicago Metra	\$330.00
106-0032	Starter Set F40PH + Bi-Level Chicago Metra Starter Set	\$310.00
106-0037	F40PH + Bi-Level Metra New Paint Starter S	\$310.00
106-0041	Silver Streak Zephyr Starter Set	\$335.00
106-0042	ACS64 and Amfleet Starter Set	\$370.00
106-0046	N Chicago & North Western "400" Starter Set	\$400.00

## ●Kato N Scale Modern Freight Starter Sets

106-0020	ES44AC Mixed Freight Starter Set- Canadian National	\$285.00
106-0021	ES44DC Mixed Freight Starter Set- CSX "Boxcar"	\$285.00
106-0022	ES44AC Mixed Freight Starter Set- Canadian Pacific	\$285.00
106-0023	ES44AC Mixed Freight Starter Set - Union Pacific	\$285.00
106-0024	ES44AC Mixed Freight Starter Set - BNSF "Swoosh"	\$285.00
106-0026	N GE ES44 + Mixed F. Starter Set - Florida East Coast	\$290.00


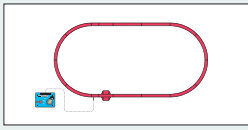
Contains an ES44AC "Gevo" locomotive and mixed freight set with hoppers, gondolas, and tank cars

All aboard with your Original Starter Set!

## Get started with the Master Set


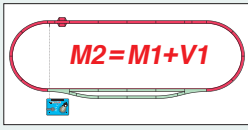
**M1** or **M2** + your favorite train!

**M1** 20-852  
M1 Basic Oval Track Set \$120.00

Layout size: 1337 × 677mm

**M2** 20-853  
M2 Basic Oval Track and Passing Track Set \$220.00

Layout size: 2019 × 751 mm

+



### M1 Set Contents:

- Instruction Booklet / Starter Guide
- 248mm (9 3/4") Straight Track × 4
- 124mm (4 7/8") Straight Track × 1
- 124mm (4 7/8") Road Crossing × 1
- 62mm (2 7/16") Straight Track × 1
- 62mm (2 7/16") Electrical Feeder Track × 1
- 315mm (12 3/8") Radius 45° Curve Track × 8
- Power Pack SX × 1
- Feeder Cable × 1
- AC Adaptor - 12V(N Scale) × 1
- Retailer/UniJoiner Remover × 1

### M2 Set includes the content of M1 and the items listed below:

- 248mm (9 3/4") Straight Track × 6
- 64mm (2 1/2") Straight Track × 2
- 718mm (28 1/4") Radius 15° Curve Track × 2
- #6 Left Turnout with 718mm (28 1/4") Radius Curve × 1
- #6 Right Turnout with 718mm (28 1/4") Radius Curve × 1
- Turnout Control Switch × 2

If you like the idea of our Starter Sets but would rather use your own favorite train, then the train + Master Set combo is for you! The M1 set includes tracks for an oval loop and a Power Pack, just like the Starter Sets. The M2 set is made from M1 and V1, which means it also includes tracks and turnouts for a passing siding.

# N UNITRACK V Series Track Sets

## First Expansion

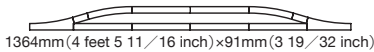
V Series Sets can make expansion easy & simple from the Starter Sets & Master Track Sets. In the V Set line, there are many expandable plans such as sidings, viaducts and additional ovals.

### V1 Mainline Passing Siding Set



Add a station and enjoy trains passing and switching around each other!

- S248 .....6pcs
- S64 .....2pcs
- R718-15 .....2pcs
- EP718-15L .....1pc
- R718-15R .....1pc
- Turnout Control Switch ...2pcs



1364mm (4 feet 5 11/16 inch) x 91mm (3 19/32 inch)

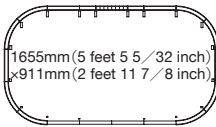
20-860 \$100.00

### V2 Single Track Viaduct Set



Set includes a bridge for overhead crossing.

- S248 .....4pcs
- S248V .....4pcs
- S124V .....2pcs
- R315-45V .....8pcs
- S248T .....1pc
- Incline Pier Set .....1set
- Pier #5 .....4pcs



1655mm (5 feet 5 5/32 inch) x 91mm (2 feet 11 7/8 inch)

20-861 \$120.00

### V3 Rail Yard Switching Track Set



Use this set to lay sidetrack for a rail yard!

- S248 .....6pcs
- S186 .....2pcs
- S64 .....2pcs
- S62B-A .....3pcs
- R718-15 .....3pcs
- EP718-15L .....2pcs
- EP718-15R .....1pc
- Turnout Control Switch ...3pcs



1571mm (5 feet 1 27/32 inch) x 250mm (9 27/32 inch)

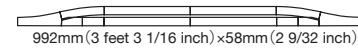
20-862 \$145.00

### V4 Switching Siding Set



Make a station or signal tower where trains pass each other!

- S248 .....4pcs
- S62 .....2pcs
- R481-15 .....2pcs
- EP481-15L .....1pc
- EP481-15R .....1pc
- S60L .....2pcs
- S60R .....2pcs
- Turnout Control Switch ...2pcs



992mm (3 feet 3 1/16 inch) x 58mm (2 9/32 inch)

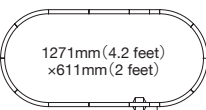
20-863 \$120.00

### V5 Inner Oval Track Set for Starter Set or Master 1 Set



An oval track set to make an inner oval for the Starter Set or M1 Set. (A Power Pack is not included in this set.)

- S248 .....4pcs
- S124 .....1pc
- S124C .....1pc
- S62 .....1pc
- S62F .....1pc
- R282-45 .....8pcs
- Rerailer .....1pc
- Feeder Cable .....1pc



1271mm (4.2 feet) x 611mm (2 feet)

20-864 \$60.00

### V6 Outer Oval Track Set for Starter Set or Master 1 Set



An oval track set to make an outer oval for the Starter Set or M1 Set. (A Power Pack is not included in this set.)

- S248 .....4pcs
- S124 .....1pc
- S124C .....1pc
- S62 .....1pc
- S62F .....1pc
- R348-45 .....8pcs
- Rerailer .....1pc
- Feeder Cable .....1pc



1403mm (4.6 feet) x 743mm (2.4 feet)

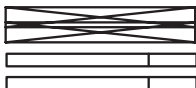
20-865 \$60.00

### V7 Double Crossover Track Set



A complete set of turnouts and a diamond crossover to change trains from one track to the other from either direction.

- Wx310 .....1pc
- S248 .....2pcs
- S62 .....2pcs
- Turnout Control Switch ...1pc



310mm (1 foot 7/32 inch) x 58mm (2 9/32 inch)

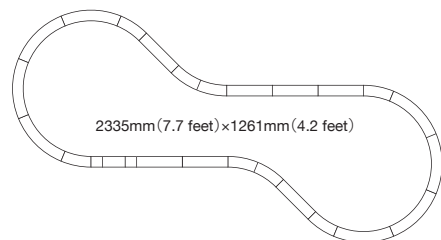
20-866 \$90.00

### V11 Double Track Set R414 / 381 (19'-15")



- WS248PC .....7pcs
- WS124PC .....1pc
- WS62PC .....1pc
- WS62FPC .....1pc
- WR414 / 381-45PC .....8pcs
- WR414 / 381-22.5PCAL .....4pcs
- WR414 / 381-22.5PCAR .....4pcs

Enjoy running two trains through banked, superelevated curves!



2335mm (7.7 feet) x 1261mm (4.2 feet)

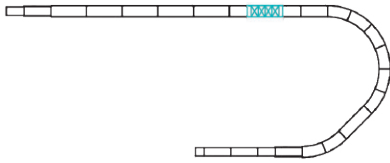
20-870 \$185.00

# UNITRACK V Series Track Sets

## V12 Double Track Viaduct Set R414 / 381 (15'-16 5 / 16")



This set takes double track sections from ground level to viaduct level via viaduct piers and superelevated curves. It also includes a double track truss bridge to crossover existing ground level tracks.



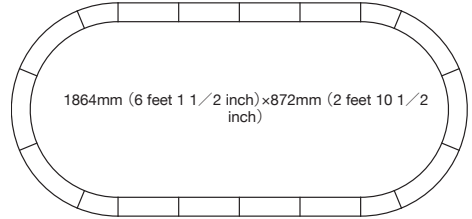
20-871 \$225.00

- WS186PC .....2pcs
- WS124PC .....2pcs
- WS62PC .....1pc
- WS248VPC .....6pcs
- WS186VPC .....1pc
- WS124VPC .....2pcs
- WS248T .....1pc
- WR414 / 381-22.5VPC .....4pcs
- WR414 / 381-22.5VPCAL .....2pcs
- WR414 / 381-22.5VPCAR .....2pcs
- WS186PCINC .....2pcs
- Double Track Pier Set .....1set
- Piers for Double Track Viaducts .....3pcs
- Piers for Truss Bridge .....2pcs

## V13 Double Track Elevated Loop Set R414 / 381 (15'-16 3 / 8")



Start operating trains by going around an elevated loop!



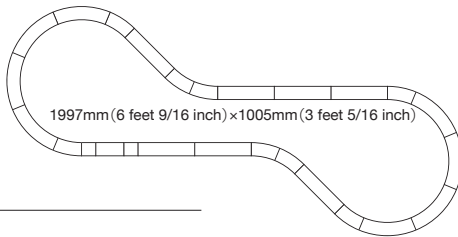
20-872 \$240.00

- WS248VS .....8pcs
- WR414 / 381-45VS .....6pcs
- WR414 / 381-22.5VSAL .....2pcs
- WR414 / 381-22.5VSAR .....2pcs
- Double Track Pier .....18pcs
- Double Track Viaduct Power Code .....2pcs

## V14 Double Track Inner Loop Set R315 / 282 (11'-12 3 / 8")



Enjoy running two trains through banked, superelevated curves! For even more trains, place this set inside the V11 Double Track Set.



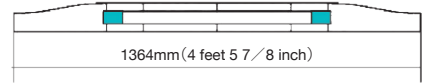
20-873 \$180.00

- WS248PC .....7pcs
- WS124PC .....1pc
- WS62PC .....1pc
- WS62FPC .....1pc
- R315 / 282-45PC .....8pcs
- WR315 / 282-22.5PCAL .....4pcs
- WR315 / 282-22.5PCAR .....4pcs

## V15 Double Track Set for Station



Use this set to build a station platform into your double track set.



Related product: End base x 2

Tracks to extend the station



Straight track 248mm x 4

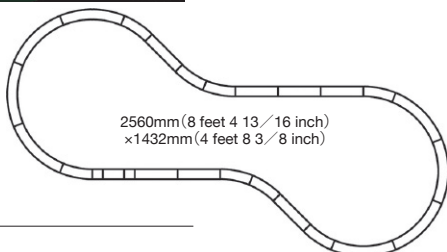
20-874 \$65.00

- WA310PC-L .....1pc
- WA310PC-R .....1pc
- S124PC .....4pcs
- S248PC .....4pcs
- End Base .....2pcs

## V16 Double Track Outer Loop Set R480 / 447 (17 5 / 8'-19")



Outside Double Loop for the V11 Set



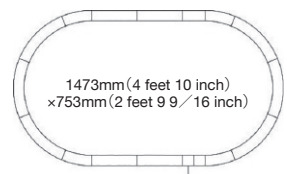
20-876 \$210.00

- ES248PC .....7pcs
- WS124PC .....1pc
- ES62PC .....1pc
- WS62FPC .....1pc
- WR480 / 447-45PC .....8pcs
- WR480 / 447-22.5PCAL .....4pcs
- WR480 / 447-22.5PCAR .....4pcs

## V17 Concrete Slab Double Track Oval Set R414 / 381 (15'-16 3 / 8")



Concrete Slab Roadbed Loop Tracks can represent an Urban Subway Scene



20-877 \$90.00

- WS248S .....4pcs
- WS124S .....1pc
- WS62S .....1pc
- WS62FS .....1pc
- WR414 / 381-45S .....6pcs
- WR414 / 381SAL .....2pcs
- WR414 / 381SAR .....2pcs

# N UNITRACK Standards & Measurements

The unique design of Kato's UniJoiners makes UNITRACK extremely easy to use, with the patented design of the removable clips securely holding each segment of modular track together in a way that minimizes uneven rail heights and maximizes electrical conductivity. Whether you're setting up your track to operate in hours-long sessions before putting it all away again or permanently affixing your track to a board to decorate with scenery, Kato UNITRACK is the best way to guarantee that you'll be spending time operating trains - not maintaining your track!

## Explanation of abbreviations

The front letter indicates the track type.  
The letter "W" at the front of the designation indicates that the part is double track.

The number indicates the length (in mm) of a straight track, or the radius (in mm) & angle of a curved track.

# S62F

The trailing letter indicates a track direction or specification.

**Example** S62F indicates a 62mm straight track with a feeder.

S	Straight Track
R	Curved Track
EP	Electric Turnout
HP	Manual Turnout
Wx	Double Crossover Turnouts
Sx	Single Crossover Turnouts
x	Crossing Track
W~	Double Tracks
WA	Double Widening Tracks

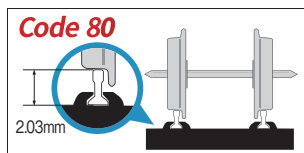
S, Sx, Wx, WA followed by numbers indicates the length of the straight track.

R followed by numbers indicates the radius & angle of the curved track.

EP followed by numbers indicates the radius & angle of the turnout track. (Example: EP718-15 indicates an electric turnout with 718mm radius & 15 degree curve.)

x followed by numbers indicates the angle of the crossing track. (Example: x15L indicates a crossing track with a 15 degree left angled crossing.)

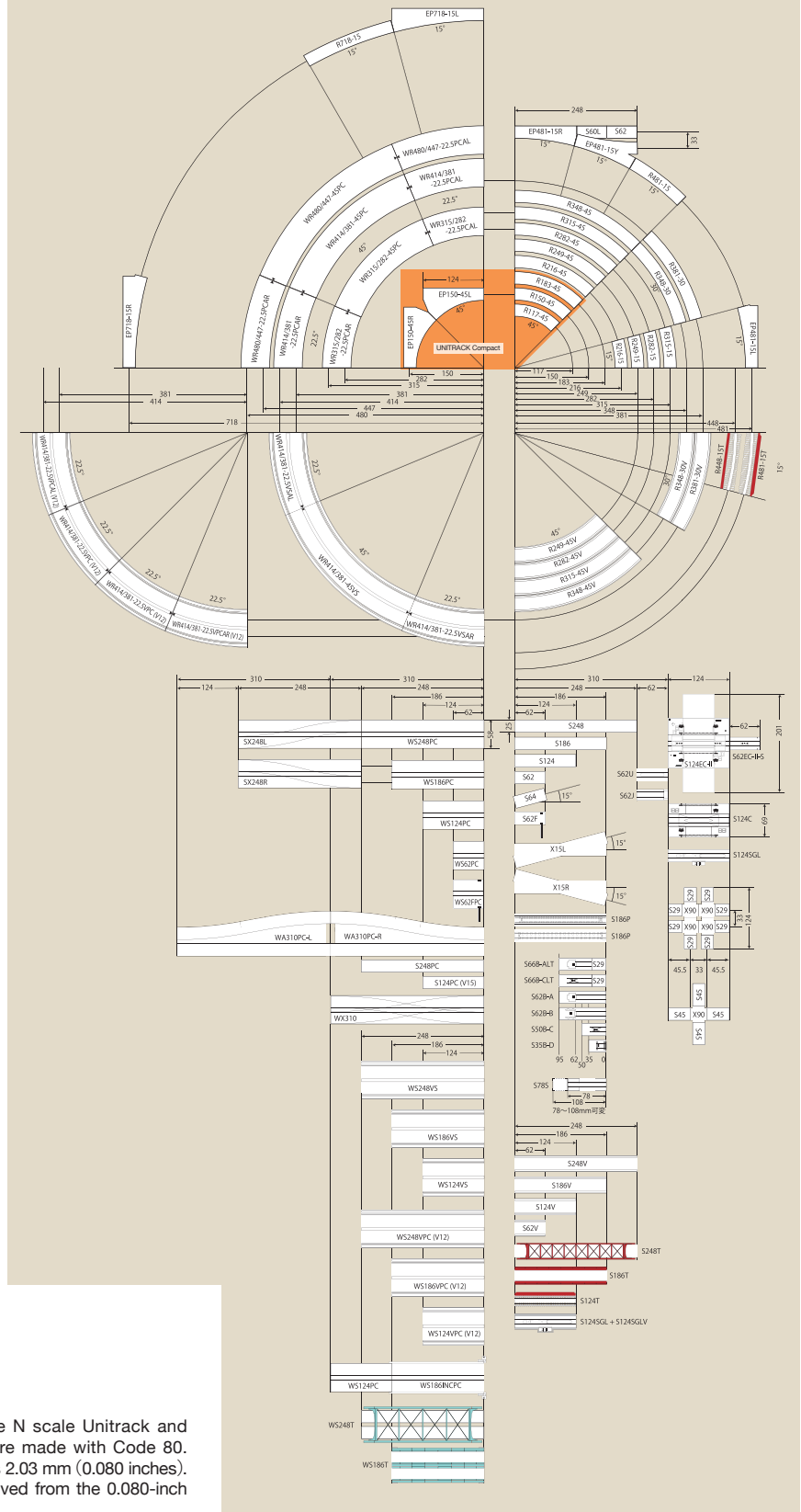
B	Bumper Track
C	Road Crossing Track
F	Feeder Track
AL	Approach Track for Left Side
AR	Approach Track for Right Side
J	Joint Track
L	Left Direction on the turnout or crossing tracks
R	Right Direction on the turnout or crossing tracks
S	Expansion Track
T	Bridge
U	Uncoupling Track
V	Viaduct Track
Y	Wye Turnout
PC	Concrete Tie Track
W~S	Double Slab Track
P	Pit Track
LT	Track with Light



The rails of the N scale Unitrack and Fixed Tracks are made with Code 80. The rail height is 2.03 mm (0.080 inches). Code 80 is derived from the 0.080-inch rail height.

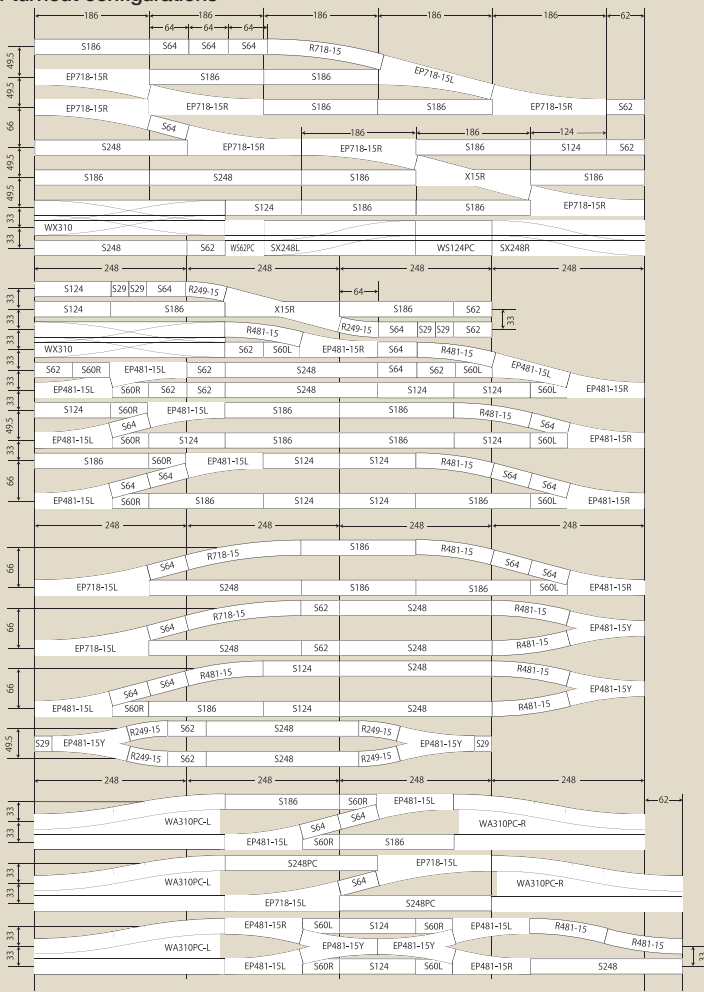
## UNITRACK Standards & Measurements

※All measurements are in mm.

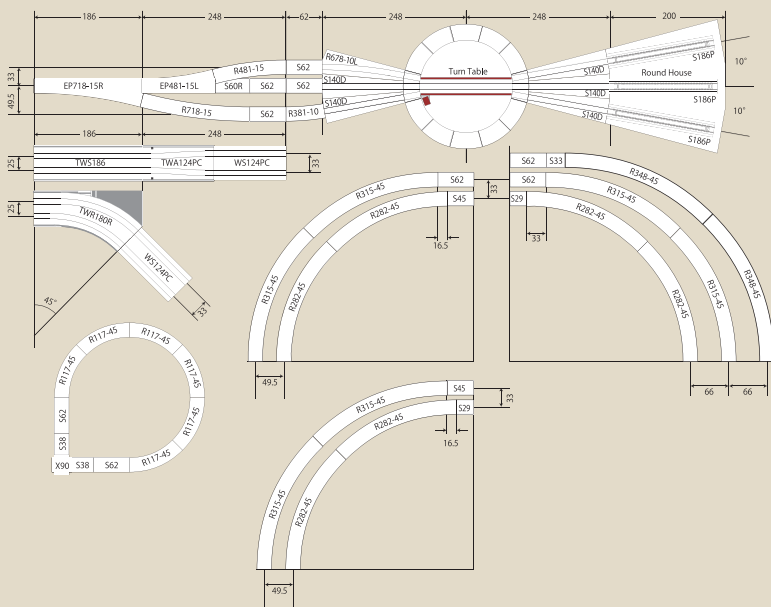




## Examples of turnout configurations

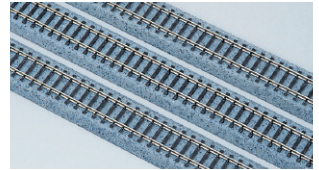


## Examples of electric turntable, UNITRAM, and assortment track configurations

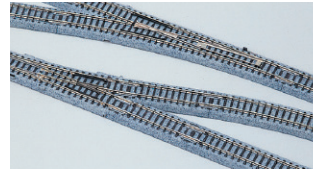


※All measurements are in mm.

## Advantages of Kato UNITRACK



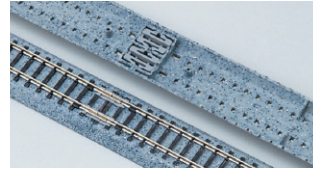
Realistic form and colors



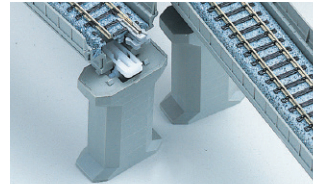
Smooth operation and natural curve on the turnouts



Plug-in wiring with specific connectors



Secure & flexible connection with patented Unjoiners



Piers with specific joints for enhanced security



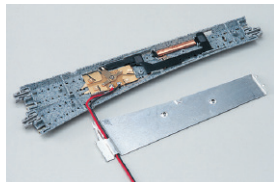
Correctly represented slab tracks on Double Track Viaduct & Double Track Slab Roadbed products



Modern concrete ties on Double Track roadbeds



Possible to connect with Flexible Track (without roadbed)



Turnout mechanisms are built into the roadbed


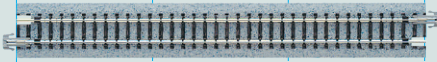
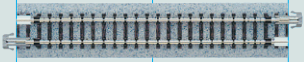

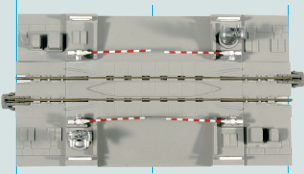
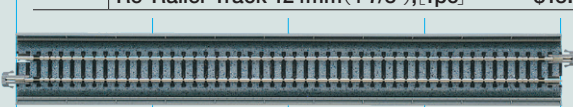
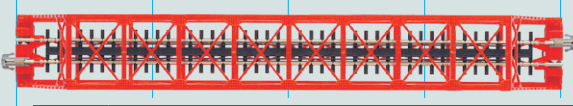
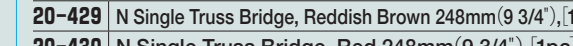
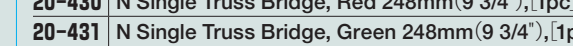
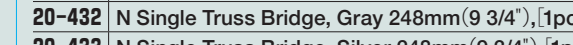
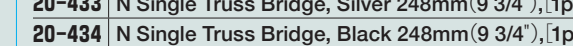

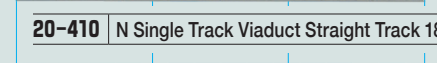


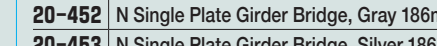
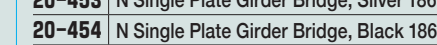

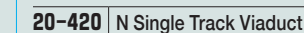


Superelevated curves on Double Track Viaduct, Double Track, and Double Track Slab Roadbed products

# N UNITRACK Single Straight Tracks

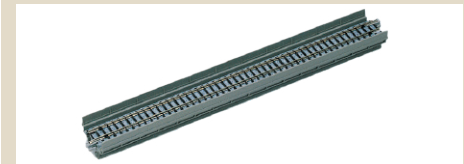
UNITRACK Straight Tracks are based on the standard length of 248mm(9 3/4"), and other tracks are standardized variations in the length of 1/4, 1/2, and 3/4 of 248mm (9/ 3/4") . Crossing, Signal, and Viaduct products are the same standards, so it makes as simple a connection as playing with blocks. Viaduct products have a specific joiner named the "S Joiner" for secure connection with the pier products.

## ●Straight / Single Straight Tracks

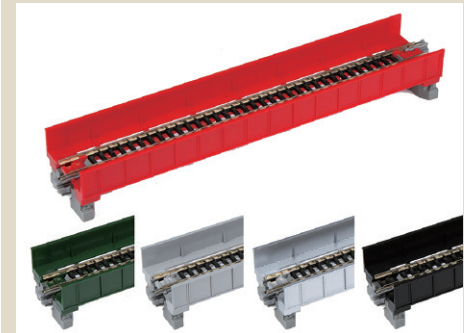
	0	32	124	186	248
					
<b>20-000</b>	N Straight Track 248 mm(9 3/4"),[4pcs]				\$12.00
					
<b>20-010</b>	N Straight Track 186mm(7 5/16"),[4pcs]				\$10.00
					
<b>20-020</b>	N Straight Track 124mm(4 7/8"),[4pcs]				\$9.50
					
<b>20-026</b>	N Re-Railer Track 124mm(4 7/8"),[2pcs]				\$7.00
					
<b>20-027-1</b>	N Crossing Gate & Re-Railer Track 124mm(4 7/8"),[1pc]				\$18.00
					
<b>20-400</b>	N Single Track Viaduct Straight Track 248mm(9 3 / 4"),[2pcs]				\$13.50
					
<b>20-429</b>	N Single Truss Bridge, Reddish Brown 248mm(9 3/4"),[1pc]				\$15.00
					
<b>20-430</b>	N Single Truss Bridge, Red 248mm(9 3/4"),[1pc]				\$14.00
					
<b>20-431</b>	N Single Truss Bridge, Green 248mm(9 3/4"),[1pc]				\$14.00
					
<b>20-432</b>	N Single Truss Bridge, Gray 248mm(9 3/4"),[1pc]				\$14.00
					
<b>20-433</b>	N Single Truss Bridge, Silver 248mm(9 3/4"),[1pc]				\$14.00
					
<b>20-434</b>	N Single Truss Bridge, Black 248mm(9 3/4"),[1pc]				\$14.00
					
<b>20-410</b>	N Single Track Viaduct Straight Track 186mm(7 5/16"),[2pcs]				\$13.00
					
<b>20-450</b>	N Single Plate Girder Bridge, Red 186mm(7 5/16"),[1pc]				\$13.50
					
<b>20-451</b>	N Single Plate Girder Bridge, Green 186mm(7 5/16"),[1pc]				\$13.50
					
<b>20-452</b>	N Single Plate Girder Bridge, Gray 186mm(7 5/16"),[1pc]				\$13.50
					
<b>20-453</b>	N Single Plate Girder Bridge, Silver 186mm(7 5/16"),[1pc]				\$13.50
					
<b>20-454</b>	N Single Plate Girder Bridge, Black 186mm(7 5/16"),[1pc]				\$13.50
					
<b>20-420</b>	N Single Track Viaduct Straight Track 124mm(4 7/8"),[2pcs]				\$12.50



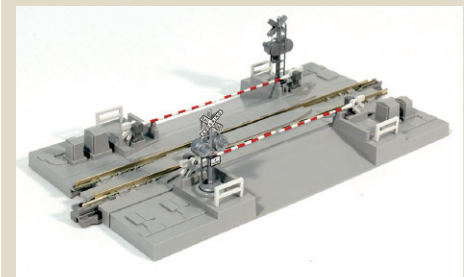
N Re-Railer Track 124mm (4 7/8")



N Single Track Viaduct Straight Track 248mm (9 3/4")



**20-450 Red / 20-451 Green / 20-452 Gray / 20-453 Silver / 20-454 Black**  
N Single Plate Girder Bridge, 186mm (7 5/16")



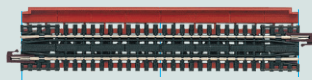
N Crossing Gate & Re-Railer Track 124mm (4 7/8")



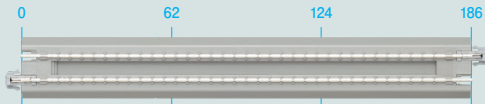
**20-429 Reddish Brown / 20-430 Red / 20-431 Green / 20-432 Gray / 20-433 Silver / 20-434 Black**  
N Single Truss Bridge, 248mm (9 3/4")

When Straight Truss Bridge products are connected to Single Curved Viaduct products directly, some cars or locomotives may make contact with the bridge, in that case, please insert a Single Straight Viaduct product (S62V or S124V) on each side of the bridge.

# N UNITRACK Single Straight Tracks



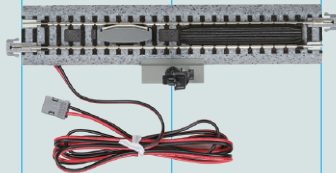
20-460	N Deck Girder Bridge, Red 124mm(4 7/8"), [1pc]	\$12.00
20-461	N Deck-Girder Bridge, Green 124mm(4 7/8"), [1pc]	\$12.00
20-462	N Deck-Girder Bridge, Gray 124mm(4 7/8"), [1pc]	\$12.00
20-464	N Deck Girder Bridge, Black 124mm(4 7/8"), [1pc]	\$12.00



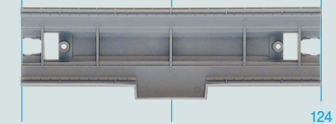
20-015	N Ashpit Track 186mm(7 5/16"), [2pcs]	\$7.00
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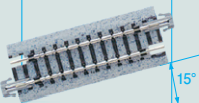
20-016	N Open Pit Track 186mm(7 5/16"), [4pcs]	\$18.00
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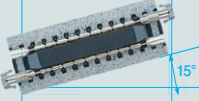
20-605-1	N 3-Color Automatic Signal-USA 124mm(4 7/8"), [1pc]	\$46.50
※For operating this signal, (N)Automatic Signal Power Supply (sold separately) is necessary.		



20-421	N Single Viaduct 124mm(4 7/8"), [1pc]	\$2.50
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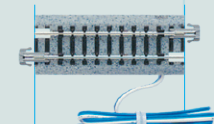
20-030	N Straight Track 64mm(2 1/2"), [2pcs]	\$5.50
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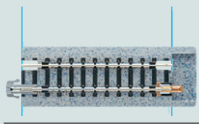
20-032	N Mag. Uncoupler Track 64mm(2 1/2"), [1pc]	\$7.50
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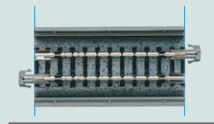
20-040	N Straight Track 62mm(2 1/2"), [4pcs]	\$9.00
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20-041	N Feeder Track 62mm(2 1/2"), [1pc]	\$7.00
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20-045	N Snap-Track Conversion Track 62mm(2 1/2"), [2pcs]	\$5.50
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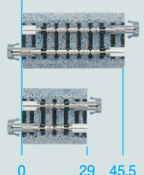


20-440	N Single Track Straight Viaduct Track 62mm(2 1/2"), [2pcs]	\$12.50
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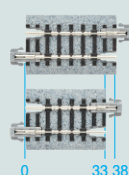
## ●Tracks for length adjustment



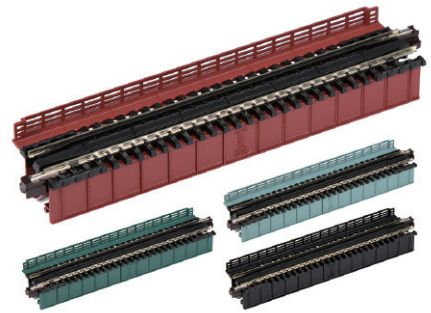
20-050	N Expansion Track 78-108mm (3 to 4 1/4"), [1pc]	\$8.25
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20-091	N Track Assortment 29mm(1 1/8"), [8pcs], 45.5mm(1 3/4"), [2pcs]	\$18.00
2 pieces of Straight Track 45.5mm (1 13/16"), and 8 pieces of Straight Track 29mm (1 1/8") are included in this set.		



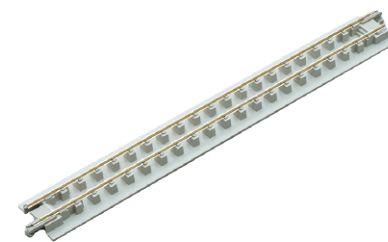
20-092	N Adjustment Track Set B: 33mm(1 5/16"), [4pcs], 38mm(1 1/2"), [4pcs]	\$18.00
4 pieces each of Straight Track 33mm (1 5/16") and Straight Track 38mm (1 1/2") are included in this set.		



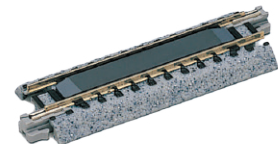
20-460 Red / 20-461 Green / 20-462 Gray / 20-464 Black  
N Deck Girder Bridge, Red 124mm (4 7/8")



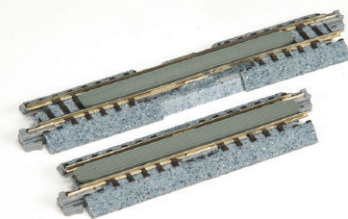
N Ashpit Track 186mm (7 5/16")



N Open Pit Track 186mm (7 5/16")

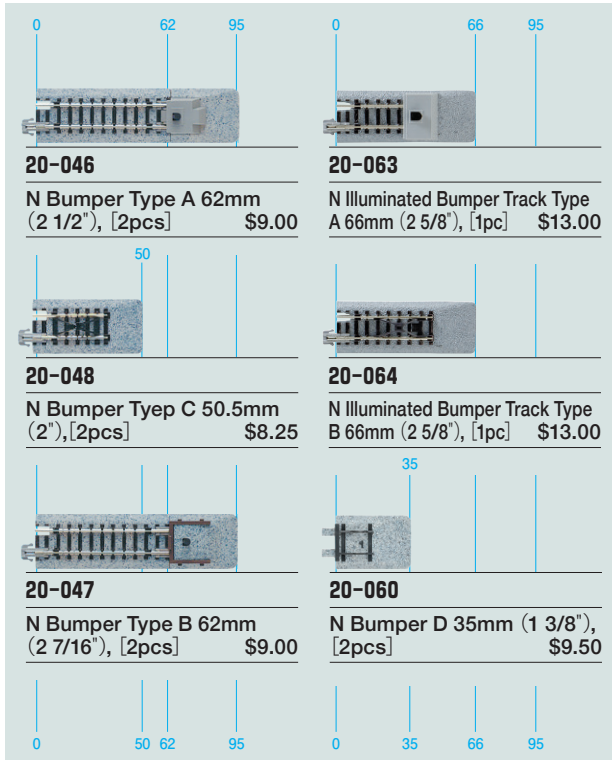


N Mag. Uncoupler Track 64mm (2 1/2")



N Expansion Track 78-108mm (3 to 4 1/4")

# N UNITRACK Bumper Track / Automatic Crossing Gate



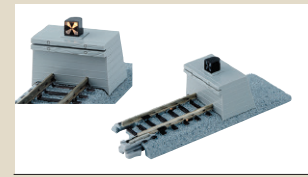
Bumper Track A is a concrete block type, B is a ballast type, C is a frame type, D is a bent rail type. Bumper Track C can be made to be the same length as other types of bumper tracks by connecting with a 45mm (1 3/4", included in the #20-091 Track Assortment Set). For the lighted type bumper tracks, the lights are turned on when an electric current goes through the rails, and the dimensions are the same as the A & C type Bumper Tracks.

## ■ Bumper Tracks

Bumper Tracks are good for representing the track end. There are 4 types of selections depending on the scene.



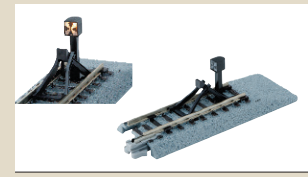
**20-046**  
N Bumper Type A 62mm (2 1/2"), [2pcs] \$9.00



**20-063**  
N Illuminated Bumper Track Type A 66mm (2 5/8"), [1pc] \$13.00



**20-048**  
N Bumper Type C 50.5mm (2"), [2pcs] \$8.25



**20-064**  
N Illuminated Bumper Track Type B 66mm (2 5/8"), [1pc] \$13.00

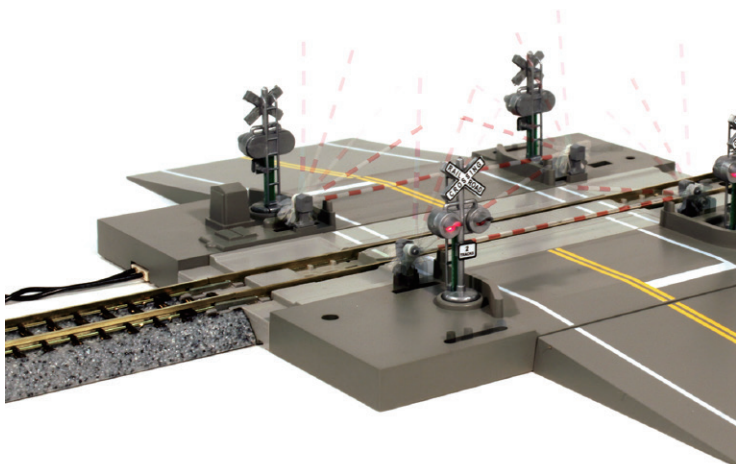


**20-047**  
N Bumper Type B 62mm (2 7/16"), [2pcs] \$9.00



**20-060**  
N Bumper D 35mm (1 3/8"), [2pcs] \$9.50

## Automatic Crossing Gate

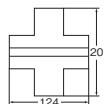


The UNITRACK Automatic Crossing Gate brings the fun of "Train operation" with realistic lights, sounds, and motions. It features fully automated blinking lights, sounds, and gates opening and closing. The Automatic Crossing Gate follows the N scale UNITRACK standards in its dimensions. The AC power supply can be connected directly to the main crossing track, and the cable of the sensor track can also be connected through the underside of the roadbed to eliminate wire exposure. The sensor track uses an infrared sensor, and it can detect objects even when the track power is off.

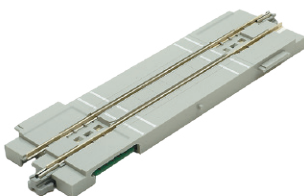
The crossing track is DCC friendly. There are 4 types of crossing sounds fitting any railroad scenes in the U.S., and the sound volume is adjustable.

**20-652-1** N North American Style Automatic Crossing Gate 124mm (4 7/8"), [1pc] \$220.00

A set to assemble a crossing with a single 124 mm-long track. Includes the crossing itself, two sensor tracks (total length 62 mm), and an AC adapter.



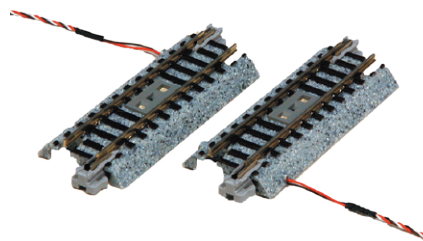
With the optional #20-653 Double Track Attachment Set for the Automatic Crossing Gate, tracks can be expanded to 3 double tracks (6 tracks).



**20-653**  
N Double Track Attachment Set for Automatic Crossing Gate 124mm (4 7/8"), [1pc] \$78.00

Used for track expansion of the crossing gate with maximum 3 double tracks (6 tracks).

Crossing Track × 1 piece,  
Sensor Track × 2 pieces.  
33mm (1 5/16") × 124mm (4 7/8")



▲N sensor track 62mm (2 1/2")



**20-654**  
Sensor Track Extension Cable [1yard] for 20-652-1 \$9.50

Used in case of the shortage in length of the cable of the sensor track.

# N UNITRACK Viaduct Piers / Automatic Signal

**Viaduct Piers** ※ Can be used for Double Track Viaduct products (on Page 19) . ※ There are also Double Track Viaduct Piers available.



**23-015**  
N Pier Set, No 1 - No 5  
(2ea) \$13.00

2 pieces each for Pier #1 through #5. 2 pieces of end stairway. (item number 23-015-1)



**23-016**  
N Gradual Incline Pier Set  
\$11.00

Use in combination with the Inclined Pier Basic Set. Suitable to use for the middle brace of the Single Viaduct Curved Track R348 (13 11/16") -45d, and other use to represent realistic positioning of the piers.



**23-017**  
N Pier w /  
S-Joiner & S-Clip [5pcs],  
50mm (2") \$8.00

Standard height piers at 50mm (2") (item number 23-017-1)



**23-047**  
Single Track Bridge Pier #5  
[5pcs], 50mm (2") \$13.00

Oval shaped piers used in rivers or streams. Designed for the Single Deck Girder Bridge, but can be used with other bridge and viaduct products as well.



**23-069**  
N Pier Raising Kit with  
Trapezoid Shape [5pcs],  
50mm (2") \$13.00

Fits nicely to the Single Deck Girder Bridge. Includes 5 pieces of inspection deck parts, and 5 pieces of catenary pedestal for #23-047 Single Track Bridge Pier #5.



**23-068**  
N Pier Raising Kit with  
Trapezoid Shape [5pcs]  
\$13.00

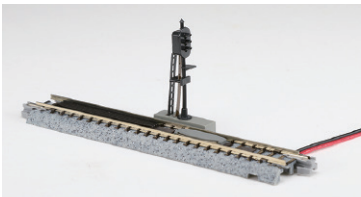
A set with 3 components of the upper expansion piers, lower expansion piers, and pedestals. 5 pairs in the set. Used with a combination with #23-069 Single Track Bridge Pier #5 with Trapezoid Shape to expand the height of piers with 90mm (3 9/16") and 110mm (4 5/16") . (Height of the roadbed bottom is an additional 10mm.)



**24-817**  
N S-Joiner [20pcs]  
\$5.00

Used for connection to bridges, piers, viaducts.

## Automatic Signal



**20-605-1**  
N 3-Color  
Automatic Signal,  
1set \$46.50

Same length as 124mm (4 7/8") Straight Track with a space for the signal on the left side.

When the train passes, it turns from green to red, and after few seconds, it automatically turns to yellow, and back to green. The sensor is a flange touching type for secure operation.

※ Flange touching does not work with plastic wheels.



**24-844**  
Automatic Signal Power Supply,  
1set \$23.50

A power supply for the Automatic Signal. 3 signal outlets in one power supply. Simplifies wiring by connecting same colored wires & same shaped connectors.



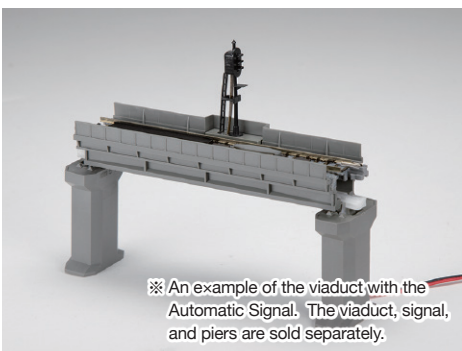
**24-845**  
Signal Extension Cord  
(1yd), [1pc] \$3.25

An expansion cable for the signal and signal power supply with 90cm (2' 11 7/16") of length.



**24-829**  
Accessory Adapter  
for 22-014 Power  
Pack [1pc] \$7.25

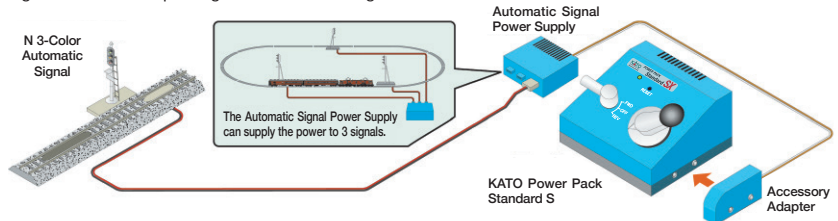
A power supply for the Automatic Signal. Snap-on to the side terminal on the Power Pack.



※ An example of the viaduct with the Automatic Signal. The viaduct, signal, and piers are sold separately.

**20-421**  
N Single Viaduct for Signal 124mm (4 7/8"), [1pc] \$2.50

A specific viaduct for the Automatic Signal when it is connected with viaduct track products. It has space for the signal and a hole for passing the wire from the signal.



## Operation of the Automatic Signal



① Turning from Green to Red when the wheels touch the sensor.



② Turning from Red to Yellow 3 seconds after the train has passed.



③ Turning from Yellow to Green after a further 3 seconds.



④ If the train runs backward, the Red light is automatically turned on. When the train is stopped or no power is on the rails, the Green light is automatically turned on.

# UNITRACK Single Curved Tracks

UNITRACK curves use Curve R315 (radius of the track's center line: 315 mm) as a base. According to this, there are six curved tracks inside R315 available, two outside, and two more support curves for turnouts outside, each with 33 mm spacing between parallel track centers.

Furthermore, thanks to five single viaduct curved tracks, elevating your layout to the next level is easy.

- **Curve R718-15°** is a support track for Turnout #6 (EP718-15L/EP718-15R). It can also be used for transition curves or when a curve with an especially big radius is needed.
- **Curve R481-15°** is a support track for Turnout #4 (EP718-15L/EP718-15R). It can also be used for transition curves. Additionally, when connecting two parallel tracks to each other, the distance between the track centers can be changed from 33 to 66 mm.
- **Use Curve R348-30°** and R381-30° to create a more realistic looking N Scale scene or when running high speed trains like the Kato ACS-64.
- **Curve R315-45°** is the track that serves as the base radius for all curves. It is also included in Starter Sets and Master Sets.
- **With Curves R216-45°** to R348-45° you can set up 5 tracks in steps of 45°.
- **Curves R183 and smaller** (marked orange in the graph) are part of UNITRACK Compact, which gives you even more freedom when creating your layout plans. Please note that not all trains can pass these curves.
- Curves R315-15°, R282-15°, R249-15°, and R216-15° can be combined with R381-30° and R348-30° to create quadruple-track and even sextuple-track railways. They also come in handy when you want to change your layout plan.
- When connecting two **R249-15°** curves parallel to each other, the distance between the track centers can be changed from 33 to 49.5 mm.
- With the single viaduct curved tracks R249-45° to R348-45°, you can set up quadruple tracks in steps of 45°. For steps of 90°, you can add Viaduct Curve R381-30° for up to five tracks.
- Use Viaduct Curve R348-30° and R381-30° to create more realistic looking viaduct railways or when running high speed trains like the Kato ACS-64.
- For Viaduct Curve R348-45°, use the piers from Pier No.5 50 mm and the Incline Pier sets to support the central viaduct tracks.
- Single viaduct curved tracks, like their straight counterparts, can be firmly connected to other viaduct tracks and piers with an S-Joiner.
- Deck Girder Curve R448-15° and R481-15° are curved bridges based on our already existing Deck Girder Curved Bridges. Just like those, these items also come in the three colors: red, green, and gray. They are perfect for use with Cone-shaped Pier No. 5 for Single-Track Bridge, Conic Pier Height Adjusting Kit, and Single Track Warren Brace Catenary Pole.

Single Track Deck Girder Bridge  
Left: R481-15° (Green)  
Right: R448-15° (Green)



## ● Single Curved Tracks

For item numbers, names, and prices, please see the list on the next page.

Remember:  
The default distance between the centers of parallel UNITRACK tracks is 33 mm!

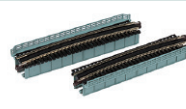


Same radius as the branch track of Elec. Turnout #6

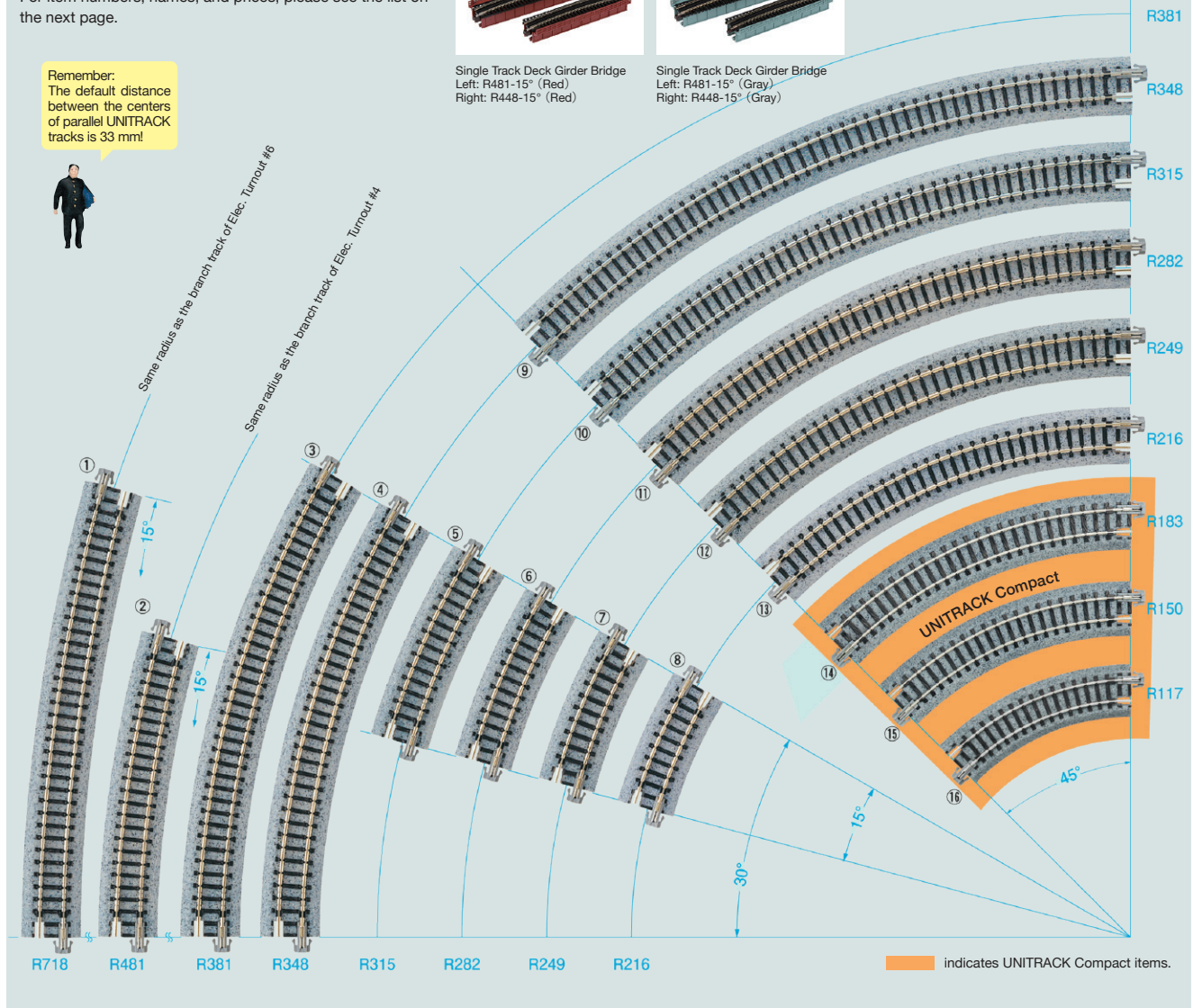
Same radius as the branch track of Elec. Turnout #4



Single Track Deck Girder Bridge  
Left: R481-15° (Red)  
Right: R448-15° (Red)



Single Track Deck Girder Bridge  
Left: R481-15° (Gray)  
Right: R448-15° (Gray)



Indicates UNITRACK Compact items.

# UNITRACK Curved Tracks & Single Viaduct Curved Tracks

## Single Curved Tracks / Single Viaduct Curved Tracks

item number	item name	abbreviation	price	photo
20-176	Compact Curve Track R117mm	R117-45	\$11.00	16
20-174	Compact Curve Track R150mm	R150-45	\$11.00	15
20-172	Compact Curve Track R183mm	R183-45	\$11.00	14
20-170	Curved Track R216-45 (4 Pcs.)	R216-45	\$10.00	13
20-171	Curved Track R216-15 (4 Pcs.)	R216-15	\$9.50	8
20-100	R249-45 Curved Track (4 Pcs.)	R249-45	\$10.00	12
20-101	R249-15 Curved Track (4 Pcs.)	R249-15	\$9.50	7
20-110	R282-45 Curved Track (4 Pcs.)	R282-45	\$11.00	11
20-111	R282-15 Curved Track (4 Pcs.)	R282-15	\$10.50	6
20-120	R315-45 Curved Track (4 Pcs.)	R315-45	\$11.00	10
20-121	R315-15 Curved Track (4 Pcs.)	R315-15	\$10.50	5
20-130	R348-30 Curved Track (4 Pcs.)	R348-30	\$11.50	4
20-132	R348-45 Curved Track (4 Pcs.)	R348-45	\$13.00	9
20-140	R381-30 Curved Track (4 Pcs.)	R381-30	\$11.50	3
20-150	R718-15 Curved Track (4 Pcs.)	R718-15	\$11.50	2
20-160	R481-15 Curved Track (4 Pcs.)	R481-15	\$9.50	1
20-505	R249-45 S. Track Curved Viaduct (2 Pcs.)	R249-45V	\$13.50	17
20-510	R282-45 S. Track Curved Viaduct (2 Pcs.)	R282-45V	\$14.00	18
20-520	R315-45 S. Track Curved Viaduct (2 Pcs.)	R315-45V	\$14.00	19
20-530	R348-45 S. Track Curved Viaduct (2 Pcs.)	R348-45V	\$14.50	20
20-531	R348-30 S. Track Curved Viaduct (2 Pcs.)	R348-30V	\$13.50	21
20-540	R381-30 S. Track Curved Viaduct (2 Pcs.)	R381-30V	\$13.50	22
20-465	Deck Girder Curve Bridge Red	R448-15ST	\$15.00	23
20-466	Deck Girder Curve Bridge Green		\$15.00	
20-467	Deck Girder Curve Bridge Gray		\$15.00	
20-470	Curve Deck Girder Bridge Red R481-15°	R481-15ST	\$15.00	24
20-471	Curve Deck Girder Bridge Green R481-15°		\$15.00	
20-472	Curve Deck Girder Bridge Gray R481-15°		\$15.00	



### 20-823

Curve Bridge Set R448-60 Green \$95.00

#### ●Contents

- Single Curve Deck Girder Bridge R448-60° (green) × 4 /
- Cone-shaped Pier No. 5 for Single-Track Bridge × 5 /
- Single Track Warren Brace Catenary Pole × 12



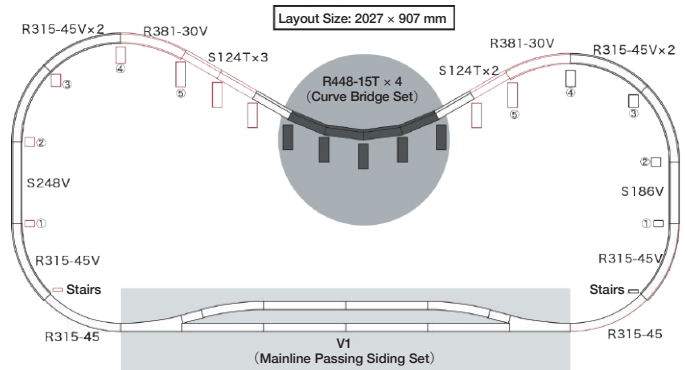
### 20-824

Curve Bridge Set R481-60° (Un-electrified, Red)

\$70.00

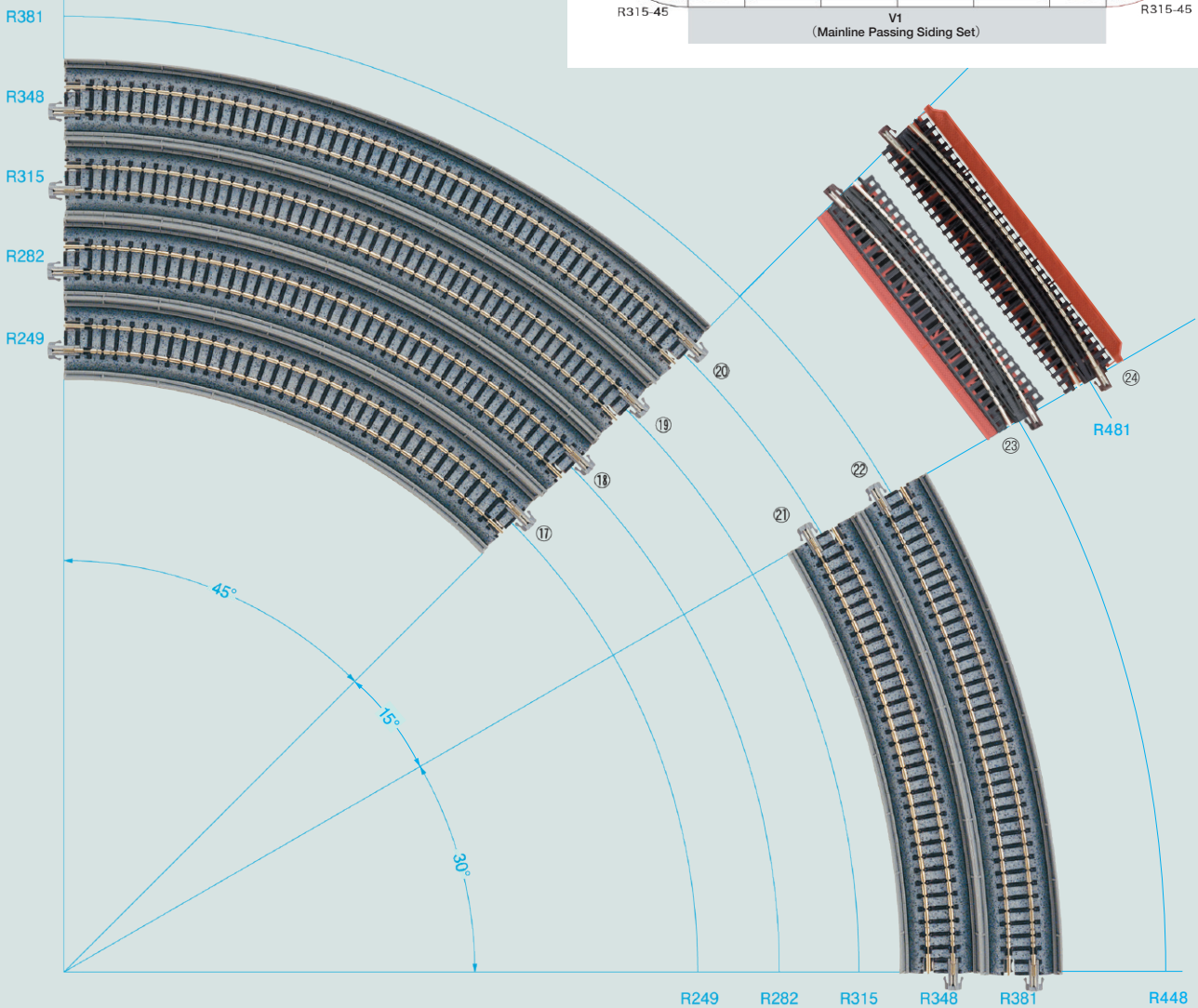
#### ●Contents

- Single Curve Deck Girder Bridge R481-15° (red) × 4 /
- Cone-shaped Pier No. 5 for Single-Track Bridge × 5 /
- 2 Joiner × 2



### ● Single Viaduct Curved Tracks

For the item numbers, names, and prices, please see the above list.



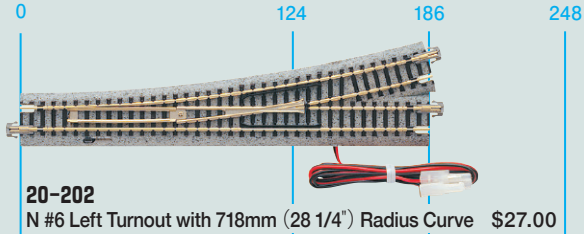
# N UNITRACK Turnouts / Crossing Tracks

Turnouts and crossing tracks will bring more fun to model railroad operation, and allow unlimited expansion on your track plans!

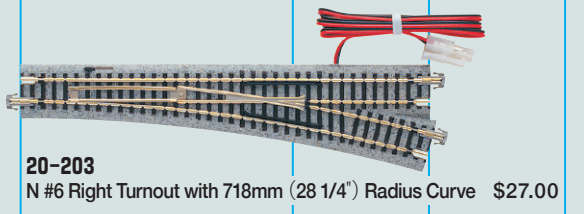
● Turnouts / Crossing Tracks

※To remotely control an Electric Turnout No. 4 / No.6 or a Double Crossover Track, a Turnout Control Switch is necessary.

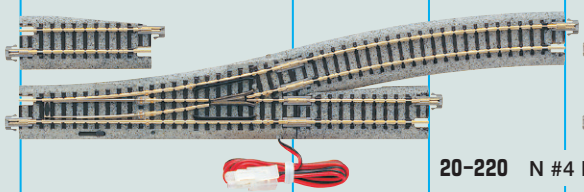
0 124 186 248



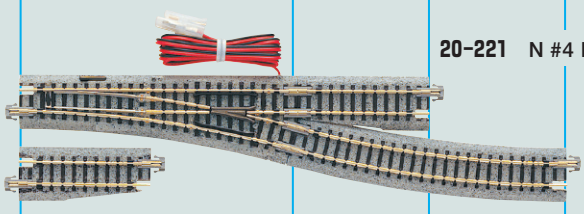
**20-202**  
N #6 Left Turnout with 718mm (28 1/4") Radius Curve \$27.00



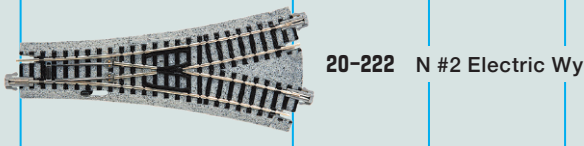
**20-203**  
N #6 Right Turnout with 718mm (28 1/4") Radius Curve \$27.00



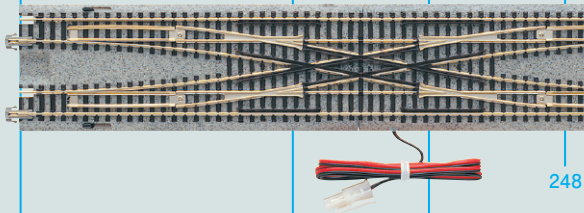
**20-220** N #4 Left Turnout with 481mm (19") Radius Curve \$37.50



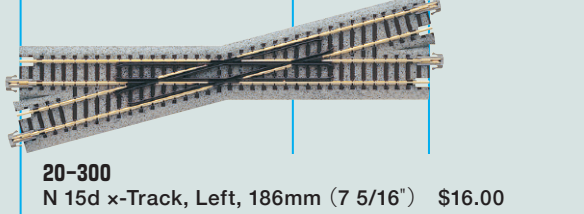
**20-221** N #4 Right Turnout with 481mm (19") Radius Curve \$37.50



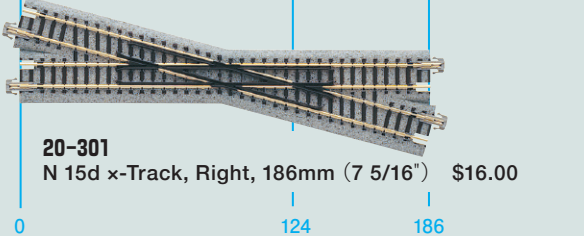
**20-222** N #2 Electric Wye Turnout with 481mm (19") Radius Curves \$32.00



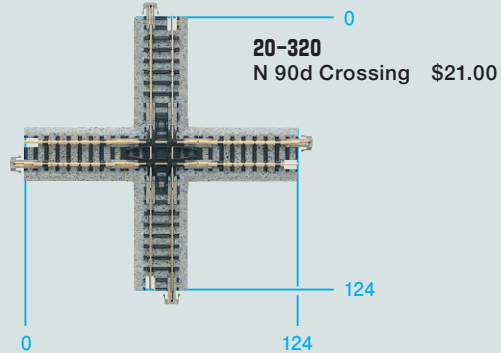
**20-210**  
N Double Crossover Track  
310mm (12 3/16") \$75.00



**20-300**  
N 15d x-Track, Left, 186mm (7 5/16") \$16.00

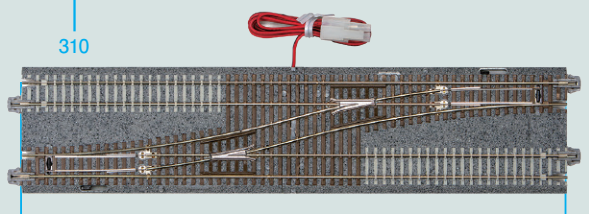


**20-301**  
N 15d x-Track, Right, 186mm (7 5/16") \$16.00

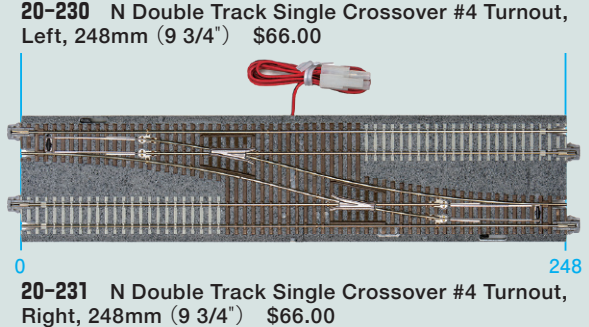


**20-320**  
N 90d Crossing \$21.00

Operate many kinds of trains with stations and yards!

**20-230** N Double Track Single Crossover #4 Turnout, Left, 248mm (9 3/4") \$66.00



**20-231** N Double Track Single Crossover #4 Turnout, Right, 248mm (9 3/4") \$66.00

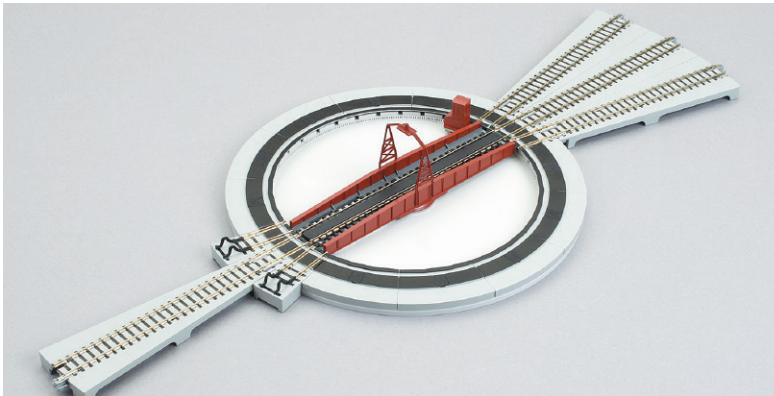


# N UNITRACK Electric Turntable / Related Products

During the steam era, turntables were built to rotate steam locomotives. These turntables could be found beside many train stations, freight yards, and maintenance shops.

The KATO N scale Electric Turntable guarantees not only prototypical appearance, but also perfectly functional motion.

## Electric Turntable



Length for a medium-sized locomotive



Specific controller for the turntable

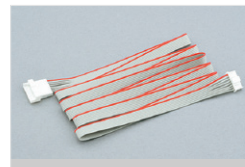


**20-283** Electric Turntable \$510.00

Representing the low depth type of the prototype, product's depth is 12mm (1/2") allowing for floor operation. Wiring is simple with connectors. The motion is controlled by an electronic circuit with one rotation per minute, and before stopping it will shift into a slower speed just like the prototype! The tracks are located with a 10-degree span to fit the separately sold #23-240 Roundhouse Kit. The product's diameter is 217mm (8 9/16"), and the turntable's diameter is 160mm (6 5/16").

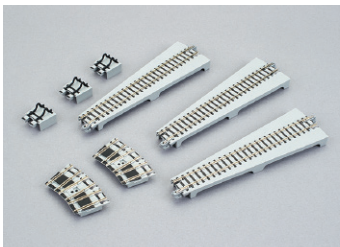
By adding the optional turntable extension track sets, it is possible to model a huge locomotive shop.

- Set Contents
- Turntable ● Turntable Controller
- AC Adapter Transformer ● Controller Cable / Jump Cable × 1 piece
- Straight Expansion Track × 4 pieces ● Approach Track for 3 Expansion Tracks × 2 pieces ● Bumper Rails × 6 pieces



**20-287**  
N Turntable Extension Cable  
150 cm (1 yd 2/3) \$23.50

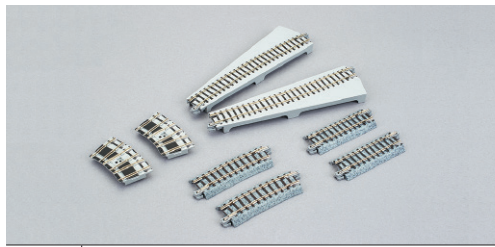
## Turntable Extension Track Set



**20-285** N Turntable Extension Track Set (Straight) \$21.50

Straight expansion tracks for the radial formation. 3 bumper rails on the opposite sides are included.

- Set Contents
- Straight Expansion Track × 3 pieces ● Approach Track for 3 Expansion Tracks × 2 pieces ● Bumper Rails × 3 pieces ● Unjoiner (Half) / Insulated Unjoiner (Half) × 6 pieces each

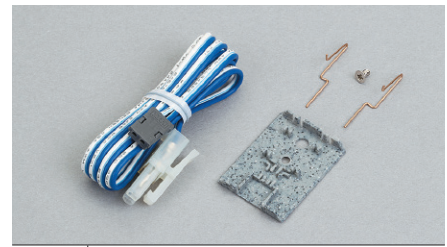


**20-286** N Turntable Extension Track Set (Curve) \$21.50

Curved expansion tracks for the UNITRACK double track span of 33mm (1 5/16"). Best for the use with #23-225 Wood 2-Stall Engine House Kit. With straight expansion tracks, it is possible to connect to the wider 49.5mm (1 15/16") double track span to be used with #23-229 Steam Engine Service Facility Set and #23-130 Rural Station Platform.

- Set Contents
- Curved Expansion Track (Left & Right) × 1 piece each ● R381 (15°) - 10 degree Curved Track × 2 pieces ● Curved Expansion Track × 1 each for Left and Right ● R381mm (15°) - 10 degree Curved Track × 2 pieces ● Single Straight Track 62mm (2 7/16") × 2 pieces ● Approach Track for 3 Expansion Tracks × 2 pieces ● Unjoiner (Half) / Insulated Unjoiner (Half) × 6 pieces each
- ※ For the R381mm (15°) - 10 degree Curved Tracks & Single Straight Tracks 62mm (2 7/16"), regular Unjoiners are attached.

## Extension Track Feeder Kit



**20-284** N Extension Track Feeder Kit \$11.00

Electric power feeder set for the turntable expansion tracks, and steady power feeding on DCC operation attaching to the bottom of the expansion track.

- Set Contents
- Power collecting pins × each for Left & Right, Bottom Lid, Screws, Feeder Cable (3 sets each)

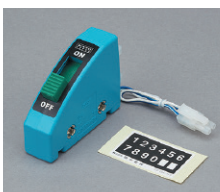
## Roundhouse Kit



● Stickers are attached to the product.

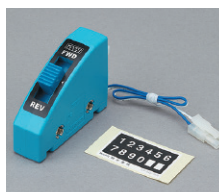
**23-240**  
N Roundhouse Kit \$59.00

## Power Feed Control Switch / Power Direction Control Switch



**24-850**  
Power Feed Control Switch [1 pc] \$24.00

A switch to turn the separate rail yards ON / OFF independently with the combination of Insulated Unjoiners and the Turntable Expansion Tracks.



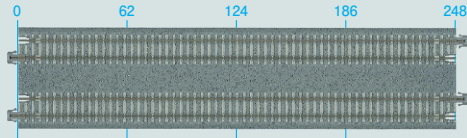
**24-851**  
Power Direction Control Switch [1 pc] \$25.50

A switch to change the direction of electric polarity by connecting to the Feeder Track.

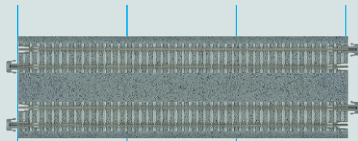
# N UNITRACK Double Tracks

Double tracks with concrete ties and superelevated curves are great for running multiple trains and modeling modern railroad scenes. These double tracks can be used not only for passing in each direction, but also to make unlimited track plans possible with other single track and double track viaduct products.

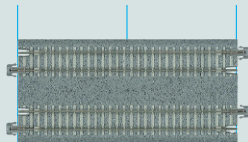
## ● Double Track Straight Tracks



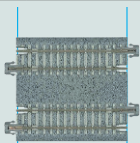
**20-004** N Double Track Straight 248mm (9 3/4"), [2 pcs] \$13.50



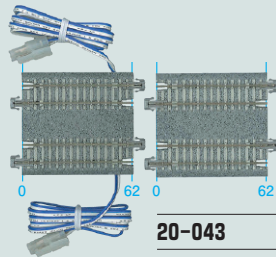
**20-012** N Double Track Straight 186mm (7 5/16"), [2 pcs] \$13.00



**20-023** N Concrete-tie Double track Straight 124mm (4 7/8"), [2 pcs] \$12.00

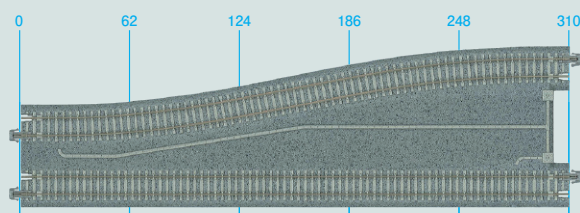


**20-042**  
N Double Straight Track  
Concrete-tie 62mm  
(2 1/2"), [2 pcs] \$11.00

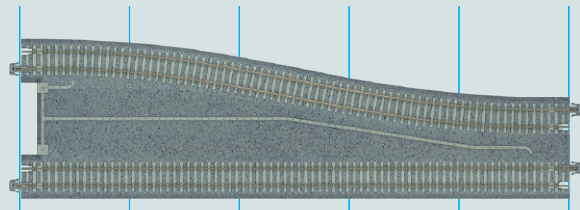


**20-043**  
N Double S. Track & Feeder  
Track Concrete-tie 62mm  
(2 1/2"), 1 set \$17.00

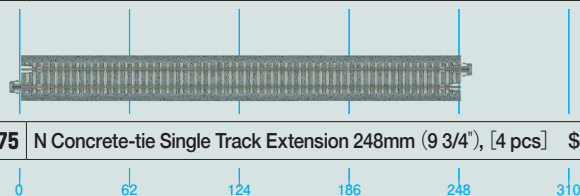
## ● Double Track Widening Sections



**20-051** N CT Double Track Widening Section Left 310mm (12 1/5"), [1 pc] \$18.00



**20-052** N CT Double Track Widening Section Right 310mm (12 1/5"), [1 pc] \$18.00



**20-875** N Concrete-tie Single Track Extension 248mm (9 3/4"), [4 pcs] \$10.50

● **Double Track Straight Track 248mm** (9 3/4") (WS248PC) is the basic length of the straight track.

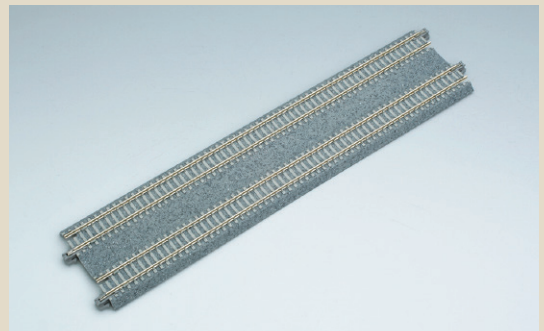
● **Double Track Straight Track 186mm** (7 5/16") (WS186PC) is 3/4 of the length of the (WS248PC).

● **Double Track Straight Track 124mm** (4 7/8") (WS124PC) is 1/2 of the length of the (WS248PC).

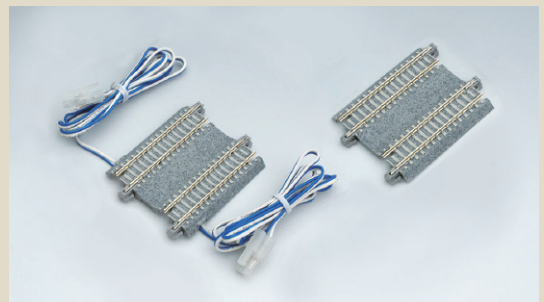
● **Double Track Feeder Track 62mm** (2 7/16") (WS62FPC) is a track to feed electricity from the power pack to the rails. Cable Length: 2' 9 15/32"

● **Double Track Widening Section Track 310mm** (12 3/16") (WA310PC-L/R) is a track to expand the double track span from 33mm (1 5/16") to 66mm (2 5/8") to approach island platforms.

● **Concrete Tie Single Extension Track 248mm** (9 3/4") is a track to extend the straight section in the island platform station, as well as a single straight track with concrete ties.



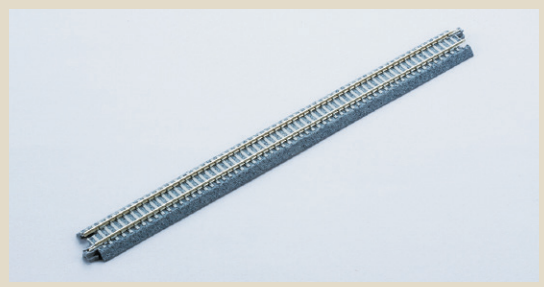
N Double Track Straight 248mm (9 3/4")



N Double S. Track & Feeder Track Concrete-tie 62mm (2 1/2")



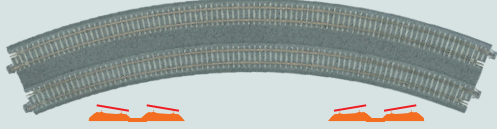
N CT Double Track Widening Section Left 310mm (12 1/5")



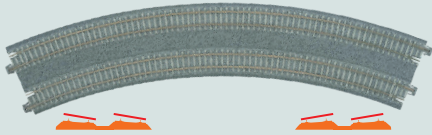
N Concrete-tie Single Track Extension 248mm (9 3/4")

# UNITRACK Double Tracks

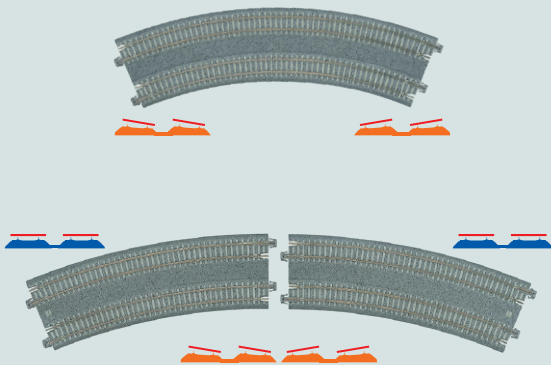
## ● Double Track Curved Track



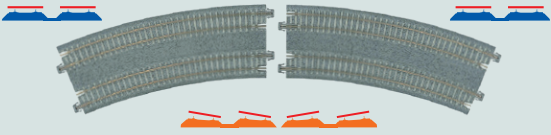
20-185 N Double Track Curved Track R480 / 447mm (17 7/8")-45d [2 pcs] \$19.00



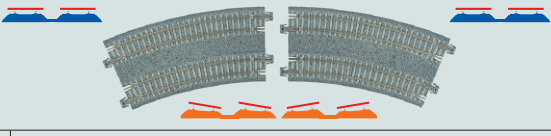
20-181 N Double Track Superelevated Curved R414 / 381mm (15 1/4")-45d [2 ea] \$15.00



20-186 N Double Track Approach Track R480 / 447mm (17 7/8")-22.5d [L & R set] \$16.00



20-182 N Double Track Superelevated Approach, R414 / 381mm (15 1/4") - 22.5d [L & R set] \$13.50



20-184 N Double Approach Track Set R315 / 282mm (11 1/4"), [L & R set] \$13.50

## How to connect the Superelevated tracks.

### How to make a half circle (180d)

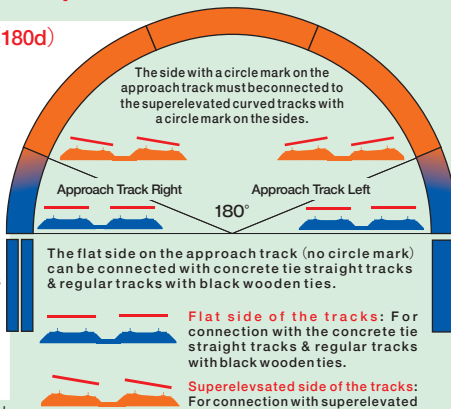
- Superelevated tracks --- 3 pieces
- Concrete tie approach tracks --- 1 pc. each of right & left

### How to make a complete circle (360d)

- Superelevated tracks --- 6 pieces (3sets)
- Concrete tie approach tracks --- Each 2 pieces of Right & Left (1 Set)

※For the case of creating an oval circle by adding straight tracks in between the approach tracks.

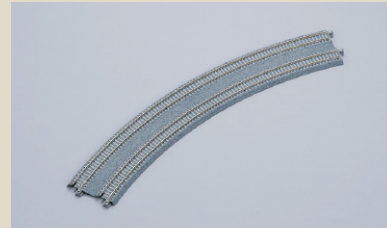
※The superelevation on the curved tracks can help your trains to navigate the curve but is not guaranteed to prevent derailments if you are operating your train too fast.



- Double Track Curved Tracks R480 / 447mm (18 7/8" / 17 5/8") -45d, R414/381mm (16 5/16" / 15") - 45d, and R315 / 282mm (12 3/8" / 11 1/8") -45d create 3 double tracks (6 tracks) with 45-degree separation.

- Double Track Approach Tracks R480 / 447mm (18 7/8" / 17 5/8"), R414/381mm (16 5/16" / 15"), and R315 / 282mm (12 3/8" / 11 1/8") with 22.5-degree connect the straight tracks with the superelevated curved tracks.

To add the catenary poles, please use Double Track Wide Catenary Poles (Item #23-062, 23-063).



N Double Track Curved Track R480 / 447mm (17 7/8")-45d



N Double Track Approach Track R480 / 447mm (17 7/8")-22.5d [L & R set]

## Play with multiple track lines!

# V11 + V16

With a combination of the V11 Double Track Set and V16 Outside Double Track Set, dynamic multiple track lines can be created for more attractive double track operation.



20-870 N V11 Double Track Set R414 / 381 (19"-15") \$185.00

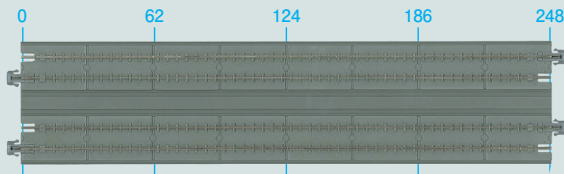


20-876 N V16 Double Track Outer Loop Set R480/447 (17 5/8"-19") \$210.00

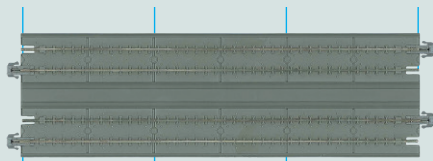
# N UNITRACK Double Track Slab Tracks

The slab track is often depicted in scenes of urban subways, high-speed trains, as well as in tunnels. They follow double track standards, and 4 types of straight tracks, R414 / 381mm ( 16 5/16" / 15") superelevated curve tracks (including the approach tracks), as well as a feeder track are available.

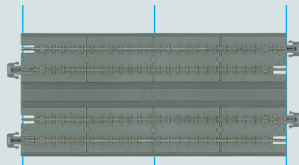
## ● Double Track Slab Straight Tracks



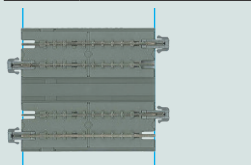
**20-006** N Double Track Slab Track Straight 248mm (9 3/4"), [2 pcs] \$14.00



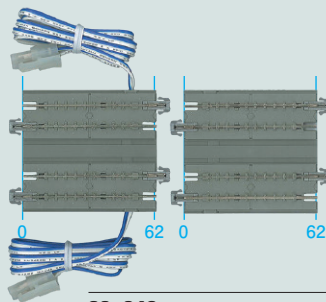
**20-014** N Double Track Slab Track Straight 186mm (7 5/16"), [2 pcs] \$13.00



**20-025** N Double Track Slab Track Straight 124mm (4 7/8"), [2 pcs] \$12.00

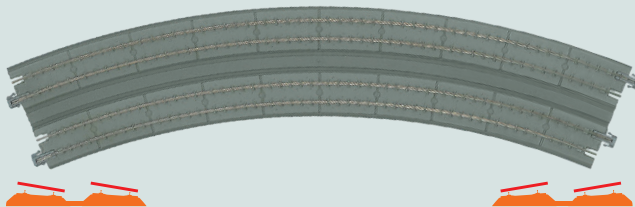


**20-044**  
N Double Track Slab  
Track Straight 62mm  
(2 1/2"), [2 pcs] \$11.00

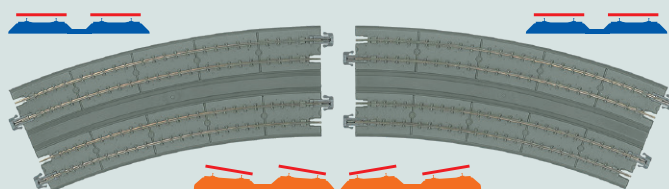


**20-049**  
N Double Track Slab Track &  
Feeder Track 62mm (2 1/2") set  
\$17.00

## ● Double Track Slab Superelevated Curve Tracks



**20-187** N Double Track Slab Track  
R414 / 381mm (15 15/16)-45d [2 pcs] \$15.00



**20-188** N Double Track Approach Slab Track  
R414 / 381mm (15 15/16)-22.5d, [L & R set] \$13.50

● Double Track Slab Straight Track 248mm (9 3/4") (WS248S) is the basic length of the straight track.

● Double Track Slab Straight Track 186mm (7 5/16") (WS186S) is 3/4 of the length of the (WS248PC) .

● Double Track Slab Straight Track 124mm (4 7/8") (WS124S) is 1/2 of the length of the (WS248PC) .

● Double Track Slab Straight Track 62mm (2 7/16") (WS62S) is 1/4 of the length of the (WS248PC) .

● Double Track Slab Feeder Track 62mm (2 7/16") (WS62FS) is a track to feed electricity from the power pack to the rails. Cable Length: 2' 9 15/32"

● Double Track Slab Curved Track R414 / 381mm (16 5/16" / 15") -45d (WR414 / 381-45S) is best for more realistic N scale model railroad scenes, and high-speed train operations on wider curves.

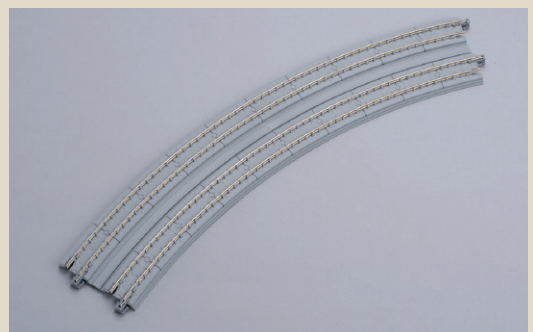
● Double Track Slab Approach Tracks R414 / 381mm (16 5/16" / 15") (WR414 / 381SAL, WR414 / 381SAR) are 22.5 degree curved tracks to connect the straight tracks with the superelevated curved tracks.



N Double Track Slab Track Straight 248mm (9 3/4")



N Double Track Slab Track & Feeder Track 62mm (2 1/2") set



N Double Track Slab Track R414 / 381mm (15 15/16)-45d

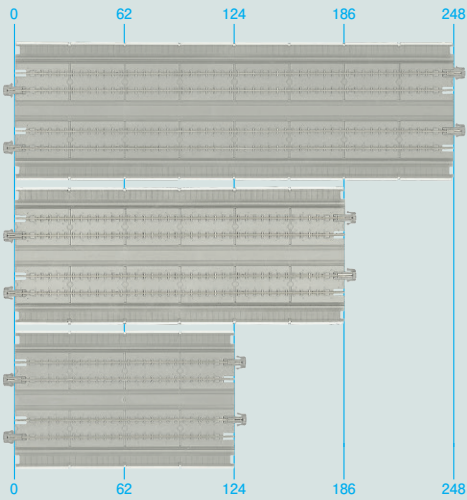


N Double Track Approach Slab Track R414 / 381mm (15 15/16)-22.5d, [L & R set]

# N UNITRACK Double Track Viaduct

For modeling modern, elevated railroad scenes check out our selection of slab roadbed viaduct track. There are various lengths of straight sections as well as curves, bridges, and inclined pier sets to take your model display to the next level!

## ● Double Track Viaduct Straight Tracks



**20-401**  
N Double Track Straight Viaduct 248mm (9 3/4"), [2 pc] \$22.00

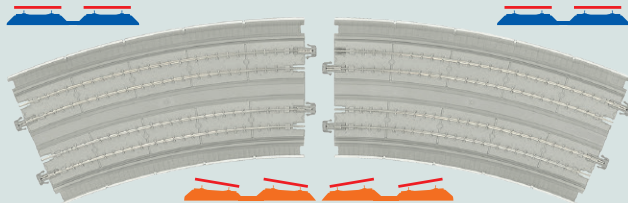
**20-411**  
N Double Track Straight Viaduct 186mm (7 5/16"), [2 pcs] \$21.00

**20-422**  
N Concrete Slab Double Track Straight Viaduct Track 124mm (4 7/8"), [2 pcs] \$20.00

## ● Double Curved Viaduct Tracks

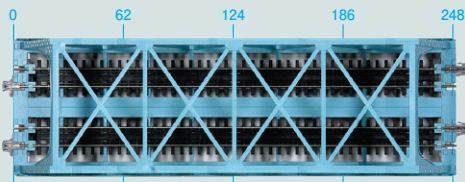


**20-544** N Double Track Curv. Viaduct Track R414 / R381-45 Degrees Inclined, [2 pcs] \$24.00

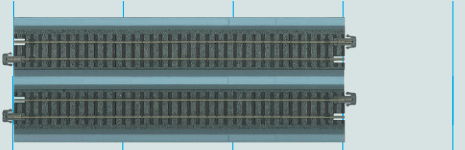


**20-545** N Double Track Viaduct Approach R414 / R381 [L & R set] \$16.00

## ● Double Track Bridges



**20-436** N Double Truss Bridge, Light Blue 248 mm (9 3/4"), [1 pc] \$22.00  
**20-437** N Double Truss Bridge, Gray 248 mm (9 3/4"), [1 pc] \$22.00  
**20-438** N Double Truss Bridge, Black 248 mm (9 3/4"), [1 pc] \$22.00  
**20-439** N Double Track Truss Bridge, Light Green 248mm (9 3/4"), [1 pc] \$22.00



**20-455** N Double Track Plate Girder Bridge, Light Blue 186mm (7 5/16"), [1 pc] \$26.50  
**20-456** N Double Track Plate Girder Bridge, Light Green 186mm (7 5/16"), [1 pc] \$26.50  
**20-457** N Double Track Plate Girder Bridge, Gray 186mm (7 5/16"), [1 pc] \$26.50  
**20-458** N Double Track Plate Girder Bridge, Black 186mm (7 5/16"), [1 pc] \$26.50

● **Double Track Straight Viaduct Track 248mm** (9 3/4") (WS248S) is the basic length of the straight track.

● **Double Track Straight Viaduct Track 186mm** (7 5/16") (WS186S) is 3/4 of the length of the (WS248PC).

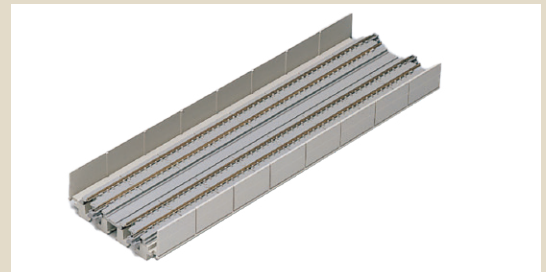
● **Double Track Straight Viaduct Track 124mm** (4 7/8") (WS124S) is 1/2 of the length of the (WS248PC).

● **Double Track Curved Viaduct Track R414 / 381mm** (16 5/16" / 15") -45d (WR414 / 381-45VS) is best for more realistic N scale model railroad scenes, and high-speed train operation on wider curves.

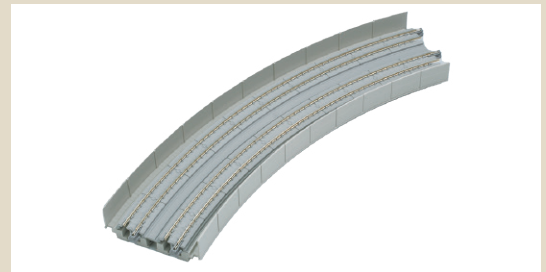
● **Double Track Viaduct Approach Track R414 / 381mm** (16 5/16" / 15") (WR414 / 381VSAL, WR414 / 381VSAR) is a 22.5 degree curved track to connect straight tracks with superelevated curved tracks.

● **Double Track Truss Bridge** (WS248T) is the same length as the Double Track Straight Viaduct Track 248mm (9 3/4"), and it includes an extra truss section and truss end cover pieces to connect multiple bridges.

● **Double Track Girder Bridge** (WS186T) is the same length as the Double Track Straight Viaduct Track 186mm (7 5/16"), and recreates a typical urban style bridge that has a solid under-frame and ballasted roadbeds



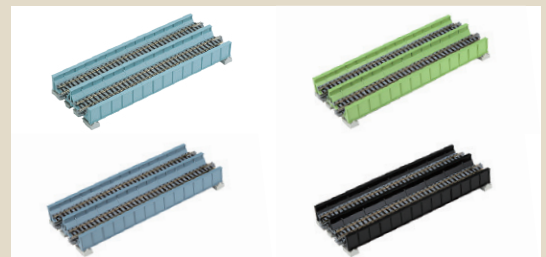
N Double Truss Bridge, Light Blue 248 mm (9 3/4")



N Double Track Curv. Viaduct Track R414 / R381-45

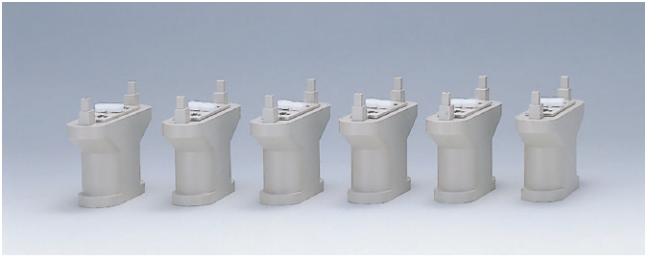


N Double Truss Bridge 248 mm (9 3/4")  
**20-436** Light Blue / **20-437** Gray / **20-438** Black / **20-439** Light Green



N Double Track Plate Girder Bridge 186mm (7 5/16")  
**20-455** Light Blue / **20-456** Light Green / **20-457** Gray / **20-458** Black

# N UNITRACK Double Track Piers



**23-019**

**Double Track Pier 50mm**

**\$19.00**

For double track truss bridges. Can also be used for viaduct double tracks. Includes six catenary pole bases and six S-Joiners.

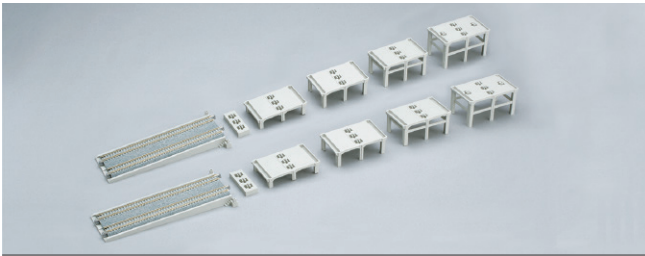


**23-020**

**Double Track Viaduct Pier (inc. 6 bases for wide catenary poles)**

**\$19.00**

Framework-type piers with six legs for viaduct double tracks. Includes six bases for wide catenary poles.

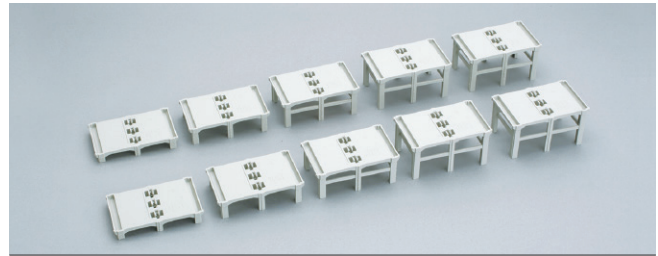


**23-048**

**Double Track Incline Pier Set Standard**

**\$50.00**

A pier set for creating the transition from ground level to elevated double tracks. Includes ten bases for wide catenary poles. The length of the included double track ramp is 186mm or 7 5/16 inches.



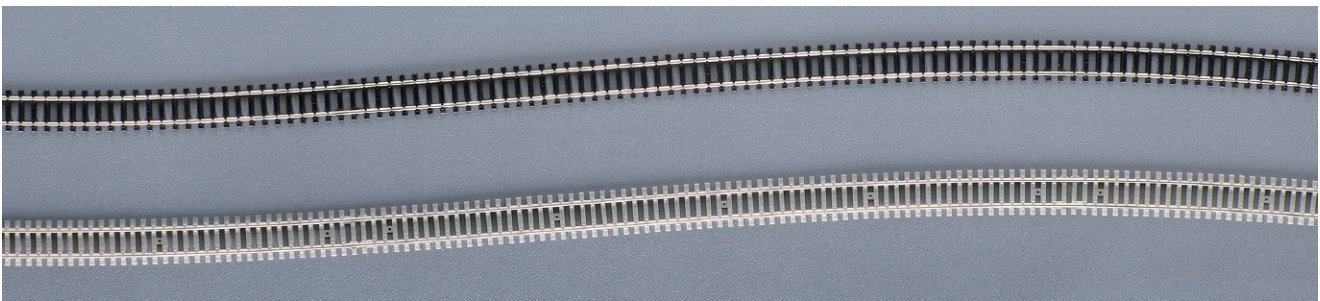
**23-049**

**Double Track Incline Pier Set Auxiliary**

**\$30.00**

By adding these to the standard set, you can set up the piers at realistic intervals.

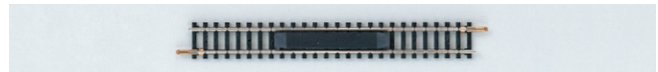
# N Scale Permanent Track Products



**21-000** N Flex Track 808mm (31 13/16"), [1 pc] **\$6.00**

**21-001** N Concrete Tie Flex Track 808mm (31 13/16"), [1 pc] **\$7.00**

**Flexible Track** --- With flexible rails & ties, this flexible track can be bent into any needed shape from a large radius curve to S-shape curves. It can be cut with pliers to the necessary length.



**21-011** Uncoupler Track 124mm [1pc] **\$7.00**

**Uncoupling Track** --- A track for automatic uncoupling and delayed uncoupling with Magne-Matic Couplers (manufactured by Micro-Trains ©)

※Magne-Matic Coupler is a registered trade mark of Micro-Trains©.

## Permanent Track Related Products

Products for operation with permanent tracks



**24-805**

**Flexible Track Terminal Joiner (1 yd), [1 pc] \$5.00**



**24-825** (Common use with UNITRACK)

**DC Extension Cord (1 yd) \$4.00**

## Setting Items for Permanent Tracks

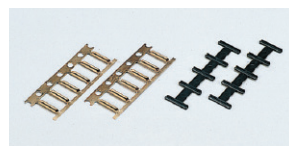
Products for mounting permanent tracks



**24-010**  
**N Cork Road Bed 900mm (36") \$6.00**



**24-015** (Can be utilized for UNITRACK.)  
**N Flexible Track Mounting Nails 13mm (1/2"), [10 g] \$3.50**



**24-810**  
**N Flexible Track Joiner [12 pcs] \$2.00**

**24-811**  
**Insulation Joint [10 pcs] \$2.50**

# N UNITRACK Compact

UNITRACK Compact makes it possible to create small track plans within the size of 325mm (12 13/16") × 573mm (22 9/16") . These track sets and individual pieces are perfect for train displays on small tables as well as connecting to the Kato UNITRAM system or in use on our Mini Dioramas. While not all of our models can run on these small radius curves, trains like our MyTram Small England, and Pocket Line series are an excellent fit.



**20-890** N CV-1 Unitrack Compact Oval Set \$42.00

Basic oval track set with the dimensions of 325mm (12 13/16") × 573mm (22 9/16").  
 CV1 Set Contents: R150mm (5 15/16") - 45 degree Curved Track × 8 pieces, Straight Track 124mm (4 7/8") × 3 pieces, Straight Track 62mm (2 7/16") × 1 piece, Feeder Track 62mm (2 7/16") × 1 piece, and Railer × 1 piece



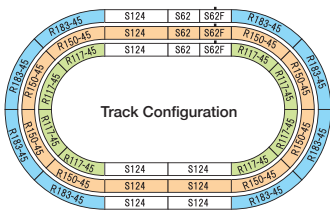
**20-891** N CV-2 Unitrack Compact Turnout Set \$110.00

CV2 Set Contents: R150mm (5 15/16") - 45 degree Electric Turnout (1 pc. each of left & right), R150mm (5 15/16") - 45 degree Curved Track × 2 pieces, Turnout Control Switch × 2 pieces



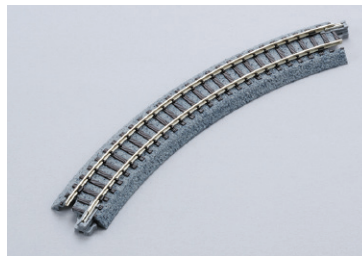
**20-892** N CV-3 Unitrack Compact Oval Set with 90d Crossing Set \$45.00

CV3 Set Contents: Straight Track 248mm (9 3/4") × 3 pieces, Straight Track 124mm (4 7/8") × 1 piece, Straight Railer Track 124mm (4 7/8") × 1 piece, Straight Track 62mm (2 7/16") × 1 piece, Feeder Track 62mm (2 7/16") × 1 piece, Straight Track 45mm (1 3/4") × 2 pieces, R183mm (7 3/16") - 45 degree Curved Track × 8 pieces, 90 degree Crossing Track × 1 piece, and Railer × 1 piece



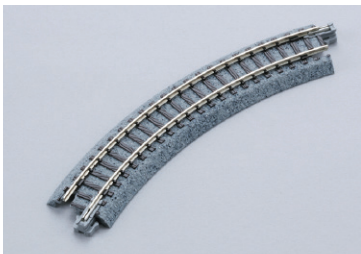
plan size: outside 391mm×639mm / middle 325mm×573mm / inside 259mm×507mm

- CV1 Contents
- #20-172 R183mm (7") - 45 degree Curved Track (Sold separately)
- #20-175 R117mm (4 5/8") - 45 degree Curved Track (Sold separately)
- Single tracks (Sold separately)



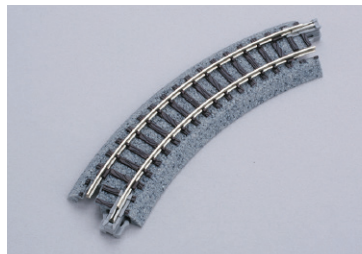
**20-172**  
 N Unitrack Compact 183mm (7 5/16") 45d Curve Track [4 pcs] \$11.00

4 pieces of the R183mm (7 3/16") - 45 degree Curved Track for the outside curve of the R150mm (5 15/16") - 45 degree curve. (2 packs with a total of pieces make a complete circle.)



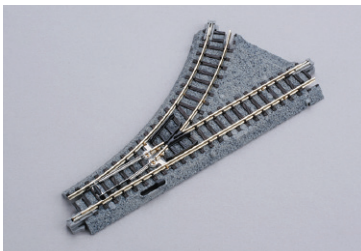
**20-174**  
 N Unitrack Compact 150mm (6") 45d Curve Track [4 pcs] \$11.00

4 pieces of the R150mm (5 15/16") - 45 degree Curved Track. Same radius as the tracks in the CV1 Set.



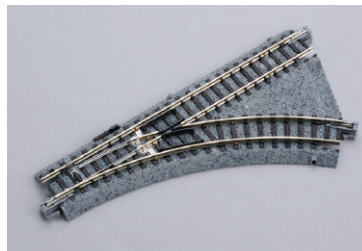
**20-176**  
 N Compact Curve R117mm (4 5/8") 45d [4 pcs] \$11.00

4 pieces of the R117mm (4 5/8") - 45 degree Curved Track for the inside curve of the R150mm (5 15/16") - 45 degree curve. (2 packs with a total of pieces make a complete circle.)



**20-240**  
 N Unitrack Compact point R150 (6") 45d Left [1 pc] \$45.00

Electric turnout with R150mm (5 15/16") - 45 degree left curve.



**20-241**  
 N Unitrack Compact point R150 (6") 45d Right [1 pc] \$45.00

Electric turnout with R150mm (5 15/16") - 45 degree right curve.

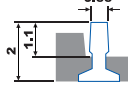
Attention: UNITRACK Compact is not compatible with regular N scale trains and can only be used by specific trains, such as UNITRAM, Pocket Line, and other trains that use small motors. For the smallest passable curve radius of any given train, please consult this catalog and the user manual that comes with the models. If the radius is not written, it is always Curve R249.

# UNITRAM

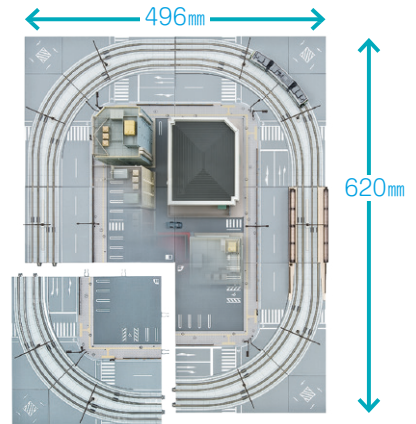
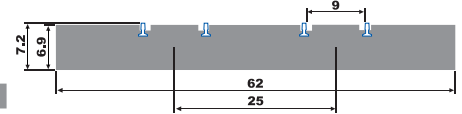
UNITRAM is a compact layout (diorama) system that fits on a tabletop and lets you create a street in N scale with a tram at its center.



Code80



N Scale



**40-810** UNITRAM Street Track Basic Set V60 - North American Style \$285.00



Pictured above is an example of the unique features of the American Unitram Street design. This item does not come with a tram or Power Pack.

## Expansion Sets - Sets that can be combined with the Basic Set to expand it



**40-812** TV2 UNITRAM Street Track Expansion Set \$410.00

By combining the TV2 UNITRAM Street Track Expansion Set with the TV1 UNITRAM Basic Set (UNITRAM Starter Set), you can create a sprawling figure 8 street track that intersects with itself. This way, you can easily recreate a right-angled intersection where trams are often seen in real life.



**40-813** TV3 UNITRAM Straight Track Expansion Set \$135.00

TV3 UNITRAM Straight Track Expansion Set extends the TV1 UNITRAM Basic Set (UNITRAM Starter Set) by the equivalent of a 186mm of straight track. The 186mm straight track sections are flanked by road sections on both sides; one comes with a pedestrian crossing, one without. (186mm x 434mm plate x2)



**40-814** TV4 UNITRAM Straight Track Set \$180.00

The TV4 UNITRAM Straight Track Set is a set made to link UNITRAM (double track interval: 25mm) and UNITRACK (double track interval: 33mm) with each other. It comes with tracks to change the interval of tracks, as well as track/road plates and accessories. Can also be connected to double tracks from V14 and the like. 434mm x 434mm.





**40-815** TV5 UNITRAM Straight Track Expansion Set \$90.00

The TV5 UNITRAM Straight Track Expansion Set extends the TV1 UNITRAM Basic Set (UNITRAM Starter Set) by the equivalent of a 124mm of straight track. It contains two sets of straight track plates, which are 124mm in length, flanked by road plates on both sides. (124mm x 434mm plate x2)



**40-822** UNITRAM Street Set \$90.00

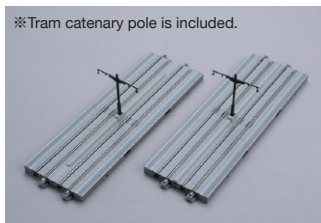
The UNITRAM Street Set allows the placing of roads and buildings on the outer sides of the TV1 UNITRAM Basic Set. Buildings or roads can be placed on both sides of the surface track.



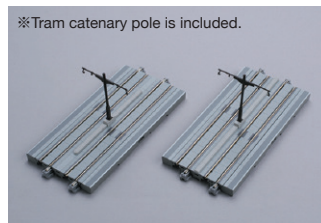
**40-823** UNITRAM Four way street intersection Set \$140.00

Placing the UNITRAM Four-Way Street Intersection Set on the outer sides of the TV1 UNITRAM Basic Set allows trams to gracefully pass a large intersection.

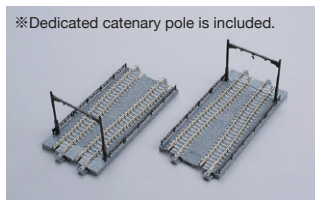
## Single Expansion Street Tracks, Optional Parts



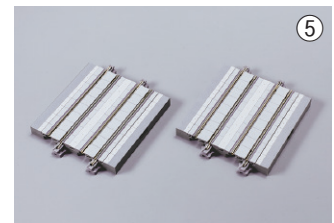
**40-010** UNITRAM Street Track Plate 186mm (7 5/16") \$17.50



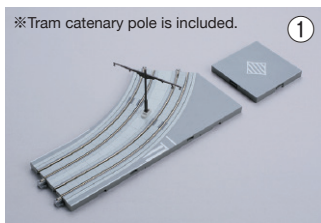
**40-020** UNITRAM Street Track Plate 124mm (4 7/8") \$16.00



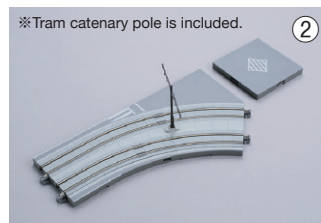
**40-021** UNITRAM Street Track Plate to UNITRACK Conversion 124mm (4 7/8") \$17.50



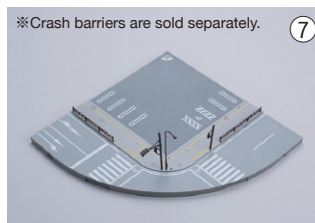
**40-031** UNITRAM Straight Track 62mm (2 7/16") \$15.00



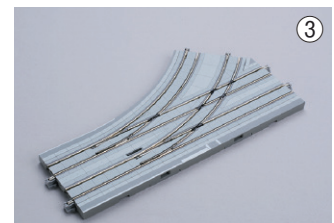
**40-101** UNITRAM Curve Track Crossing, Left \$12.00



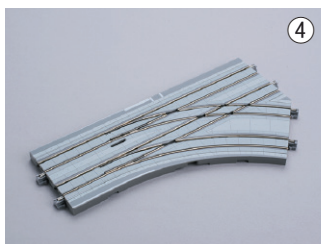
**40-102** UNITRAM Curve Track Crossing, Right \$12.00



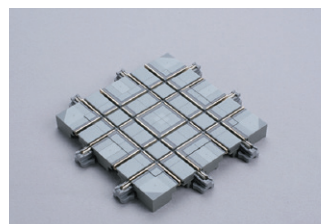
**41-100** UNITRAM Intersection-Inside \$15.50



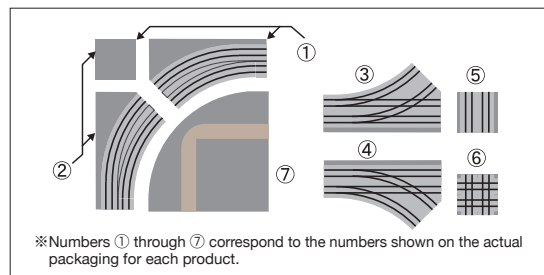
**40-210** UNITRAM Left Turnout \$65.00



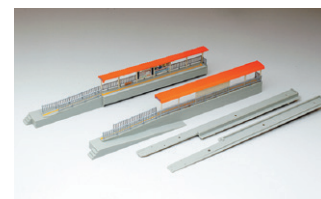
**40-211** UNITRAM Right Turnout \$65.00



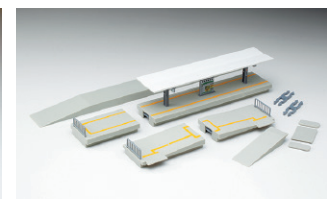
**40-300** UNITRAM Crossing Track 62mm (2 7/16") \$12.50



**43-730** UNITRAM Tram Stop Kit \$22.50  
Modern, barrier-free street track platforms (left side & right side)  
※Easy kit style with no need for glue. Just snap them into the straight street track plate.



**23-140** N Street Car Type Platform Set (L & R) \$42.00  
Street track platforms for high-floor trams.  
※UNITRAM/UNITRACK bases are included. The lengths are 186mm (7 5/16") for UNITRAM use, and 202mm (7 15/16") for UNITRACK use.



**23-141** N LRT Low Platform Set \$27.00  
LRT platforms for use in UNITRACK sections. Corresponds to the UNITRACK double track span of 49.5mm (1 15/16"). One left / right slope each is included.  
※Bus slope / track crossing boards are included. Length: 229mm (9")

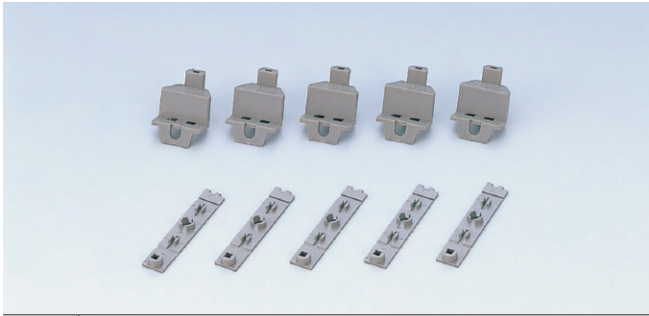


**43-731** UNITRAM Tram Catenary Pole Set [10 pcs] \$9.50



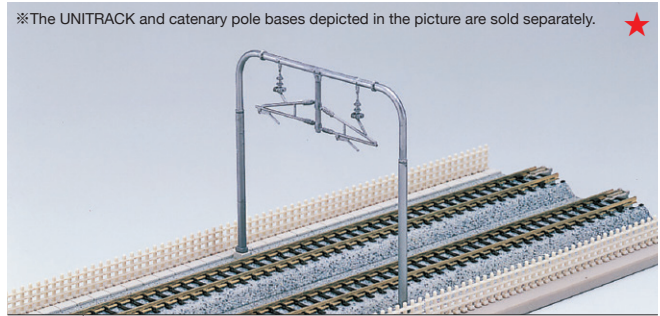
**44-847** UNITRAM Tram Feeder Power Cable 90cm (1 yd) \$9.50

# UNITRACK Catenary Poles



**23-056** Catenary Pole Base Set \$5.00

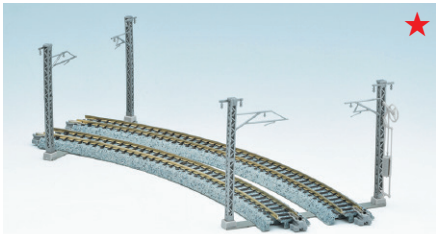
Bases for supporting overhead wire poles. There are 16 pieces each of the "ground overhead base" for installation on Unitracks and the "overhead wire pole stand for elevated base" for installation on single-track elevated tracks.



**23-057** ARCH-SHAPED CATENARY POLE FOR DOUBLE-TRACK PLATE (10pcs.) \$9.00

These double-track arch catenary poles are commonly seen on newer segments of track. Double-track spacing is 33 mm, which conforms to double-track plate tracks, Unitrack, and fixed tracks. The set includes a total of 10 poles of two different types with different overhead support systems and two tension adjusters.

★ ※Products marked with a ★ require catenary pole bases. The products with the item numbers 23-057, 23-058, 23-059, 23-060 and 23-065 require bases when attached to single ground and elevated tracks.



※The UNITRACK and catenary pole bases depicted in the picture are sold separately.

**23-058** Single-track Warren Brace Catenary Pole (12pcs.) \$30.00

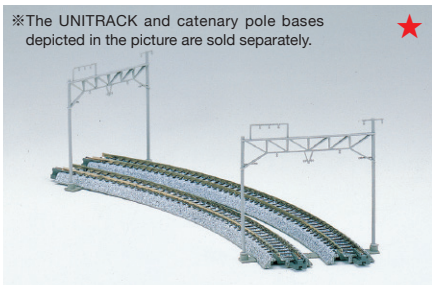
This steel catenary pole faithfully recreates the truss structure of the prototype. With the included single-track warren brace catenary pole for truss bridges it can be used as a single-track deck girder catenary pole (see right image) or with the Catenary Pole Base Set (23-056), it can be used on ground or elevated single-tracks. Movable brackets in long and short (6 each) are also included.



※The UNITRACK and catenary pole bases depicted in the picture are sold separately.

**23-059** Single-track Catenary Pole Set (16pcs.) \$7.50

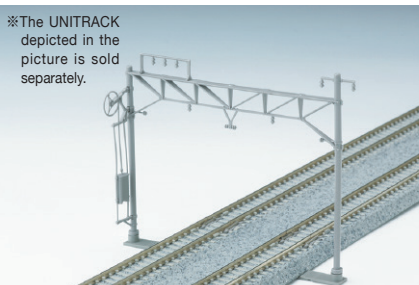
Concrete catenary poles widely used on single-track sections, relatively new electrified sections, and Shinkansen lines. The set includes a total of 16 poles of two different types with different overhead support systems. They can also be used for double-track elevated tracks.



※The UNITRACK and catenary pole bases depicted in the picture are sold separately.

**23-060** Double-Track Catenary Pole Set (8pcs.) \$7.50

This is the most common type of catenary pole on main trunk lines and private double-track sections where the catenary pole support beam is in the shape of a truss. The spacing is 33 mm in accordance with Unitrack standards.



※The UNITRACK depicted in the picture is sold separately.

**23-061** Double-Track Wide Catenary Poles (10pcs.) \$13.00

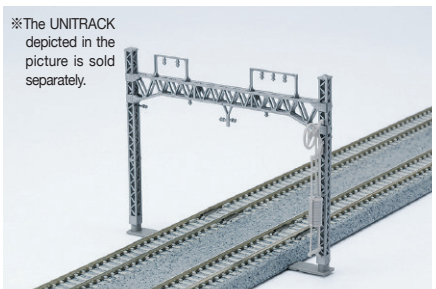
A type of double-track overhead catenary pole made of concrete attached to the outside of side walls. It is canted and wide enough to be used on double-tracks. The set includes 2 tension adjusters.



※The UNITRACK depicted in the picture is sold separately.

**23-062** Double-Track Wide Arch Catenary Poles (10pcs.) \$16.00

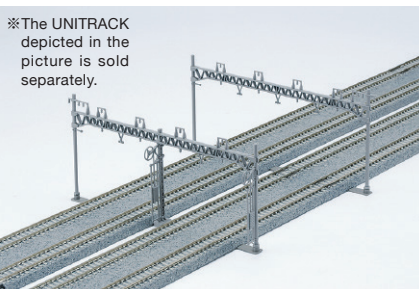
Double-track arch catenary poles commonly seen on new lines and improved sections of conventional lines, wide enough to fit double-tracks. The set includes a total of 10 poles of two different types with different overhead support systems and two tension adjusters.



※The UNITRACK depicted in the picture is sold separately.

**23-063** Truss Catenary Pole for Double-Track (6pcs.) \$20.00

Double-track catenary poles with lamien truss construction, wide enough to be used even on canted double-tracks. They can be used on the ground as well as on elevated tracks.



※The UNITRACK depicted in the picture is sold separately.

**23-064** Four-Track Wide Catenary Poles (10pcs.) \$20.00

Catenary poles spanning four lines used on quadruple tracks. They are wide enough to be used on double-tracks with cant. A pole with a tension adjuster in the center can also be placed on straight tracks.

# HO UNITRACK Standards & Measurements

With a variety of straight, curved, and turnout tracks, HO UNITRACK can be used with various HO model railroad scenes. As with N scale UNITRACK, reliable UniJoiners connect each track with a simple snap, and wiring is simple with our complete system of connectors.

### HO UNITRACK Standards

### Examples of #4 Electric Turnout use

246mm	185mm	175mm	246mm	114mm	11mm	185mm
S246	EP550L	S61U	S114	S246	S114	S61R
S246	S246	S246	S114	S246	S246	S246

S246	EP550R	S61R	S114	S114	S174	S174	S61L	EP550L
S246	S114	S61R	EP550R	S114	S174	S61L	EP550R	
S246	S114	S246	S114	S61L	EP550R			
S246	S114	S246	R550-15.5	R550-3.5				

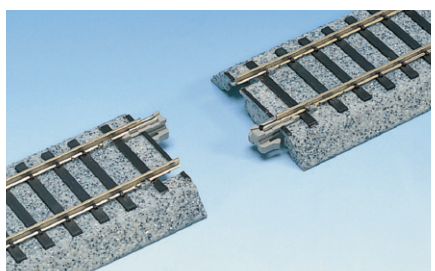
### Examples of #6 Electric Turnout use

### Examples of R490mm (19 5/16") Manual Turnout use

### Examples of Length Adjustment straight track (#6) 97mm use

KATO HO UNITRACK is developed with the same concept as N scale UNITRACK for easy, simple, and secure operation. The tracks work perfectly not only for operation on the floor, but also with modular layouts as well as permanent layouts. Turnouts can be applied to many track configurations with the included supplemental tracks.

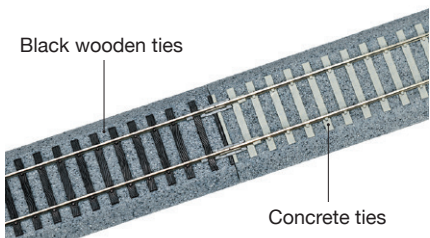
## HO UNITRACK Features Many advanced user friendly features, same as N UNITRACK.



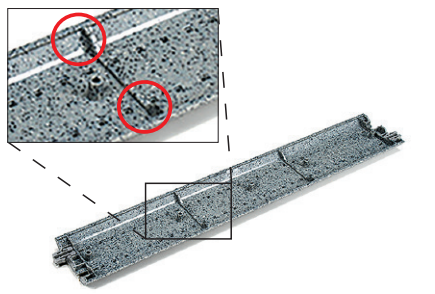
Physically and electrically secure connection with patented UniJoiners same as N UNITRACK. UniJoiners can be easily swapped around.



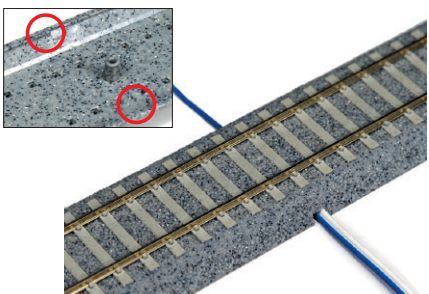
Simple and secure wiring with systematic KATO controllers and components.



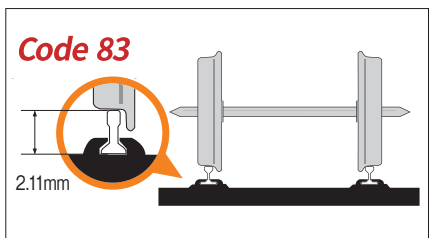
Black wooden ties and concrete ties are available depending on your desired railroad era or scene.



Reinforcement ribs on the backside of the roadbed allow for heavy brass car operation.



A loophole for passing the wire through for double track operation can be made easily by cutting the edge of the roadbed following the guidelines.



The rails of the HO scale UNITRACK are made with Code 83. The rail height is 2.11 mm (0.083 inches). By using Code 83 rails and sleepers with fitting density, the tracks perfectly match Japanese-style HO scale. Code 83 is derived from the 0.083-inch rail height.

※UNITRACK is a registered service mark of KATO Model Railroad Track system with roadbeds.

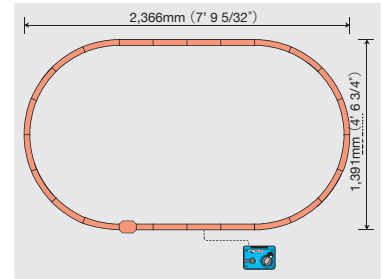
# HO UNITRACK Track Sets

HO UNITRACK is an HO track system with roadbed, which offers the desired easy operation of HO models and a realistic appearance. There are convenient track sets available to easily expand track plans. HO UNITRACK can be used for temporary layouts as well as for permanent layouts.



### 3-105 HO HM-1 R670mm (26 3/8") Basic Oval Track Set with Power Pack Standard SX \$230.00

- Basic oval track set with the Power Pack Standard SX for easy operation of HO models.
- The Power Pack SX in this set is reliable and simple to operate.
- The radius of the curved tracks in this set is R670mm (26 3/8"), so not only KATO HO models, but also many other manufacturers' models can be operated.

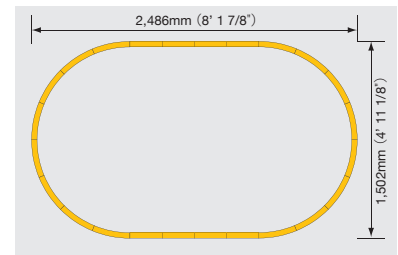


※Set Contents: Straight Track S246 × 6 pieces, Feeder Track S246F × 1 piece, Straight Track S123 × 1 piece, Rerailer Track S123RE × 1 piece, Curved Track R670-22.5d × 16 pieces, HO Rerailer × 1 piece, and Power Pack Standard SX × 1 piece



### 3-111 HO HV1 R730mm Outer Track Oval (28 3/4") \$140.00

This set creates an outside oval for the #3-105 HM-1 R670 (26 3/8") Oval Track Set with the standard track span of 60mm (2 3/8") for double track operation. 730mm (28 3/4") curved tracks make wider curves for smooth turns and more prototypical operations.



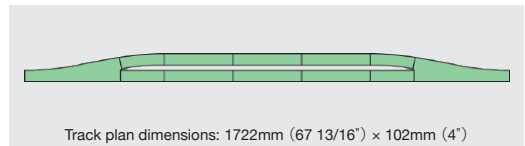
Set Contents: Straight Track S246 × 7 pieces, Feeder Track S246F × 1 piece, Curved Track R730-22.5d × 16 pieces, HO Rerailer × 1 piece



### 3-112 HO HV2 Passing Siding track set with #6 manual turnout \$150.00

This set creates a passing siding section and can be used together with the #3-105 HM-1 R670 (26 3/8") Oval Track Set. The length of the siding is 39 3/8", which is capable of supporting multiple car lengths. With the optional #2-503 & 2-504 DC Turnout Machine Left & Right, the turnouts can be electrified.

※When electrifying the turnouts, use of the #24-840 Turnout Control Switches and #24-827 3-Way Extension Cords is recommended.

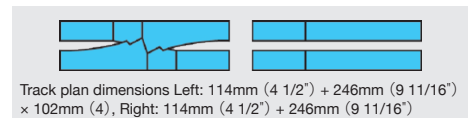


Set Contents: Manual #6 Turnout Left × 1, Manual #6 Turnout Right × 1, Curved Track R867 mm (34 1/8") - 10 degree × 2, Straight Track S149mm (5 7/8") × 2, and Straight Track S246mm (9 11/16") × 6



### 3-113 HO HV3 LH Interchange track set with #4 Electric Turnouts \$130.00

This set creates a single crossover section from the inside to the outside track with simplified #4 turnout track pieces. Additional S246 (9 11/16") & S114 (4 1/2") straight tracks are included to adjust the straight length of a double track oval. A standard double track span of 60mm (2 3/8") can be created. The turnouts have built-in electric turnout machines with a smooth appearance, and there are Insulated Unijoiners included in the set to prevent a short circuit at the crossover point. One Turnout Control Switch can control 2 turnouts at once (straight & crossing).



Set Contents: Electric #4 Turnout Left × 2, Assortment Track Straight S61mm (2 3/8") × 2, Straight Track S246mm (9 11/16") × 2, Straight Track S114mm (4 1/2") × 4, Insulated Unijoiner × 2, Turnout Control Switch × 1, 3-Way Extension Cable × 1

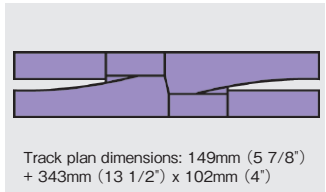
※UNITRACK is a registered service mark of KATO Model Railroad Track system with roadbeds.

# HO UNITRACK Track Sets



**3-114** HO HV4 LH Interchange track set with #6 Electric Turnouts **\$135.00**

A set to create a larger radius crossing than the HV-3 Set. It's possible to select both Power Routing and Non-Power Routing modes, so this can be used in both DC and DCC operation. A standard double track span of 60mm (2 3/8") can be created. The turnouts have built-in electric turnout machines with a smooth appearance, and there are Insulated Unjoiners included in the set to prevent a short circuit at the crossover point.



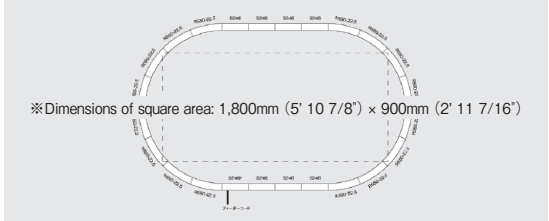
Set Contents: Electric #6 Turnout Left x 2, Assortment Track Straight S94mm (3 11/16") x 2, Straight Track S149mm (5 7/8") x 2, Road Bed Shoulder A x 4, Road Bed Shoulder B x 2, Insulated Unjoiner x 2, Turnout Control Switch x 1, 3-Way Extension Cable x 1, Electric Turnout Cable x 2



**3-115** HO HV5 R550mm (21 5/8") Basic Oval Track Set **\$130.00**

A set to create a compact oval track plan with R550mm (21 5/8") curved tracks in a limited space.

● Track plan dimensions: 2,126mm (6' 11 11/16") x 1,142mm (3' 8 31/32")



Set Contents: Straight Track S246mm (9 11/16") x 7, Feeder Track S246mm (9 11/16") x 1, Curved Track R550mm (21 5/8") Radius - 22.5 degree x 16, HO Rerailer x 1, and Power Pack Adapter Cord x 1



**3-131** HO HV21 3-Color Automatic Signal [2 pcs] **\$200.00**

A set to add 2 HO Electric Signals to track plans with other HM/HV sets. Includes the Accessory Adapter & Signal Power Supply to feed the signal, and the Stop Signal Switch to keep the red signal.

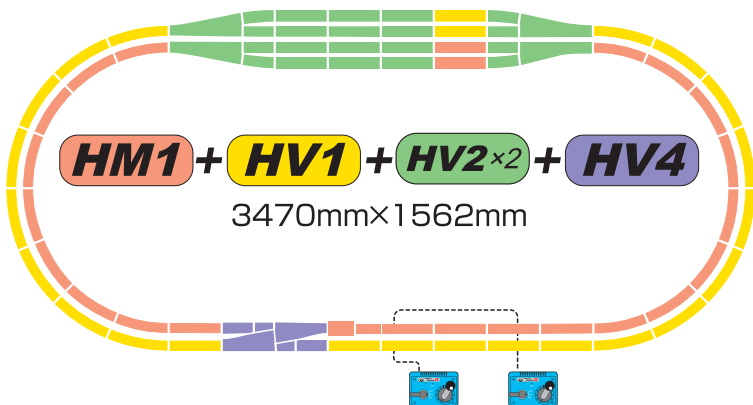


Set Contents: HO 3-Color Automatic Signal x 2, Straight Track S123mm (4 13/16") x 2, Stop Signal Switch x 1, Signal Power Supply x 1, Accessory Adapter x 1, Signal Extension Cable x 2

▶ Automatic Signal included in this set (Please see the details on p.29).

## Track Plan Variations with the Sets

The below plan shows one of the possible combinations with the HO UNITRACK sets.



For more HO UNITRACK track plans, please scan this QR code!

On the KATO Website, there are many HO UNITRACK track plans available, from large large to small layout plans.

### Necessary Products

<b>3-105</b>	HO HO HM-1 R670mm (26 3/8") Basic Oval Track Set with Power Pack Standard SX <b>\$230.00</b>	<b>22-018</b>	Power Pack Standard SX <b>\$80.00</b>
<b>3-111</b>	HO HV1 R730mm Outer Track Oval (28 3/4") <b>\$140.00</b>	<b>22-083</b>	Kato Power Supply - 16V (HO Scale) <b>\$28.00</b>
<b>3-112</b>	HO HV2 Passing Siding track set with #6 manual turnout <b>\$150.00</b>	<b>2-503</b>	HO DC Turnout Machine, Left [2 pcs] <b>\$27.00</b>
<b>3-114</b>	HO HV4 LH Interchange track set with #6 Electric Turnouts <b>\$135.00</b>	<b>2-504</b>	HO DC Turnout Machine, Right [2 pcs] <b>\$27.00</b>
		<b>24-841</b>	Turnout Extension Cord, 35" [4 pcs] <b>\$16.00</b>
		<b>24-840</b>	Turnout Control Switch [4 pcs] <b>\$40.00</b>
		<b>total \$873.00</b>	

# HO UNITRACK Straight Tracks

HO UNITRACK is based on the standard length of the 246mm (9 11/16") straight track. There are a variety of items available, such as turnouts & assortment tracks, adjustment tracks, 8 sizes of curved tracks, and a bumper track to cover all HO model railroad scenes &

**●Straight Tracks**

Part Number	Description	Price
2-180	HO Straight Track 369mm (14-1/2"), [4 pcs]	\$19.00
2-150	HO Straight Track 246mm (9 7/8"), [4 pcs]	\$17.50
2-151	HO Feeder Track 246mm (9 7/8"), [1 pc]	\$6.50
2-160	HO Straight Track 227mm (8-15/16"), [2 pcs]	\$11.00
2-130	HO Straight Track 174mm (6 7/8"), [4 pcs]	\$16.00
2-193	HO Straight Track 149mm (5 7/8"), [2 pcs]	\$10.00
2-140	HO Straight Track 123mm (4 7/8"), [4 pcs]	\$16.00
2-142	HO Rerailer Track 123mm (4 7/8"), [2 pcs]	\$13.00
2-143	HO UNITRACK Uncoupling Track 123mm (4 7/8"), [2 pcs]	\$21.50
2-601	HO 3-Color Automatic Signal - DCC Friendly, 1 set	\$65.00
2-120	HO Straight Track 114mm (4 9/16"), [4 pcs]	\$16.00
2-192	HO Length adjustment straight track (#6) 97mm (3 12/16"), [4 pcs]	\$25.00

●**Straight Track 369mm** (S369) (14 1/2") is 1.5 times longer than the standard Straight Track 246mm (9 11/16"). Convenient for a long straight section.

●**Straight Track 246mm** (S246) (9 11/16") is the standard length of the straight track.

●**Feeder Track 246mm** (S246F) (9 11/16") is to feed the electricity from the power pack to the tracks.

●**Straight Track 227mm** (S227) (8 15/16") matches the horizontal length of the standard Straight Track 246mm (S246) (9 11/16") when used at a 22.5 degree angle.

●**Straight Track 174mm** (S174) (6 7/8") matches the horizontal length of the standard Straight Track 246mm (S246) (9 11/16") when used at a 45 degree angle. Also, it can be used as an adjustment track for branch lines of #4 Electric Turnouts as well as to create a 120mm (4 3/4") track span with the #6 Electric Turnout (double the size of the standard track span of 60mm  $\div$  2 3/8").

●**Straight Track 149mm** (S149) (5 7/8") is a supplemental straight track for the #6 Turnout, and by connecting to the #6 Manual Turnout (HP867L/R + S149), a 492mm (19 3/8") long straight track-double the length of the Straight Track 246mm (9 11/16")- can be created.

●**Straight Track 123mm** (S123) (4 13/16") is half the length of the Straight Track 246mm (9 11/16").

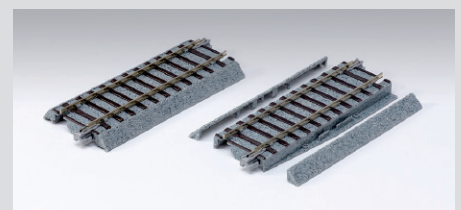
●**Rerailer Track 123mm** (S123RE) (4 13/16") is a track to fix small derailments during operation. Placing 2 pieces of them parallel creates a standard double track span of 60mm (2 3/8"). Please refer to the drawing on page 21.

●**Uncoupling Track 123mm** (S123U) (4 13/16") is a track installed with a magnet for uncoupling operations with the HO Kadee Coupler.

●**3-Color Automatic Signal** (S123SGL) has a 3-color signal on the left side of the Straight Track 123mm (4 13/16"). Please refer to page 31. There is also the #3-131 HV21 HO 3-Color Automatic Signal Set (shown on page 29) with 2 signals, and other related components.

●**Straight Track 114mm** (S114) (4 1/2") is a supplemental track for the #4 Electric Turnout and can also be used as an adjustment track for short sections.

●**Length Adjustment Straight track (#6) 97mm** (S97) (3 12/16") is a track that can be used to adjust track length and thus goes well with the (HO) Ele. Turnout, Left (#6) and the (HO) Curved Track R867-10°. With this track it is now possible to create sidings even when the track is attached to a turnout. When combined with the (HO) Curved Track R867-10°, the interval between double tracks can be extended to



\* There are many additional items for more advanced uses of UNITRACK. Please see page 34.

# HO UNITRACK Straight Tracks

0 60 94 109 212 252

**2-111** HO Straight Track 94mm (3 3/4"), [2 pcs] \$9.50

**2-105** HO Straight Track 60mm (2 3/8"), [4 pcs] \$12.50

**2-170** HO Bumper Track 109mm (4 3/8"), [2 pcs] \$12.50

(Contracted: 212mm)

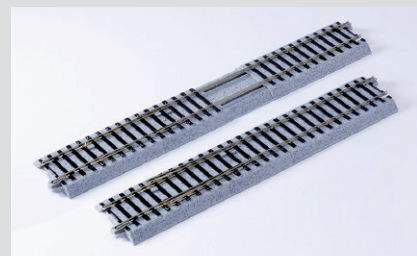
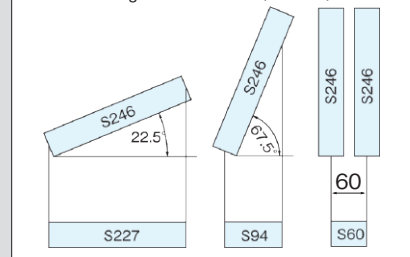
(Fully expanded: 252mm)

**2-194** HO 212-252mm (8 2/8"-9 15/16") Expansion Track [1 pc] \$45.00

0 60 94 109 212 252

- **Straight Track 94mm** (S94) (3 11/16") matches the horizontal length of the standard Straight Track 246mm (S246) (9 11/16") when used at a 67.5 degree angle.
- **Straight Track 60mm** (S60) (2 3/8") is the same length as the HO UNITRACK standard double track span of 60mm (2 3/8").

Dimensions of the length adjustment tracks 227mm (8 15/16"), 94mm (3 11/16"), 60mm (2 3/8"), and standard Straight Track 246mm (9 11/16").

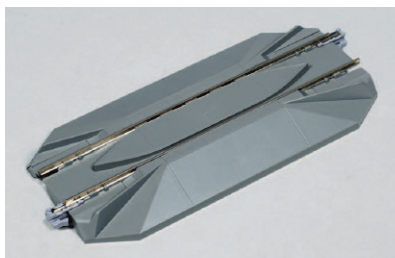


- **The Expansion Tracks 212-252mm** (S212S) make adjusting tricky track lengths possible. They can be used to adjust the siding at the start and end of a turnout, as a connection track in assembled or modular layouts and more. It is a completely new product, which imitates the structure of real life continuous welded rail expansion joints.



- **Bumper Track 109mm** (S109B) (4 5/16") is used to model the end of tracks at a siding, yard, and terminal station. The shape of the end sign is a generic turret style. Product Length: 109mm (4 5/16")
- ※ Excluding the length of the UniJoiner

## Rerailer Track



**2-142** HO Road Crossing 123mm (4 7/8") + Rerailer Track, [2 pcs] \$13.00

A convenient rerailer track to fix minor derailments during operation. The appearance mimics a real railroad crossing, so it can be fit anywhere in the layout scene. By aligning 2 tracks, the HO UNITRACK standard double track span can be created.



▲ Convenient to correct minor derailments during operation.

## 3-Color Automatic Signal S

**2-601** HO 3-Color Automatic Signal - DCC Friendly [1 set] \$65.00

**3-131** HO V21, 3-Color Automatic Signal, Straight track 123mm (4 7/8"), [1 set] \$200.00

An automatic signal on the left side of the Straight Track 123mm (4 13/16"). It changes the signal lights when the train passes. With the optional #24-848 HO Stop Signal Switch, the signal light can be kept red for more realistic operation at the station or the yard. There is a single kit for the signal, as well as a set of HV21 Set (on page 29) with 2 signals & associated components.

- Set Contents: HO 3-Color Automatic Signal × 2, Straight Track S123mm (4 13/16") × 2, Stop Signal Switch × 1, Signal Power Supply × 1, Accessory Adapter × 1, Signal Extension Cable × 2
- ※ The stop signal button cannot be used for N scale (20-605-1).



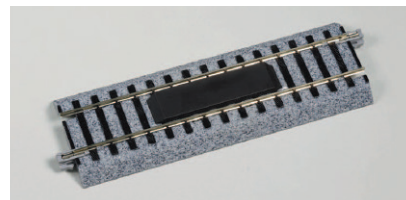
**24-848** HO Stop Signal Switch \$17.00

For extension of the location of the stop signal switch, please use the #20-654 Sensor Track Extension Cable for #20-652-1.

## Uncoupling Track

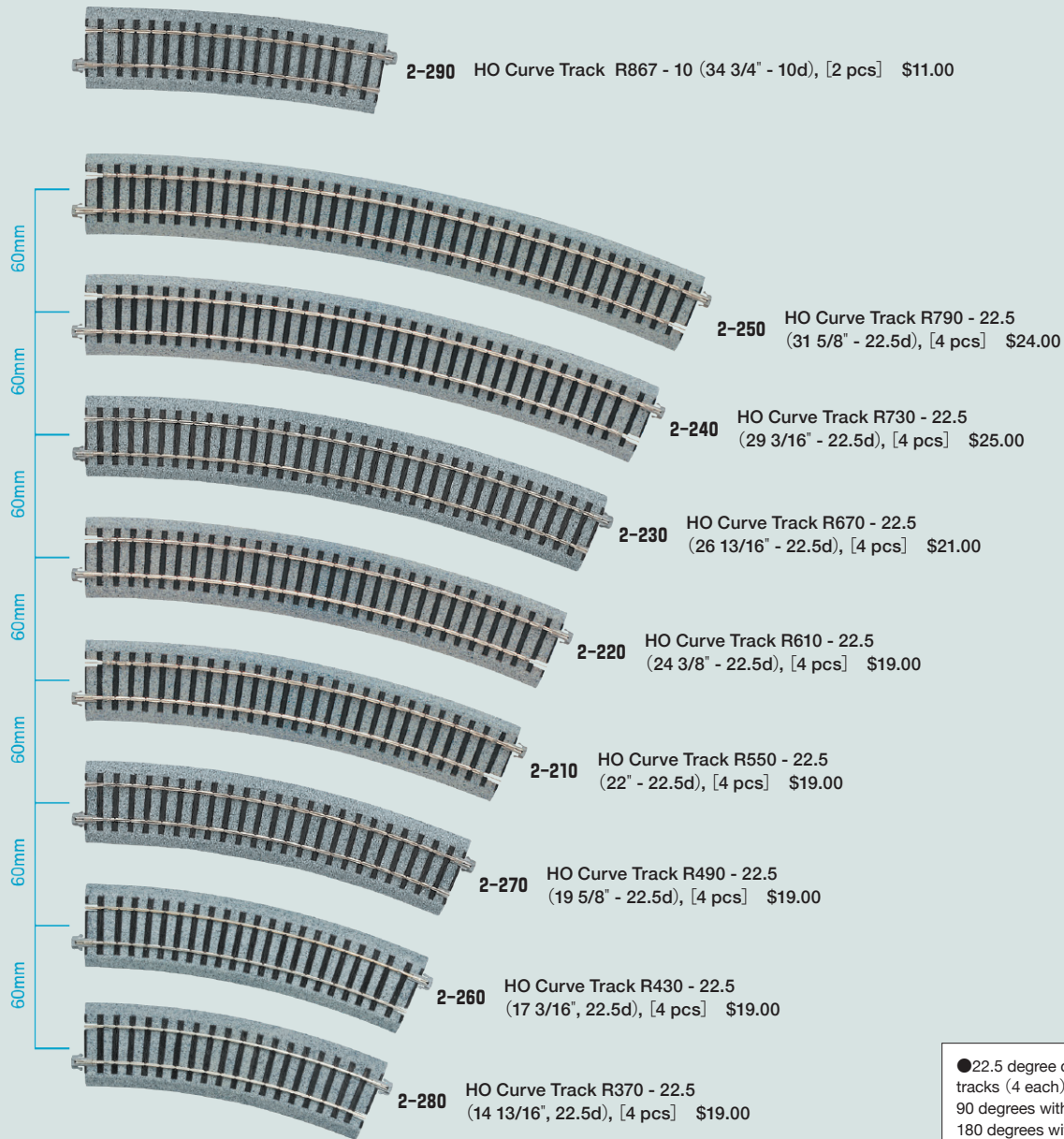
**2-143** HO UNITRACK Uncoupling Track 123mm (4 7/8"), [2 pcs] \$21.50

This is an HO UNITRACK with an "uncoupling ramp" from Kadee Couplers. Thanks to the magnet between the rails, couplers are automatically uncoupled as long as they are not in motion.



# HO UNITRACK Curved Tracks / Crossing Track

## ● Curved Tracks

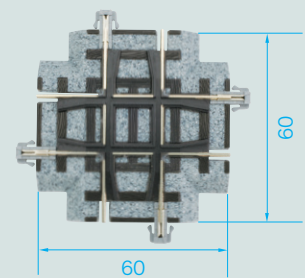


● 22.5 degree curved tracks (4 each) create:  
90 degrees with 1 set  
180 degrees with 2 sets  
360 degrees with 4 sets

※ Tracks with black wooden ties are not superelevated.

- HO UNITRACK curved tracks have various radius curves starting from the minimum R370mm (14 9/16") to R790mm (31 1/8") with a 60mm (2 3/8") span & 22.5 degrees.
- R550mm (21 5/8") - 22.5 degree curved track is the basic curved track of HO UNITRACK, and corresponds to the radius of the #4 Turnout. All of KATO HO locomotives & cars are designed to pass this R550mm (21 5/8") curve.
- R610mm (24") - 22.5 degree curved track is one size outside the minimum curve to create a double track. This and R550mm (21 5/8") - 22.5 degrees are recommended for use in a limited space.
- R490mm (19 5/16") - 22.5 degree curved track, and R430mm (16 15/16") - 22.5 degree curved track are for use on a small-sized layout.
- R370mm (14 9/16") - 22.5 degree curved track is the smallest radius curved track for a table-top-sized layout.
- R867mm (34 1/8") - 10 degree curved track is a supplemental track to create a siding section with the #6 Manual Turnout.
- 90 degree Crossing (X90) creates a figure-8 track layout with which longer operations can be created.

## ● Crossing Track



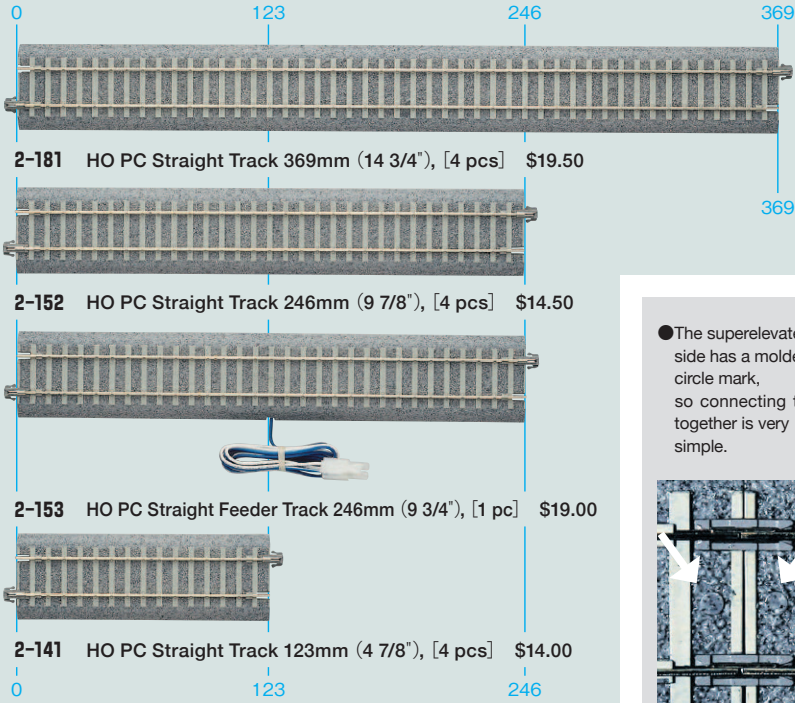
2-401 HO 90-degree Crossing, 60mm (2 3/8"), [1 pc] \$22.00



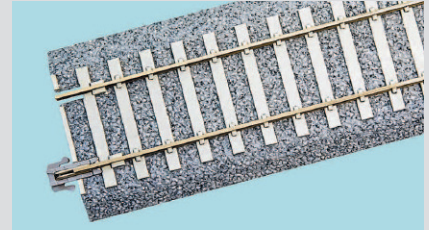
# HO UNITRACK PC (Concrete Tie) Tracks

This is the HO UNITRACK lineup with concrete ties typically seen in modern railroad scenes. Curved tracks are superelevated, just as the prototype railroads, and their flat (non-superelevated) side can be connected to regular wooden tie HO UNITRACK tracks, including various turnouts.

## ● Straight Tracks



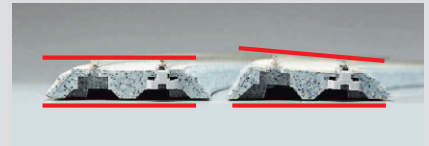
## ● Realistic concrete ties



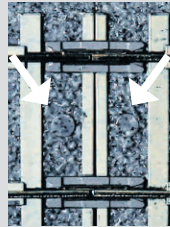
## ● Curved tracks are superelevated.



● Showing the superelevated side (right) & flat side (left) of the curved track. The circle mark is molded on the roadbed of the superelevated side to avoid incorrect joining.

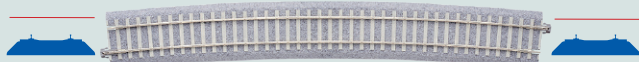


● The superelevated side has a molded circle mark, so connecting them together is very simple.

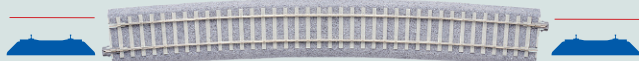


## ● Curved Tracks / Approach (Easement) Tracks

※Please use the approach (easement) tracks at the start / end points of a curved section.



**2-331** Concrete Tie Large-Radius Curve Track R1606mm(63 1/4")-11.25° \$25.00



**2-321** Concrete Tie Large-Radius Curve Track R1546mm(60 7/8")-11.25° \$25.00

This is a transition curve meant to ease the transition from straight to curved track to reduce the load and smooth the movement of the train. It does not have a cant, which is why it can also be used for the interval between double tracks, etc.



**2-251** HO PC Curve Track R790mm - 22.5 (31 5/8" - 22.5d), [4 pcs] \$18.00



**2-252** HO PC Curve Track R790mm - 22.5 (31 5/8" - 22.5d) Approach Track [L&R 2 pcs] \$19.50



**2-241** HO PC Curve Track R730mm - 22.5 (29 3/16" - 22.5d), [4 pcs] \$17.50



**2-242** HO PC Curve Track R730mm - 22.5 (29 3/16" - 22.5d) Approach Track [L&R 2 pcs] \$18.00

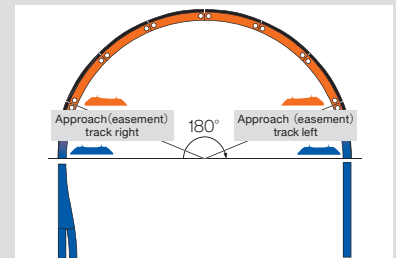
## To create a half circle (180 degrees)

- Superelevated curved tracks × 6
- Concrete tie curved approach (easement) tracks × 1 pc. each of right and left

## To create a complete circle (360 degrees)

- Superelevated curved tracks × 3 sets (12 pieces)
- Concrete tie approach (easement) tracks × 1 set (2 pieces each of right & left)

※If straight tracks are inserted between the approach (easement) tracks in the half circles.



To connect the concrete tie curved track and approach (easement) track, please connect the sides with a molded circle mark on the roadbed.

The flat side (no molded circle mark) of the curved track can be connected to concrete tie straight tracks & regular wooden tie HO UNITRACK products.

**Flat side of the roadbed**  
Can be connected to concrete tie straight tracks.

**Superelevated side of the roadbed**  
Can be connected with concrete tie curved tracks & approach (easement) tracks on the side of the roadbed that has a molded circle mark.

# HO UNITRACK Turnouts / Turnout Machines

There are two types of turnouts in the HO UNITRACK lineup. One is the electrified turnout with a machine equipped, and the other is a manual one at a more affordable price. Depending on your desired track plans, the dimensions of each turnout are different. Both power-routing and non-power-routing modes can be selected easily with an internal selector.

**● Turnouts**

**2-862** HO #6 Manual Left Turnout w / 867mm (34 1/8") Radius Curve [1 pc] \$50.00

**2-863** HO #6 Manual Right Turnout w / 867mm (34 1/8") Radius Curve [1 pc] \$50.00

**2-852** HO #4 Manual Left Turnout w / 550mm (21 5/8") Radius Curve, [1 pc] \$65.00

**2-853** HO #4 Manual Right Turnout w / 550mm (21 5/8") Radius Curve, [1 pc] \$65.00

**2-840** HO #4 Manual Left Turnout 246mm (19 3/4") w / R490-22.5 (19 5/8" - 22d), [1 pc] \$40.00

**2-841** HO #4 Manual Right Turnout 246mm (19 3/4") w / R490-22.5 (19 5/8" - 22d), [1 pc] \$40.00

**2-860** HO #6 Powered Left Turnout 492mm (19 3/8") w / 867mm (34 1/8") Radius Curve, [1 pc] \$70.00

**2-861** HO #6 Powered Left Turnout 492mm (19 3/8") w / 867mm (34 1/8") Radius Curve, [1 pc] \$70.00

360mm=S246×S114

492mm=S246×2

●The HO UNITRACK manual turnouts can be used for a siding without using supplemental tracks, which makes them affordable and easy to use. They can be electrified or changed to DCC mode by installing optional turnout machines.

●Turnout Machines are optional components to electrify the Manual Turnout R490mm (19 5/16") (HP490L/R) and the Manual Turnout #6 (HP867L/R). Available for each direction of right or left.

Best for electrifying manual turnouts.



**2-503** HO DC Turnout Machine, Left [1 pc] ¥13.50



**2-504** HO DC Turnout Machine, Right [1 pc] ¥13.50

●The Manual Turnouts #6 (HP867L/R) are the same standard as the Electric Turnouts #6 mentioned above, but are assembled as one molded turnout without supplemental track pieces for easy handling. They use the R867mm (34 1/8") large radius curve, so it is good for use with a long train and large cars or locomotives with a prototypical operation. They can be electrified or changed to DCC mode by installing optional turnout machines.

●The Manual Turnouts #4 (EP550L/R) use the R550mm (21 5/8") sets as a "new standard" for manual turnouts that rivals our N scale turnouts in terms of ease of use and low price.

The turnout is produced with a newly added spring turnout function, and with the separately available point machine and point switch, it can be electrified.

●The Manual Turnouts R490mm (19 5/16") (HP490L/R) use the same radius of the R490mm (19 5/16") curved track to make a variety of track plans in a small space possible. They are able to be electrified or changed to DCC mode by installing optional turnout machines.

●HO UNITRACK electric turnouts use a DC turnout machine to change direction, so the machine is compact enough to be built in the roadbed to allow more variety of track plans. This is convenient for use on the floor.

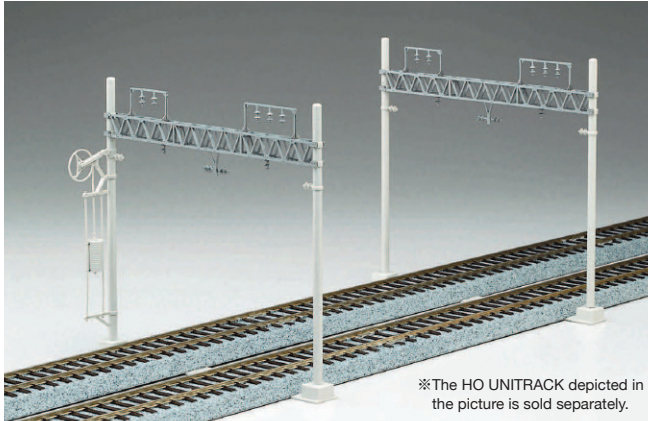
●HO UNITRACK turnouts can be applied to various track plans such as a siding, branch lines, and crossovers.

●The Electric #6 Turnouts (EP867L/R) use the R867mm (34 1/8") large radius curve, to run long trains and large cars with prototypical dimensions. These turnouts function best as the highlight of the layout such as a siding from the mainline. Both Power-Routing and Non Power-Routing modes can be selected easily by an internal switch.

# HO UNITRACK Catenary Poles / Rerailer

Catenary poles are best for modeling electrified railroad scenery. Varieties of HO catenary poles are available depending on the scene. Some work well with compact curves under R490mm (19 5/16"), while others are great for large sized cars on Superelevated tracks.

## HO Catenary Poles



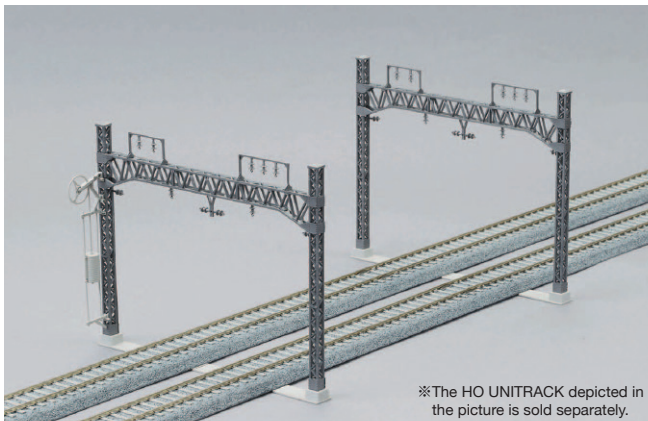
**5-051** HO Double Track Catenary Poles [6 pcs] \$22.00

This arch-type catenary system features concrete poles with steel truss beams. The poles and beams are molded separately and in different colors to provide a realistic appearance right out of the package. The included pole bases are spaced to maintain a standard double track width of 60mm (2 3/8"). When using this catenary system on double curved tracks of R550 and R610, it is best to use locomotives and rolling stock less than 262mm (10 1/3") in individual length to prevent the cars from making contact with the poles as they round the bend. Two optional tension adjuster parts are also included.



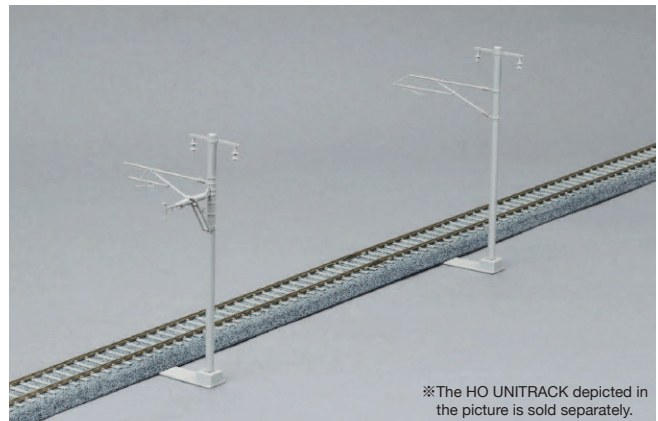
**5-052** HO Single Track Catenary Poles [12 pcs] \$18.00

This single track catenary system replicates a concrete pole style and features two types of brackets. When using this catenary system on curved tracks of R550, it is best to use locomotives and rolling stock less than 262mm (10 1/3") in individual length to prevent the cars from making contact with the poles as they round the bend. Using these polls on curves sharper than R550 may also result in contact with the polls depending on car length. Two optional tension adjuster parts are also included.



**5-053** HO Double Track Wide Warren Brace Catenary Poles [6 pcs] \$30.00

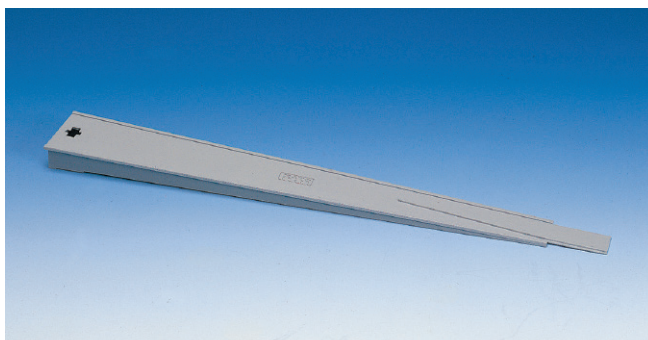
This arch-type catenary system faithfully recreates the steel truss construction of the prototype with three dimensional silver plastic molding and fine details. It is great for use on tighter curves, or superelevated curves with long locomotives and rolling stock. The included pole bases are spaced to maintain a standard double track width of 60mm (2 3/8"). Two optional tension adjuster parts are also included.



**5-054** HO Single Wide Track Catenary Poles [12 pcs] \$18.00

This single track catenary system replicates a concrete pole style and features two types of brackets. It is a wider version of 5-052 to allow for use on tighter curves or superelevated curves with longer locomotives and rolling stock. The included pole bases are designed to maintain a standard width of 60mm (2 3/8") when used in double track operation. Two optional tension adjuster parts are also included.

## HO Rerailer



















**2-502** HO Rerailer [1 pc] \$7.50



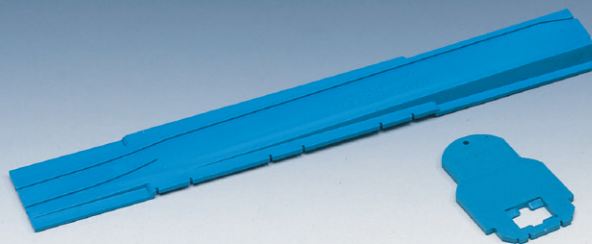
You can easily put the train on the track by sliding it.

# UNITRACK Associated Items For both N / HO scales

The Kato Unitrack system also features many accessories that can be used to easily expand and adapt your model train operations. These items include plug-in style convenient connectors to connect with tracks and controllers, power packs and switches, and turnouts. Can be used for both N and HO scale UNITRACK systems.

	UniJoiners are to connect UNITRACK track products. Steady electrification and secure connection are guaranteed. The color is matched to the UNITRACK roadbed.		Insulated UniJoiners are used to divide the track sections electrically. They are Black colored for simple differentiation with regular UniJoiners.		Terminal UniJoiners are to set a power feeding space by exchanging regular UniJoiners at the place the Feeder Track is not able to be reach. Length: 2' 11 7/16"			
<b>24-815</b>	UniJoiner [20 pcs]	\$6.50	<b>24-816</b>	Insulated UniJoiner [20 pcs]	\$6.50	<b>24-818</b>	Terminal UniJoiners [1 pair]	\$5.00
	A specific extension cable for the UNITRACK system. This can be connected with other white connector UNITRACK plug connectors for DC connection. Length: 2' 11 7/16"		UniJoiners with brown plastic best for wooden tie tracks. Can be replaced easily from the original UniJoiners.		UniJoiners for the connecting point with the straight single deck girder bridges. Not for the use with the #4 turnouts.			
<b>24-825</b>	DC Extension Cord, 90cm (1 yd)	\$4.00	<b>24-819</b>	UniJoiner Brown [20 pcs]	\$6.50	<b>24-820</b>	1/2 Joiner Brown [20 pcs]	\$6.50
	A specific feeder cable for double track viaduct tracks. Connects to the bottom of a viaduct for secure connection. Length: 2' 11 7/16"		An adaptor for the automatic signal power supply & other accessories connected to the side of the power pack.		An extension cable to connect the accessory adaptor and accessories with brown connectors.			
<b>24-828</b>	Double Track Power Cord [2 pcs]	\$10.00	<b>24-829</b>	Accessory Adapter for <b>22-014</b> Power Pack	\$7.25	<b>24-826</b>	AC Extension Cord, 90cm (1 yd)	\$4.00
	An extension cable with 3 outlets to feed power to multiple places on your track. Length: 2' 11 7/16"		An AC/DC converter for Non-KATO branded power packs to control the KATO Turnout Control Switch.		An adapter cable for Non-KATO branded power packs to feed track power to the UNITRACK feeder cable. Length: 2' 11 7/16"			
<b>24-827</b>	3-Way Extension Cord, 90cm (1 yd)	\$6.50	<b>24-842</b>	DC Converter for Turnout Control Switches [1 pc]	\$7.00	<b>24-843</b>	Power Pack Adapter Cord, 90cm (1 yd)	\$3.50
	A specific controller for UNITRACK turnouts. DC12V needs to be supplied by Kato Power Pack or <b>24-842</b> adapter.		A specific extension cable to reach turnouts that are far from the controller. Length: 2' 11 7/16"		An ON/OFF switch to control track power when connected to feeder cables from isolated sections of track such as a passing siding or yard track.			
<b>24-840</b>	Turnout Control Switch	\$10.00	<b>24-841</b>	Turnout Extension Cord, 90cm (1 yd)	\$4.00	<b>24-850</b>	Power Feed Control Switch	\$24.00
	This switch changes the polarity of the power to its connected feeder tracks. Perfect for creating a reversing loop or similar operations.							
<b>24-851</b>	Power Direction Control Switch	\$25.50						

## N Scale Rerailer



<b>24-000</b>	N Scale Rerailer [1pc]	\$5.00
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Useful for putting trains onto tracks, especially locomotives with many wheels and those with drawbars. Matches double track scale (33/66 mm spacing) and 150 mm scale. UniJoiner remover included.

**24-000** Rerailer (for N scale)

※There is also a rerailer for HO scale (**#2-502**).Please see the Page 35.

# Controllers For both N / HO scales

No train can run without a power source, which is why Kato power packs provide safe and consistent power with easy to use controls. They can also be used in both N and HO scale when combined with the correct accessories.

## Power Pack

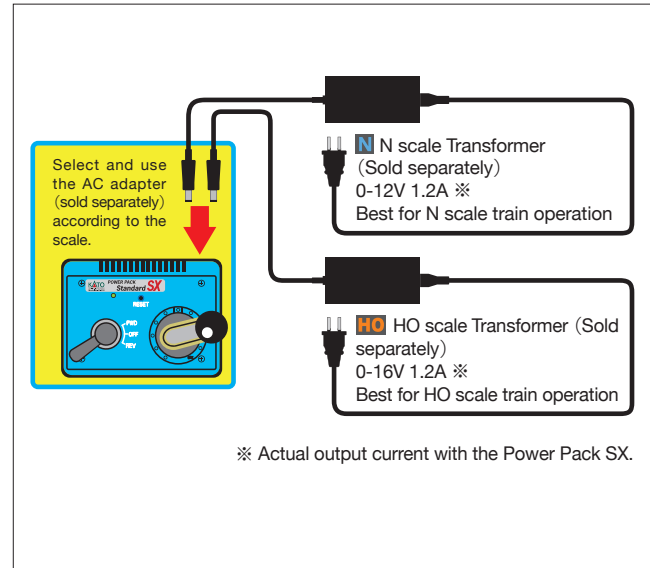


**22-018-1** Power Pack Standard SX \$80.00

### Specifications

Input: DC13.5V / 17V 2.0A  
 Output: Car Operation (White Terminal)  
     DC 0-12V 1.2A (for the use with N scale Transformer)  
     DC 0-16V 1.2A (for the use with HO scale Transformer)  
 Accessories (Side Terminals)  
     DC 12V / 16V  
 Maximum current for car operation + accessories 1.2A  
 Manual reset switch equipped

The Power Pack Standard SX provides 1.2A rated current. Capable of representing slow speed operation for realism. Optional transformers for both N / HO are also available.



## AC Adaptor

Power supplies for the Power Pack SX and Power Supply Connector. 2 different types depending on the output voltage for each N scale and HO scale. Can also be used as the power supply for the Analog Sound Box.

**Specifications for N scale Transformer**    **Specifications for HO scale Transformer**  
 Input: AC 100-240V ※    Input: AC 100-240V ※  
 47-63Hz (For the Japan type outlet plug only)    47-63Hz (For the Japan type outlet plug only)  
 Output: DC 13.5V 2.2A    Output: DC 17V 2.1A

※By purchasing commercially available European type outlet plugs, these power supplies can be used in European countries.



**22-082** Kato Power Supply - 12V (N Scale) \$25.00



**22-083** Kato Power Supply - 16V (HO Scale) \$28.00

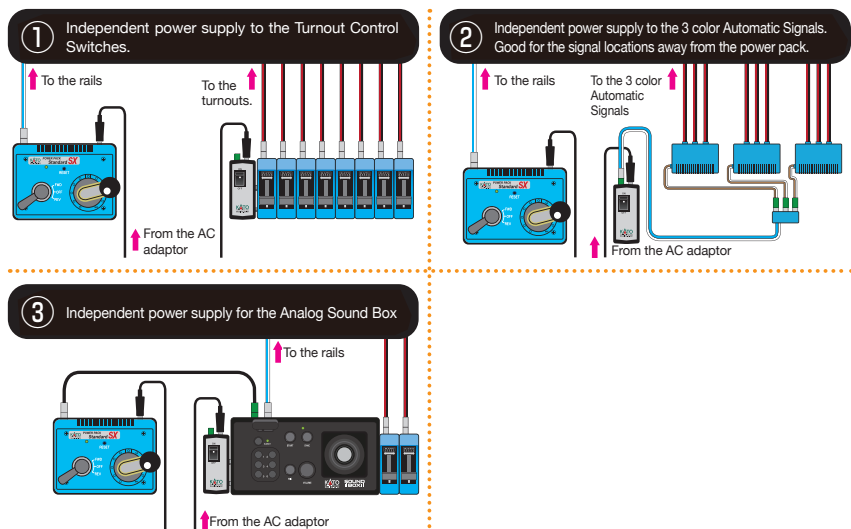
## Power Supply Connector

(AC Adaptor sold separately)



**22-081** Power Supply Connector \$40.00

The Power Supply Connector can feed electricity to various components without using the Power Pack. With the optional N / HO AC Adaptor, separate electric power can be fed from the snap terminals on the side and the green terminal from the back.



**Specifications**  
 Input: DC 13.5V / 17V 2.0A  
 Output: DC 0-12V 2.0A (for the use with N scale Transformer)  
     DC 0-16V 2.0A (for the use with HO scale Transformer)  
 Overload protection circuit equipped

# SOUND BOX / New Smart Controller

For N & HO DC Layouts!



**Enjoy BIG Sound**  
without the need for DCC  
- Operate with your phone or tablet!

- 🔊 **Works with both HO and N scale** - The modular pass-through design of the Analog Sound Box means that it works on any DC layout, no matter the size or configuration!
- 🔊 **Choo-choo-choose your sounds** - With a wide variety of separately available sound cards, the Analog Sound Box can bring volume to everything from vintage diesels to classic steam engines to modern locomotives.
- 🔊 **Smart Back-EMF reading** - The sound box doesn't just make noise - it will read the effort of the motor in your engines to know how hard they're working. Certain sounds will self-adjust based on the speed of the locomotive so what you hear will match what you see, all without the need for DCC!
- 📶 **Bluetooth control** - Now, with the new "Smart Device Controller", you can operate your layout with the swipe of your finger! **Compatible with the Sound Box or capable of operating alone**, the "Smart Device Controller" and free companion app from Kato makes operating your layout easier than ever!

22-019	Smart Device Controller for Bluetooth control (works with or without Soundbox)	\$170.00
22-082	Kato Power Supply - 12V (N Scale Use)	\$25.00
22-083	Kato Power Supply - 16V (HO Scale Use)	\$28.00
22-102-1	Analog Soundbox	\$315.00
22-201-1	EMD 1st Generation Diesel Sound Card Diesel sounds set appropriate for classic diesels such as F and E units	\$33.00
22-202-1	FEF-3 and GS-4 Heavy Steam Sound Card Steam Sound Set appropriate for large Steam locomotives like the FEF-3 and GS-4	\$33.00
22-202-2	EMD 3rd Generation Diesel Sound Card Diesel Sound set appropriate for modern EMDs like the SD90/43MAC, SD70MAC, and SD70ACe	\$33.00
22-202-3	GE 3rd Generation Diesel Sound Card Diesel Sound set appropriate for modern GEs like the P42, C44-9W, AC4400CW, and ES44AC	\$33.00
22-202-4	US Light Steam Sound Card Steam Sound Set appropriate for light-to-medium Steam locomotives like the Heavy Mikado	\$33.00
22-203-1	EMD 1st Generation Diesel with Turbo Sound Card Diesel Sound set appropriate for older turbocharged Diesels such as the GP35	\$33.00
22-203-2	EMD 2nd Generation Diesel with Turbo Sound Card Diesel Sound set appropriate for mid-range turbocharged Diesels such as the SD40-2, SDP40F, F40PH, and MP36PH	\$33.00
22-203-3	ACS-64 Sound Card Sound set designed with prototypically accurate ACS-64 Sound recordings	\$33.00
22-271-4	Alco PA-1 Sound Card Diesel sound set appropriate for Alco PA-1	\$33.00

See the Kato Smart Device Controller in action on the Kato Youtube Channel!



# Smart Device Controller For both N / HO scales



Connector side

## Specifications

Input: DC 13.5V / 17V 2.0A

Output: Car Operation (White Terminal)

DC 0-12V 1.2A (for the use with N scale Transformer)

DC 0-16V 1.2A (for the use with HO scale Transformer)

Accessories (Side Terminals)

DC 12V (for the use with N scale Transformer)

DC 16V (for the use with HO scale Transformer)

Built-in overcurrent protection circuit

Total output for running cars + accessories 2.0A

Analog only

Vehicle control method 32kHz PWM control

## Wireless Specifications

Transfer method: Bluetooth 4.0 (Bluetooth LE)

Maximum transfer distance: 10m (unobstructed)

Used frequency band: 2.4GHz (2400MHz-2482MHz)

Supported devices: iPhone 5 or newer / Android 5.0 or newer

\*Some functions may not be supported by all devices.

<b>22-019</b>	<b>Smart Device Controller for Bluetooth control</b> (works with or without Soundbox) (AC Adapter sold separately)	<b>\$170.00</b>
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You can remotely control your railway model from your smartphone or mobile device by connecting this controller to a conventional power pack and downloading the free app. With the wireless Bluetooth connection, you can enjoy using several Smart Controllers at once with no jamming. Additionally, you can connect the smart controller to the **22-102** Analog Sound Box and control both the train and the sounds directly from the app!

Please use together with the separately sold N / HO AC Adapter.





All prices listed in this catalog are the MSRP.

Catalog pricing is based on the 2023 Manufacturer's Suggested Retail Price and is subject to change.

For the best price check your favorite local or online hobby retailer.

