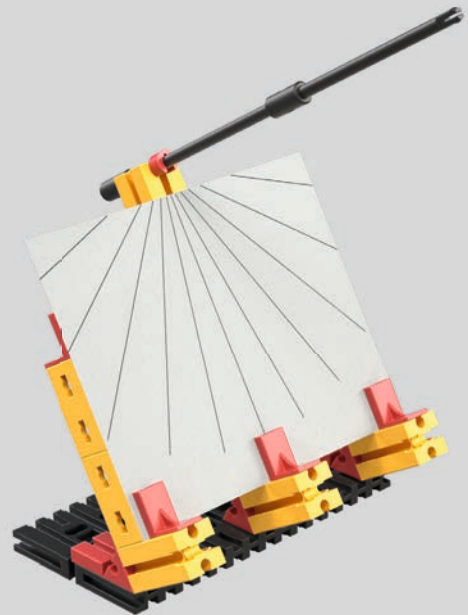
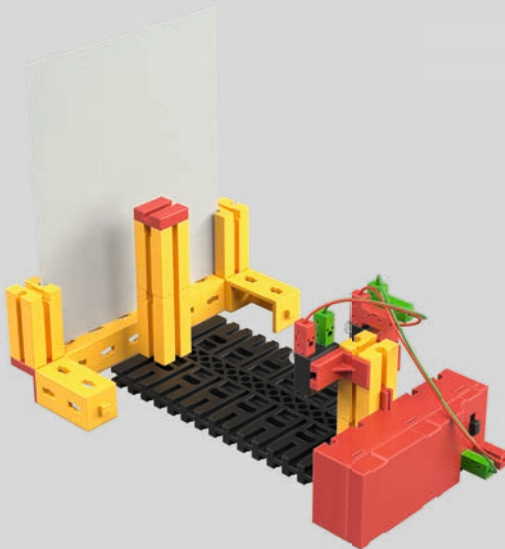
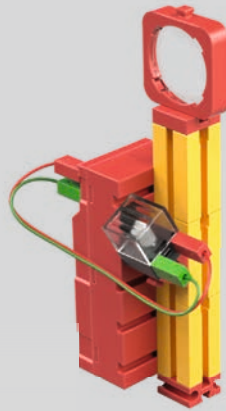


# Class Set Optics

Bauanleitung  
Assembly instruction  
Instructions de montage  
Bouwhandleiding  
Instrucciones de construcción  
Manual de montagem  
Istruzioni di montaggio  
Инструкция по сборке  
安装说明书





- Auf dem fischertechnik eLearning Portal bieten wir Ihnen die Möglichkeit, noch mehr Hintergrundwissen zum Thema des Baukastens zu erhalten und sich umfangreiche didaktische Begleitmaterialien für den Einsatz im Unterricht herunterzuladen. Über **www.fischertechnik-elearning.com** gelangen Sie direkt zum eLearning Portal.
- On the fischertechnik eLearning portal, we offer you the opportunity to obtain even more background knowledge on the subject of the construction kit and to download extensive didactic accompanying materials for use in the classroom. You can access the eLearning portal directly via **www.fischertechnik-elearning.com**.
- Avec le portail eLearning de fischertechnik, vous pouvez parfaire vos connaissances au sujet de la boîte de construction. Cliquez sur **www.fischertechnik-elearning.com** pour accéder directement à notre portail.
- Met het fischertechnik eLearning portaal geven wij u de mogelijkheid, nog meer achtergrondkennis over het thema van het modulaire systeem te verkrijgen. Via **www.fischertechnik-elearning.com** komt u direct bij het eLearning portaal.
- En el portal de eLearning de fischertechnik te ofrecemos la posibilidad de obtener aún más conocimientos de fondo sobre el tema del kit de construcción y de descargar amplios materiales didácticos de acompañamiento para utilizar en el aula. A través de **www.fischertechnik-elearning.com** podrá acceder directamente al portal de aprendizaje electrónico.
- Com o portal de eLearning da fischertechnik damos lhe a possibilidade de obter ainda mais conhecimentos aprofundados sobre os kits de construção. Em **www.fischertechnik-elearning.com** pode aceder diretamente ao portal de eLearning.
- Con il portale eLearning di fischertechnik vi diamo la possibilità di accumulare maggiori informazioni di base sul tema delle scatole di montaggio. Tramite **www.fischertechnik-elearning.com** potete raggiungere direttamente il portale eLearning.
- Обучающий Интернет-портал компании fischertechnik предлагает вам возможность получить больше базовых знаний по теме конструирования. По ссылке **www.fischertechnik-elearning.com** вы попадаете прямо на обучающий Интернет-портал.
- 通过 fischertechnik eLearning 电子学习门户网站，我们为您提供更多关于积木的背景知识。登陆 **www.fischertechnik-elearning.com** 访问我们的 elearning 门户网站。

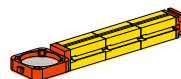
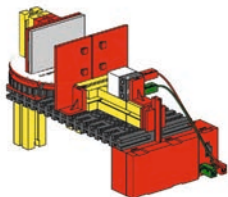
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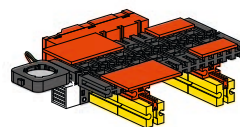
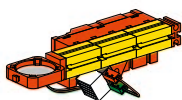
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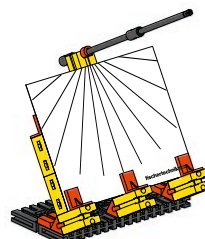
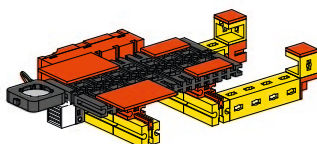
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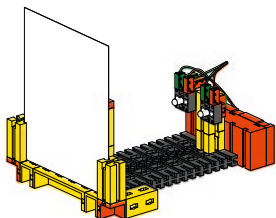
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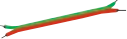
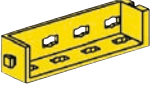











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**Einzelteilübersicht**  
**Spare parts list**  
**Liste des pièces détachées**

	31 010 3 x
	31 019 1 x
	31 022 1 x
	31 058 1 x
	31 061 4 x
	31 982 4 x
	32 870 1 x
	35 031 1 x
	35 049 2 x
	35 053 2 x
	35 066 1 x
	35 073 2 x
	35 086 1 x
	35 087 1 x

**Onderdelenoverzicht**  
**Lista da piezas**  
**Resumo de peça individual**

	35 129 1 x
	36 210 1 x
	36 297 1 x
	36 298 2 x
	36 299 2 x
	37 034 1 x
	37 237 3 x
	37 468 4 x
	37 679 1 x
	38 240 2 x
	38 241 2 x
	38 246 2 x
	38 248 3 x
	38 413 1 x

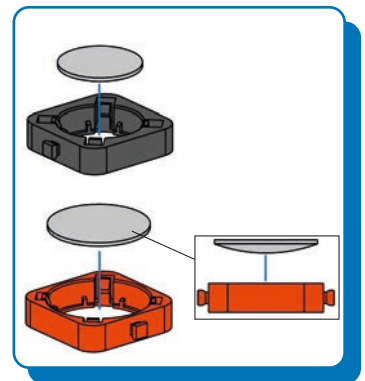
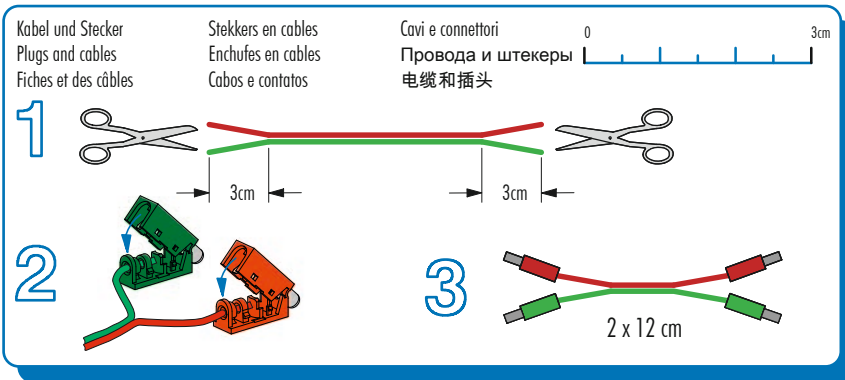
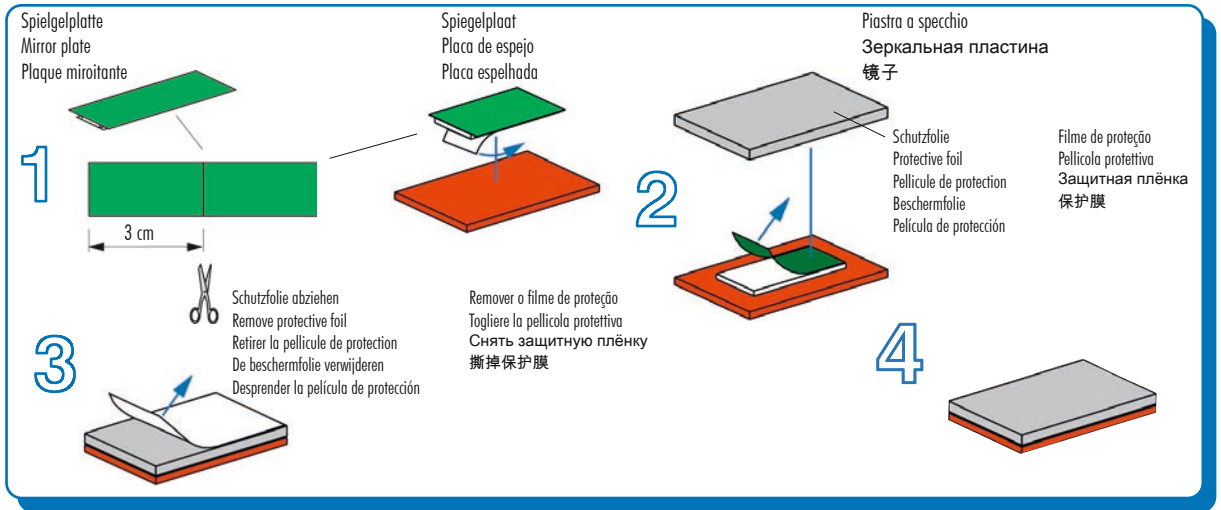
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	38 423 5 x
	135 719 1 x
	136 528 6 x
	136 529 1 x
	145 860 1 x
	145 862 1 x
	145 863 1 x
	145 864 1 x
	146 373 1 x
	162 135 2 x
	181 583 4 x
	181 584 4 x
	183 288 1 x

**Montagetipps**  
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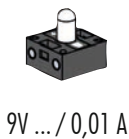


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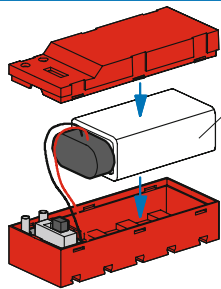
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**安全指南**

LED  
 LED  
 LED  
 LED  
 LED  
 LED  
 LED  
 LED  
 LED



Achtung: Beim Anschluß auf richtige Polung achten.  
 Caution: Make sure the terminals are connected correctly.  
 Attention: lors du raccordement, veiller à ce que la polarisation soit exacte.  
 Pas op: let bij het aansluiten op de juiste polariteit.  
 Atención: al conectar, procurar que los polos estén correctamente colocados.  
 Atenção: Por ocasião da conexão atentar para a polaridade correta.  
 Attenzione: nel collegamento osservare la corretta polarità.  
 Внимание: при подключении соблюдать полярность.  
 注意: 连接时应注意极性正确。



Batterie ist nicht Inhalt der Packung  
Battery not included  
Batterie non comprise  
De batterij wordt niet meegeleverd  
La batería no está incluida en el suministro  
A bateria não é o conteúdo da embalagem  
La batteria non è inclusa nella confezione  
Батарея в комплект не входит  
包装中不含电池

#### 1 Batterie 9Volt-Block Alkaline

- Nicht wiederaufladbare Batterien dürfen nicht geladen werden
- Aufladbare Batterien dürfen nur von Erwachsenen geladen werden
- Aufladbare Batterien sind aus dem Batteriehalter herauszunehmen, bevor sie geladen werden.
- Batterien müssen mit der richtigen Polarität eingelegt werden.
- Leere Batterien müssen aus dem Spielzeug herausgenommen werden
- Die Anschlussklemmen dürfen nicht kurzgeschlossen werden.
- Verbrauchte Batterien dem Sondermüll zuführen.
- Drähte nicht in Steckdose einführen!
- Ladegerät regelmäßig auf Schäden überprüfen. Bei einem Schaden darf das Ladegerät bis zur vollständigen Reparatur nicht mehr verwendet werden.
- Achtung! Durch (Schaltungs-) Fehler oder unzulässige Veränderungen können Temperaturerhöhungen an berührbaren Oberflächen die zulässigen Grenzwerte überschreiten.
- Durch eine zu hohe Spannung oder durch einen Kurzschluss können elektronische Bauteile zerstört werden.

#### 9V rechargeable battery

- Do not attempt to charge NON-rechargeable batteries.
- Rechargeable batteries are only to be charged by adults.
- Take rechargeable batteries out of the battery tray before charging them.
- Insert batteries with the correct polarity.
- Remove dead batteries from the toy.
- Do not short circuit the connecting terminals!
- Discard spent dry cells at special waste disposal centre.
- Do not insert the wires into an outlet!
- Regularly inspect battery charger for damage. If the battery charger has been damaged, it should not be used further until fully repaired.
- Caution! (Connection) errors or unauthorized changes can cause temperature increases on exposed surfaces that can exceed allowable limits.
- Impermissibly high voltage or a short circuit can destroy electronic components.

#### pila 9V

- Il est interdit de recharger des piles qui ne sont pas des accumulateurs
- Le chargement des accumulateurs doit toujours se faire par des adultes
- Retirer les accumulateurs du support de pile avant de les recharger.
- Veiller à la polarité correcte lors de la mise en place des piles.
- Retirer impérativement les piles ou accumulateurs vides du jouet.
- Il est interdit de court-circuiter les bornes de raccordement.
- Jeter les piles usagées dans un conteneur spécial réservé à cet effet.
- Ne pas introduire les fils dans une prise!
- Contrôlez régulièrement le chargeur en vue d'éventuelles détériorations
- En cas de détérioration, il est interdit d'utiliser le chargeur jusqu'à ce qu'il ait été intégralement réparé
- Attention! Les erreurs (de commutation) ou les modifications inadmissibles peuvent avoir pour effet d'augmenter la température des surfaces, qu'on peut toucher, au-delà des valeurs limites admissibles.
- Une tension trop élevée ou un court-circuit risque de détériorer les éléments de construction électroniques.

#### alkaline batterije

- Niet-oplaadbare batterijen mogen niet worden opgeladen.
- Opladbare batterijen mogen uitsluitend door volwassenen worden opgeladen.
- Opladbare batterijen moeten uit de batterijhouder worden verwijderd, voordat deze worden opgeladen.
- De batterijen moeten met de juiste polariteit worden geplaatst.
- Lege batterijen moeten uit het speelgoed worden verwijderd.
- De aansluitklemmen mogen niet worden kortgesloten.
- Afgeleven gebruikte batterijen bij het klein chemisch afval (KCA).
- Geen draden in de contactdoos steken!
- Laadtoestel regelmatig controleren op schade. Bij schade mag het laadtoestel niet meer gebruikt worden tot het volledig hersteld is.
- Attentie! Door (schakel-)fouten of ontoelaatbare veranderingen kunnen temperatuurverhogingen ontstaan op aanraakbare oppervlakken die de toegestane grenswaarden overschrijden.
- Door een te hoge spanning of door kortsluiting kunnen elektronische componenten onherstelbaar worden beschadigd.

#### pila alcalina bloque de 9 Voltios

- Las pilas no recargables no pueden ser cargadas
- Las pilas recargables sólo pueden ser cargadas por un adulto
- Las pilas recargables deben ser extraídas del compartimiento de pilas antes de que sean cargadas.
- Las pilas deben ser colocadas con la polaridad correcta.
- Las pilas descargadas deben ser extraídas del juguete
- Los bornes de conexión no pueden ser puestos en cortocircuito.
- Retirar las baterías viejas, desechándolas en un depósito de basuras especiales.
- No introducir hilos en la toma de corriente!
- Comprobar con regularidad si el cargador presenta daños. En caso de presentar daños, el cargador no debe volver a ser utilizado hasta que esté completamente reparado.
- ¡Atención! Debido a errores (de circuito) o modificaciones inadmisibles, los incrementos de temperatura en superficies de contacto pueden sobrepasar los valores límite admisibles.
- Debido a una tensión demasiado elevada o por un cortocircuito se pueden destruir componentes electrónicos.

#### Bateria alcalina de bloco de 9 V

- Pilhas não recarregáveis não devem ser novamente carregadas.
- Pilhas recarregáveis somente devem ser recarregadas por adultos.
- Pilhas recarregáveis devem ser retiradas do compartimento de pilhas antes de serem carregadas.
- As pilhas devem ser colocadas com a polaridade correta.
- As pilhas descarregadas devem ser retiradas do brinquedo.
- Os terminais de conexão não devem ser curto-circuitados.
- Eliminar as baterias esgotadas como desperdício perigoso
- Nunca introduzir fios na tomada!
- Verificar regularmente se o carregador apresenta danos. Em caso de dano, o carregador não deverá ser utilizado enquanto não estiver plenamente consertado.
- Atenção! Através de erros (de conexão) ou alterações inadmissíveis, os aumentos de temperatura podem exceder os valores limite admissíveis em superfícies expostas a contato.
- Devido a uma tensão muito alta ou devido a um curto-circuito, os componentes podem ser destruídos.

#### 1 batteria alcalina da 9V

- Le batterie non ricaricabili non devono essere ricaricate
- Le batterie ricaricabili devono essere ricaricate da persone adulte
- Le batterie ricaricabili si devono estrarre dal supporto prima di ricaricarle.
- Le batterie si devono inserire rispettando la polarità.
- Togliere le batterie dal giocattolo quando sono scariche.
- I morsetti di allacciamento non devono essere cortocircuitati.
- Smaltire le batterie usate negli appositi contenitori per la raccolta differenziata.
- Non inserire i fili nella presa elettrica.
- Controllare periodicamente se il caricabatterie presenta dei danni. In caso di danni, il caricabatterie non deve più essere utilizzato fino alla riparazione.
- Attenzione! Errori (di cablaggio) o modifiche non consentite possono fare aumentare oltre i limiti ammessi la temperatura delle superfici che si possono toccare.
- Una tensione troppo elevata o un cortocircuito possono distruggere i componenti elettronici.

#### 1 алкалиновая батарейка на 9 В

- Не пытаться заряжать неперезаряжаемые батарейки.
- Зарядку перезаряжаемых аккумуляторов разрешается выполнять только взрослым.
- Перед зарядкой перезаряжаемых аккумуляторов извлеките их из аккумуляторного отсека.
- При установке аккумуляторов на место соблюдайте полярность.
- Разряженные батарейки необходимо извлечь из игрушки.
- Не замыкайте коротко соединительные клеммы.
- Использованные батареи утилизировать как спецотходы.
- Не вставляйте в розетку провода!
- Регулярно проверяйте зарядное устройство на отсутствие повреждений. При наличии повреждений использование зарядное устройство до выполнения его полного ремонта не разрешается.
- Внимание! Из-за ошибок (в соединениях) или неразрешенных изменений возможен нагрев касаемых поверхностей выше допустимых значений.
- Из-за высокого напряжения или короткого замыкания может произойти разрушение электронных деталей.

#### 1 个 9V 的碱性电池或

- 不得给非充电电池充电
- 只允许由成年人给充电电池充电
- 在充电前必须将充电电池从电池夹中取出。
- 必须按照正负极正确放入电池。
- 必须从玩具中取出没有电的电池
- 接线柱不允许被短路。
- 用完了的电池应作为特种垃圾处理。
- 禁止将金属丝插入插座!
- 经常检查充电器是否有损坏情况。如果充电器有损，直到完全修好为止不可以再使用。
- 注意! 由于(接线)故障或未经允许的改装可能会使接触表面的温度超过允许的极限值。
- 过高的电压或者短路可能会损坏电子部件。

Das Spielzeug darf nur mit einer der folgenden fischertechnik Energiequellen benutzt werden:

- Art.-Nr.: 135719 Batteriehalter 9V oder Art.-Nr.: 35537 Accu Pack 8,4V.
- The toy may only be used with one of the following fischertechnik energy sources:  
Art No.: 135719 battery tray 9V or Art No.: 35537 Accu Pack 8.4V. You are not allowed to use 9V NiMH accu packs in this product.
- L'utilisation de ce jouet n'est permis qu'avec l'une des sources d'énergie fischertechnik suivantes:  
Art. n° : 135719 support de pile 9 volts ou Art. n° : 35537 pack d'accumulateurs 8,4 volts.
- Het speelgoed mag uitsluitend met een van de volgende fischertechnik energiebronnen worden gebruikt: art.nr.: 135719 batterijhouder 9V of art.nr.: 35537 accupack 8,4V
- El juguete se debe utilizar únicamente con una de las siguientes fuentes de energía:  
Art. No. 135719 soporte de pila de 9V o Art. No. 35537 paquete acumulador de 8,4V.

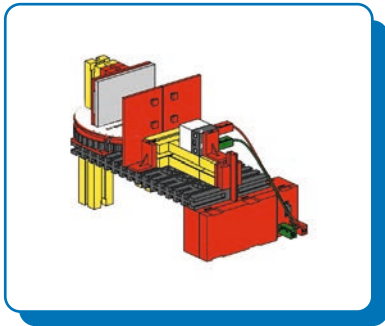
O brinquedo somente pode ser utilizado com uma das seguintes fontes de energia da fischertechnik: art. n°: 135719 Suporte de bateria de 9 V ou art. n°: 35537 Bloco de bateria de 8,4V.

- Questo giocattolo può essere utilizzato solo con le seguenti fonti di energia fischertechnik: cod. prod.: 135719 portabatteria da 9V oppure cod. prod.: 35537 confezione batterie da 8,4V.
- Игрушку можно использовать только с одним из следующих источников энергии от fischertechnik: арт. №: 135719 держатель батарейки 9В или арт. №: 35537 Accu Pack 8,4В
- 该玩具只允许使用如下的慧鱼 (fischertechnik) 能量源: 商品号: 135719, 9V 电池夹, 或者商品号: 35537, 8.4V 电池套件 (Accu Pack)



Hinweise zum Umweltschutz / Instructions for Environmental Protection / Remarques de protection de l'environnement / Bescherming van het milieu / Notas con respecto a la protección del medio ambiente / Instruções para a proteção do meio ambiente / Indicazioni sulla tutela ambientale / Указания по охране окружающей среды / 有关环保的提示:

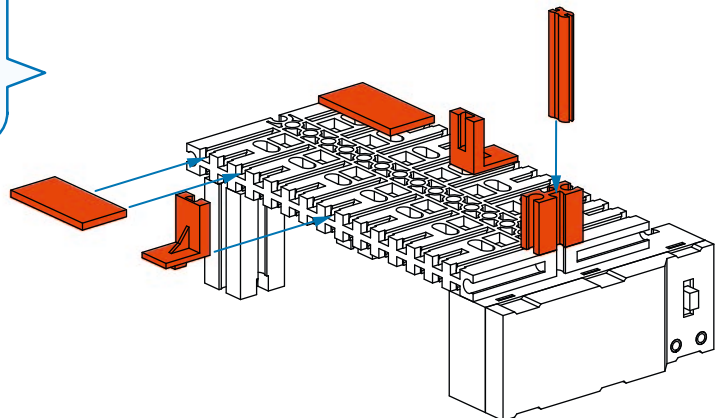
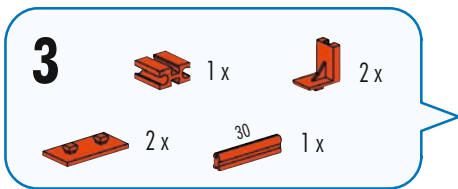
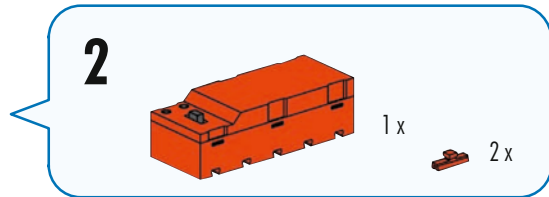
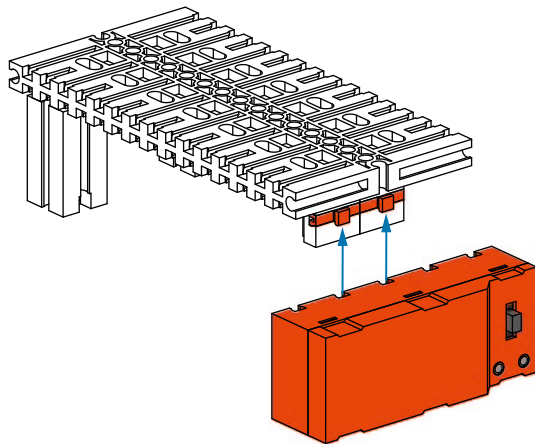
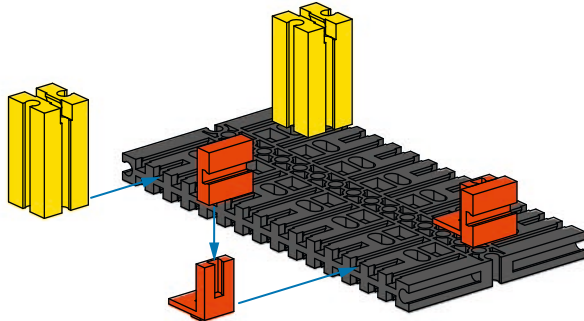
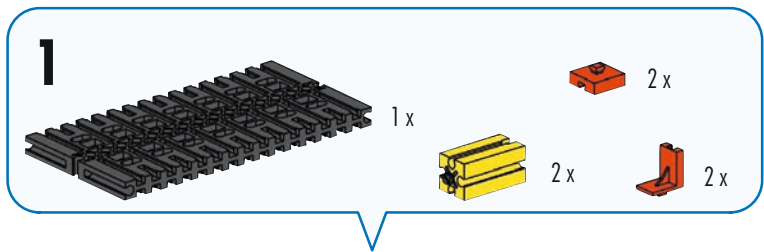
[www.fischertechnik.de/environment](http://www.fischertechnik.de/environment)




Winkelmesser mit Schlitzblende  
 Protractor with slit aperture  
 Rapporteur à diaphragme fendu  
 Protractor met spleetdiafragma



Transportador con diafragma de  
 hendidura  
 Protractor com diafragma  
 cortado

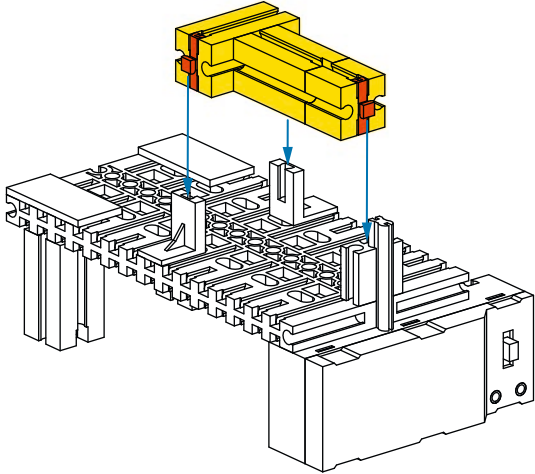
Goniometro con diaframma a  
 fessura  
 Тягач со щелевой  
 диафрагмой  
 帶縫隙隔膜的量角器






**4**



2 x  2 x

2 x  1 x 

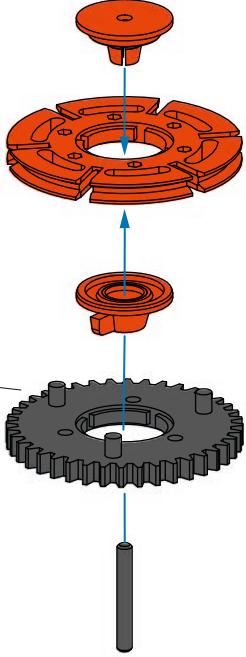
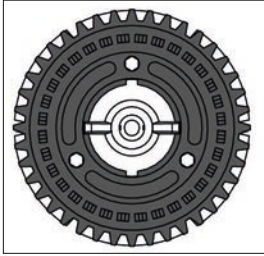


**5**

1 x  1 x  1 x  30 1 x



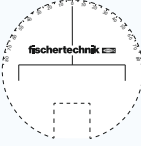


1 x  1 x  1 x

30 mm

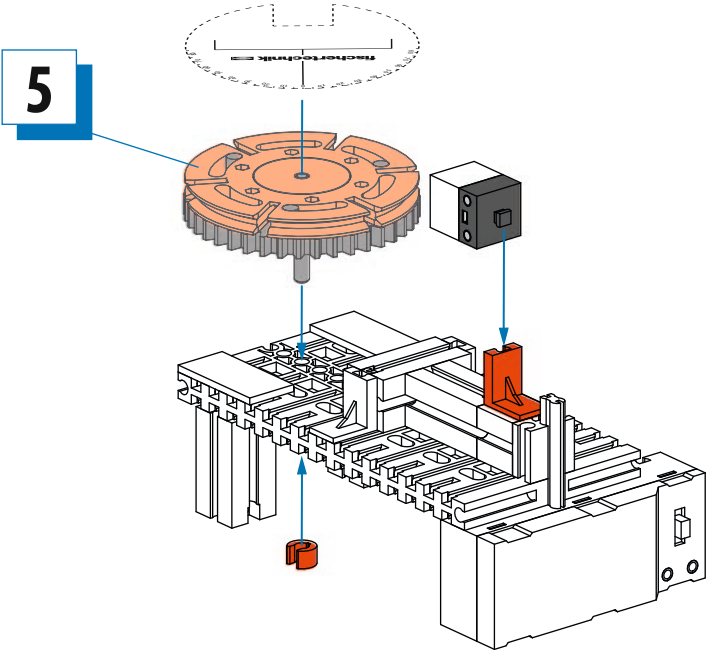
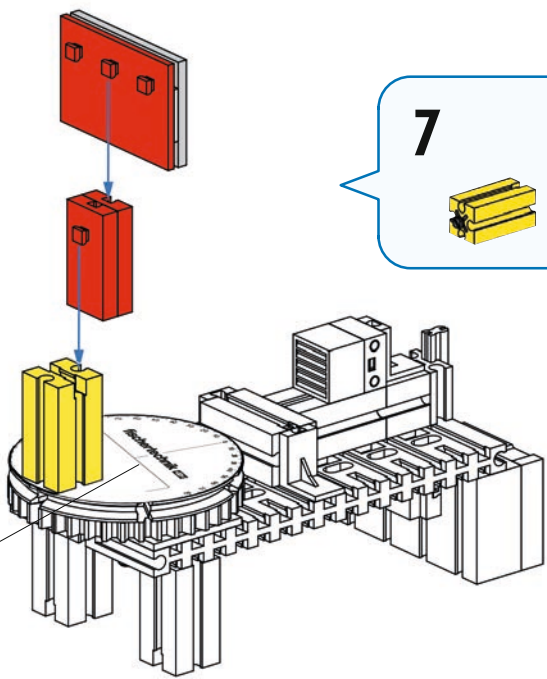






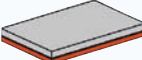
**6**

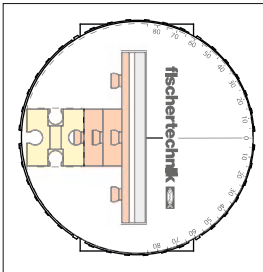
 1x  
  1x  
  1x  
 1x  
  1x

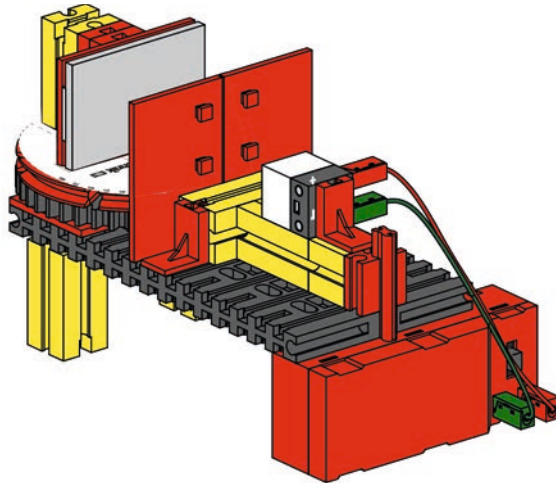
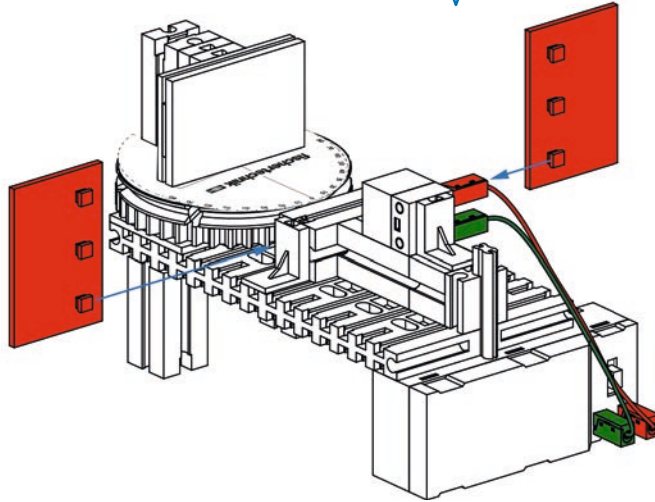
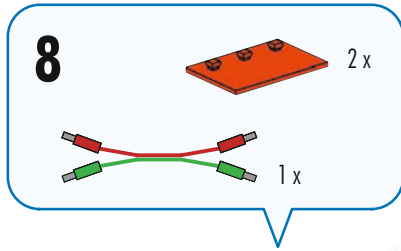
**5**

**7**

 1x  
  2x  
  1x

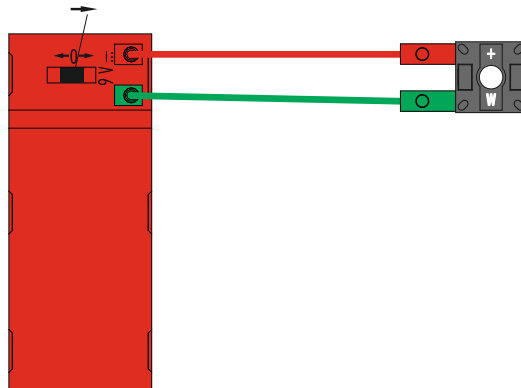


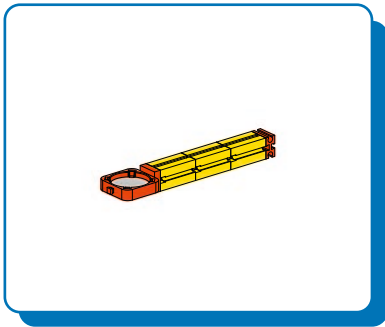


Schaltplan  
 Circuit diagram  
 Plan électrique

Schakelschema  
 Diagrama de circuitos  
 Plano elétrico de ligação

Schema elettrico  
 Схема подключения  
 电路图





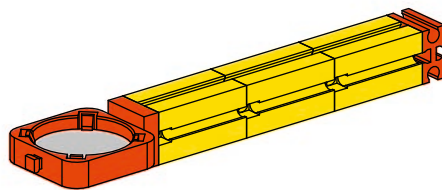
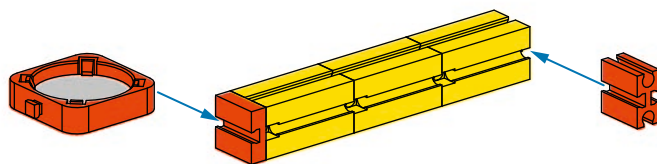
**Lupe**  
**Magnifier**  
**Loupe**

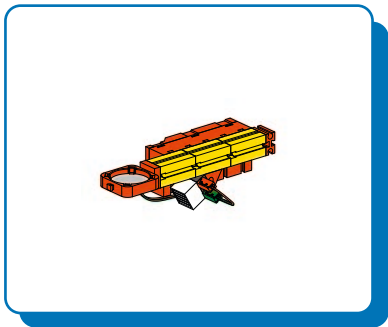
**Vergrootglas**  
**Lupa**  
**Ampliator**

**Lente d'ingrandimento**  
нЛупа  
放大镜

**1**

3x 1x 1x 1x








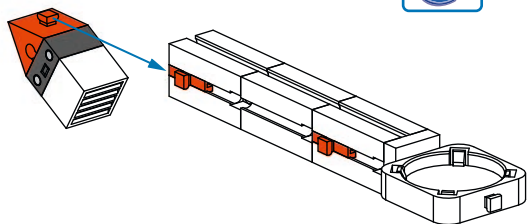
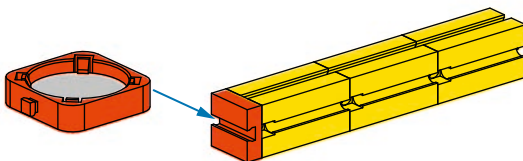
Lupe mit Beleuchtung  
Magnifier with illumination  
Loupe avec éclairage  
Loop met verlichting

Lupa con iluminación  
Amplificador com iluminação  
Lente d'ingrandimento con  
illuminazione





Улучитель с  
подсветкой  
帶照明的放大鏡

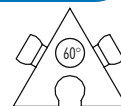
**1**

3 x  1 x  1 x 

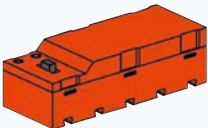


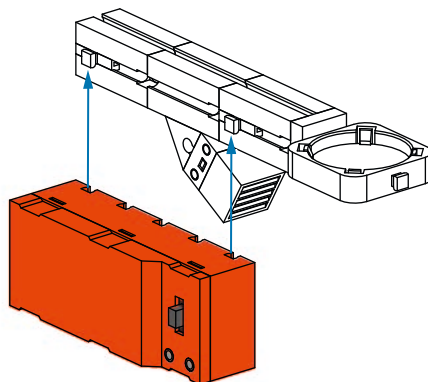
**2**

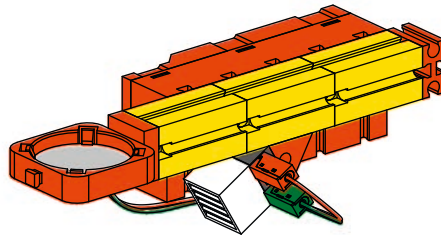
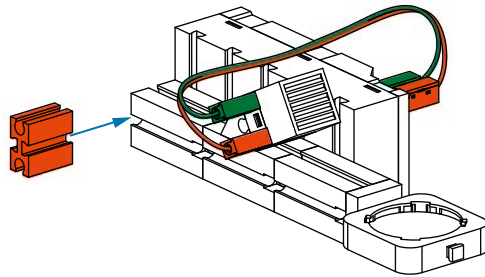
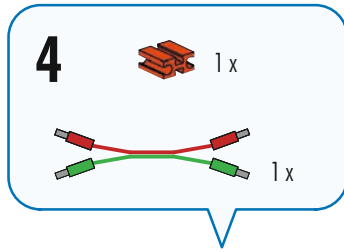
1 x  1 x  1 x  1 x  2 x



**3**

1 x 

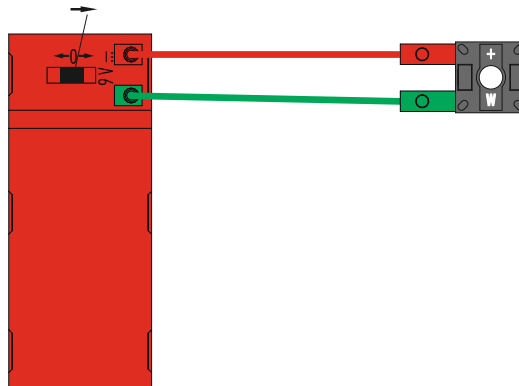


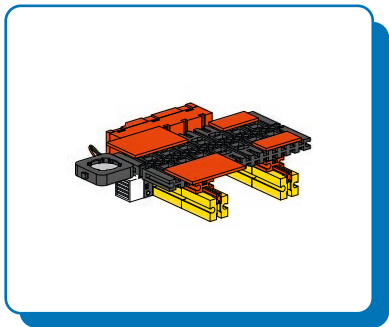


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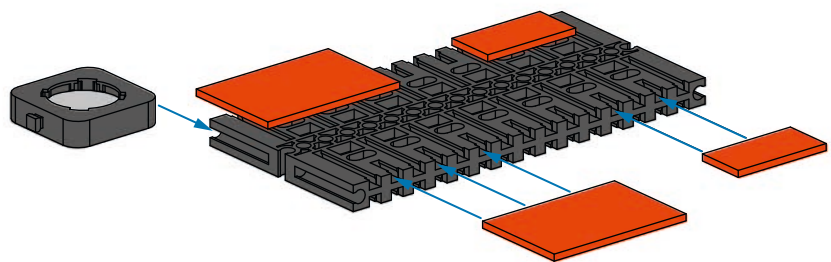
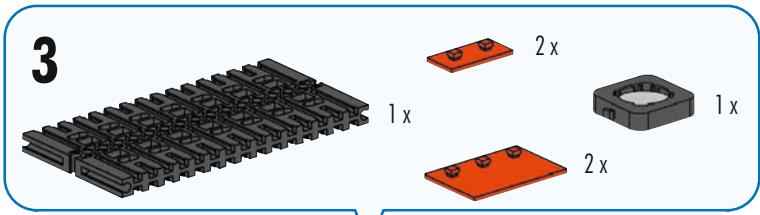
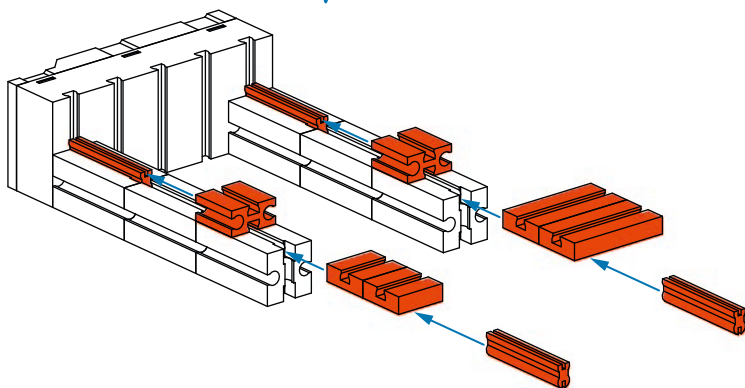
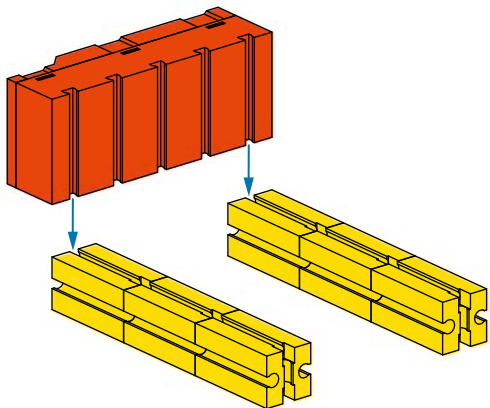
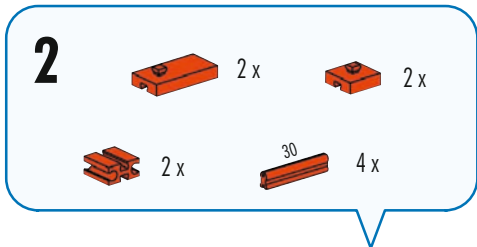
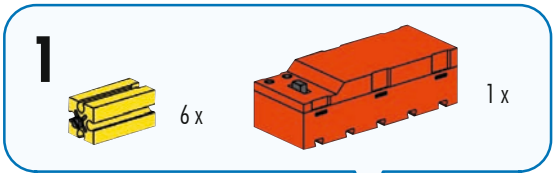


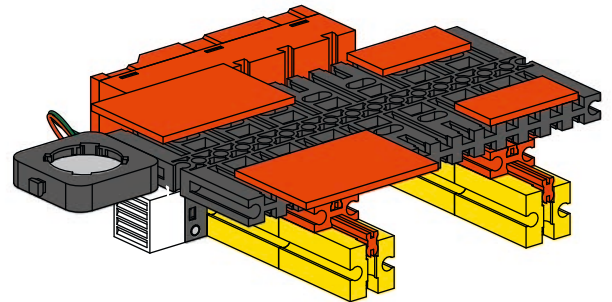
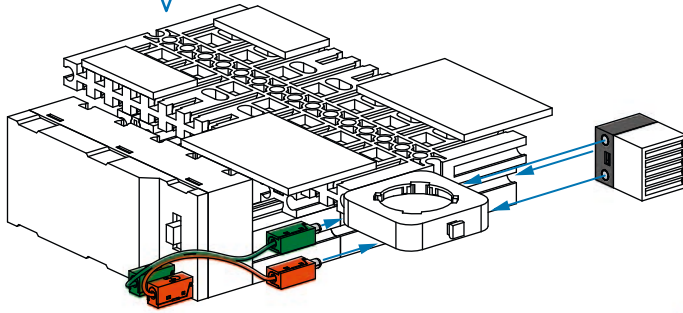
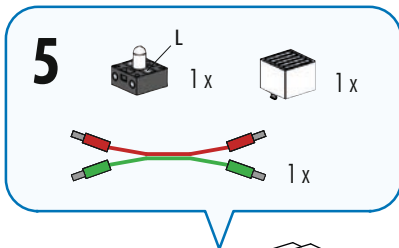
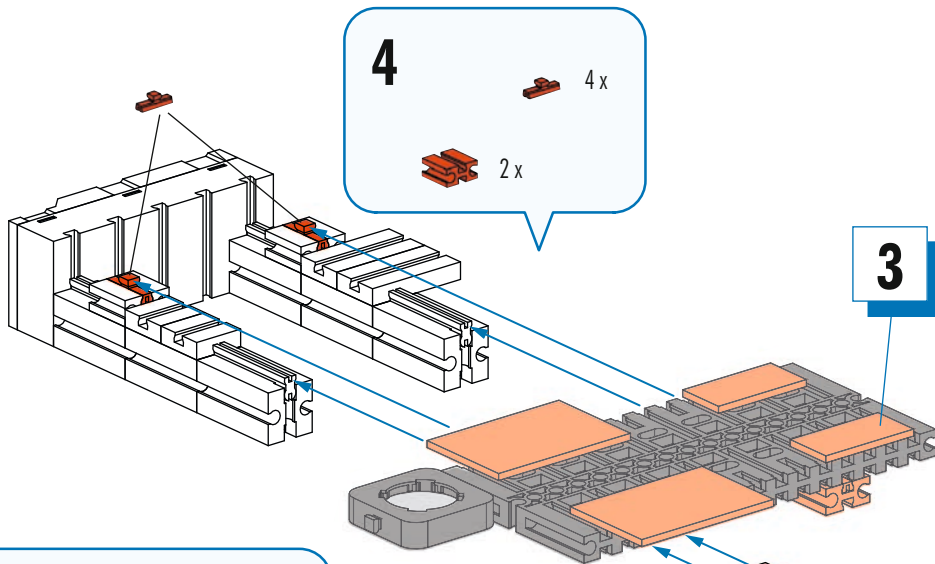


Smartphonelupe  
 Smartphone magnifier  
 Loupe pour smartphone  
 Smartphone vergrootglas

Lupa para smartphone  
 Ampliador para Smartphone  
 Lente d'ingrandimento per  
 smartphone

увеличитель для  
 смартфона  
 智能手机放大镜

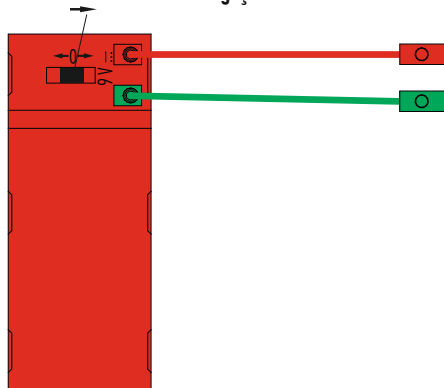


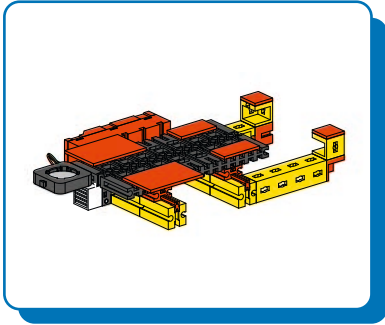


Schaltplan  
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Схема подключения  
电路图





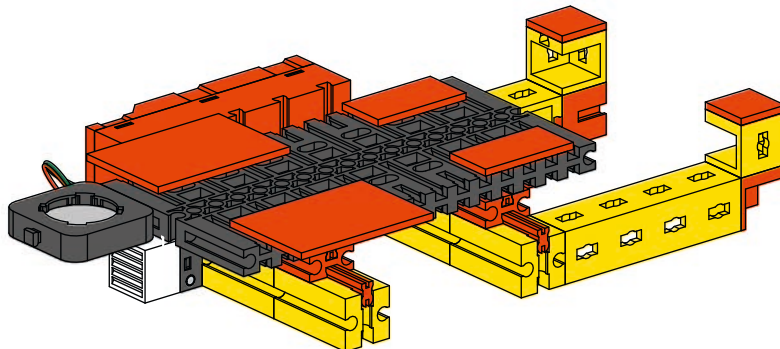
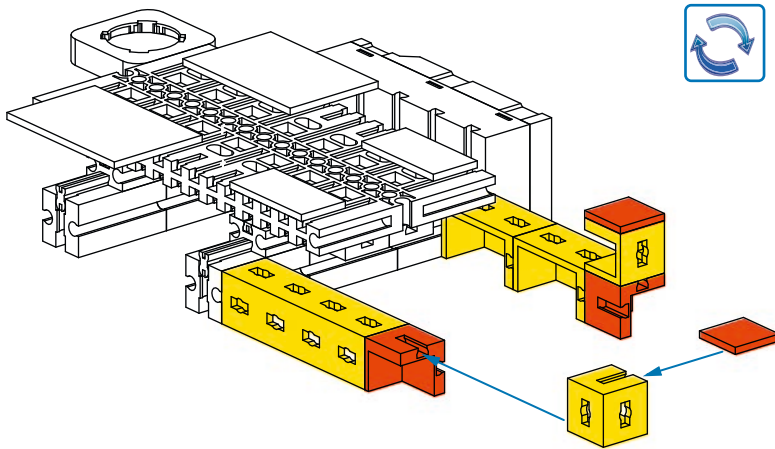
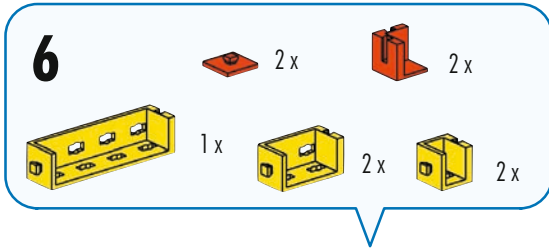
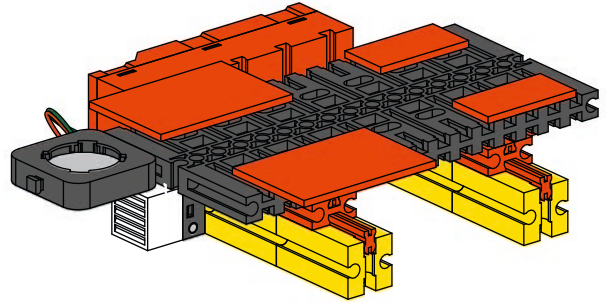
**Tabletlupe**  
**Tablet magnifier**  
**Loupe de tablette**

**Tablet vergrootglas**  
**Lupa para tabletas**  
**Lupa de mesa**

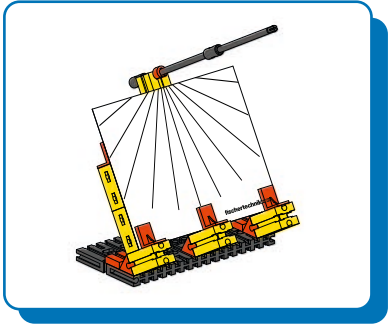
**Lente d'ingrandimento**  
**per tablet**  
 таблетированная лупа  
 平板电脑放大镜

# 1-5

Seite 12  
 Page 12  
 Page 12  
 Bladzijde 12  
 Pàgina 12  
 Pagina 12  
 Pagina 12  
 Страница 12  
 页次 12







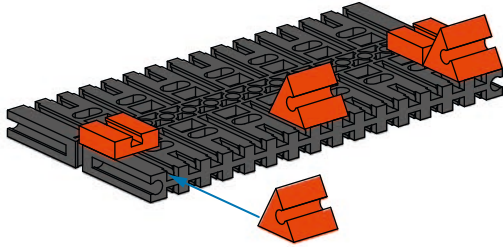
Sonnenuhr  
Sundial  
Cadran solaire

Zonnewijzer  
Reloj de sol  
Relógio de sol

Meridiana  
Сандиал  
日晷

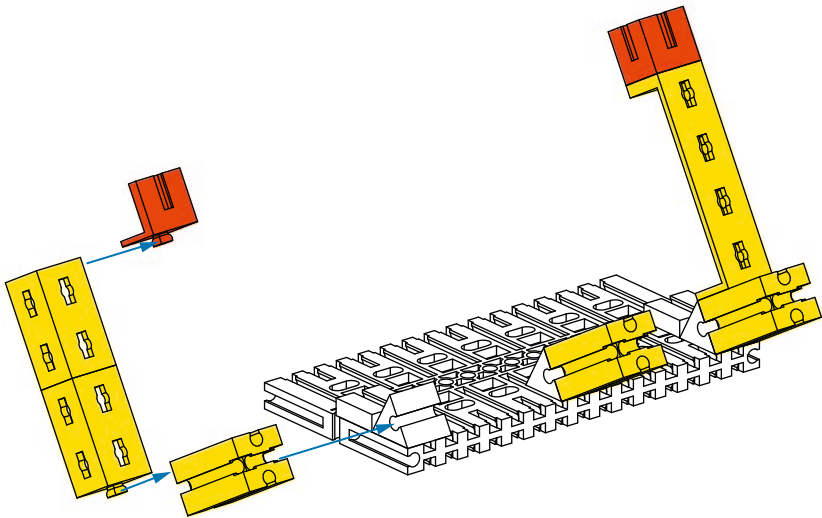
**1**

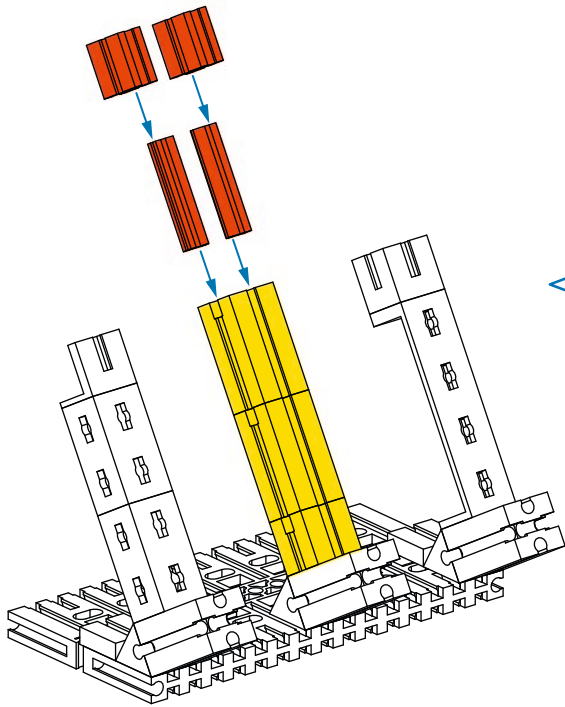
1 x  
2 x  
60° 3 x



**2**

2 x  
1 x 2 x 3 x





**3**

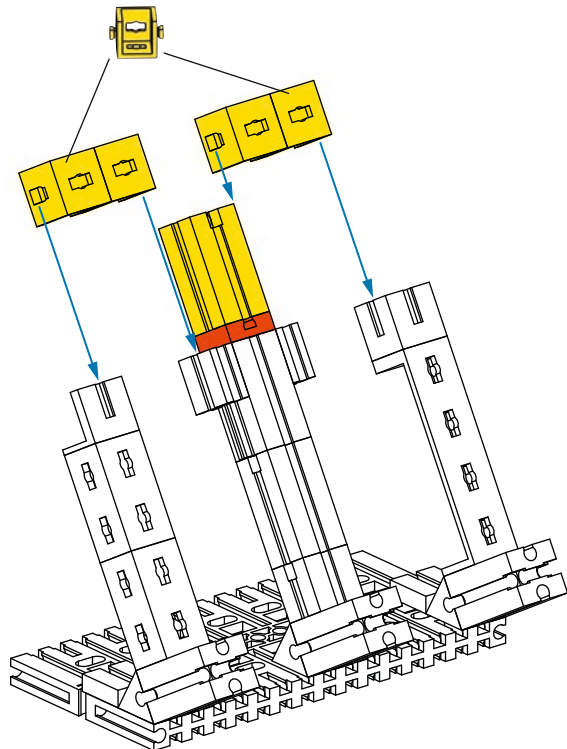
30 2x    2x

2x    1x

**4**

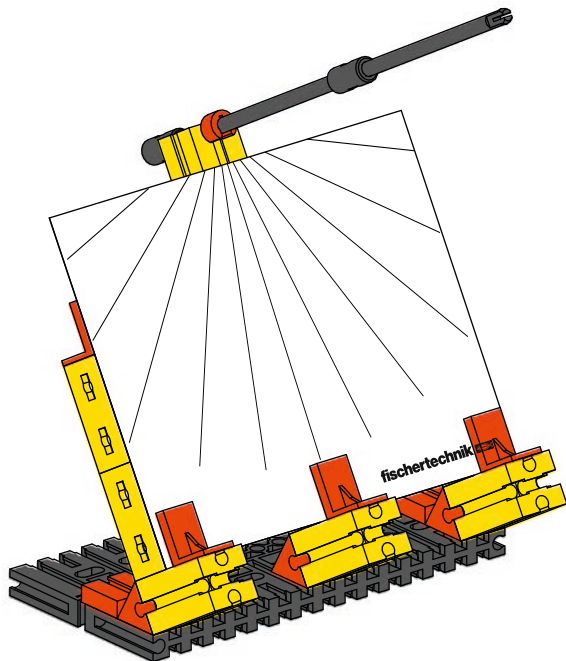
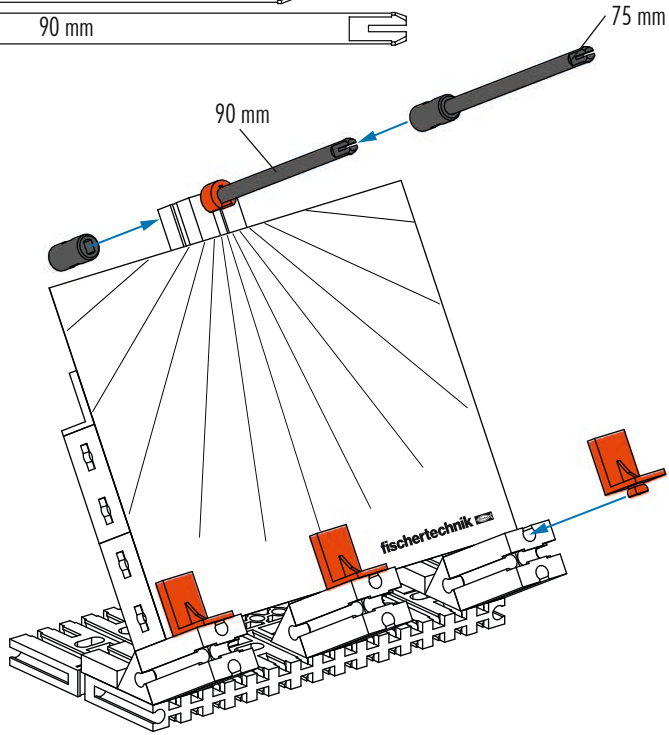
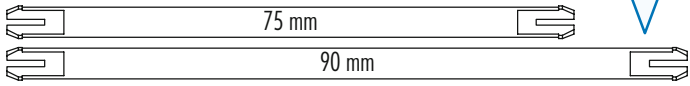
2x    2x

1x    1x



**5**

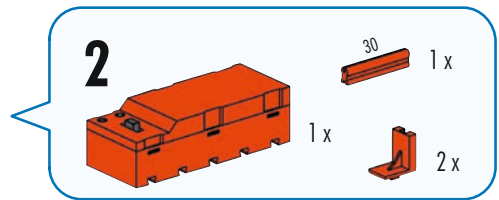
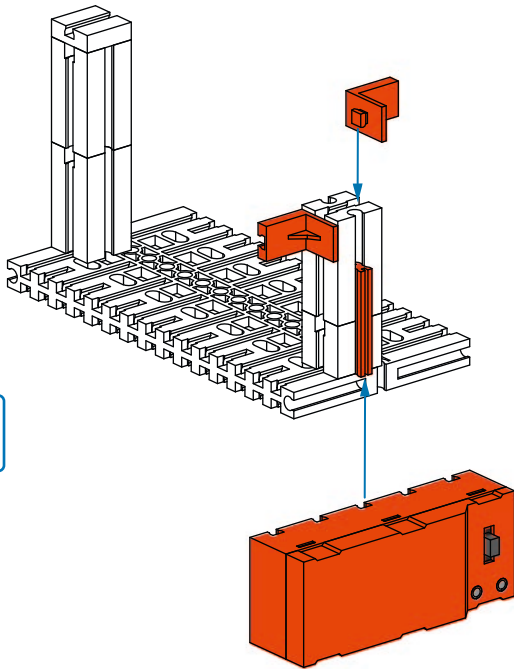
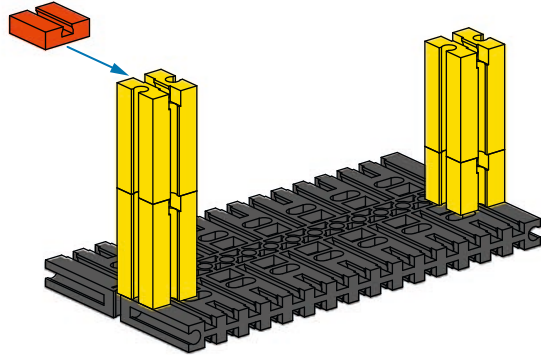
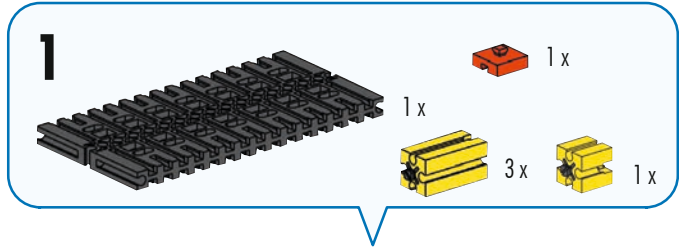
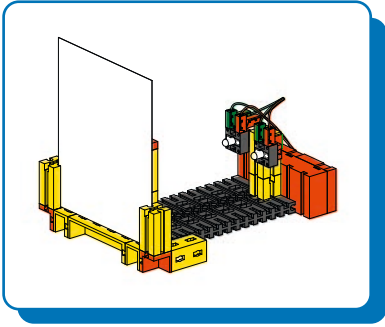
- 2 x [Black Pin]
- 3 x [Red Bracket]
- 1 x [Red Pin]
- 1 x [90 mm Black Rod]
- 1 x [75 mm Black Rod]
- 1 x [Technical Drawing]



Schattenexperiment  
Shadow experiment  
Expérience de l'ombre

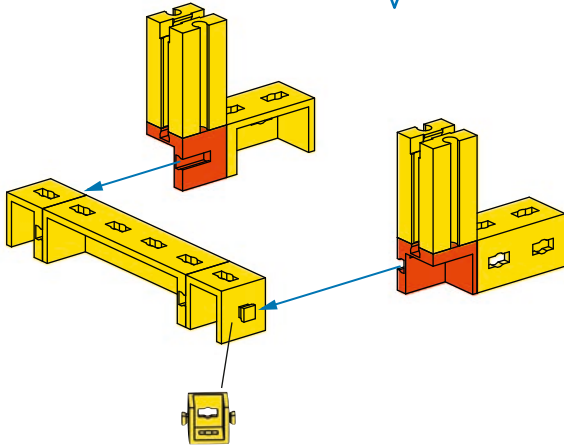
Schaduwexperiment  
Experimento de la  
sombra

Experiència Sombra  
Esperimento dell'ombra  
Эксперимент Теней  
影子实验



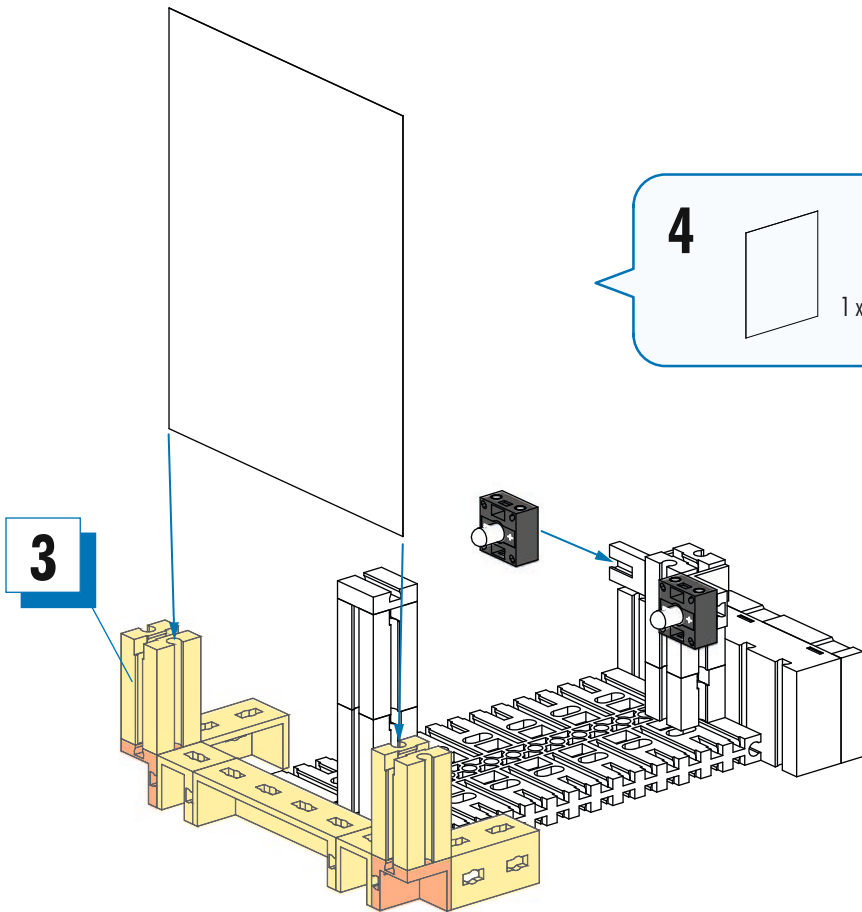
**3**

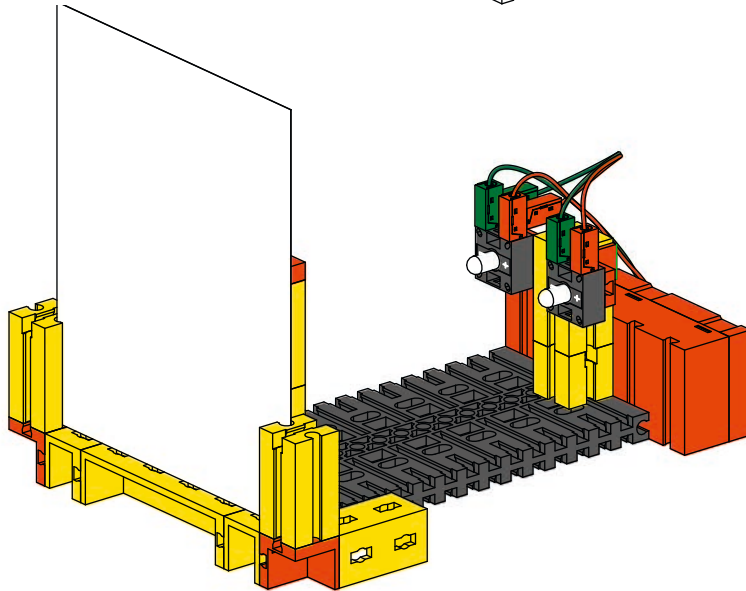
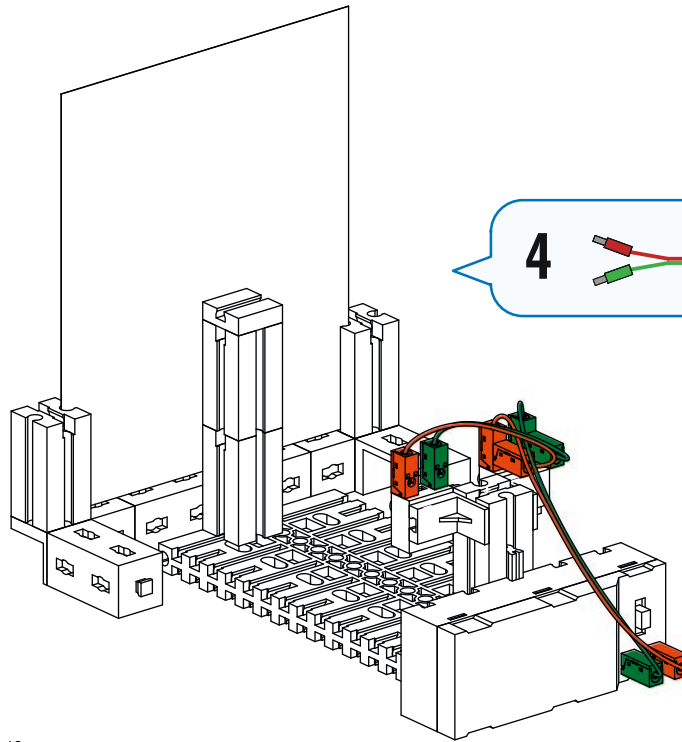
- 1x [Yellow 1-hole Technic Beam]
- 2x [Red 1-hole Technic Beam]
- 2x [Yellow 2-hole Technic Beam]
- 1x [Yellow 3-hole Technic Beam]
- 2x [Yellow 1-hole Technic Beam]
- 1x [Yellow 1-hole Technic Beam]



**4**

- 1x [White Panel]
- 2x [Black L-shaped Technic Connector]

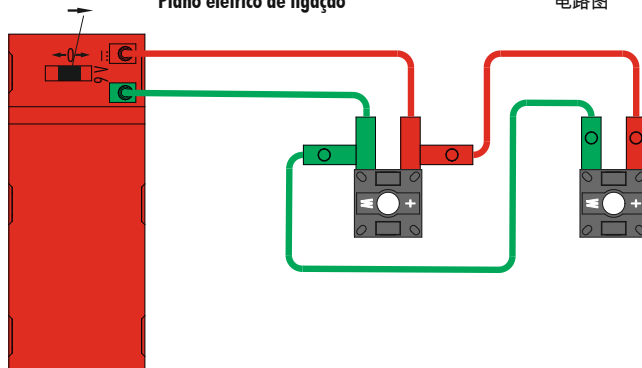


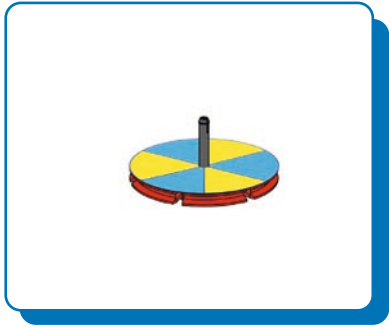


Schaltplan  
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Schema elettrico  
Схема подключения  
电路图





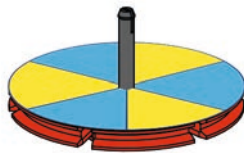
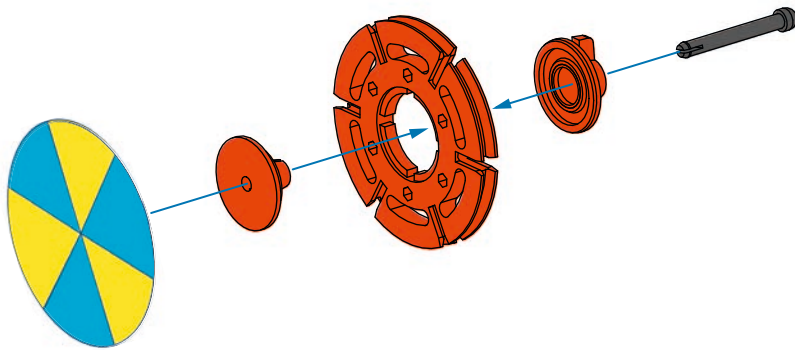
**Kreisel**  
**Roundabout**  
**Rond-point**

**Rotonde**  
**Rotonda**  
**Rotunda**

**Rotonda**  
Кругосветка  
绕行

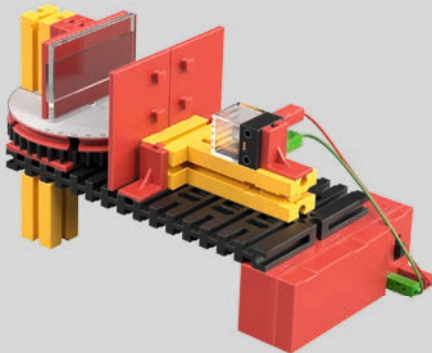
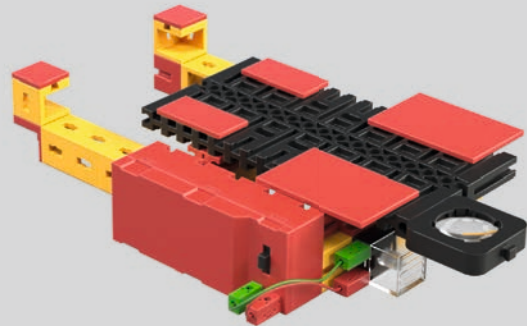
**1**

- 1x (orange top cap)
- 1x (grey axle)
- 1x (orange ring)
- 1x (orange bottom cap)
- 1x (yellow and blue circular disc)



# Class Set Optics

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Fax: +49 74 43/12-45 91  
info@fischertechnik.de  
www.fischertechnik.de



183286 - 02/21 - Co - Printed in Germany - Technische Änderungen vorbehalten - Subject to technical modifications

**S** **T** **E** **M** **M**ATHEMATIK  
**I** **N**FORMATIK  
**N**ATURWISSENSCHAFT  
**T**ECHNIK

 SCIENCE  TECHNOLOGY  ENGINEERING  MATHEMATICS

## 6 Models