

Kato 20-092

Kato USA Inc. N Short Track Assortment B (Model 20-092) User Manual

Comprehensive Guide for Assembly, Operation, and Maintenance

1. PRODUCT OVERVIEW

The Kato N Short Track Assortment B (Model 20-092) provides essential track pieces for expanding or adjusting your N-gauge model railroad layouts.

This set includes 29 mm and 45.5 mm track sections designed for precise layout adjustments and compatibility with UniTrak compact systems. Kato is a renowned Japanese manufacturer of high-quality railroad models, known for realistic designs, robust construction, and excellent performance. These tracks are designed for ease of use and durability, making them suitable for both beginners and experienced hobbyists.

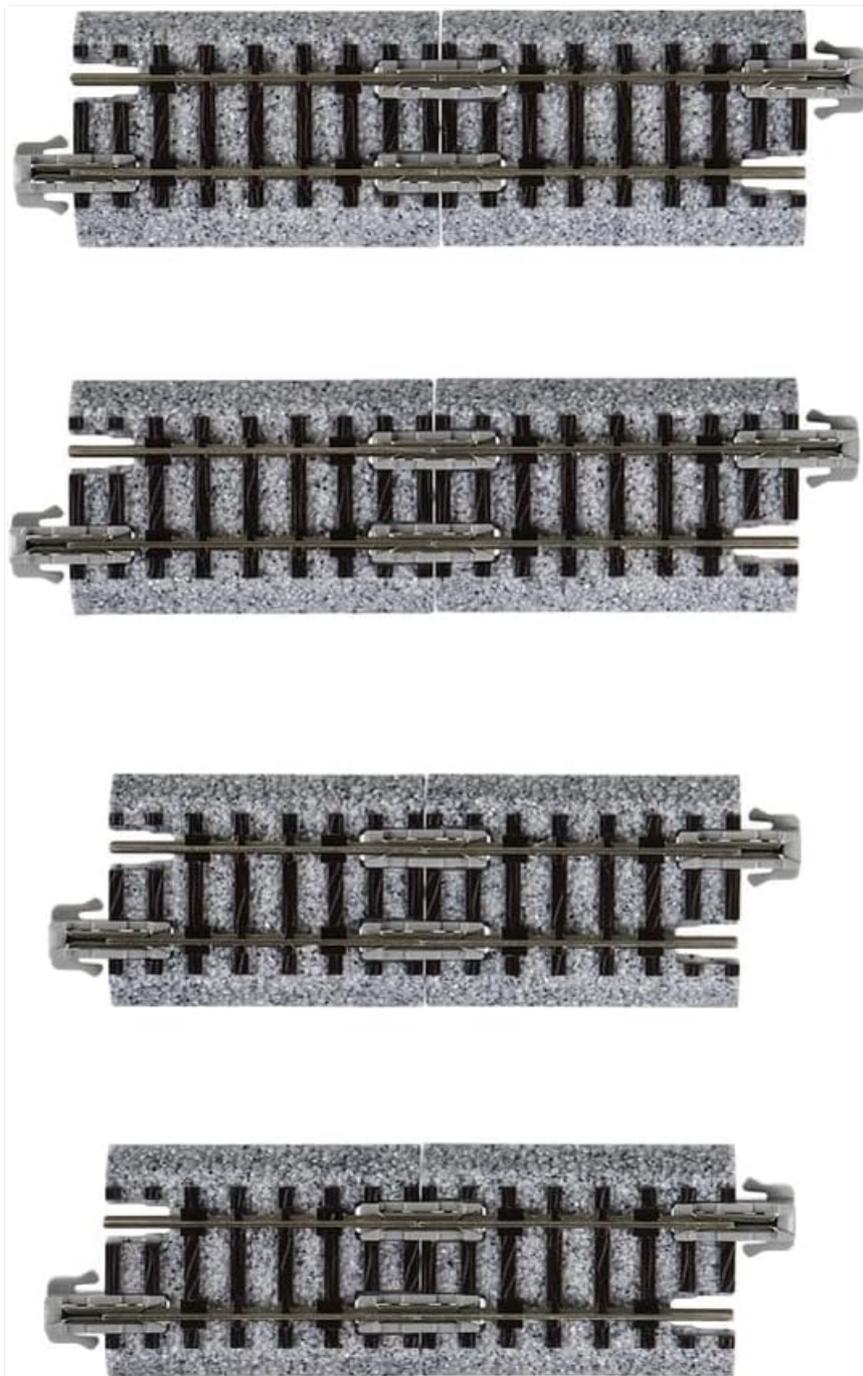


Figure 1.1: Overview of the Kato N Short Track Assortment B.

2. PACKAGE CONTENTS

The Kato N Short Track Assortment B (Model 20-092) typically includes the following components:

- **S33 Line Track (33 mm):** Designed for adjusting the same length as the double track distance of the Uni-track, ideal for multi-line adjustments.
- **S38 Straight Track (38 mm):** Compatible with UniTrak compact, suitable for creating various layouts, including figure-8 configurations when combined with a 90-degree crossing line.



Figure 2.1: Product packaging illustrating the included track pieces.

3. SETUP AND ASSEMBLY

Kato UniTrack system is designed for easy and secure assembly. Follow these steps to connect your track pieces:

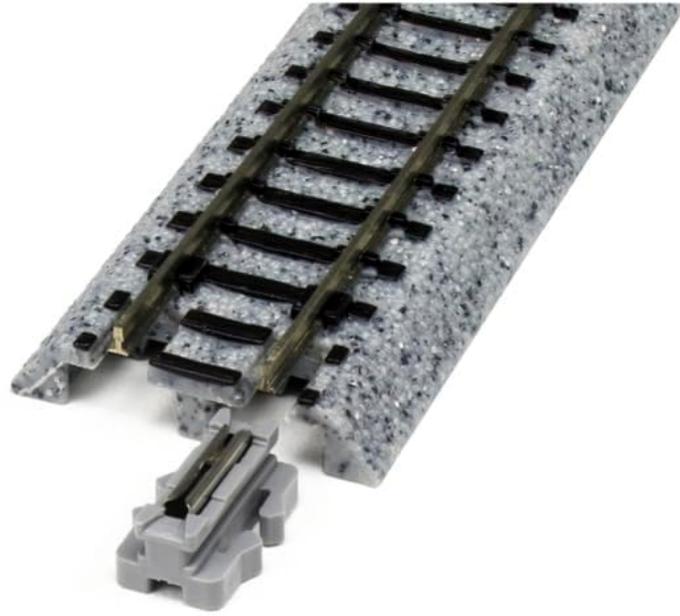
1. **Prepare the Tracks:** Ensure both track pieces are clean and free of debris.



Figure 3.1: A single track piece, ready for connection.

2. **Align the Unijoiners:** Each Kato track piece features a robust "Unijoiner" connection system. Align the metal rails and the plastic base connectors of the two track pieces you wish to join.

■耐久性の高い丈夫な線路



頑丈なユニジョイナー（接続部）



Figure 3.2: Detail of the Unijoiner connection system.

3. **Connect the Tracks:** Gently push the two track pieces together until the Unijoiners are fully engaged. You should feel a secure click. The connection is designed to absorb minor height differences and warps, ensuring a smooth track surface.



Figure 3.3: Two track pieces securely connected.

4. **Verify Connection:** Once connected, ensure there are no gaps between the track pieces and that the rails are perfectly aligned for optimal train operation.

4. OPERATING INSTRUCTIONS

These short track sections are primarily used for fine-tuning and expanding your N-gauge layouts.

- **Adjusting Double Track Spacing:** The 33mm (S33) track is specifically designed to match the standard double track distance of the Uni-track system, allowing for seamless transitions and parallel track configurations.

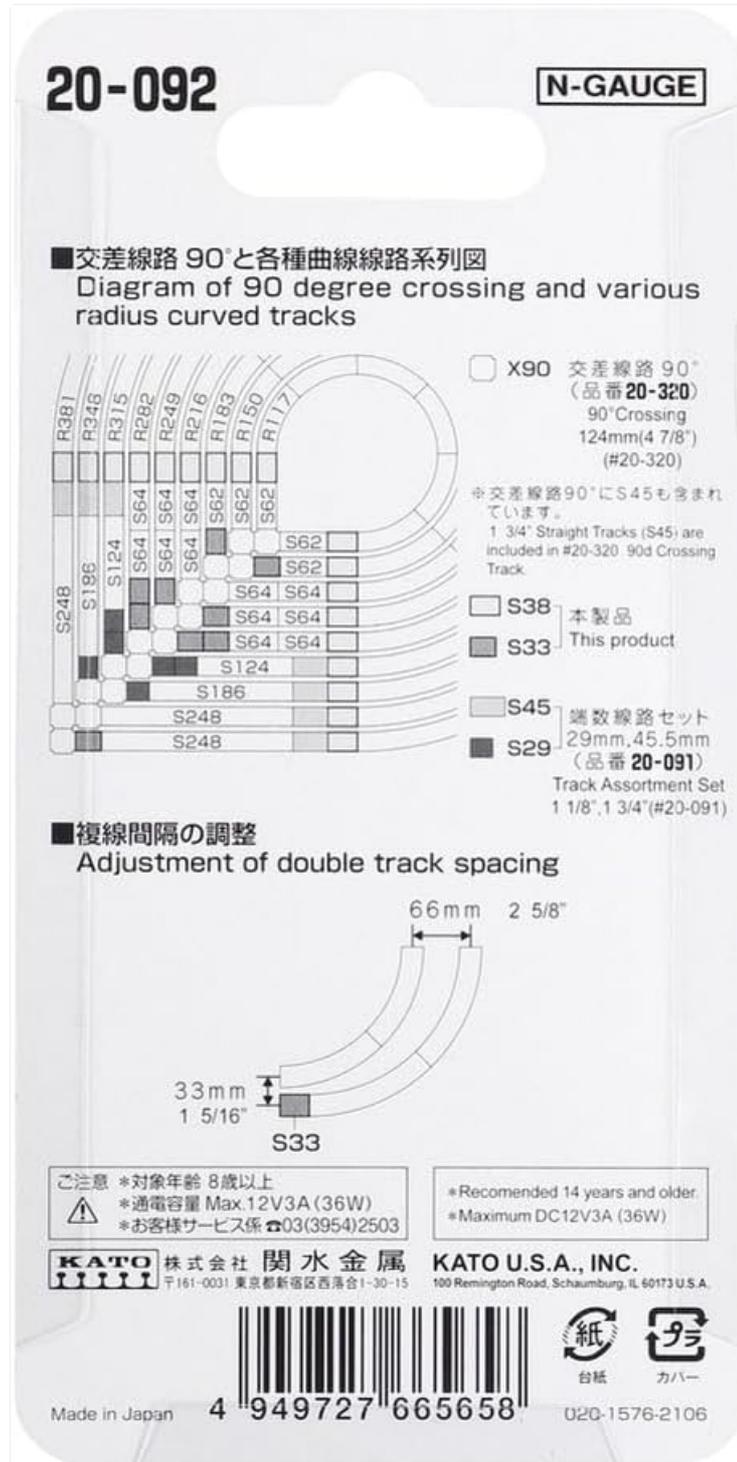


Figure 4.1: Diagram illustrating double track spacing adjustment.

- **Creating Complex Layouts:** The 38mm (S38) straight track is highly compatible with UniTrak compact components, enabling the creation of intricate layouts, including figure-8 designs when combined with a 90-degree crossing track (sold separately).
- **Layout Flexibility:** The robust design of Kato UniTrack allows for stable layouts on various surfaces, including flooring and tatami mats, providing flexibility in your modeling environment.

■耐久性の高い丈夫な線路



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畳の上でも遊べます。

抜群の安定感を誇る丈夫で
幅の広いプラスチック道床！
ユニジョイナーは線路同士を
確実に接続し、多少の段差や
ゆがみを吸収します。



Figure 4.2: Example of a stable track layout on a flat surface.

- **Expanding Your System:** These short tracks are integral for connecting various track sets and individual pieces, allowing for the realization of extensive and detailed railway models.

■ひろがる線路プラン



線路セットから単品まで豊富な
ラインナップを誇るユニトラック。
鉄道模型の「走らせる喜び」を
実現します。

Figure 4.3: An example of an expanded track plan using various Kato UniTrack components.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Kato N tracks.

- **Cleaning:** Regularly wipe the track rails with a clean, lint-free cloth to remove dust and debris. For stubborn grime, use a specialized track cleaner.
- **Storage:** When not in use, store track pieces in a dry, cool place away from direct sunlight and extreme temperatures to prevent warping or damage.
- **Handling:** Always handle track pieces by their base to avoid bending or damaging the rails or connectors.

6. TROUBLESHOOTING

If you encounter issues with your Kato N tracks, consider the following common solutions:

Problem	Possible Cause	Solution
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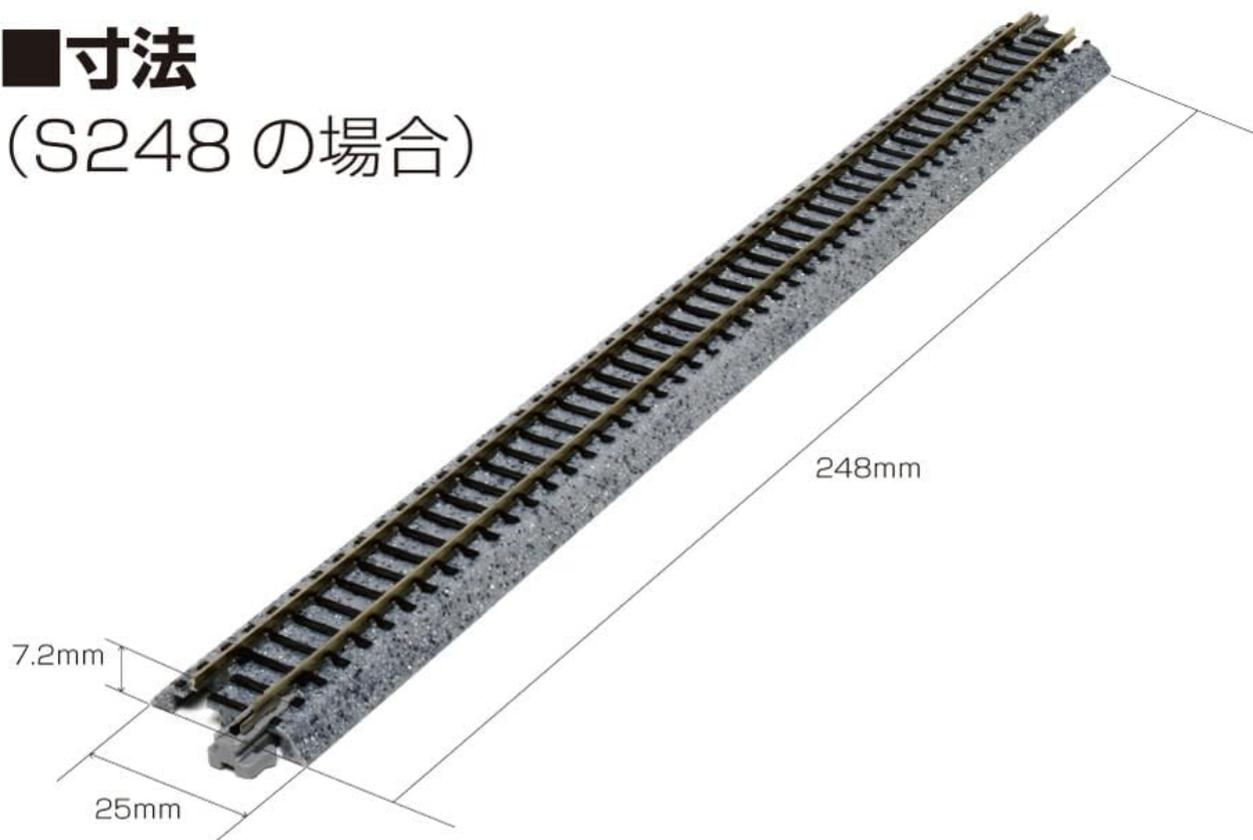
Problem	Possible Cause	Solution
Train derails on track joint	Improperly connected tracks, misaligned rails.	Ensure track pieces are fully engaged and rails are perfectly aligned. Reconnect if necessary.
Poor electrical contact	Dirty rails or connectors, loose connection.	Clean rails and Unijoiners. Ensure connections are firm.
Track pieces do not fit together	Debris in Unijoiner, damaged connector.	Inspect Unijoiners for obstructions. If damaged, replace the track piece.

7. SPECIFICATIONS

- **Model Number:** 20-092
- **Track Lengths Included:** 29 mm, 45.5 mm (specifically S33 and S38)
- **Gauge:** N-Gauge
- **Product Dimensions:** 6.38 x 3.23 x 0.75 inches
- **Item Weight:** 1.12 ounces
- **Manufacturer:** Kato
- **Recommended Age:** 14 years and older (as per packaging)
- **Maximum DC Voltage:** 12V (36W) (as per packaging)

■寸法

(S248 の場合)



S248 × 2 本で車両 (20m級)

3 両程度



Figure 7.1: Example of track dimensions (S248 shown for reference).

8. WARRANTY AND SUPPORT

Kato products are manufactured with high standards of quality. For specific warranty information or technical support, please refer to the official Kato website or contact their customer service.

Kato is committed to providing excellent after-sales service and customization options, making their products accessible and manageable for all users.

■安心の日本製

KATO ユニトラックはすべて
日本国内の自社工場にて
生産しています。

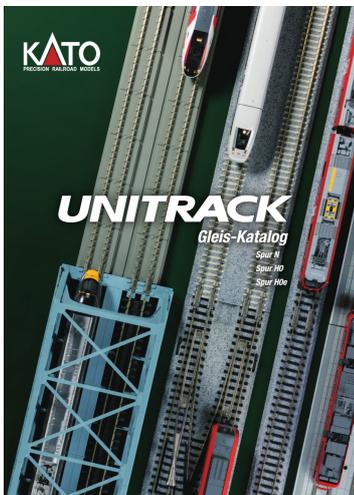


Figure 8.1: The Kato factory, where all UniTrack products are produced in Japan.

Related Documents

	<p>KATO HD1430III Fully Hydraulic Excavator Service Manual</p> <p>Comprehensive service manual for the KATO HD1430III Fully Hydraulic Excavator, covering introduction, specifications, engine unit, hydraulic pump equipment, control equipment, front attachment, superstructure, lower structure, and electrical equipment, along with usage instructions and troubleshooting guidance.</p>
	<p>KATO HD-900 EXCEED Excavator: Advanced Features & Specifications</p> <p>Discover the KATO HD-900 EXCEED series hydraulic excavators, featuring advanced APC technology for optimal performance and fuel efficiency. This brochure details models like the HD-900VII and HD-900V-LC, highlighting their powerful engines, comfortable cabs, and robust construction for demanding job sites.</p>
	<p>KATO Thread Kits: Comprehensive Guide to Thread Repair Solutions</p> <p>Discover KATO Thread Kits, a leading provider of advanced thread repair solutions including Perma-Coil, Perma-Plug, and Perma-Kee. This catalog details high-quality thread repair kits for automotive, industrial, and production applications, emphasizing durability and performance.</p>

Documents - Kato – 20-092

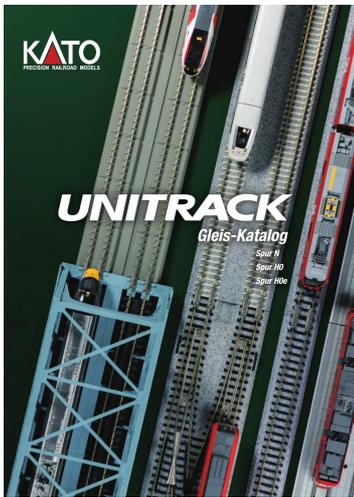


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