



fischertechnik 

ROBOTICS

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

Didactic Information

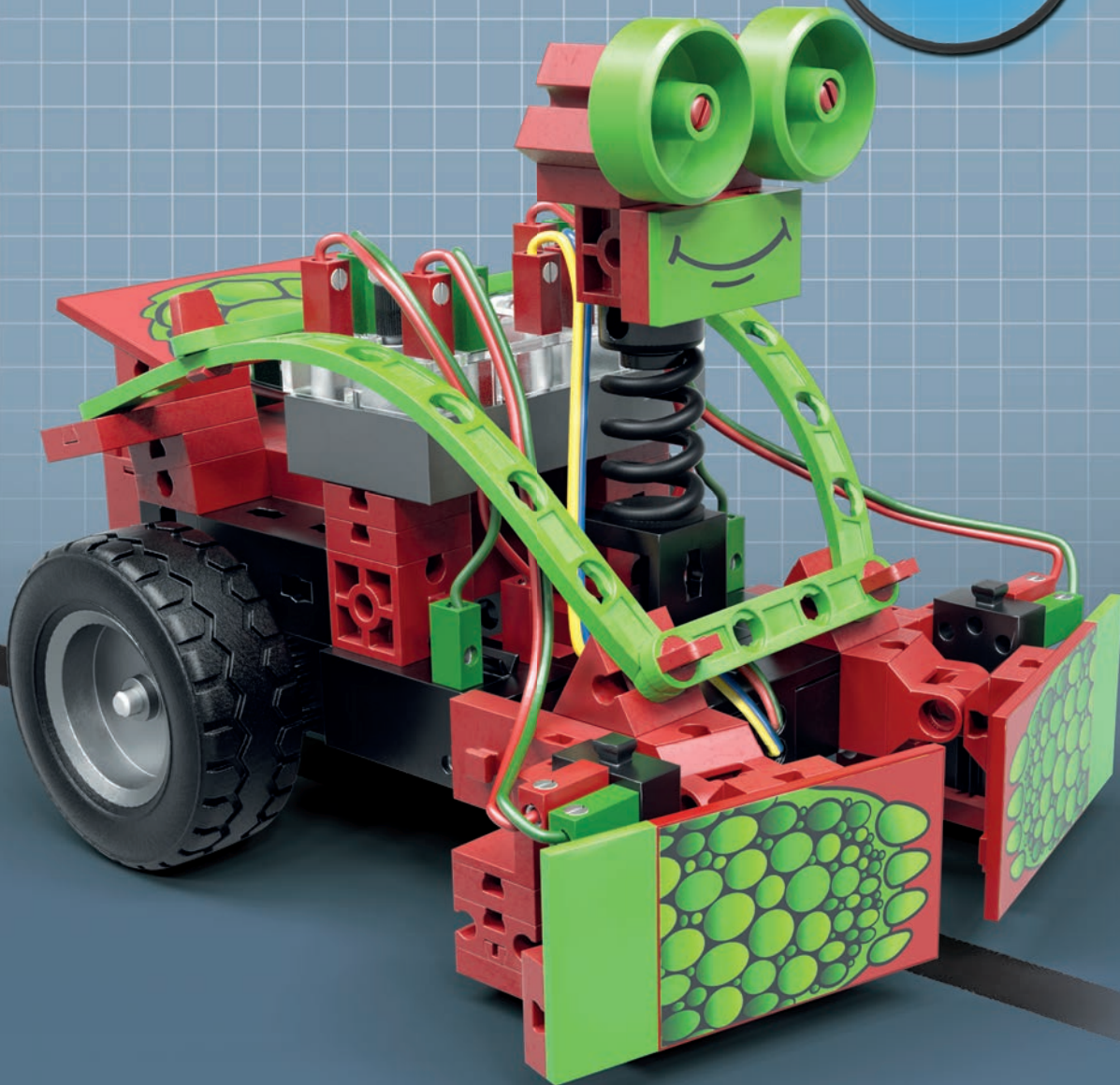
www.fischertechnik-eLearning.com

free download



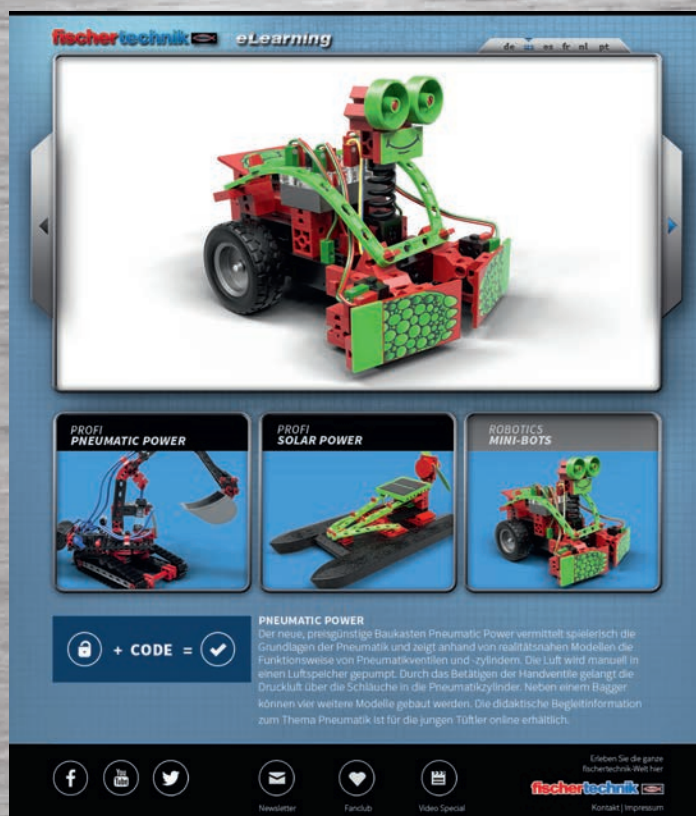
**eLearning
Portal**

**Code:
ft70t5**



Mini Bots

5 MODELS



■ Mit dem fischertechnik eLearning-Portal geben wir dir die Möglichkeit, noch mehr Hintergrundwissen zum Thema des Baukastens zu erhalten. Über die Eingabe des eLearning-Codes bekommst du Zugang zu didaktischen Begleitinformationen mit spannenden Versuchen, Animationen und Fotos. So macht Lernen noch mehr Spaß - garantiert! Über www.fischertechnik-elearning.com gelangst du direkt zum eLearning-Portal. Einfach auf den entsprechenden Baukasten klicken und den folgenden Code eingeben: **ft70t5**

■ The fischertechnik eLearning portal gives you the possibility of obtaining additional background information on the subject of the construction set. After entering the eLearning code you receive access to additional educational information with interesting experiments, animations and photographs. This makes learning fun - for sure! The eLearning portal can be reached directly at www.fischertechnik-elearning.com. Simply click on the construction set in question and enter the following code: **ft70t5**

■ Le portail d'apprentissage en ligne appelé eLearning de fischertechnik vous confère la possibilité d'obtenir encore plus d'informations complémentaires spécifiques aux boîtes de construction. Il suffit de saisir le code eLearning pour accéder aux informations d'accompagnement didactiques assorties d'essais captivants, d'animations et de photos. Qu'attendez-vous pour apprendre davantage en s'amusant ?

Vous accédez directement au portail de l'apprentissage en ligne en cliquant sur www.fischertechnik-elearning.com. Cliquez sur la boîte de construction qui vous intéresse et saisissez le code : **ft70t5**

■ Met het fischertechnik eLearning-portaal bieden wij jou de mogelijkheid om nog meer achtergrondkennis over het onderwerp van de bouwdoos op te doen. Door het invoeren van de eLearning-code krijg je toegang tot leerzame informatie met spannende testen, animaties en foto's. Zo is leren gegarandeerd nog leuker! Via www.fischertechnik-elearning.com ga je direct naar het eLearning-portaal. Klik simpelweg op de desbetreffende bouwdoos en voer de volgende code in: **ft70t5**

■ Con el portal eLearning de fischertechnik te ofrecemos la posibilidad de adquirir mayores conocimientos sobre el tema del kit de construcción. Introduciendo el código de eLearning obtendrás información didáctica adicional con interesantes experimentos, animaciones y fotos. Así, aprender será mucho más divertido. En www.fischertechnik-elearning.com accedes directamente al portal de eLearning. Solo debes hacer clic en el kit de construcción correspondiente e introducir el siguiente código: **ft70t5**

■ Com o portal eLearning da fischertechnik, oferecemos a você a possibilidade de obter ainda mais conhecimentos básicos sobre o tema dos módulos. Ao digitar o código de eLearning, você vai acessar informações didáticas adicionais, com experimentos empolgantes, animações e fotos. Assim, aprender se torna muito mais divertido! Através do site www.fischertechnik-elearning.com você acessa diretamente o portal eLearning. Basta clicar no módulo correspondente e inserir o seguinte código: **ft70t5**

■ Con il portale di e-learning di fischertechnik hai la possibilità di approfondire ulteriormente gli argomenti del set di costruzione. Immettendo il codice per l'e-learning, potrai accedere alle informazioni didattiche con fantastici esperimenti, animazioni e foto. Imparare sarà ancora più divertente, te lo garantiamo! Per accedere al portale di e-learning basta visitare la pagina www.fischertechnik-elearning.com. Quindi fai clic sul set di costruzione corrispondente e immetti il seguente codice: **ft70t5**

■ Портал eLearning даёт тебе возможность получить ещё больше знаний по теме набора fischertechnik. Введи код eLearning, и ты получишь доступ к обучающей сопроводительной информации с увлекательными опытами, анимациями и фотографиями. Так обучение доставит ещё больше удовольствия - мы гарантируем это! Через www.fischertechnik-elearning.com ты попадёшь прямо на портал eLearning. Просто щёлкни по соответствующему набору и введи следующий код: **ft70t5**

■ 通过慧鱼 (fischertechnik) 网络学习门户，你能够获取更多与标准构件相关的背景知识。输入网络学习代码你就能获得指导性的安装信息，且配有引人入胜的实验、动画和图片。所以保证学起来更有兴趣！通过 www.fischertechnik-elearning.com 直接进入网络学习门户。点击相应的标准构件，并输入以下代码：**ft70t5**

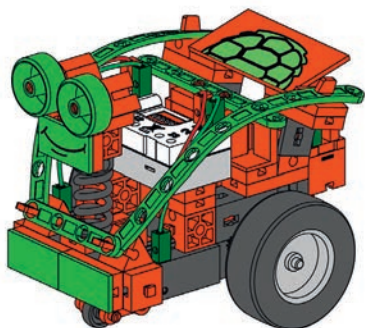
Inhalt
Contents
Contenu

Inhoud
Contenido
Conteúdo

Contenuto
Содержание
目录

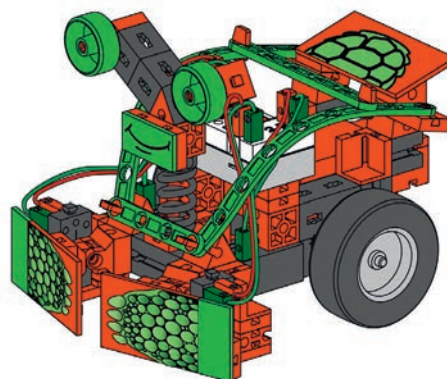
Einzelteilübersicht / Spare parts list / Liste des pièces détachées / Onderdelenoverzicht / Lista da piezas / Resumo de peça individual /
Singoli componenti / Перечень деталей / 零件概览 2

Montagetips / Tips for assembly / Tuyaux pour le montage / Montagetips / Consejos para el montaje / "Dicas" para montagem /
Consigli per il montaggio / Советы по сборке / 装配建议 3

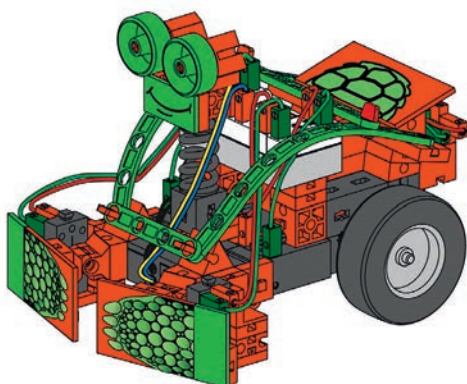


Fahrroboter / Mobile robot / Véhicule robot / Rijrobot / Robot desplazable /
Robô condutor / Robot mobile / Робот-автомобиль /
机器人车5

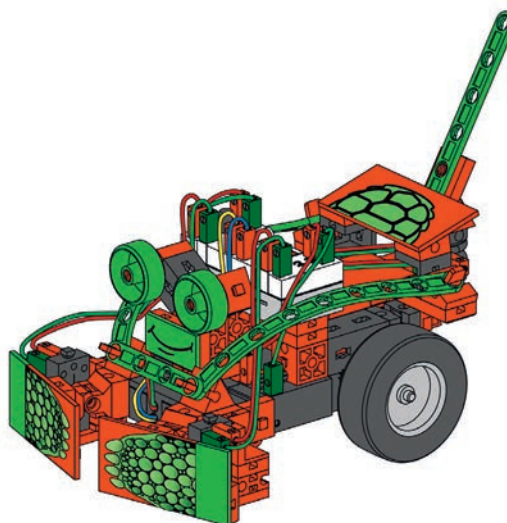
Hinderniserkenner / Hindrance detector / Détecteur d'obstacles / Obstakeldetector
/ Detector de obstáculos / Identificador de obstáculos / Rilevatore di ostacoli /
Обнаружитель препятствий / 障碍物识别车10



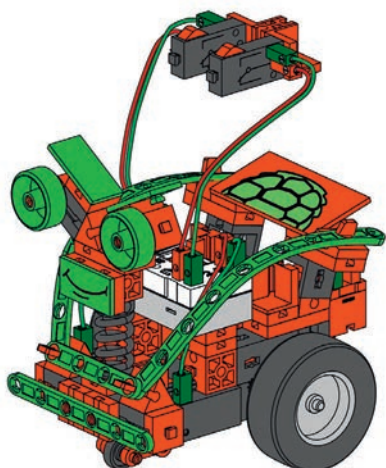
Spursucher / Trail searcher / Dépisteur / Sporenzoeker / Rastreador / Detector de
pistas / Robot di rilevamento tracce / Следопыт / 寻迹车14
















Hinderniserkenner mit Spursensor / Hindrance detector with trail sensor /
Détecteur d'obstacles avec dépisteur / Obstakeldetector met sporensensor /
Detector de obstáculos con sensor de pistas / Identificador de obstáculos com
sensor de rastreamento / Rilevatore di ostacoli con sensore di traccia /
Обнаружитель препятствий с датчиком маршрута /
配备轨迹传感器的障碍物识别车18



Teach In / Teach-in mobile robot / Véhicule robot programmable / Programming
rijrobot / Robot desplazable Teach-In / Robô condutor programável / Robot mobile
ad autoapprendimento / Обучаемый робот-автомобиль /
试教机器人车22
















Einzelteilübersicht
Spare parts list
Liste des pièces détachées


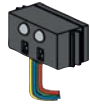
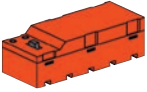

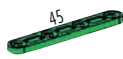
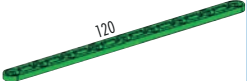



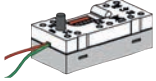



	31 010 4 x
	31 011 2 x
	31 064 2 x
	31 078 2 x
	31 124 1 x
	31 336 10 x
	31 337 12 x
	31 426 2 x
	31 436 2 x
	31 690 1 x
	31 760 1 x
	31 848 2 x
	31 891 1 x

Onderdelenoverzicht
Lista da piezas
Resumo de peça individual

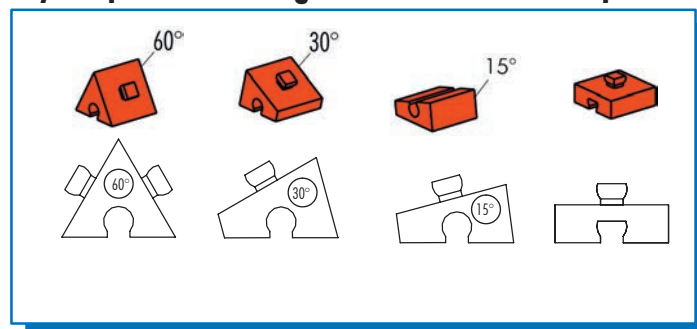
	31 981 4 x
	31 982 9 x
	32 064 3 x
	32 085 1 x
	32 321 1 x
	32 330 2 x
	32 879 1 x
	32 881 6 x
	32 913 2 x
	35 033 2 x
	35 049 8 x
	36 323 2 x
	36 324 2 x

	36 443 1 x
	36 573 1 x
	36 586 2 x
	36 920 2 x
	36 922 4 x
	37 237 14 x
	37 468 2 x
	37 783 2 x
	38 240 8 x
	38 241 1 x
	38 248 2 x
	38 249 1 x
	38 428 2 x

Singoli componenti
Перечень деталей
零件概览

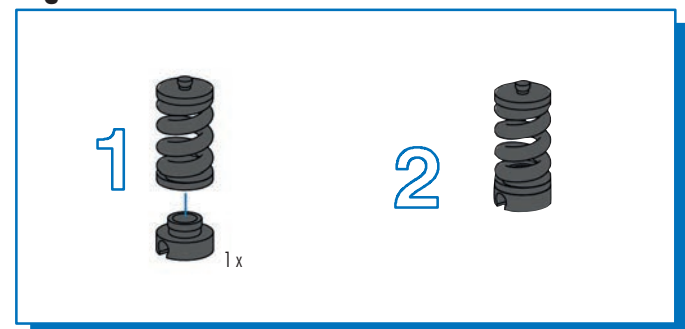
	116 913 2 x
	128 598 1 x
	135 719 1 x
	137 096 2 x
	146 531 1 x
	146 533 2 x
	154 452 2 x
	156 497 1 x
	156 498 1 x
	156 499 1 x
	156 502 1 x
	156 504 3 x
	156 511 1 x

Montagetipps
Tips for assembly
Tuyaux pour le montage



Montagetipps
Consejos para el montaje
"Dicas" para montagem

Consigli per il montaggio
Советы по сборке
装配建议

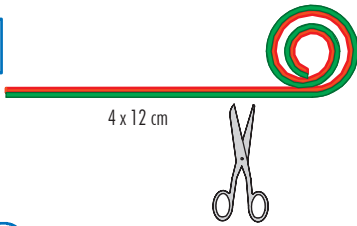


Kabel und Stecker
Plugs and cables
Fiches et des câbles

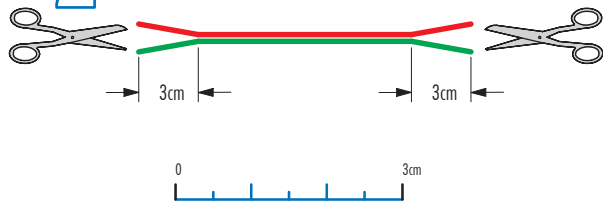
Stekkers en cables
Enchufes en cables
Cabos e contatos

Cavi e connettori
Провода и штекеры
电缆和插头

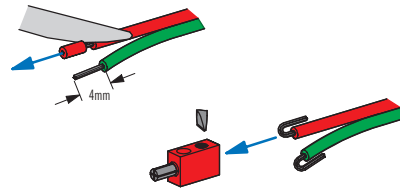
1



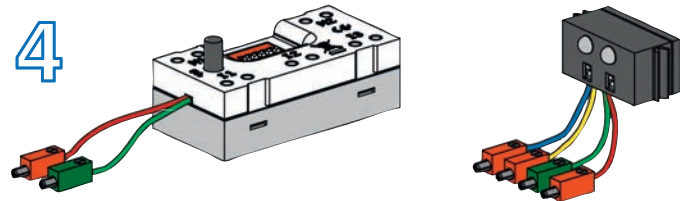
2



3



4



25 cm

20 cm

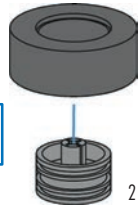
1



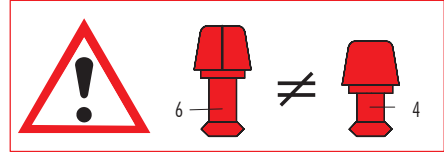
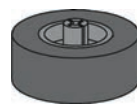
2



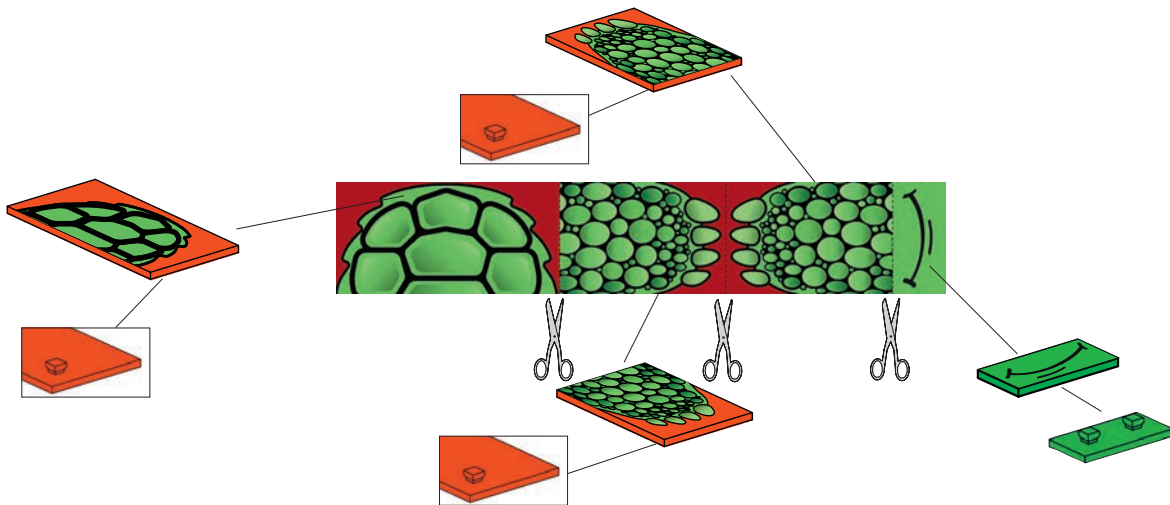
1



2



15 cm



10 cm

Sicherheitshinweise
Safety Information
Consignes de sécurité

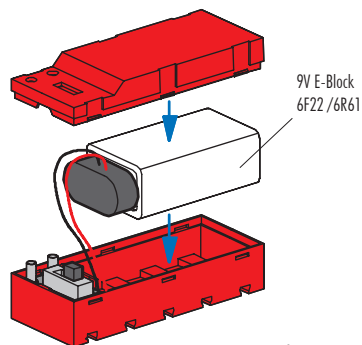
Veiligheidsrichtlijnen
Indicaciones de seguridad
Observações sobre segurança

Informazioni per la sicurezza

Указания по технике безопасности
安全指南

- Achtung! Verletzungsgefahr an Bauteilen mit funktionsbedingten scharfen Kanten und Spitzen!
- Caution! Be careful not to hurt yourself on components with sharp or pointed edges!
- Attention! Risque de blessure sur les éléments comportant des arêtes et o pointes vives indispensables au bon fonctionnement!
- Let op! U kunt zich bezeren aan bouwstenen met sherpe randen of punten!
- Attenzione! Esiste il pericolo di lesione con i pezzi di costruzione che hanno bordi e punte spigolosi necessari per la funzionalità del pezzo!
- Atencão! Perigo de ferimentos em peças componentes com cantos vivos e pontas obrigatórios para o funcionamento!
- Attenzione! Pericolo di lesioni dovute a componenti con spigoli vivi e punte per motivi funzionali!
- Будьте осторожны! Об острые края деталей и и наконечники можно порезаться!
- 注意！因功能需要而带有锋利的棱边和尖角的部件可能会带来受伤危险！

5 cm



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 oder 1 NiMH-Akku 9V

- 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.

alkaline batterije of oplaadbare batterije (9Volt)

- Niet-oplaadbare batterijen mogen niet worden opgeladen.
- Oplaadbare batterijen mogen uitsluitend door volwassenen worden opgeladen.
- Oplaadbare 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.
- Afgeleverde 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.

1 batteria alcalina da 9 V o 1 batteria NiMH- ricaricabile 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.

9V rechargeable battery or 9 V alkaline dry cell

- 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.

pila alcalina bloque de 9 Voltios o acumulador NiMH- 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 compartimento de pilas antes de que sean cargadas.
- Las pilas deben ser colocadas con la polaridad correcta.
- Las pilas descargadas deben ser retiradas 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.

1 алкалиновая батарейка на 9 В или 1 никель-кадмиевый аккумулятор, 9 В

- Не пытайтесь 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 накоротко соединительные клеммы.
- Использованные батареи утилизировать как спецотходы.
- Не вставляйте в розетку провода!
- Регулярно проверяйте зарядное устройство на отсутствие повреждений. При наличии повреждений использовать зарядное устройство до выполнения его полного ремонта не разрешается.

pile 9V ou accu 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

Bateria alcalina de bloco de 9 V ou acumulador NiMH- 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 no tomado!
- Verificar regularmente se o carregador apresenta danos. Em caso de dano, o carregador não deverá ser utilizado enquanto não estiver plenamente consertado.

1 个 9V 的碱性方电池或 1 个 9V 的 NiMH- 蓄电池

- 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。

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.

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 батареек 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)

Alle Einzelteile, insbesondere bewegliche Teile sind falls notwendig zu warten und zu reinigen.

All components, especially moving parts, should be maintained and cleaned as necessary.

Toutes les pièces détachées et en particulier les pièces mobiles, sont, si nécessaire, à entretenir et à nettoyer.

Alle onderdelen, vooral de bewegende delen, kunnen, indien noodzakelijk, onderhouden en gereinigd worden.

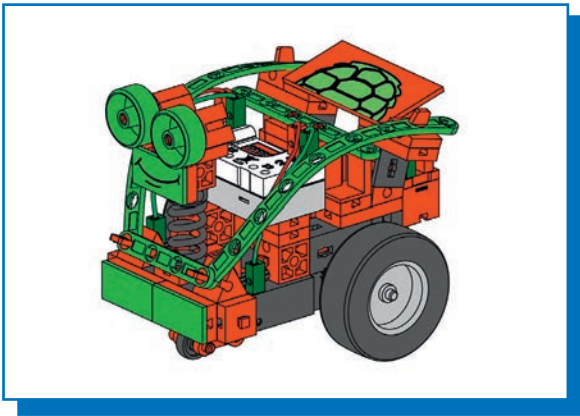
Es necesario limpiar y mantener en buen estado todas las diferentes piezas - especialmente las piezas móviles.

Caso necessário, todas as peças individuais, especialmente peças móveis, tem que ser submetidas à manutenção e ser limpadas.

Se necessario, tutti i singoli componenti, soprattutto le parti mobili, si devono eventualmente sottoporre a manutenzione e pulizia.

Все детали, особенно подвижные, требуют ухода и чистки.

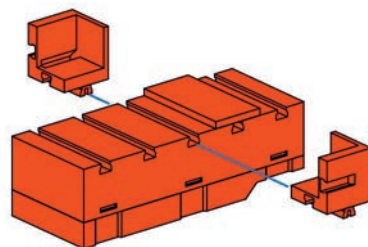
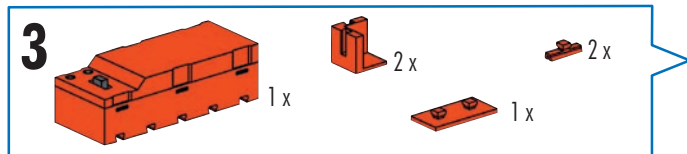
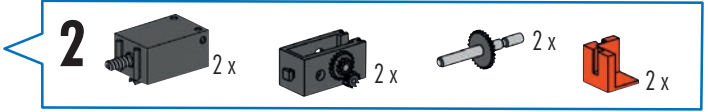
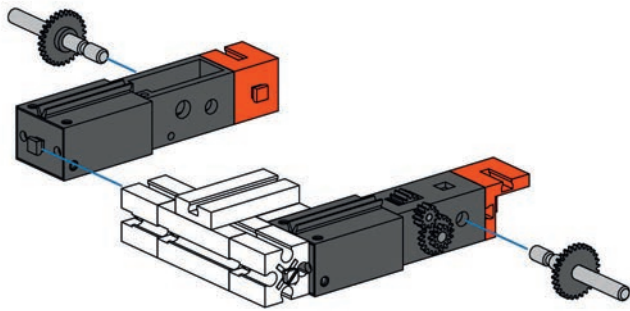
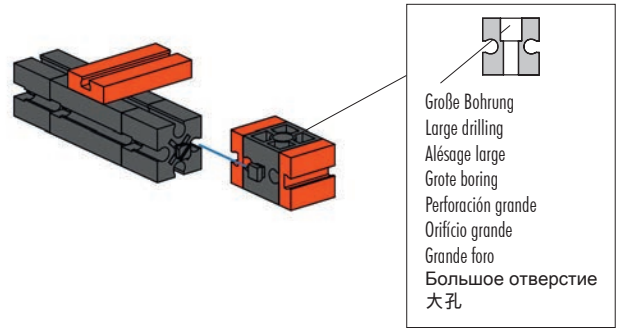
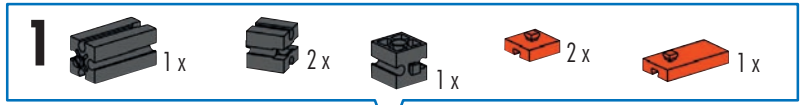
必要时应保养和清洁所有零件，尤指运动部件。

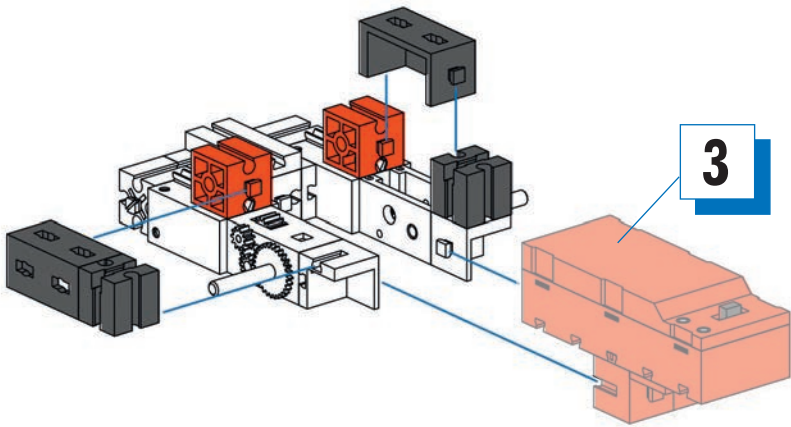


Fahrroboter
Mobile robot
Véhicule robot

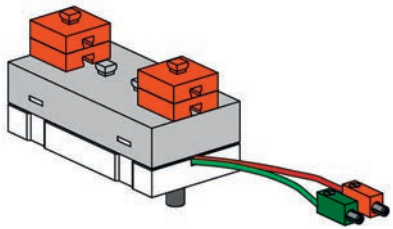
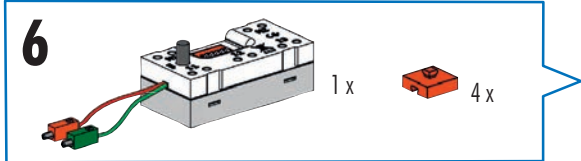
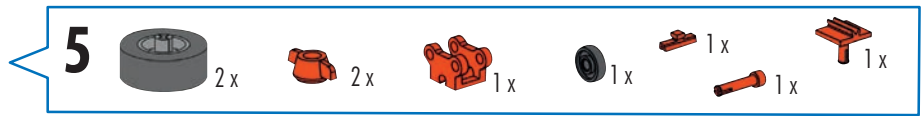
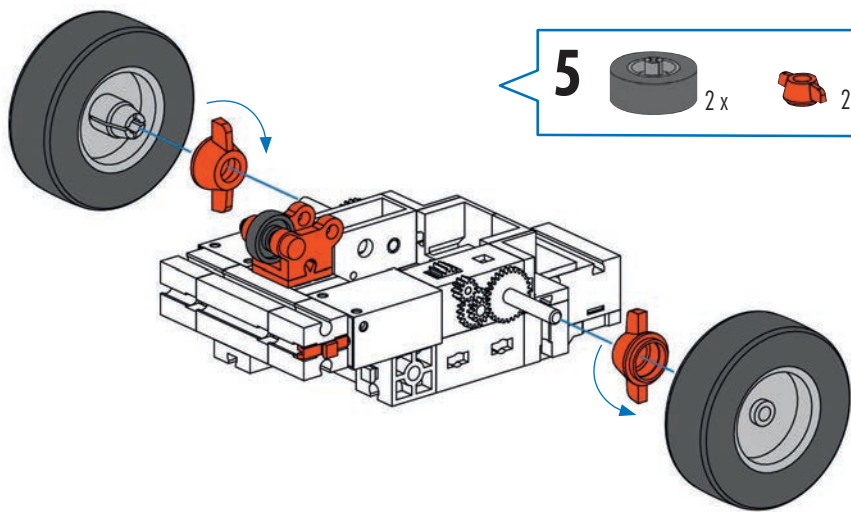
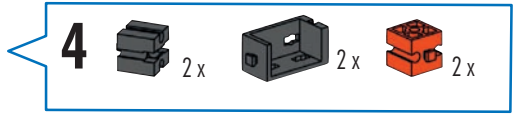
Rijrobot
Robot desplazable
Robô condutor

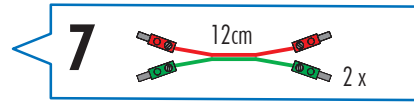
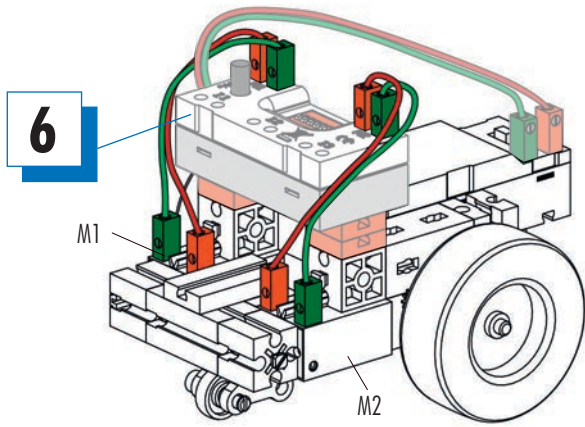
Robot mobile
Робот-автомобиль
机器人车





3

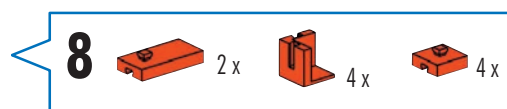
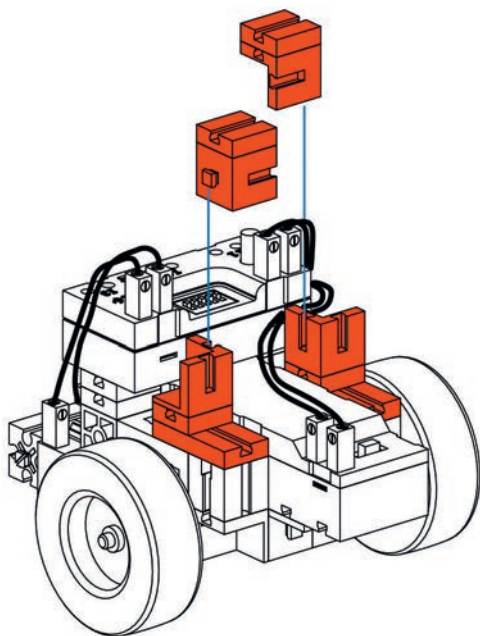
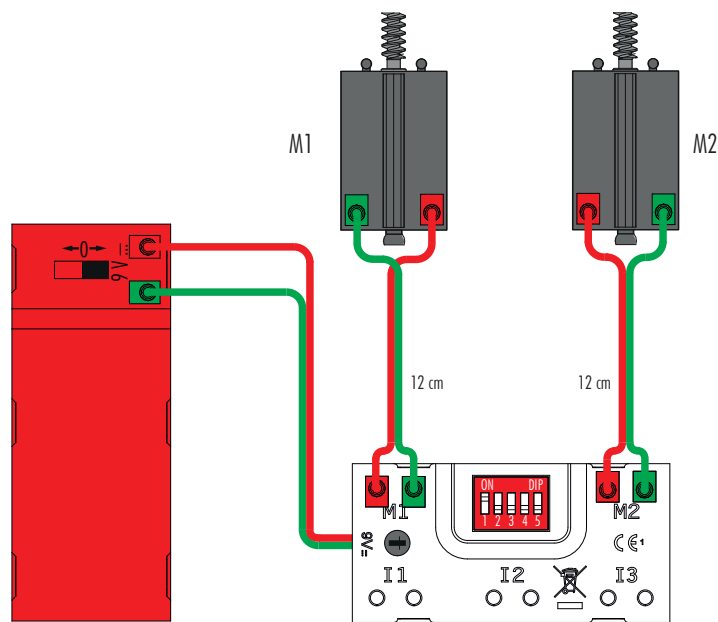


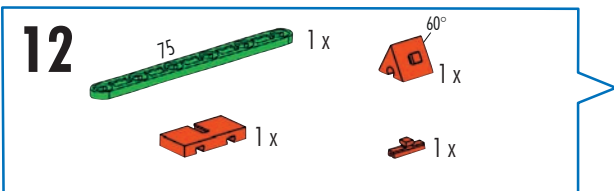
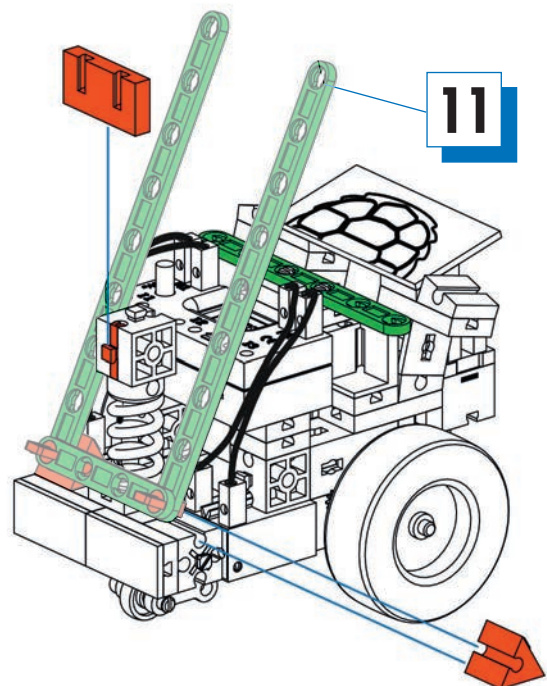
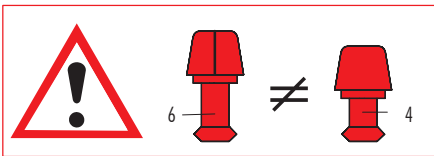
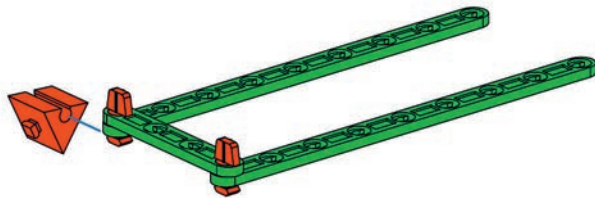
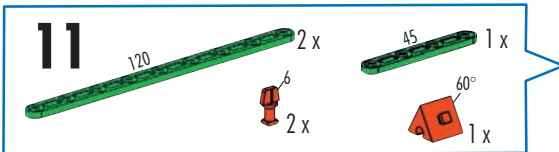
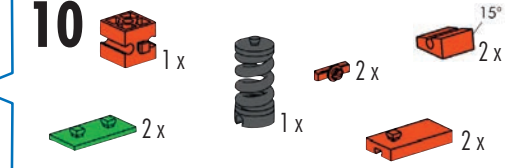
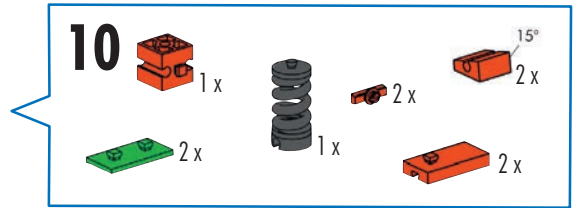
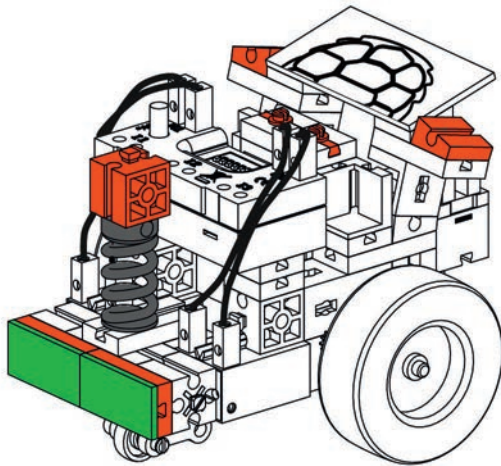
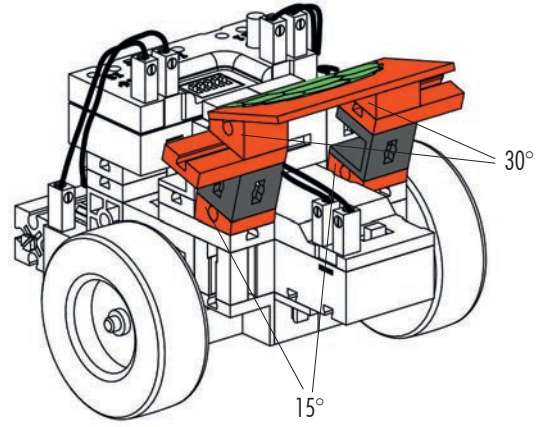
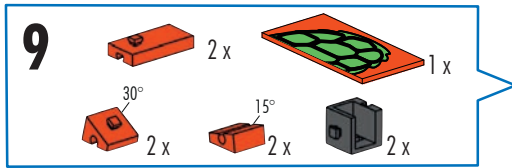


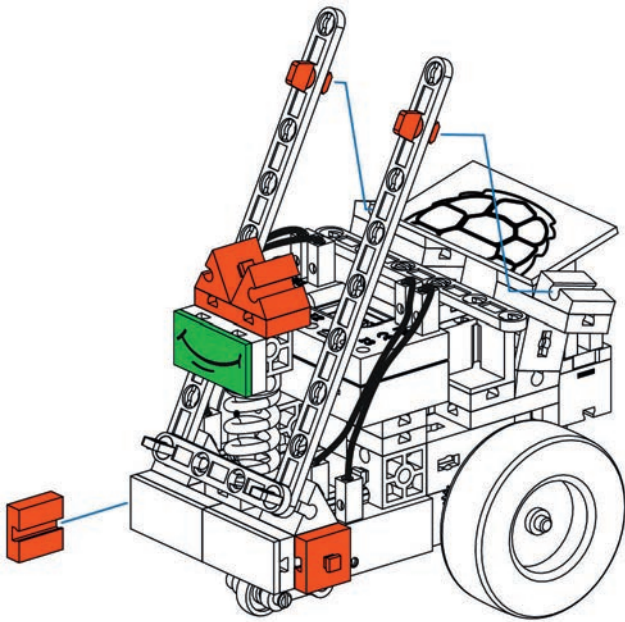
Schaltplan
Circuit diagram
Plan électrique

Schakelschema
Diagrama de circuitos
Plano elétrico de ligação

Schema elettrico
Схема подключения
电路图





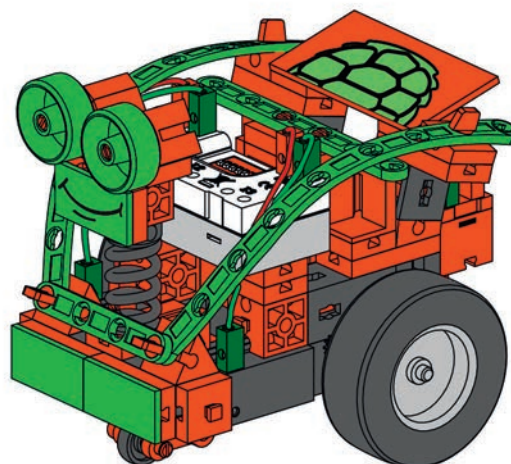
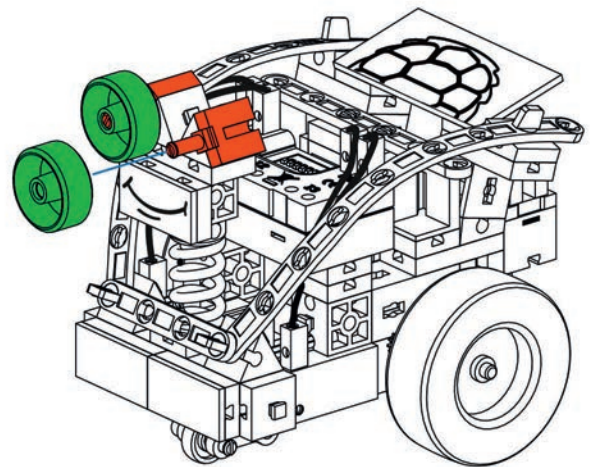


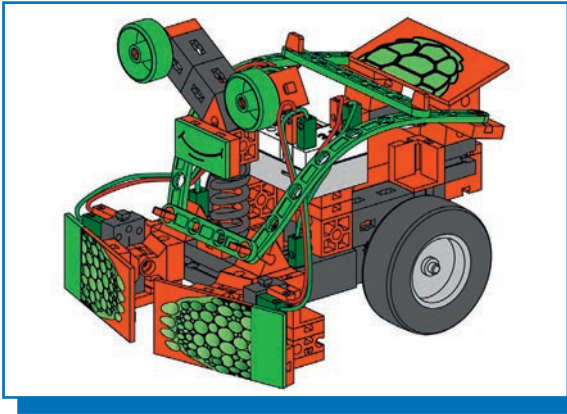
13

- 1 x
- 2 x
- 2 x
- 1 x
- 2 x

14

- 2 x
- 2 x





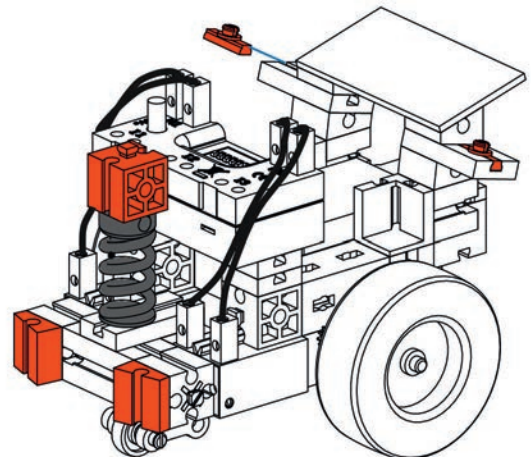
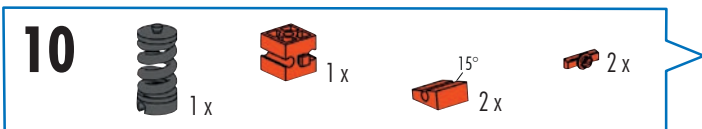
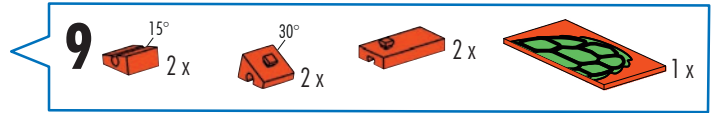
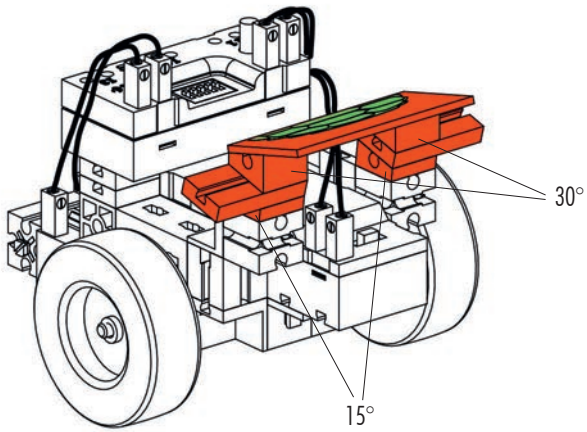
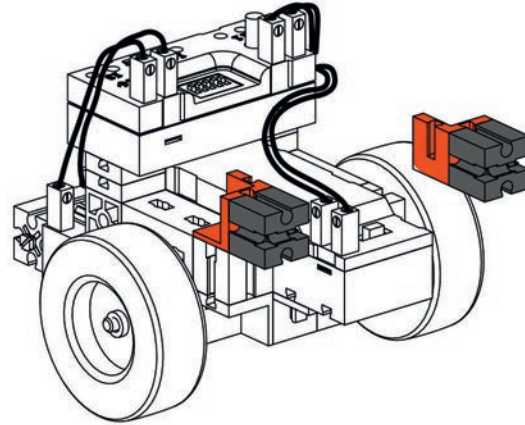
Hinderniserkenner
Hindrance detector
Détecteur d'obstacles

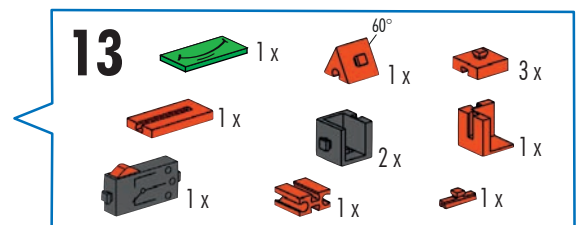
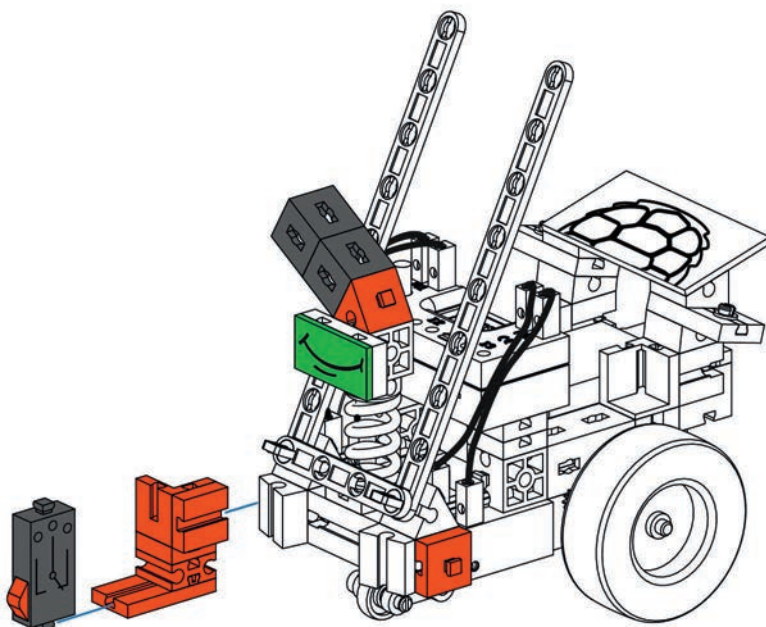
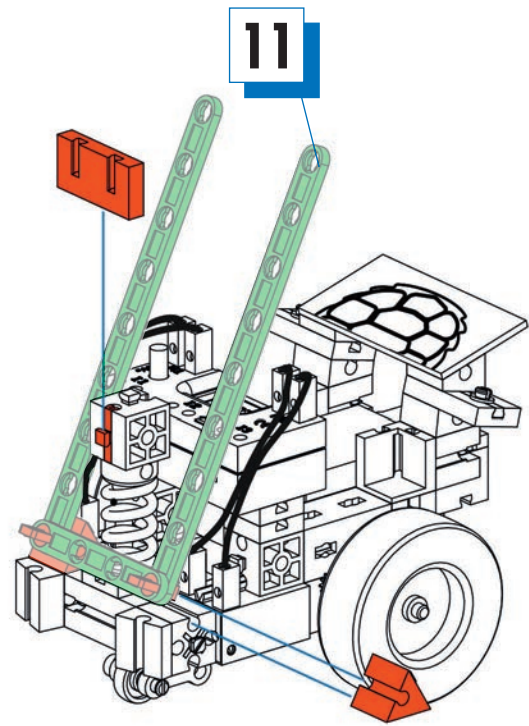
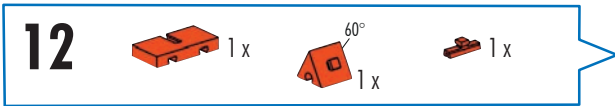
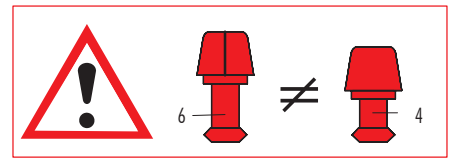
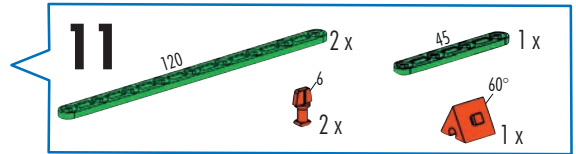
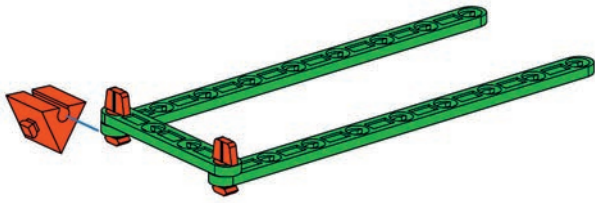
Obstakeldetector
Detector de obstáculos
Identificador de obstáculos

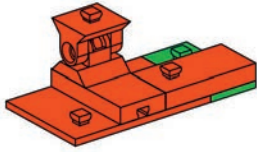
Rilevatore di ostacoli
Обнаружитель препятствий
障碍物识别车


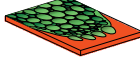


1-7








Seite 5
Page 5
Page 5
Bladzijde 5
Página 5
Pagina 5
Pagina 5
Страница 5
页次 5

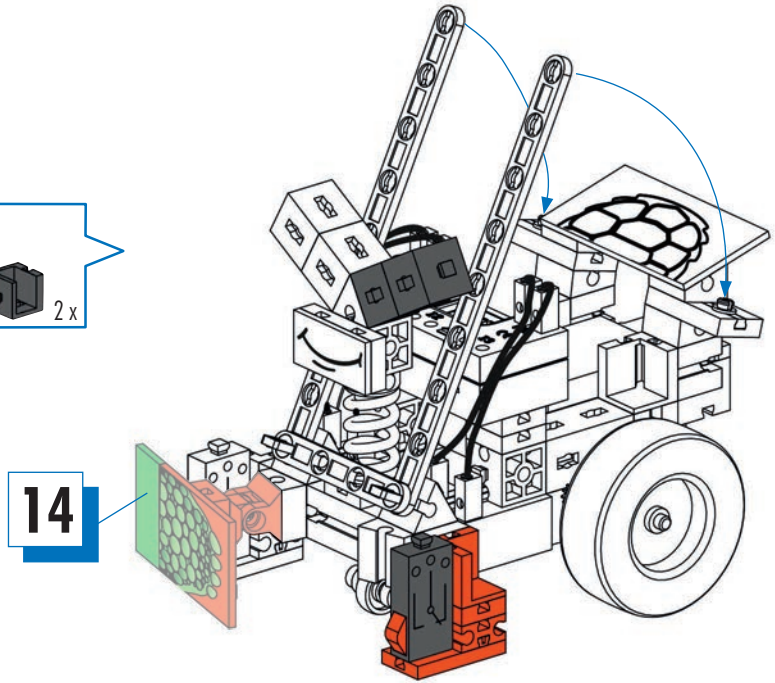




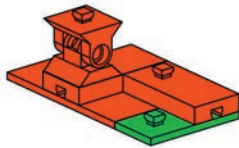



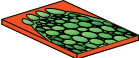


14  2x  1x  1x  1x



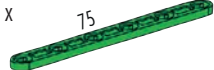

15  1x  1x  1x  1x  1x  1x  2x

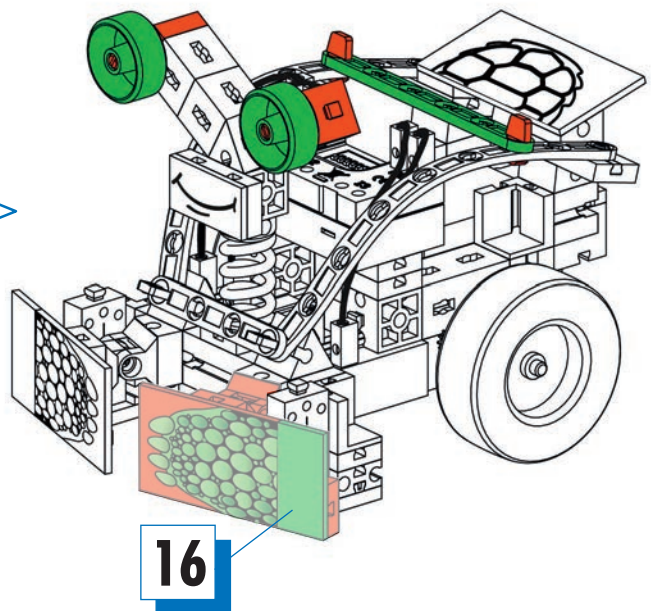


14

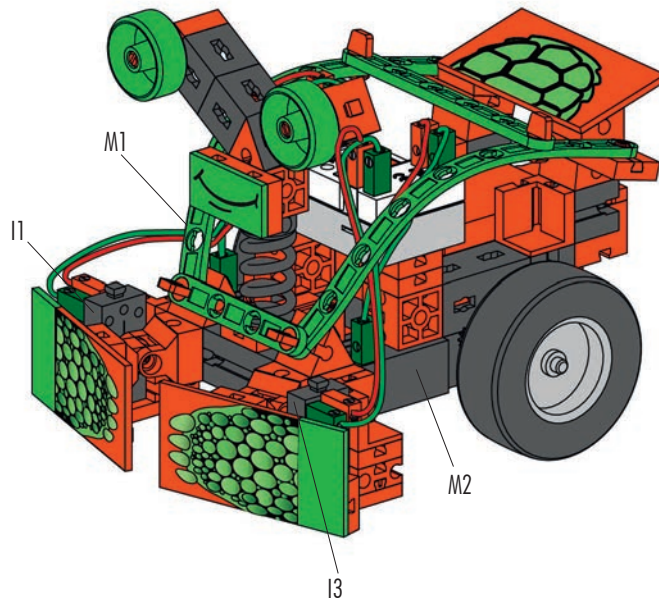


16  2x  1x  1x  1x

17  2x  2x  1x  2x



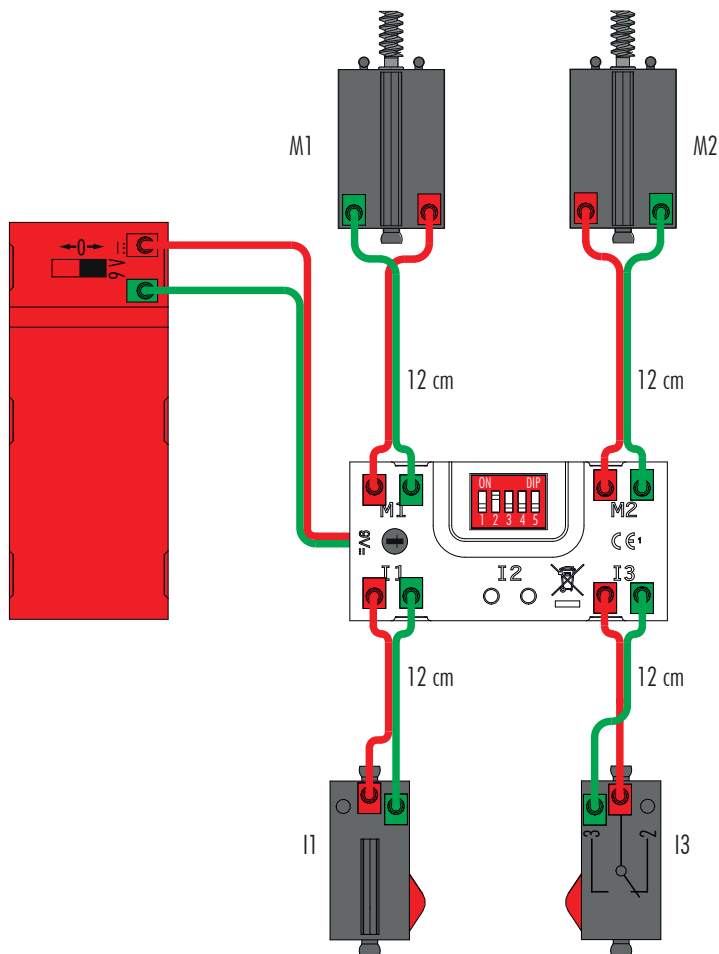
16

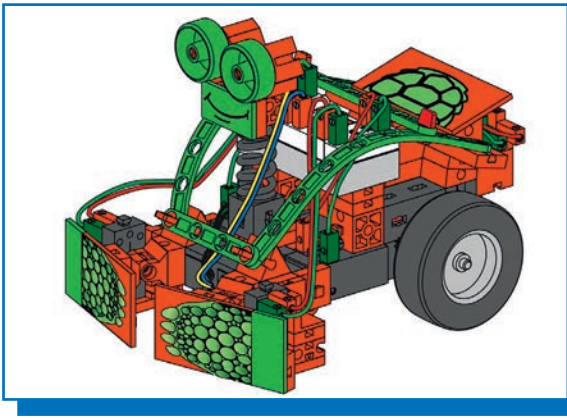


Schaltplan
 Circuit diagram
 Plan électrique

Schakelschema
 Diagrama de circuitos
 Plano elétrico de ligação

Schema elettrico
 Схема подключения
 电路图





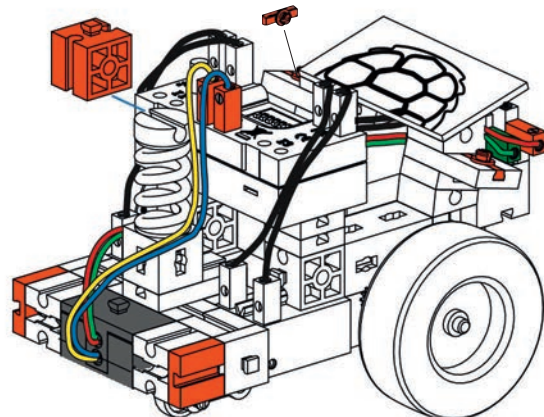
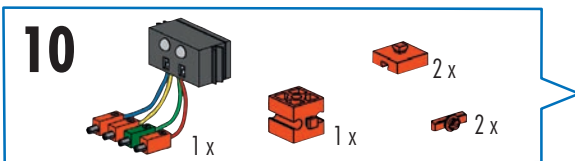
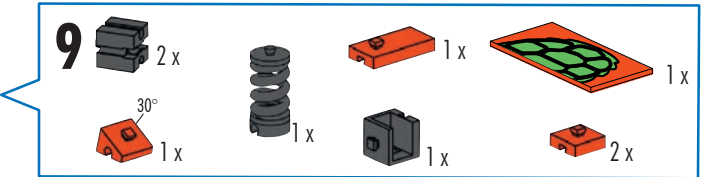
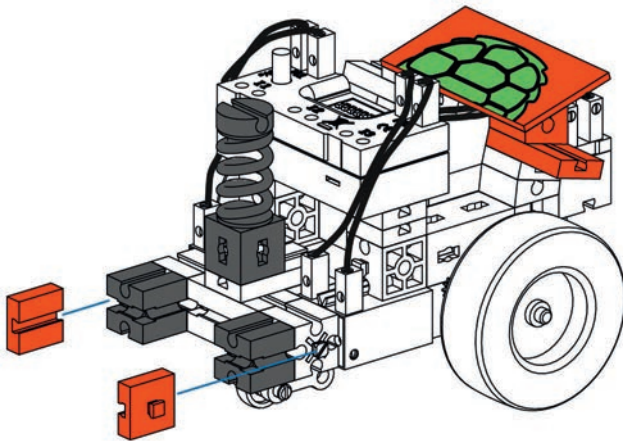
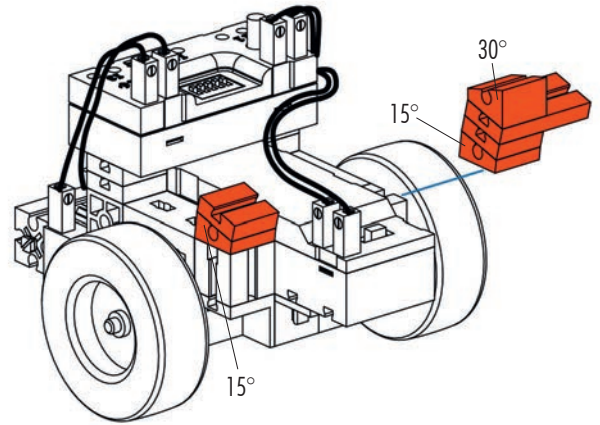
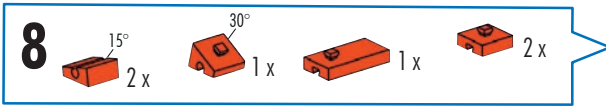
Spursucher
Trail searcher
Dépisteur

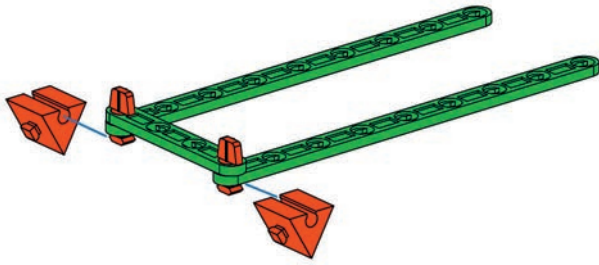
Sporenzoeker
Rastreador
Detector de pistas

Robot di rilevamento tracce
Следопыт
寻迹车

1-7

Seite 5
Page 5
Page 5
Bladzijde 5
Página 5
Pagina 5
Pagina 5
Страница 5
页次 5





11

120 2 x 45 1 x

6 2 x 60° 2 x

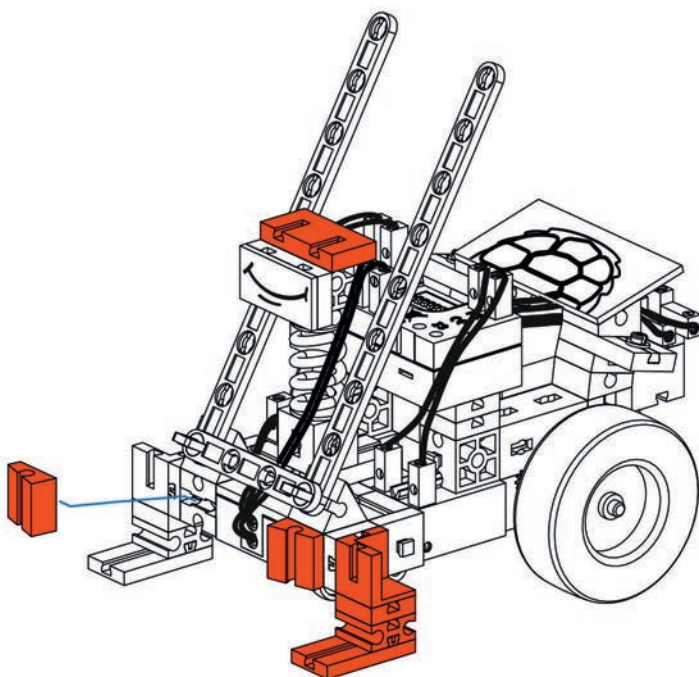
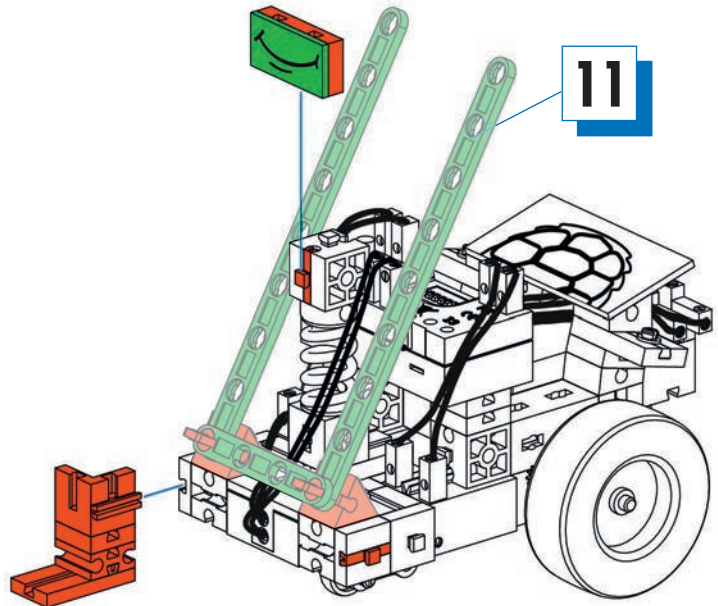
⚠

6 ≠ 4

12

1 x 1 x 4 x

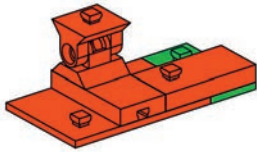
1 x 1 x 1 x 1 x


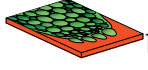




13

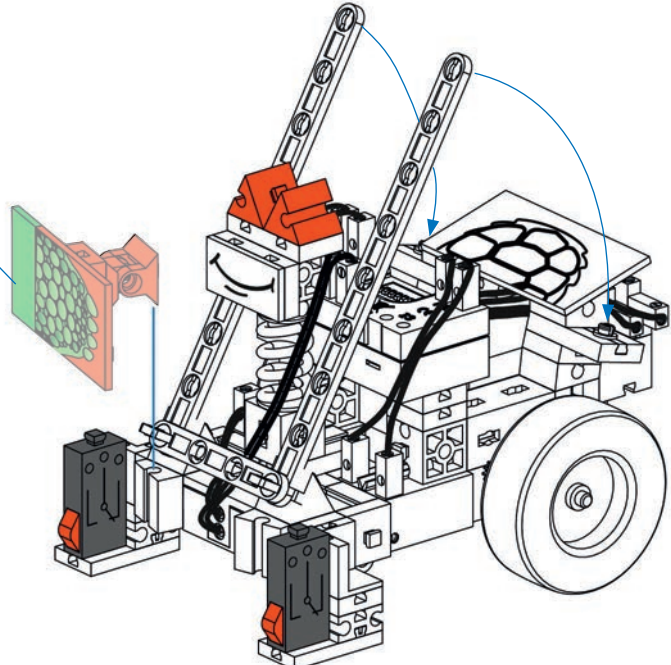
1 x 15° 2 x 1 x

1 x 1 x 1 x 1 x

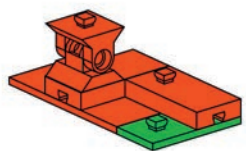



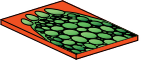


14  2x  1x  1x  1x



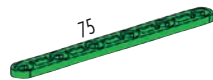

14

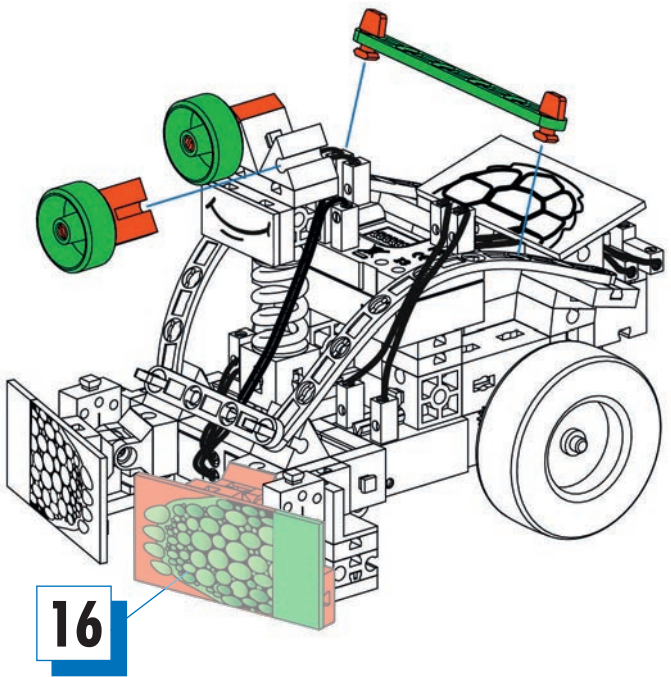


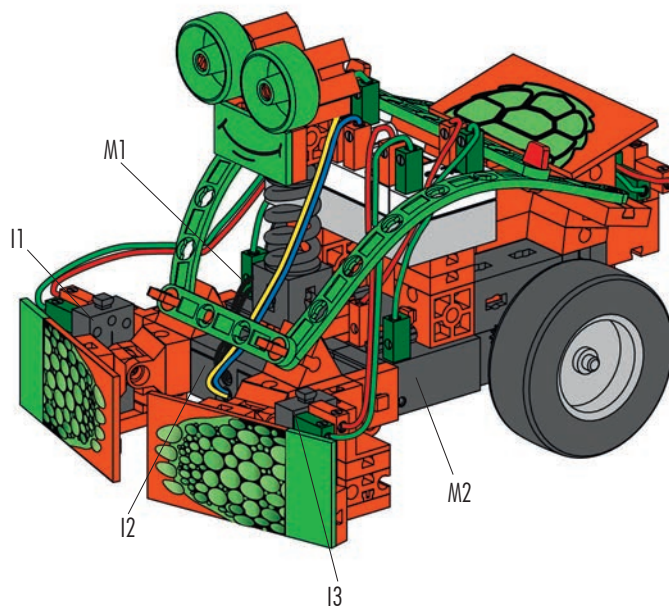
15  2x  2x



16  2x  x  1x  1x

17  2x  2x  1x  2x

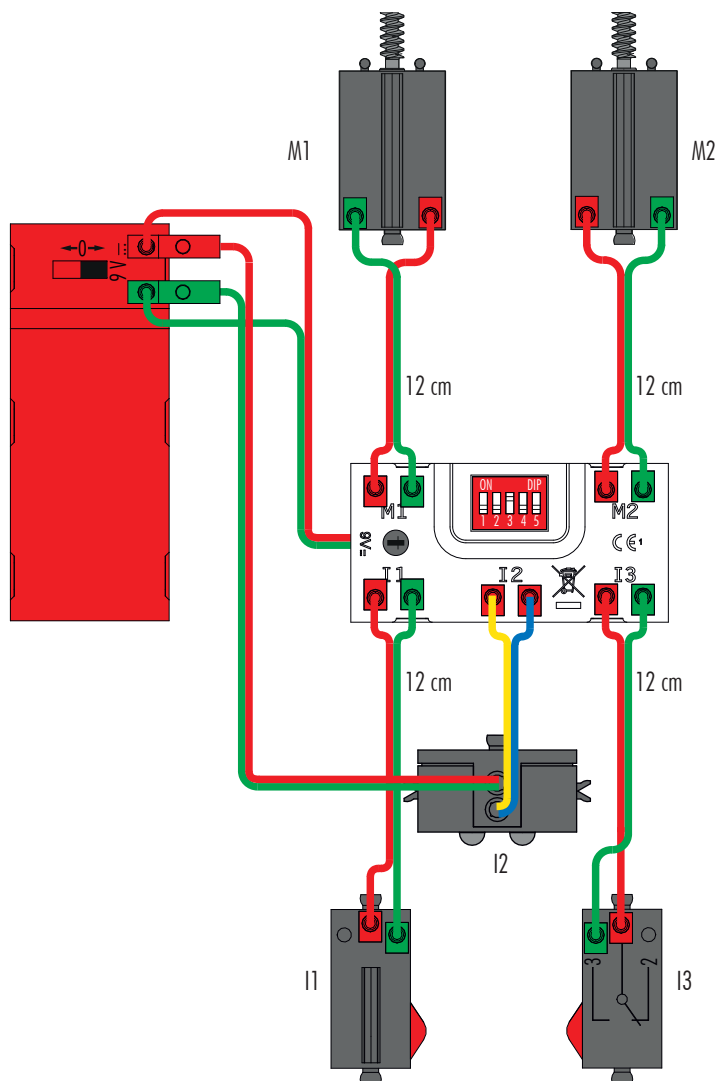




Schaltplan
 Circuit diagram
 Plan électrique

Schakelschema
 Diagrama de circuitos
 Plano elétrico de ligação

Schema elettrico
 Схема подключения
 电路图





Hinderniserkenner mit Spursensor

Hindrance detector with trail sensor

Détecteur d'obstacles avec dépisteur

Obstakeldetector met sporesensor

Detector de obstáculos con sensor de pistas

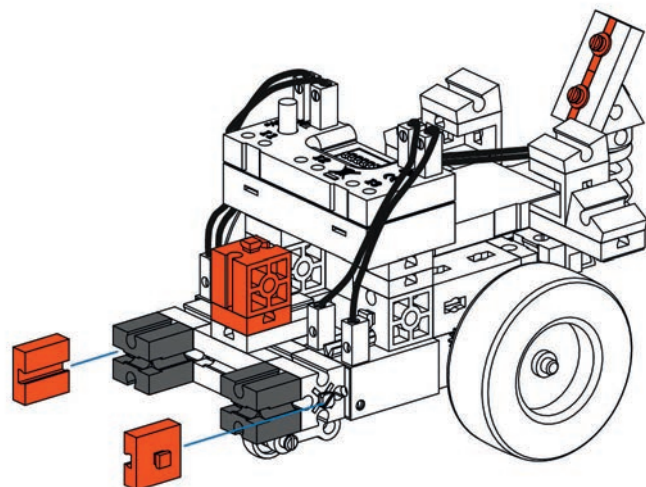
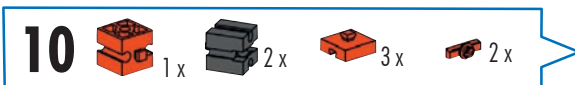
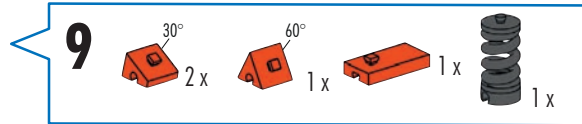
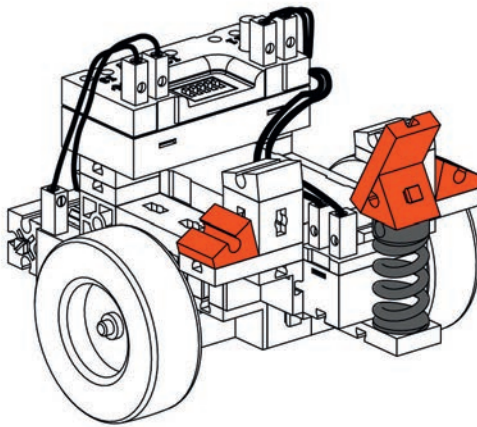
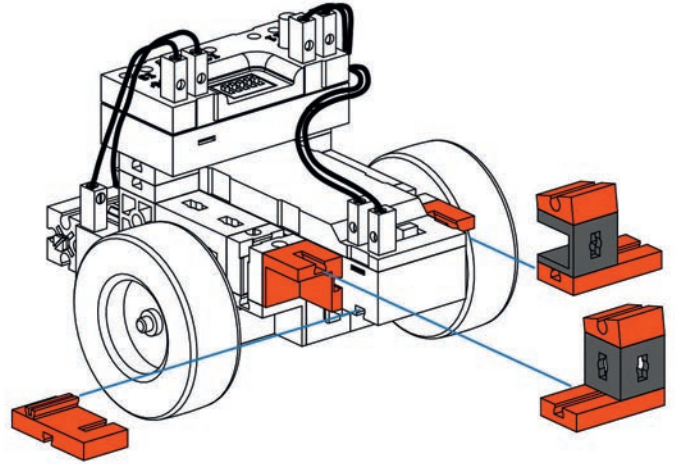
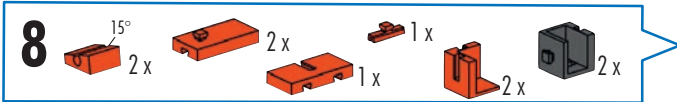
Identificador de obstáculos con sensor de rastreamento

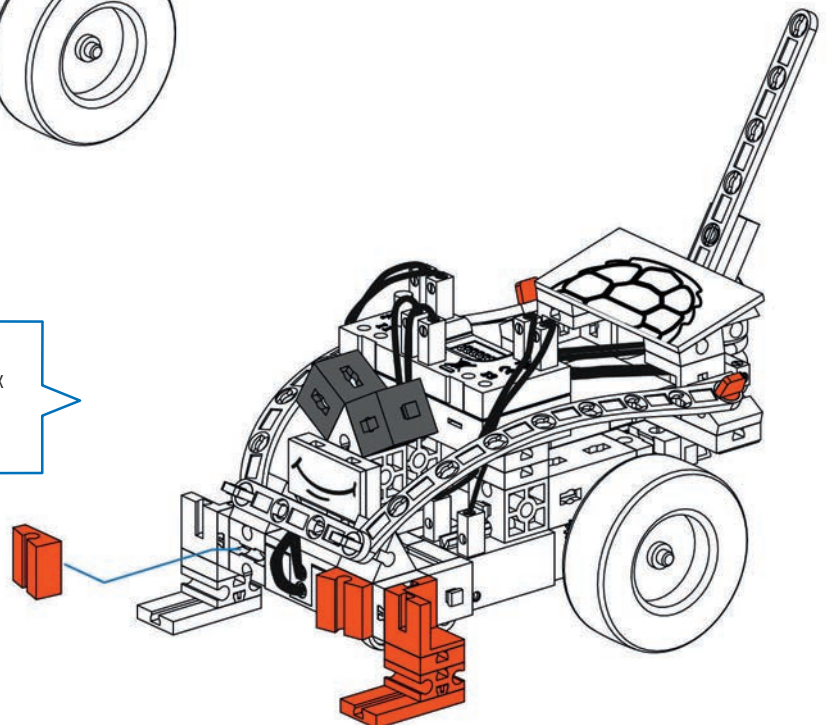
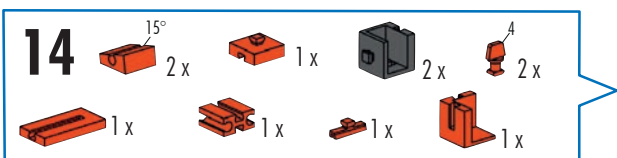
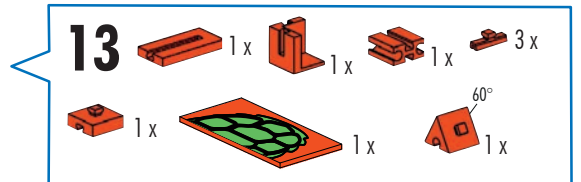
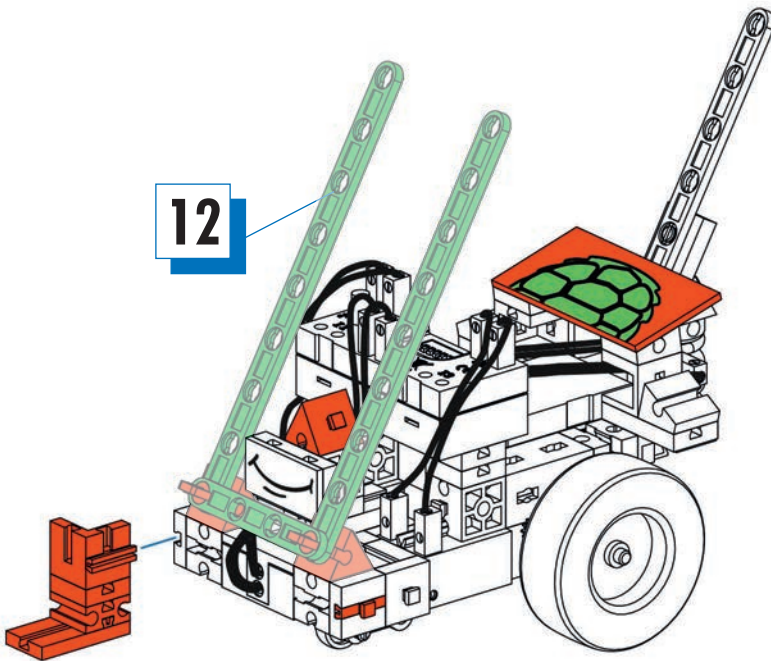
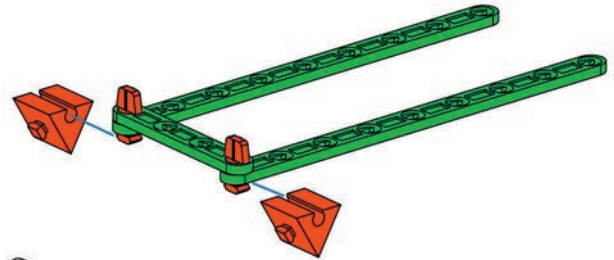
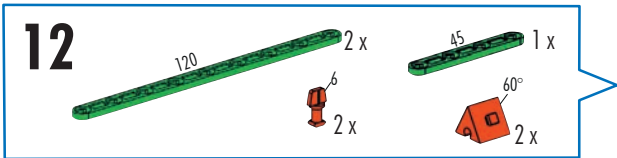
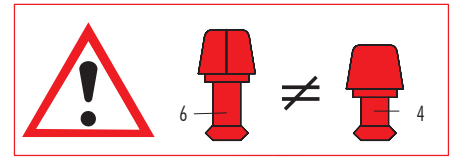
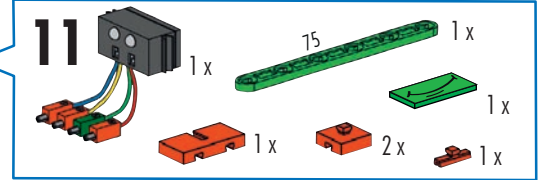
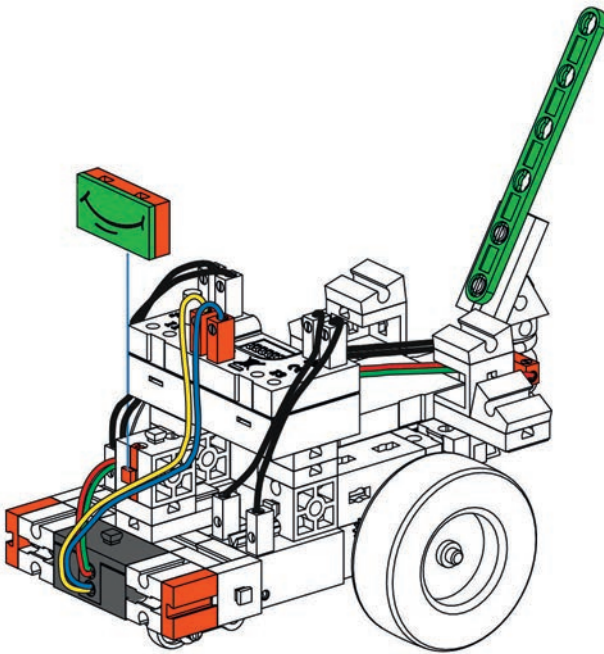
Rilevatore di ostacoli con sensore di traccia

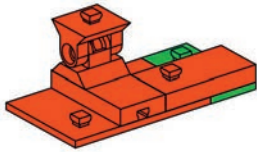
Обнаружитель препятствий с датчиком маршрута
配备轨迹传感器的障碍 物识别车

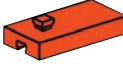
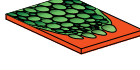


1-7

Seite 5
Page 5
Page 5
Bladzijde 5
Página 5
Pagina 5
Pagina 5
Страница 5
页次 5

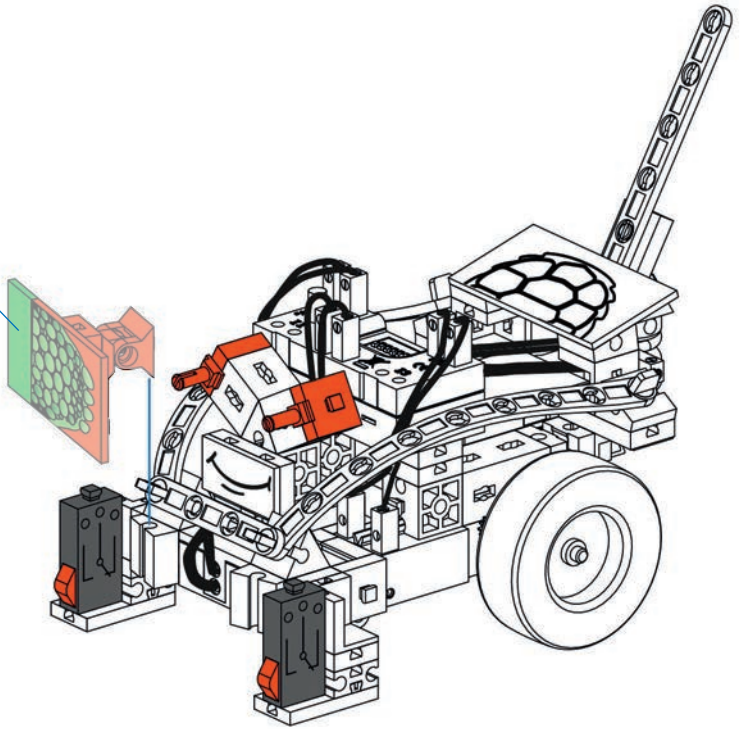




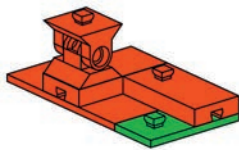


15  2x  1x  1x  1x

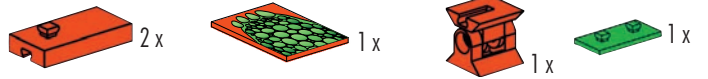
15



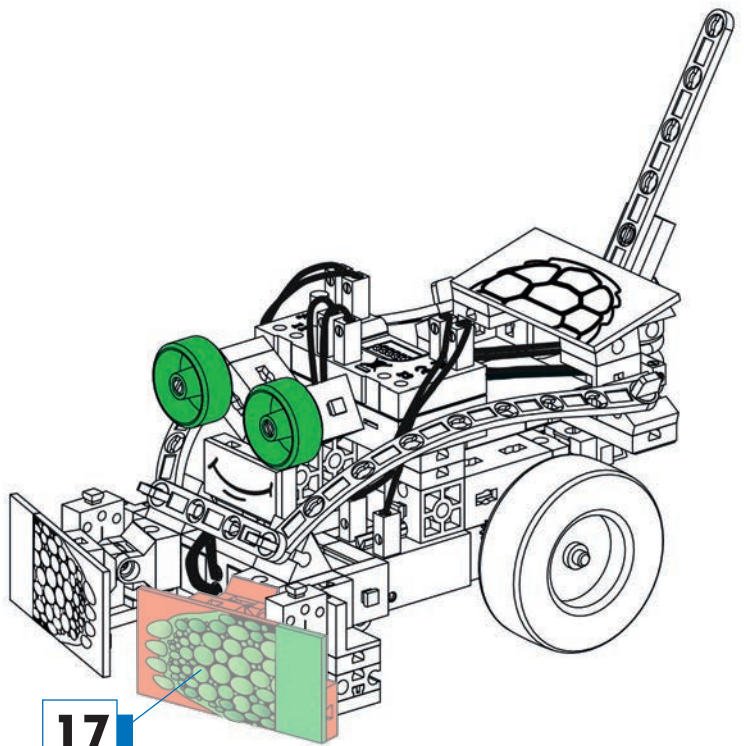
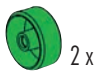
16



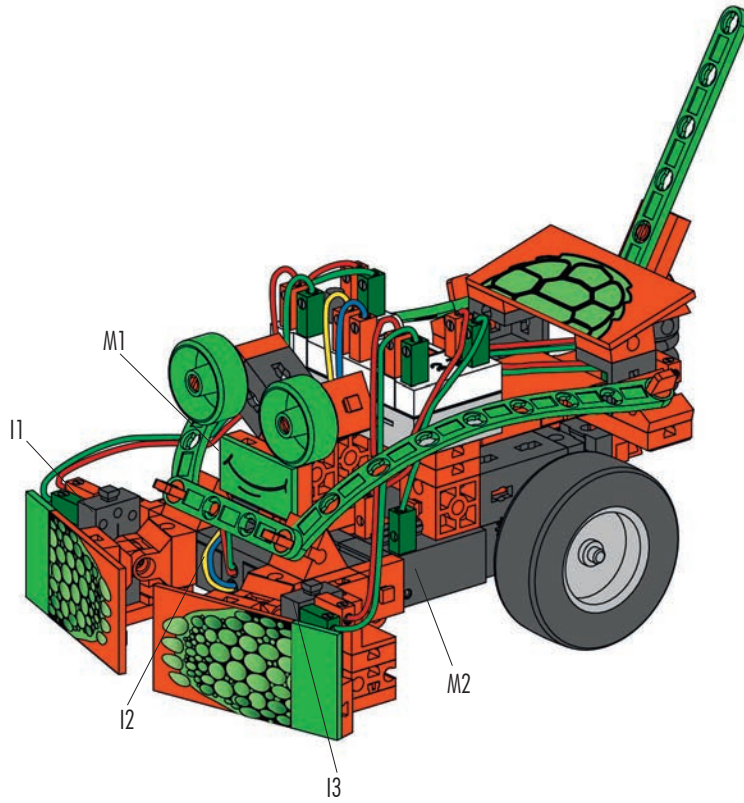
17



18



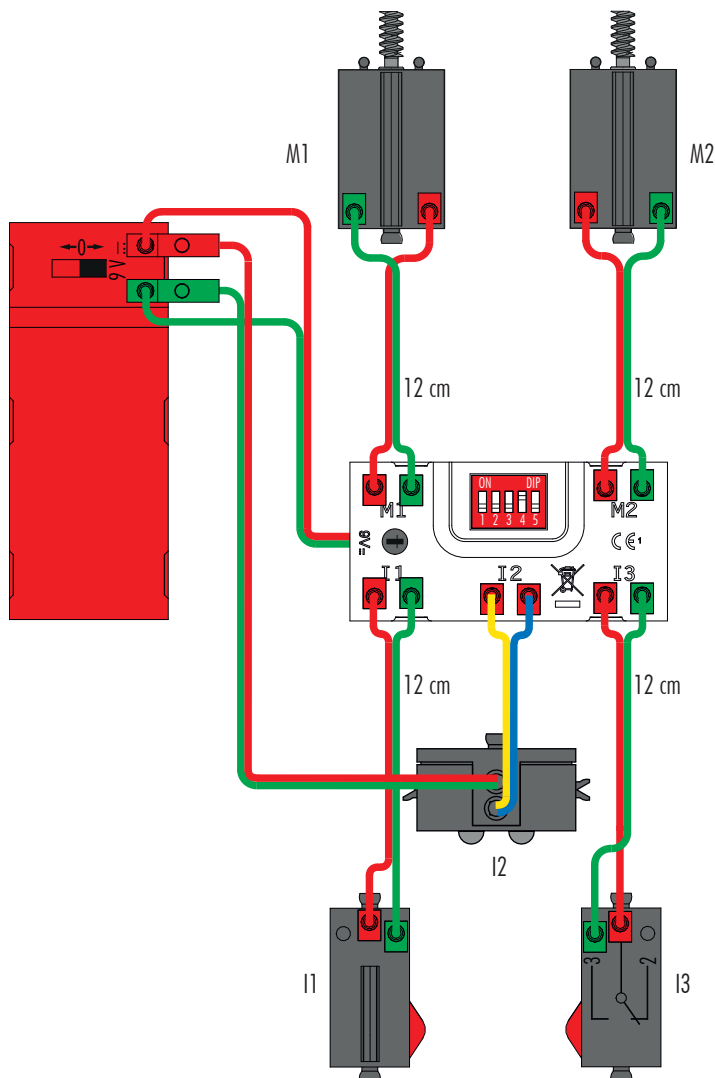
17



Schaltplan
Circuit diagram
Plan électrique

Schakelschema
Diagrama de circuitos
Plano elétrico de ligação

Schema elettrico
Схема подключения
电路图





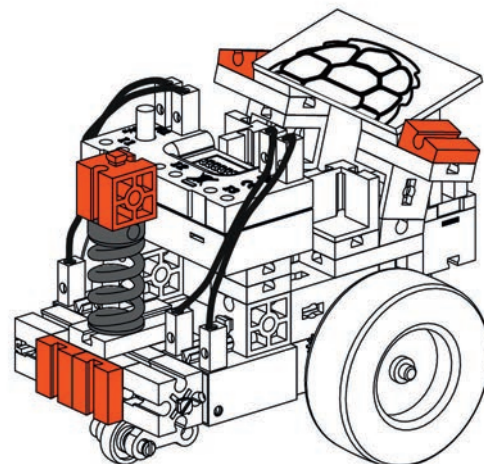
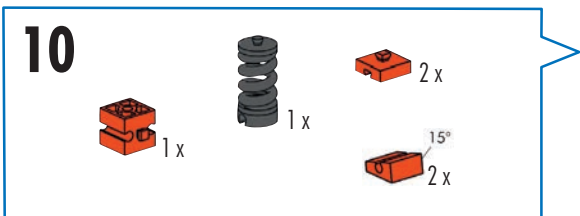
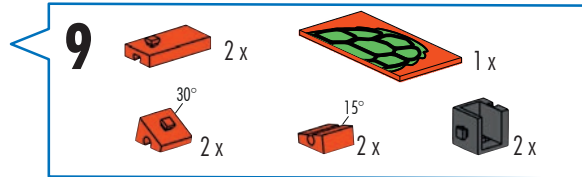
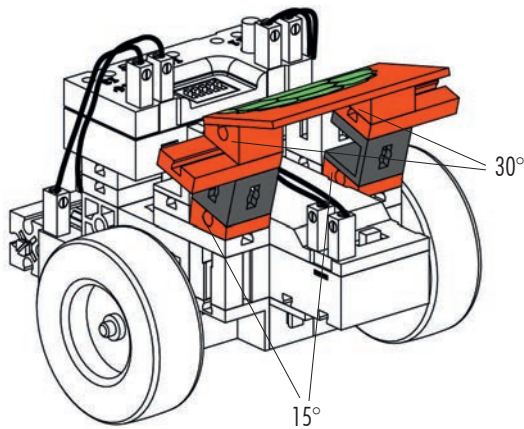
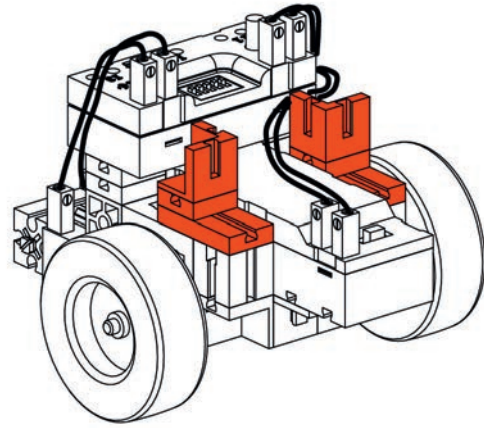
Teach In
 Teach-in mobile robot
 Véhicule robot
 programmable

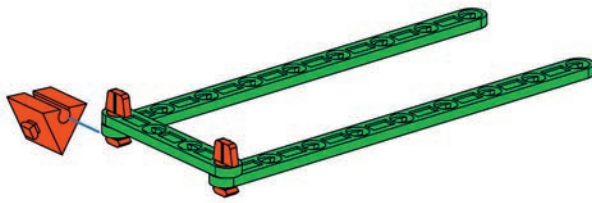
Programmering rijrobot
 Robot desplazable
 Teach-In
 Robô condutor programável

Robot mobile
 ad autoaprendimento
 Обучаемый робот-
 автомобиль
 试教机器人车

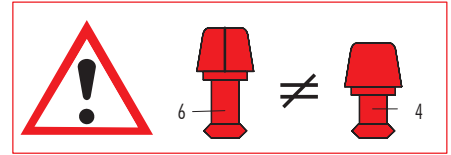
1-7

Seite 5
 Page 5
 Page 5
 Bladzijde 5
 Página 5
 Pagina 5
 Pagina 5
 Страница 5
 页次 5



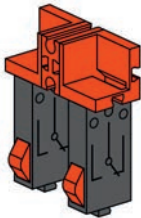
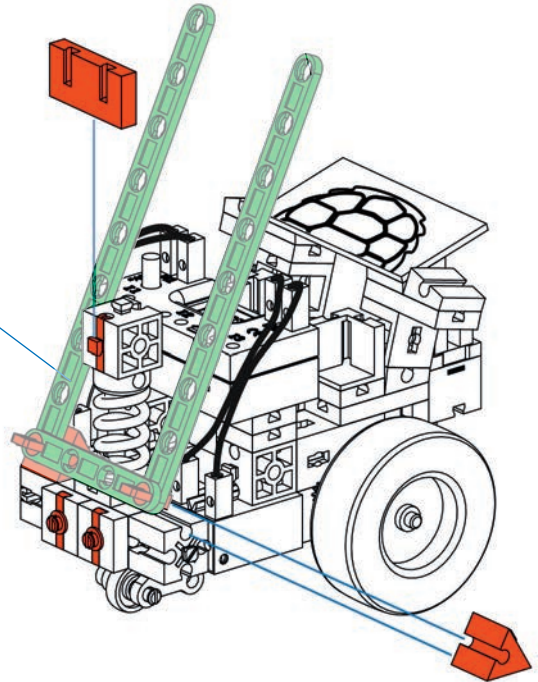


- 11**
- 120 2x
 - 45 1x
 - 6 2x
 - 60° 1x



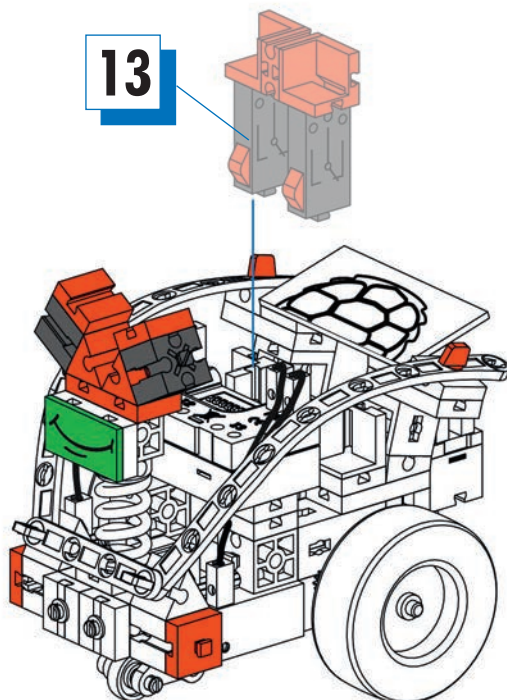
- 12**
- 60° 1x
 - 1x
 - 1x
 - 1x
 - 2x

11

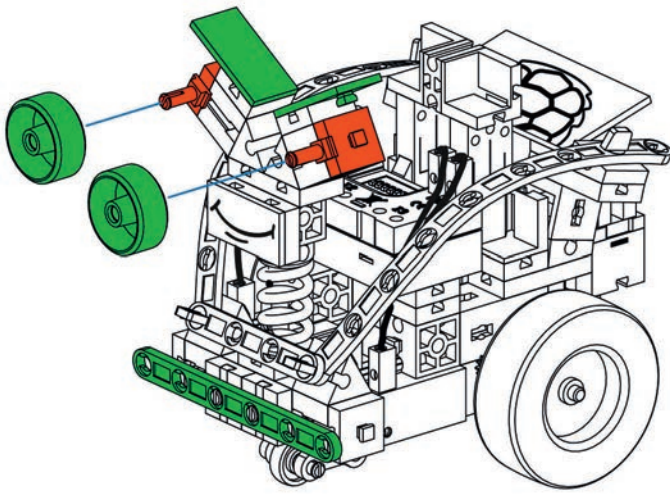


- 13**
- 1x
 - 2x
 - 2x

13

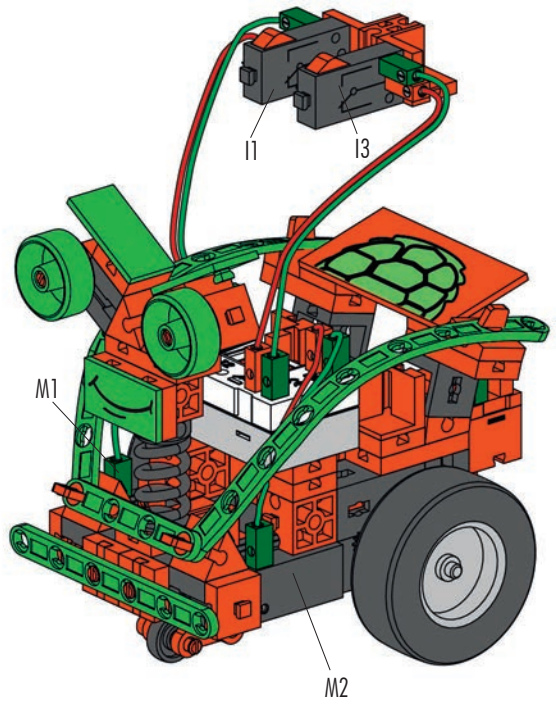


- 14**
- 1x
 - 60° 2x
 - 4x
 - 2x
 - 1x
 - 4 2x



14

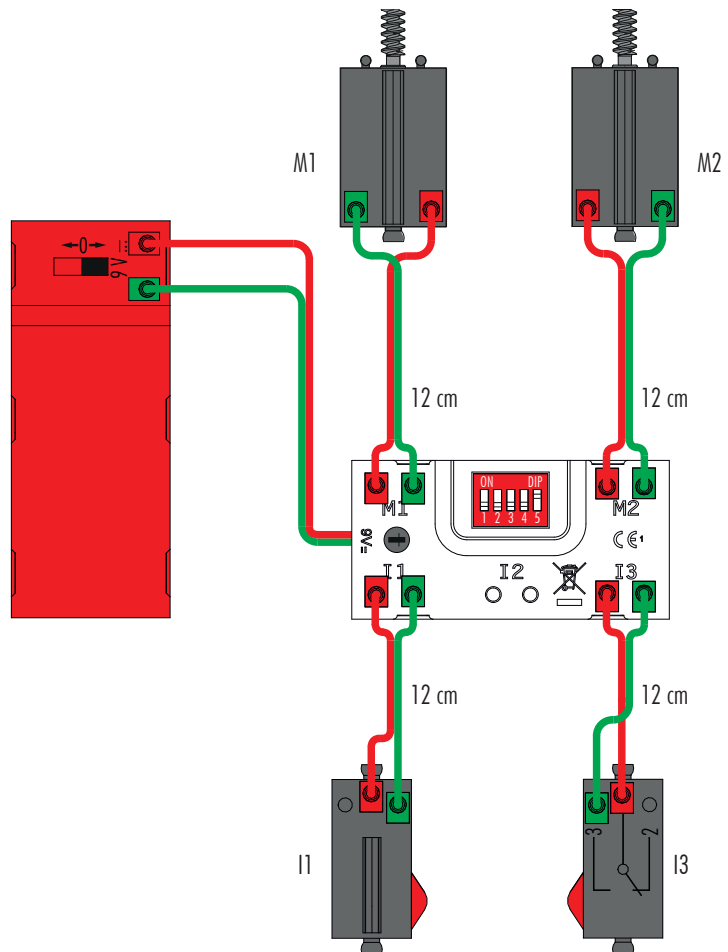
- 2 x [Orange Technic Pin]
- 2 x [Green Technic Gear]
- 2 x [Green Technic 1x2 Beam]
- 1 x [Green Technic 1x75 Beam]



Schaltplan
Circuit diagram
Plan électrique

Schakelschema
Diagrama de circuitos
Plano elétrico de ligação

Schema elettrico
Схема подключения
电路图



■ Hinweise zum Umweltschutz

Die elektrischen und elektronischen Bauteile dieses Baukastens (z. B. Motoren, Lampen, Sensoren) gehören nicht in den Hausmüll. Sie müssen am Ende ihrer Lebensdauer an einem Sammelpunkt für das Recycling von elektrischen und elektronischen Geräten abgegeben werden. Das Symbol auf dem Produkt, der Verpackung oder der Anleitung weist darauf hin.

■ Instructions for Environmental Protection

Do not put the electrical and electronic components of this construction kit such as motors, lights and sensors in the household waste. At the end of their service life, take them to a collection point for the recycling of electrical and electronic devices. The symbol on the product, packaging or the instructions shows this.

■ Remarques de protection de l'environnement

Les composants électriques et électroniques de ce coffret (par ex. moteurs, lampes, capteurs) ne doivent pas être jetés avec les ordures ménagères. Lorsqu'elles ne sont plus utilisables, il faut les remettre auprès d'un centre de collecte spécialisé dans le recyclage des appareils électriques et électroniques. Le symbole sur le produit, l'emballage ou la notice d'instructions le signale.

■ Bescherming van het milieu

De elektrische en elektronische onderdelen van deze module (bijv. motoren, lampen, sensoren) behoren niet bij het huisvuil. Aan het einde van hun levensduur moeten ze worden ingeleverd bij een verzamelplaats voor de recycling van elektrische en elektronische apparaten. Het symbool op het product, de verpakking of de gebruiksaanwijzing wijst je daar ook op.

■ Notas con respecto a la protección del medio ambiente

Los componentes eléctricos y electrónicos de esta unidad modular (p. ej. motores, lámparas, sensores) no han de tirarse a la basura casera. Al final de su vida útil tienen que ser entregados en un puesto colector para el reciclaje de aparatos eléctricos y electrónicos. El símbolo sobre el producto, el embalaje o las instrucciones lo señala.

■ Instruções para a proteção do meio ambiente

Os componentes elétricos e eletrônicos deste módulo (p.ex. motores, lâmpadas, sensores) não pertencem ao lixo doméstico. Eles devem ser entregues, no final da sua vida útil, num posto de coleta para a reciclagem de aparelhos elétricos e eletrônicos. O símbolo no produto, na embalagem ou no manual indica isto.

■ Indicazioni sulla tutela ambientale

I componenti elettrici ed elettronici di questa scatola di montaggio (ad es. motori, lampadine, sensori) non vanno smaltiti tra i rifiuti domestici. Alla fine della loro durata di utilizzo devono essere consegnati a un centro di raccolta adibito al riciclaggio di apparecchi elettrici ed elettronici. Ciò viene indicato dal simbolo che si trova sul prodotto, sull'imballo o sul manuale d'istruzioni.

■ Указания по охране окружающей среды

Электрические и электронные детали этого комплекта (датчики, электромоторы, лампочки и др.) нельзя выбрасывать с бытовым мусором. После того как они отслужат свой срок, их нужно сдать для переработки на сборный пункт электрических и электронных приборов. На это указывает знак на изделии, на упаковке или на инструкции.

■ 有关环保的提示

不得将本组件中的电气和电子部件（如电机，灯泡，传感器）当作家庭垃圾扔掉。等它们的使用寿命结束后，应将它们送抵电气和电子器材回收站。产品、包装或说明书上的标记也说明这一规定。





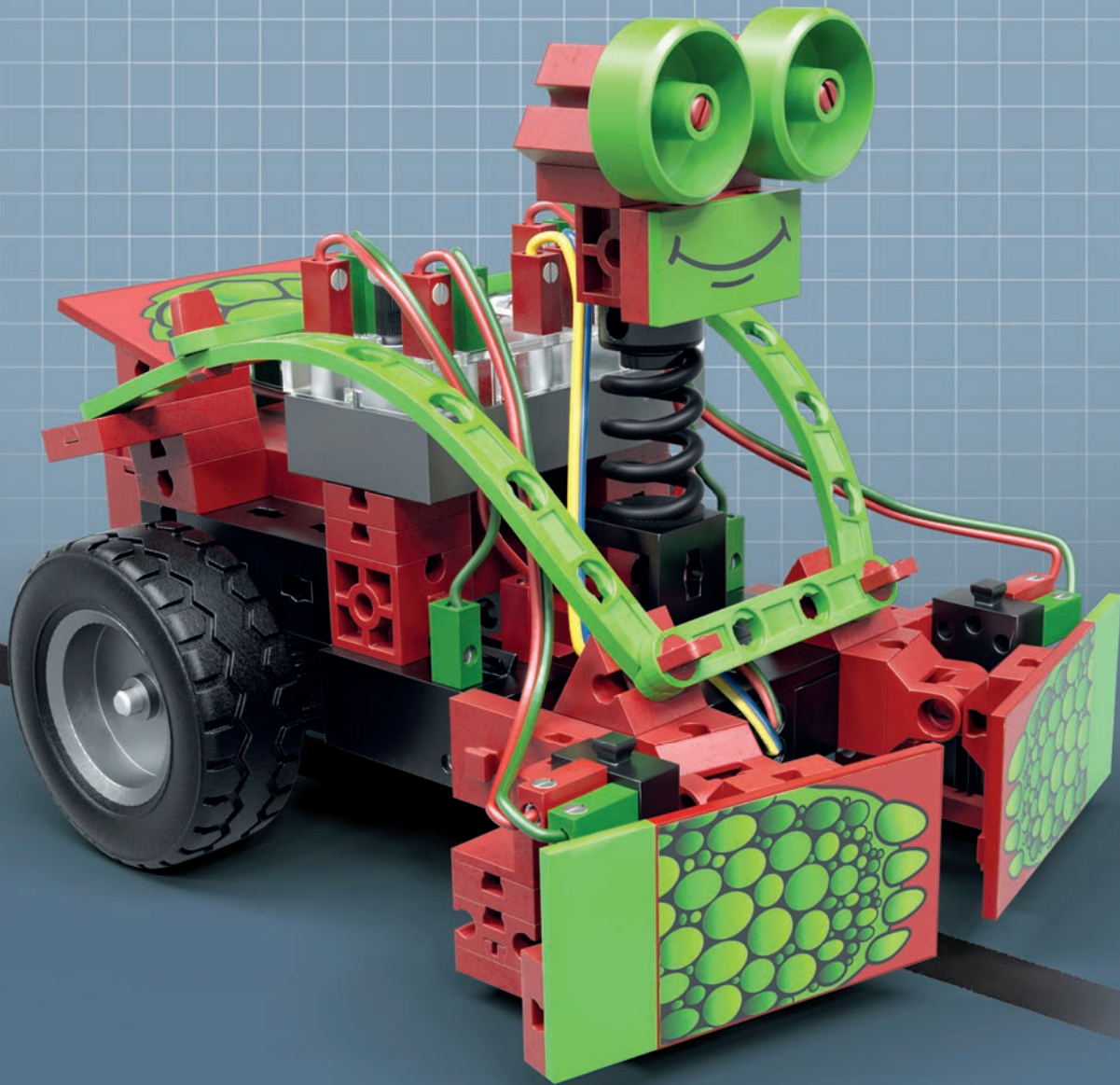
fischertechnik 

ROBOTICS

fischertechnik GmbH
Klaus-Fischer-Str. 1
72178 Waldachtal
Germany

Phone: +49 74 43/12-43 69
Fax: +49 74 43/12-45 91

info@fischertechnik.de
www.fischertechnik.de



157094 - Printed in Germany - Technische Änderungen vorbehalten - Subject to technical modifications

Mini Bots

5 MODELS