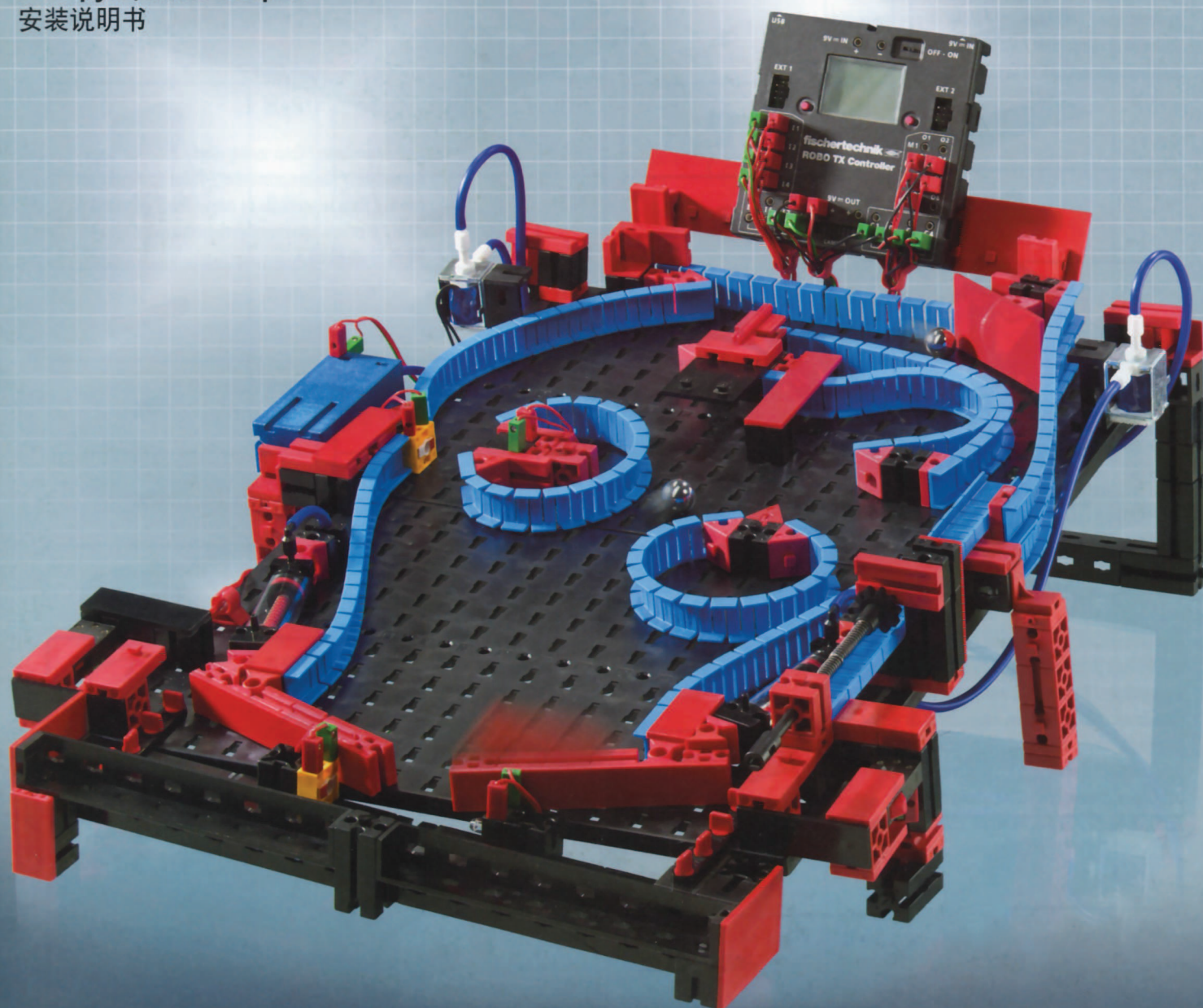


fischertechnik 

COMPUTING

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



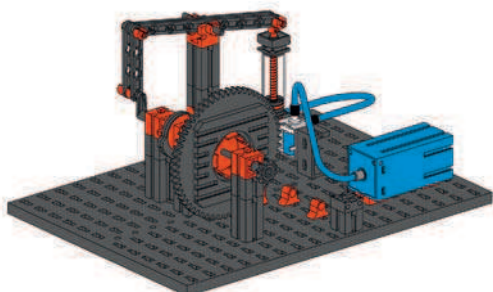
ROBO TX *ElectroPneumatic*

4 MODELS

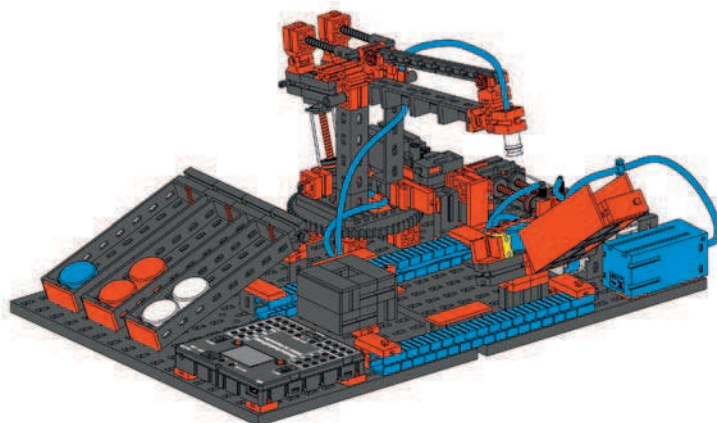
Inhalt Contents Contenu

Einzelteilübersicht / Spare parts list / Liste des pièces détachées / Onderdelenoverzicht / Lista da piezas / Resumo de peça individual /
Singoli componenti / Перечень деталей / 零件概览 1

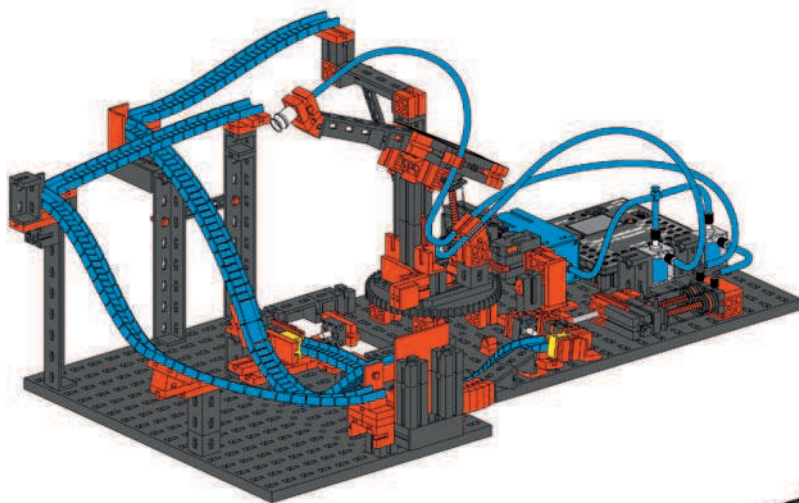
Montagetipps / Tips for assembly / Tuyaux pour le montage / Montagetips / Consejos para el montaje / "Dicas" para montagem /
Consigli per il montaggio / Советы по сборке / 装配建议 2



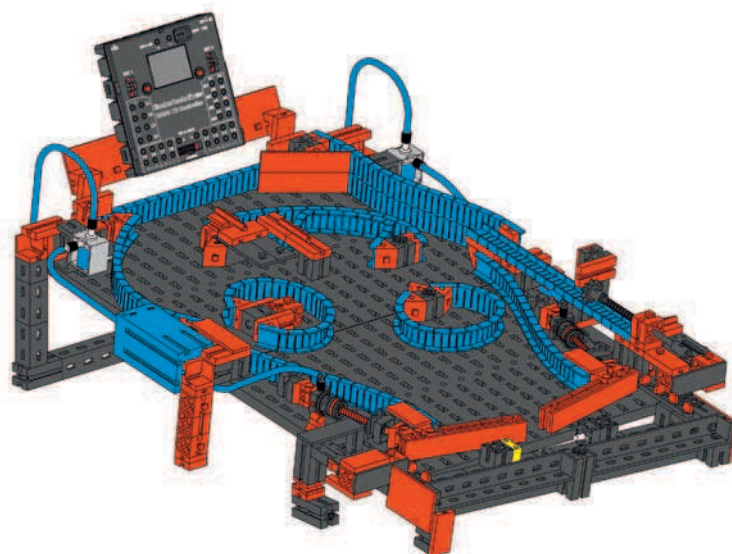
Druckluftmotor / Compressed air motor / Moteur
pneumatique / Persluchtmotor / Motor de aire comprimido /
Motor de ar comprimido / Motore ad aria compressa /
пневмомотор / 压缩空气马达 5



Farbsortierroboter / Color sorting robot / Robot de triage
des couleurs / Kleurensorteerrobot / Robot clasificador por
colores / Robo seleccionador de cores / Robot assortitore di
colori / Робот-цветосортировщик /
辨色分选机器人 9



Kugelparcours mit Vakuumgreifer / Ball obstacle course
with vacuum picker arm / Parcours à billes avec grappin
pneumatique / Kogelparcour met vacuümgreijper /
Pista de recorrido de bola con manipulador de vacío /
Circuito de esferas com agarrador a vácuo / Percorso
sfere con pinza a ventosa / Трасса для
шарика с вакуумным захватом /
配分选机器人的滚珠赛道 21

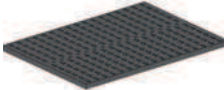


Flipper / Pinball machine / Flipper / Flipper /
Pinball / Flipper / Flipper / пинбол-машина /
弹球机 33

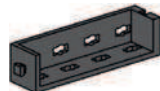
Einzelteilübersicht
Spare parts list
Liste des pièces détachées

	31 010 10 x
	31 011 4 x
	31 040 1 x
	31 058 2 x
	31 060 5 x
	31 061 5 x
	31 078 1 x
	31 082 1 x
	31 330 2 x
	31 336 19 x
	31 337 20 x
	31 390 1 x
	31 391 1 x
	31 422 1 x
	31 426 6 x
	31 436 6 x
	31 597 2 x

Onderdelenoverzicht
Lista da piezas
Resumo de peça individual

	31 642 2 x
	31 690 2 x
	31 981 4 x
	31 982 25 x
	32 064 17 x
	32 071 13 x
	32 293 1 x
	32 330 5 x
	32 850 7 x
	32 879 10 x
	32 880 2 x
	32 881 24 x
	32 882 6 x
	32 985 2 x
	35 031 2 x
	35 049 23 x
	35 063 1 x

Singoli componenti
Перечень деталей
零件概览

	36 915 3 x
	36 920 11 x
	36 921 2 x
	36 922 3 x
	36 950 4 x
	36 952 1 x
	37 034 1 x
	37 157 1 x
	37 237 28 x
	37 238 3 x
	37 468 18 x
	37 636 2 x
	37 679 6 x
	37 727 2 x
	37 783 2 x
	37 875 2 x
	38 216 2 x

Einzelteilübersicht
Spare parts list
Liste des pièces détachées

	38 240 7 x
	38 241 7 x
	38 242 3 x
	38 245 2 x
	38 246 3 x
	38 248 2 x
	38 251 2 x

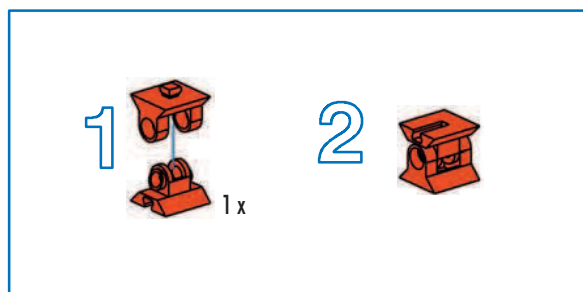
Onderdelenoverzicht
Lista da piezas
Resumo de peça individual

	38 261 6 x
	38 414 1 x
	38 423 3 x
	38 428 3 x
	38 464 2 x
	38 546 2 x
	121 470 1 x

Singoli componenti
Перечень деталей
零件概览

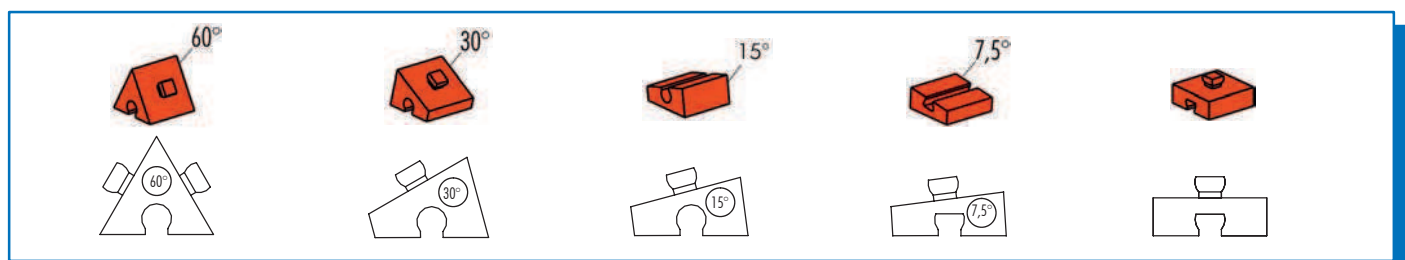
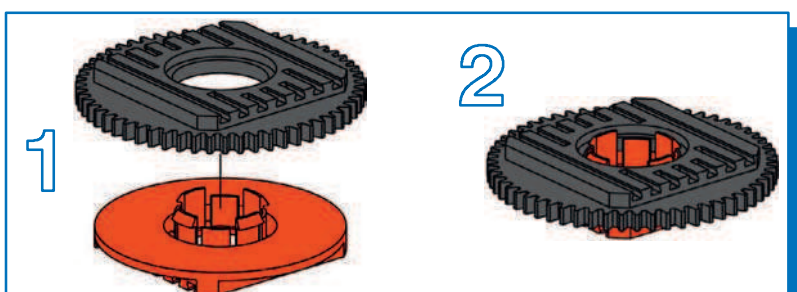
	133 028 1 x
	133 200 2 x
	133 201 2 x
	133 202 2 x
	144 262 2 x

Montagetipps
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



Erfinder Flexprofil Art.-Nr. 121 641:
Design und Konzeption Andreas Lehrberger



Montagetipps 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

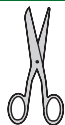
Kabel und Stecker
Plugs and cables
Fiches et des câbles

Stekkers en cables
Enchufes en cables
Cabos e contatos

Cavi e connettori
Провода и штекеры
电缆和插头

1

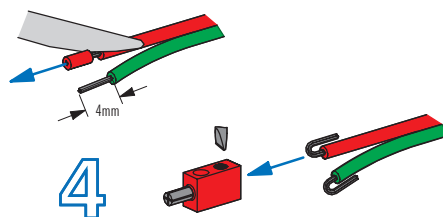
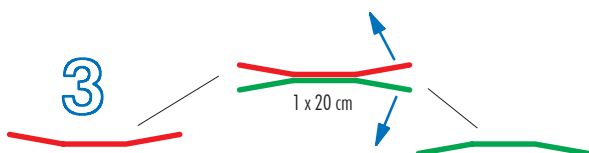
1 x 20 cm
3 x 35 cm
4 x 55 cm



2

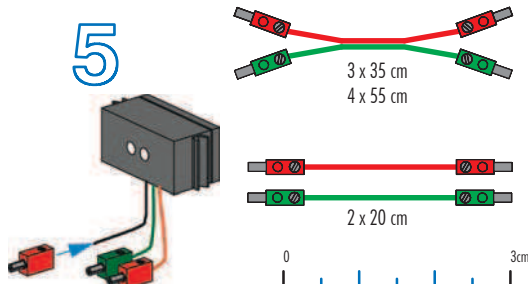


3



4

5



3 x 35 cm
4 x 55 cm

2 x 20 cm

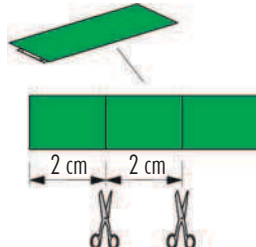


3/2-Wege-Magnetventil
3/2 Way Magnetic Valve
Distributeur électromagnétique à 3/2 voies

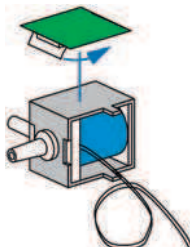
3/2-weg magneetklep
Válvula electromagnética de 3/2 vías
Válvula magnética de 3/2 vías

Distributore elettromagnetico a 3/2 vie
3/2-ходовой электромагнитный клапан
两位三通电磁阀

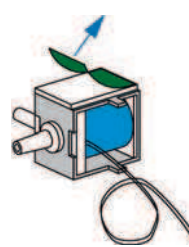
1



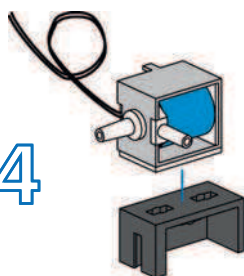
2



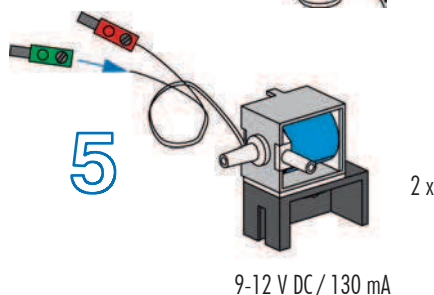
3



4



5



2 x

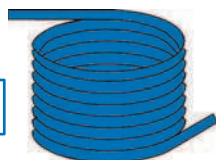
9-12 V DC / 130 mA

Schlauchzuschnitte
Hose cut to length
Découpe de tuyau

Slangdelen
Recortes de tubos flexibles
Recortes de mangueira

Spezzoni di tubo
Штуцеры
软管段

1



2



3



1 x 2 cm
2 x 7 cm
2 x 15 cm
2 x 30 cm
2 x 40 cm
1 x 50 cm

Sicherheitshinweise Safety Information Consignes de sécurité

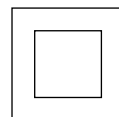
Veiligheidsrichtlijnen Indicaciones de seguridad Observações sobre segurança

Informazioni per la sicurezza

Указания по технике безопасности 安全指南

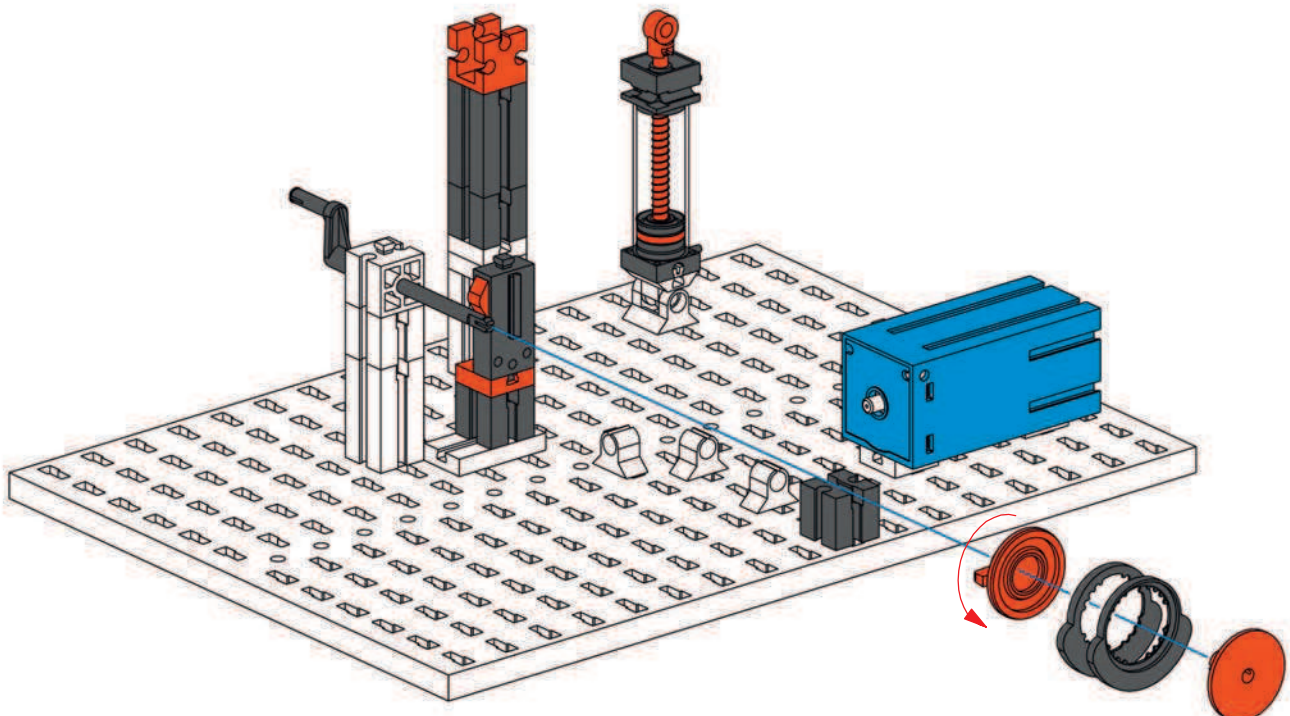
- Die Anschlussklemmen dürfen nicht kurzgeschlossen werden.
 - Drähte nicht in Steckdose einführen!
 - Ladegerät regelmäßig auf Schäden überprüfen. Bei einem Schaden darf das Ladegerät bis zur vollständigen Reparatur nicht mehr verwendet werden.
 - Alle elektrischen Bauteile (Motoren, Lampen, ROBO TX Controller) dürfen ausschließlich an Stromversorgungen von fischertechnik angeschlossen werden.
- Do not short circuit the connecting terminals!
 - 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.
 - No electrical components (motors, lamps, ROBO TX Controller) are to be connected to any other power supply than that provided by fischertechnik.
- Il est interdit de court-circuiter les bornes de raccordement.
 - 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
 - Tous les composants électriques (moteurs, lampes, ROBO TX Controller) ne doivent être branchés aux alimentations électriques uniquement que par la société Fischertechnik.
- De aansluitklemmen mogen niet worden kortgesloten.
 - 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.
 - Alle elektrische componenten (motoren, lampen, ROBO TX Controller) mogen uitsluitend op stroomvoorzieningen van fischertechnik worden aangesloten.
- Los bornes de conexión no pueden ser puestos en cortocircuito.
 - 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.
 - Todos los componentes eléctricos (motores, luces, ROBO TX Controller) deben conectarse a la alimentación de corriente de la técnica Fischer exclusivamente.
- Os terminais de conexão não devem ser curto-circuitados.
 - 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.
 - Todas as peças componentes elétricas (motores, lâmpadas, ROBO TX Controller) só podem ser exclusivamente conectadas em abastecimentos de corrente da Fischertechnik.
- I morsetti di allacciamento non devono essere cortocircuitati.
 - 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.
 - Tutti i componenti elettrici (motori, lampadine, ROBO TX Controller) devono essere collegati esclusivamente ad alimentatori fischertechnik.
- Не замыкайте накоротко соединительные клеммы.
 - 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.
 - Все электрические детали (электромоторы, лампочки.) можно подключать только к источникам электропитания от fischertechnik.
- 接线柱不允许被短路。
 - 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。
 - 只允许将所有电气部件（传感器，电机）与慧鱼技术产品的电源装置相连接

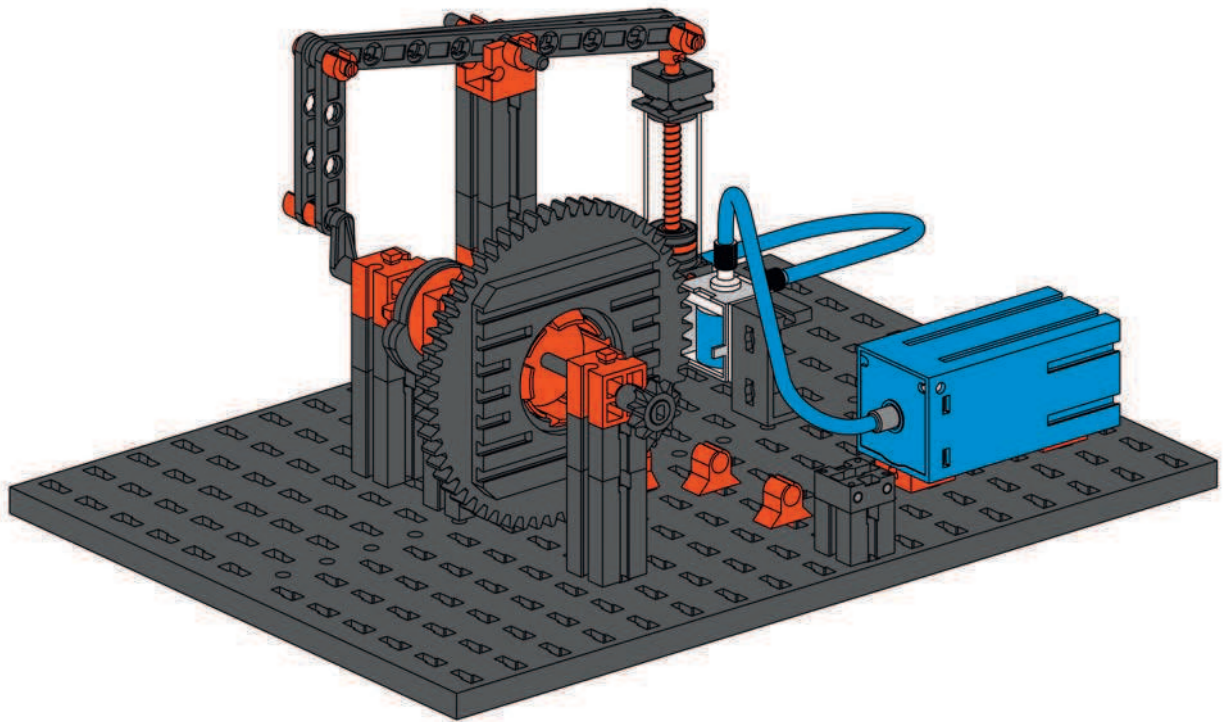
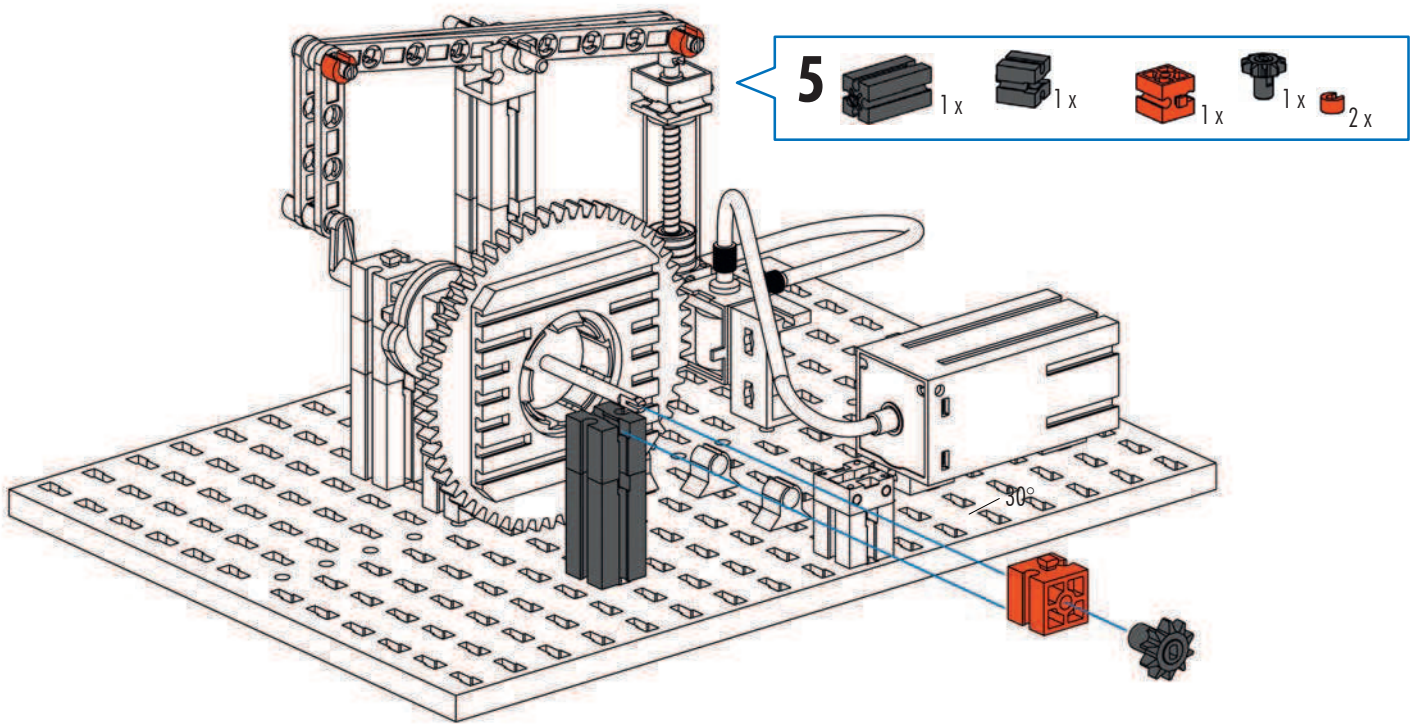
- Die Modelle dürfen nur an Geräte der Schutzklasse II angeschlossen werden, die mit dem entsprechenden Symbol gekennzeichnet sind.
- Ensure that the models are connected only to equipment rated in protection category II and marked with the appropriate symbol.
- Le raccordement des maquettes est uniquement permis à des appareils dotés de la catégorie de protection II qui portent le pictogramme respectif.
- De modellen mogen alleen op apparaten uit beschermingsklasse II worden aangesloten, die zijn voorzien van het bijbehorende symbool.
- Los modelos sólo pueden ser conectados a aparatos de clase de protección II que están identificados con el símbolo correspondiente.
- Os modelos somente devem ser conectados nos aparelhos da classe de proteção II, que são identificados com o símbolo correspondente.
- I modelli devono essere collegati solo ad apparecchi della classe di protezione II, contrassegnati con il relativo simbolo.
- Модели можно подключать только к приборам класса защиты II, обозначенным соответствующим знаком.
- 这些模型只允许连接到具有防护等级 II 的装置上，这类装置被用相应的符号进行了标识。



- 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 scherpe 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!
- Atenção! 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！

- 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 limpas.
- 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。

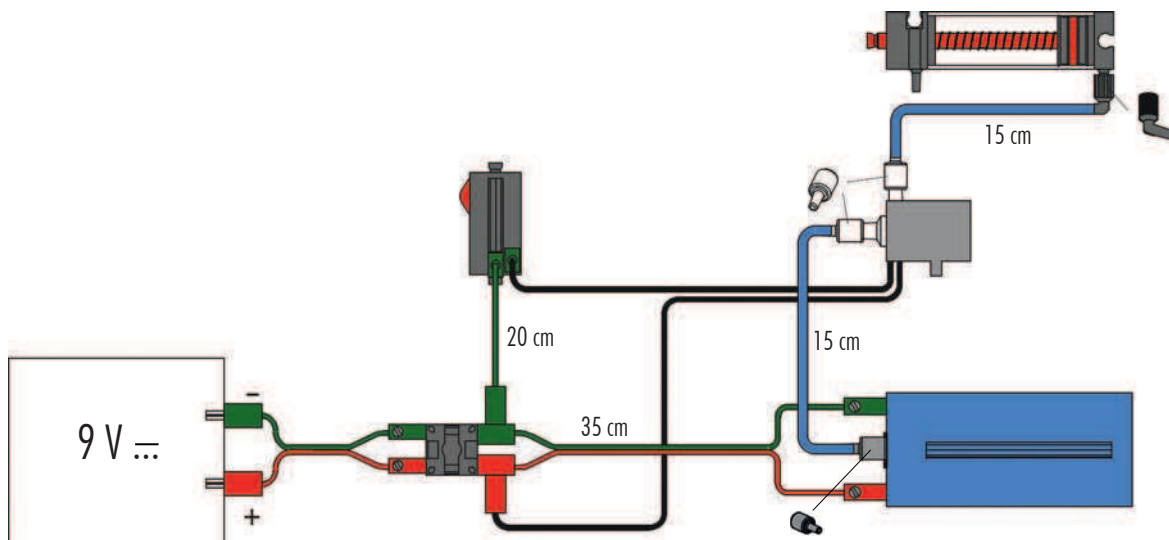


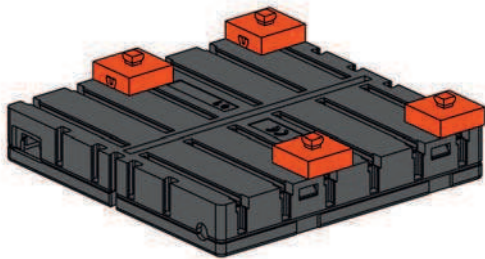


Schaltplan A
Circuit diagram A
Plan électrique A

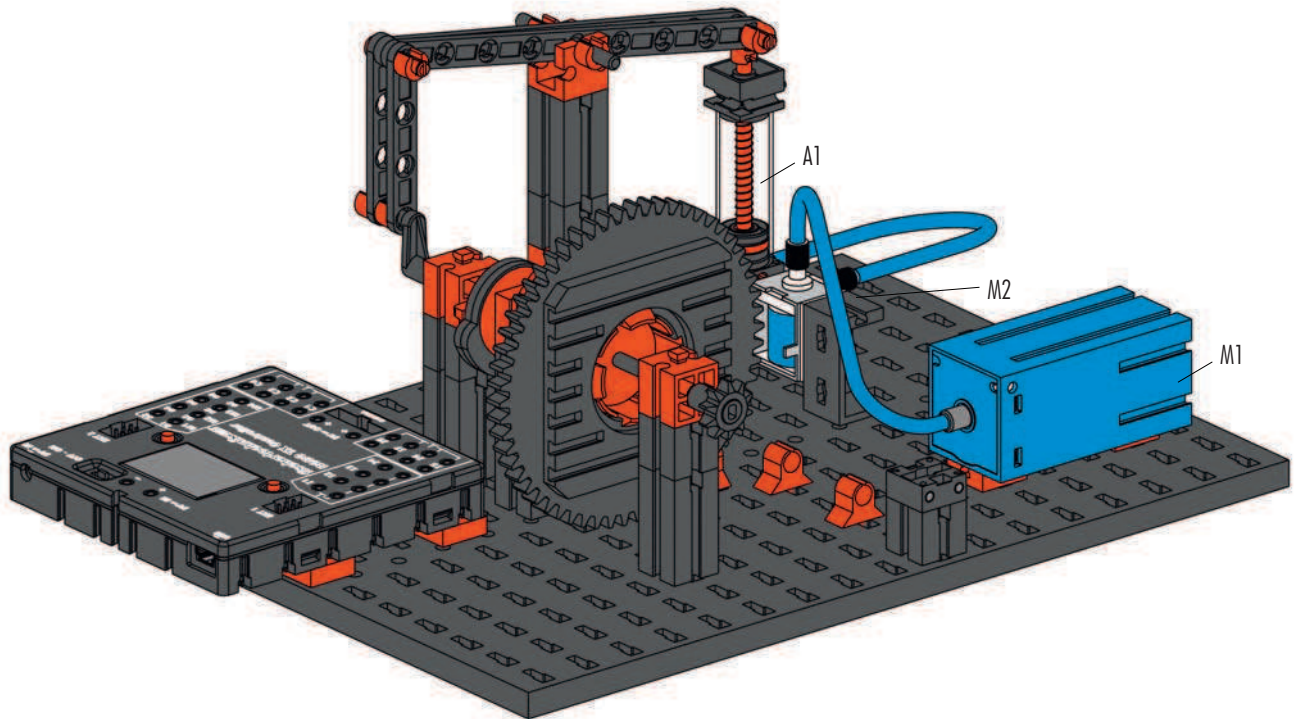
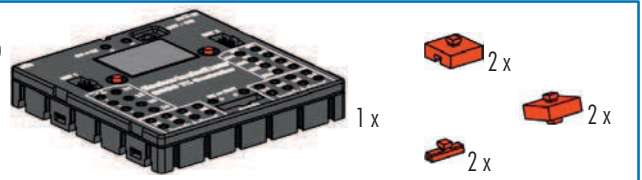
Schakelschema A
Diagrama de circuitos A
Plano elétrico de ligação A

Schema elettrico A
Схема подключения A
电路图 A





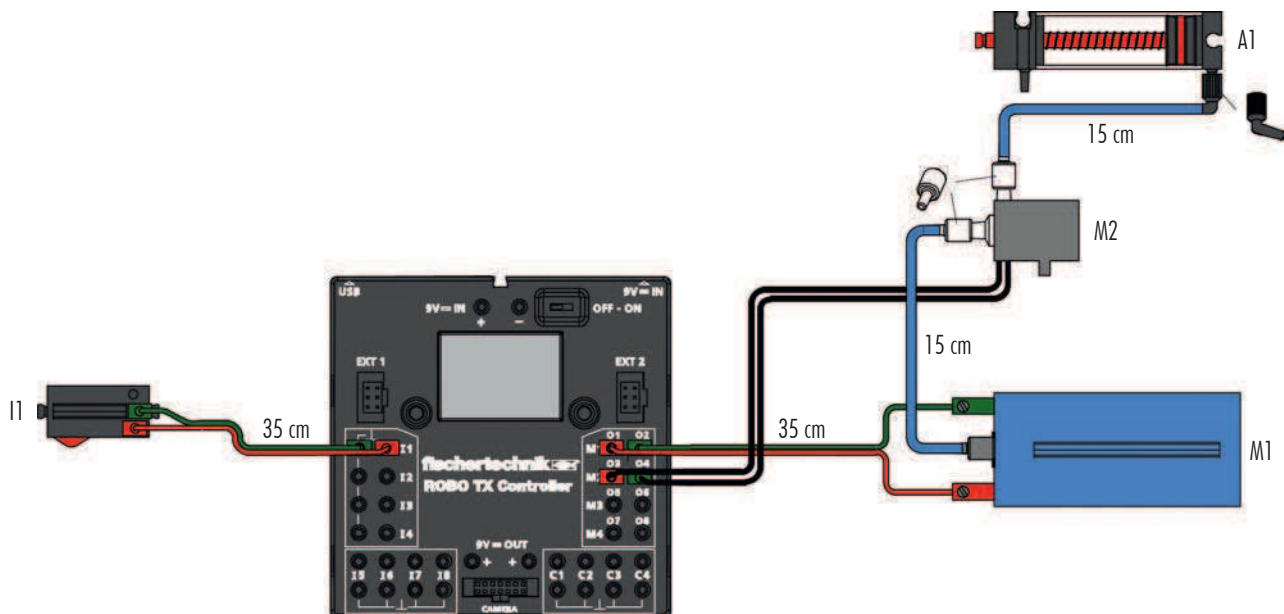
6



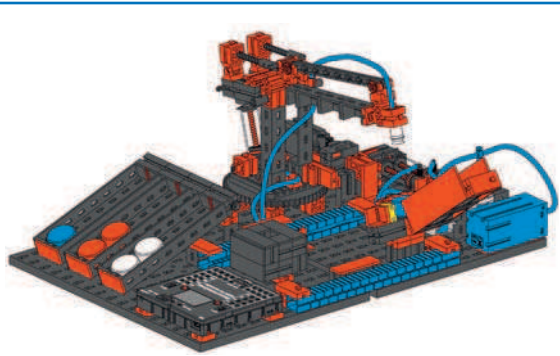
Schaltplan B
Circuit diagram B
Plan électrique B

Schakelschema B
Diagrama de circuitos B
Plano elétrico de ligação B

Schema elettrico B
Схема подключения B
电路图 B



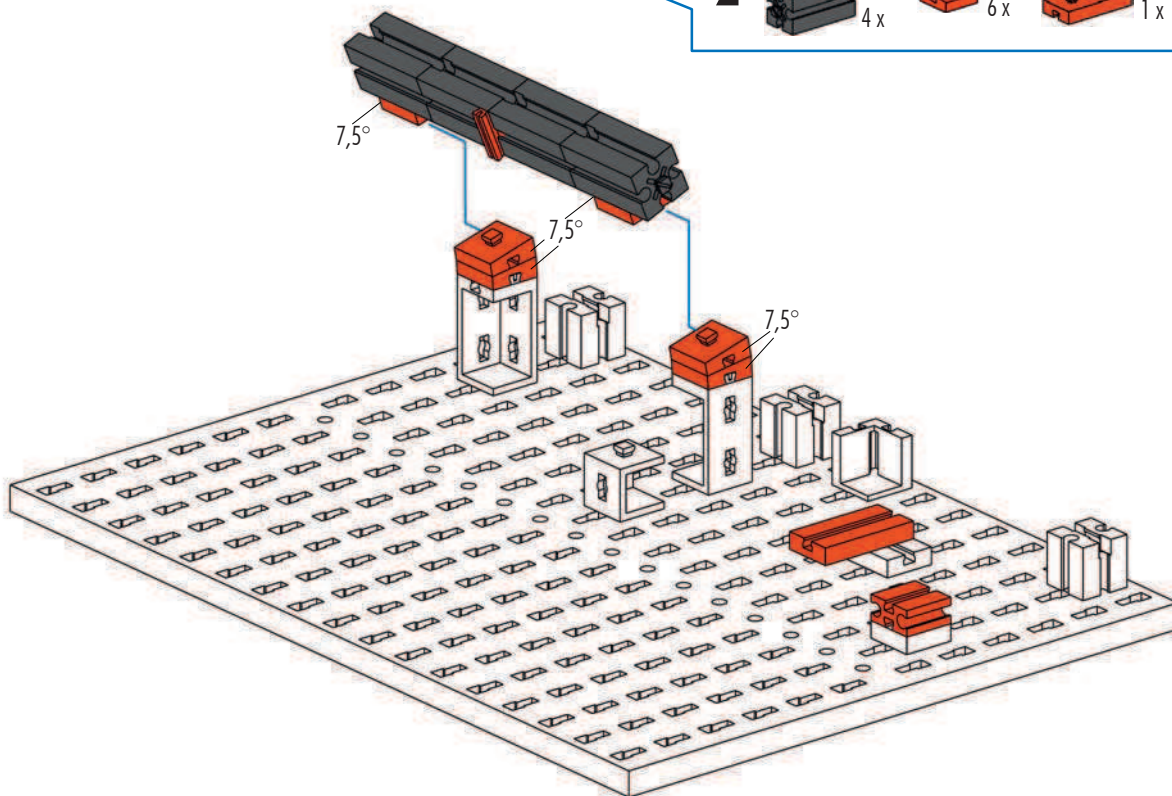
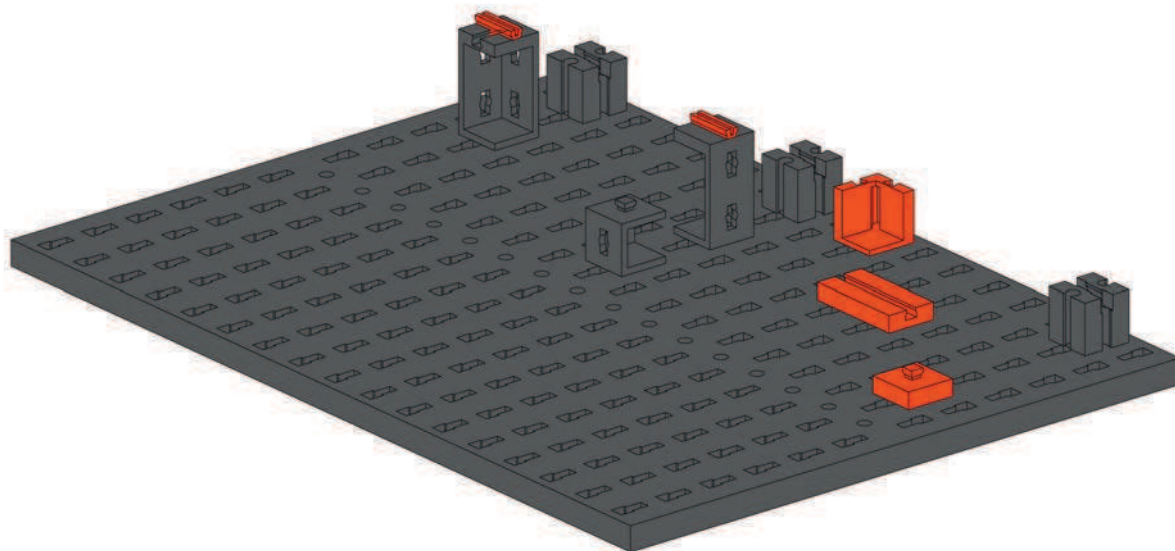
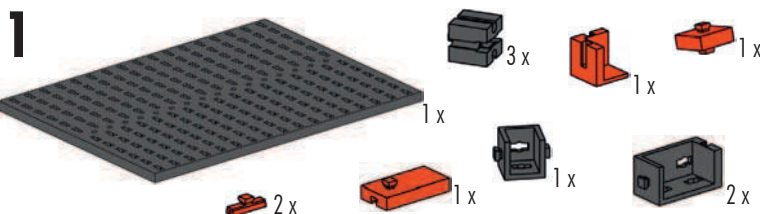
- Informationen zur Programmierung des Modells: Siehe didaktisches Begleitmaterial auf CD-ROM.
- Information on programming model: See related instructional material on CD-ROM.
- Informations concernant la programmation de la maquette : voir le matériel d'accompagnement didactique sur le CD-ROM.
- Informatie over de programmering van het model: Zie het didactisch begeleidend materiaal op CD-ROM.
- Informaciones sobre la programación del modelo: Véase material didáctico adjunto en el CD-ROM.
- Informações sobre a programação do modelo: ver o material didático de acompanhamento no CD-ROM.
- Informazioni sulla programmazione del modello: vedi materiale didattico su CD-ROM.
- Информация о программировании модели: смотрите обучающий сопроводительный материал на CD.
- 有关该模型编程的信息：见 CD 光盘上的指导性说明资料。

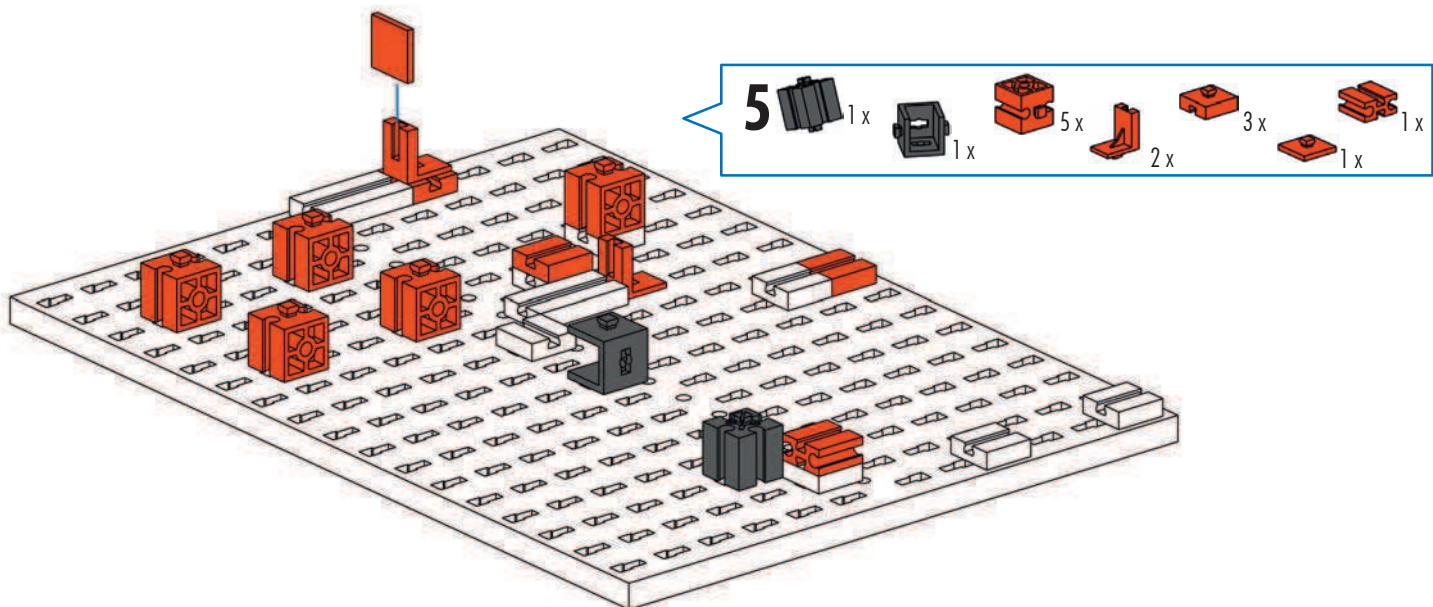
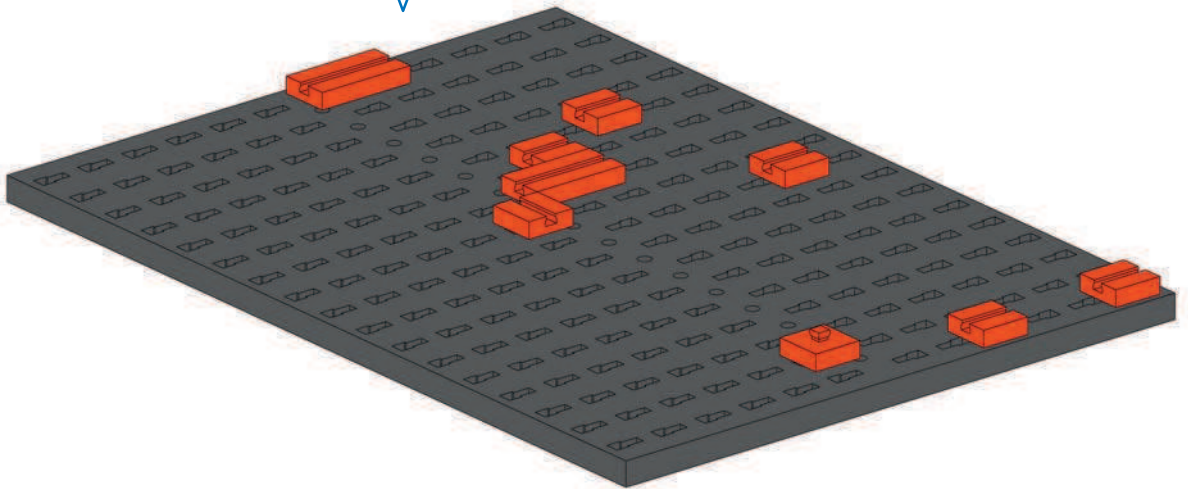
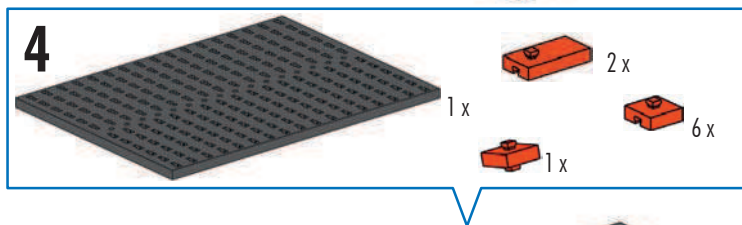
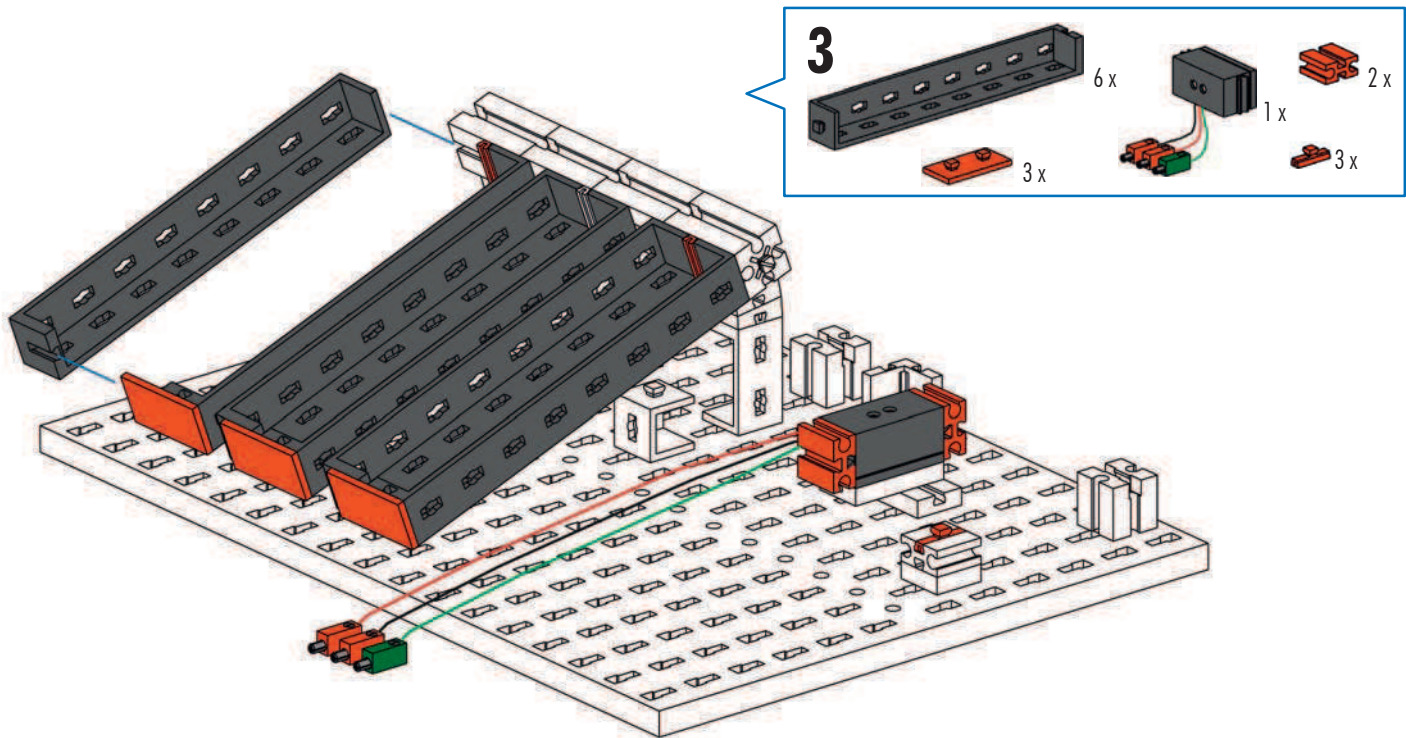


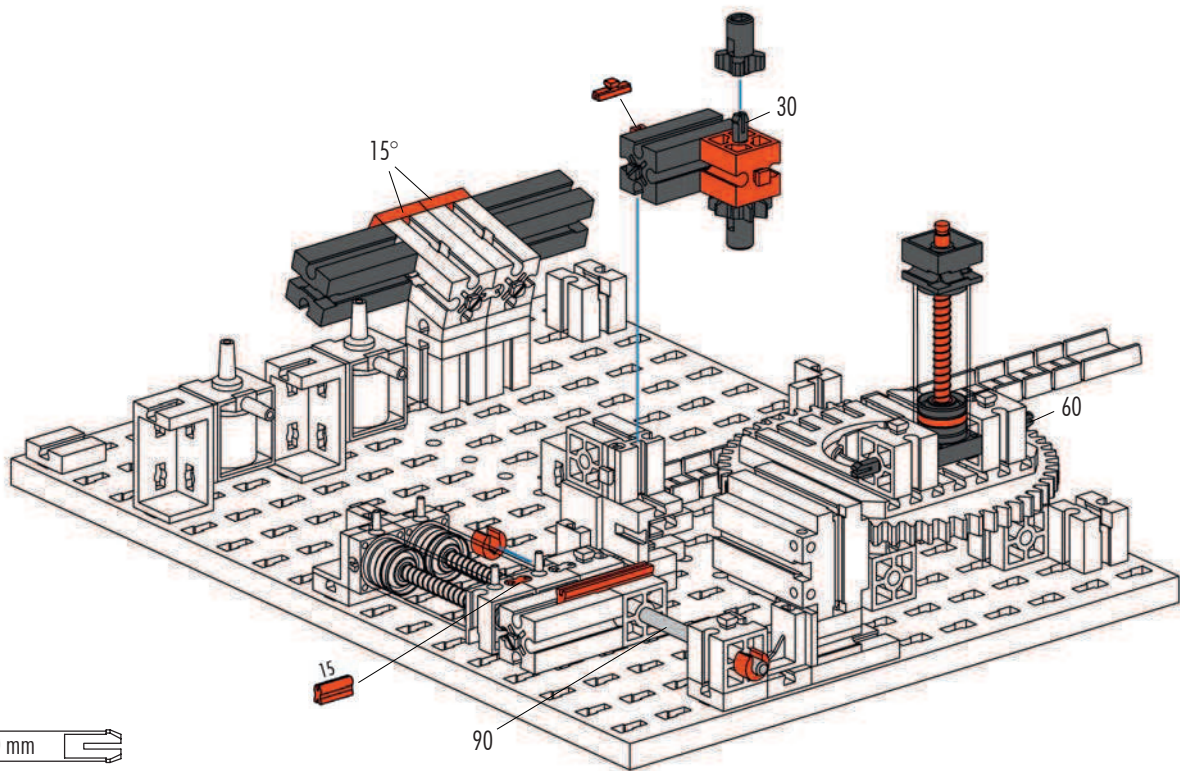
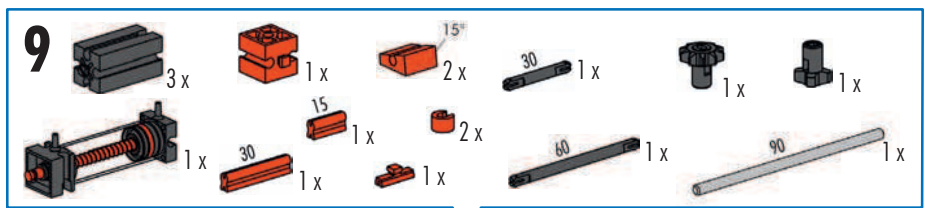
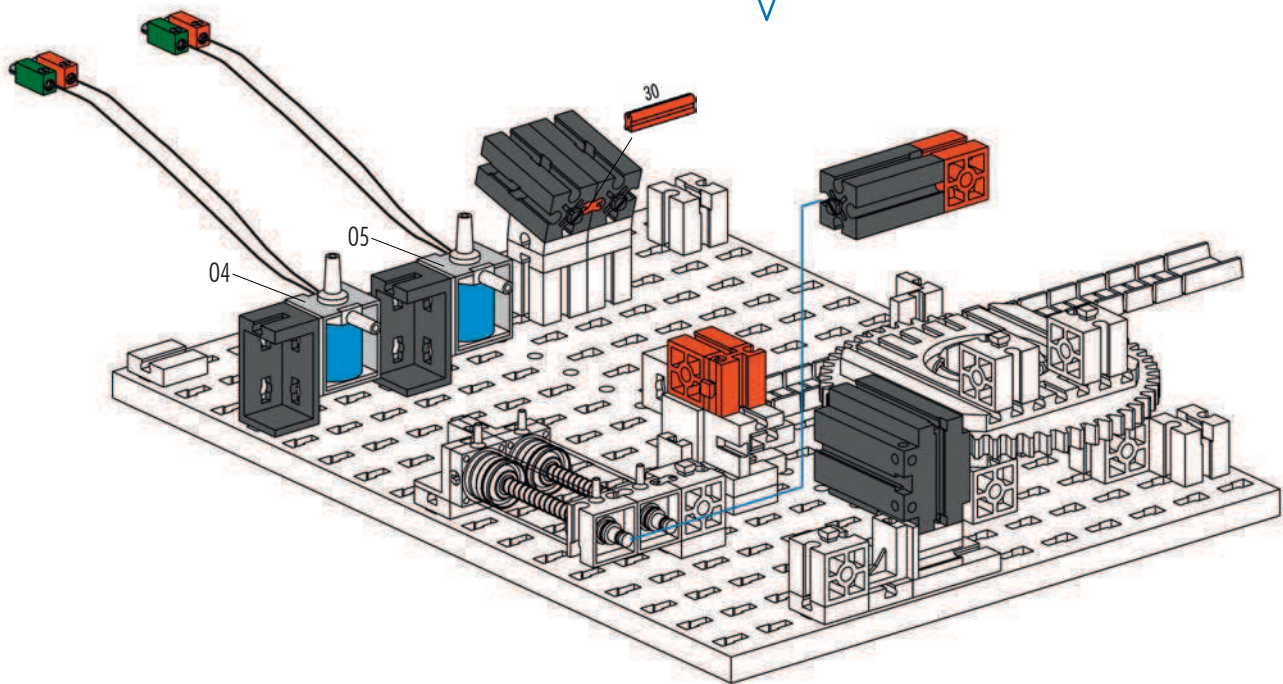
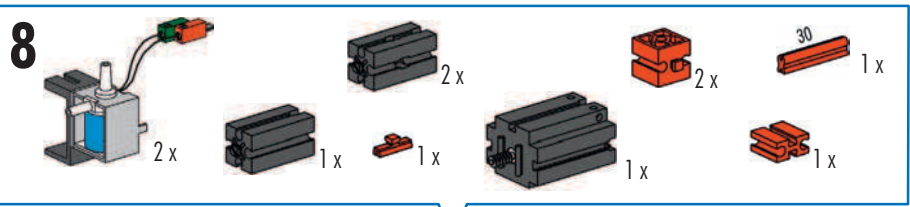
Farbsortierrobot
Color sorting robot
Robot de triage des couleurs

Kleurensorteerrobot
Robot clasificador por colores
Robo seleccionador de cores

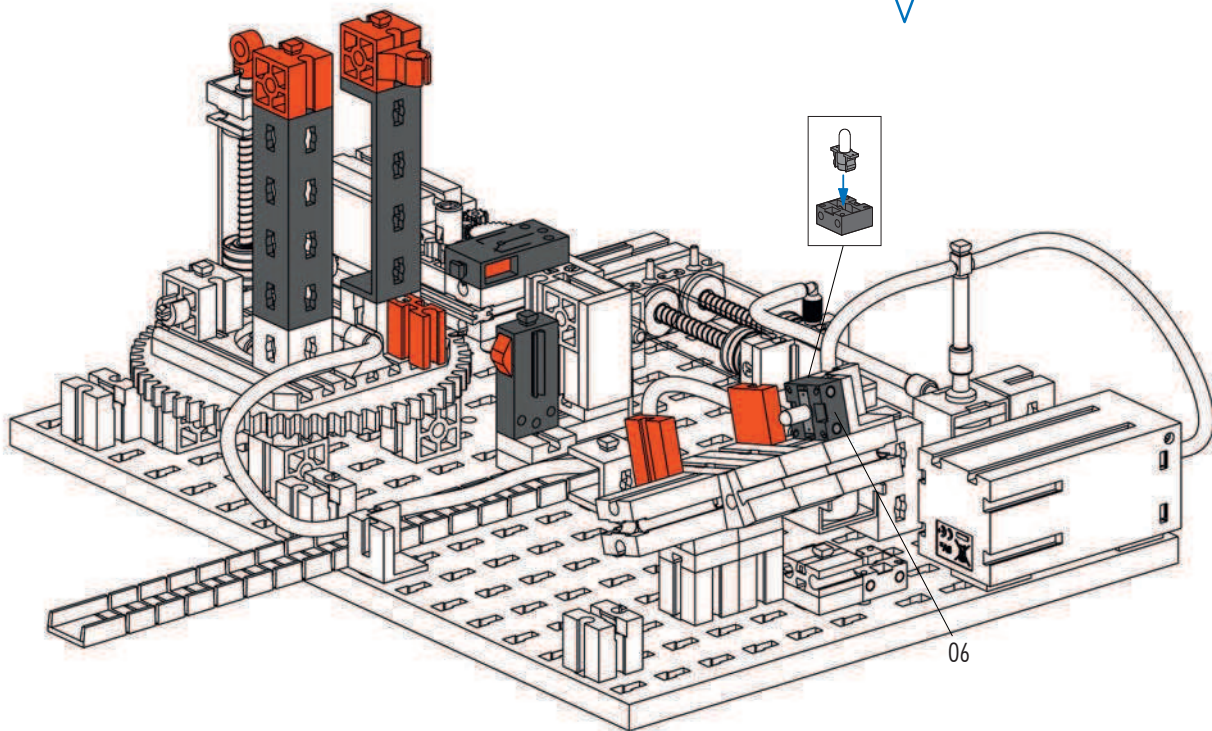
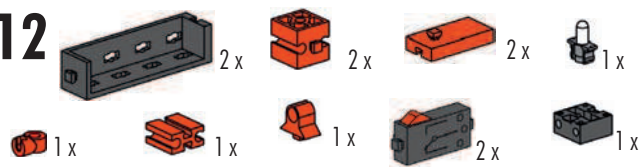
Robot assortitore di colori
Робот-цветосортировщик
辨色分选机器人



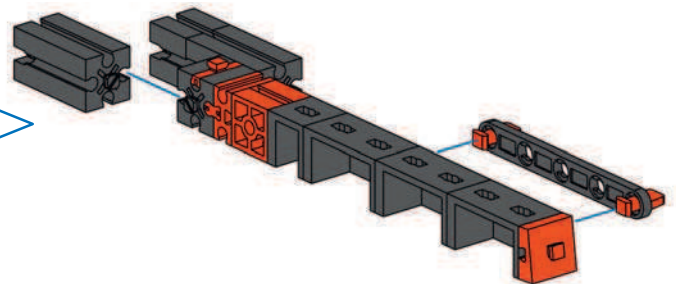
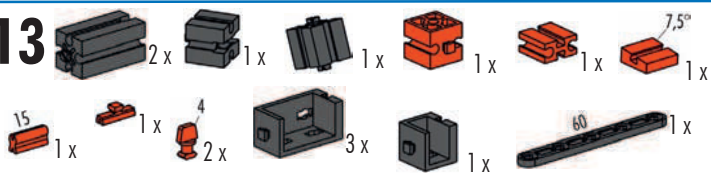




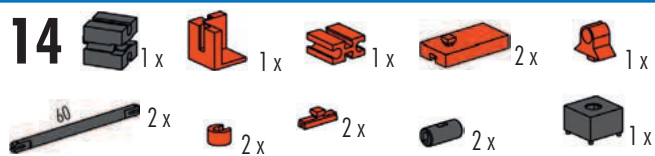
12



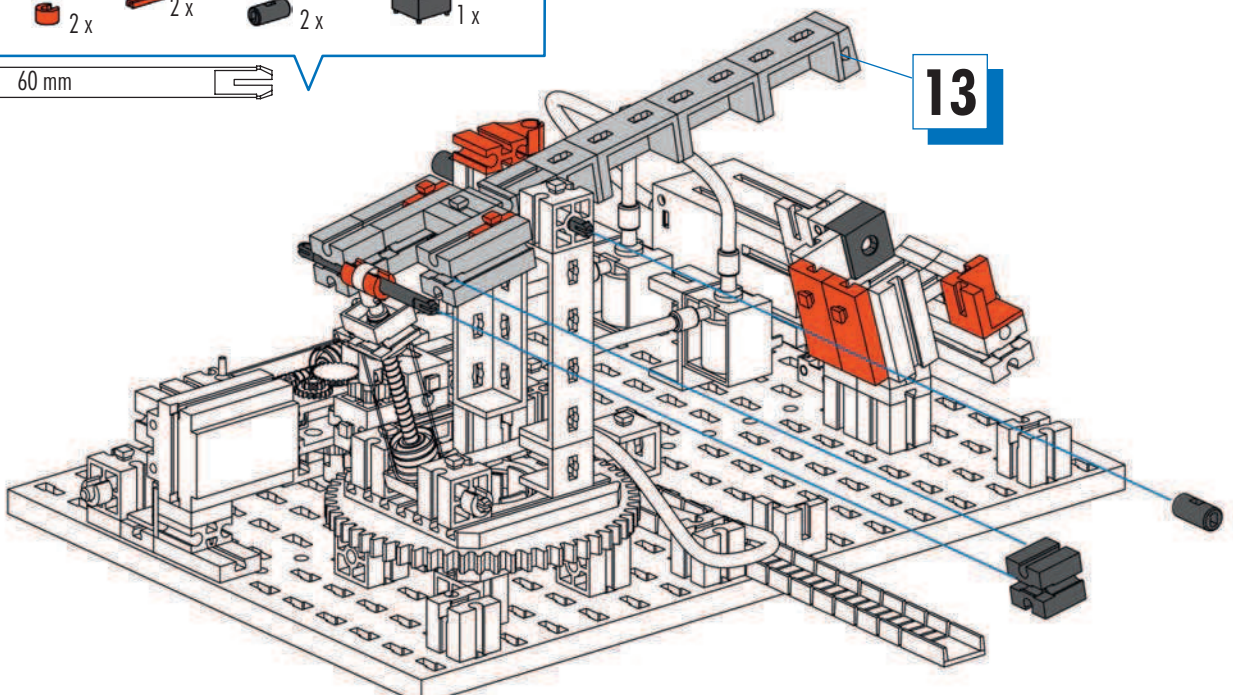
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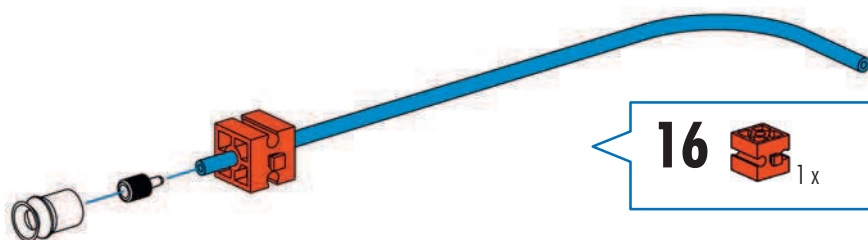
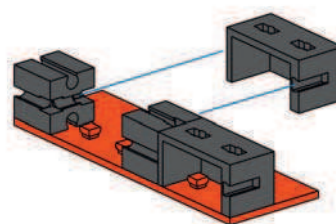
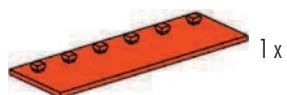
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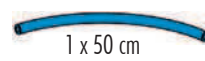
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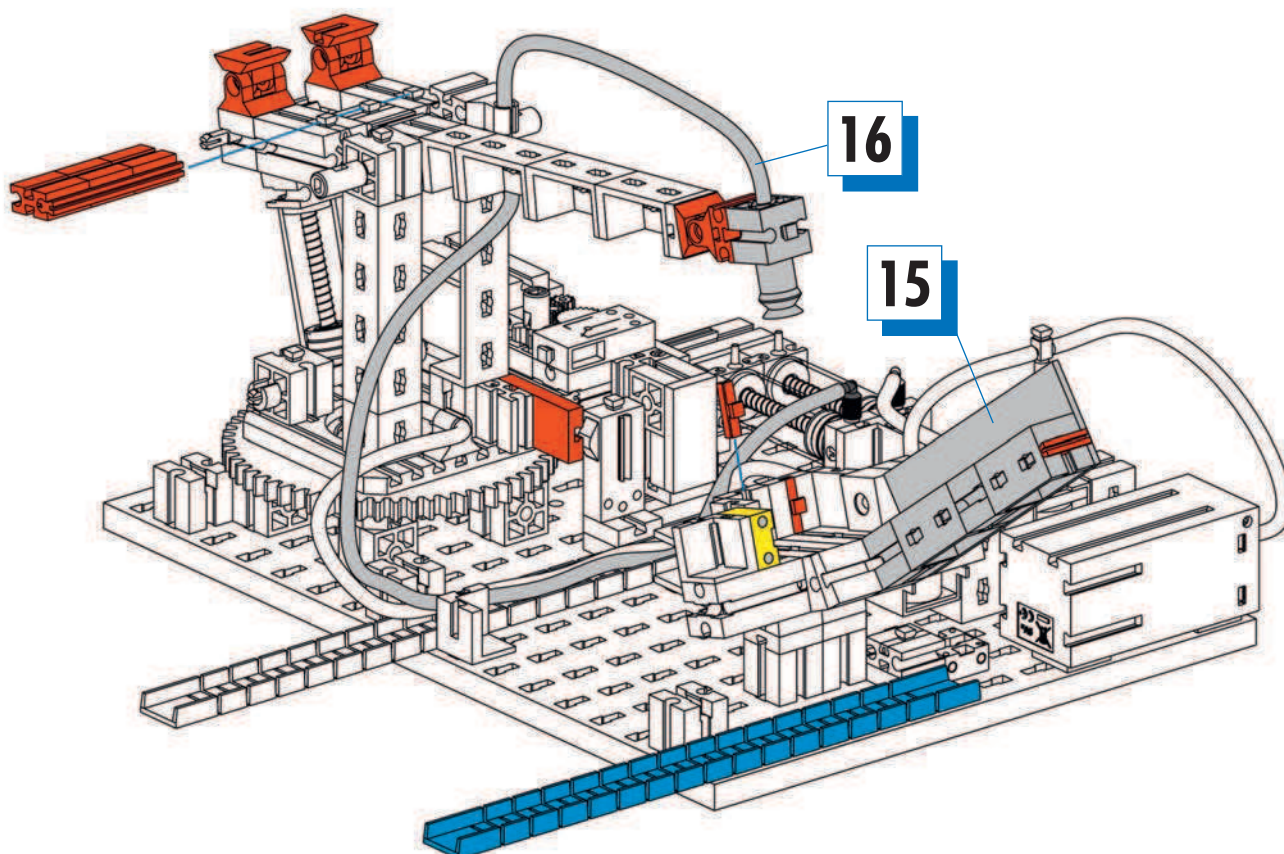
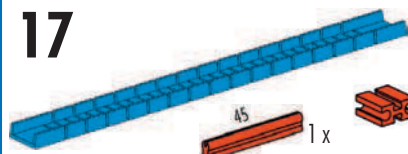
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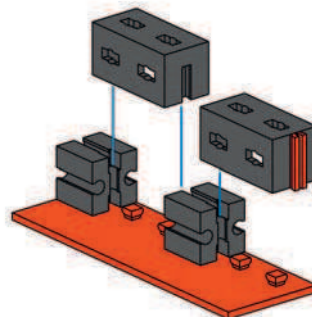
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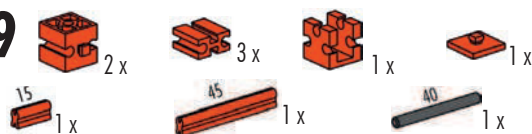
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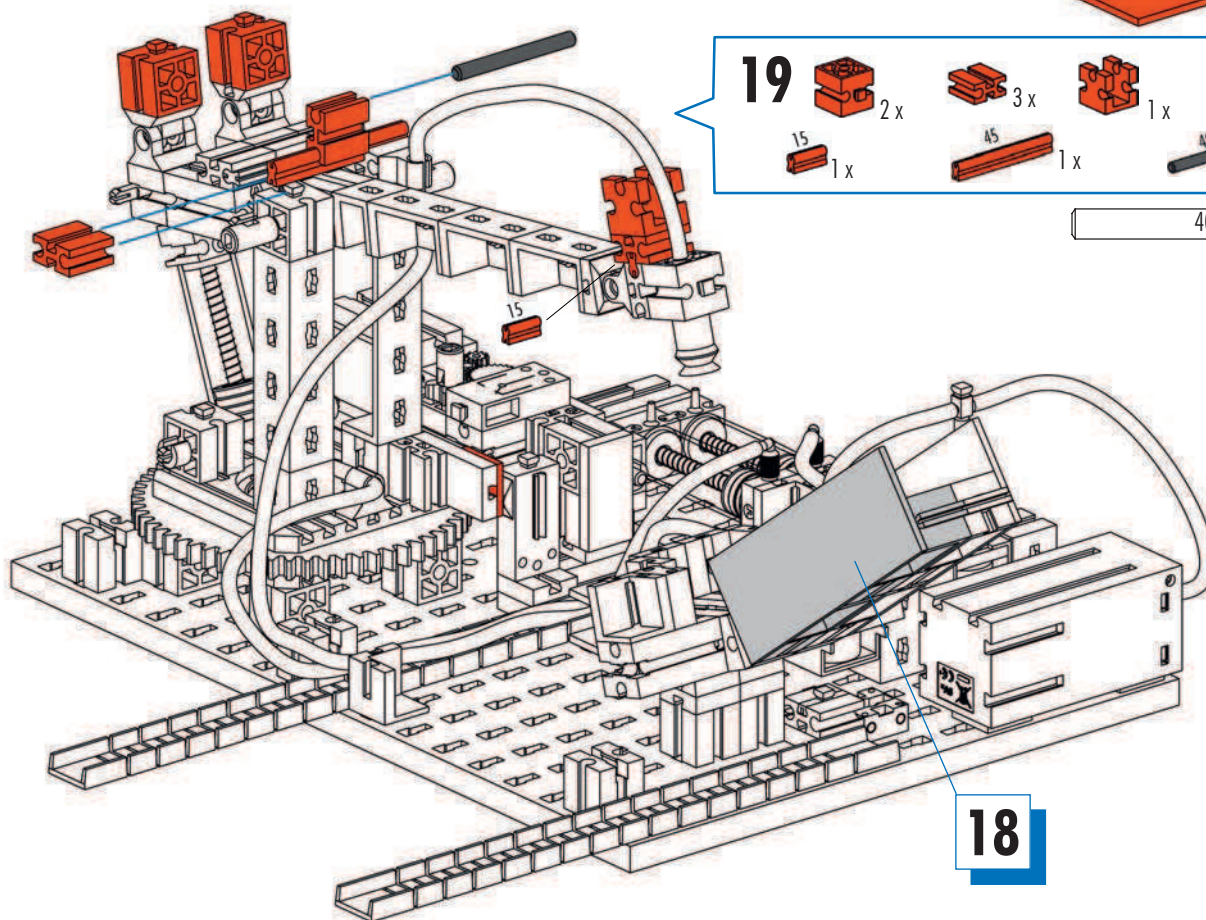
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19

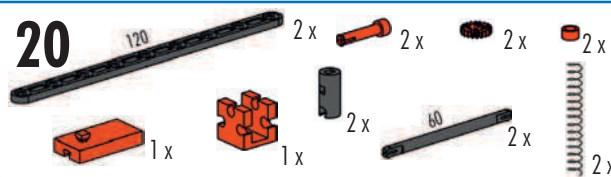


40 mm

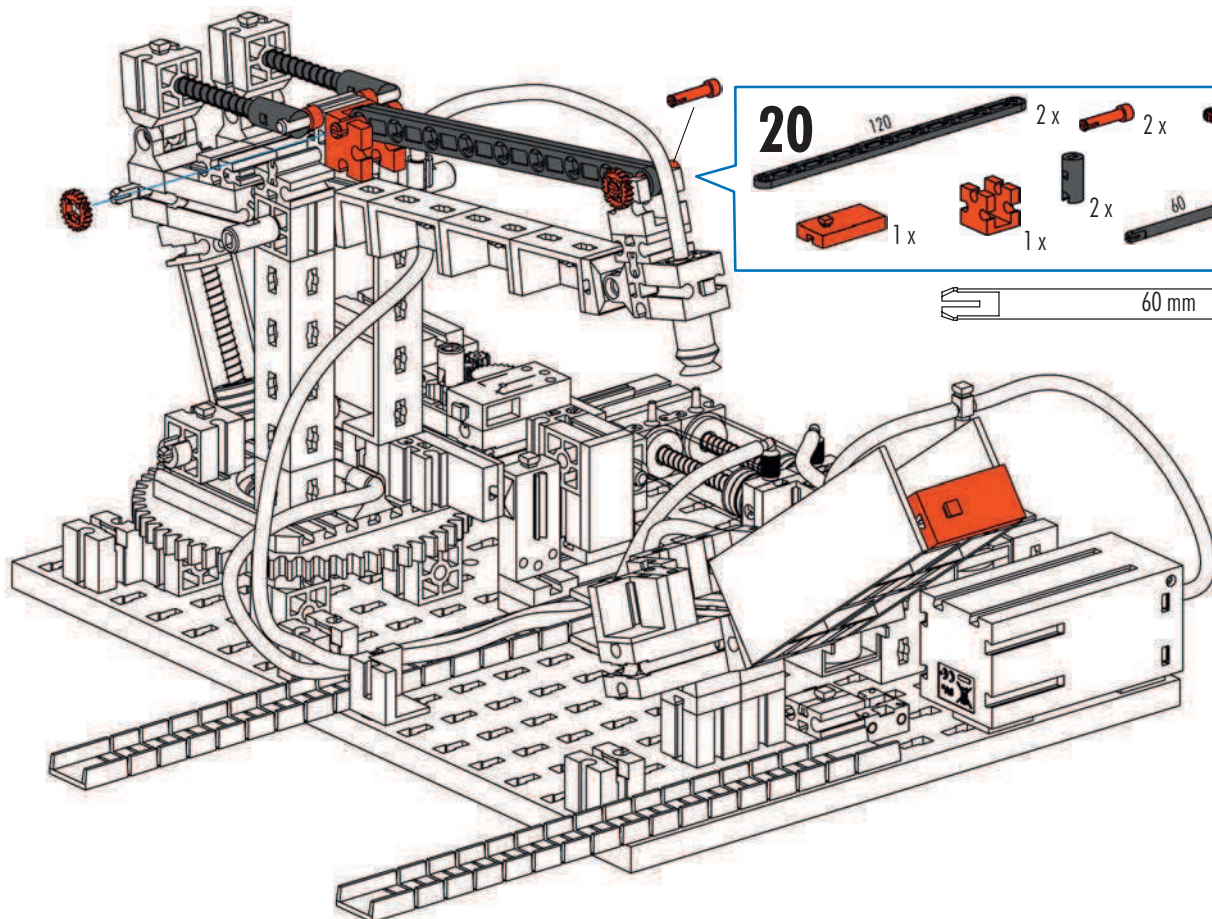


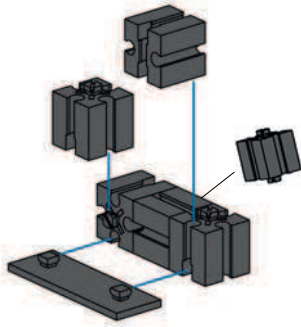
18

20



60 mm





21



4x



1x



1x

22



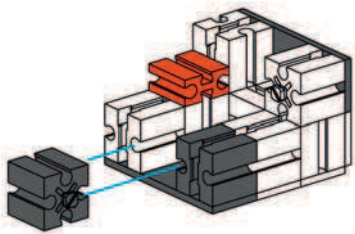
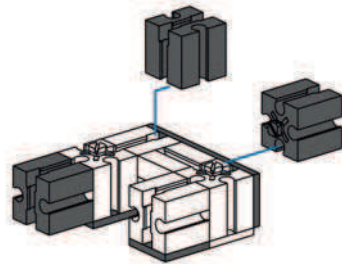
3x



1x



2x



23



1x



1x



2x



1x

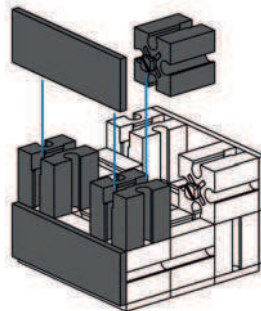
24



3x



2x



25

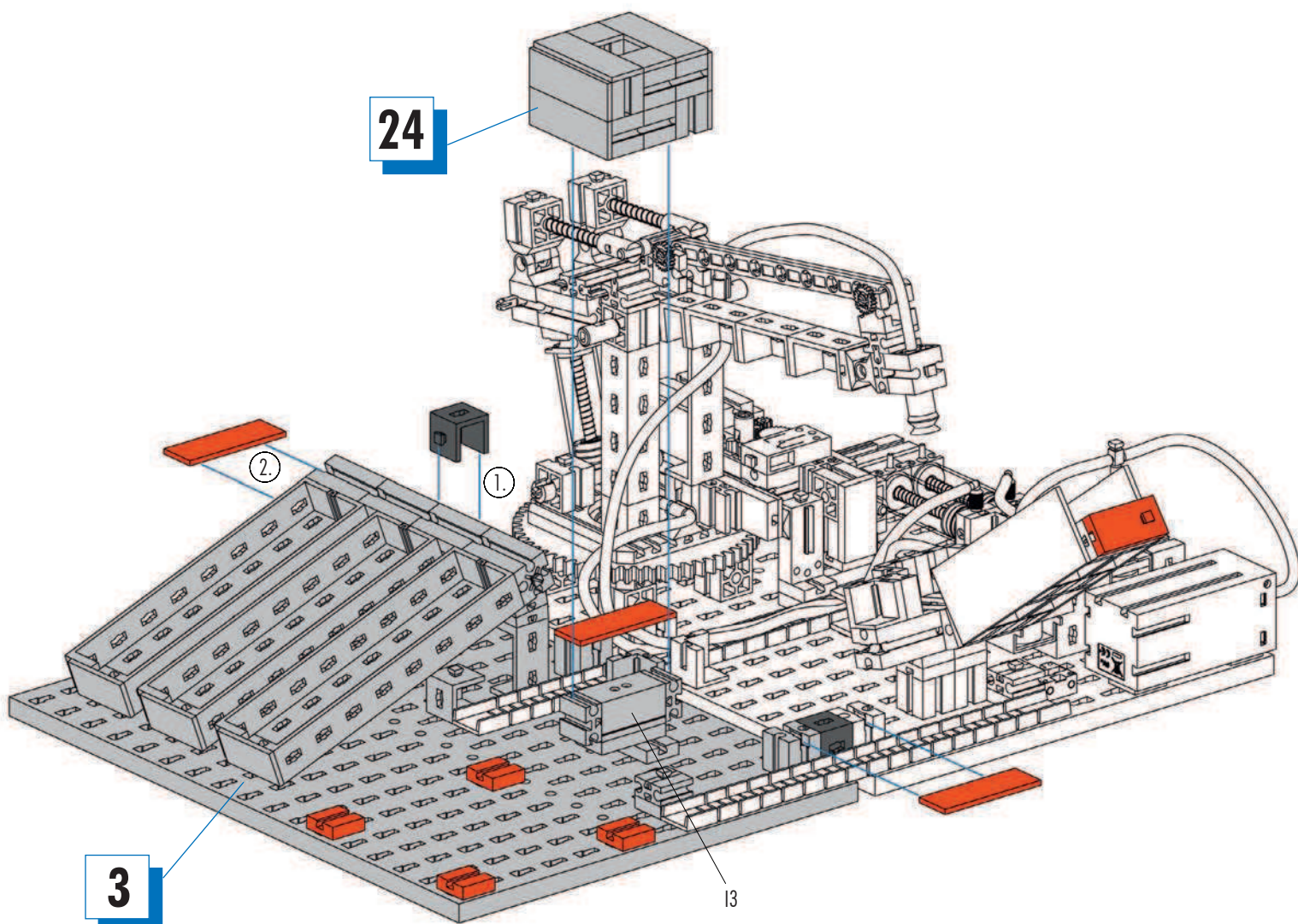
4 x

1 x

2 x

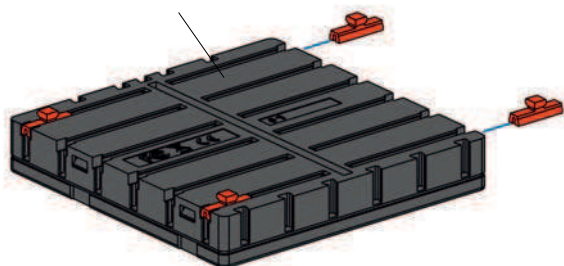
3 x

24

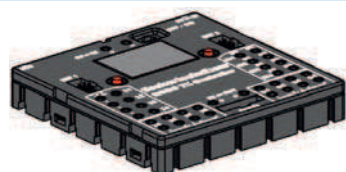


3

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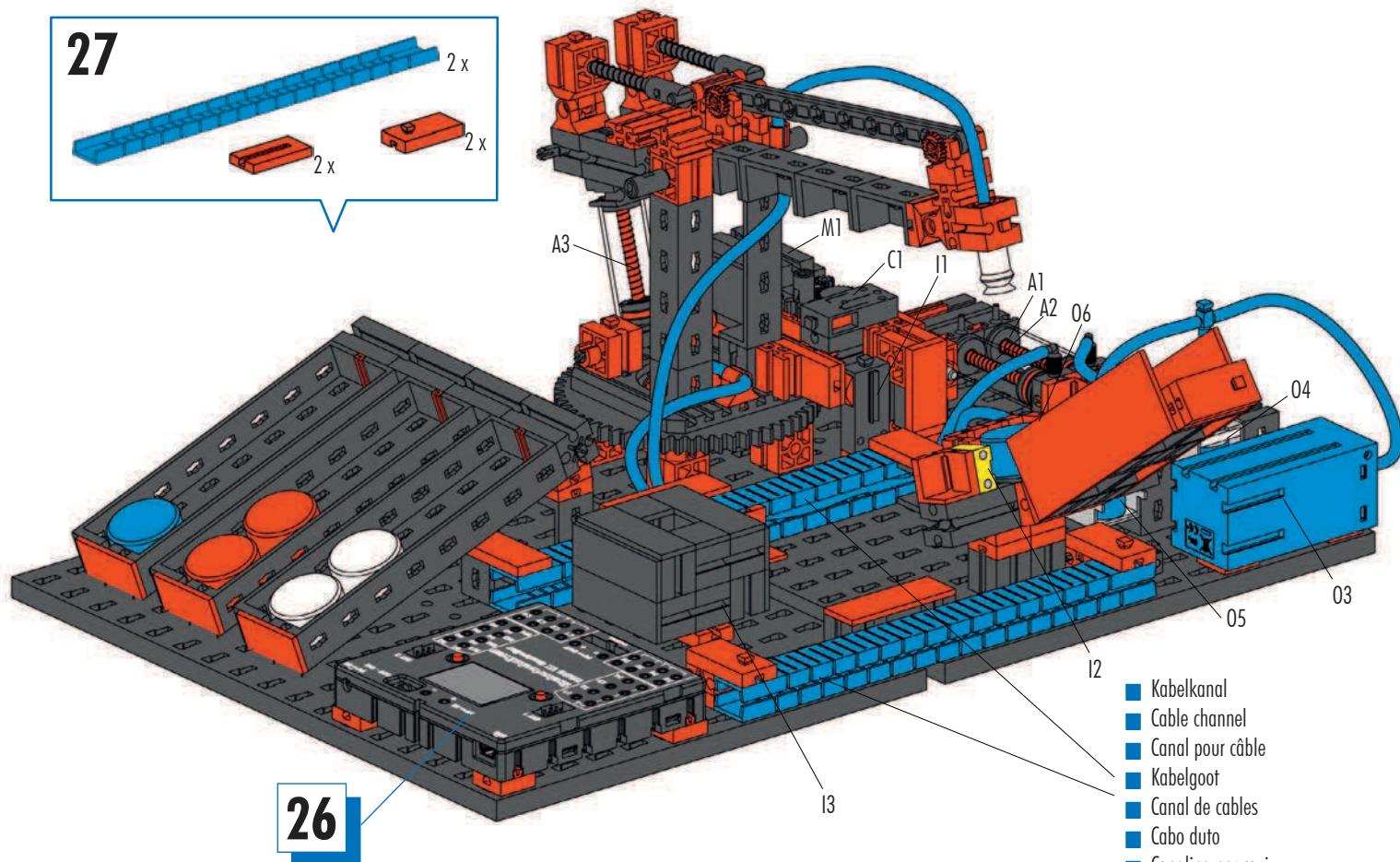
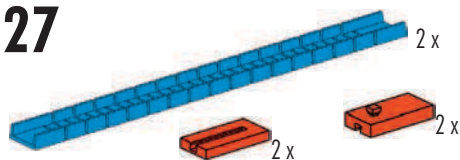
26



1 x

4 x

27



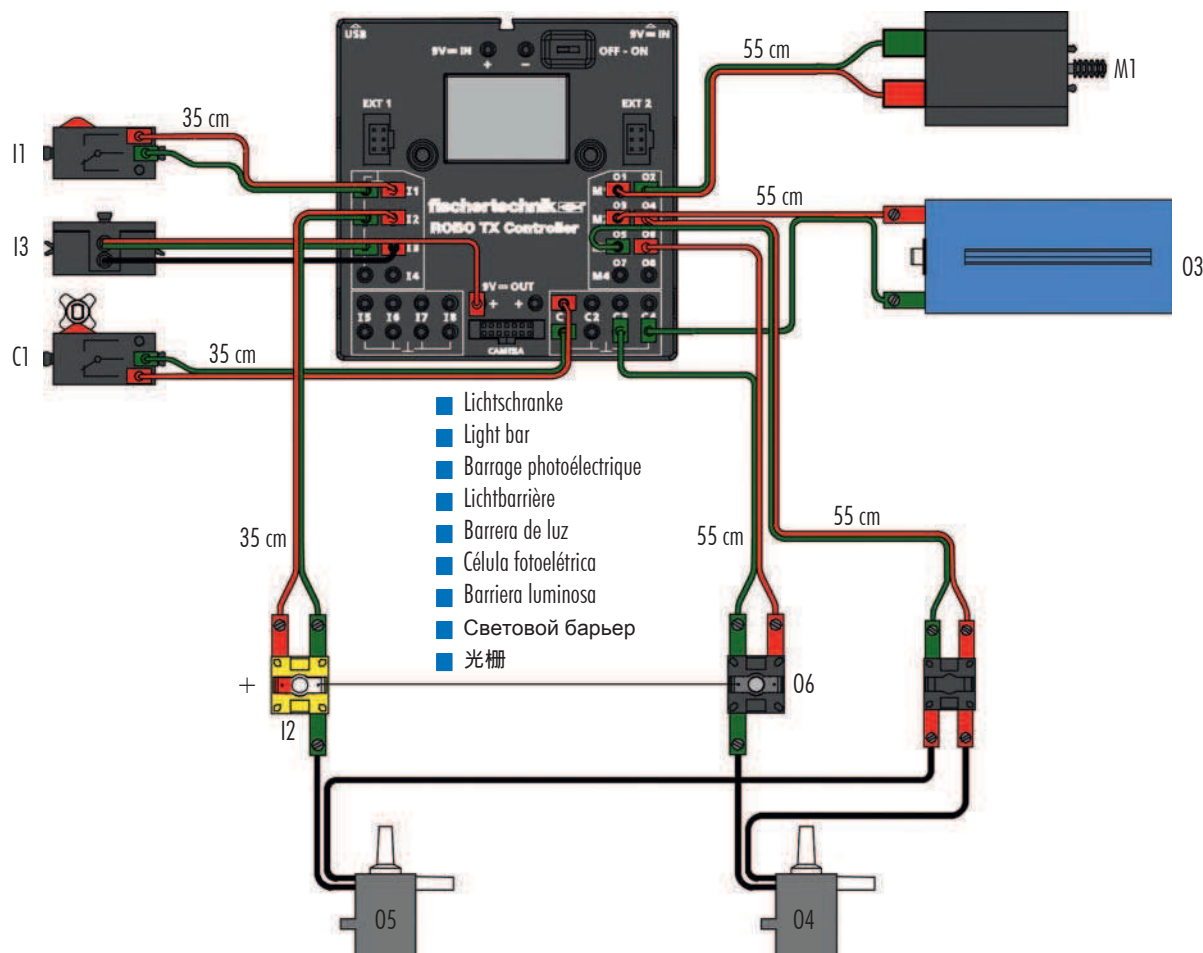
26

Schaltplan
Circuit diagram
Plan électrique

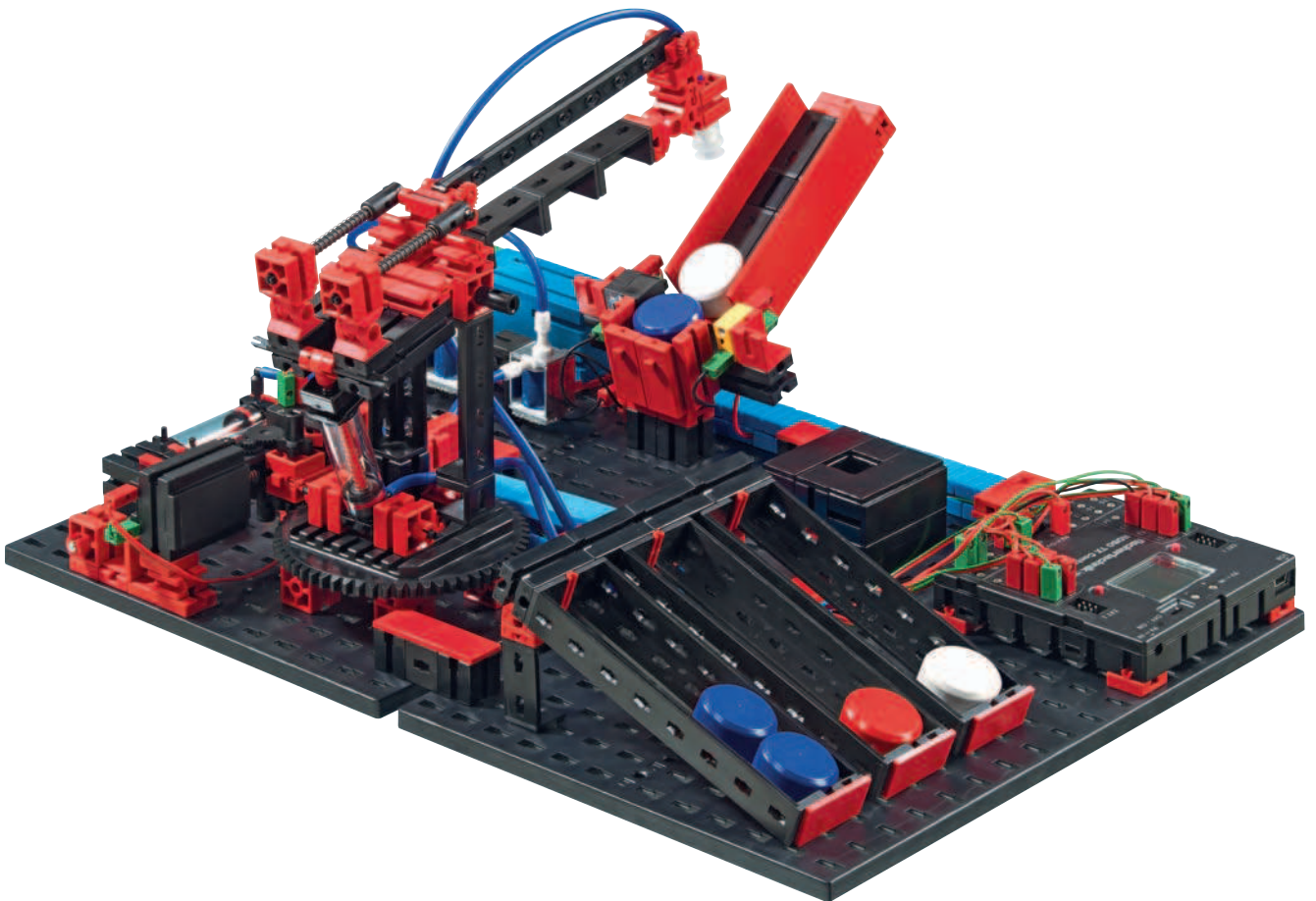
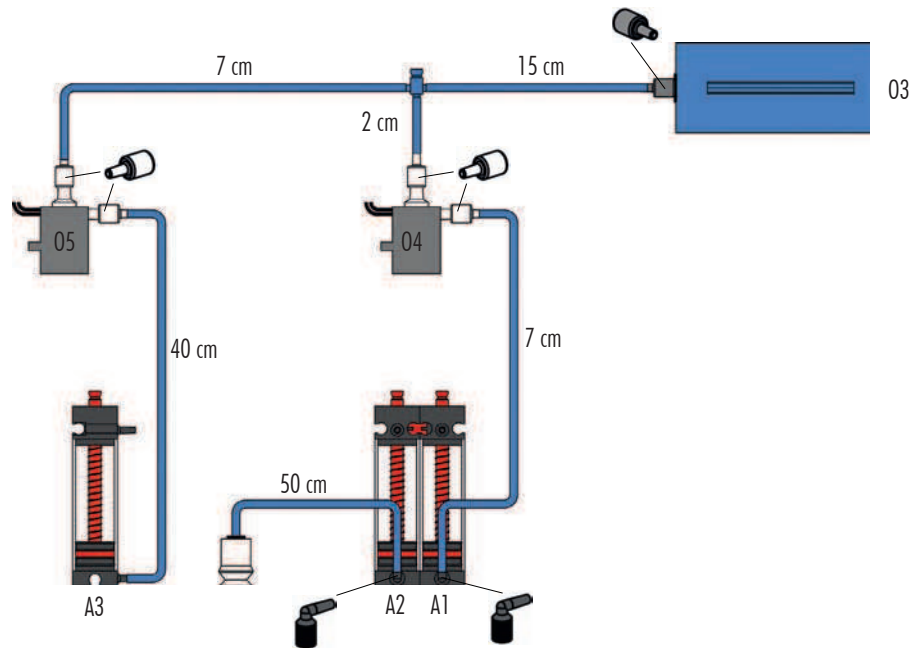
Schakelschema
Diagrama de circuitos
Plano elétrico de ligação

Schema elettrico
Схема подключения
电路图

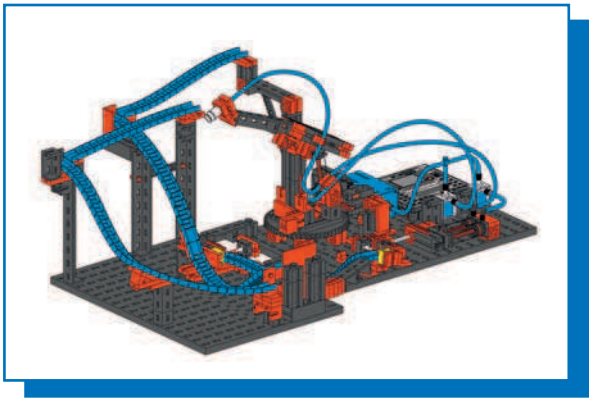
- Kabelkanal
- Cable channel
- Canal pour câble
- Kabelgoot
- Canal de cables
- Cabo duto
- Canalina per cavi
- кабельная траншея
- 电缆管道



- Lichtschränke
- Light bar
- Barrage photoélectrique
- Lichtbarriere
- Barrera de luz
- Célula fotoelétrica
- Barriera luminosa
- Световой барьер
- 光栅



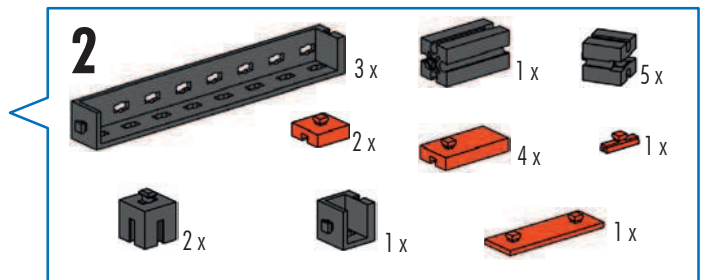
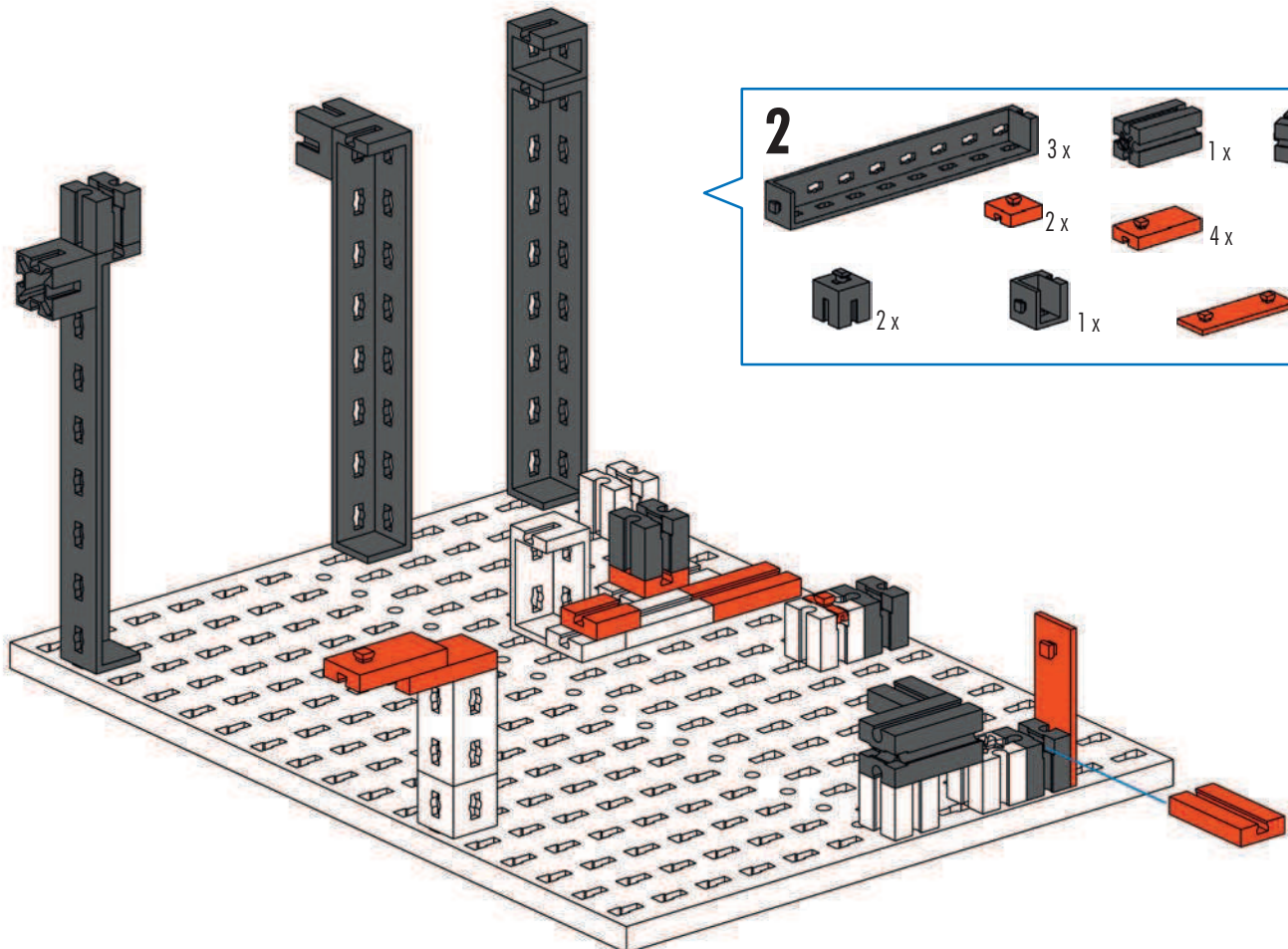
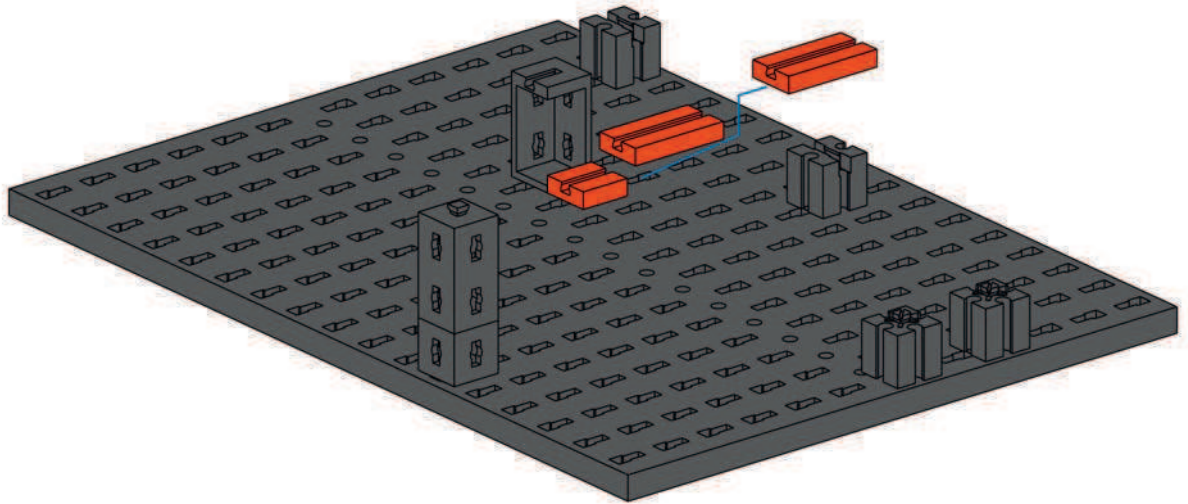
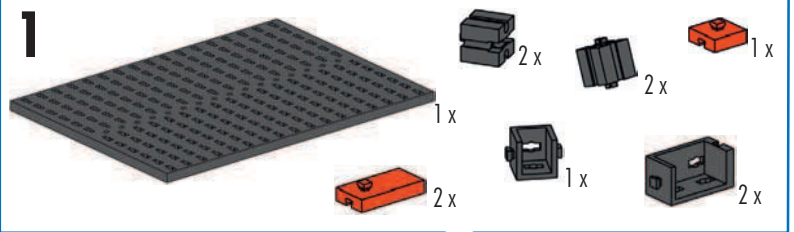
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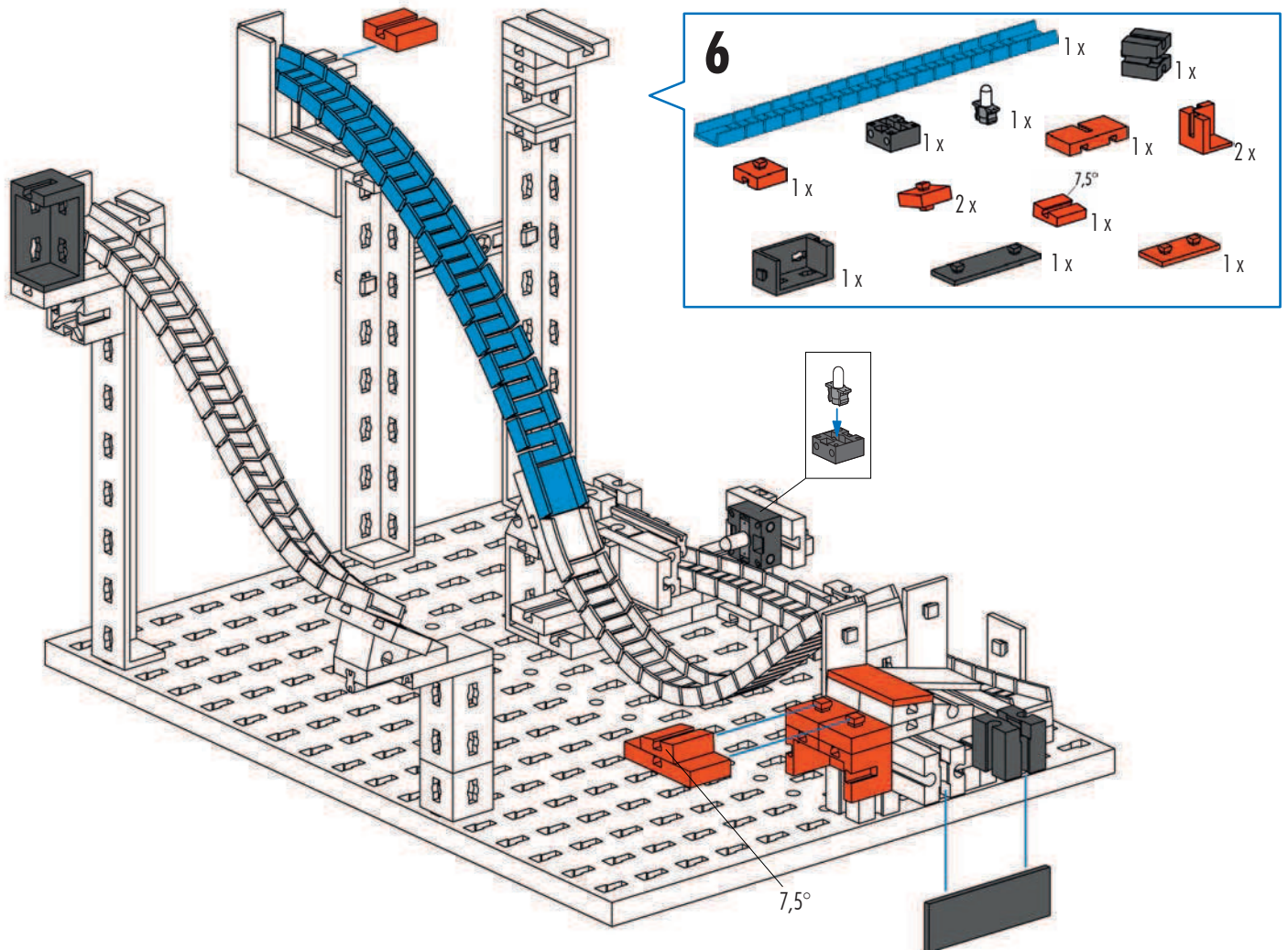
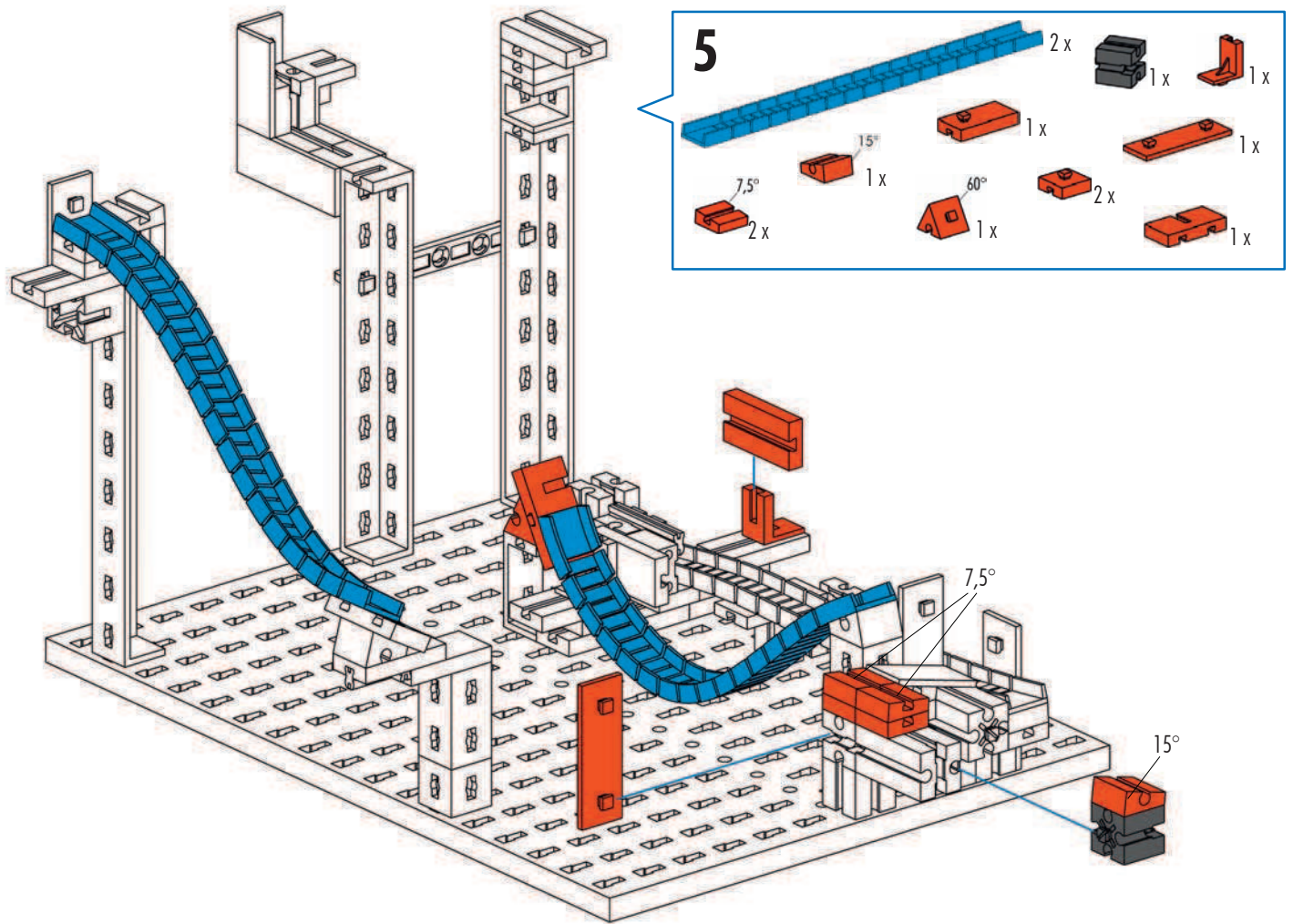


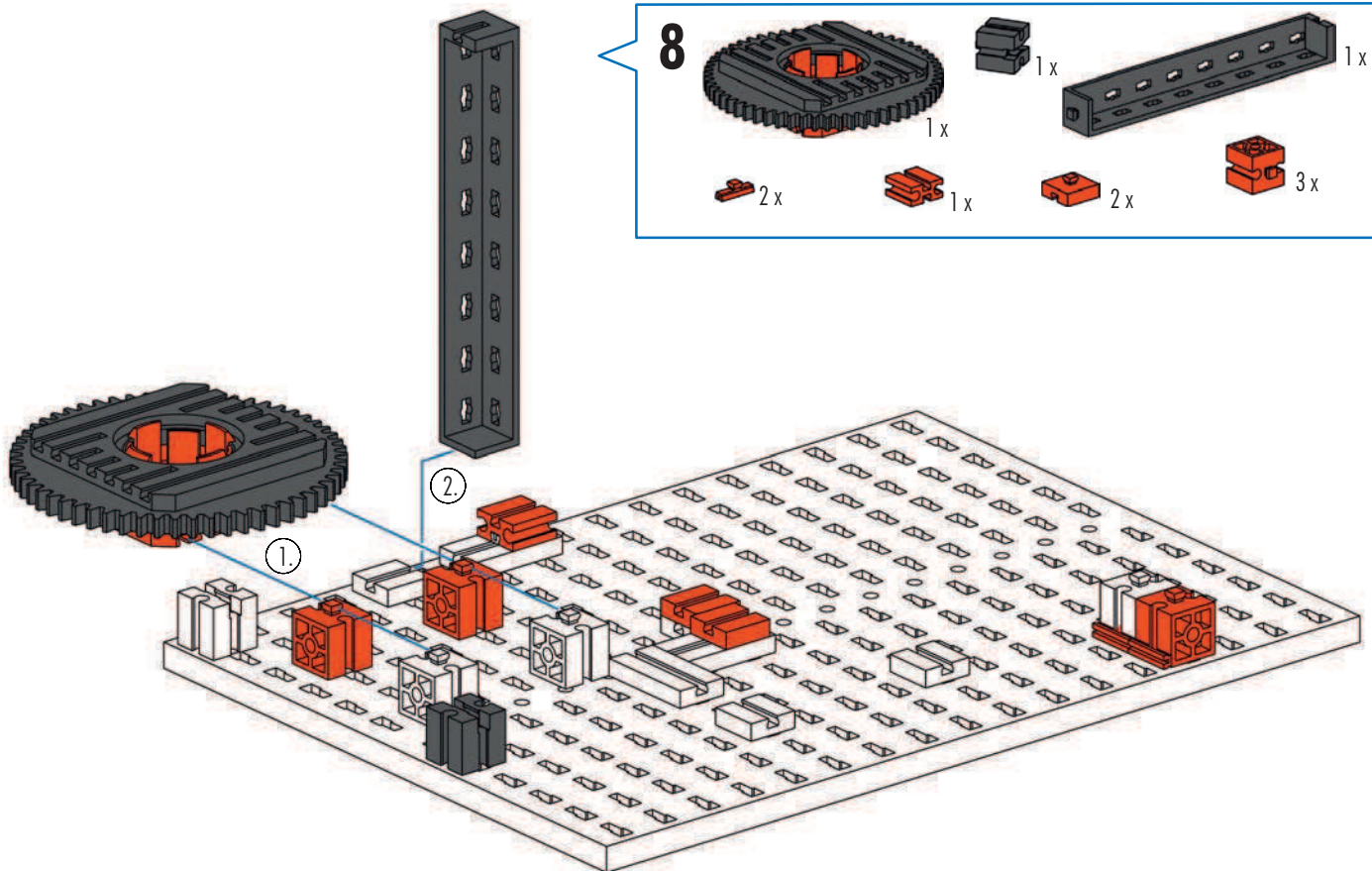
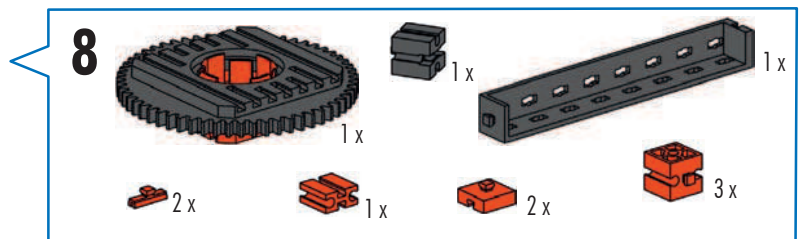
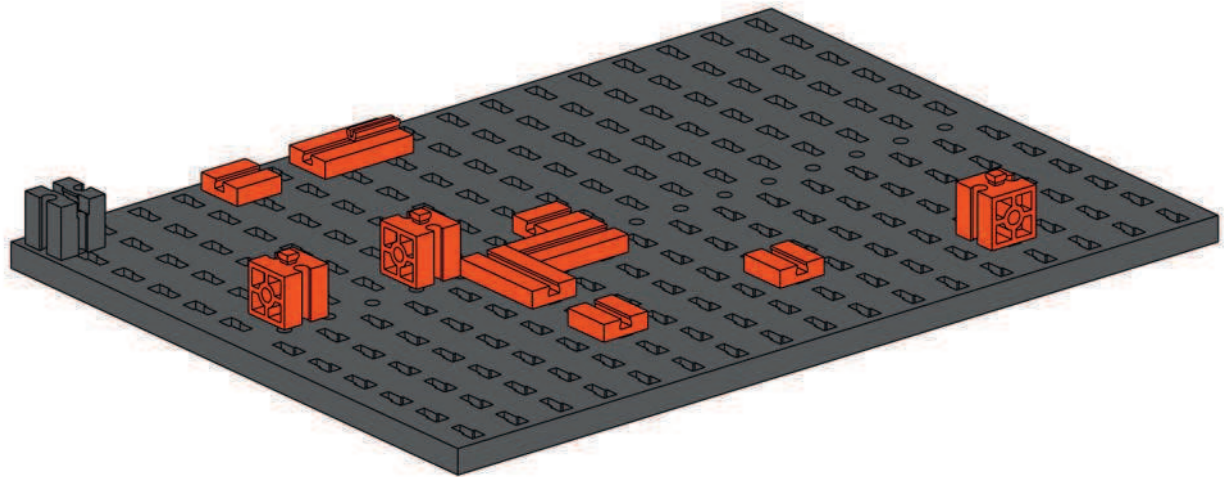
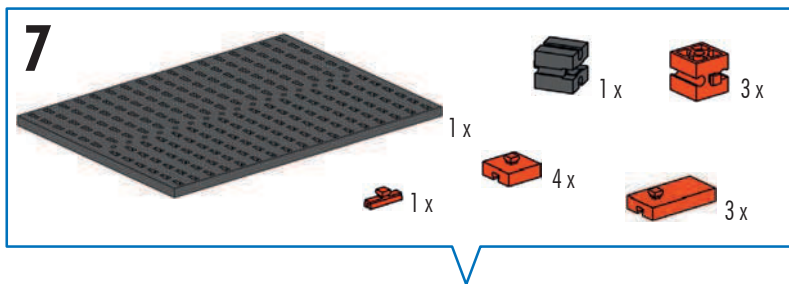
**Kugelparcours mit
Vakuumgreifer**
Ball obstacle course with
vacuum picker arm
Parcours à billes avec
grappin pneumatique

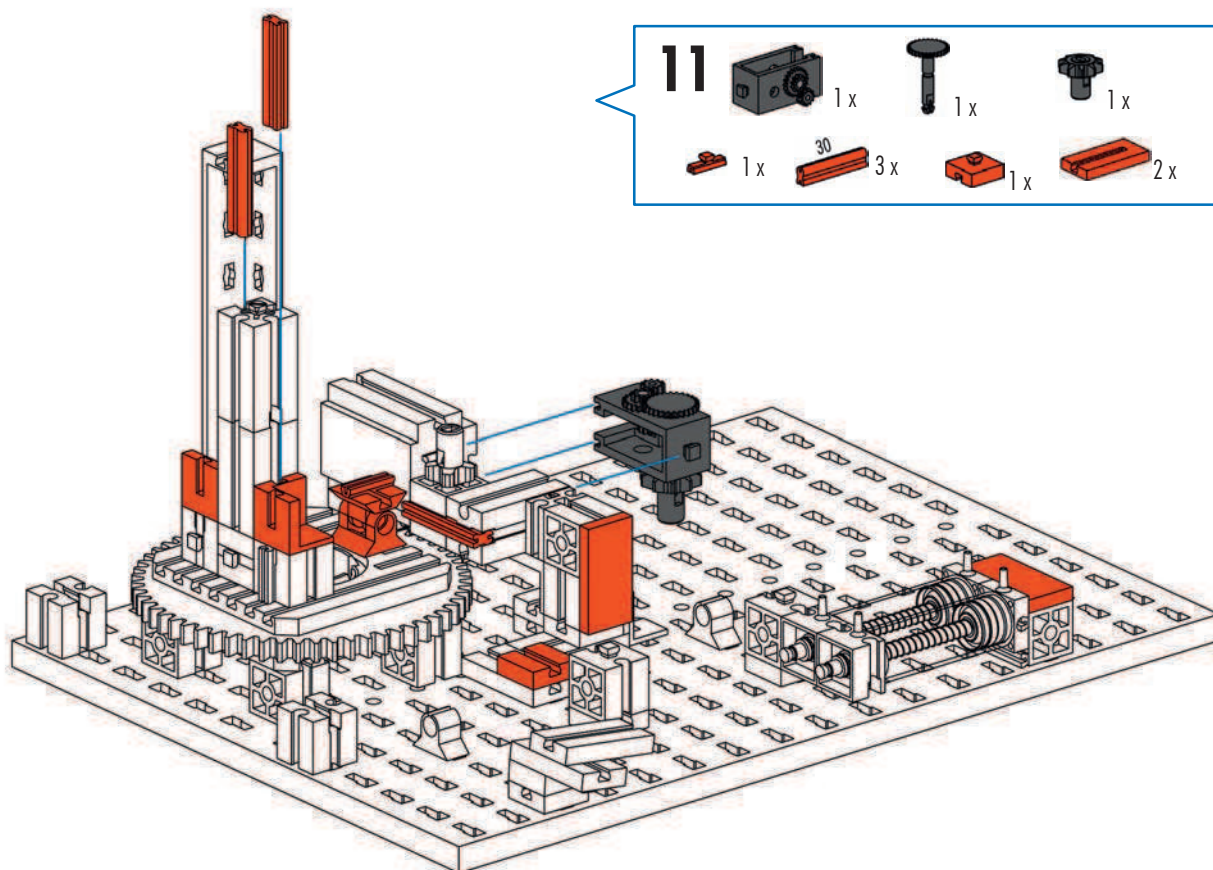
**Kogelparcour met
vacuümgreijer**
Pista de recorrido de bola
con manipulador de vacío
Circuito de esferas com
agarrador a vácuo

**Percorso sfere con pinza
a ventosa**
Трасса для шарика с
вакуумным захватом
配分选机器人的滚珠弯道









11



1x



1x



1x



2x



1x



3x



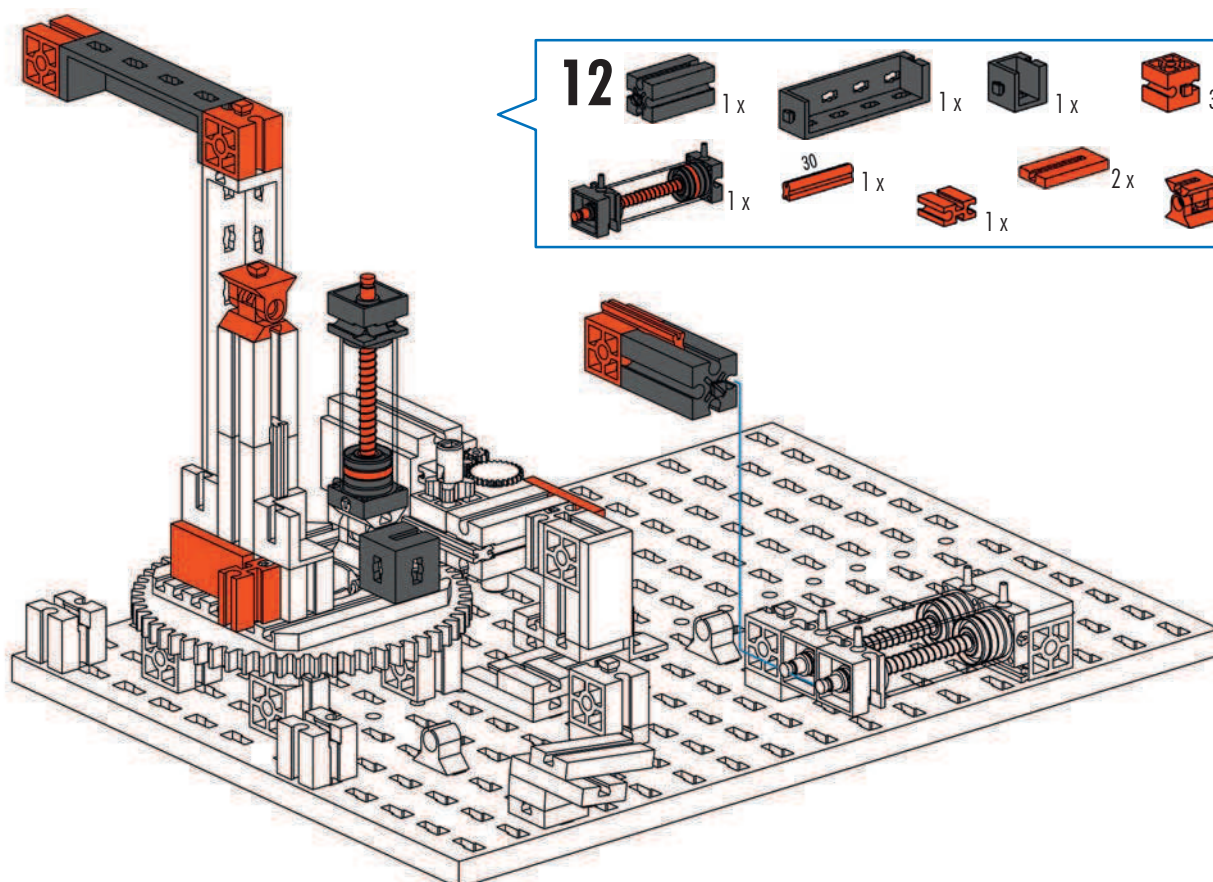
1x



2x



1x



12



1x



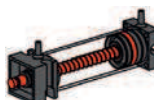
1x



1x



3x



1x



1x



1x



2x

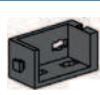


1x

13



1x



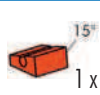
1x



1x



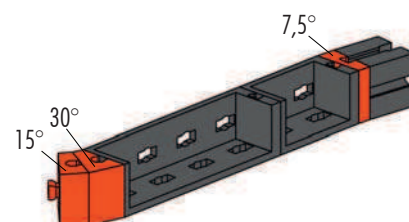
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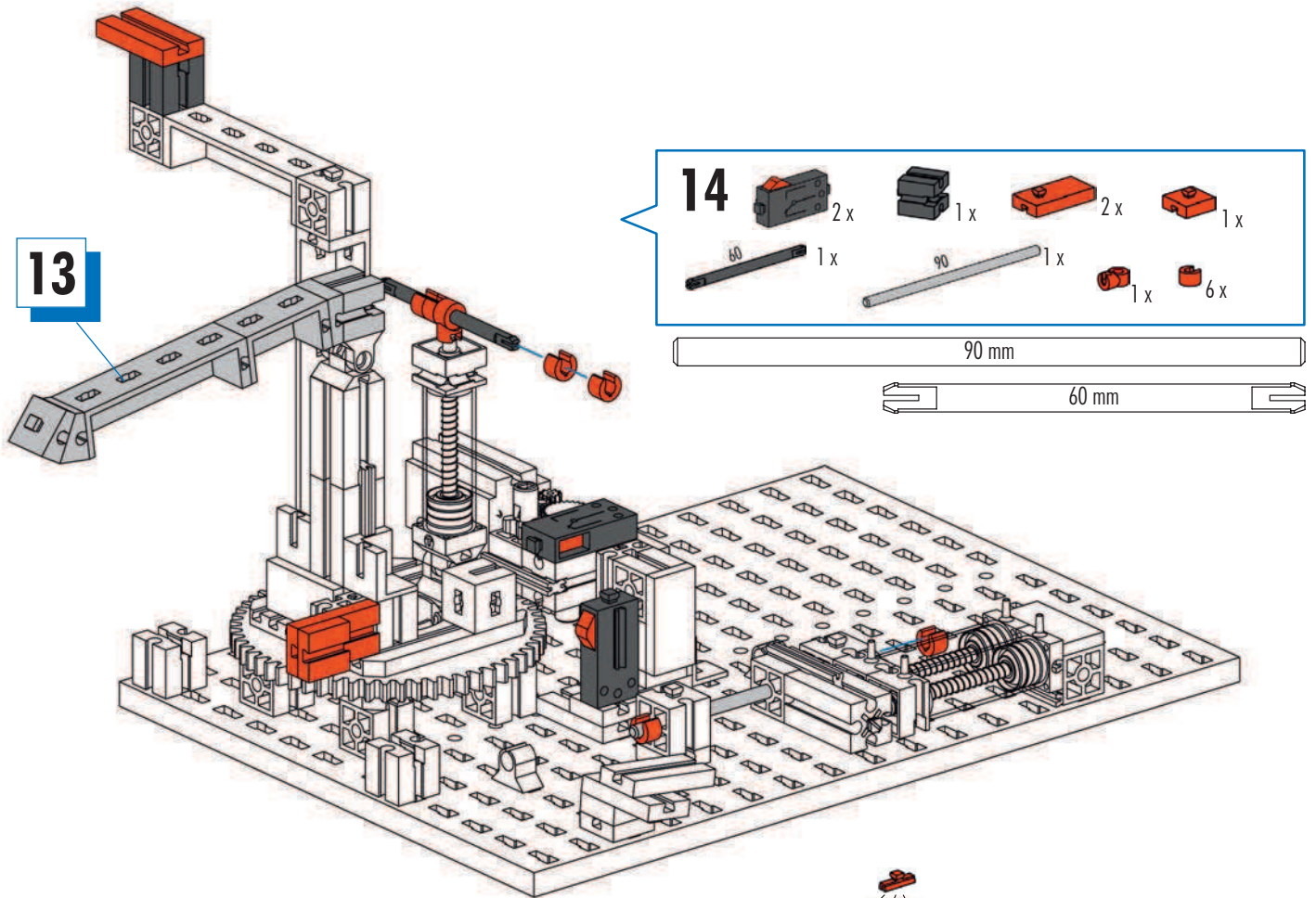
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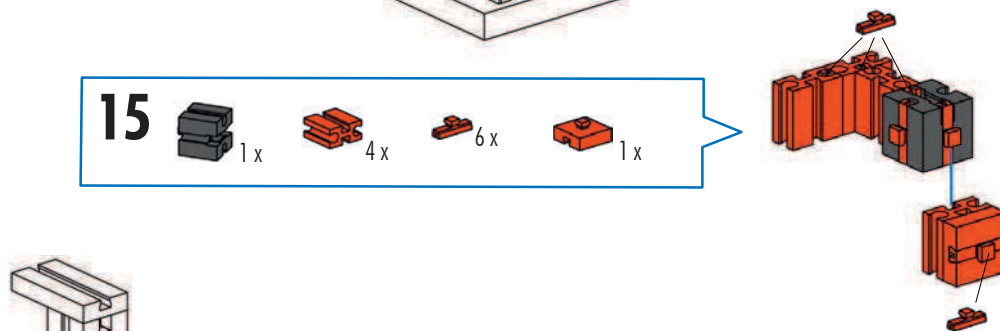
1x



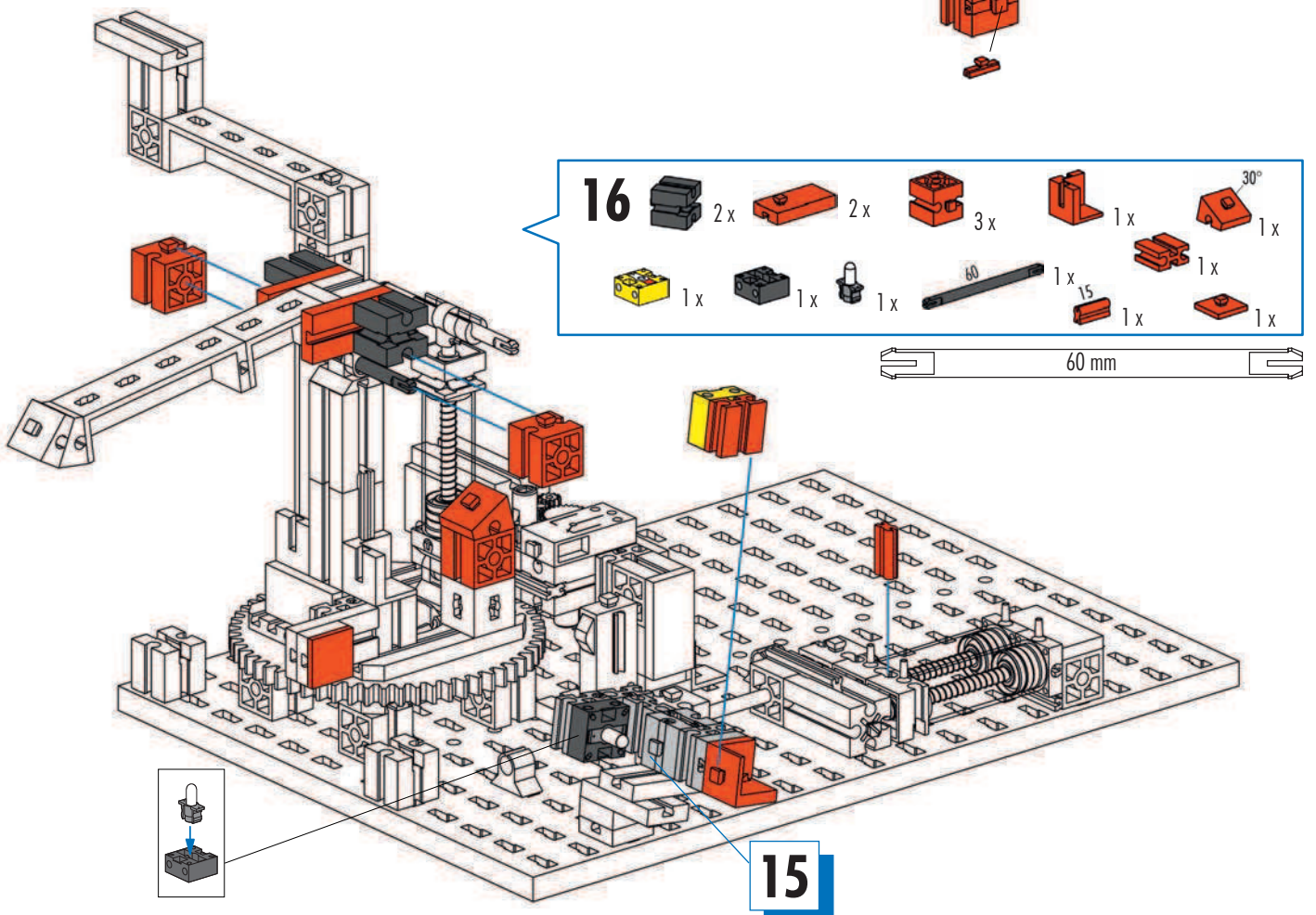
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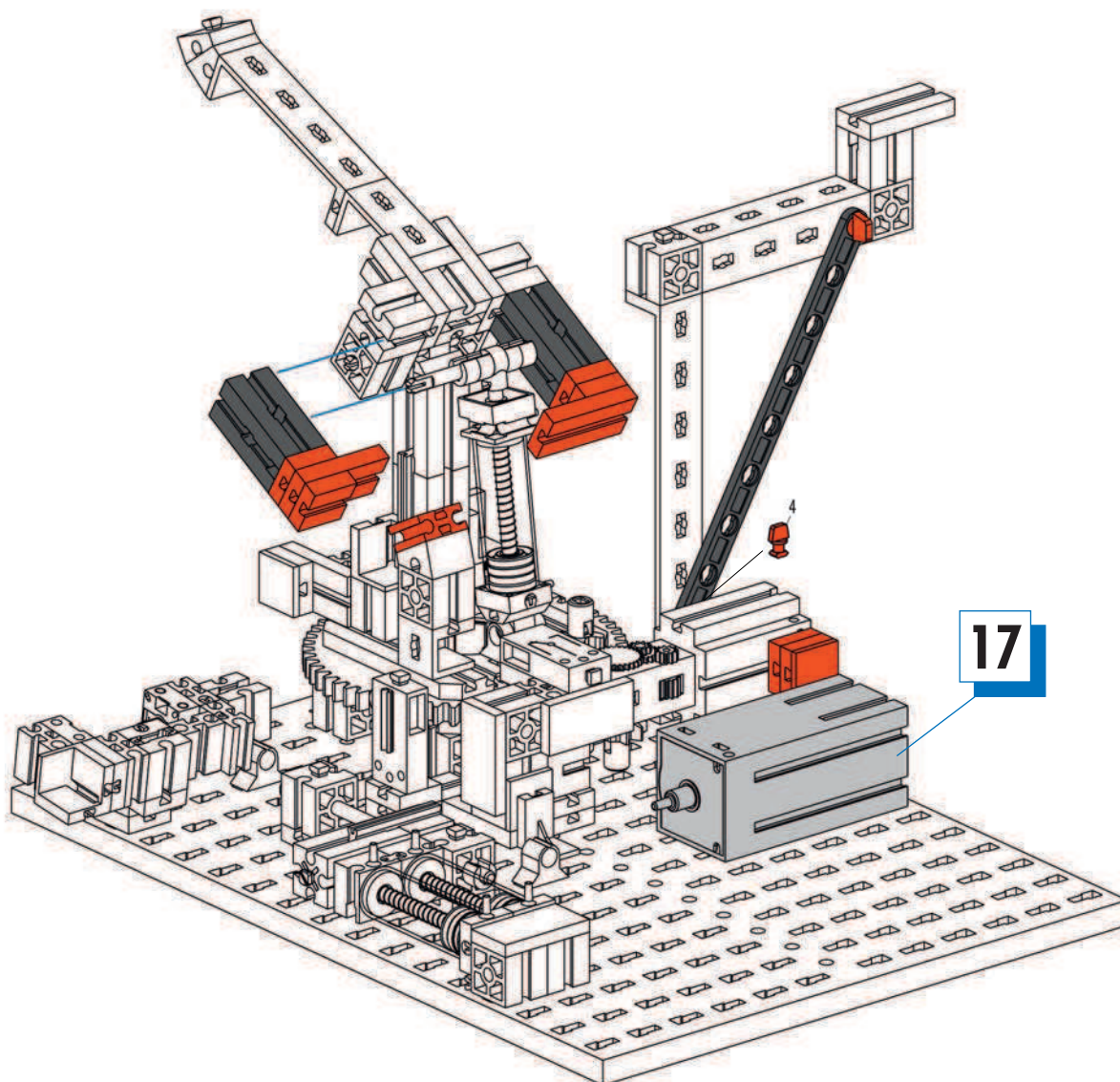
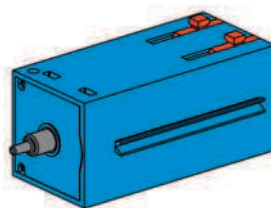


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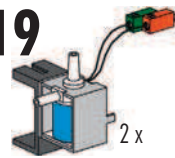


16





19



2 x

4 x



1 x



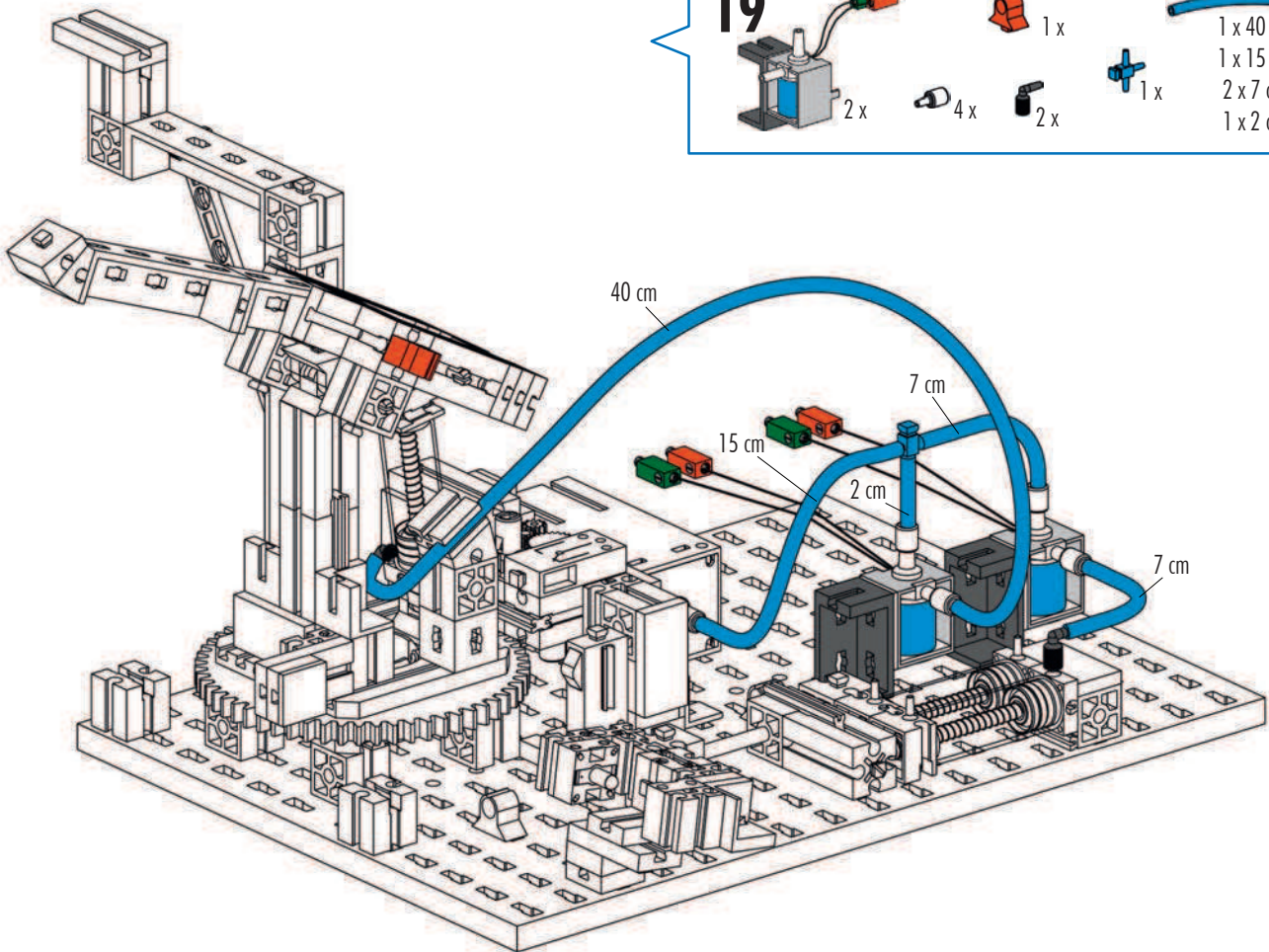
2 x



1 x



1 x 40 cm
1 x 15 cm
2 x 7 cm
1 x 2 cm



40 cm

7 cm

15 cm

2 cm

7 cm

20



2 x



2 x



1 x



2 x

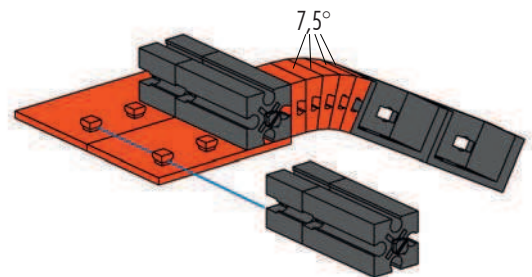


2 x

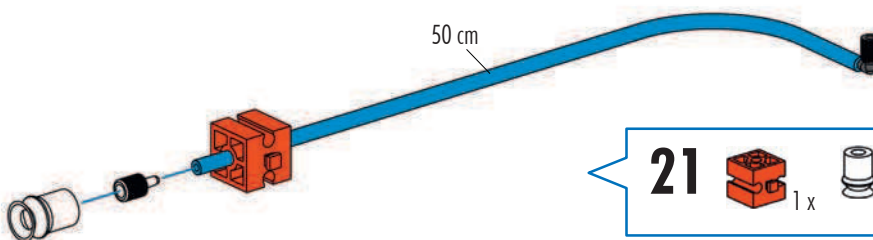


4 x

7.5°



7.5°



50 cm

21



1 x



1 x



1 x

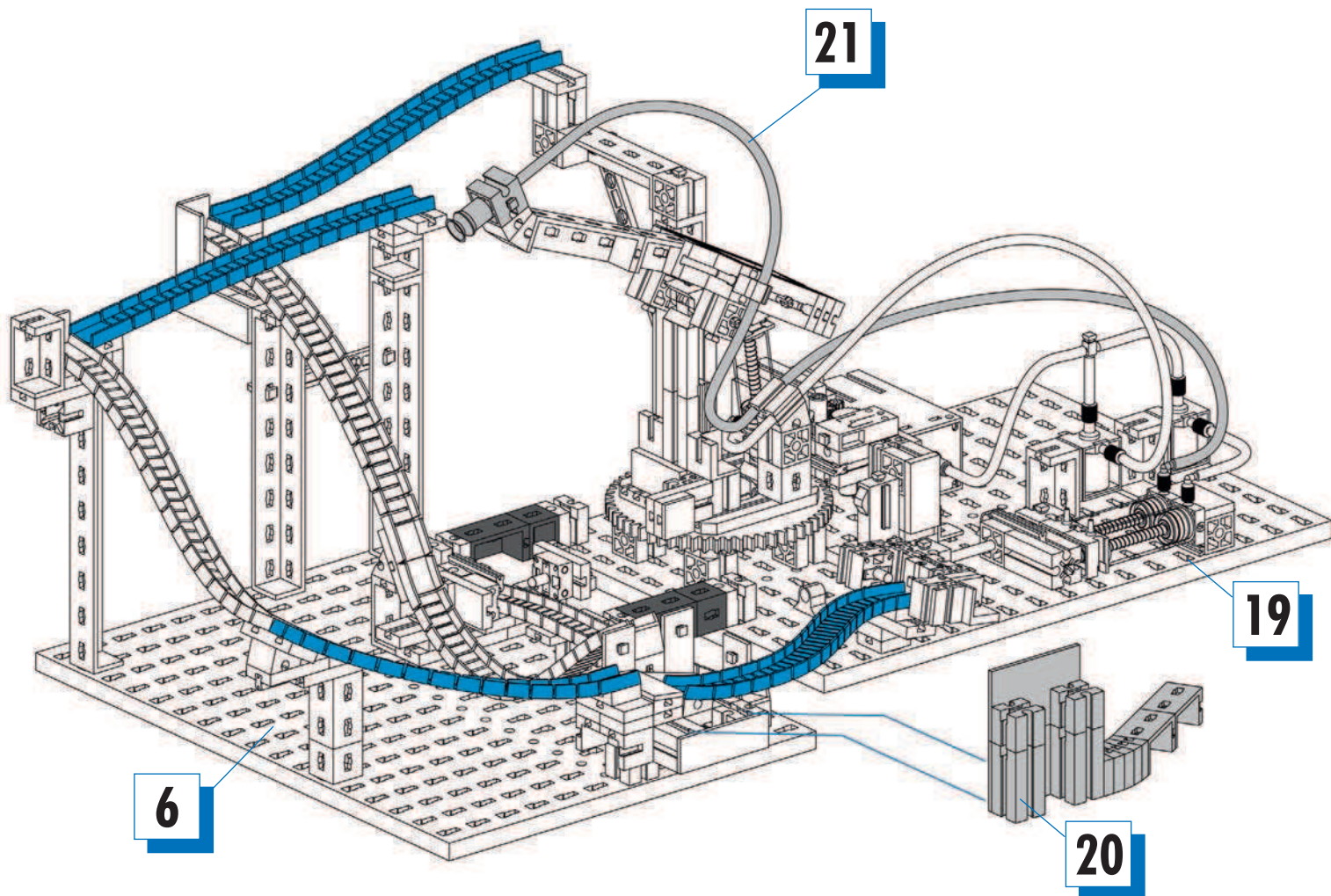
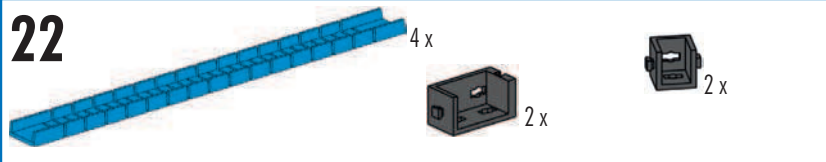


1 x

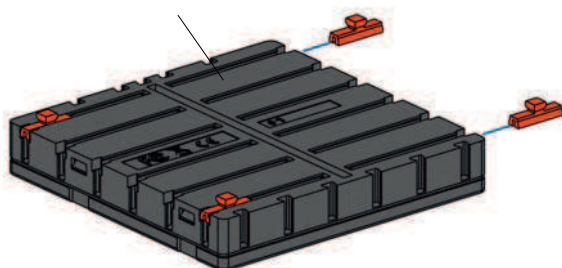


1 x 50 cm

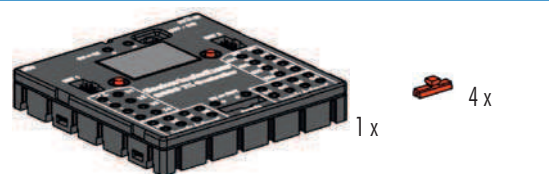
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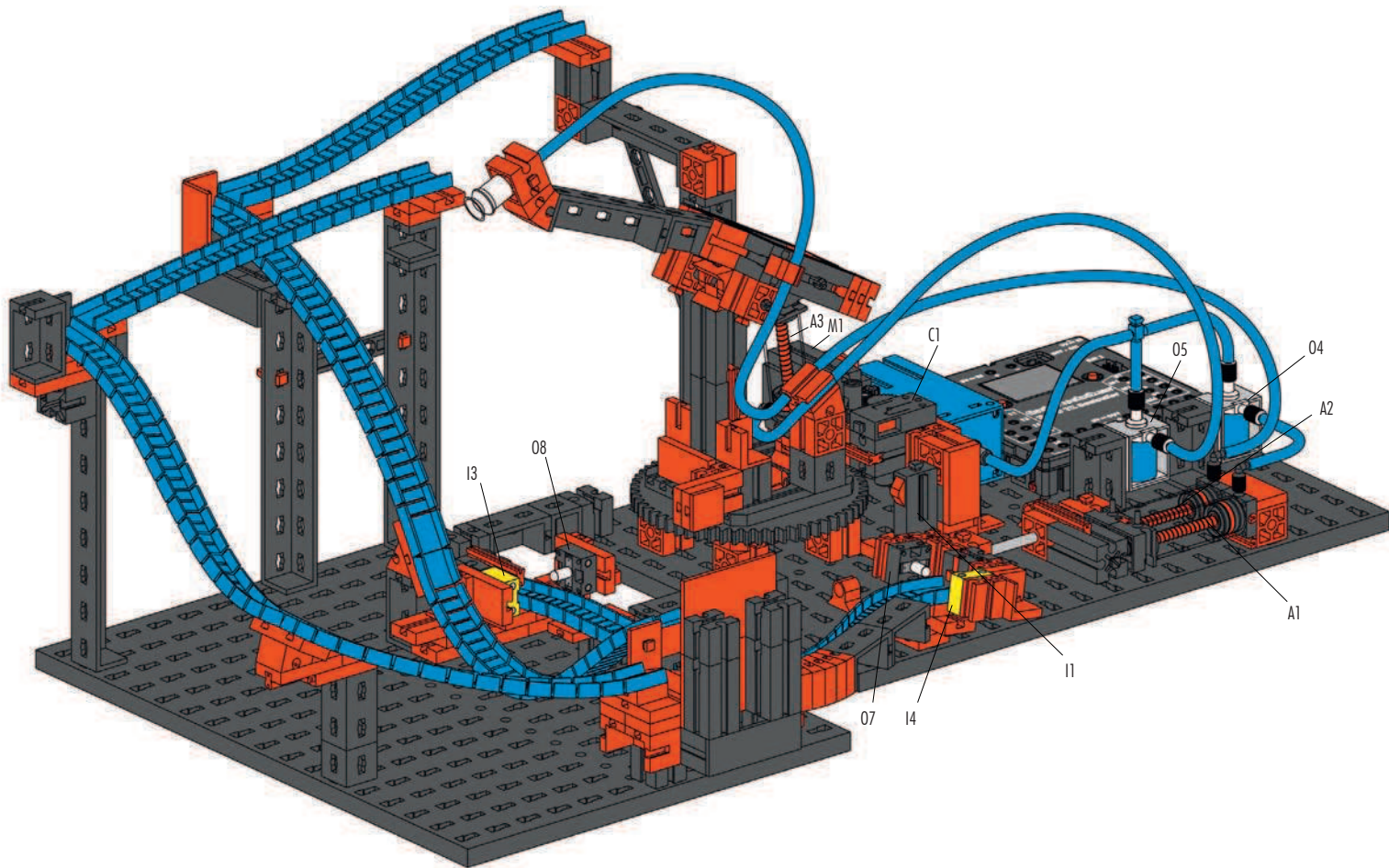


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18

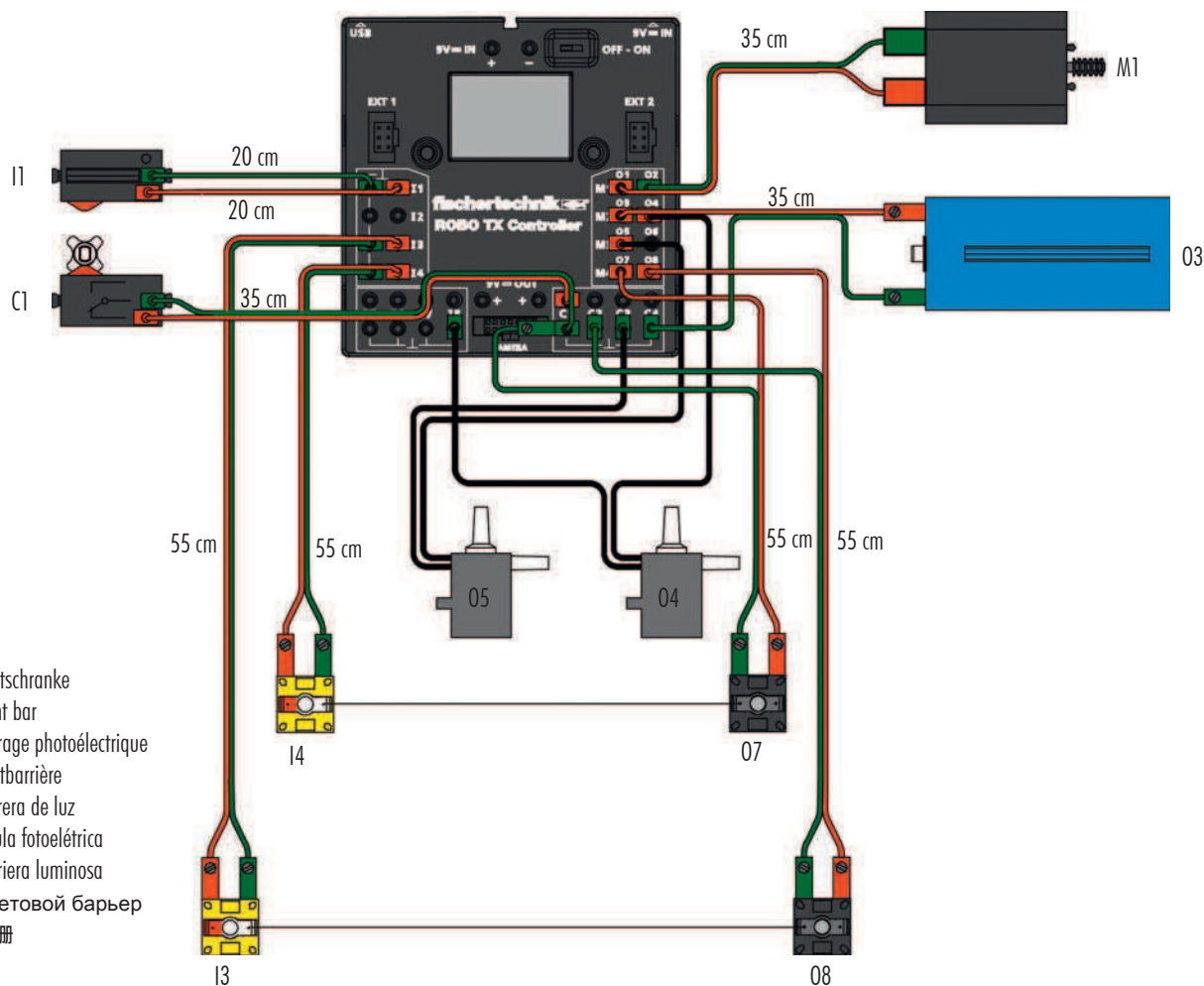




Schaltplan
Circuit diagram
Plan électrique

Schakelschema
Diagrama de circuitos
Plano elétrico de ligação

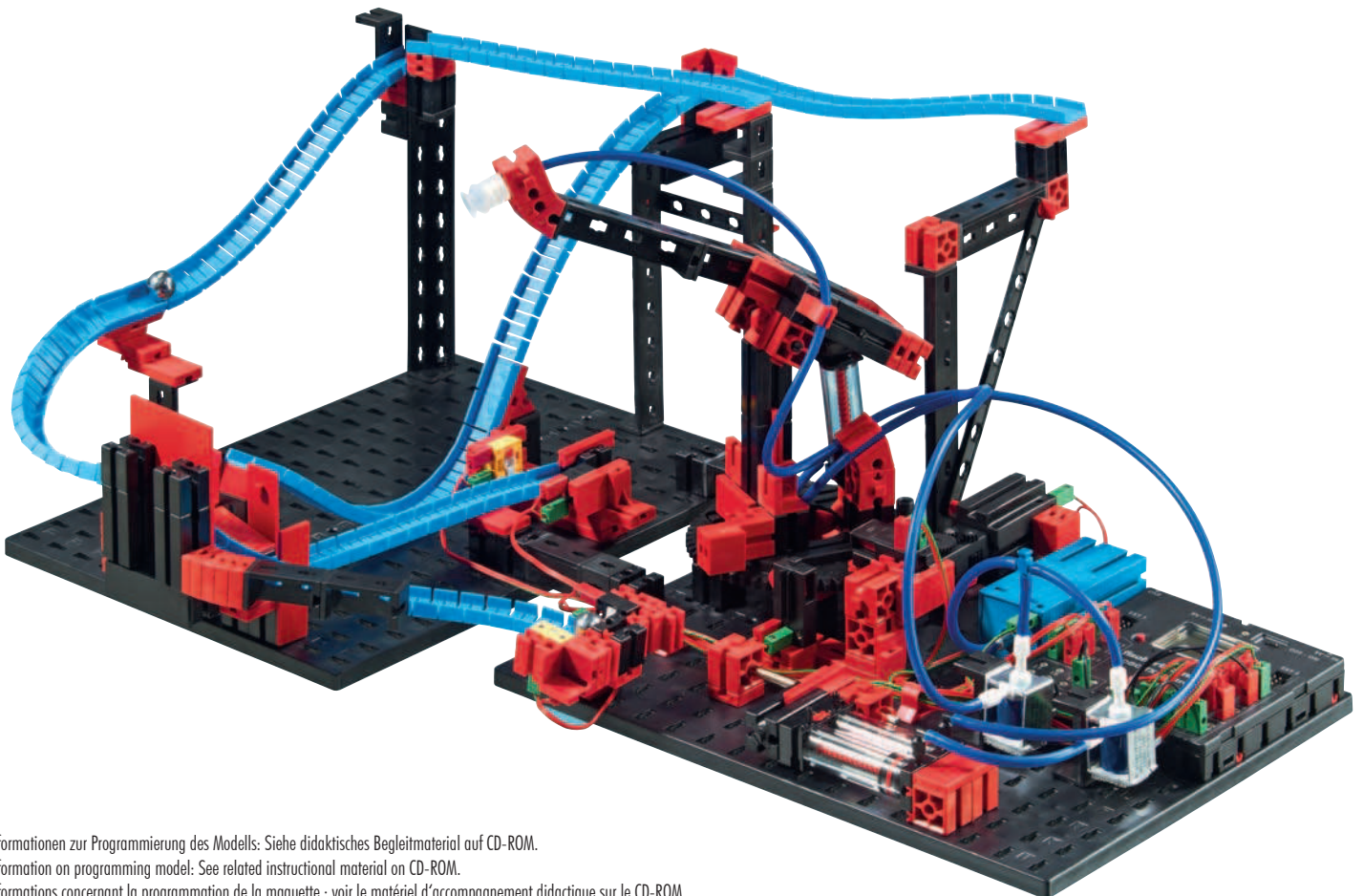
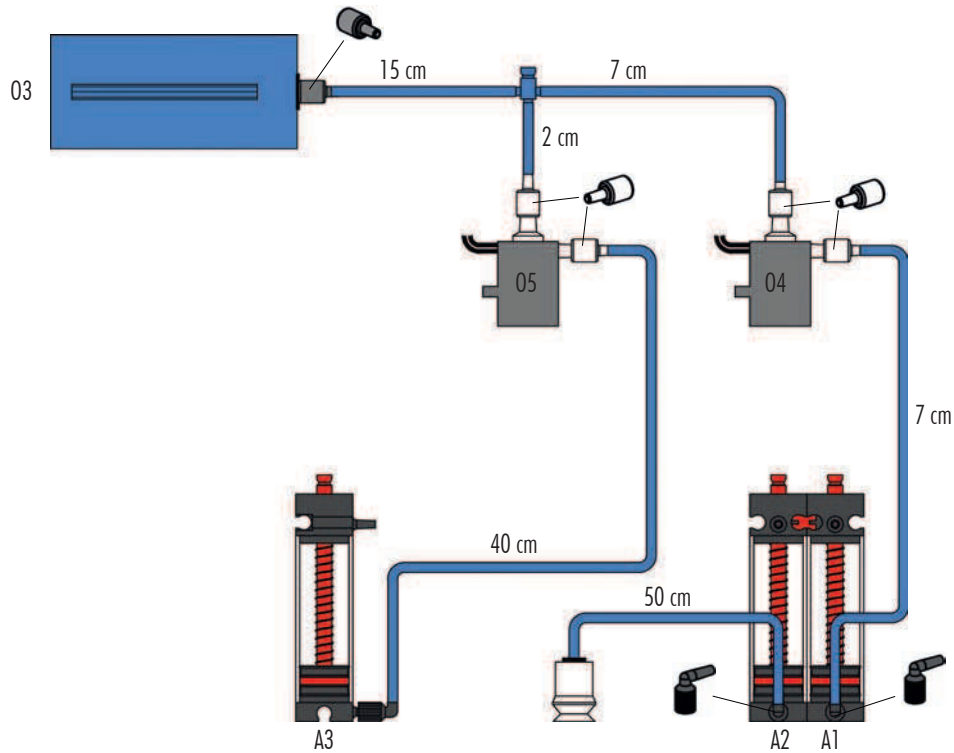
Schema elettrico
Схема подключения
电路图



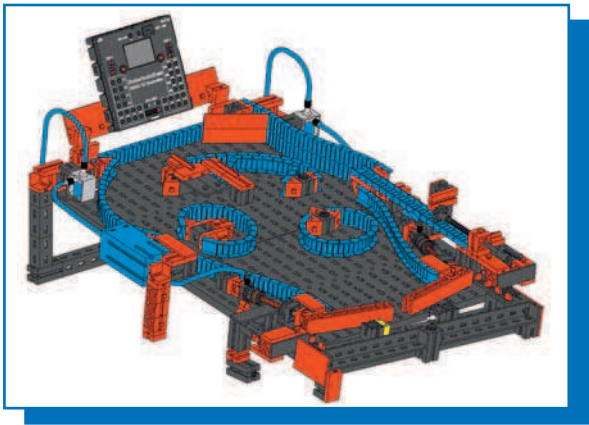
Schlauchanschlussplan
Air line layout plan
Plan de raccordement de conduits

Aansluitschema van slang
Racor de empalme
Plano de conexão de mangueira

Schema di allacciamento tubi
Схема подключения шлангов
软管连接图



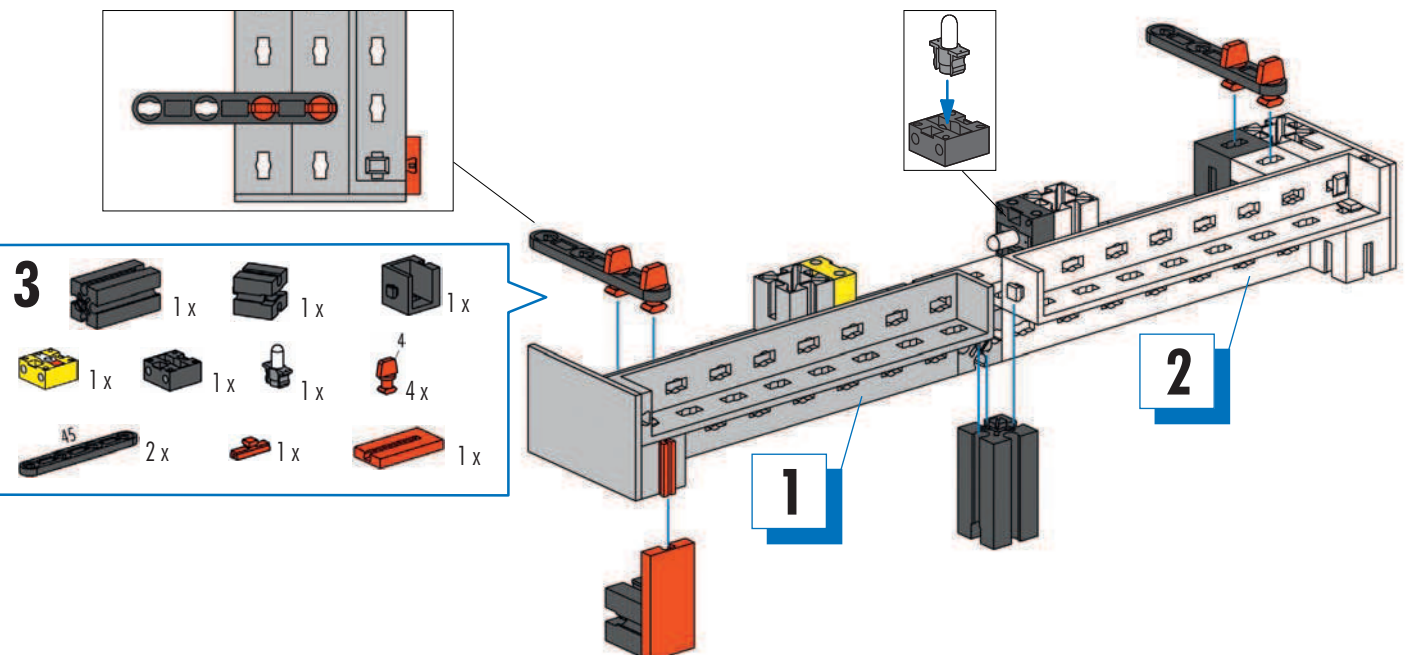
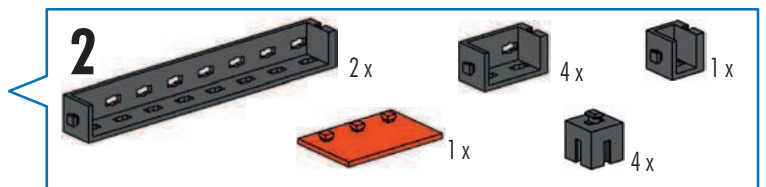
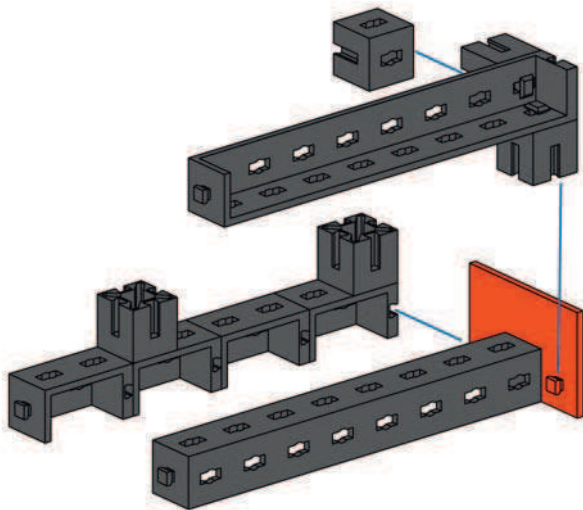
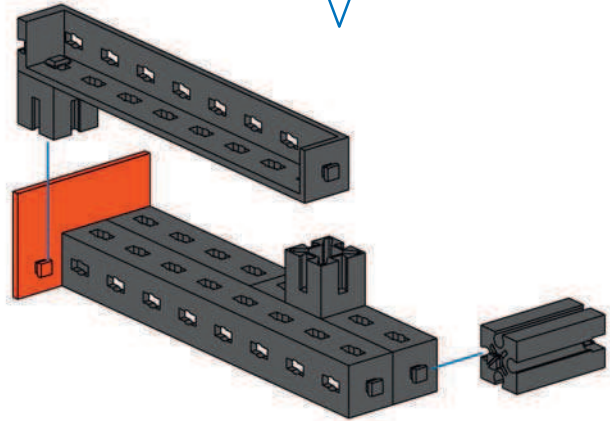
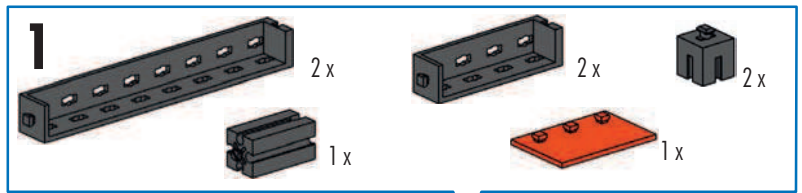
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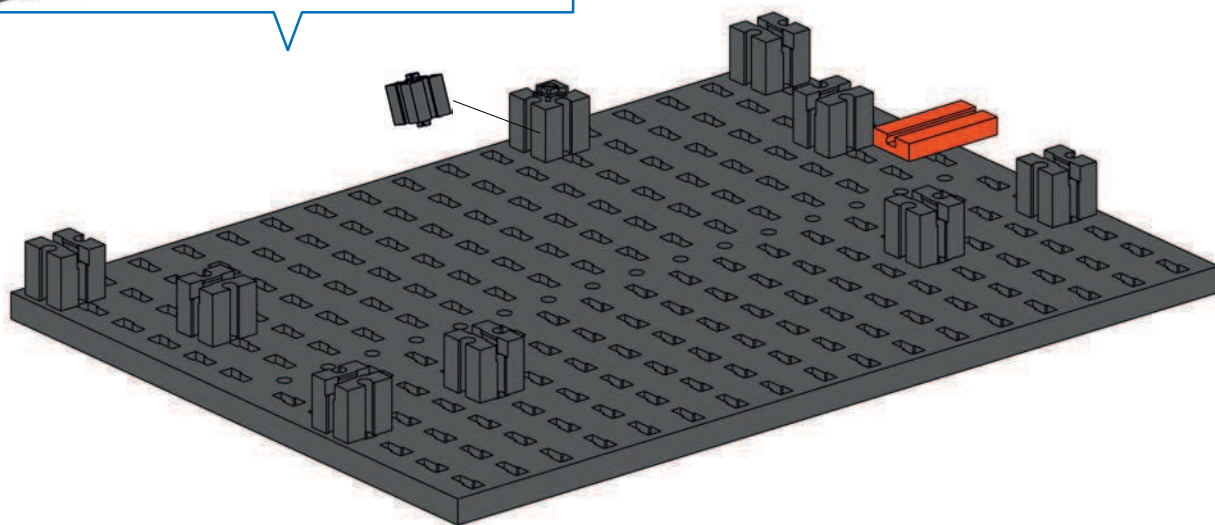
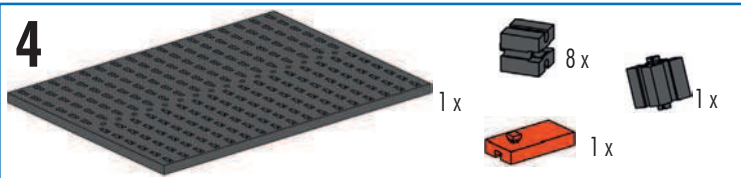
Flipper Pinball machine Flipper

Flipper Pinball Flipper

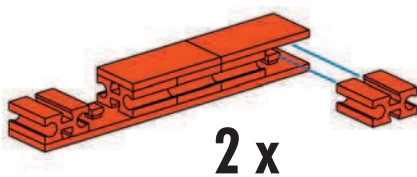
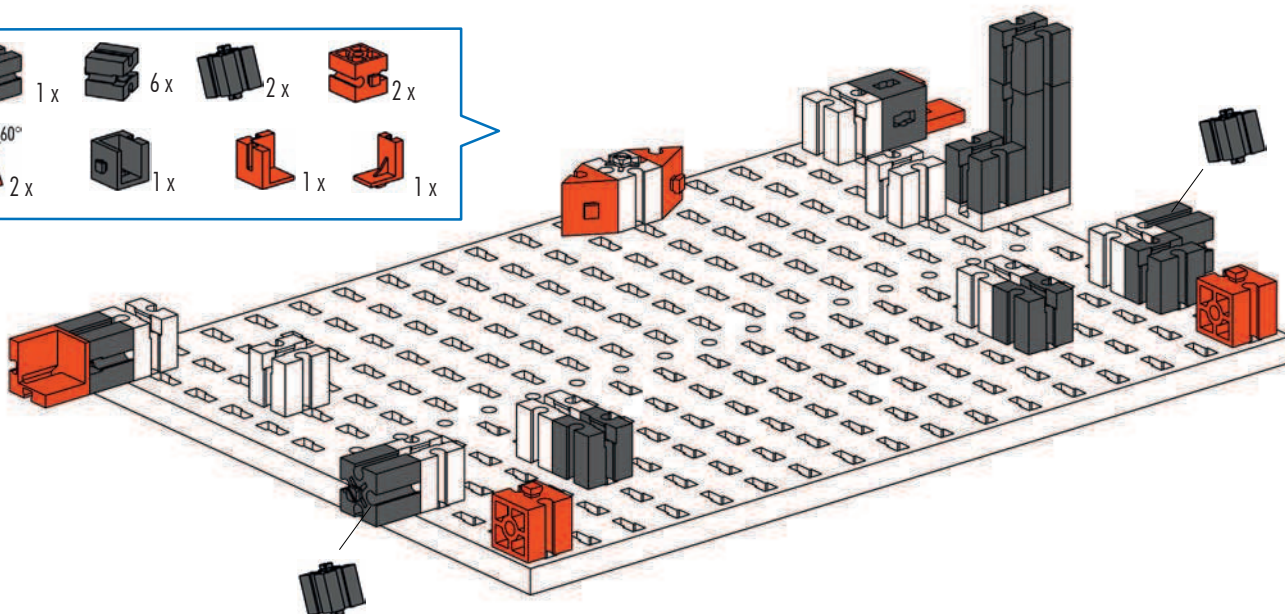
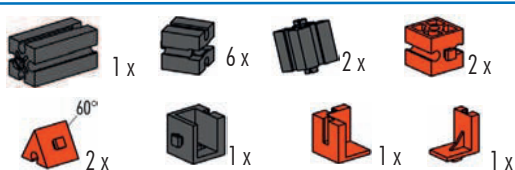
Flipper пинбол-машина 弹球机



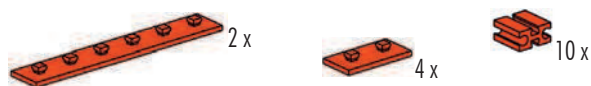
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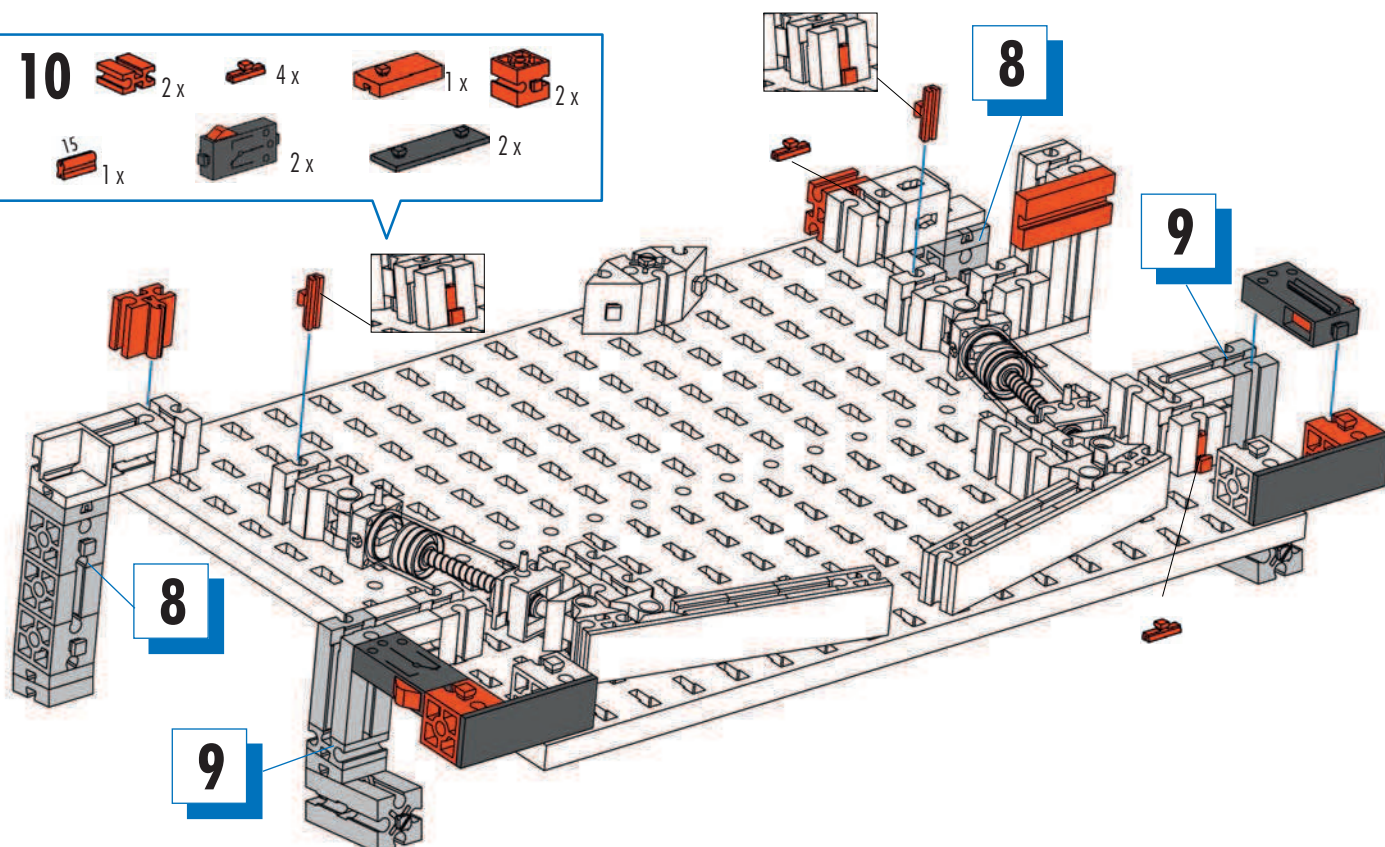
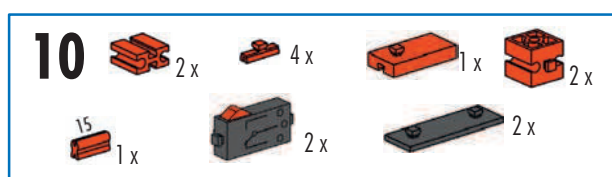
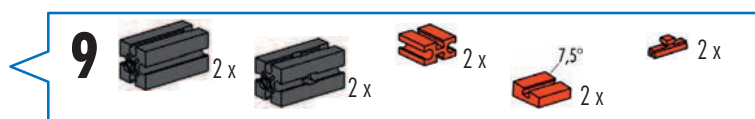
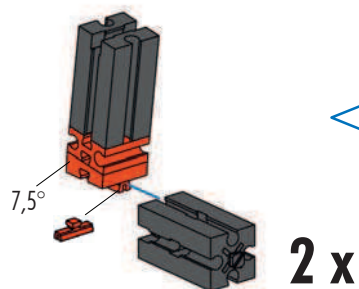
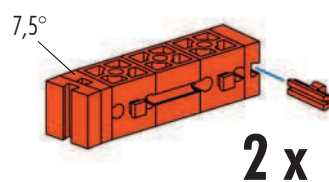
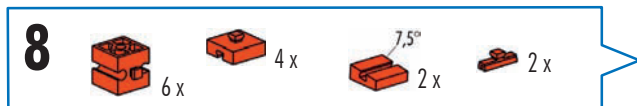
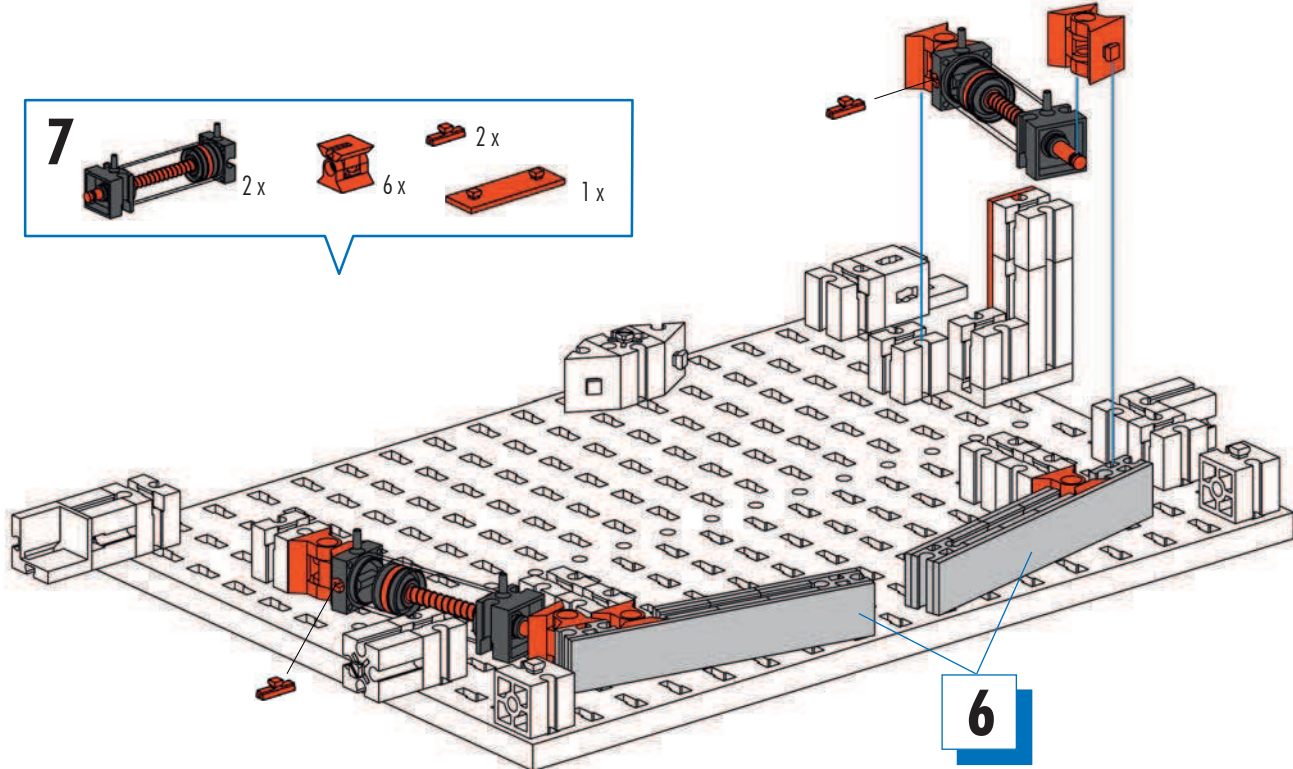
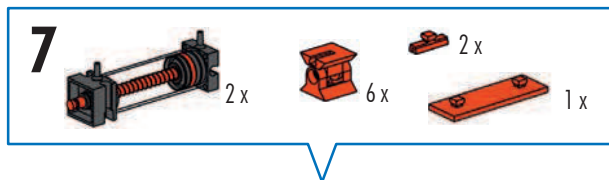


5



6





11



3 x



3 x



2 x



1 x

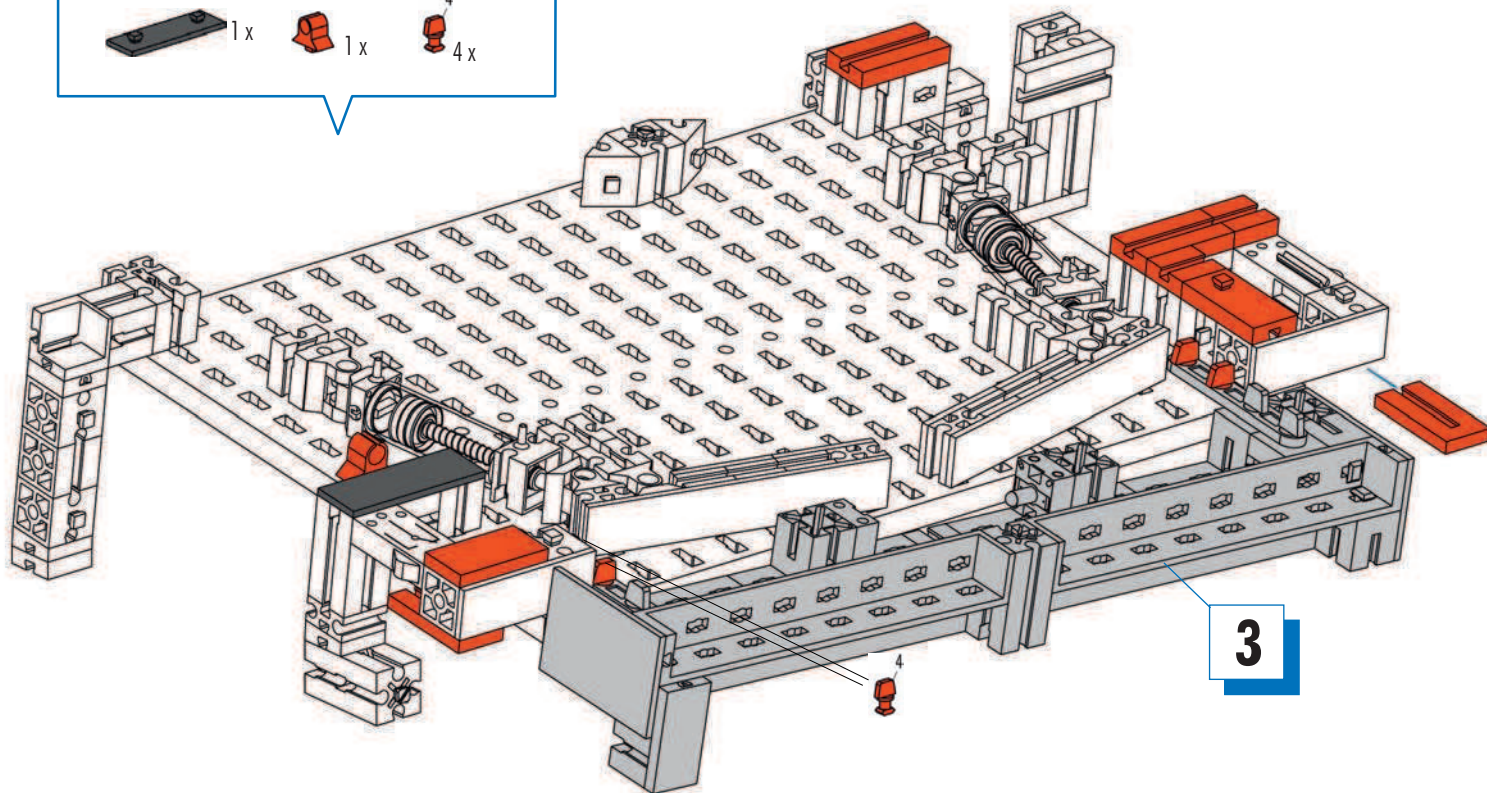


1 x



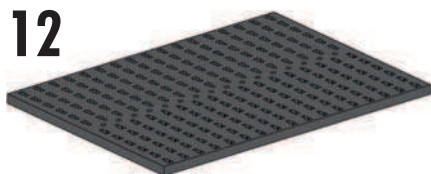
4

4 x



3

12



1 x



1 x



5 x



2 x



1 x

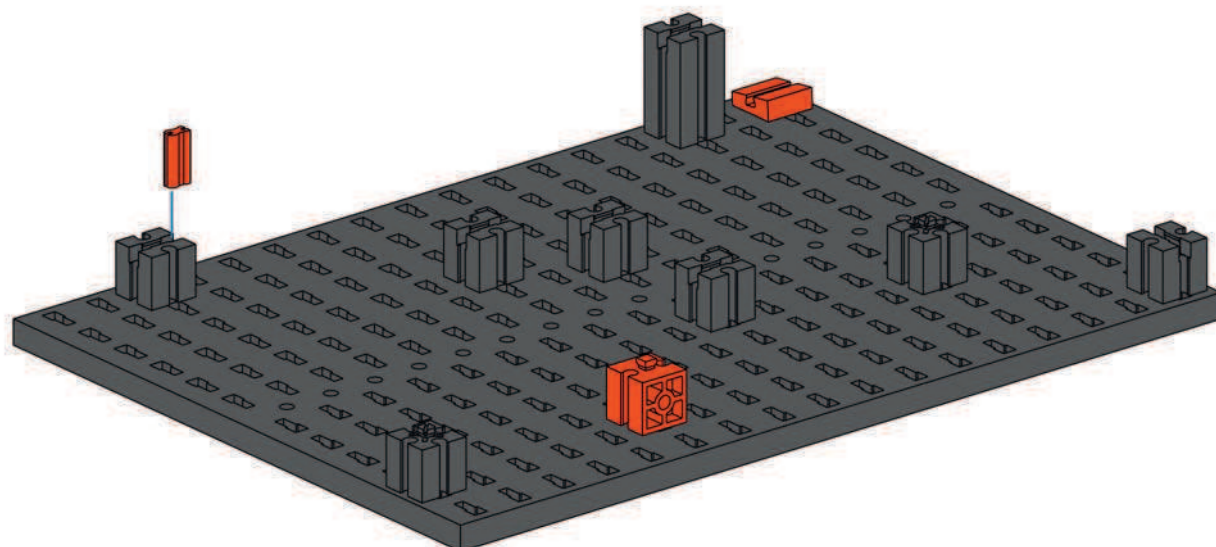


1 x



1 x

7,5°

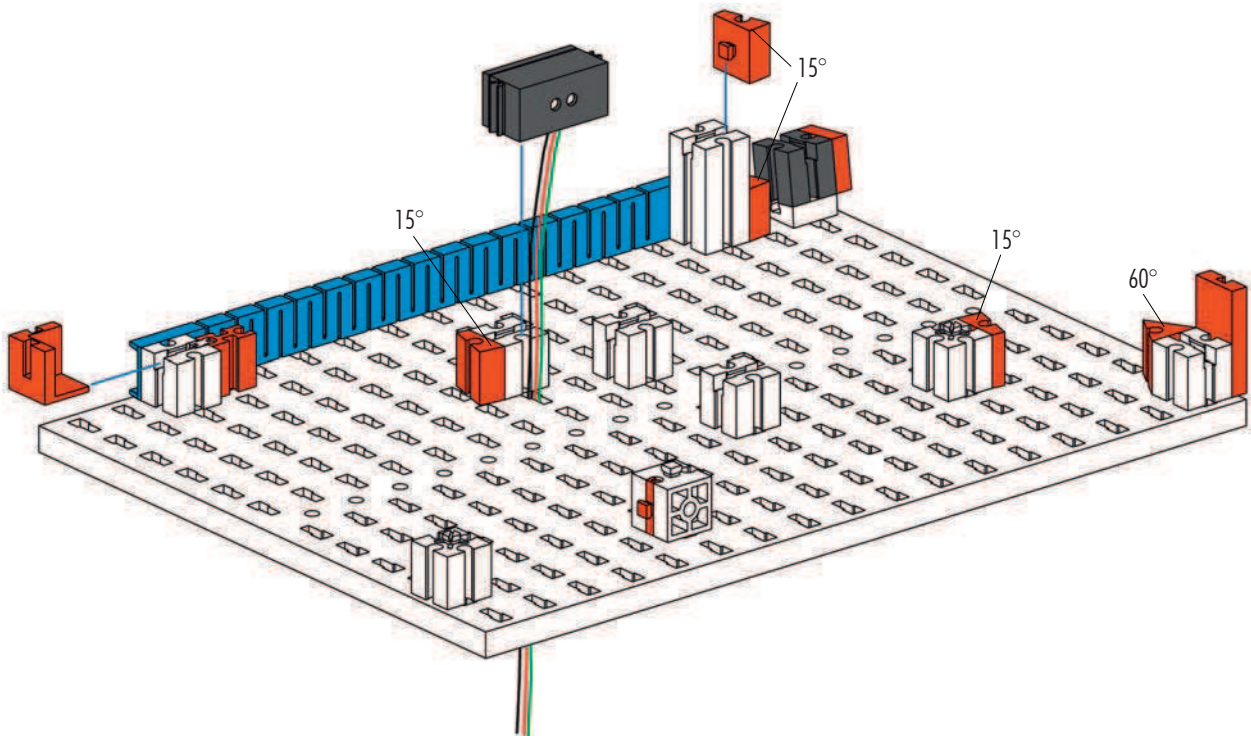
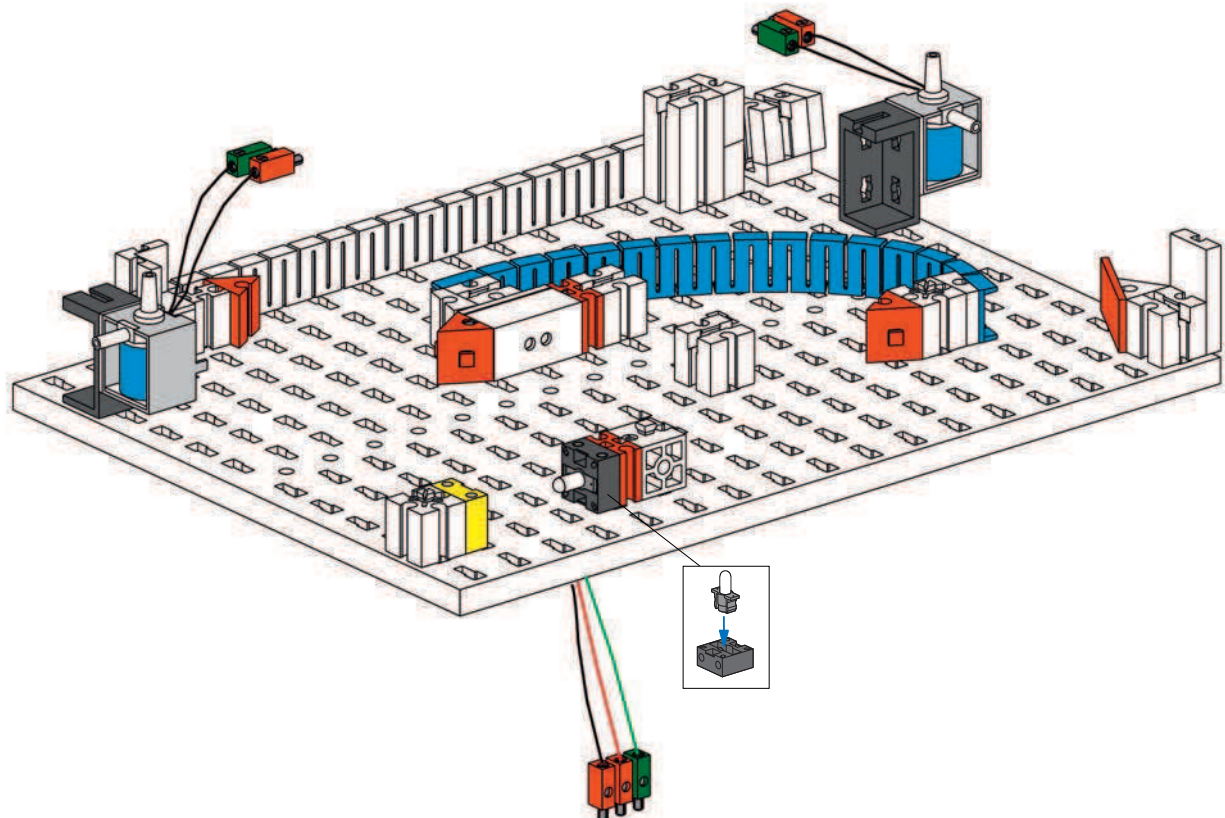


13

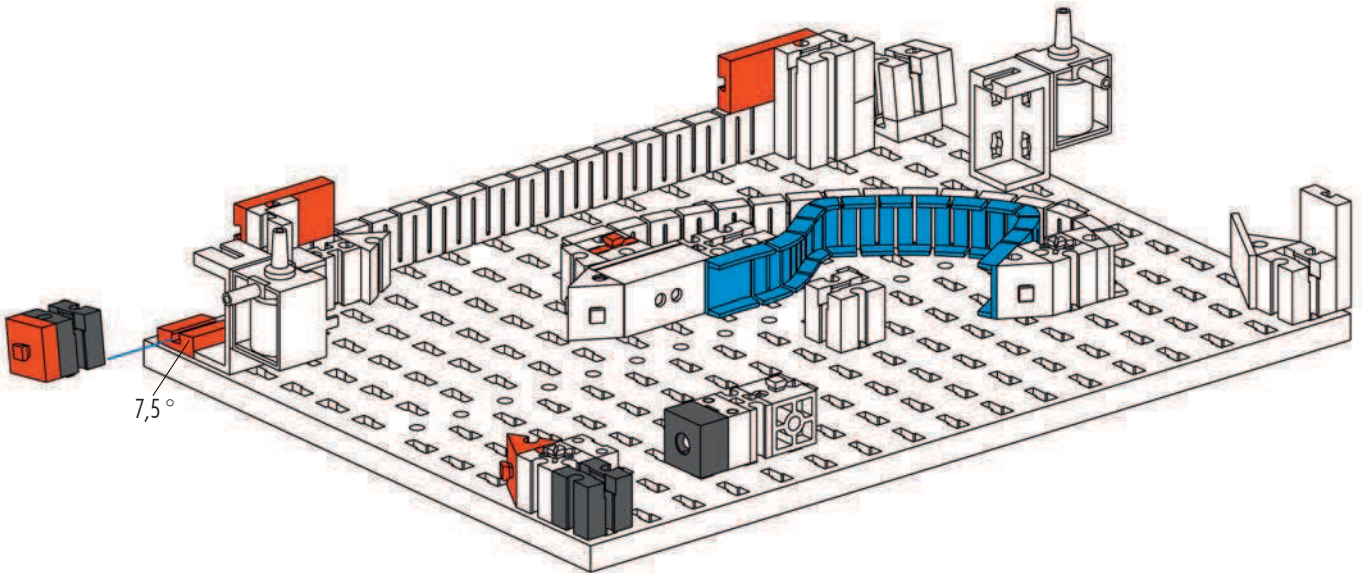
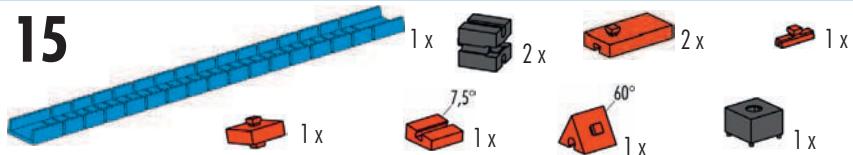


Parts list for step 13:

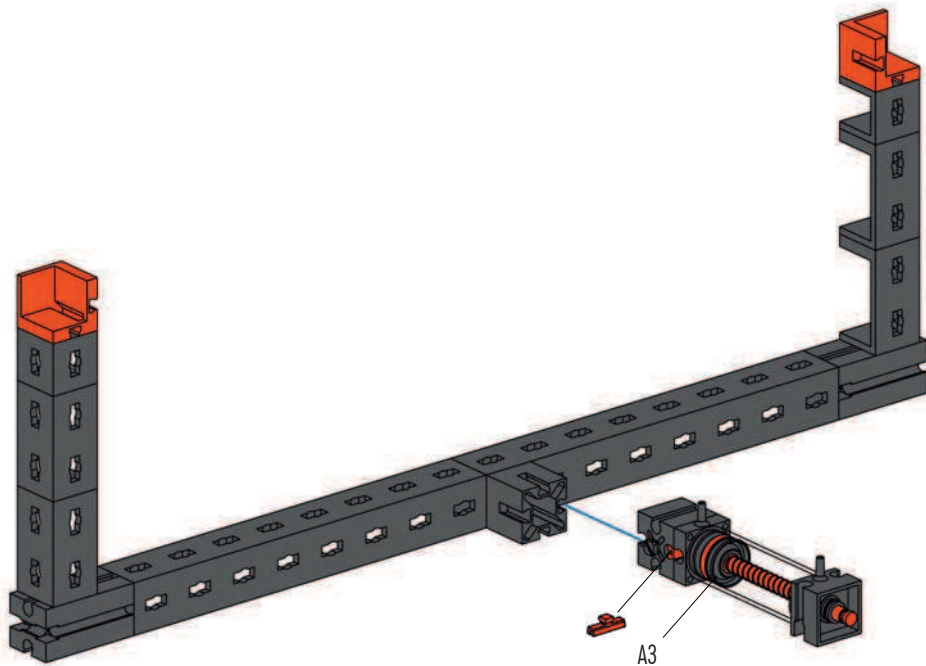
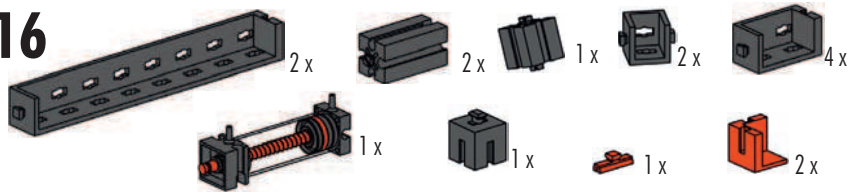
- 1x Blue 1x12 Technic Beam
- 1x Red 1x2 Technic Connector
- 1x Black 1x2 Technic Connector
- 1x Black 1x2 Technic Connector
- 1x Red 1x2 Technic Connector
- 4x Red 1x2 Technic Connector (15°)
- 1x Red 1x2 Technic Connector (60°)
- 1x Red 1x2 Technic Connector
- 1x Red 1x2 Technic Connector

[illegible]

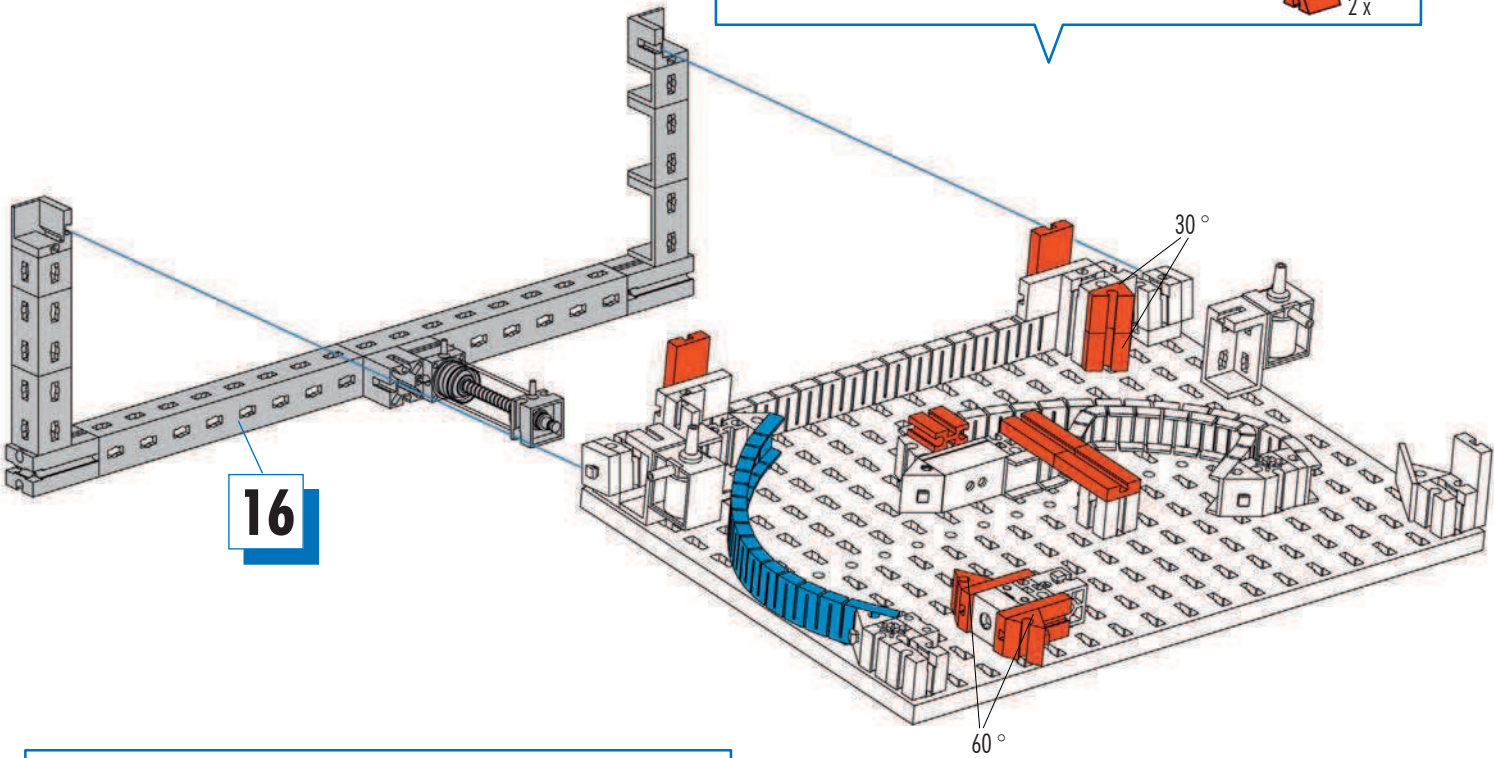
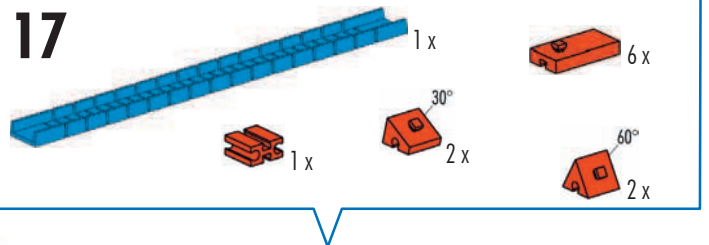
15



16

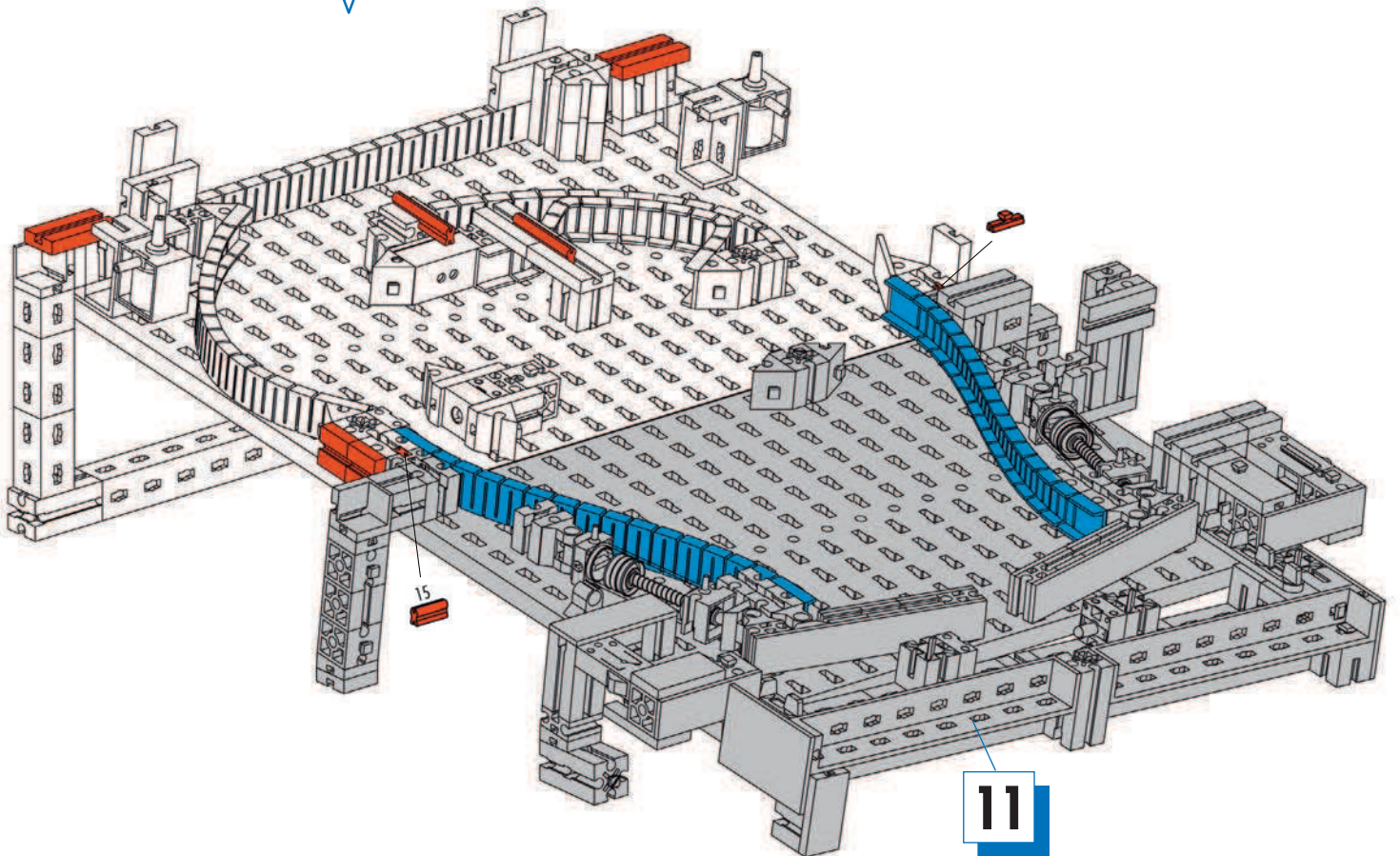
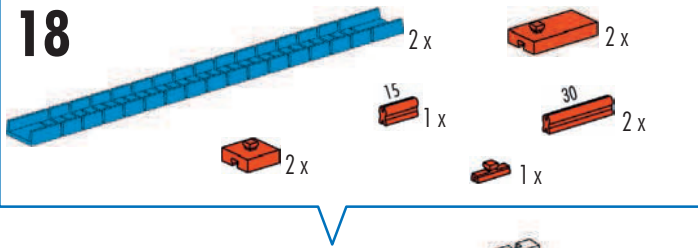


17



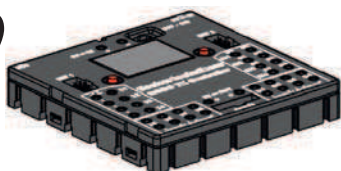
16

18



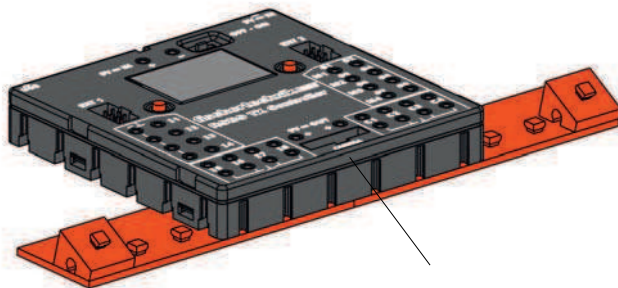
11

19



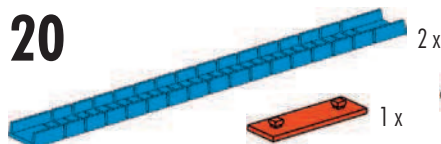
2 x

2 x



- ROBO TX Controller (Art.-Nr. 500 995) nicht im Baukasten enthalten
- ROBO TX Controller (Art.-Nr. 500 995) not included in the modular kit
- ROBO TX Controller (Art.-Nr. 500 995) n'est pas contenu dans le kit
- ROBO TX Controller (Art.-Nr. 500 995) niet in de bouwdoos opgenomen
- ROBO TX Controller (Art.-Nr. 500 995) no está incluido en el conjunto
- ROBO TX Controller (Art.-Nr. 500 995) não contido no sistema de construção por blocos
- ROBO TX Controller (Art.-Nr. 500 995) non incluso nella scatola di montaggio
- ROBO TX Controller (Art.-Nr. 500 995) не входит в комплект конструктора
- ROBO TX Controller (Art.-Nr. 500 995) 不包含在组件

20



2 x

2 x 30 cm

2 x

1 x

2 x

15

1 x

2 x

2 x

1 x

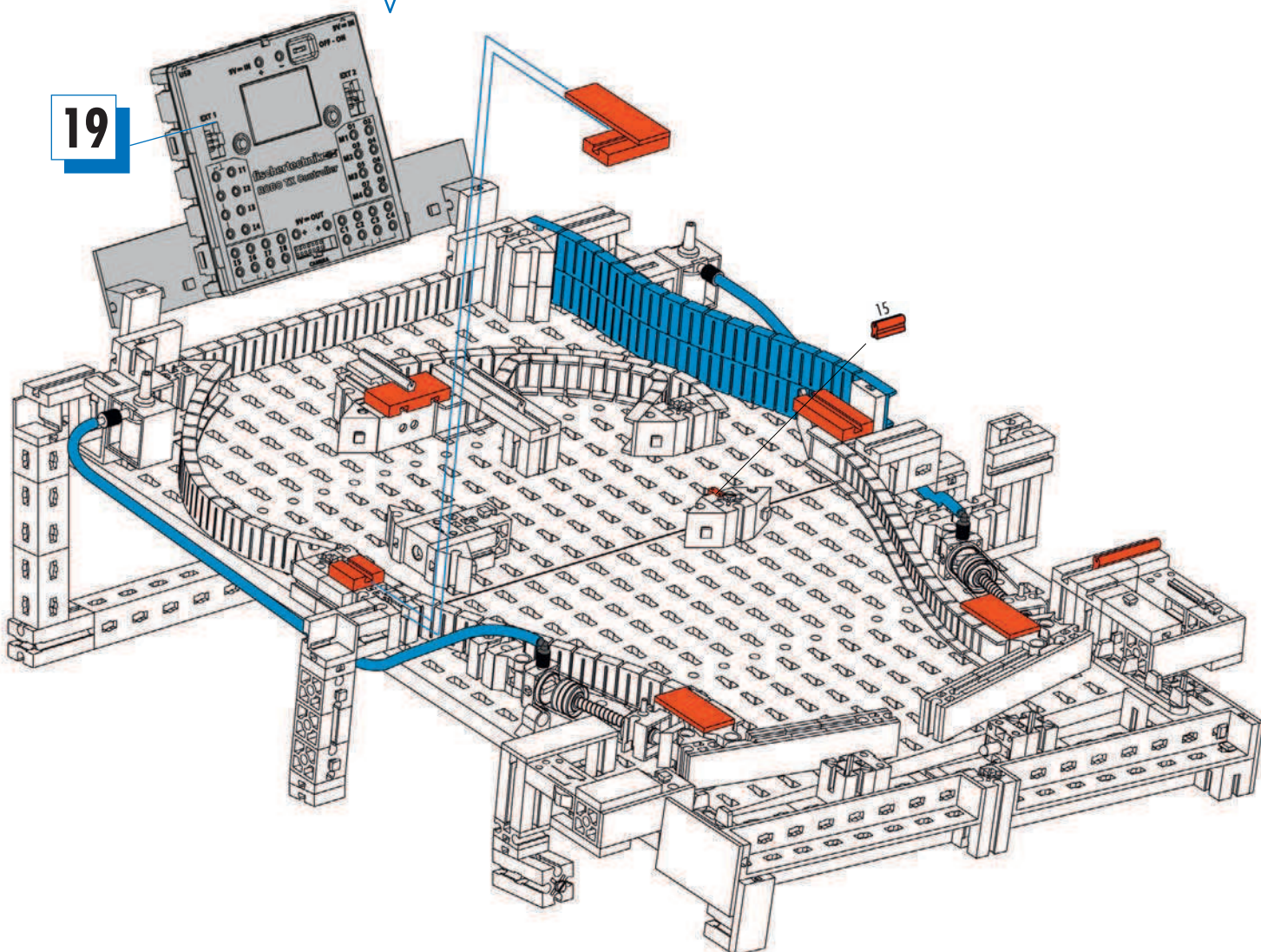
1 x

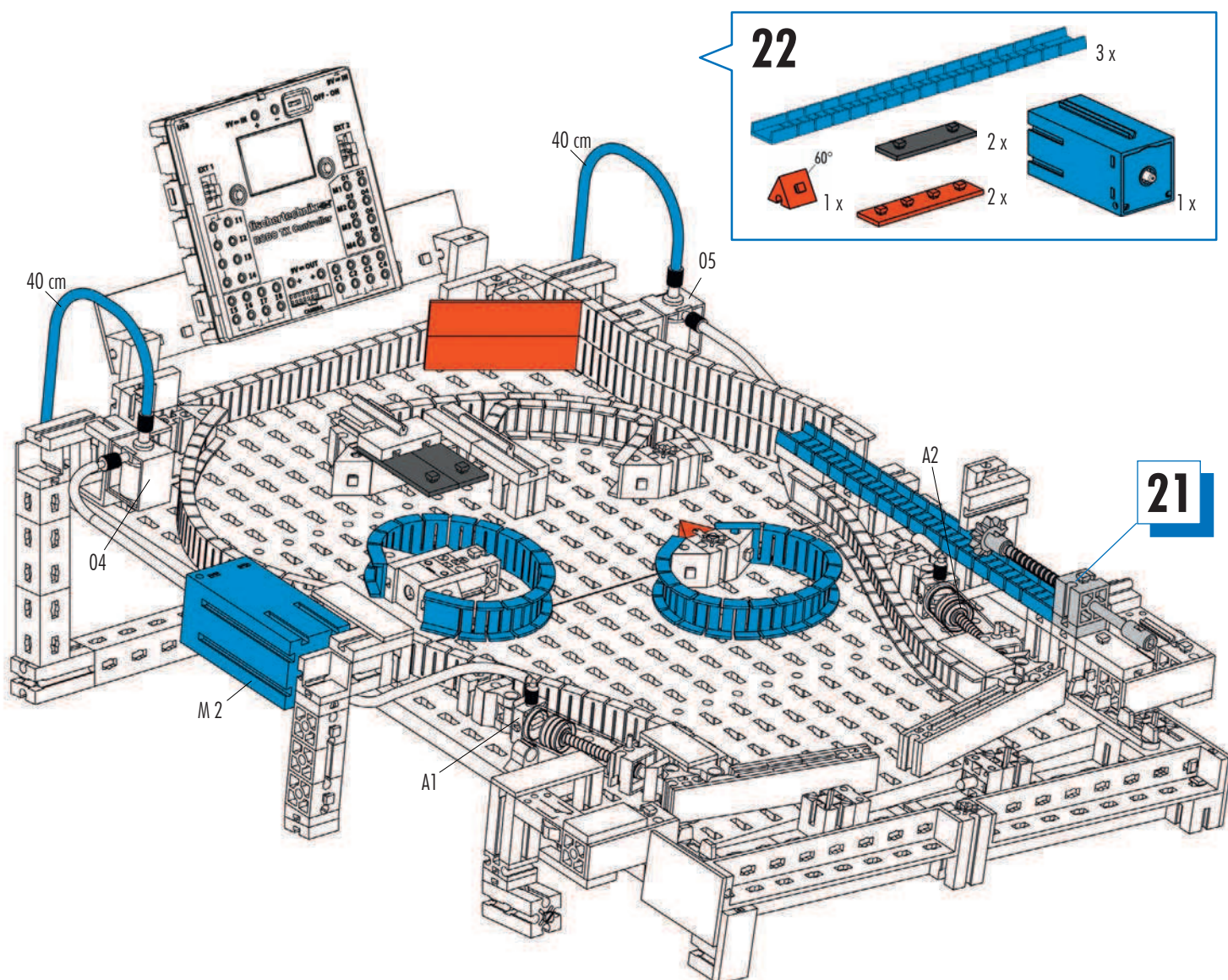
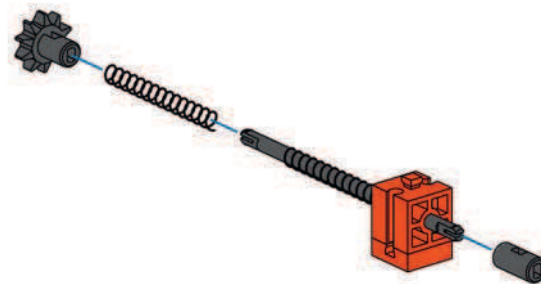
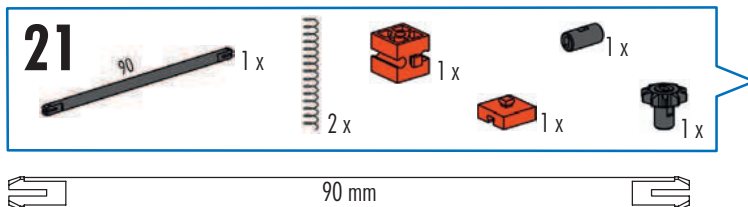
1 x

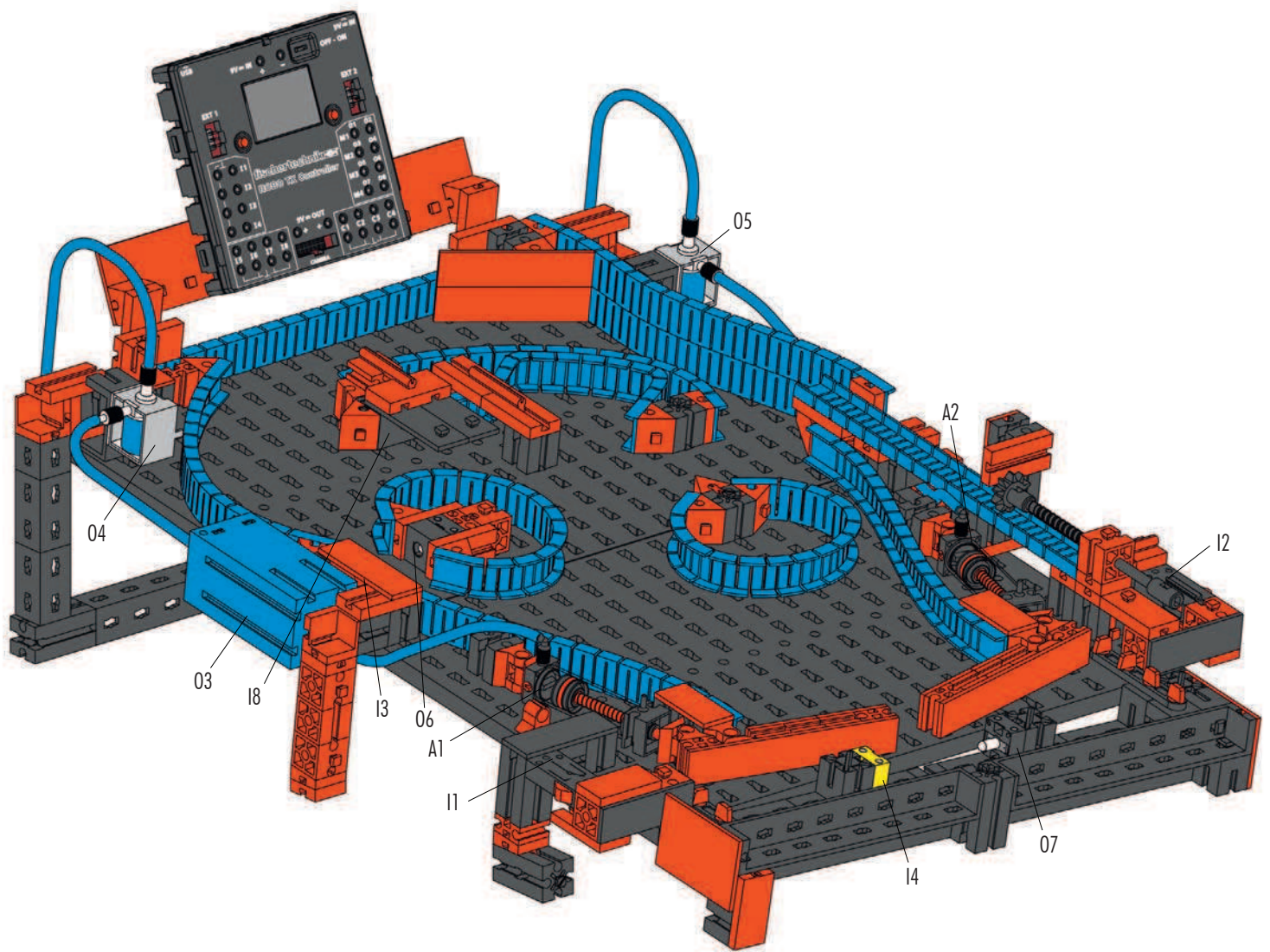
30

1 x

19



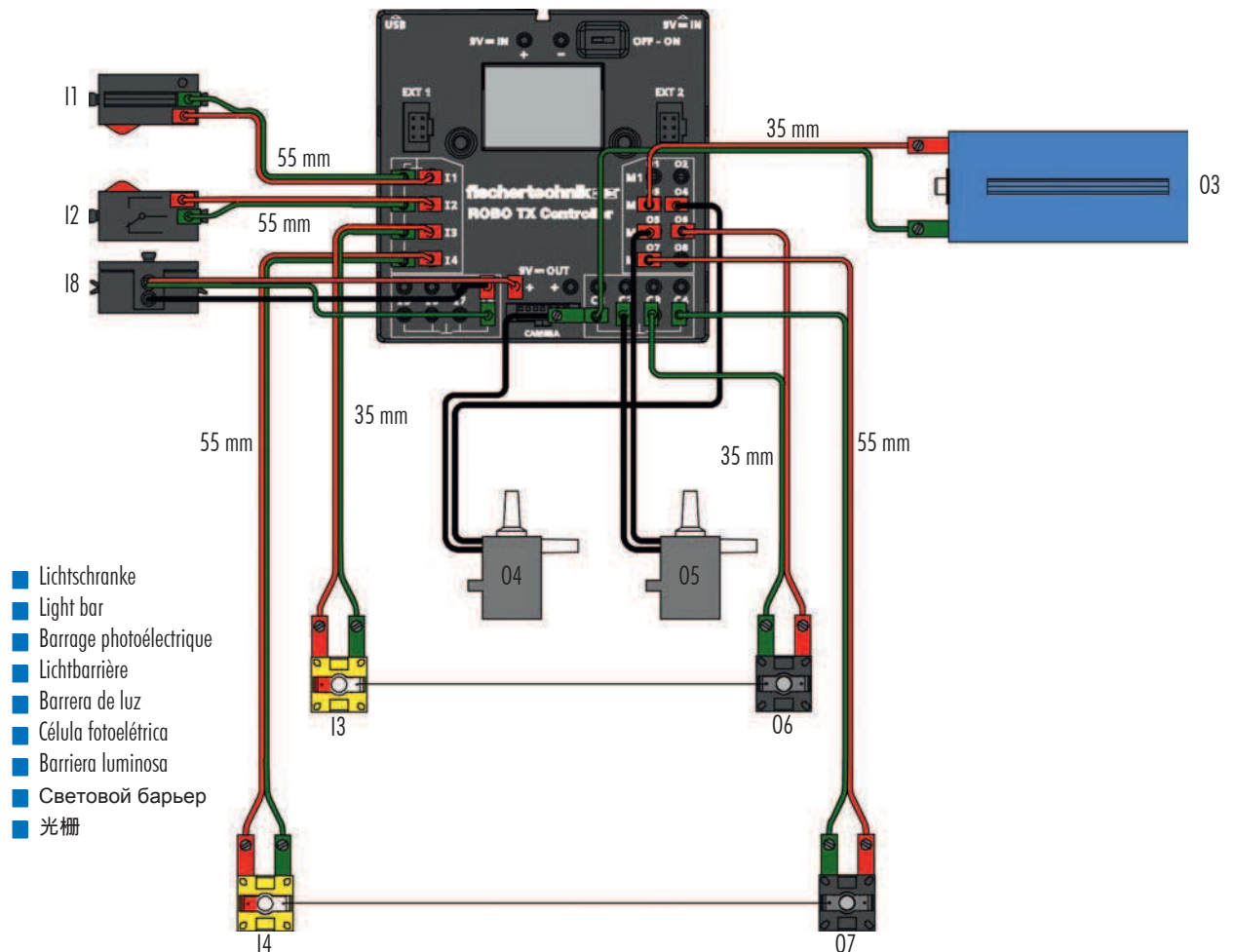




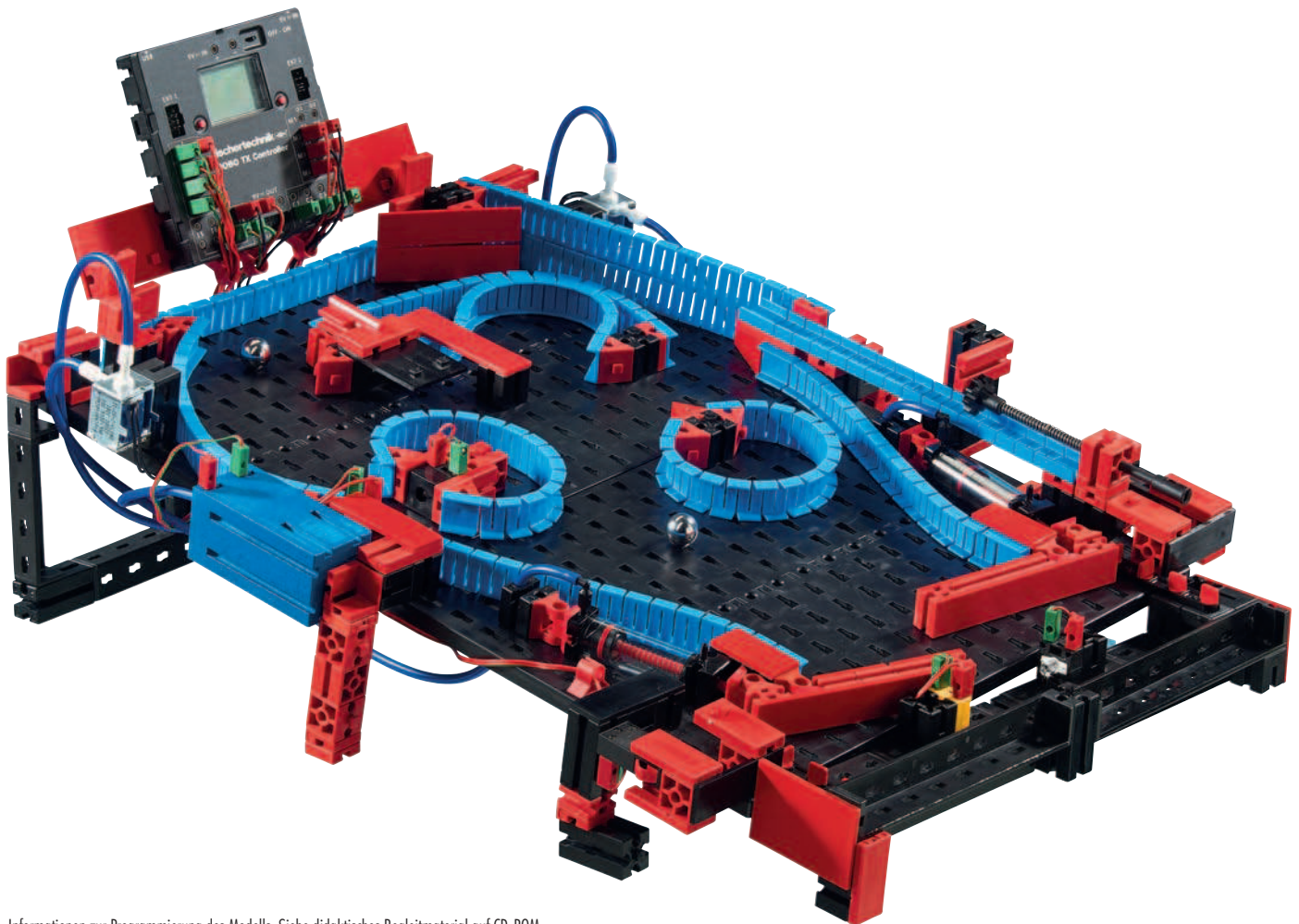
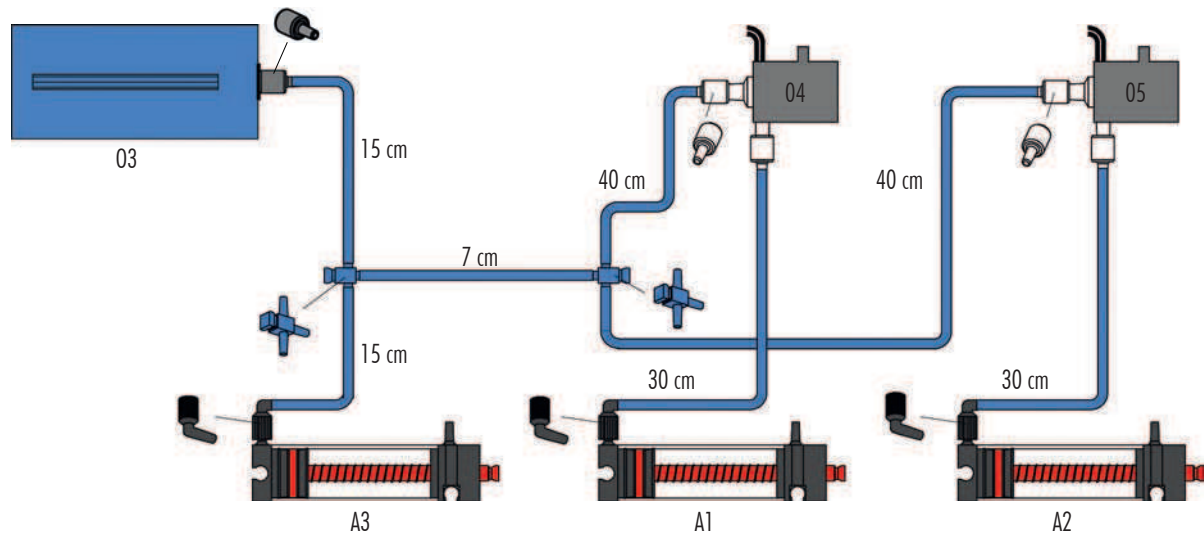
Schaltplan
Circuit diagram
Plan électrique

Schakelschema
Diagrama de circuitos
Plano elétrico de ligação

Schema elettrico
Схема подключения
电路图



- Lichtschränke
- Light bar
- Barrage photoélectrique
- Lichtbarrière
- Barrera de luz
- Célula fotoelétrica
- Barriera luminosa
- Световой барьер
- 光栅



- Informationen zur Programmierung des Modells: Siehe didaktisches Begleitmaterial auf CD-ROM.
- Information on programming model: See related instructional material on CD-ROM.
- Informations concernant la programmation de la maquette : voir le matériel d'accompagnement didactique sur le CD-ROM.
- Informatie over de programmering van het model: Zie het didactisch begeleidend materiaal op CD-ROM.
- Informaciones sobre la programación del modelo: Véase material didáctico adjunto en el CD-ROM.
- Informações sobre a programação do modelo: ver o material didático de acompanhamento no CD-ROM.
- Informazioni sulla programmazione del modello: vedi materiale didattico su CD-ROM.
- Информация о программировании модели: смотрите обучающий сопроводительный материал на CD.
- 有关该模型编程的信息：见 CD 光盘上的指导性说明资料。