



# GRANDFATHER CLOCK BUILDING SET

### CAUTION:

- BE SURE TO SAVE THESE INSTRUCTIONS.
- FOR INDOOR USE ONLY.
- Be careful not to tip the model over. Model should be placed on a hard, flat surface.
- Examine the motor components regularly, looking for damaged parts or possible overheating.
- The K'NEX Motor should be examined periodically for potential hazard; any potentially hazardous components should be repaired or replaced.
- AC adapter INPUT: 120 Volts AC; 60 Hz; 17 Watts  
OUTPUT: 12 Volts DC; 500mA DC
- AC adapter must ONLY be plugged into 120V AC electrical outlet.
- Do not use motor or AC adapter if the power cord is broken or worn.
- Never get motor wet; do not plug AC adapter into electrical outlets near water.
- Never attempt to stop any moving parts; you may work the white worm gear loose from the motor.

## CAUTION—ELECTRIC TOY:

Not recommended for children under 16 years of age. As with all electric products, precautions should be observed during handling and use to prevent electric shock.

For Ages **16+**



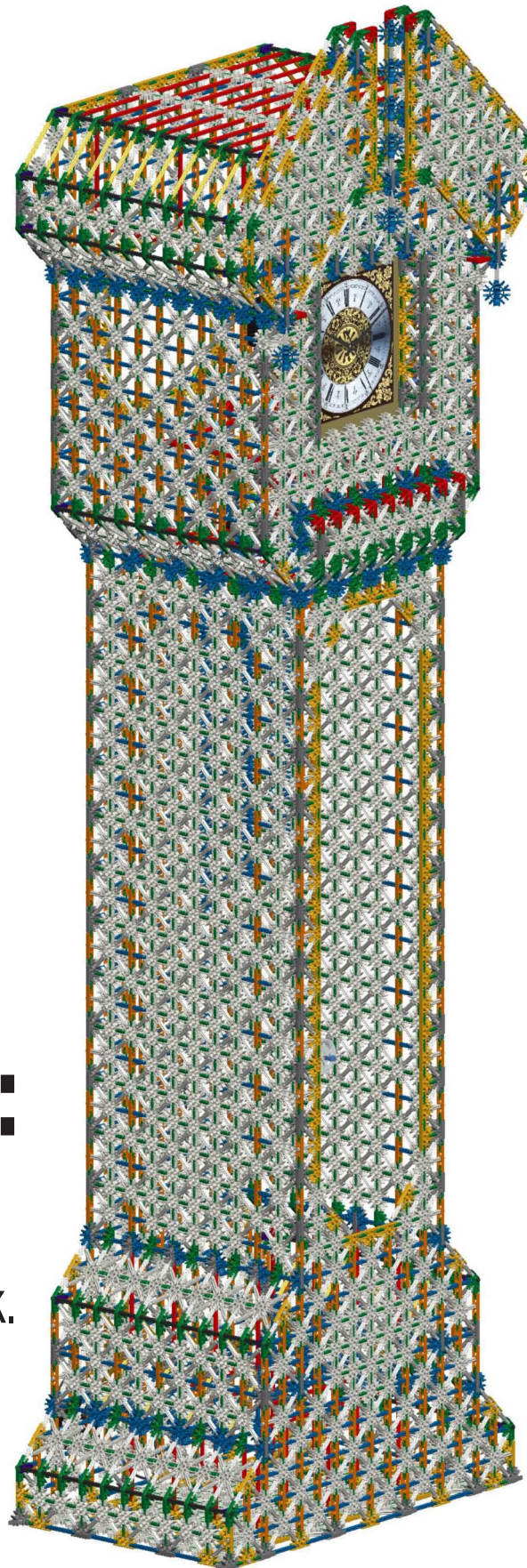
**WARNING:**

CHOKING HAZARD - Small parts.  
Not for children under 3 years.



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P.O. Box 700  
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United States

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## Battery Information

### CAUTION:

- Be sure to insert the batteries correctly and always follow the toy and battery manufacturers' instructions.
- Do not mix old and new batteries or alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries. Only batteries of the same or equivalent type recommended should be used.
- Always remove weak or dead batteries from the product; do not short-circuit supply terminals.
- Insert batteries with correct polarity (+/-) as shown.

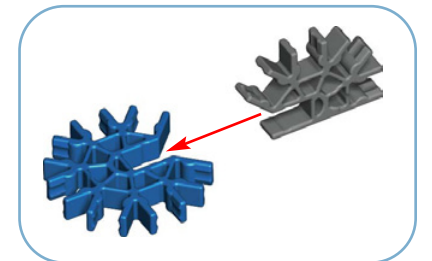
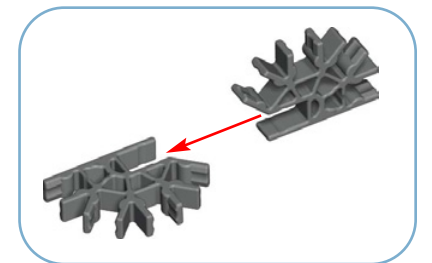
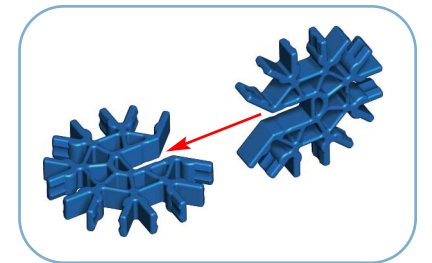
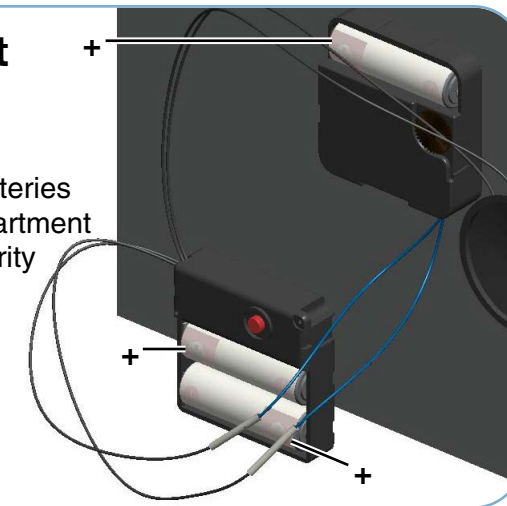
### Important Tips

- Alkaline batteries AA (LR6) are recommended.
- Rechargeable batteries are not recommended.
- Remove rechargeable batteries from toy before charging; they must be charged only under adult supervision.

- Non-rechargeable batteries must not be recharged.
- Keep components free of dust; do not immerse or use in water.
- Do not dispose of batteries in a fire; they could leak or explode and cause injury.
- Remove all batteries if the toy will not be used for a long period of time.
- Do not put rods smaller than 2 inches in any openings of the motor; they will damage the motor and cannot be removed.
- Help the environment by disposing of your product and packaging responsibly. The wheelee bin symbol indicates that the product and batteries must not be disposed of in the domestic waste as they contain substances which can be damaging to the environment and health. Please use designated collection points or recycling facilities when disposing of the item or batteries.

### How to Insert and Remove Batteries

Insert 3 fresh AA batteries (LR6) into the compartment with the correct polarity (+/-) as shown here.



### Connectors:

There are blue and gray connectors with special long slots. They slide together as you see in the pictures. Push these parts together until you hear a "click."

### NOTE:

You will not need all the K'NEX parts to build this clock. A number of extra parts are included in case some get misplaced.



# HORLOGES GRAND-PÈRE JEU DE CONSTRUCTION

## MISE EN GARDE :

- VEILLEZ À CONSERVER CES INSTRUCTIONS.
- UNIQUEMENT DESTINÉ À UNE UTILISATION À L'INTÉRIEUR.
- Faites attention de ne pas faire basculer le modèle. Le modèle doit être placé sur une surface dure, plate..
- Examinez régulièrement les éléments composant le moteur, vérifiez qu'il n'y a pas de pièces abîmées ou une potentielle surchauffe.
- Le moteur K'NEX doit être régulièrement examiné afin de vérifier l'absence de tout danger potentiel ; tout danger potentiel, tout composant potentiellement dangereux doit être réparé ou remplacé.
- L'adaptateur AC ENTRÉE : 120 Volts CA; 60 Hz; 17 Watts  
SORTIE : 12 Volts CC; 500mA CC
- L'adaptateur AC doit être uniquement branché sur une prise électrique de 120V AC.
- N'utilisez pas le moteur ou l'adaptateur AC si le cordon d'alimentation est cassé ou usé.
- Ne mouillez jamais le moteur ; ne branchez pas l'adaptateur AC dans des prises se trouvant à proximité d'eau.
- Ne tentez jamais d'arrêter des pièces en mouvement ; vous prendriez le risque de compromettre la fixation de l'engrenage à vis sans fin blanc du moteur.



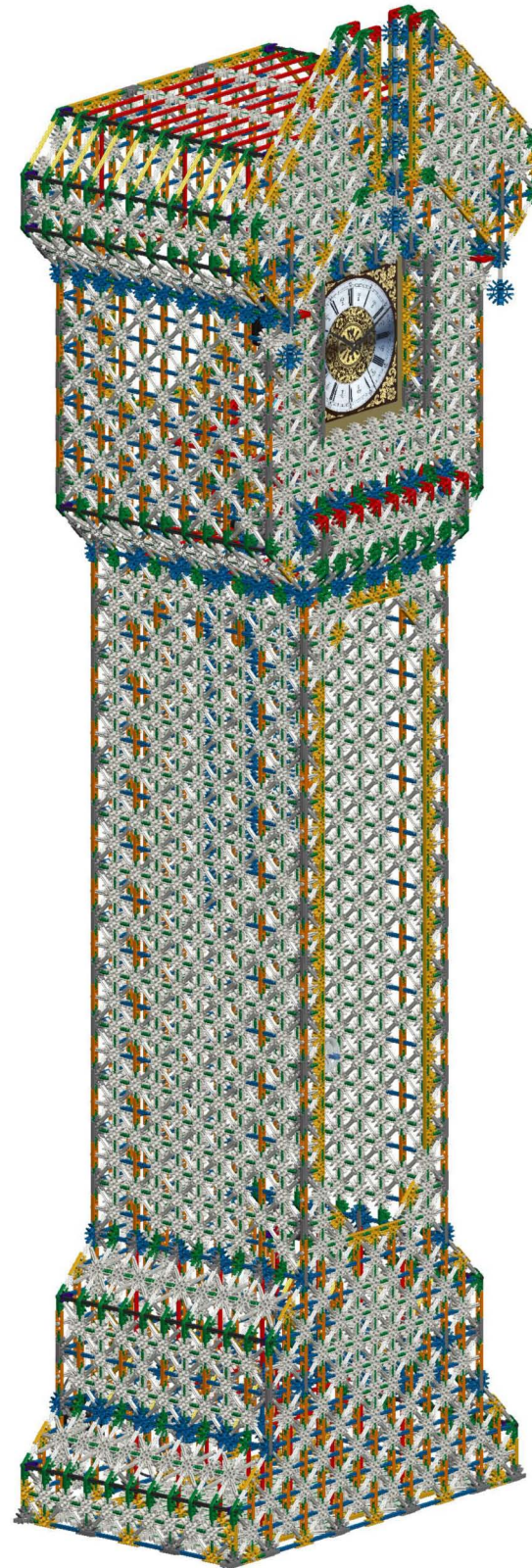
## AVERTISSEMENT :

DANGER D'ÉTOUFFEMENT - Pièces de petite taille.  
Ne convient pas aux enfants de moins de 3 ans.



Pour l'âge **16+**

K'NEX est une marque déposée de of K'NEX Limited Partnership Group.



## Informations Pile

### ATTENTION :

- S'assurer d'installer les piles correctement et de suivre toujours les directives des fabricants du jouet et des piles.
- Ne pas mélanger des piles neuves avec des piles usées. Ne pas mélanger des piles alcalines avec des piles standard (Leclanché), ou des piles rechargeables (au nickel-cadmium). Il convient d'utiliser uniquement des piles du type recommandé ou d'un type équivalent.
- Retirer toujours les piles faibles ou mortes du produit ; ne pas faire court-circuiter les terminaux.
- Installer les piles en respectant la polarité (+/-) comme l'indique le schéma.

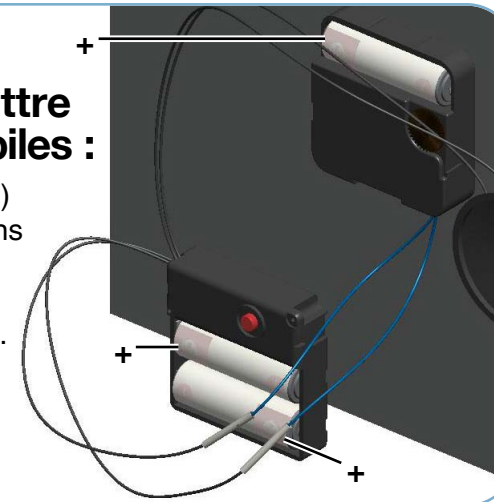
### Conseils importants :

- Les piles alcalines sont recommandées.
- Il est déconseillé d'utiliser des piles rechargeables.
- Retirer les piles rechargeables du jouet avant de les recharger; elles doivent être chargées exclusivement en présence d'un adulte.

- Les piles qui ne sont pas rechargeables ne doivent pas être rechargées.
- Veiller à ce que les éléments restent à l'abri de la poussière ; ne pas les plonger dans l'eau ; ne pas utiliser dans l'eau.
- Ne pas jeter les piles dans le feu ; elles risqueraient de fuir ou d'exploser et d'entraîner des blessures.
- Retirer toutes les piles si le jouet restera inutilisé pendant longtemps.
- Ne mettez pas les petites tiges dans les trous du moteur, elles endommageraient le moteur et il n'est pas possible de les enlever.
- Aidez l'environnement en jetant votre produit et son emballage de manière responsable. Le symbole de la poubelle à roulettes indique qu'il ne faut pas jeter le produit et les piles avec les ordures ménagères car ils contiennent des substances pouvant être nocives à l'environnement et à la santé. Veuillez utiliser les points de collecte de déchets ou les centres de tri désignés lorsque vous jetez l'article ou les piles.

### Comment mettre et retirer des piles :

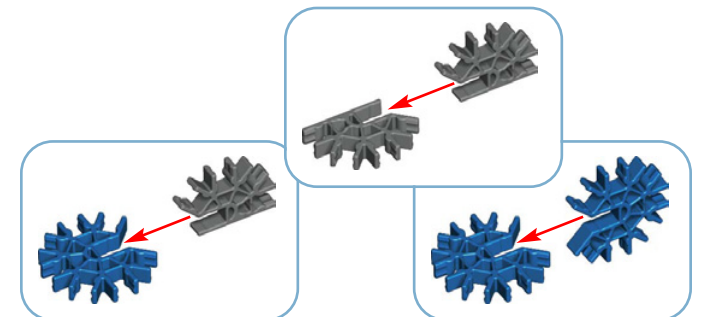
Insérer 3 AA (ou LR6) batteries fraîches dans le compartiment de batterie avec la polarité correcte (+/-).



**NOTE :** Vous n'aurez pas besoin de tous les morceaux de K'NEX pour construire cette horloge. Un grand nombre de morceaux supplémentaires sont inclus au cas où vous manquerez quelques morceaux.

### Connecteurs :

Tu peux assembler ces connecteurs tout à fait uniques en les faisant glisser l'un avec l'autre. Pousse fort jusqu'à ce que tu entendes un « clic ». Lis les instructions attentivement et positionne-les horizontalement ou verticalement, en suivant exactement les illustrations.

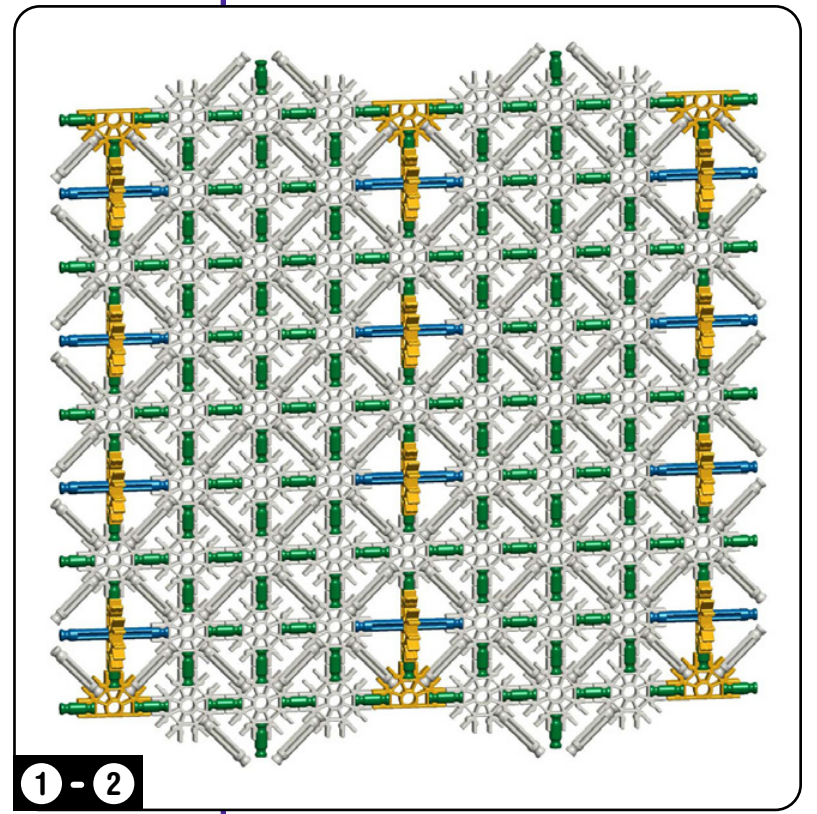
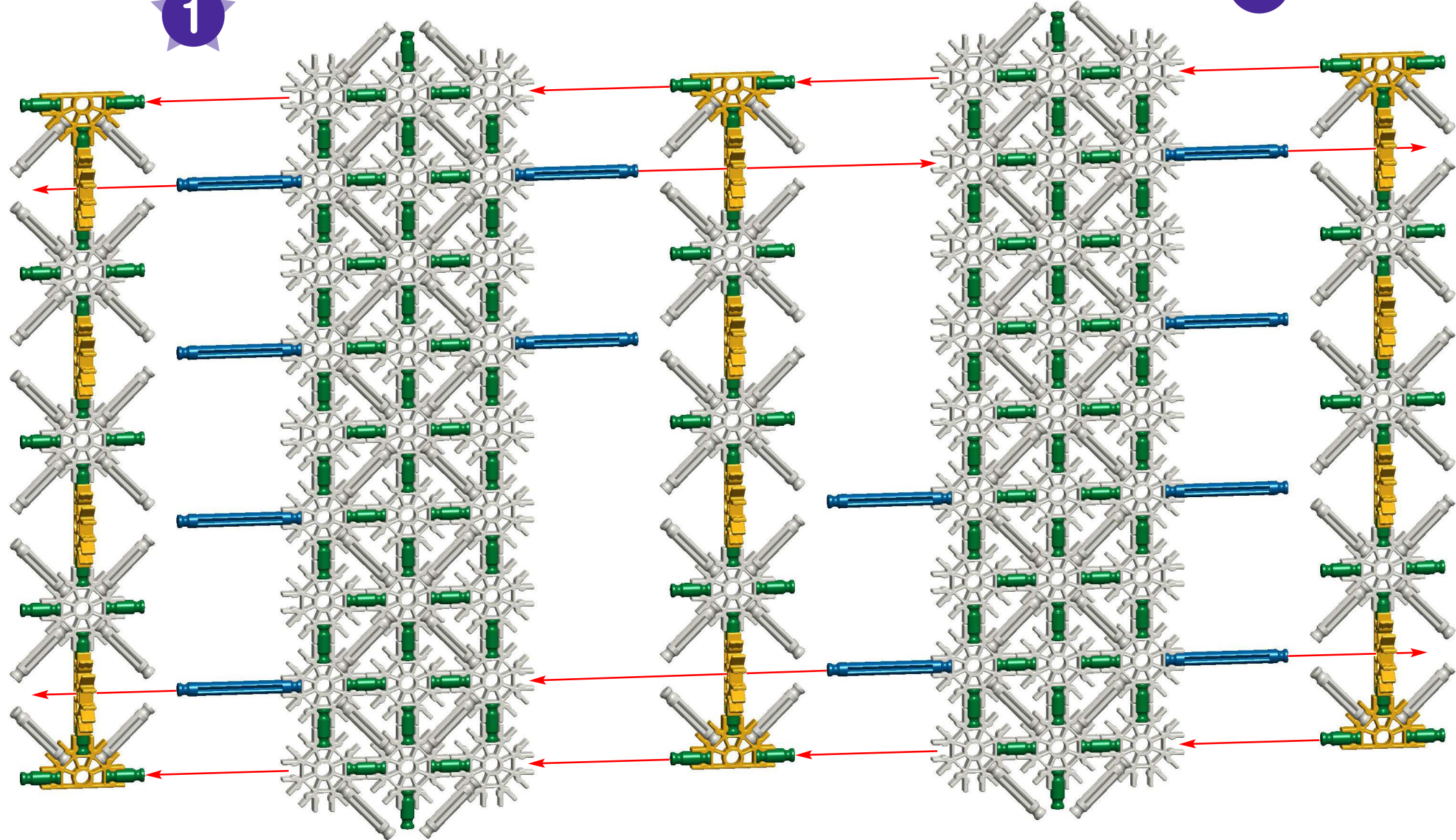


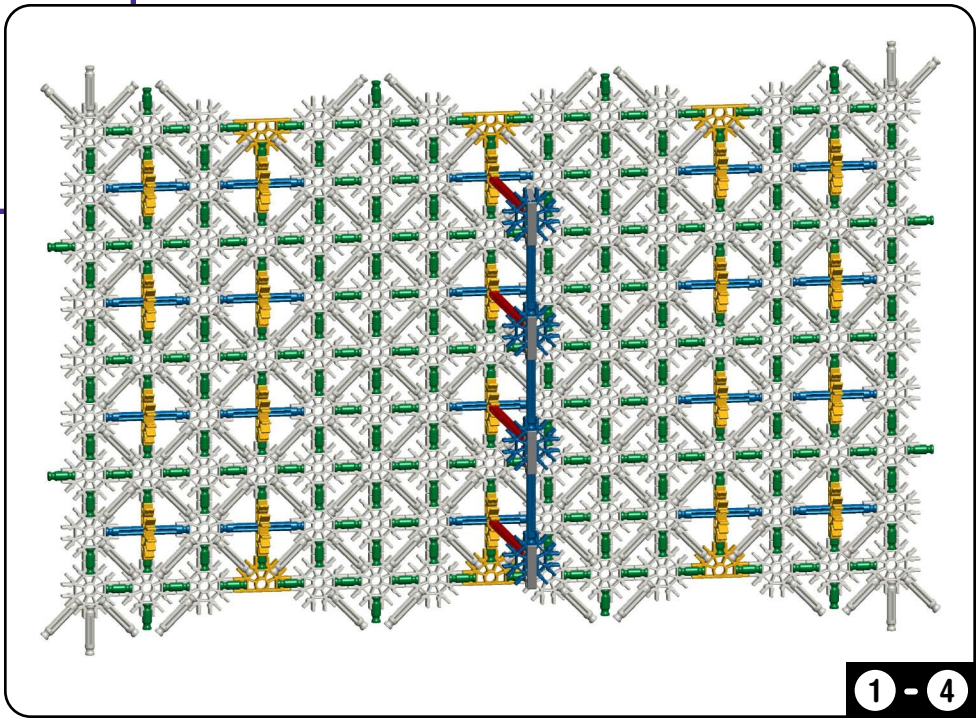
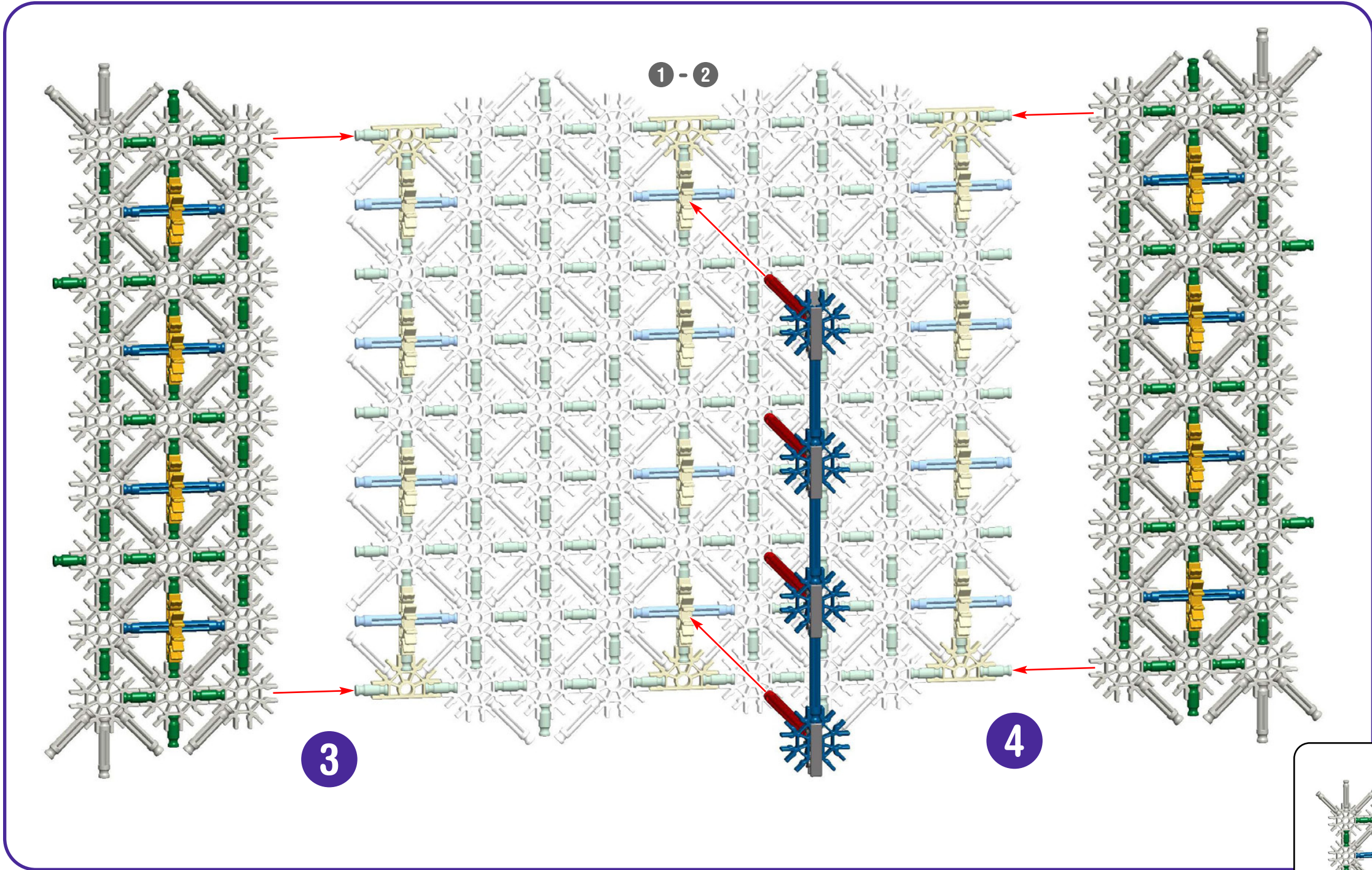
## MISE EN GARDE-JOUET ÉLECTRIQUE :

Ce modèle n'est pas recommandé aux enfants de moins de 16 ans. Comme c'est le cas avec tous les produits électriques, il convient d'observer des précautions pendant la manipulation et l'utilisation afin de prévenir un choc électrique.

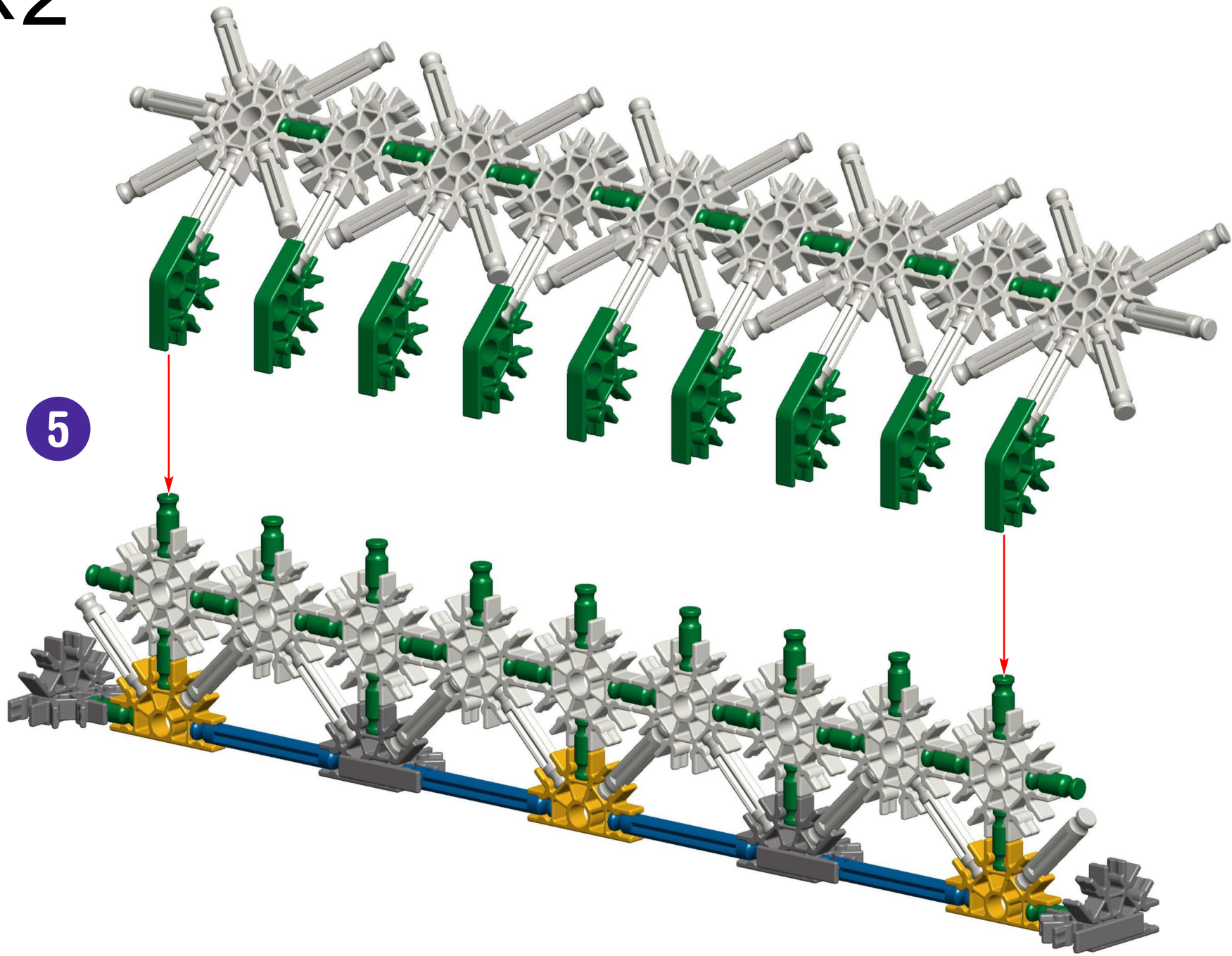
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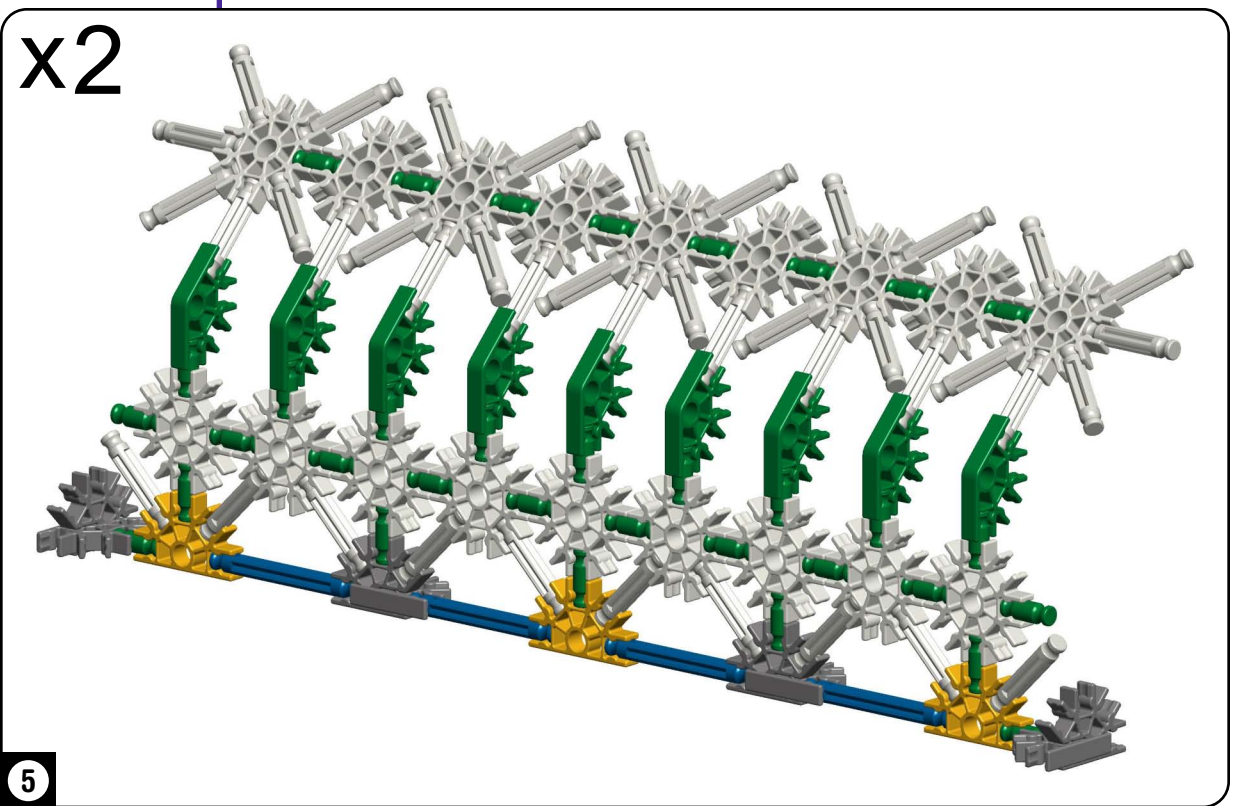




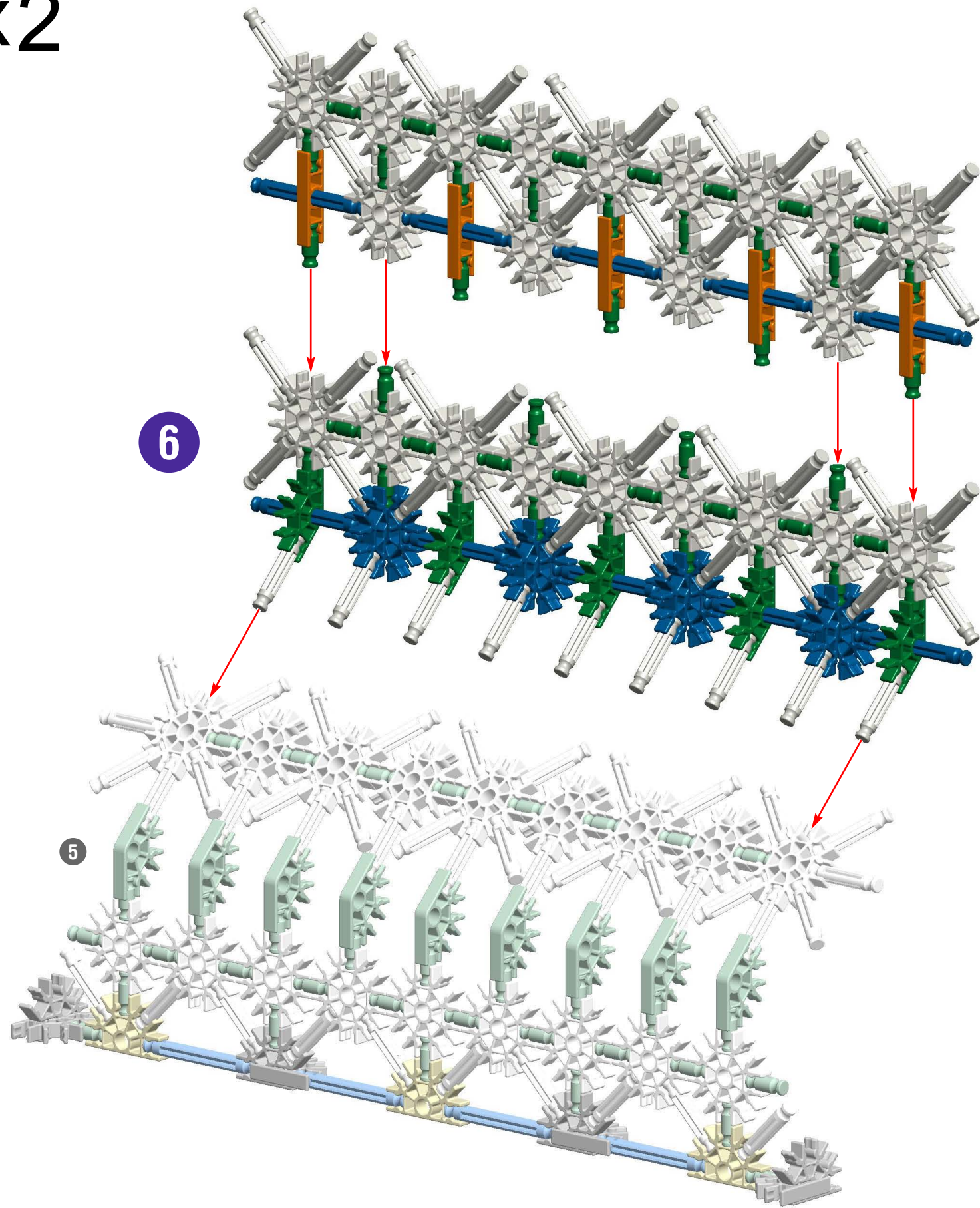
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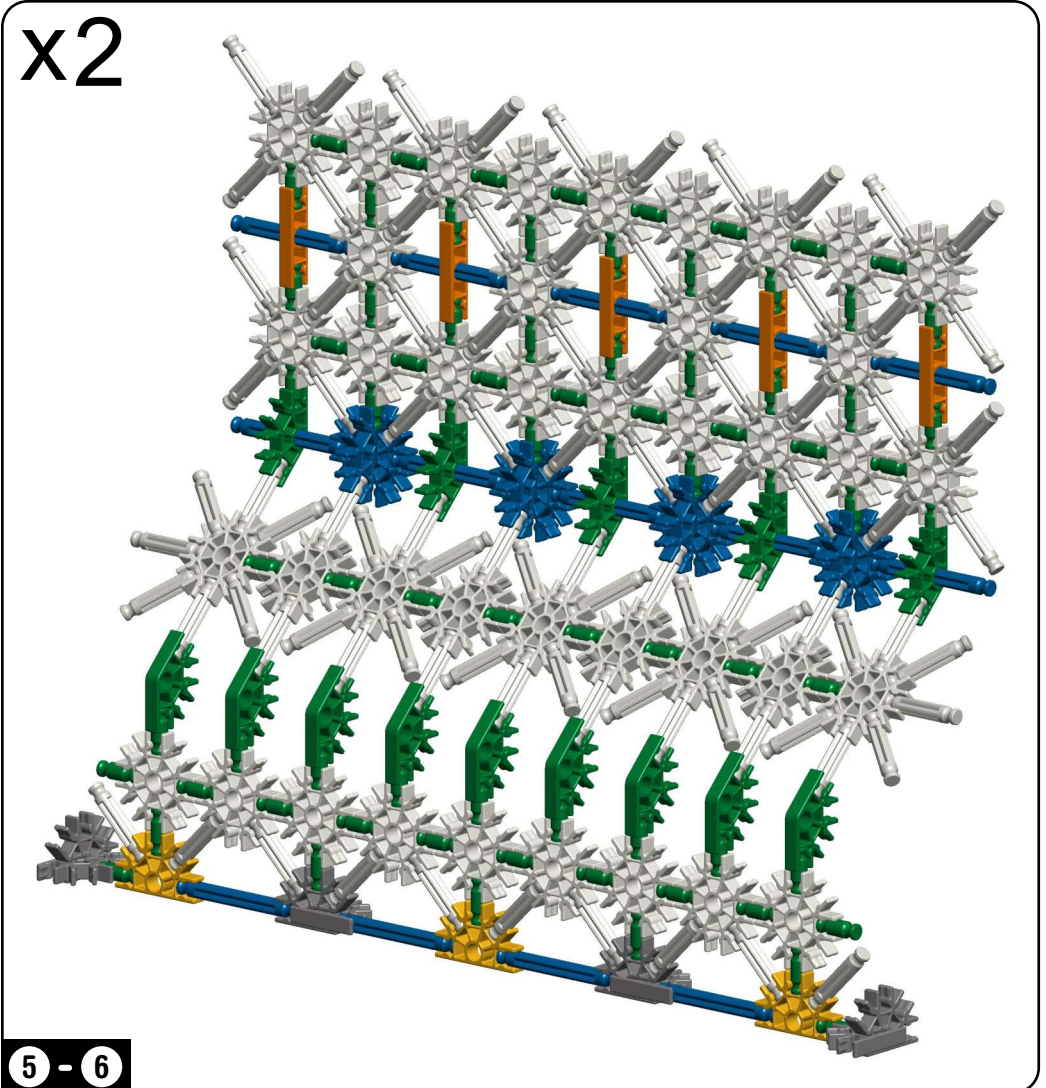
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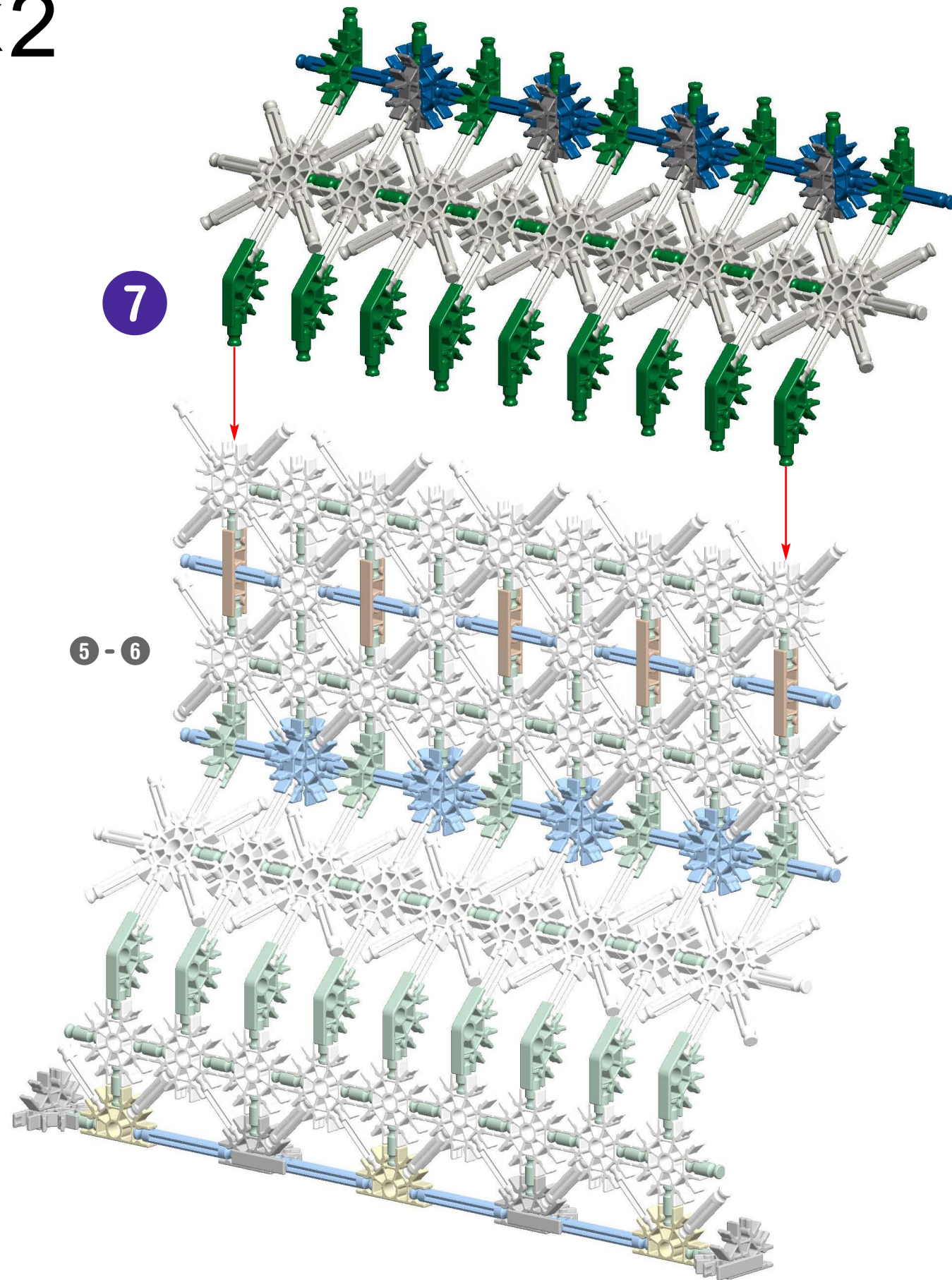
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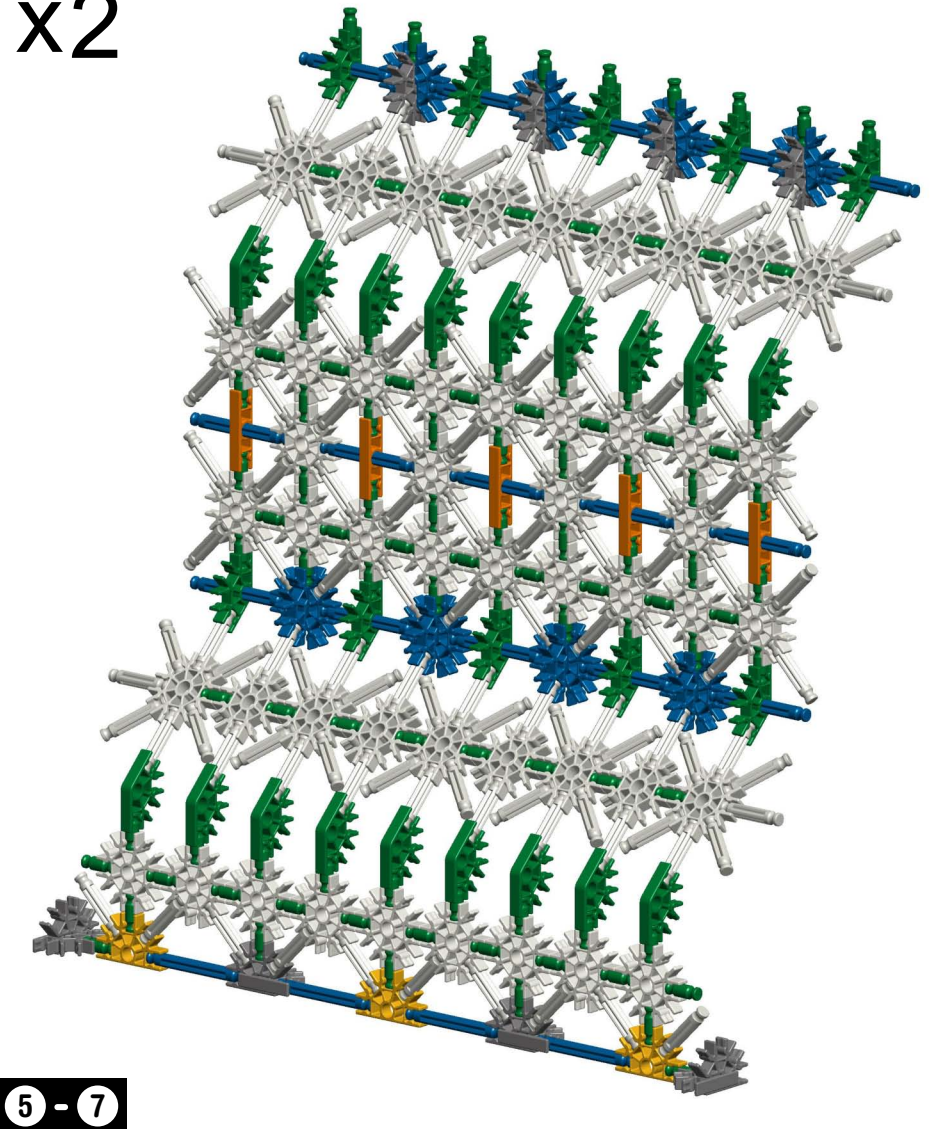
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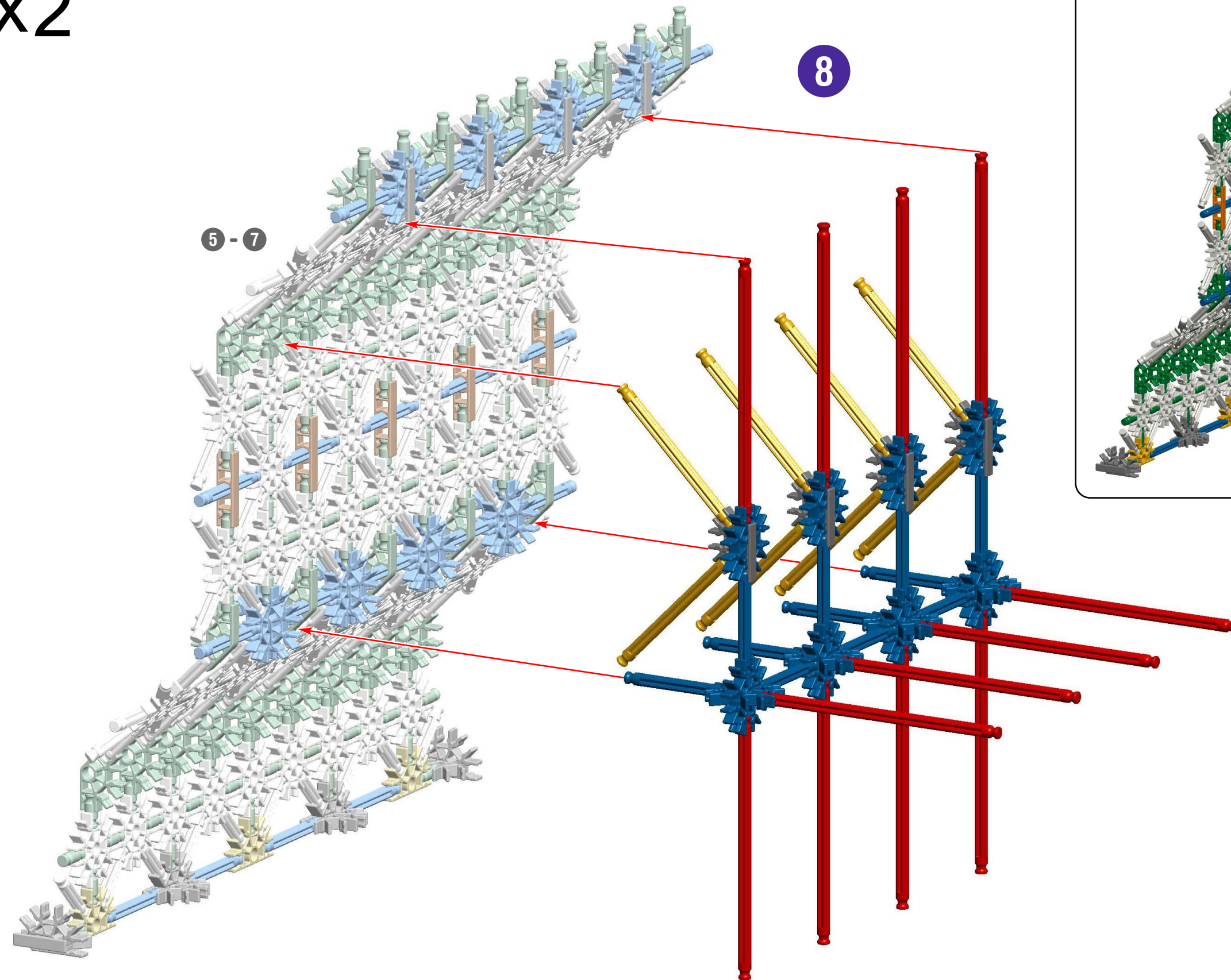
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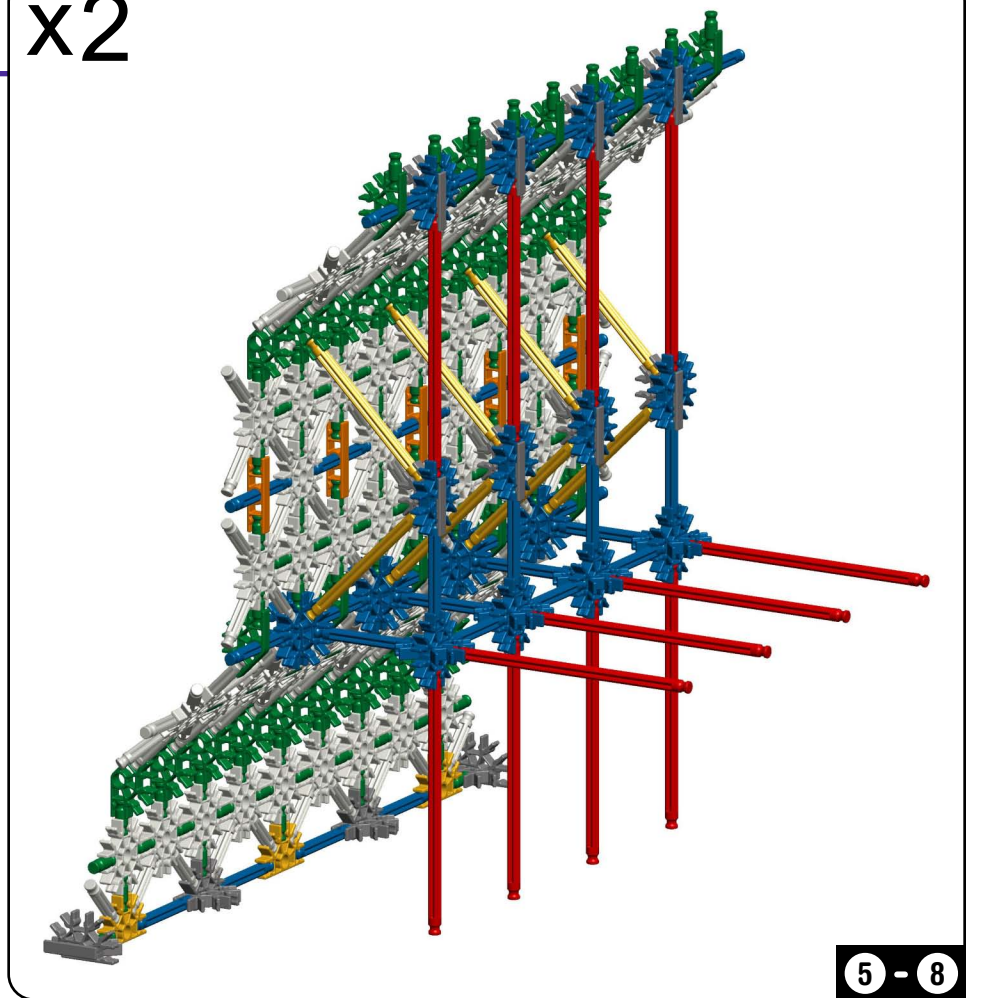
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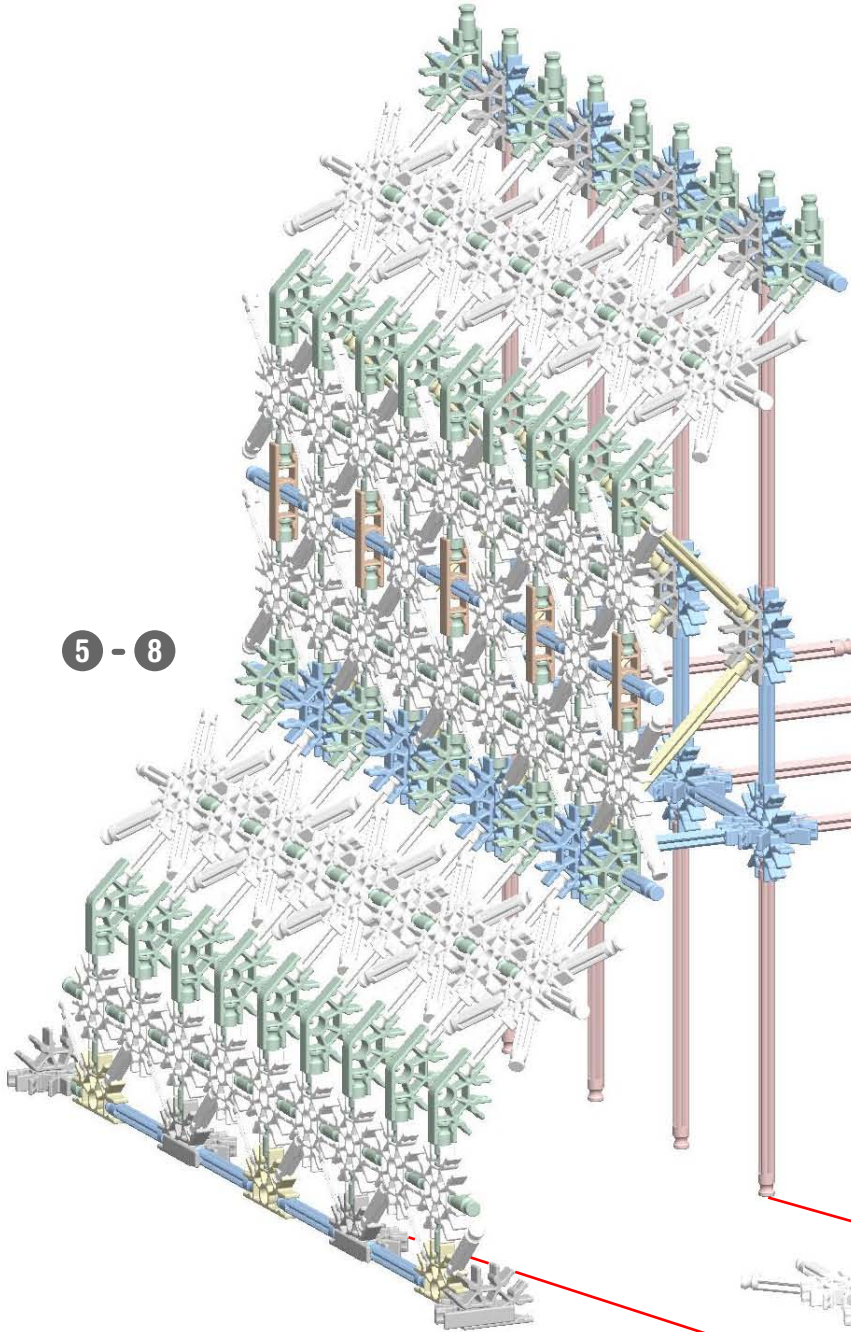
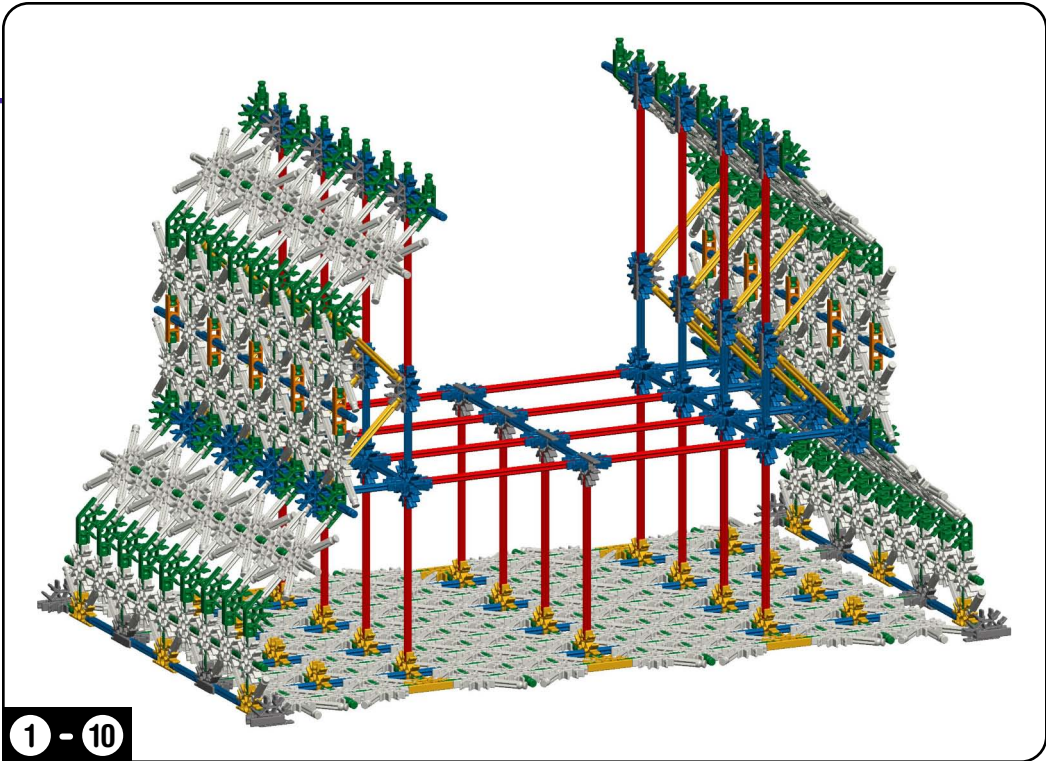
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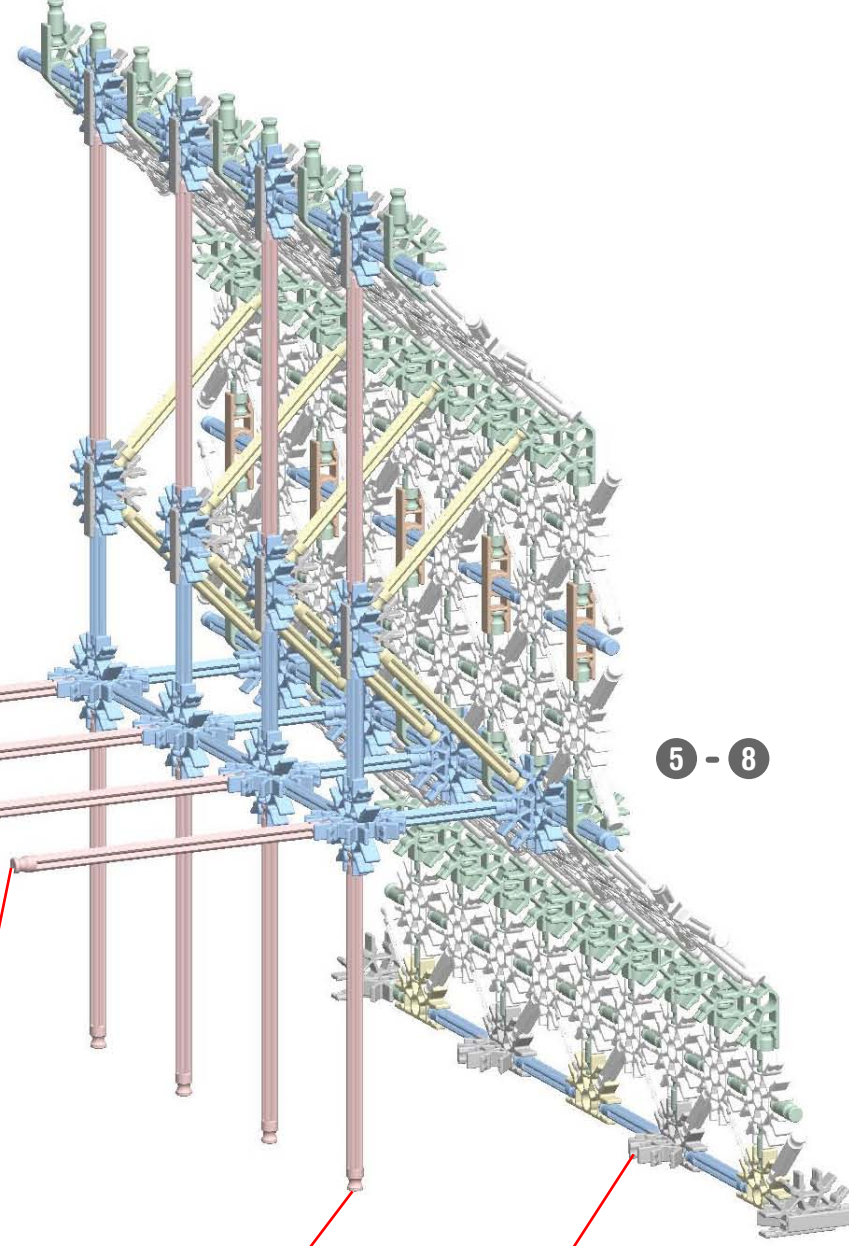






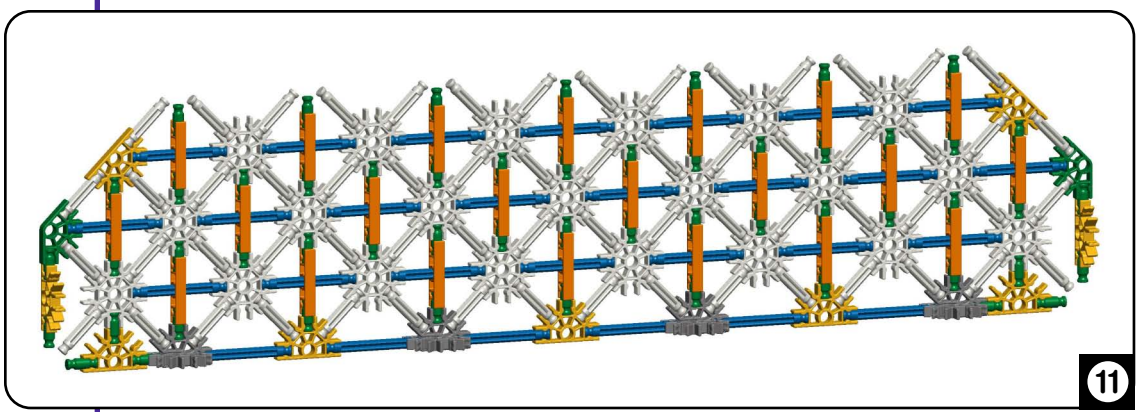
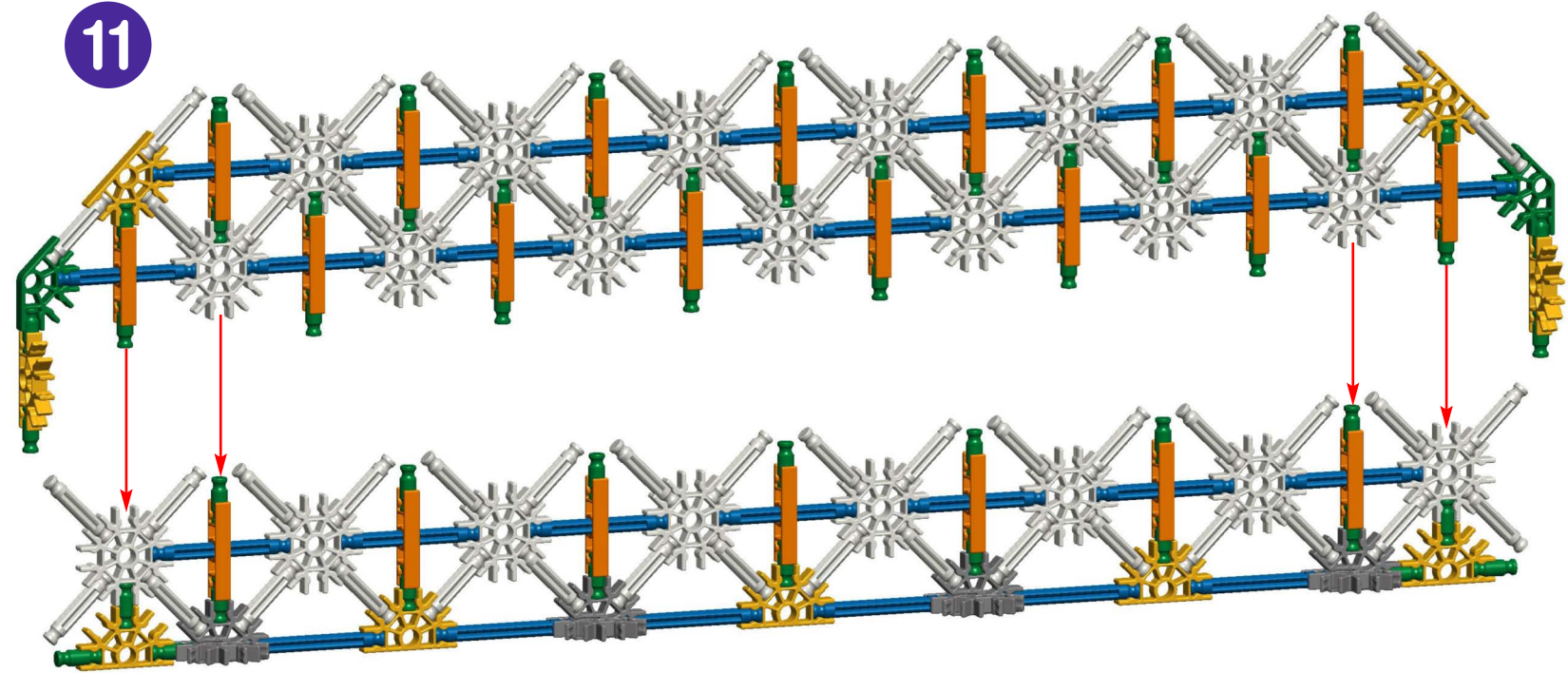
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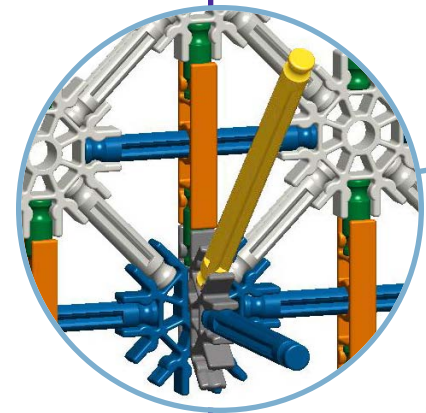
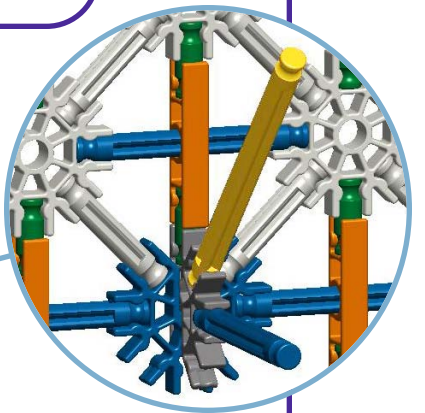
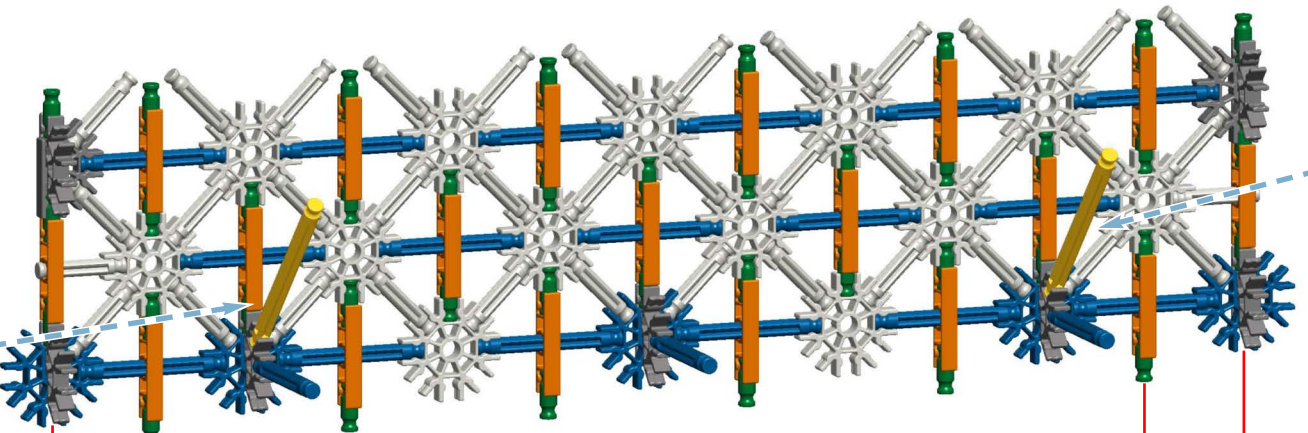
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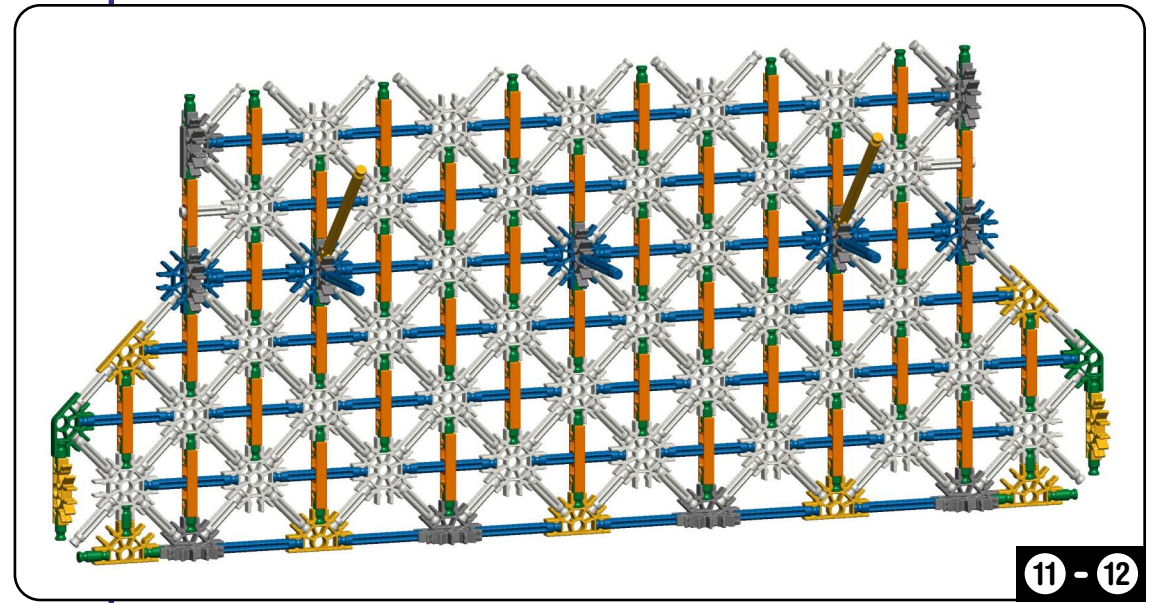
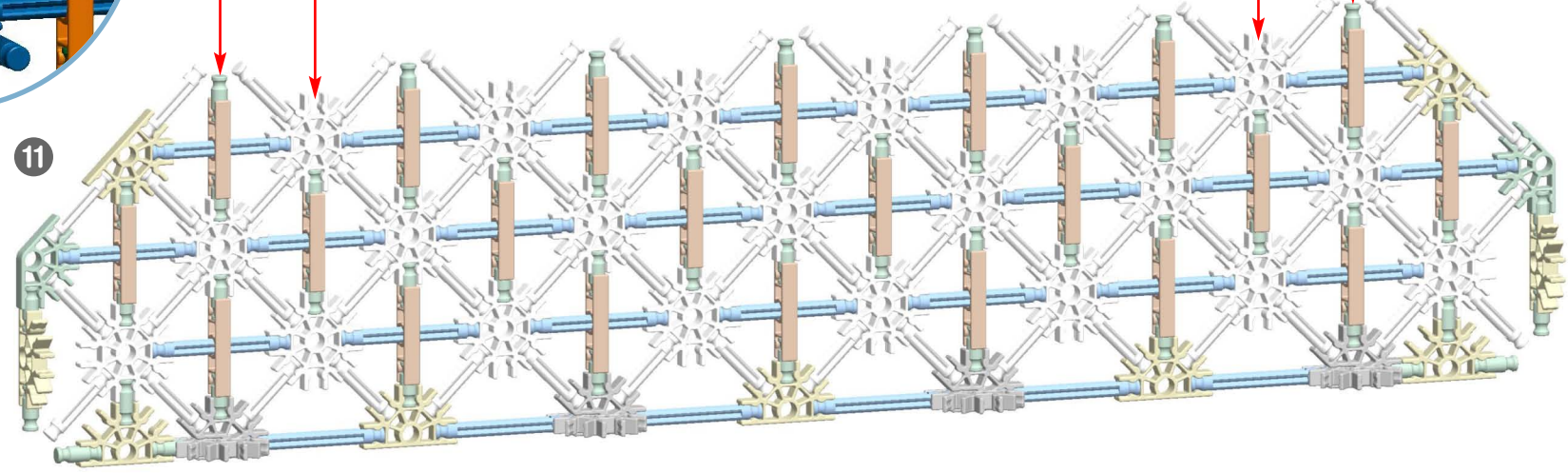


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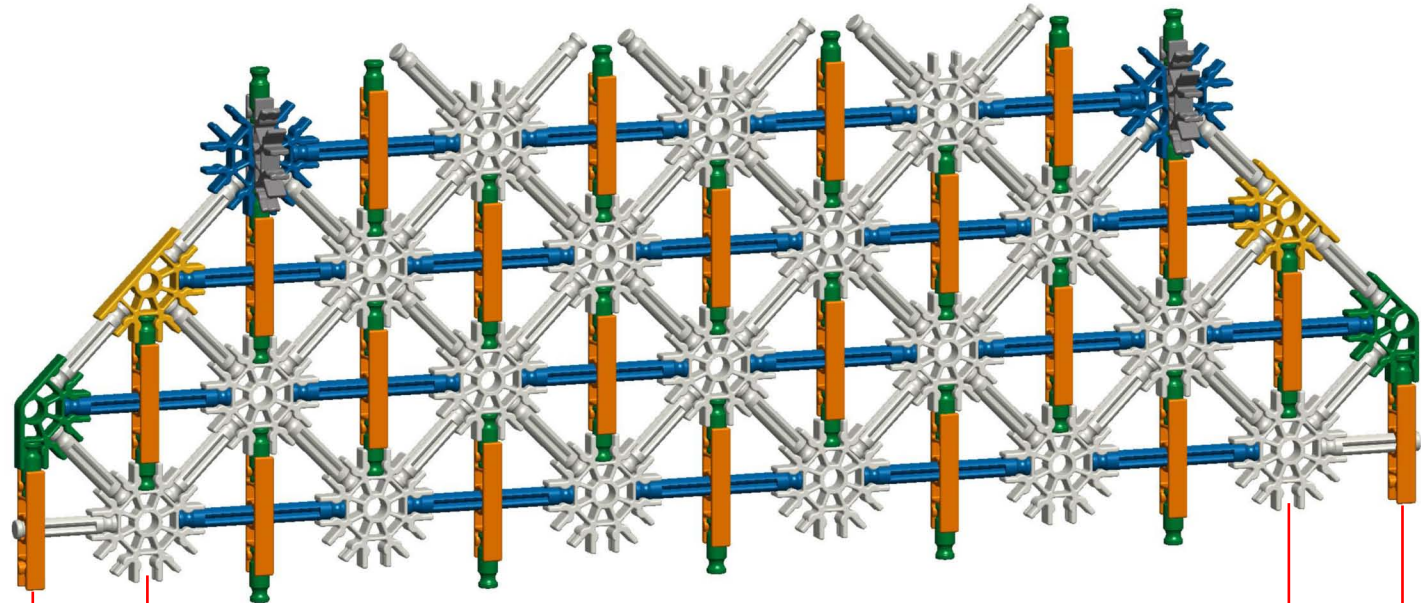
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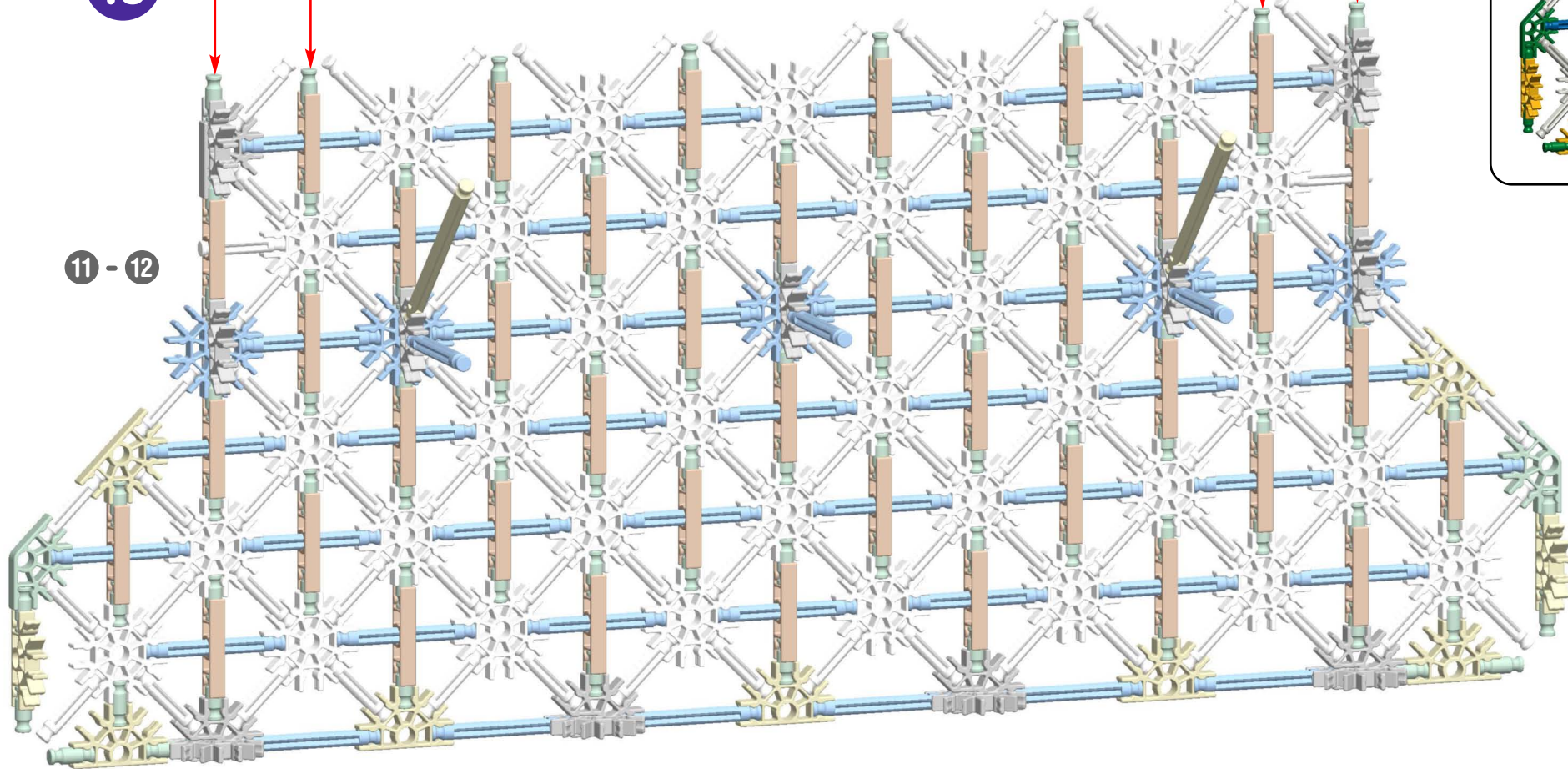
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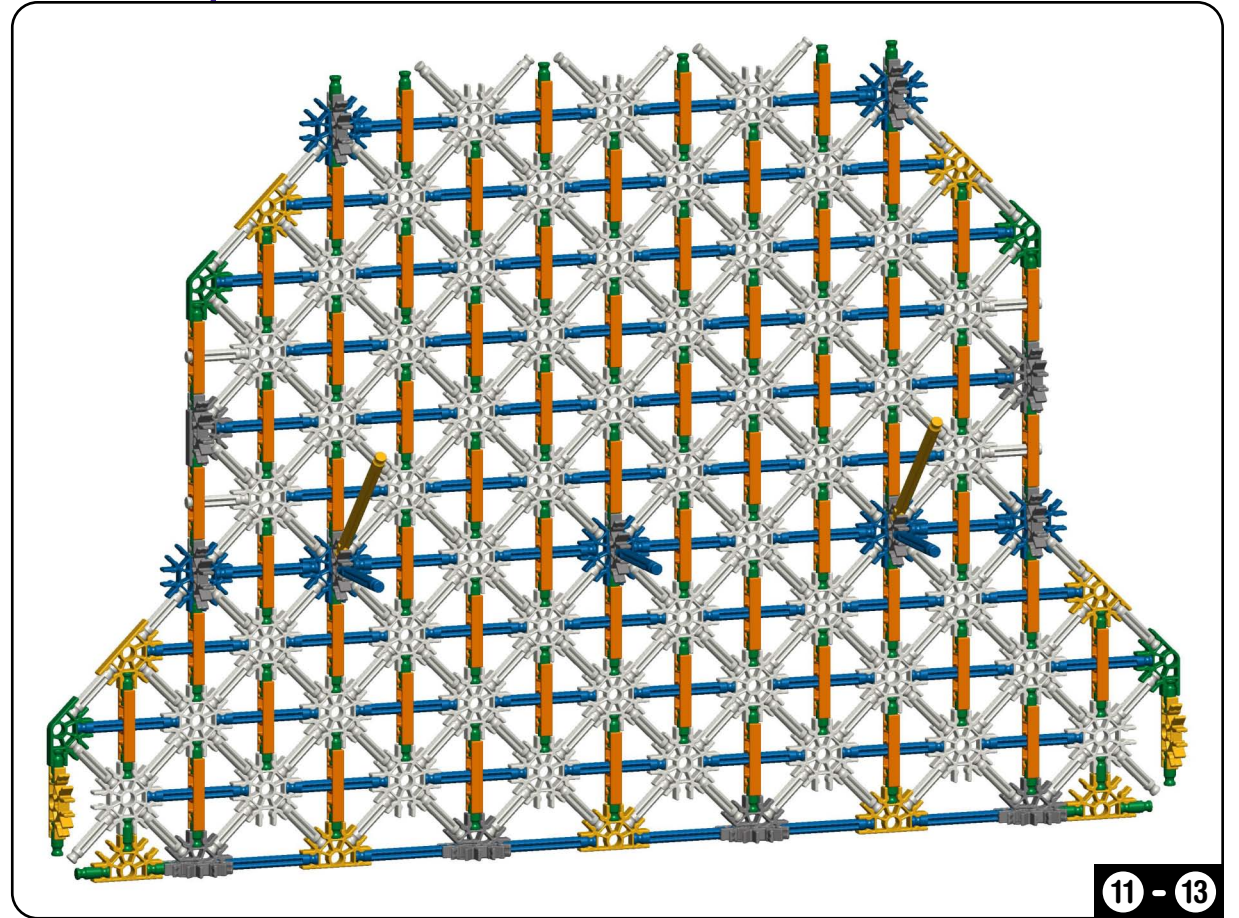
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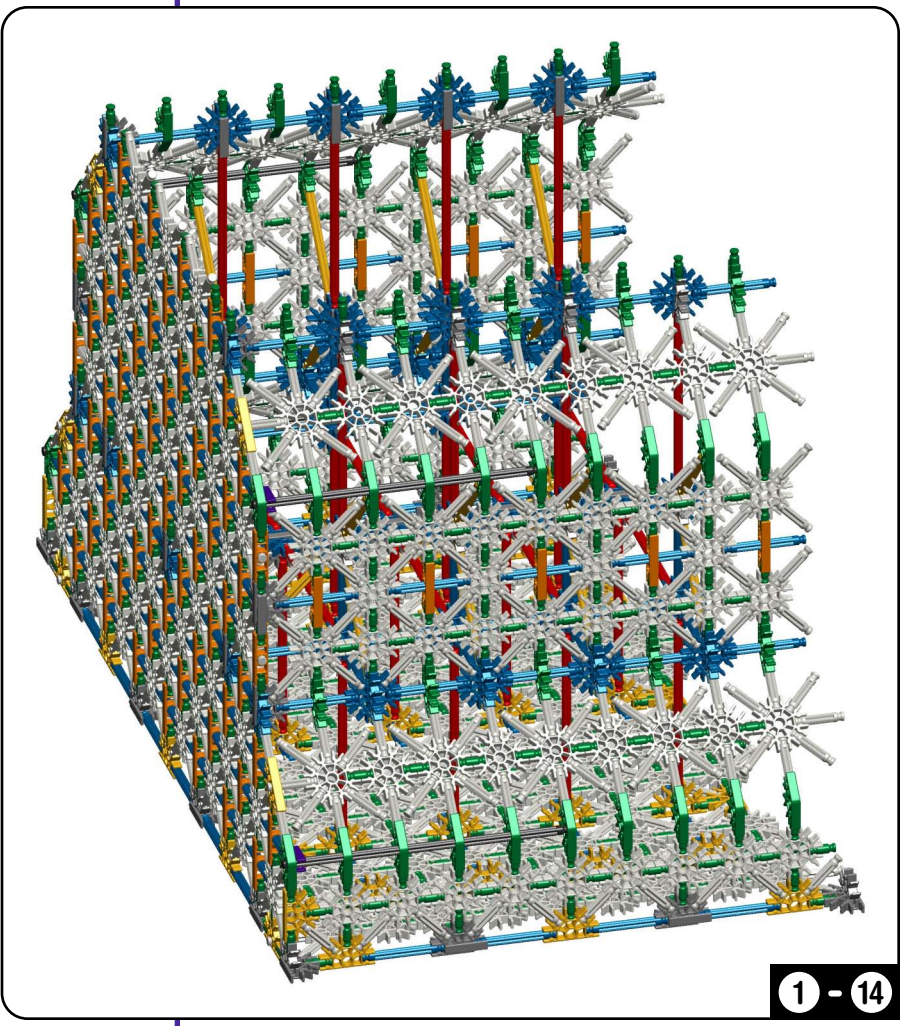
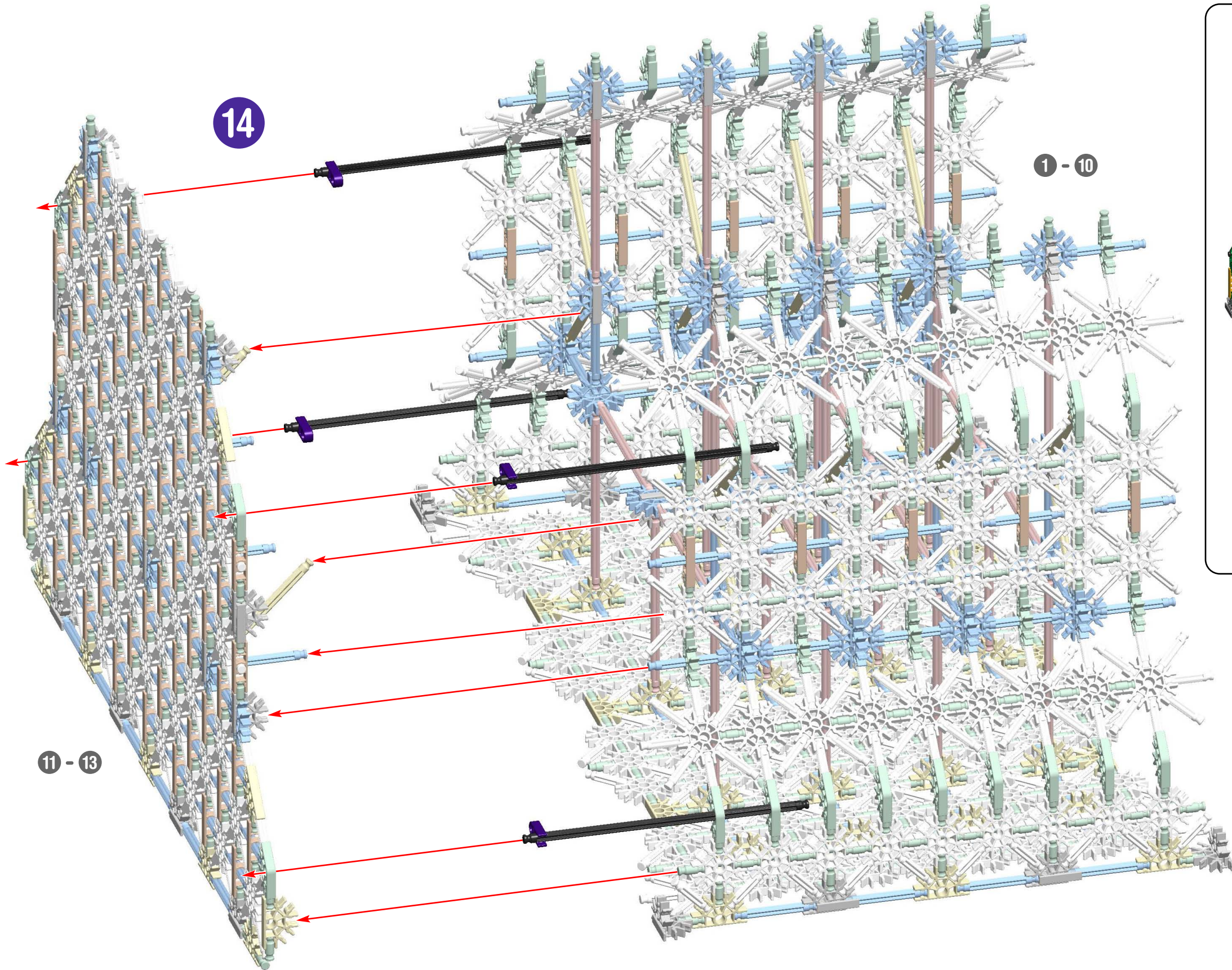
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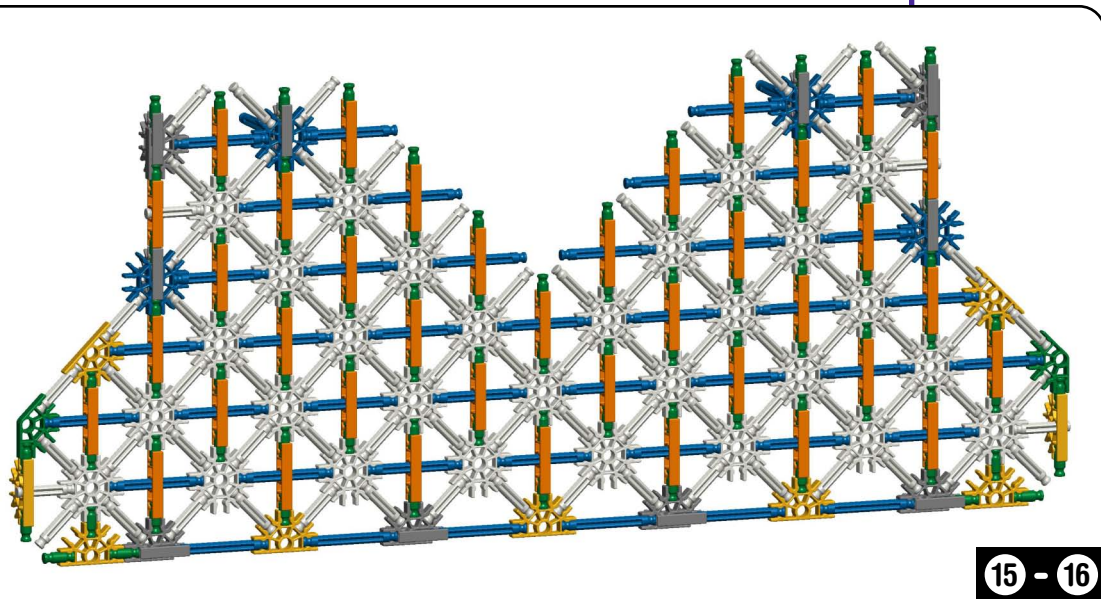
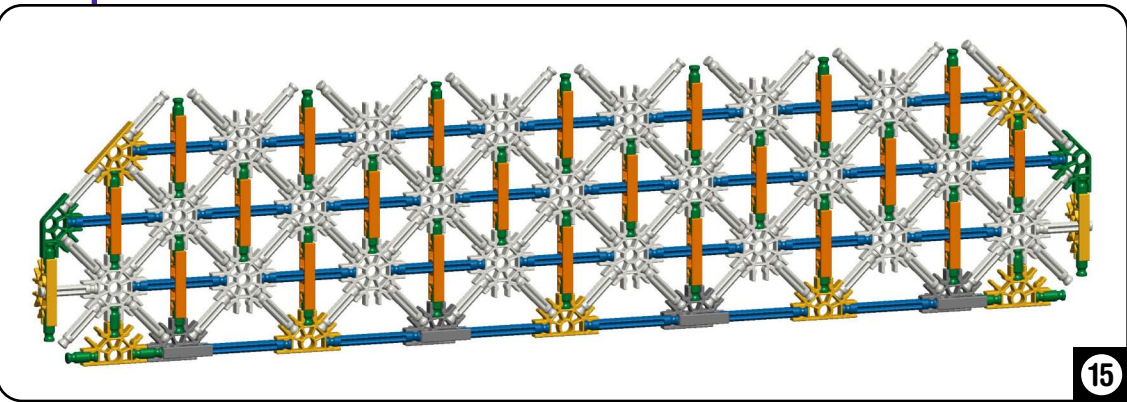
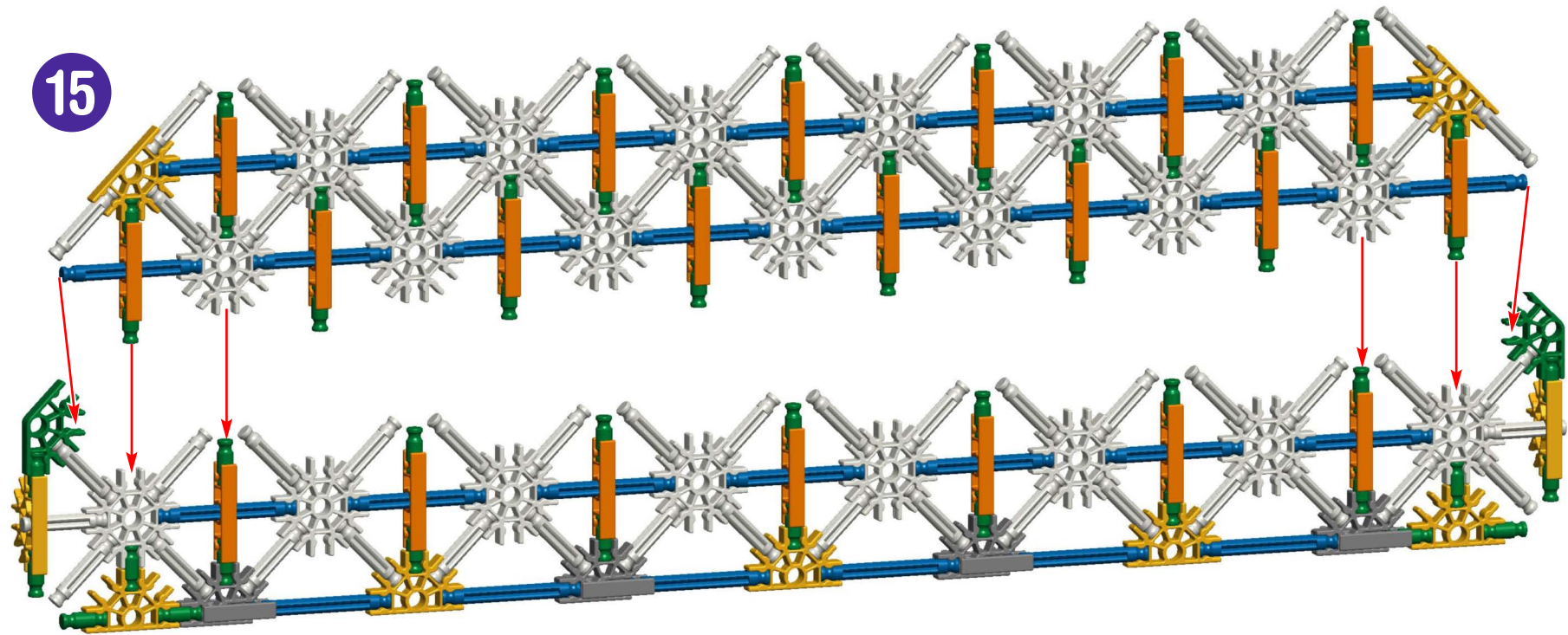
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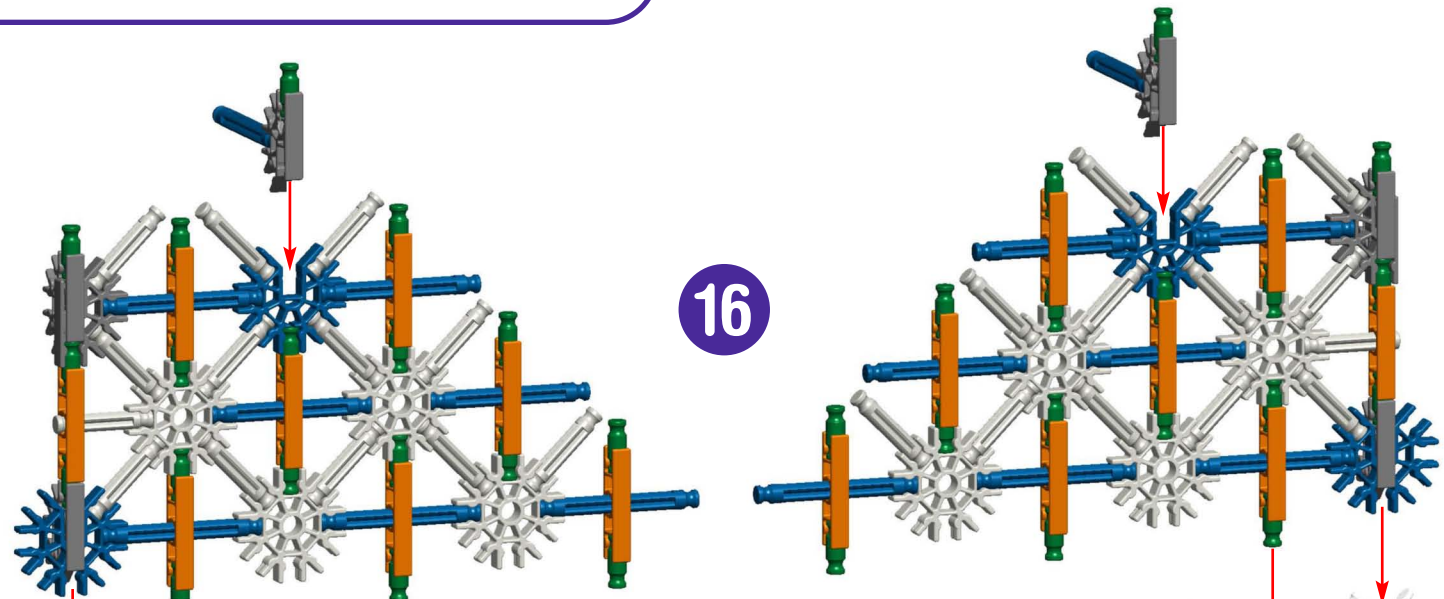
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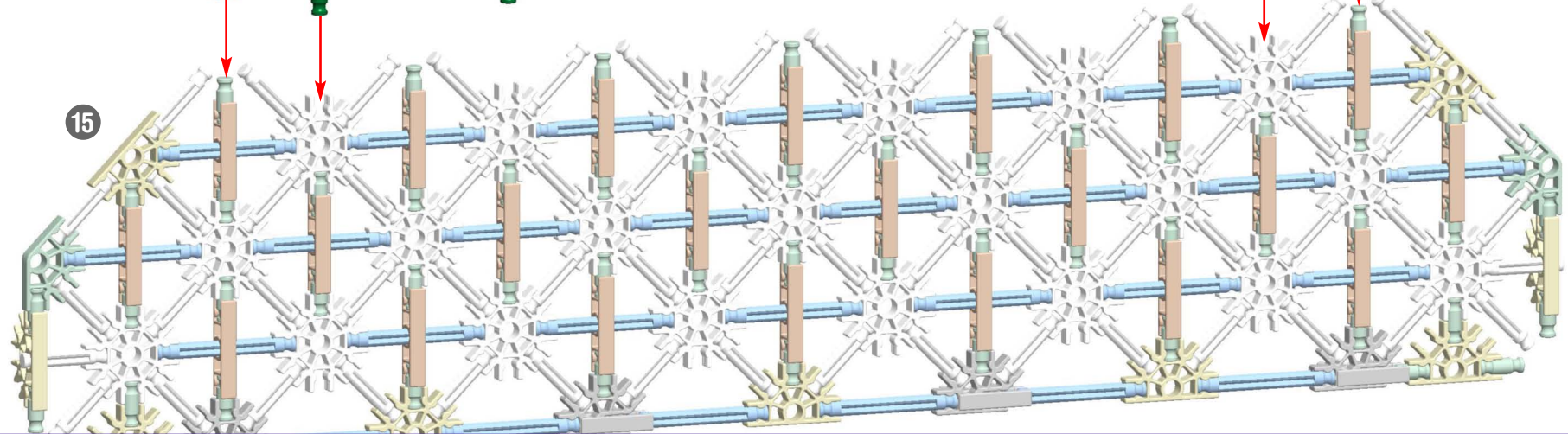
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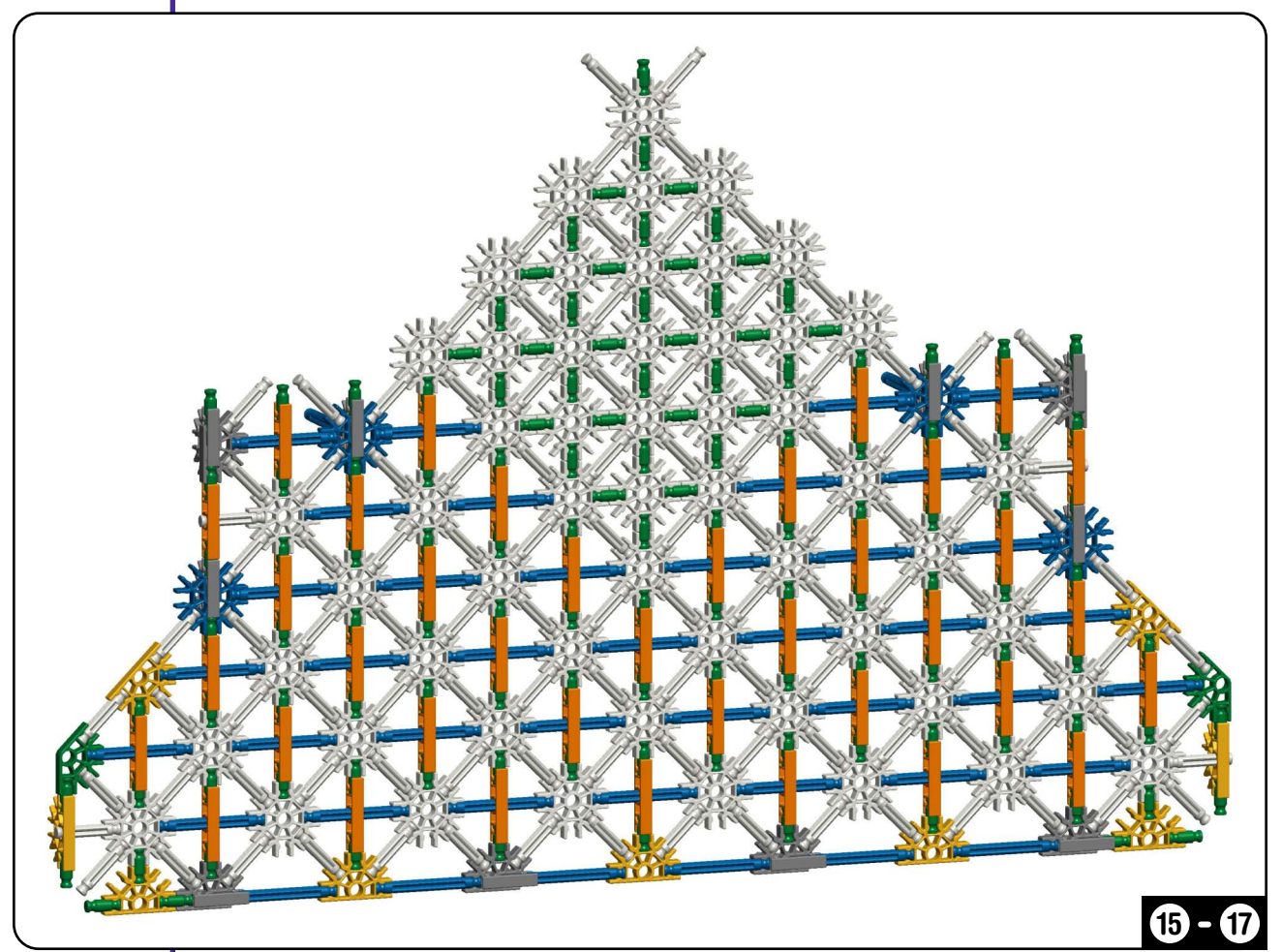
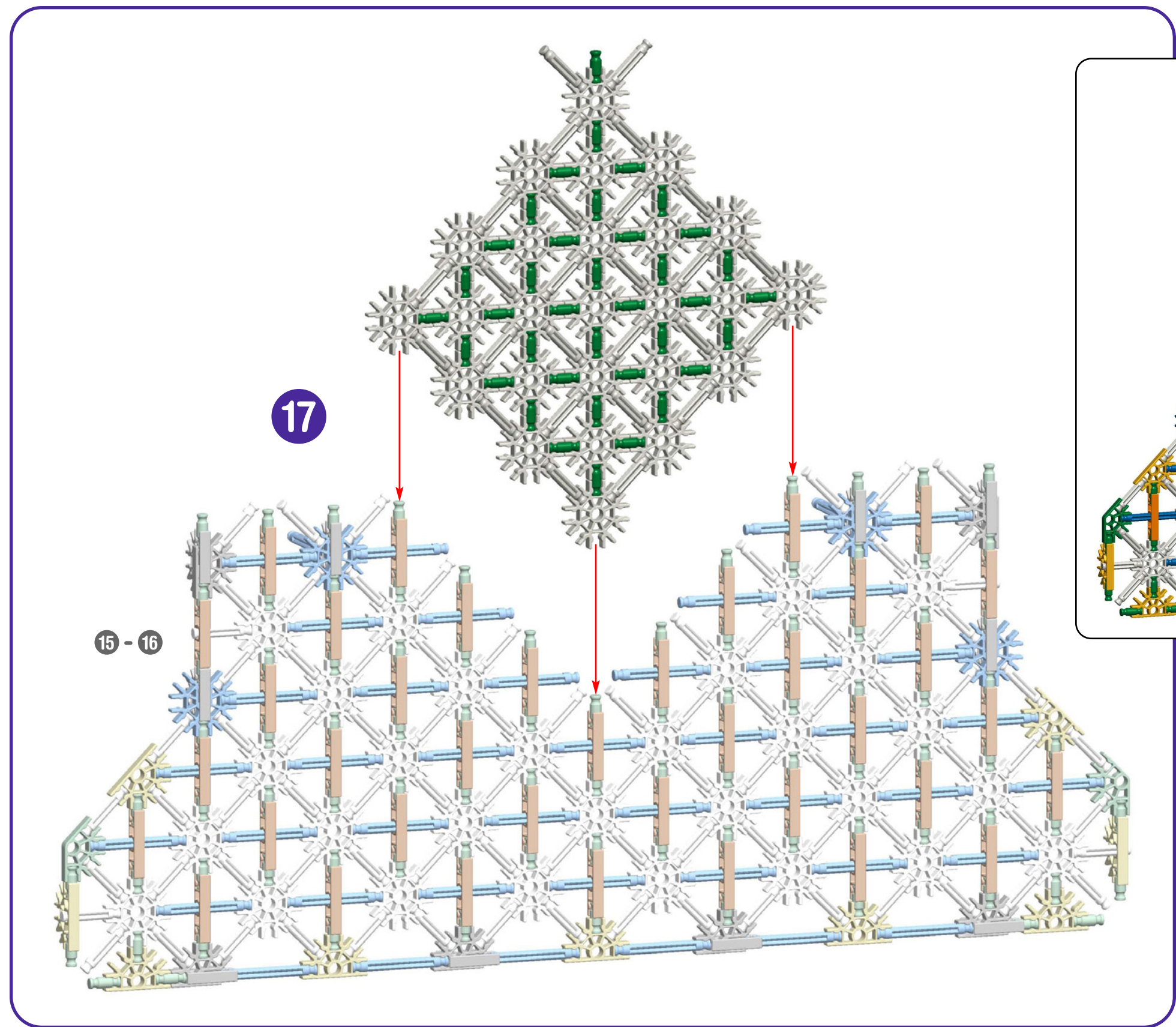


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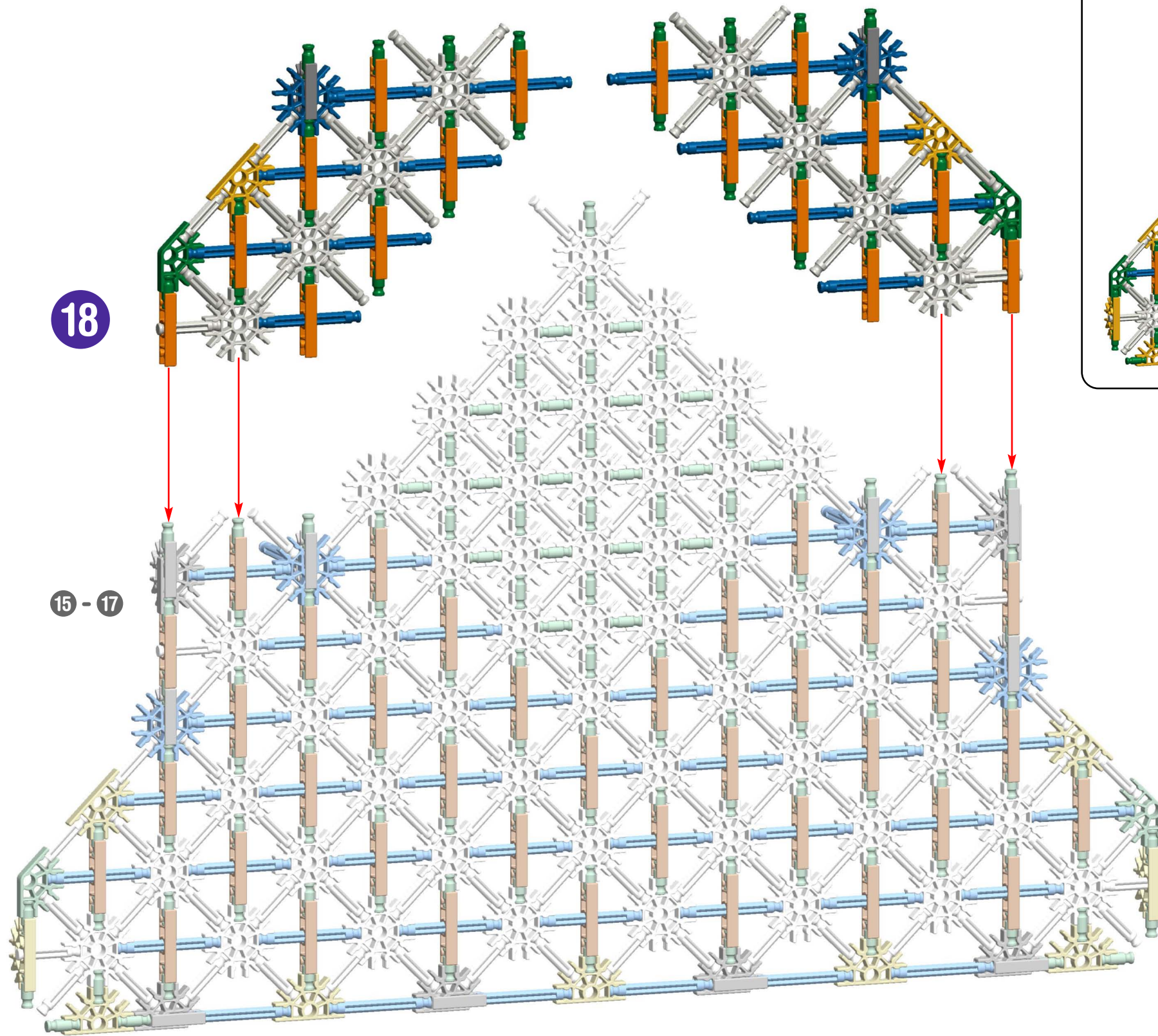


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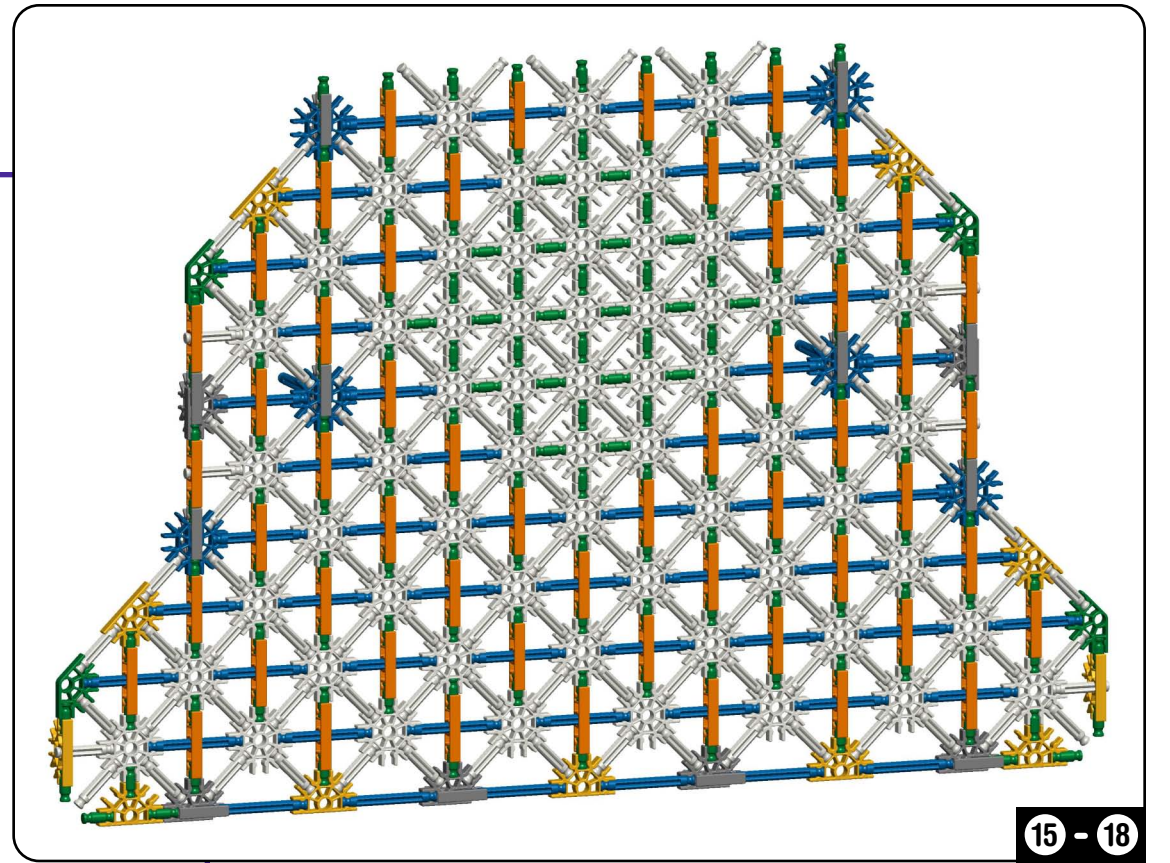




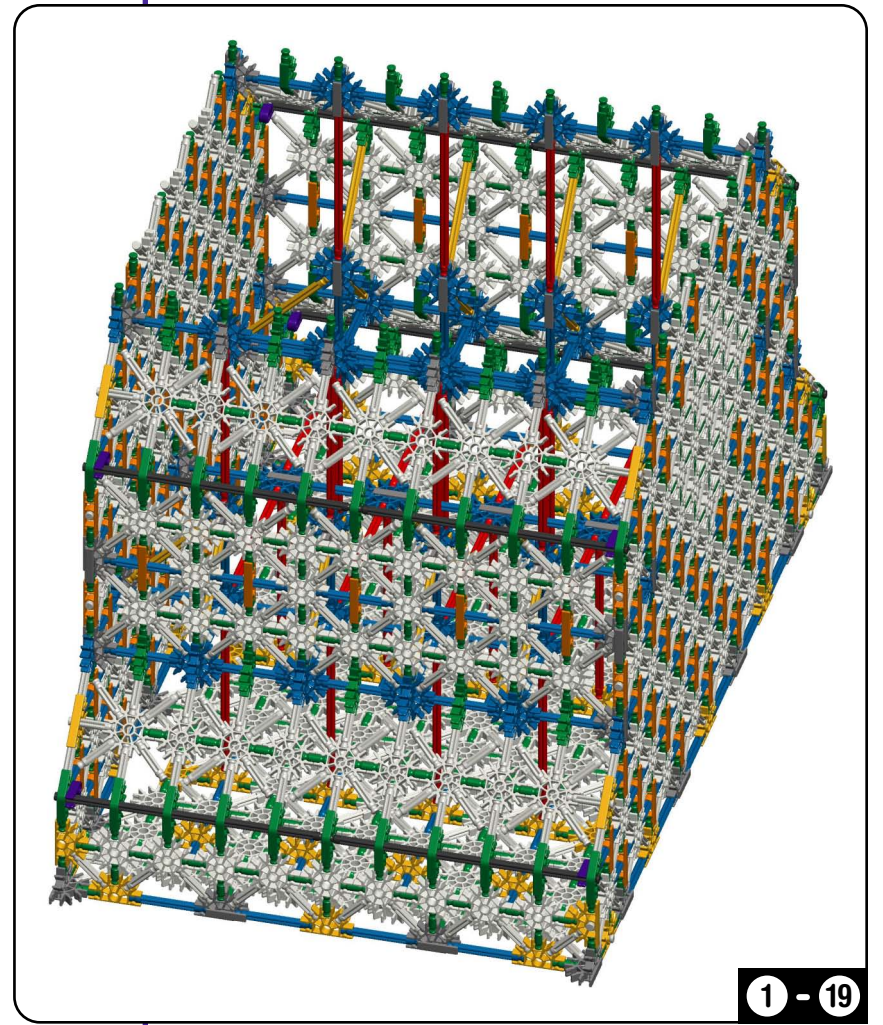
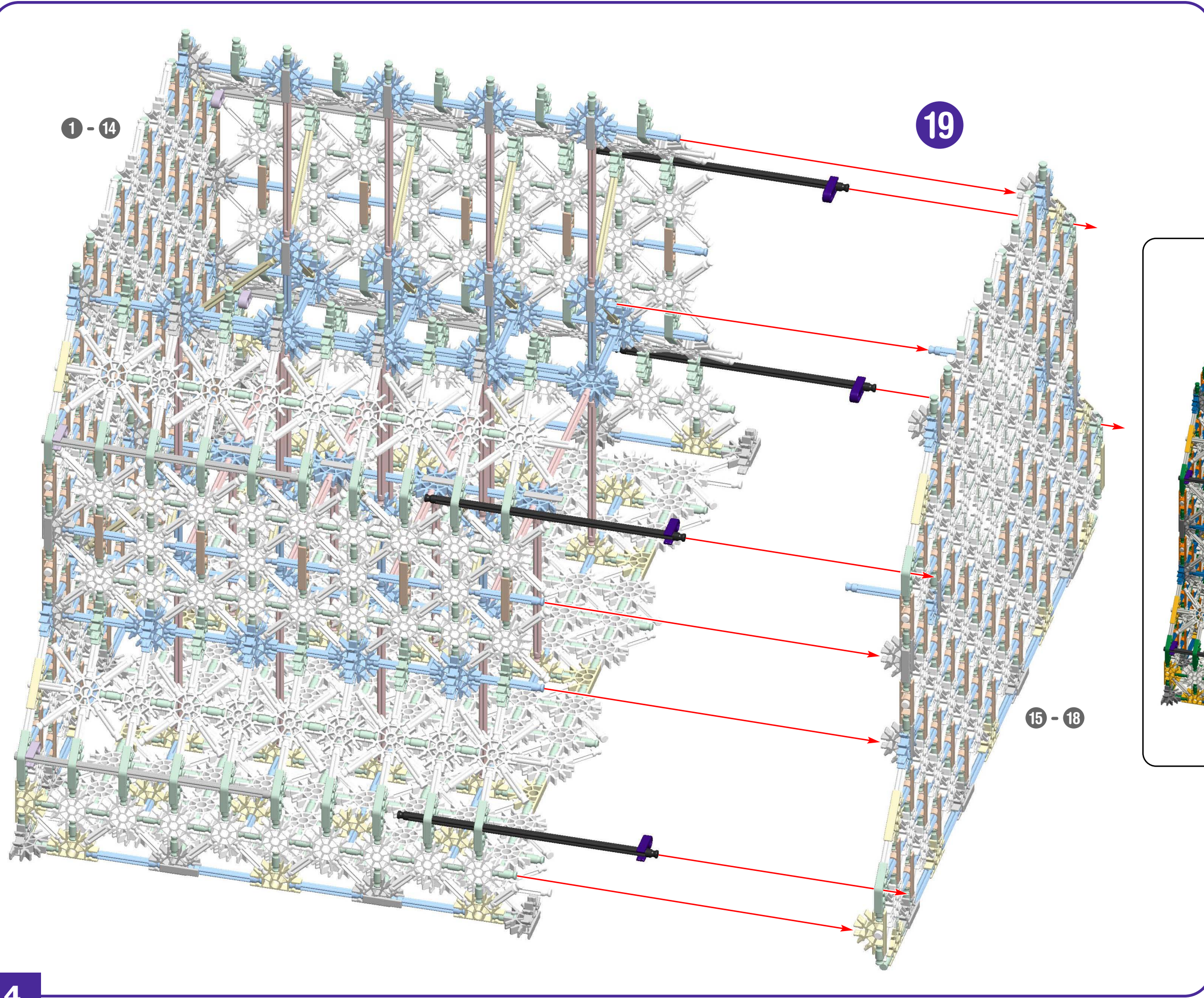
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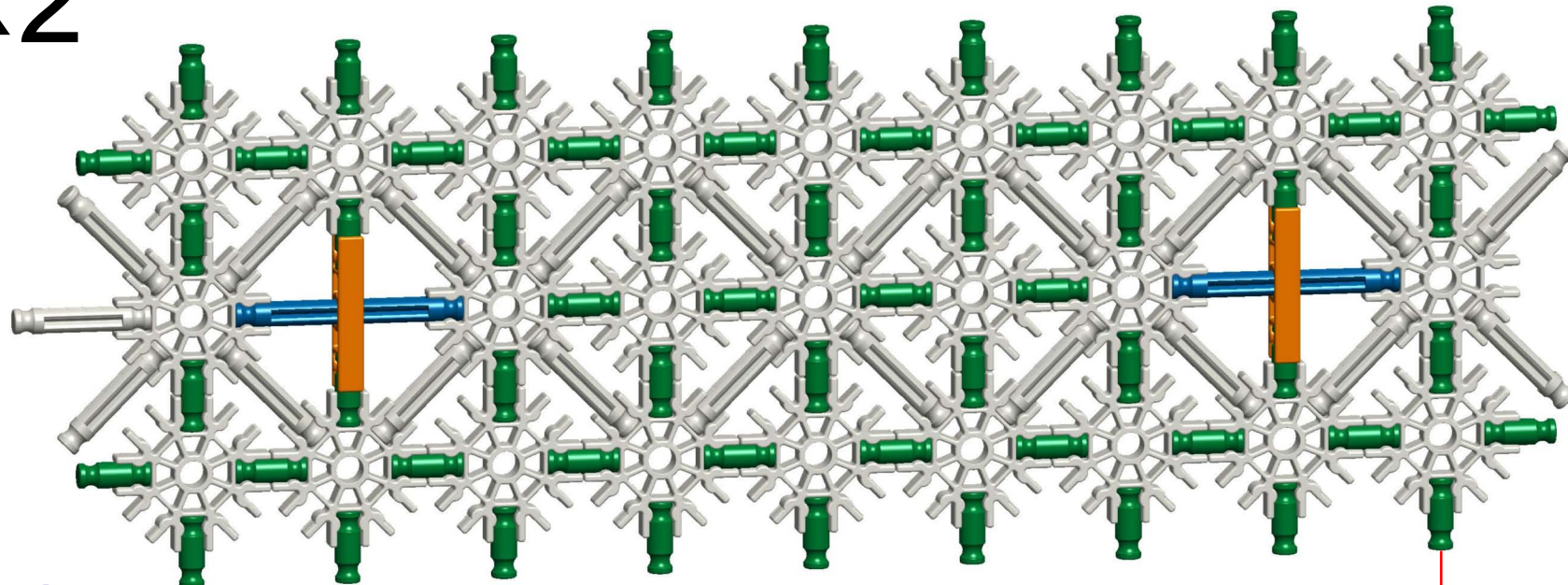


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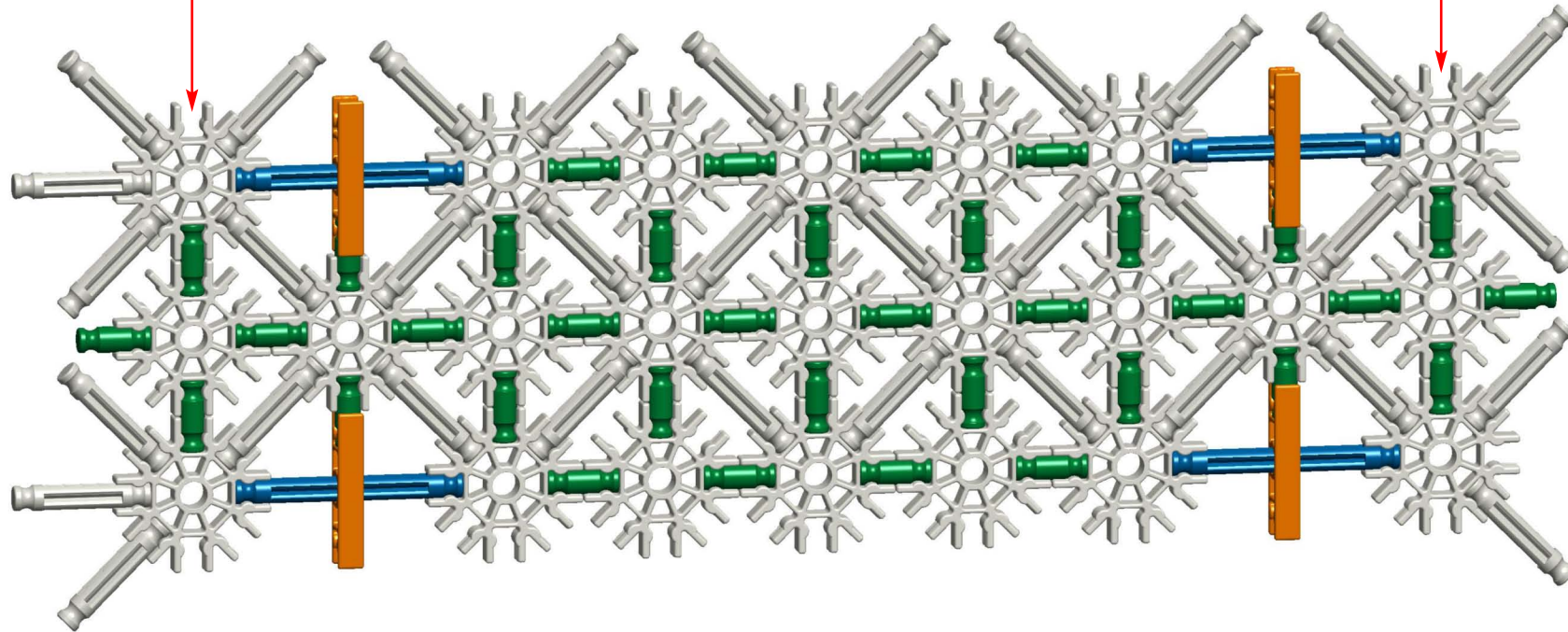




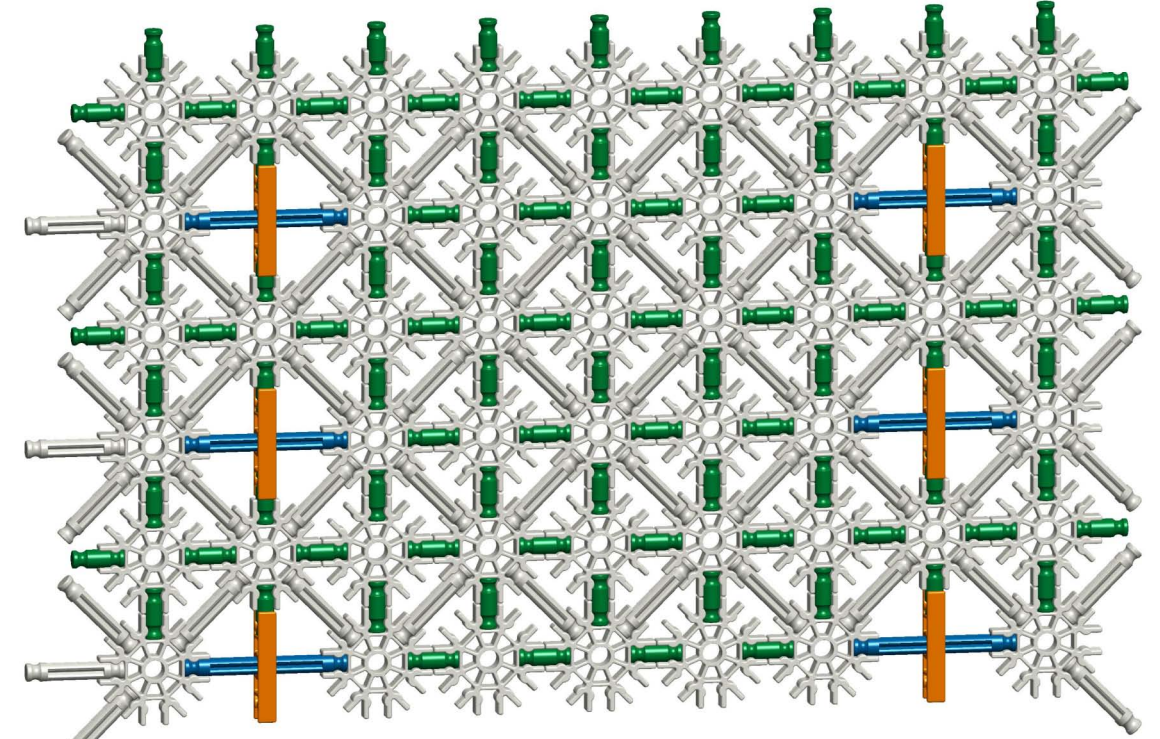
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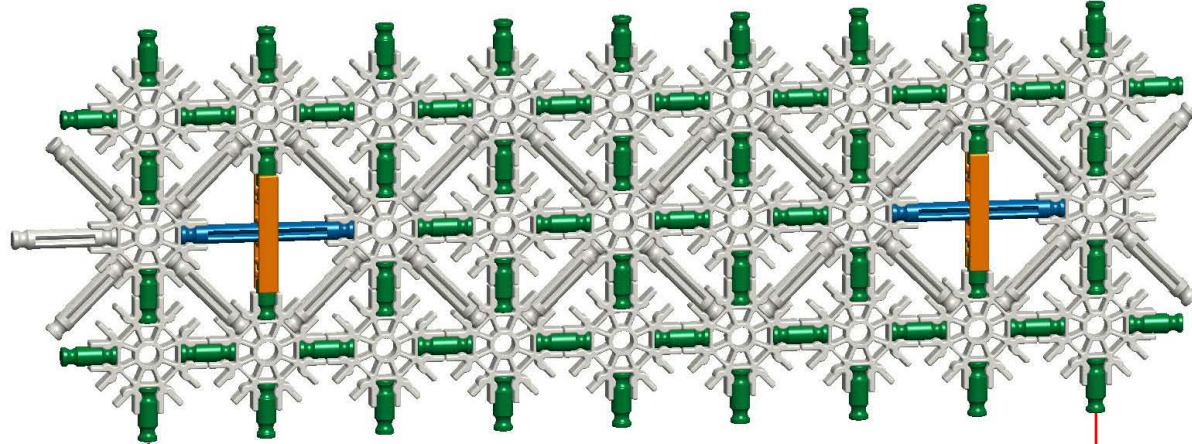


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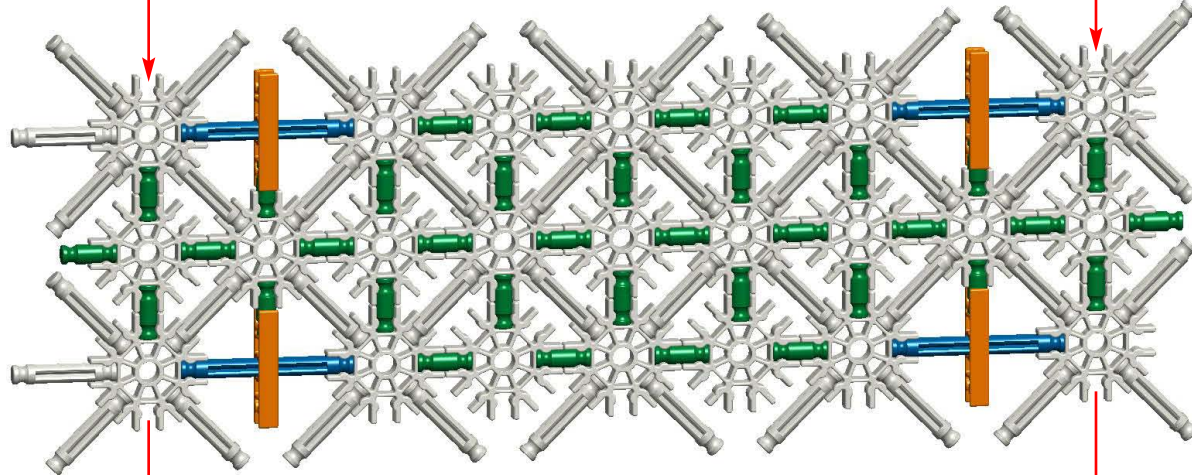


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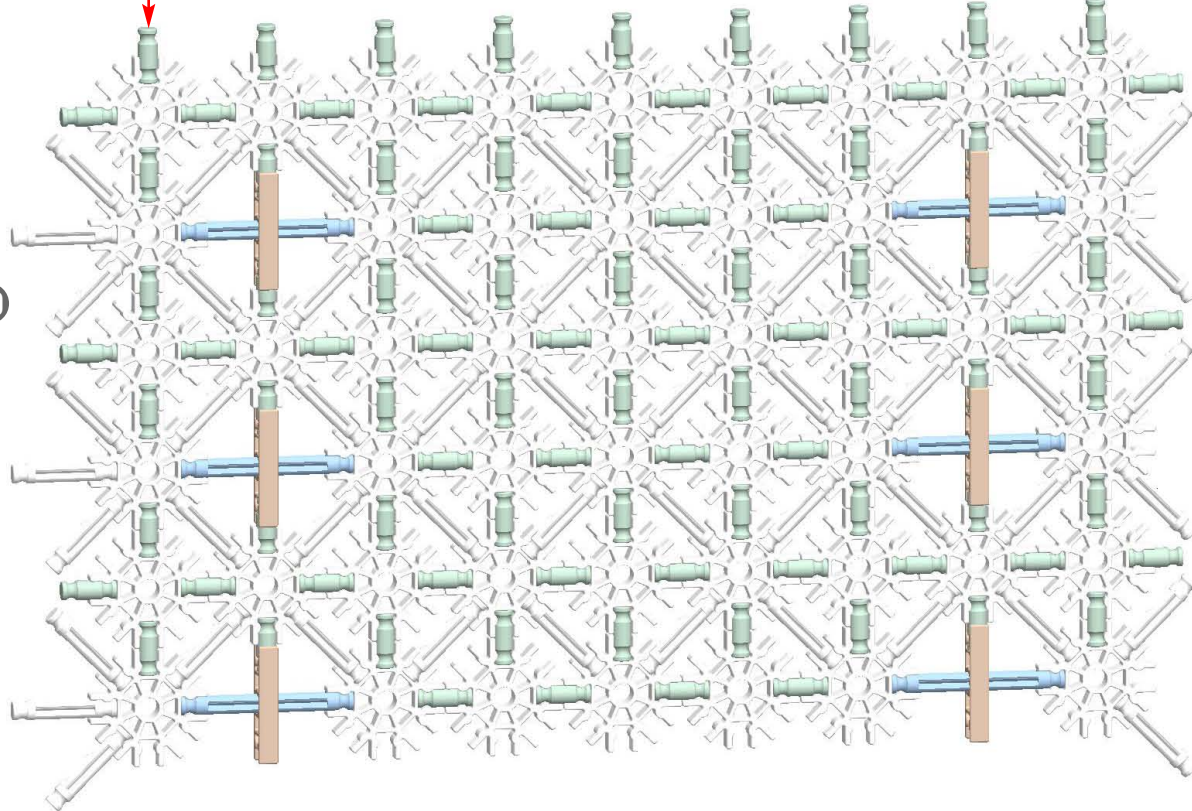
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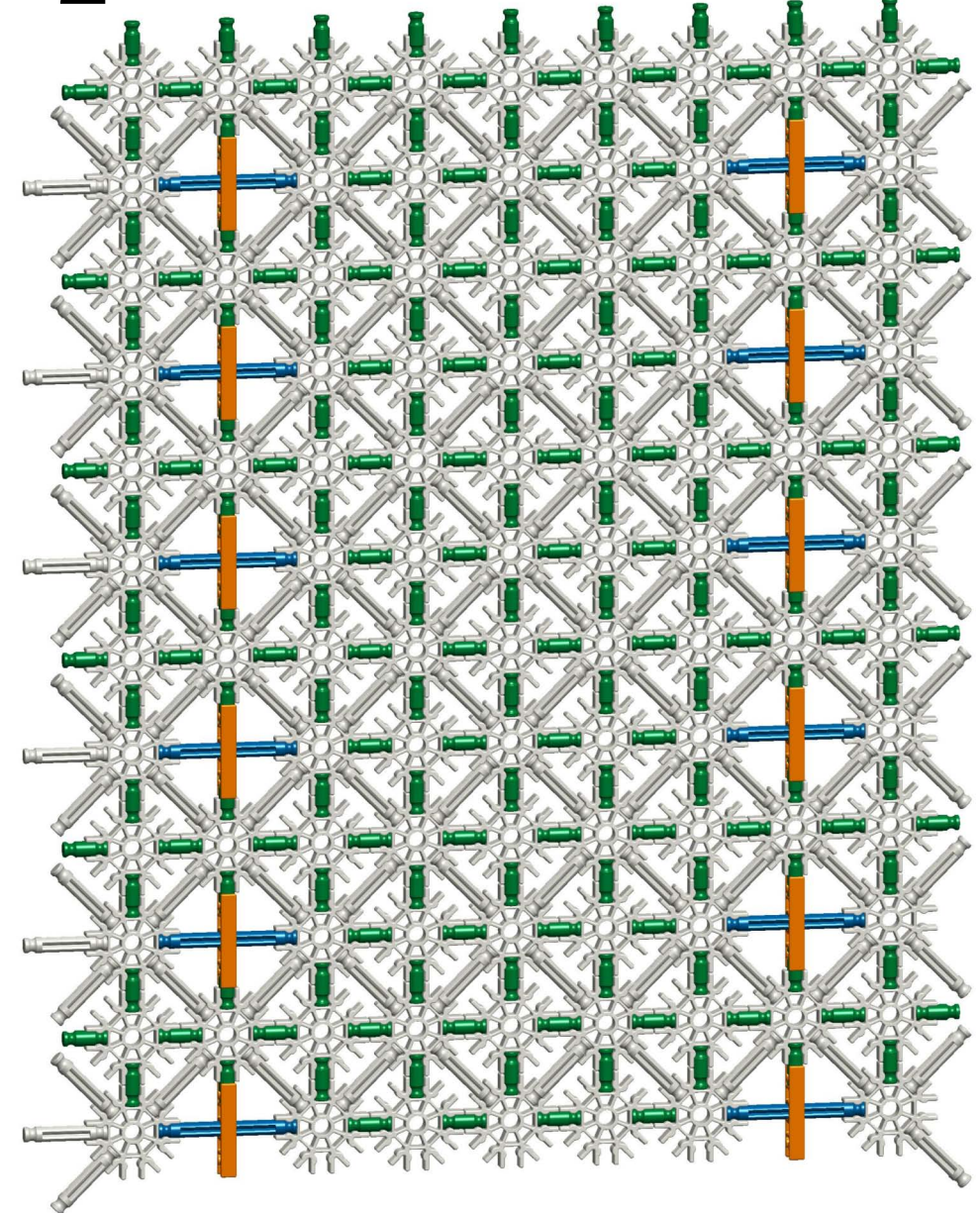
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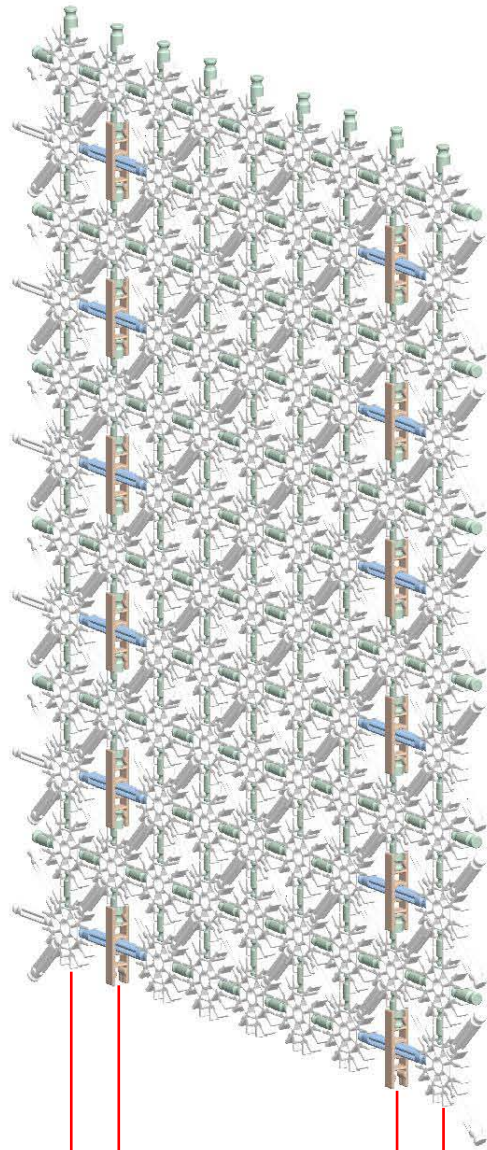


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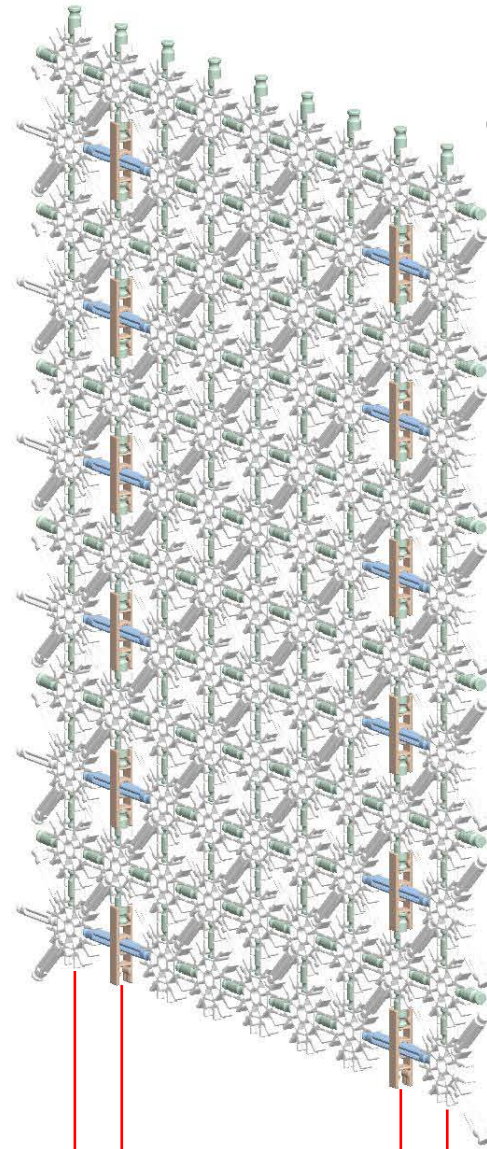


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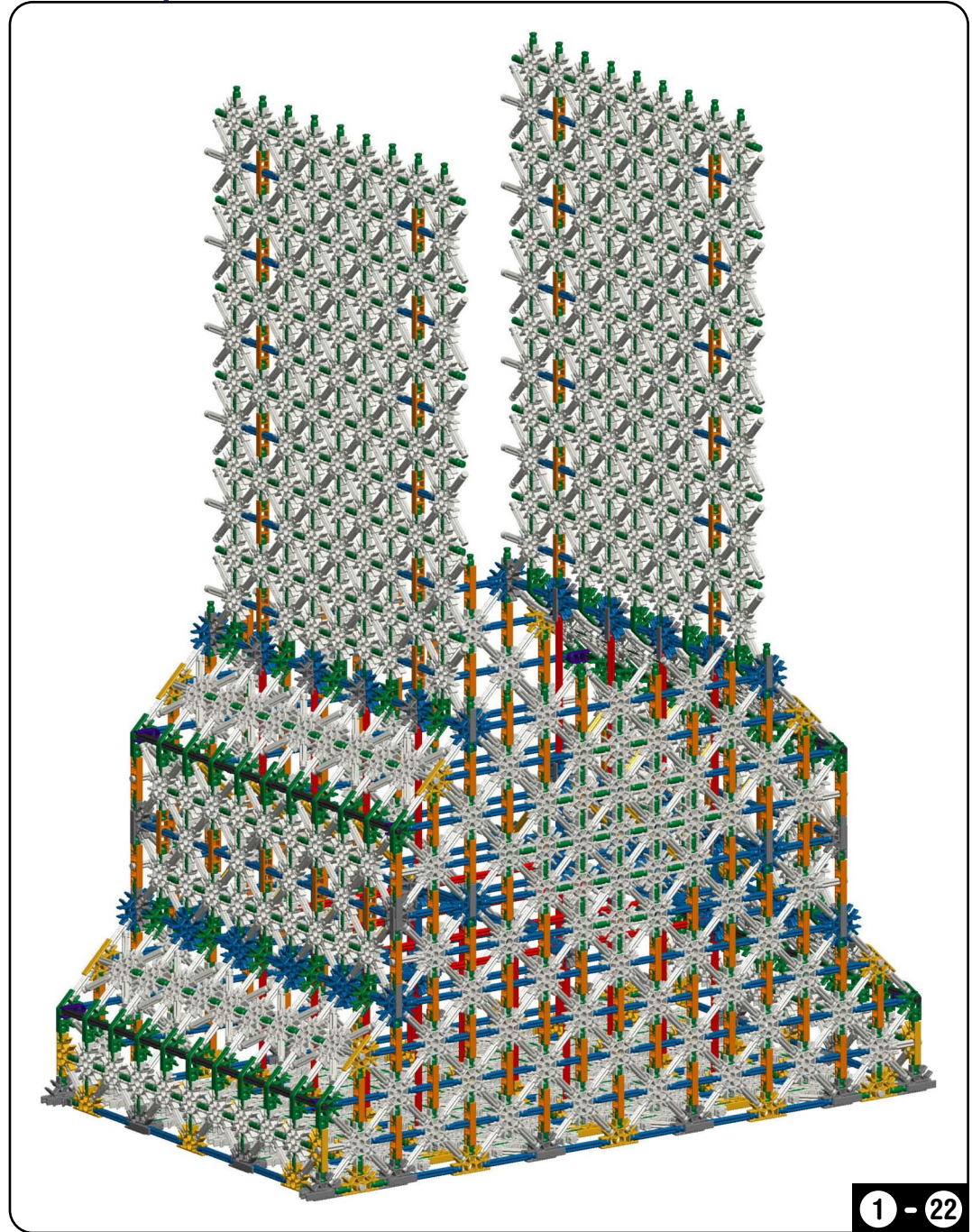
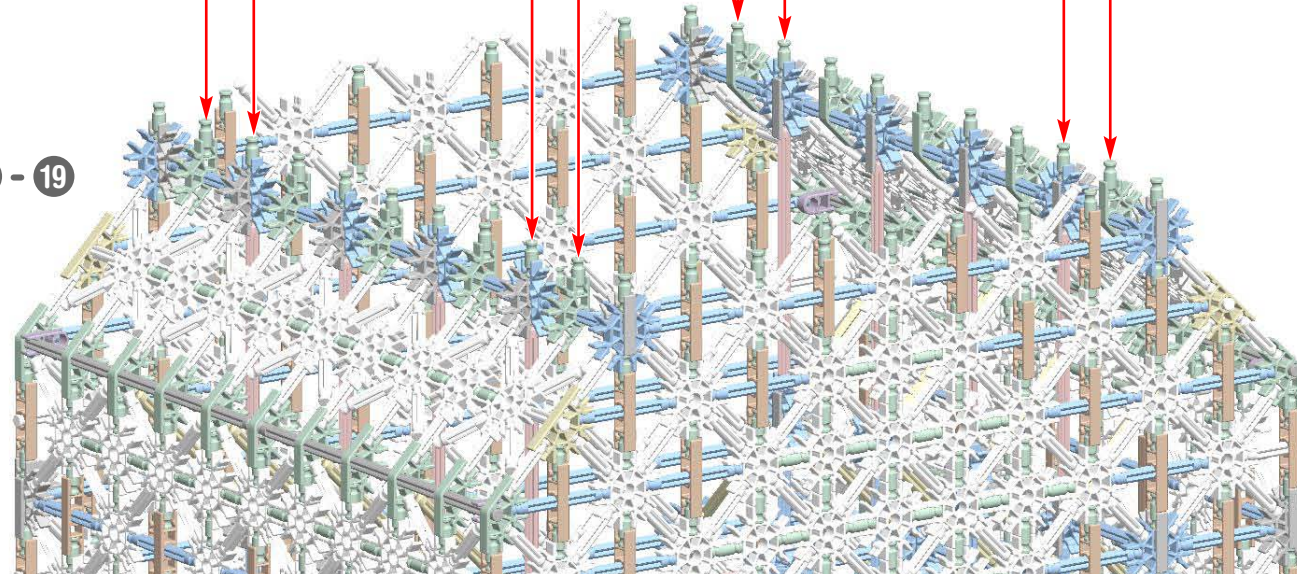


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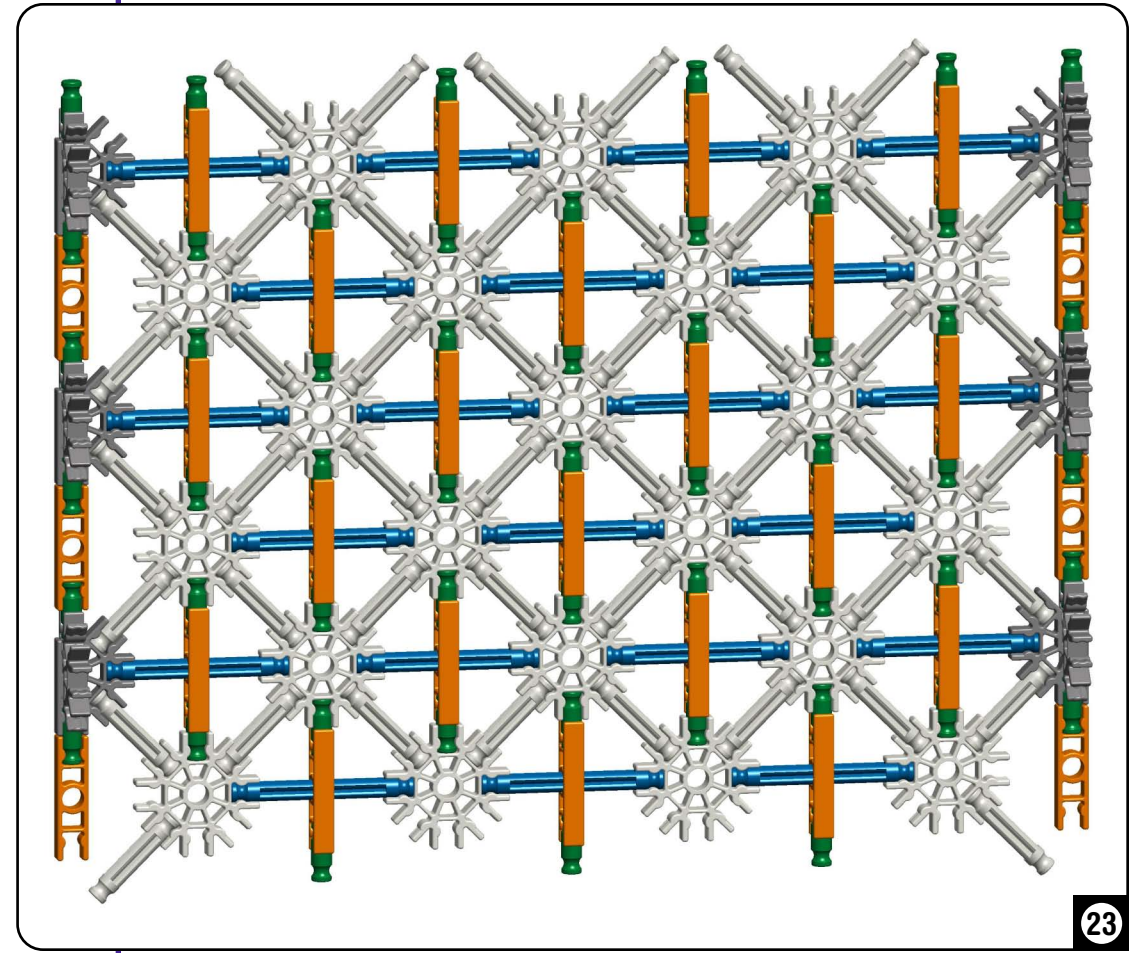
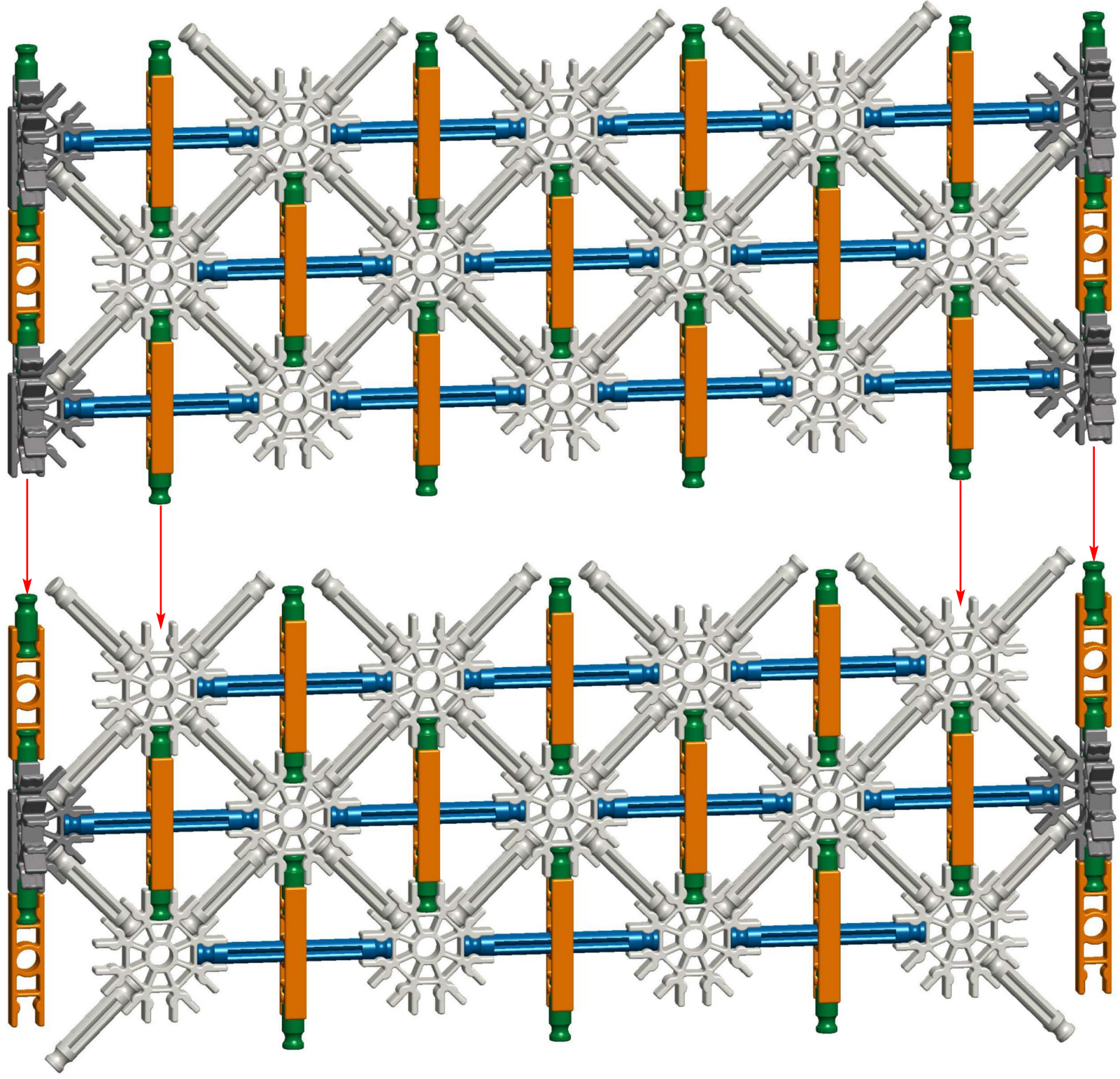
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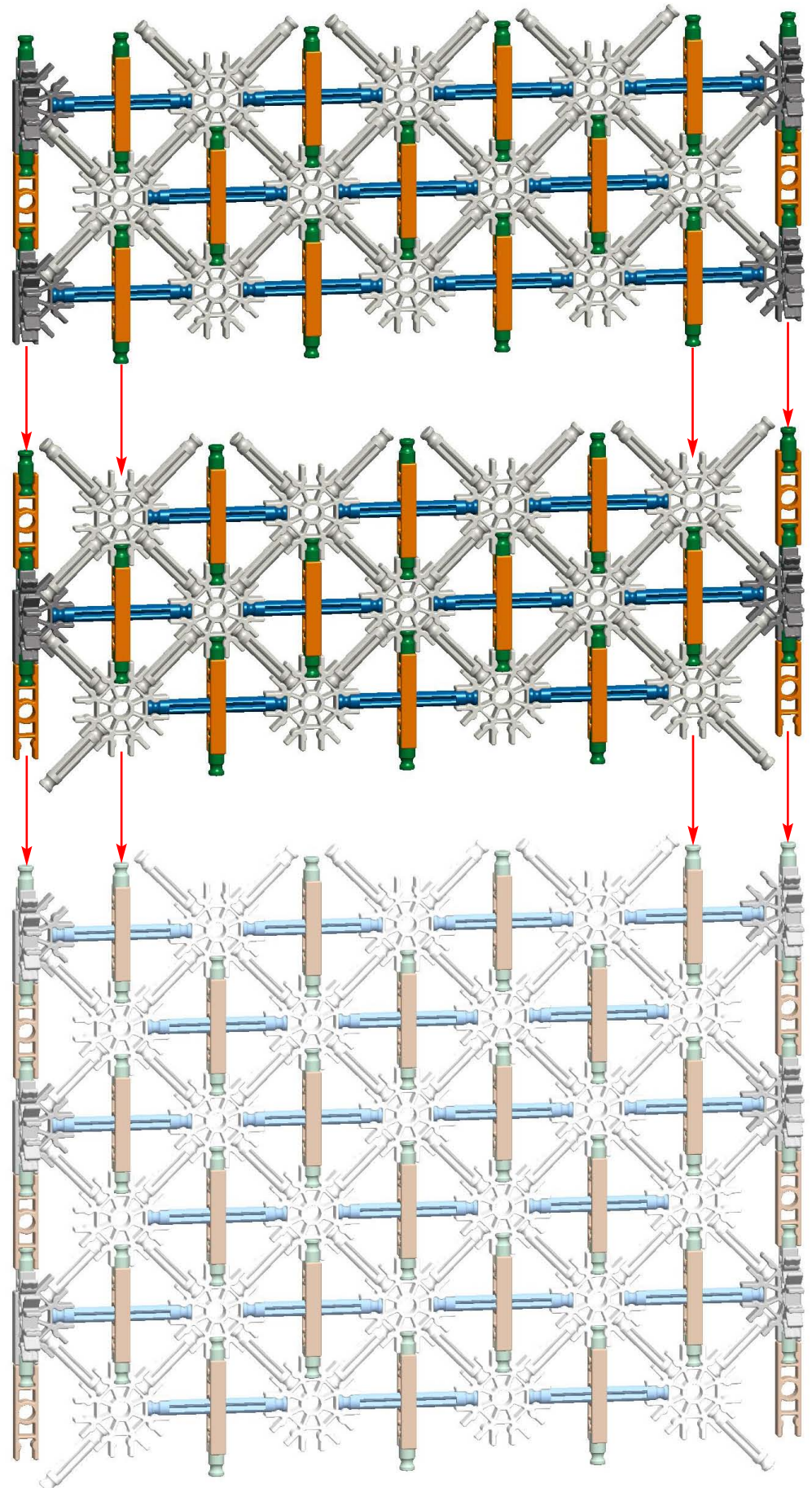
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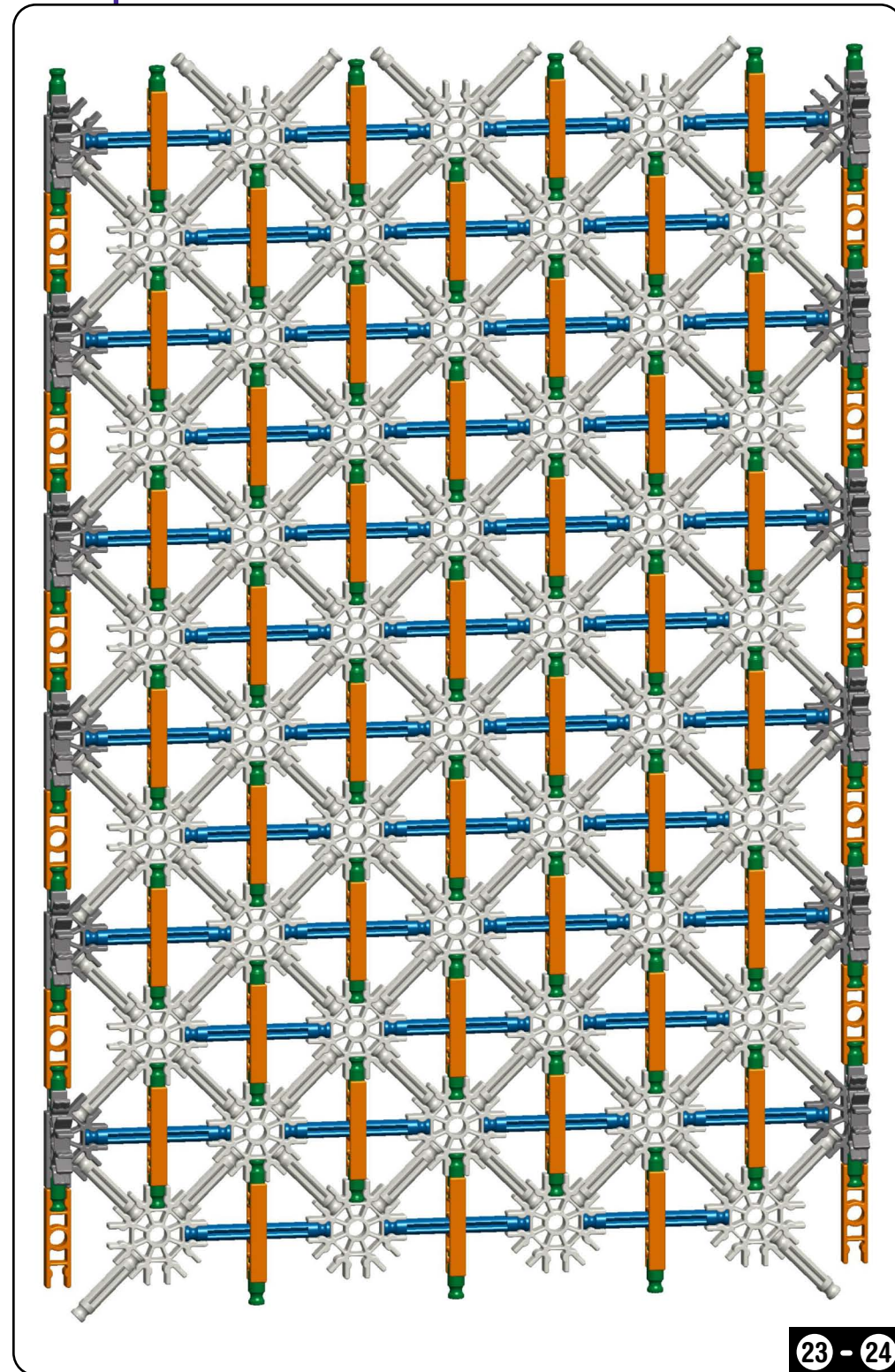


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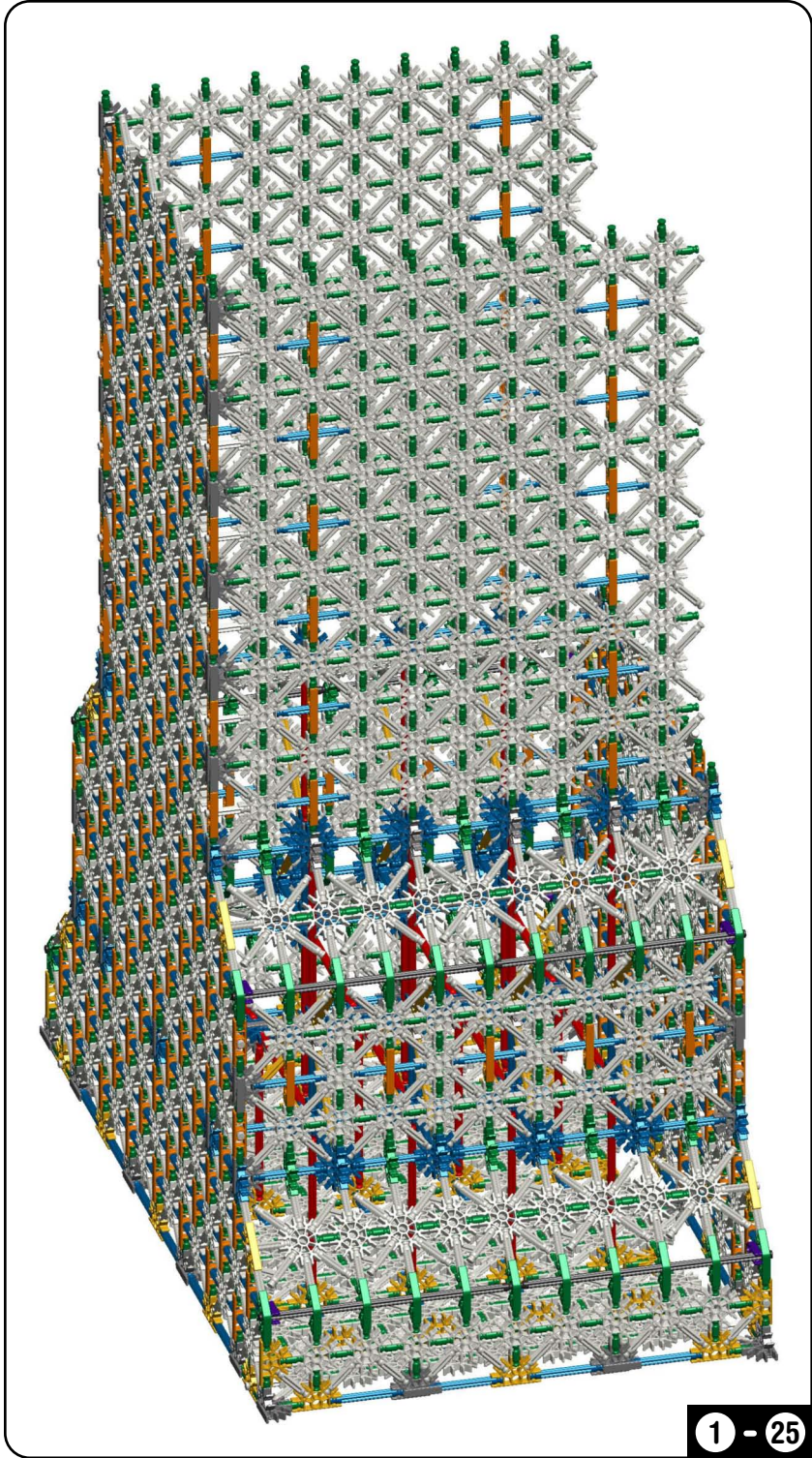
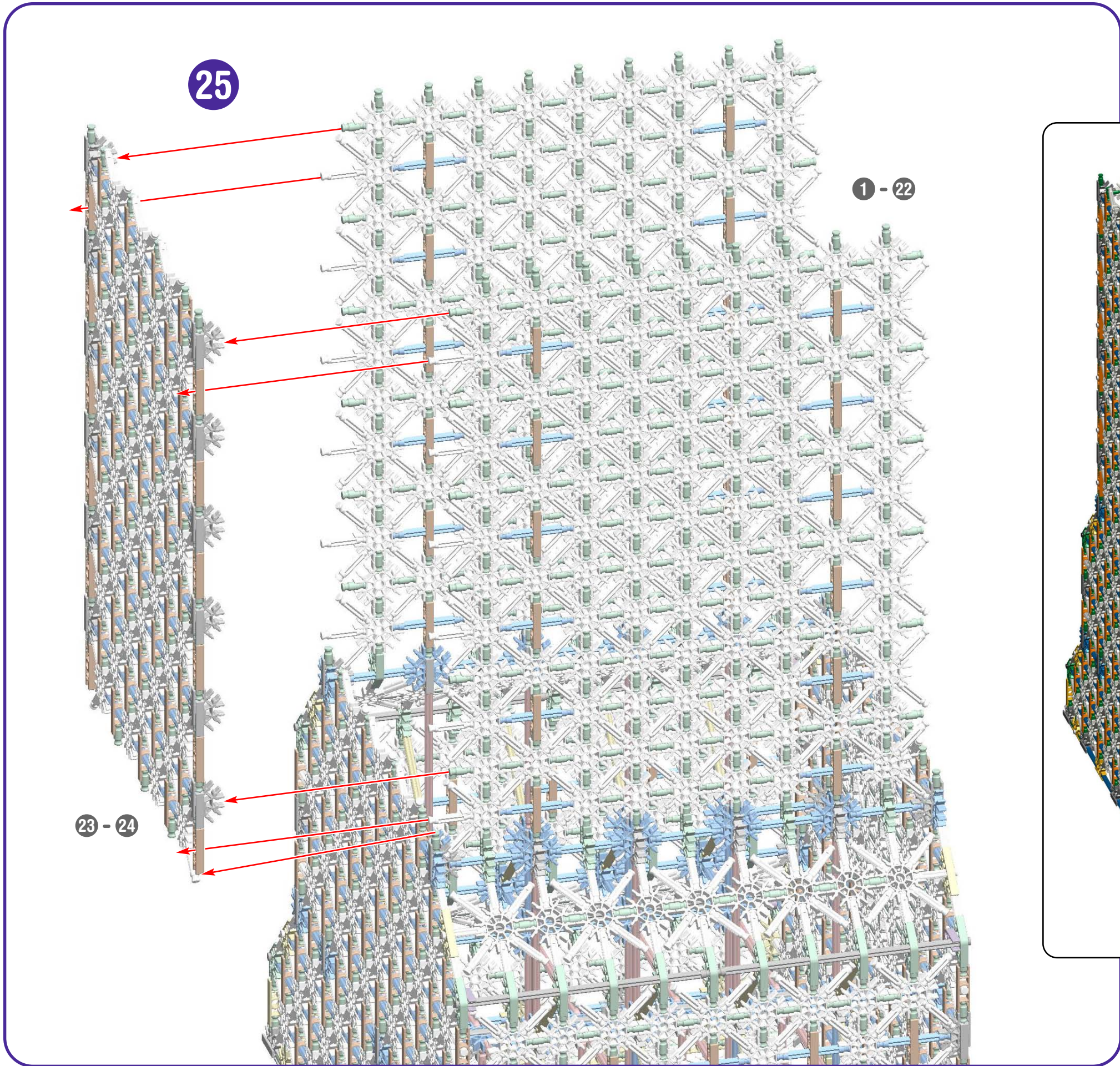
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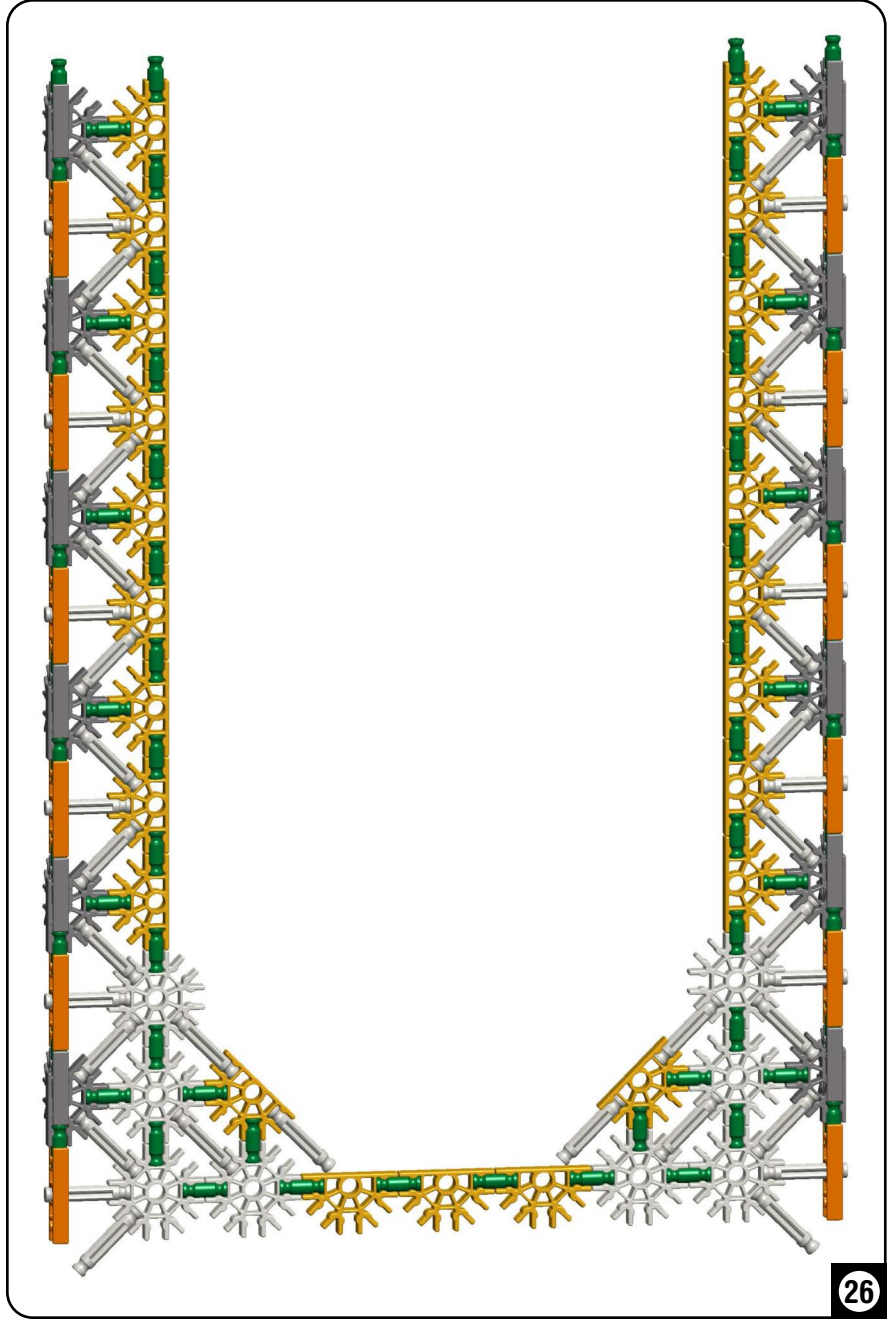
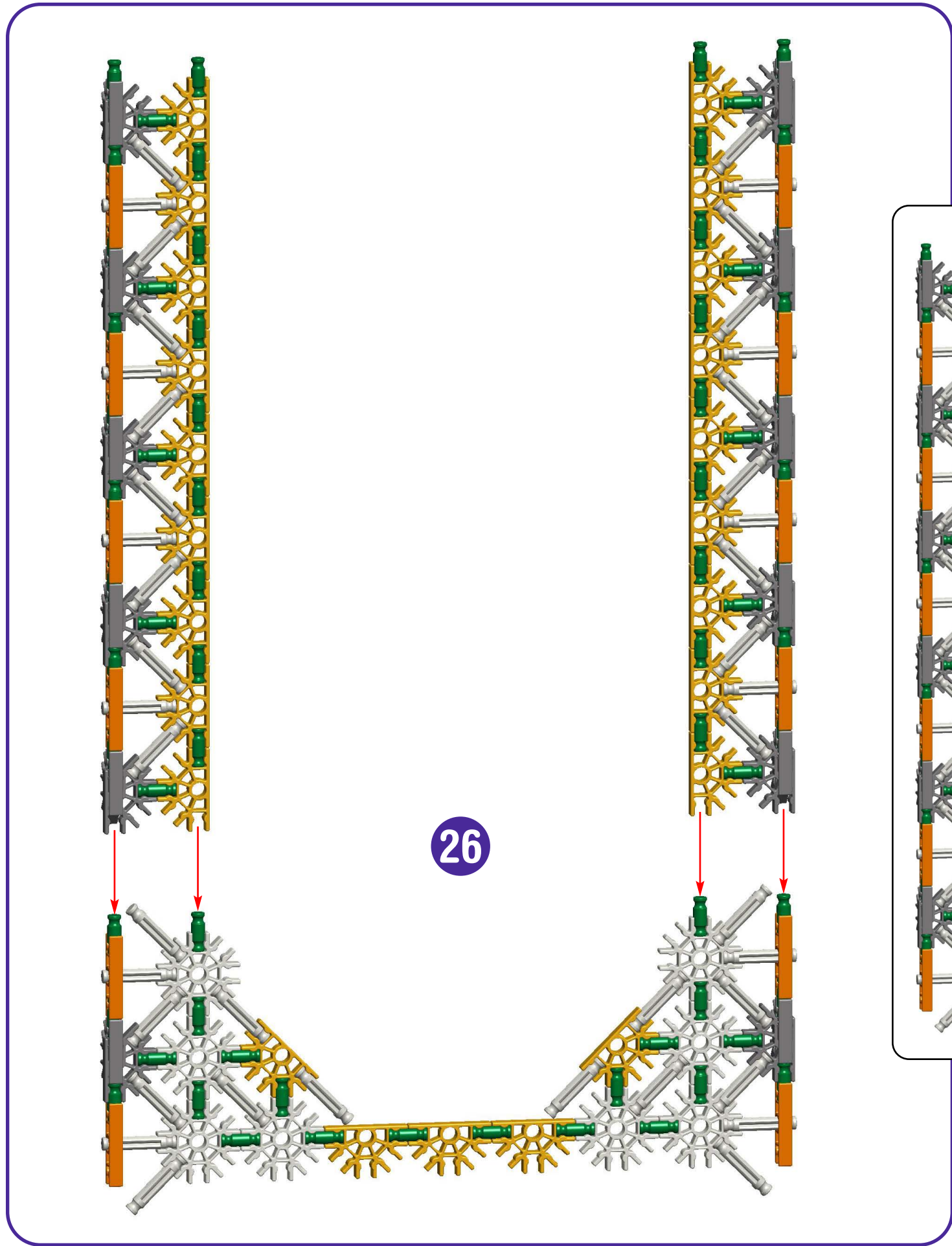


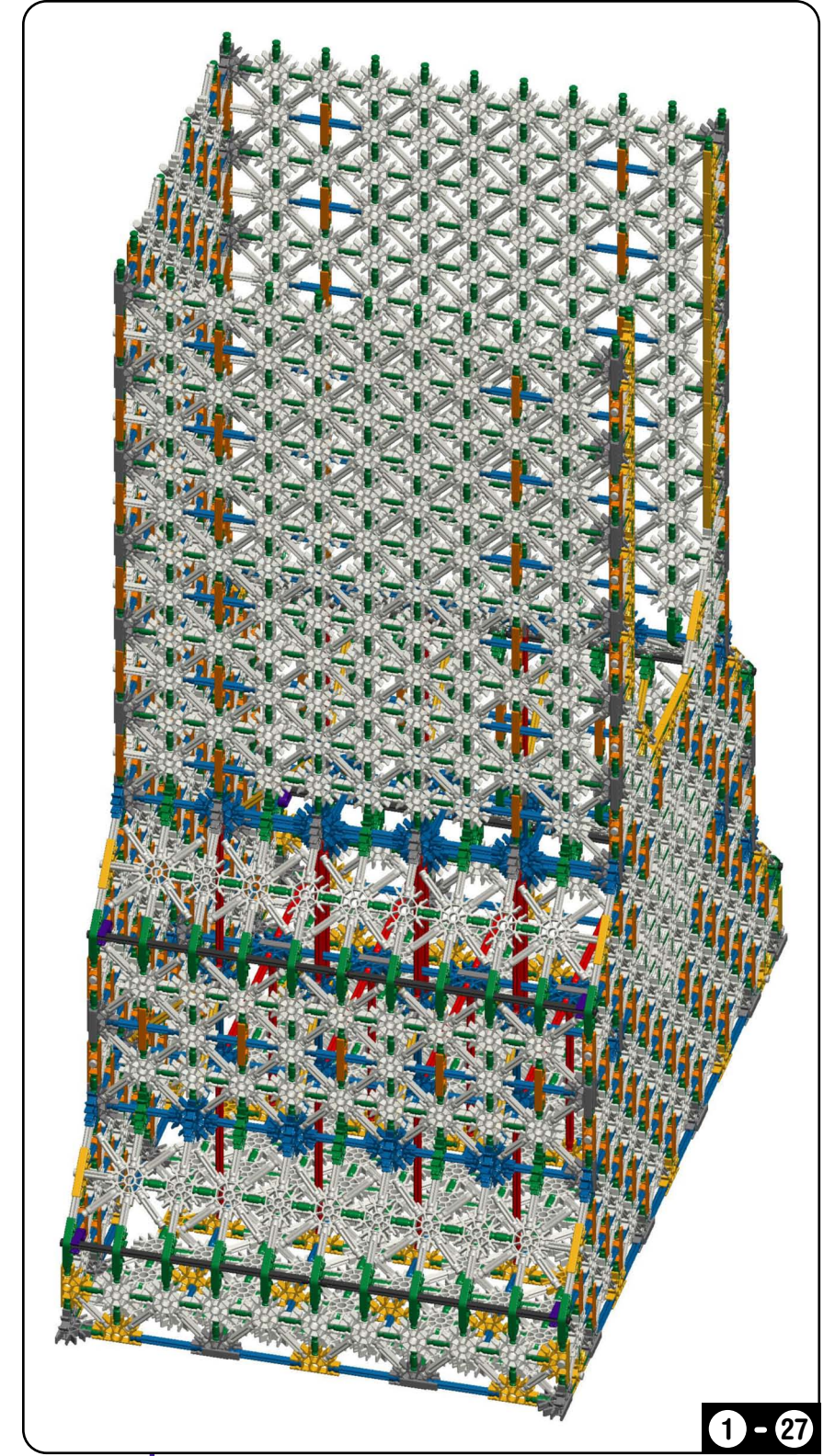
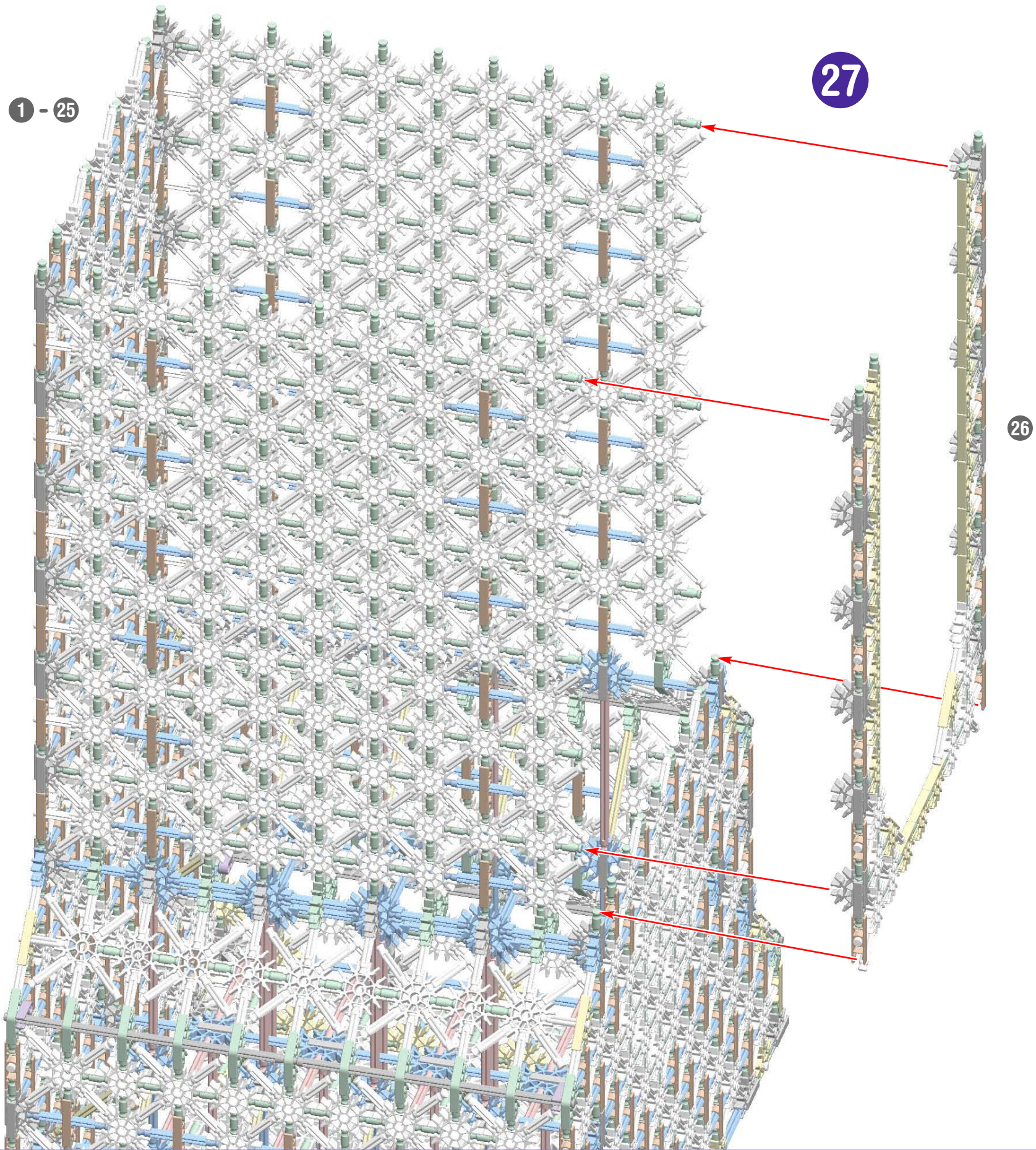
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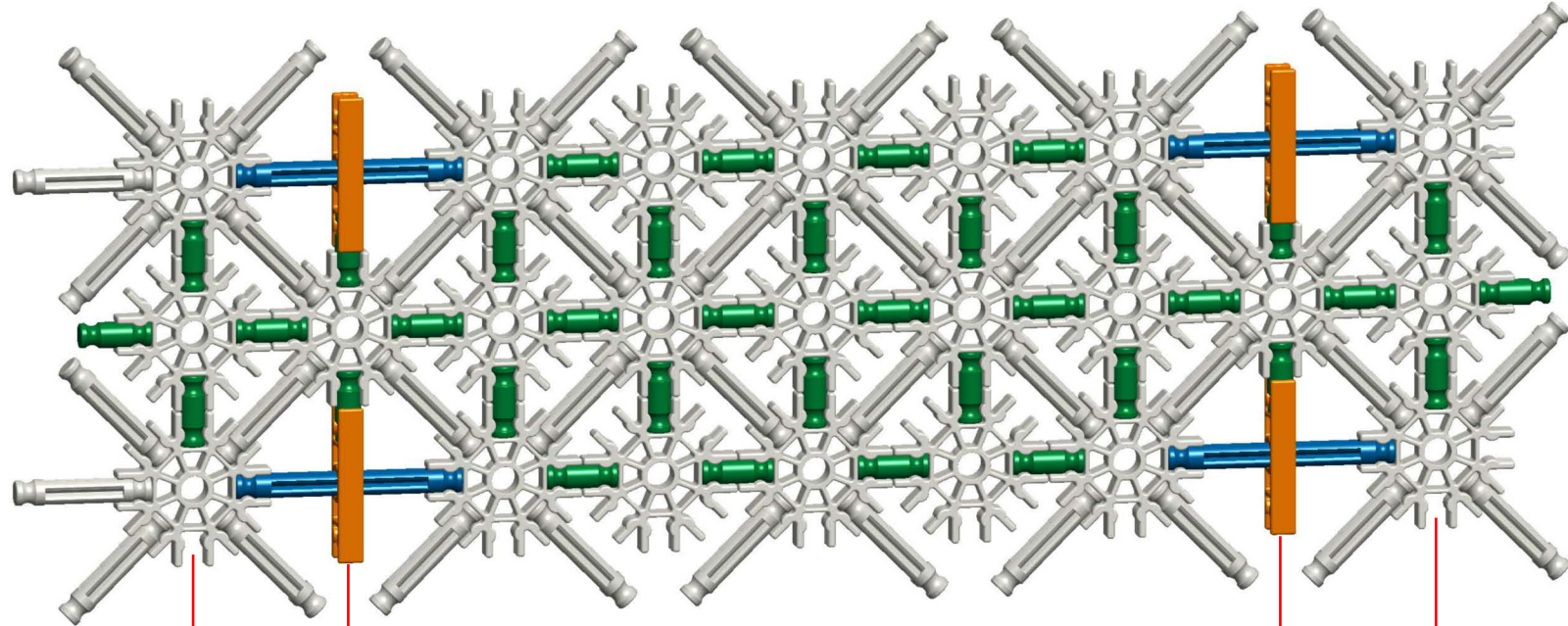




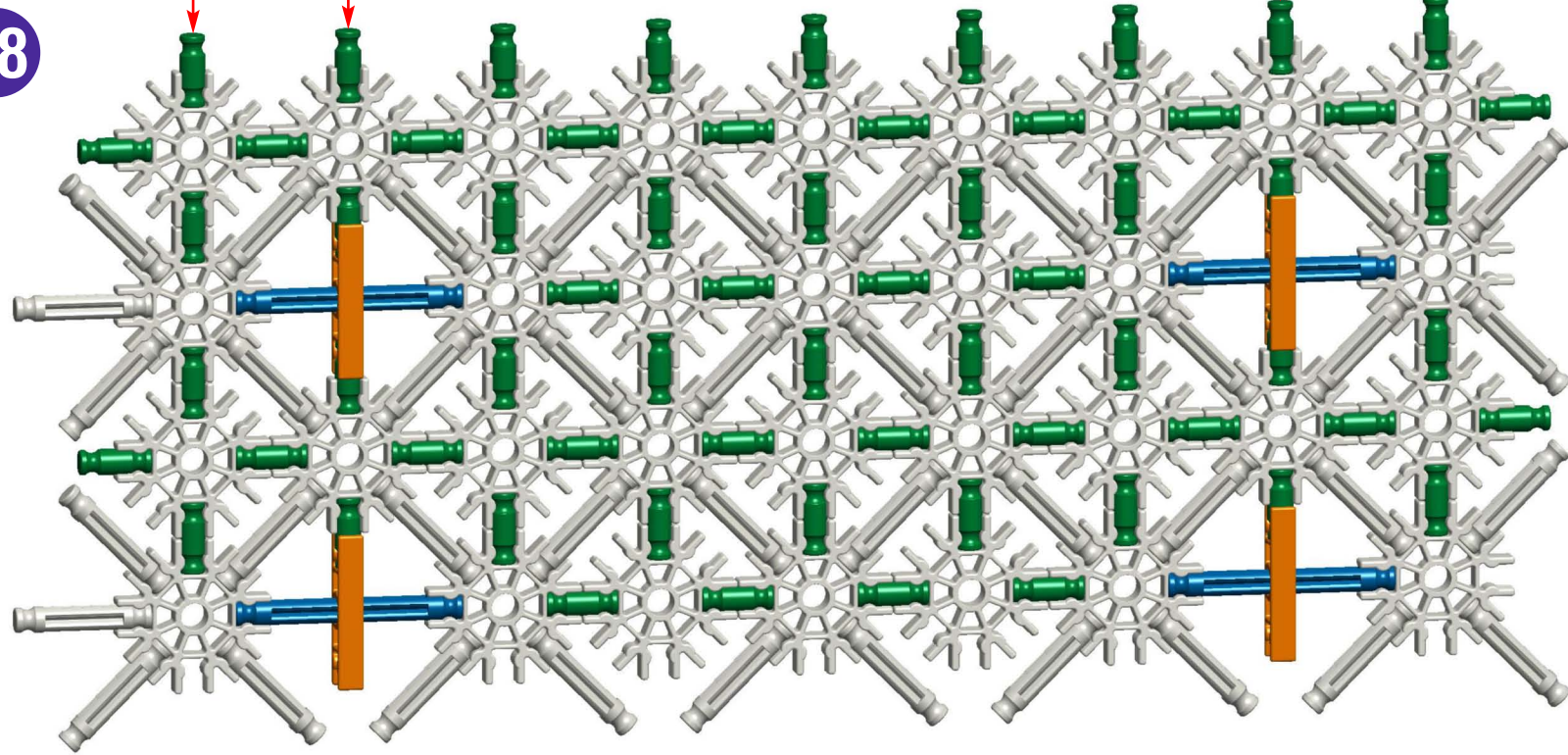




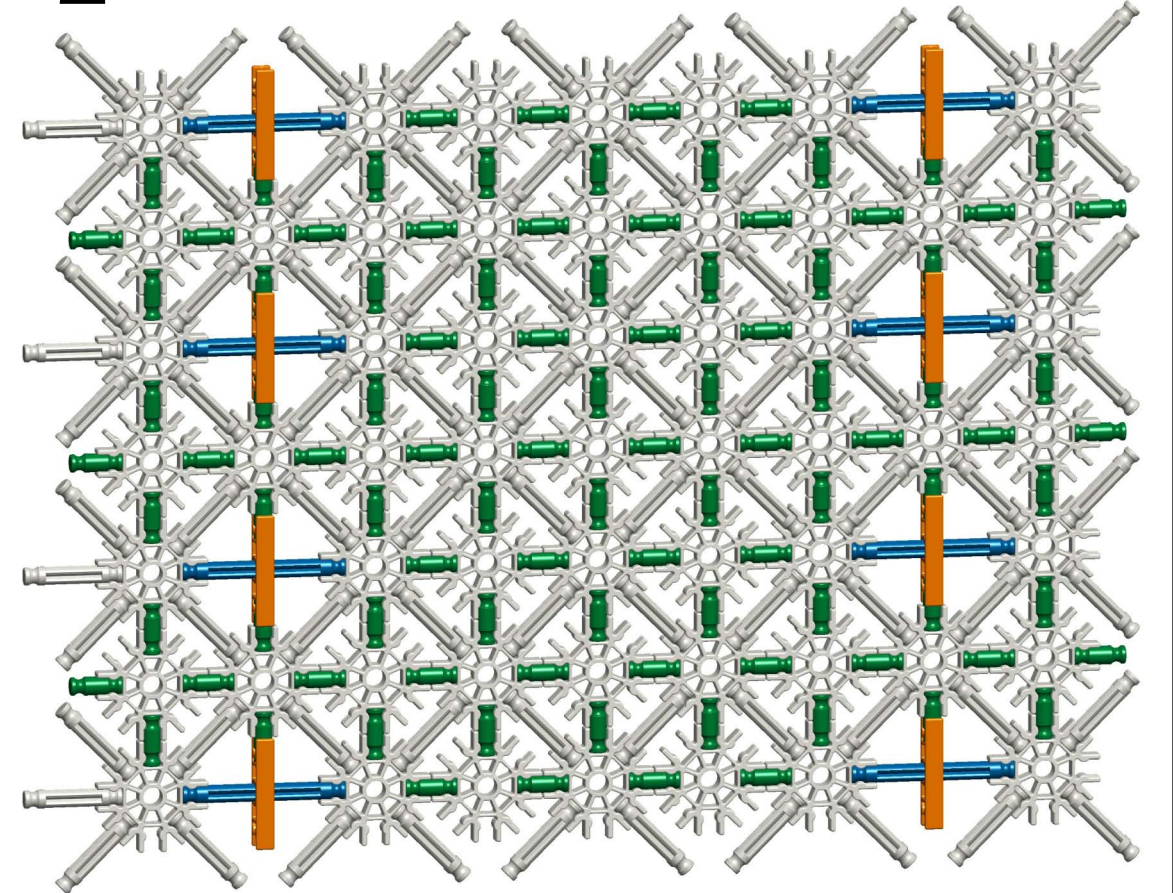
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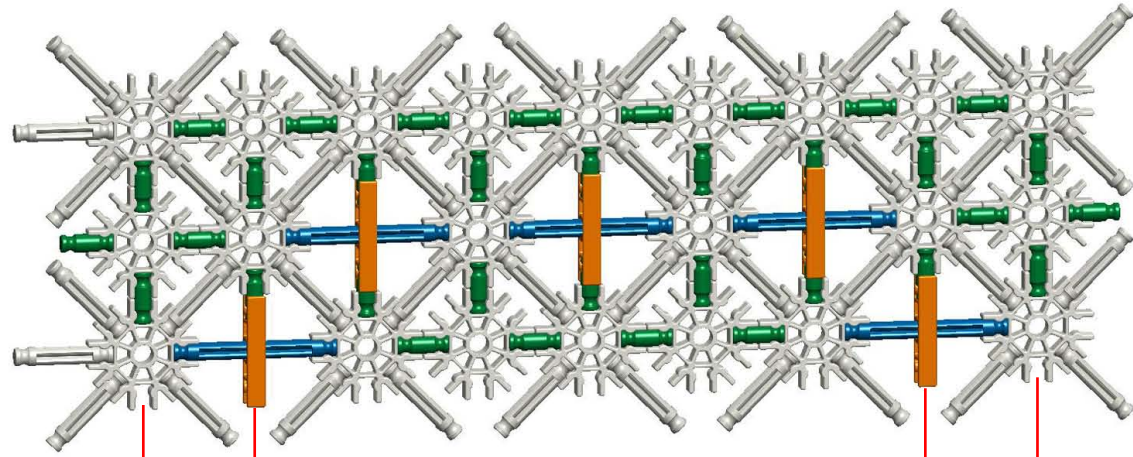


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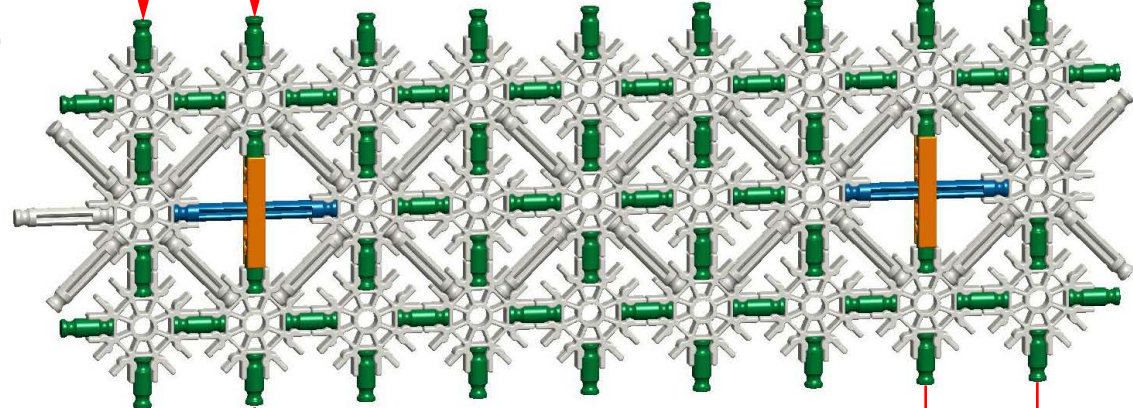


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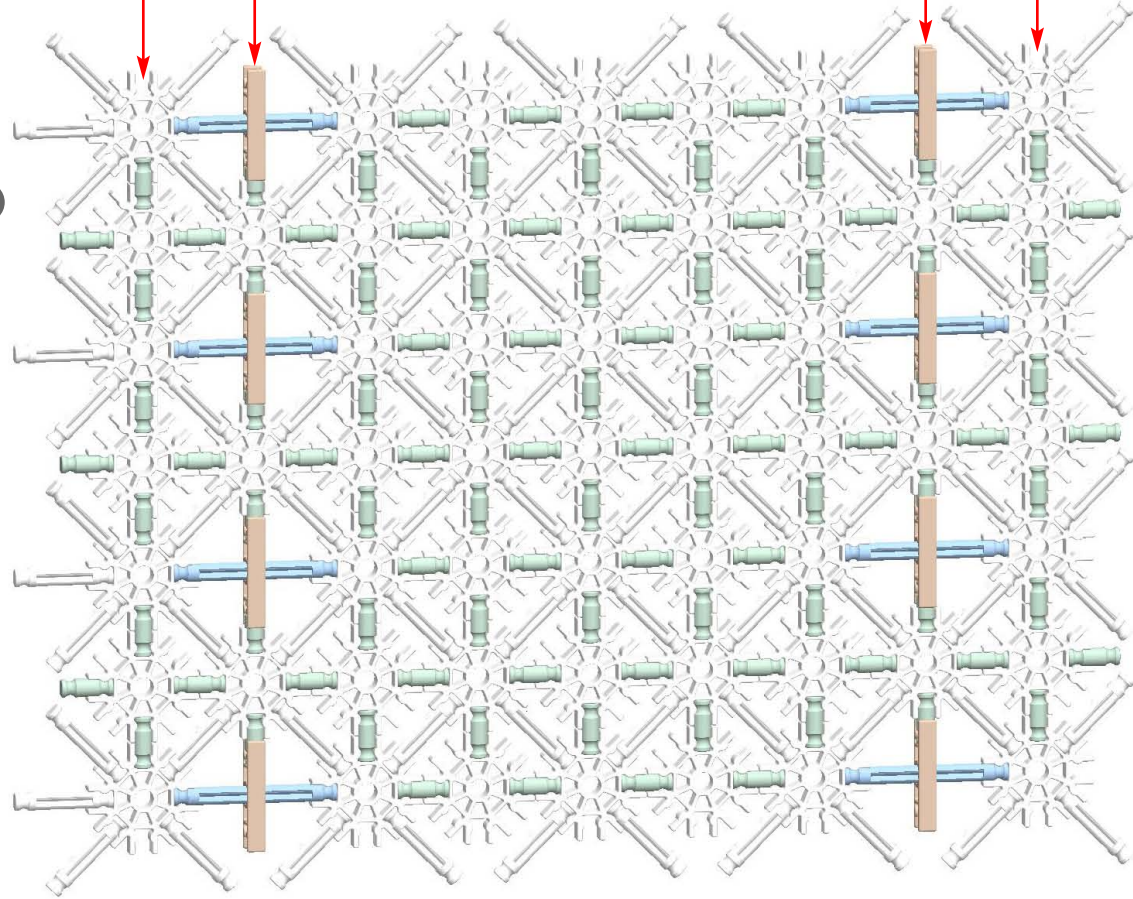
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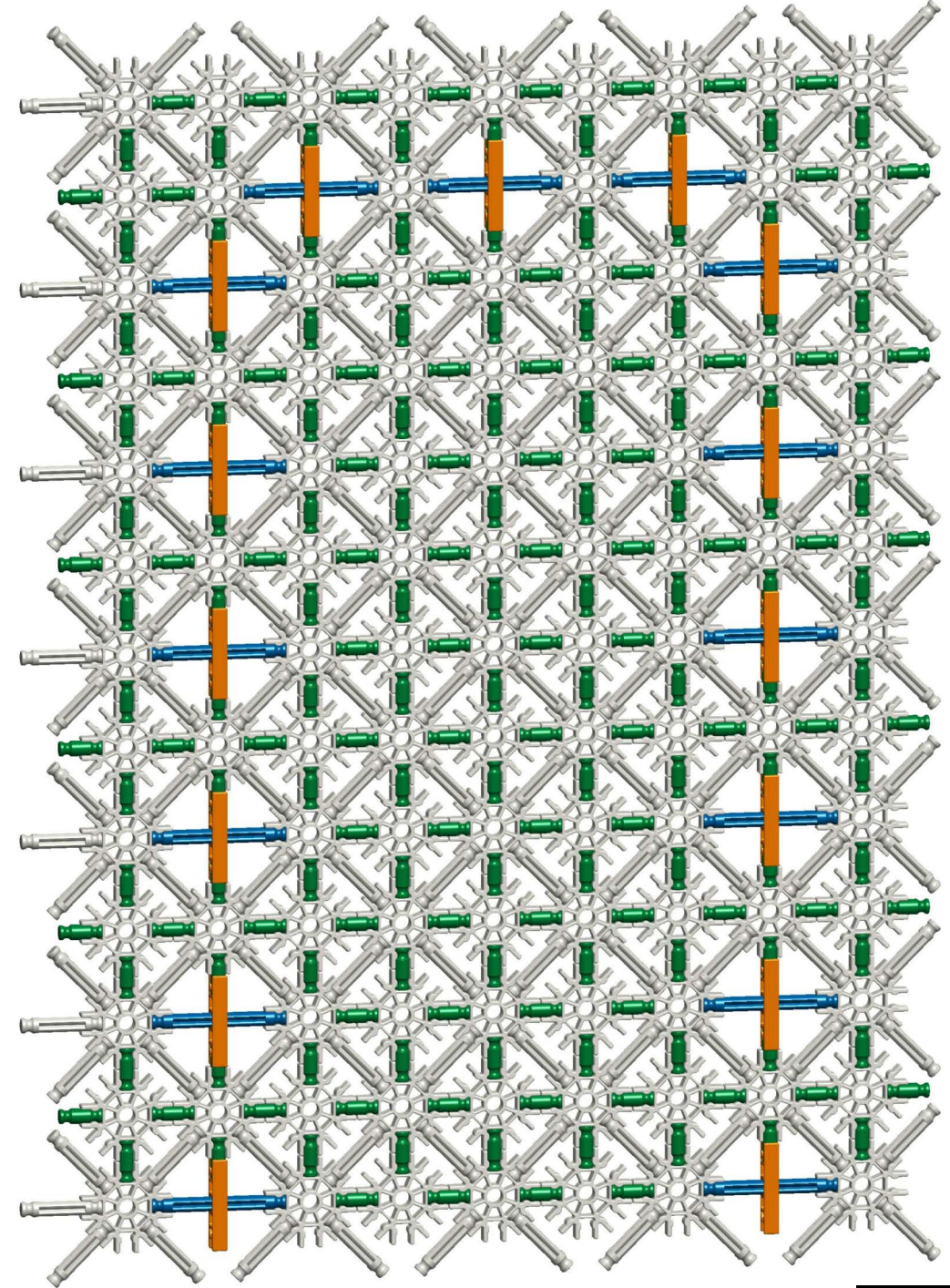
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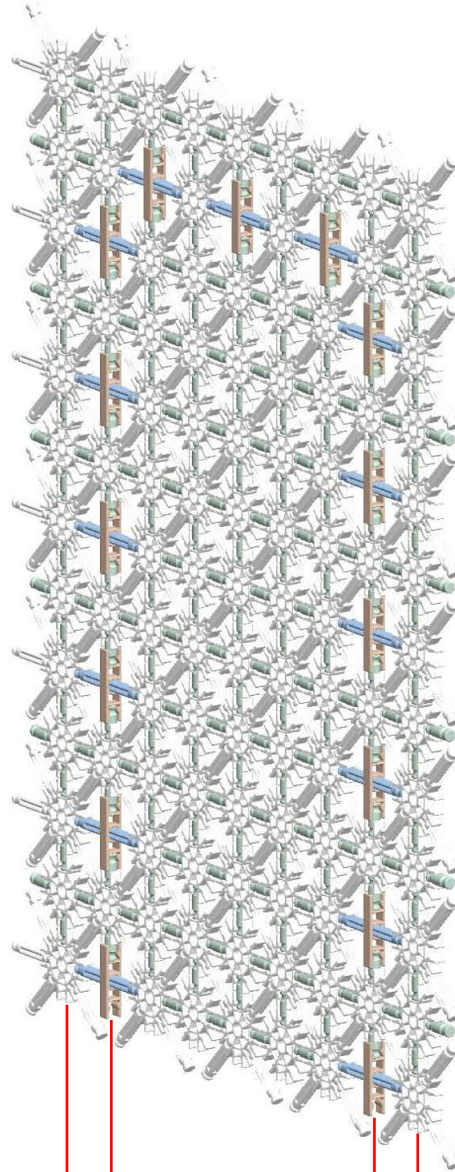


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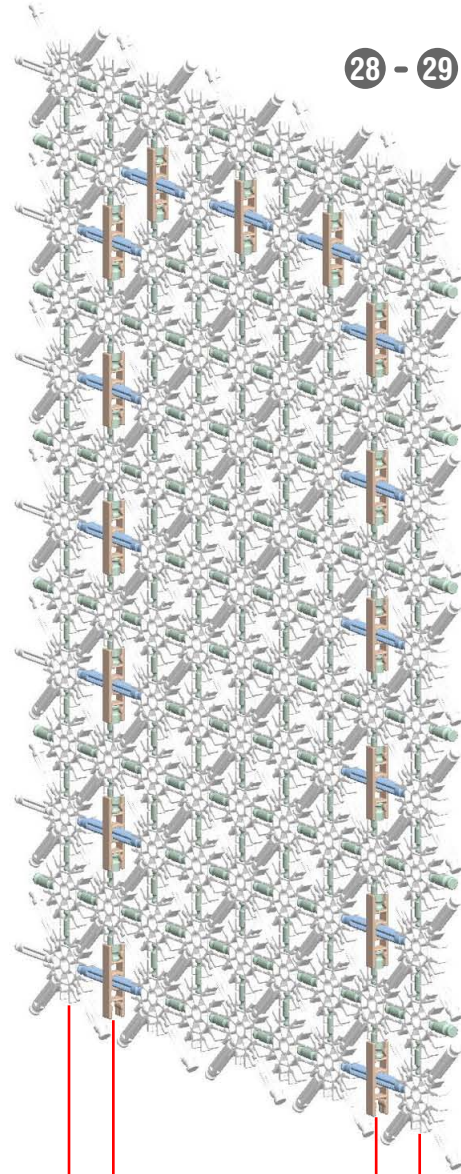


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28 - 29

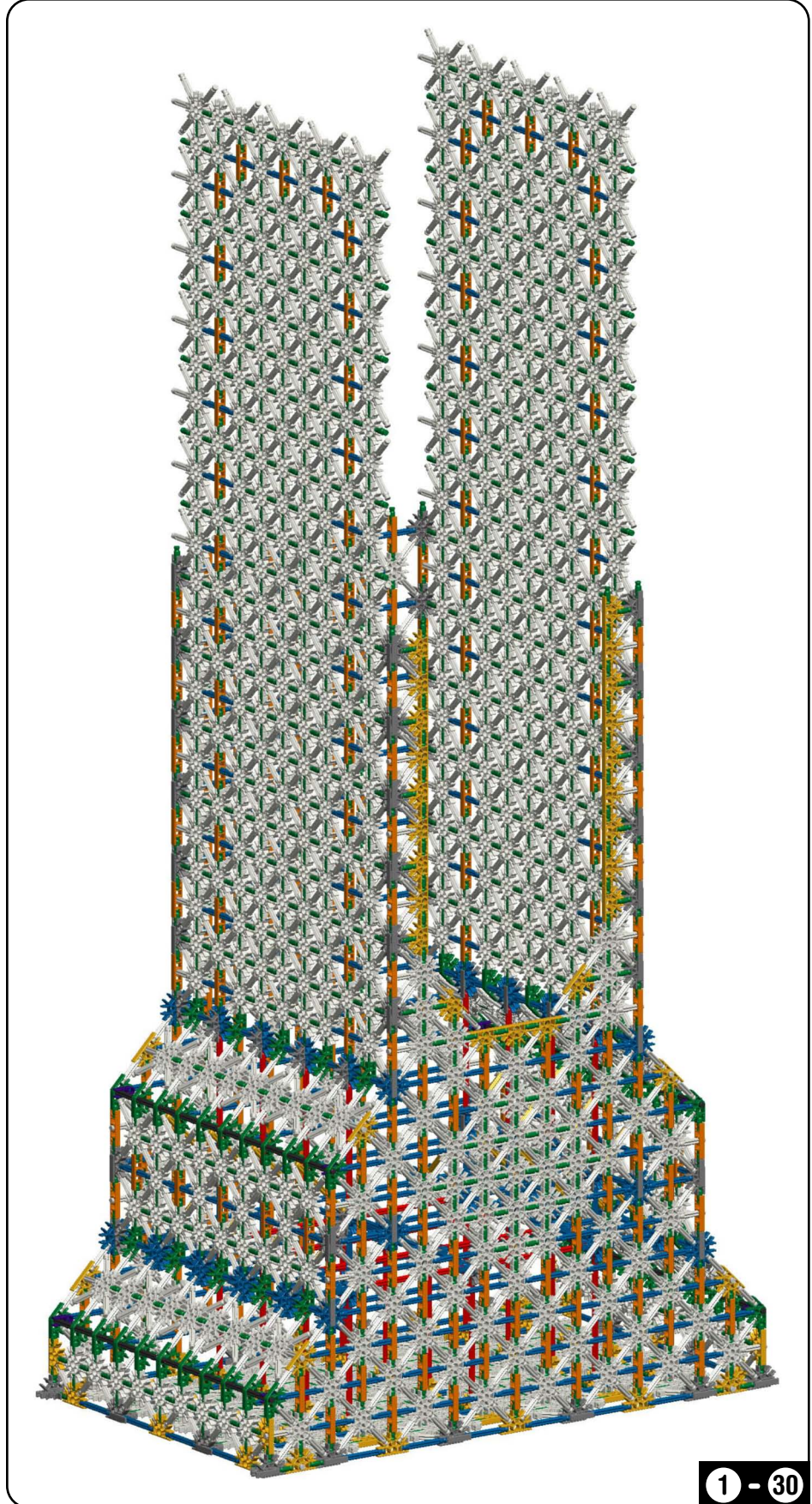
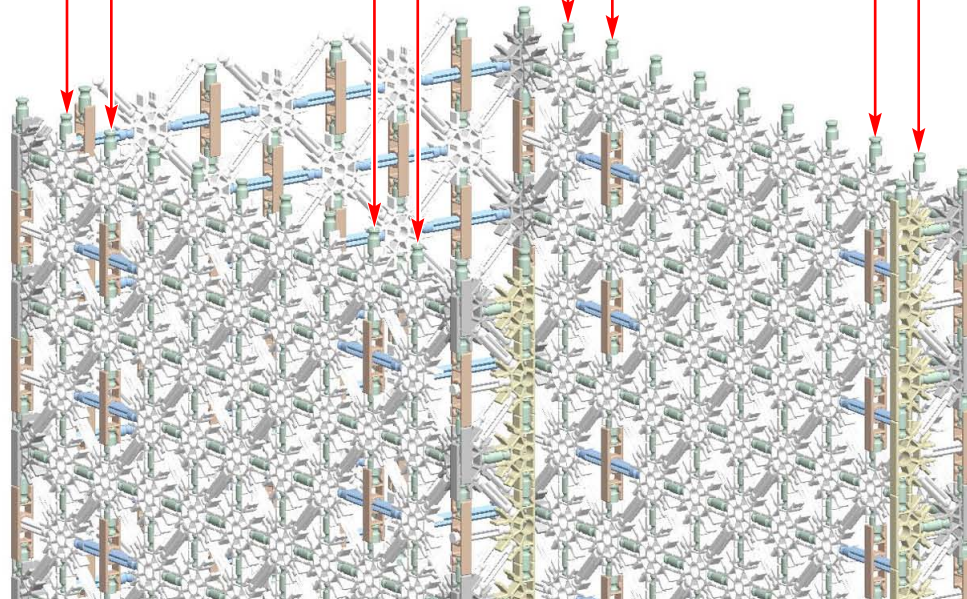


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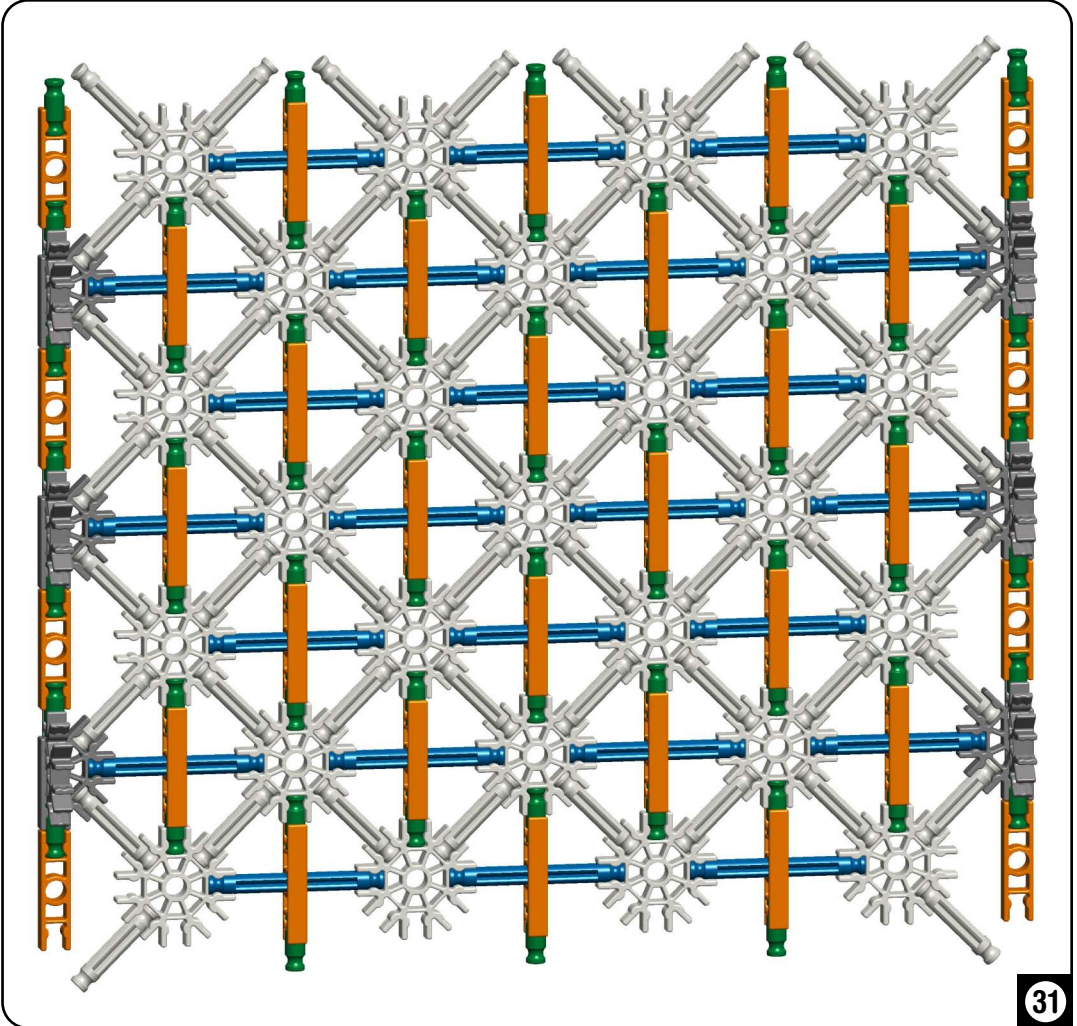
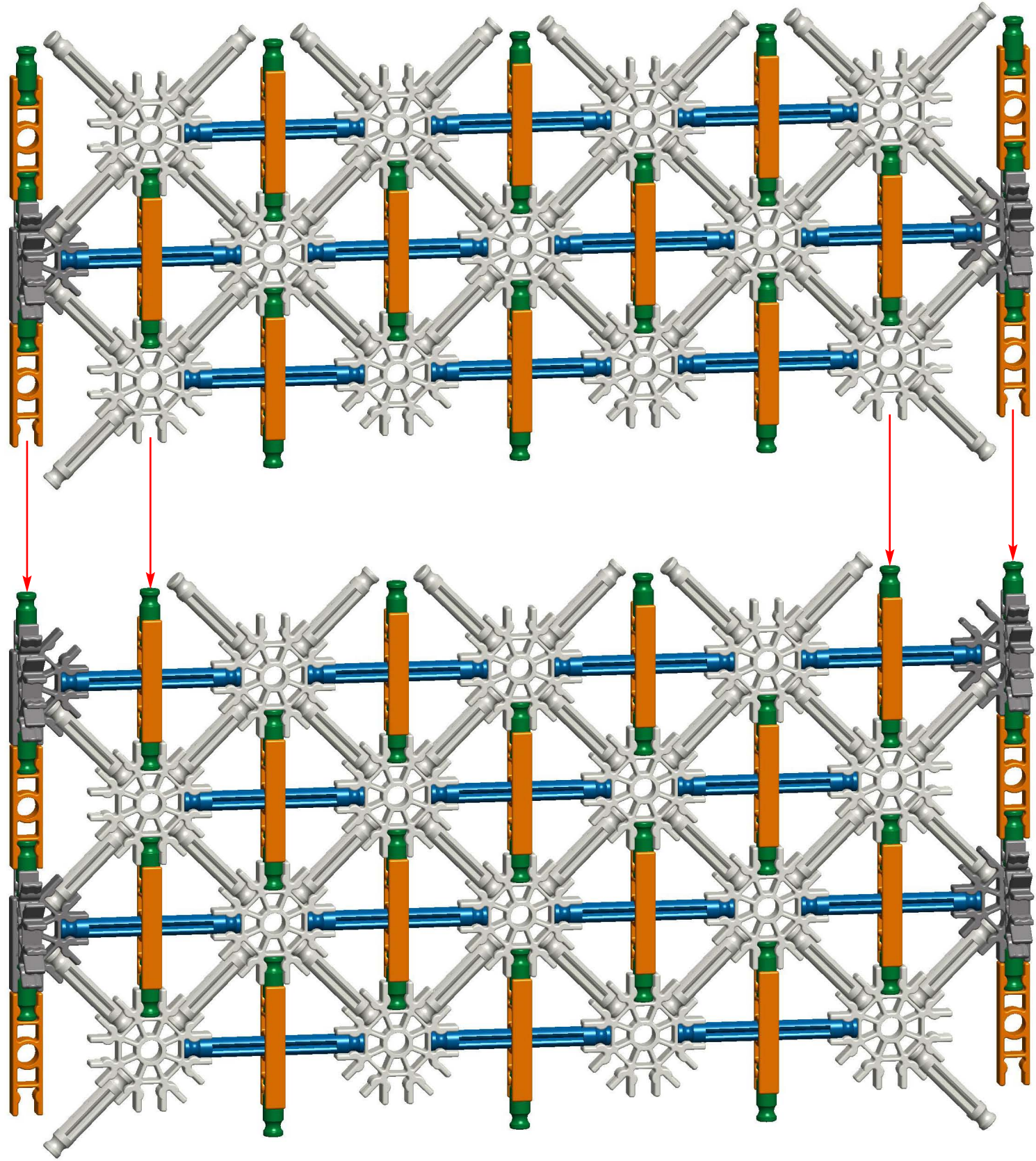
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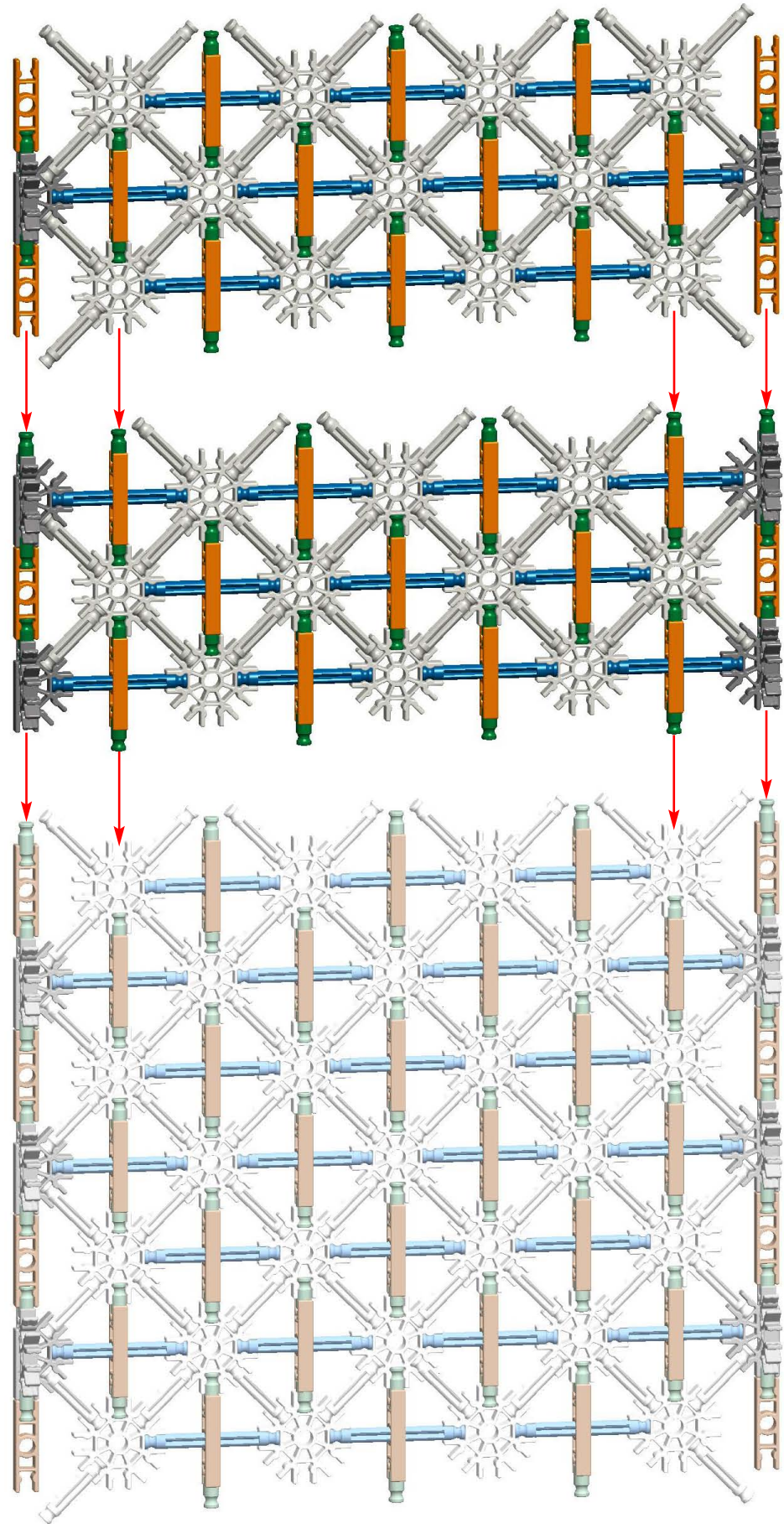
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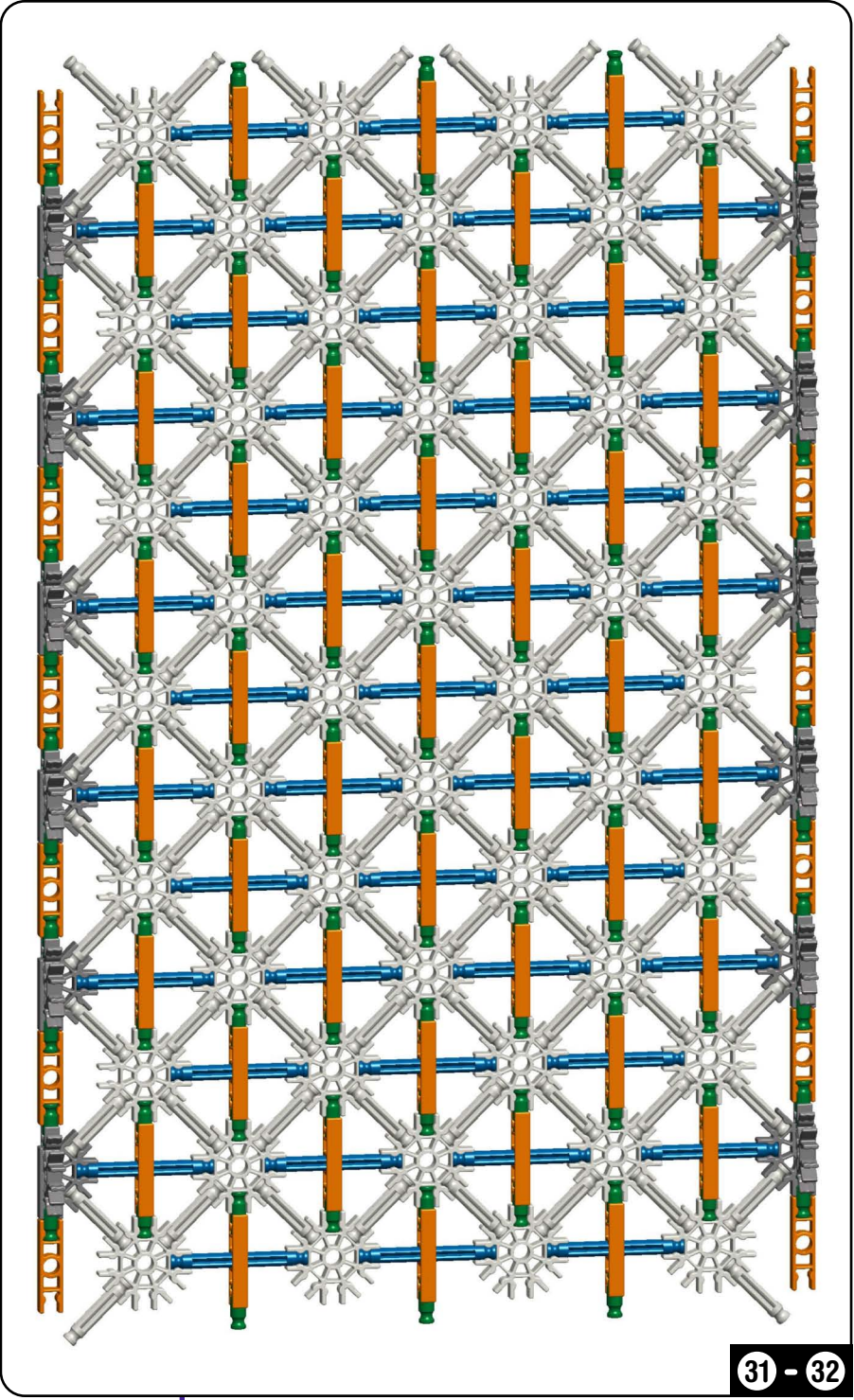


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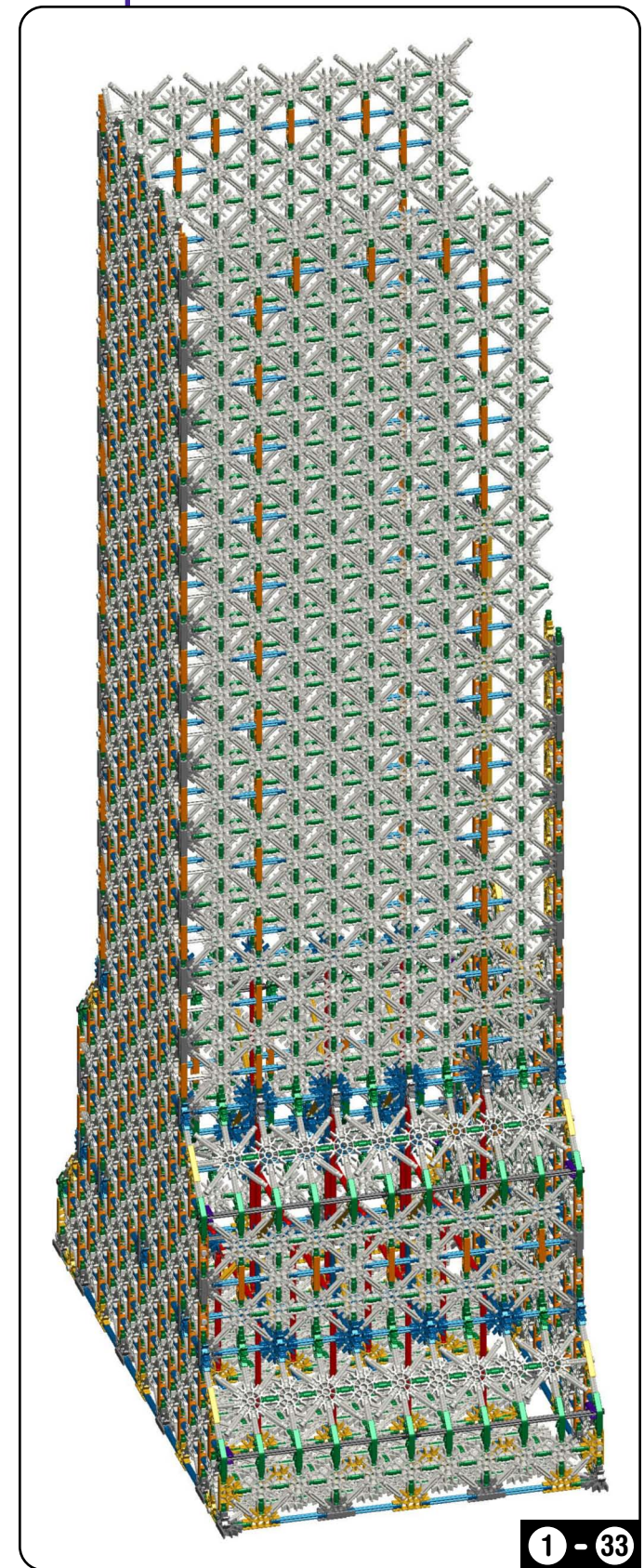
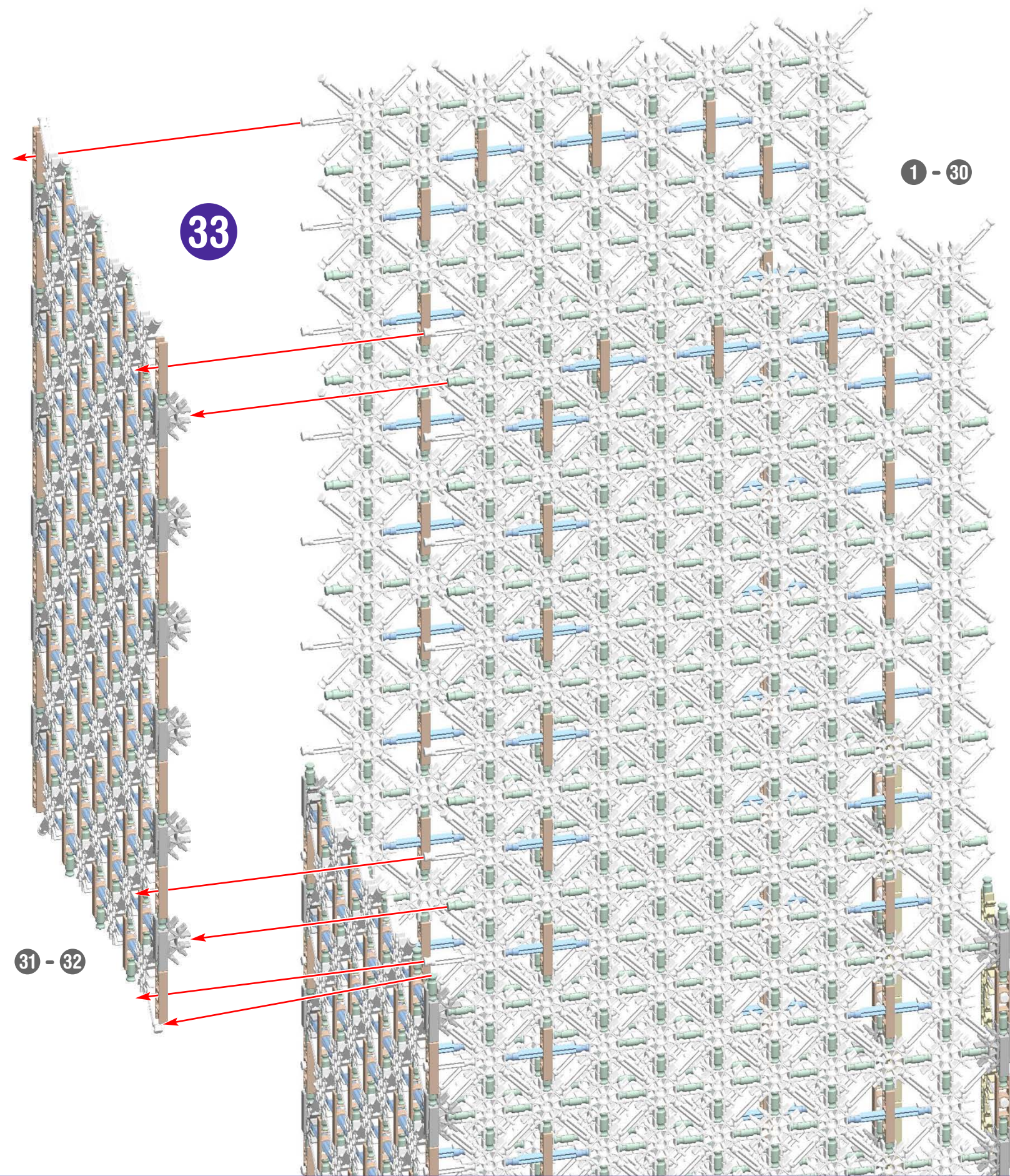
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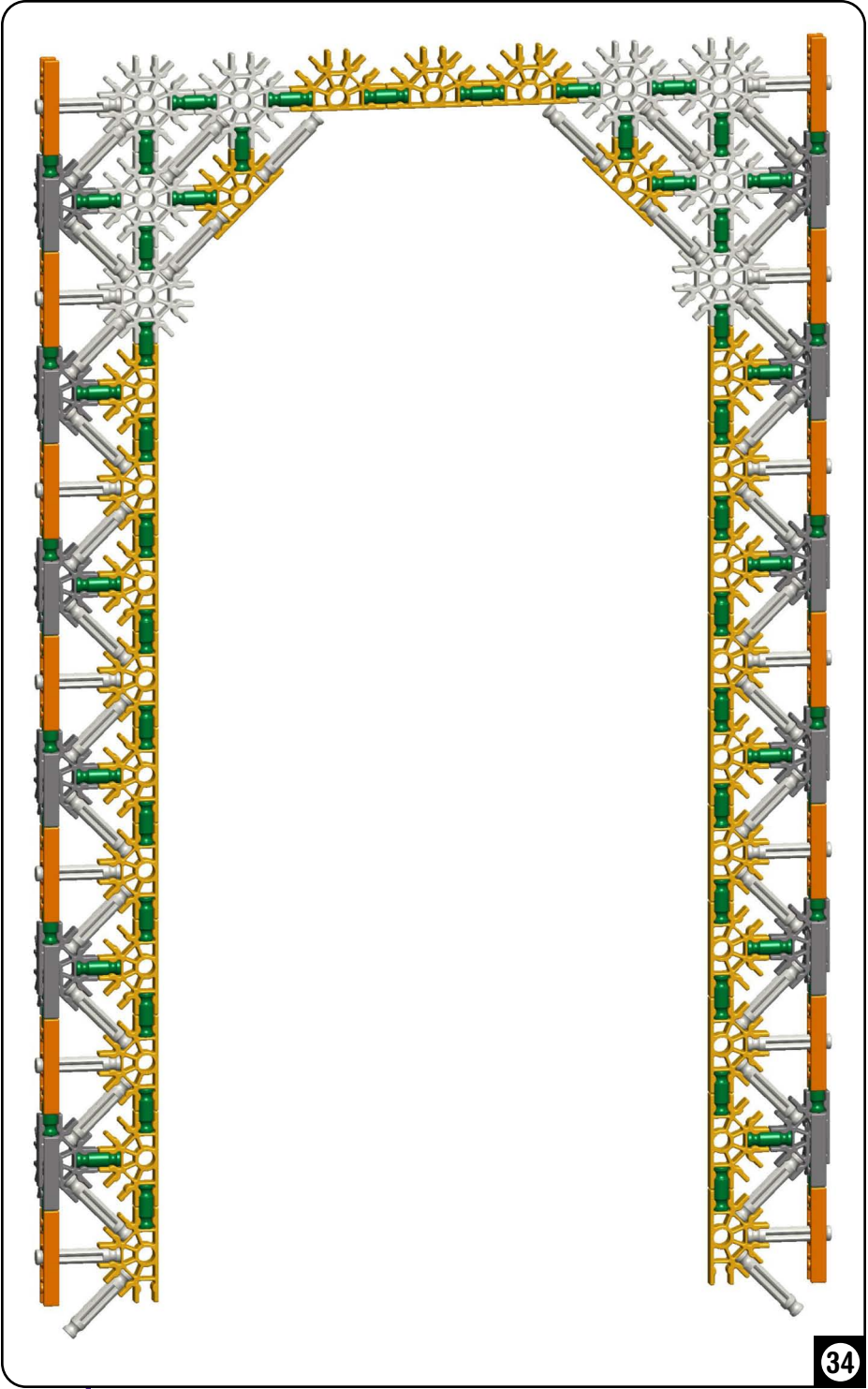
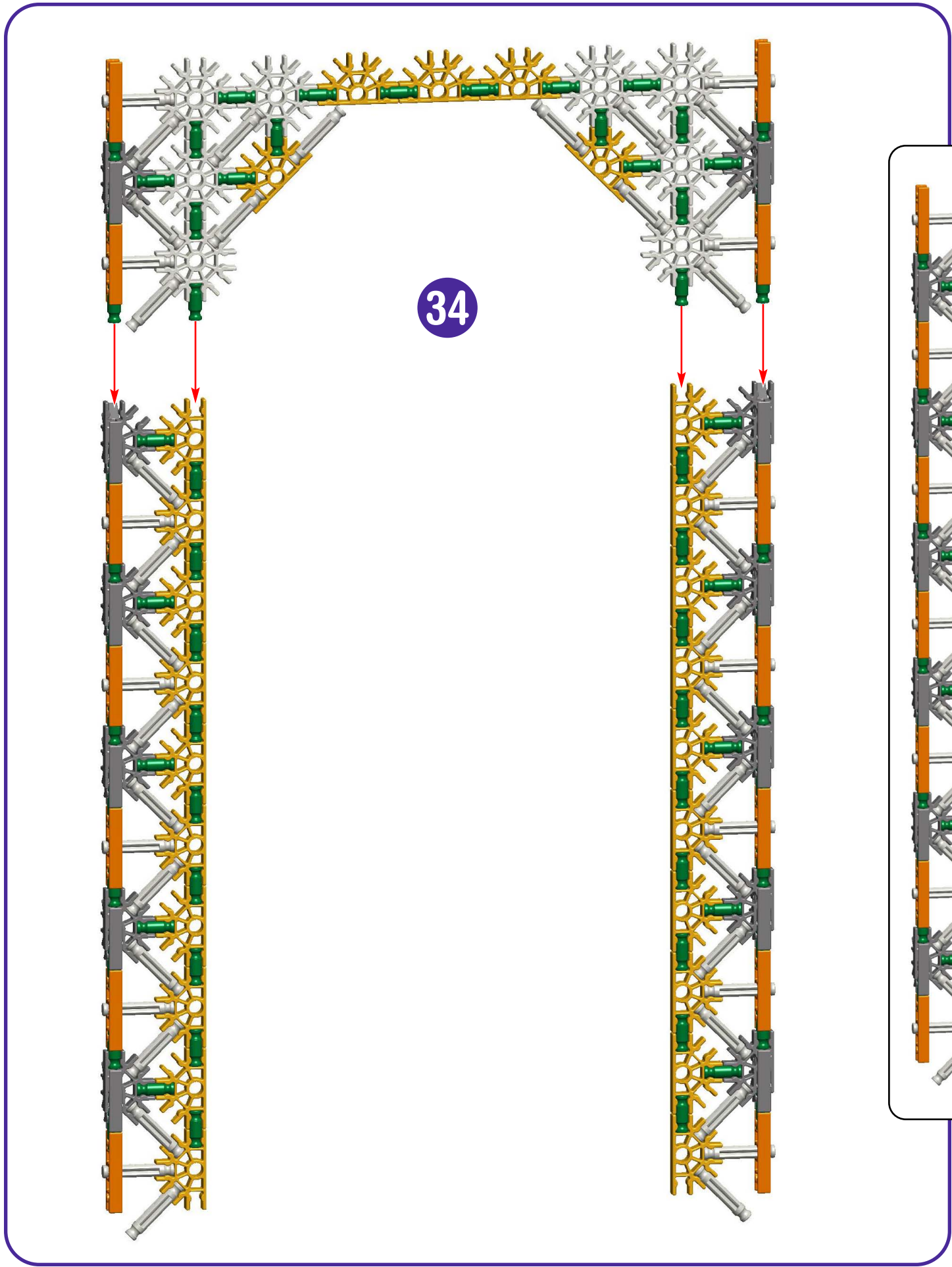


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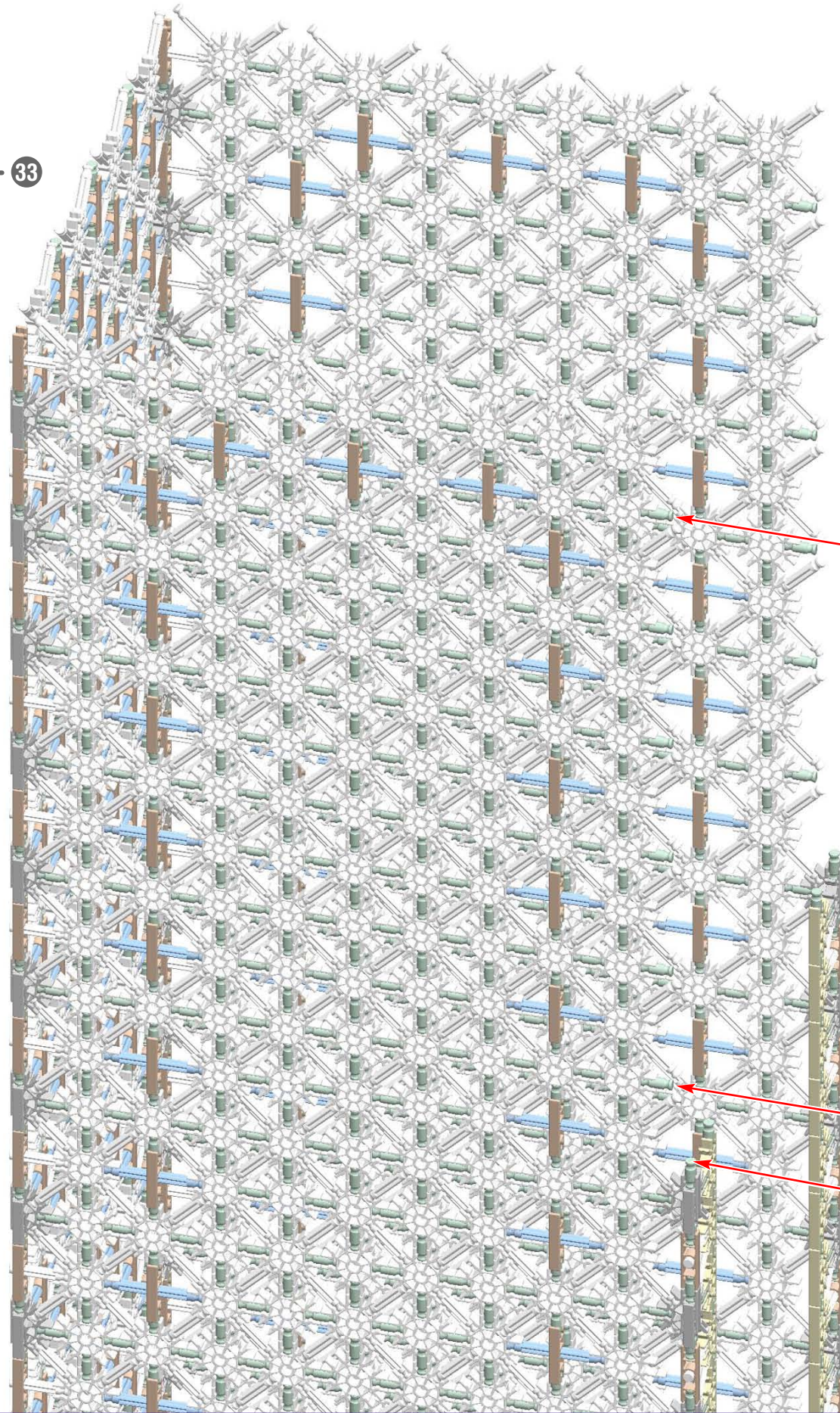


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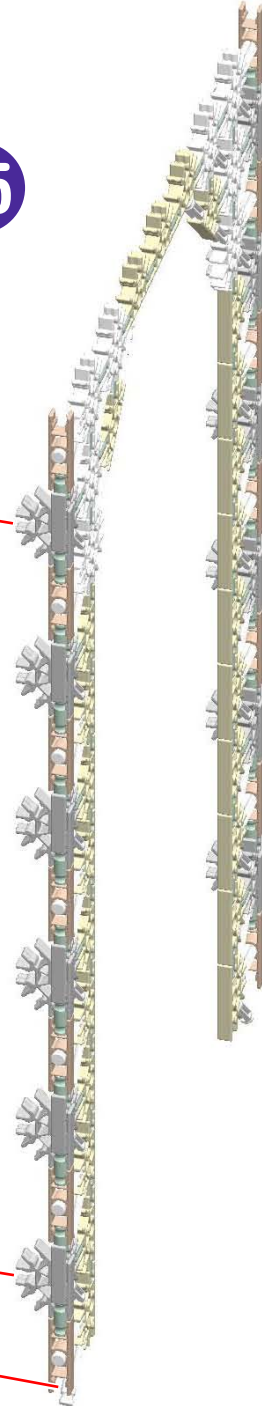




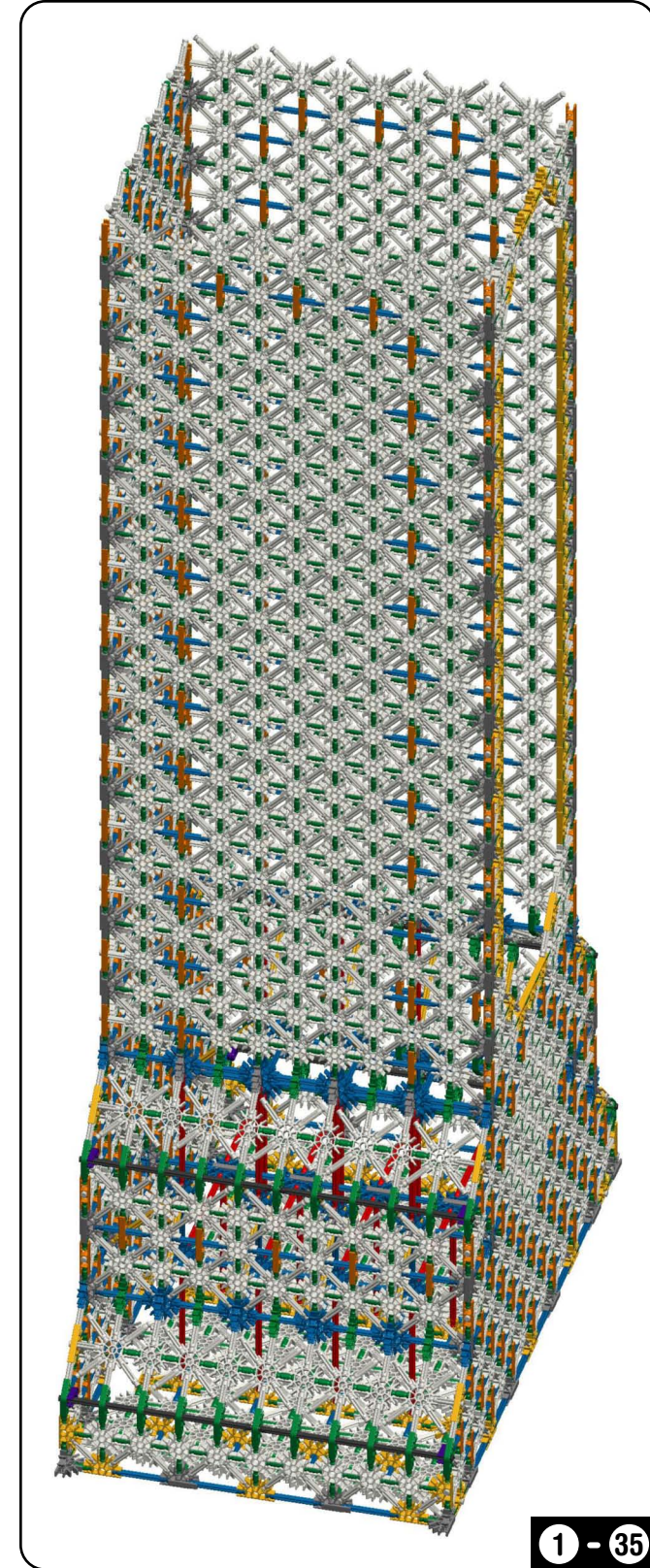
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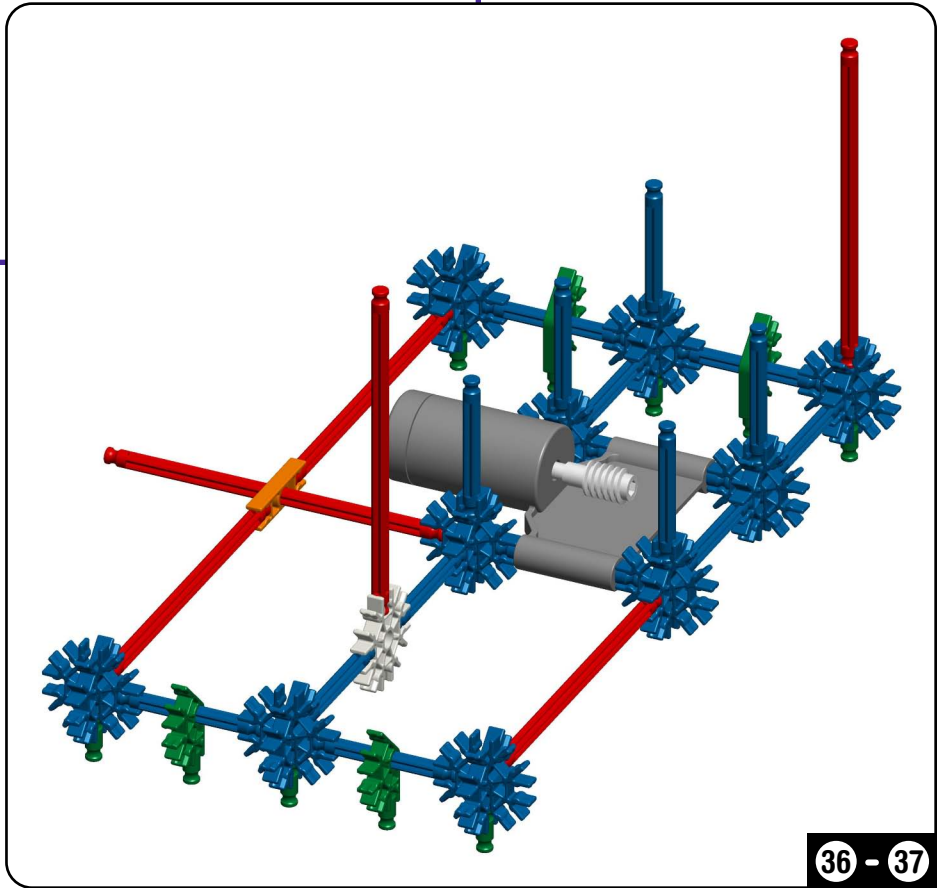
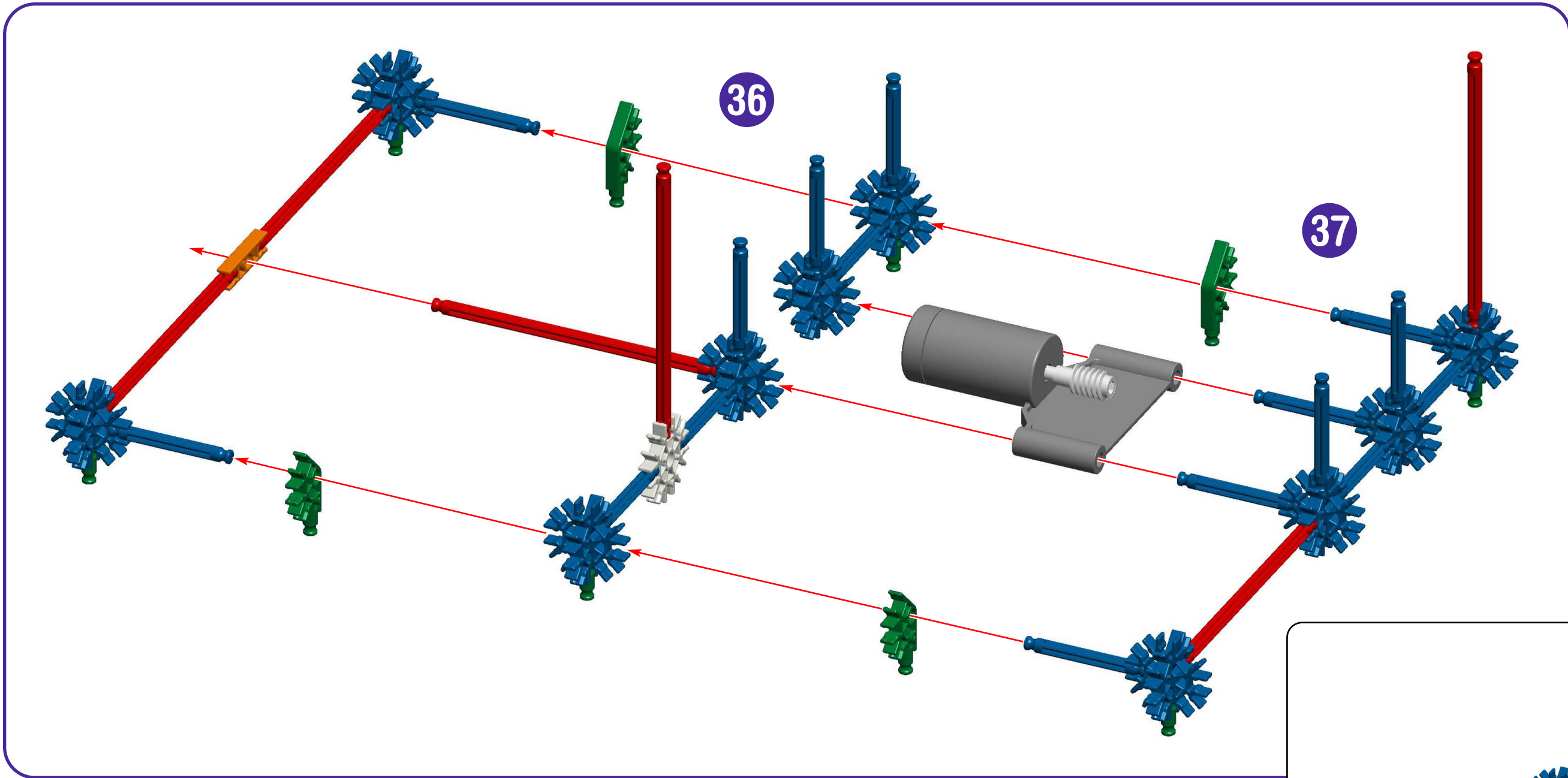


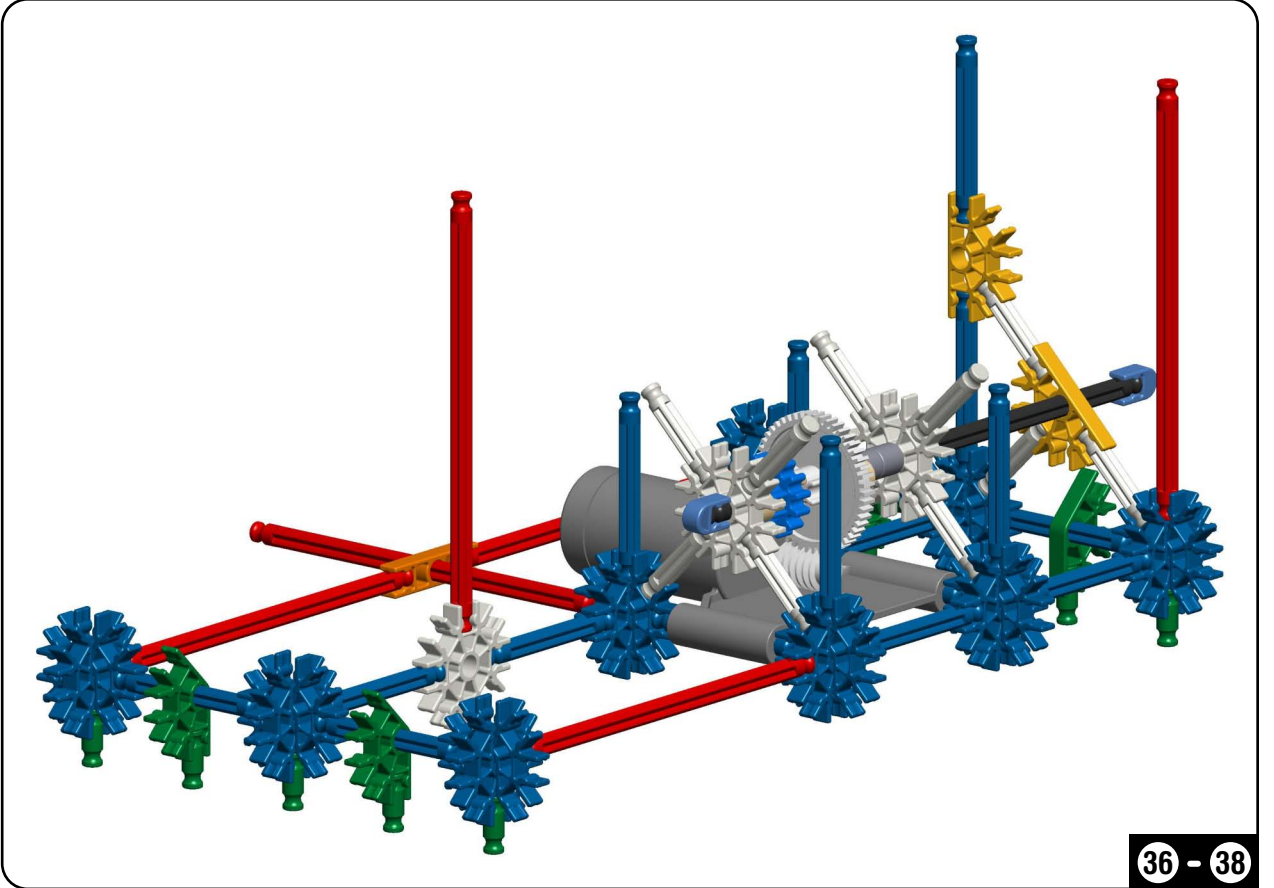
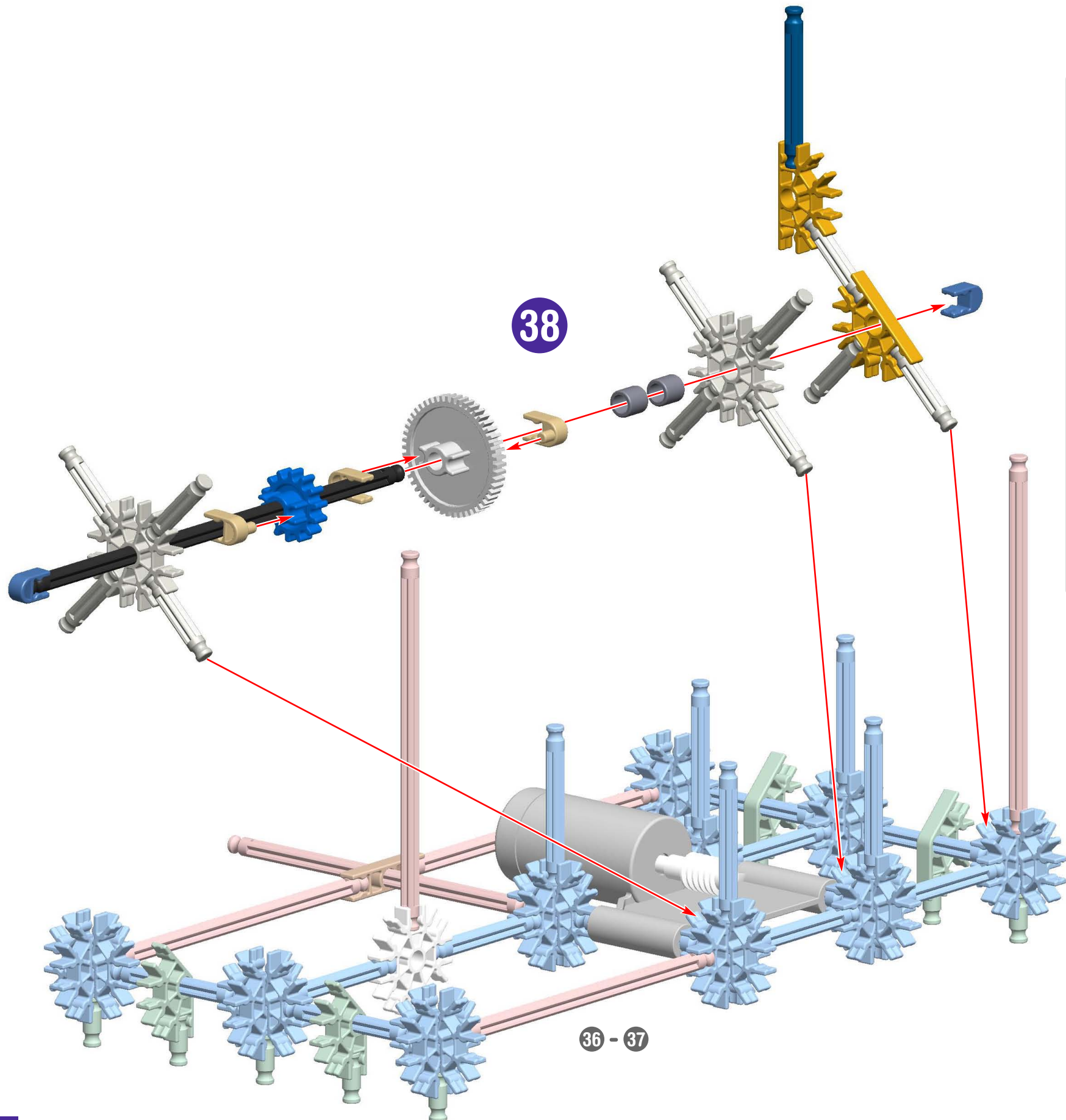
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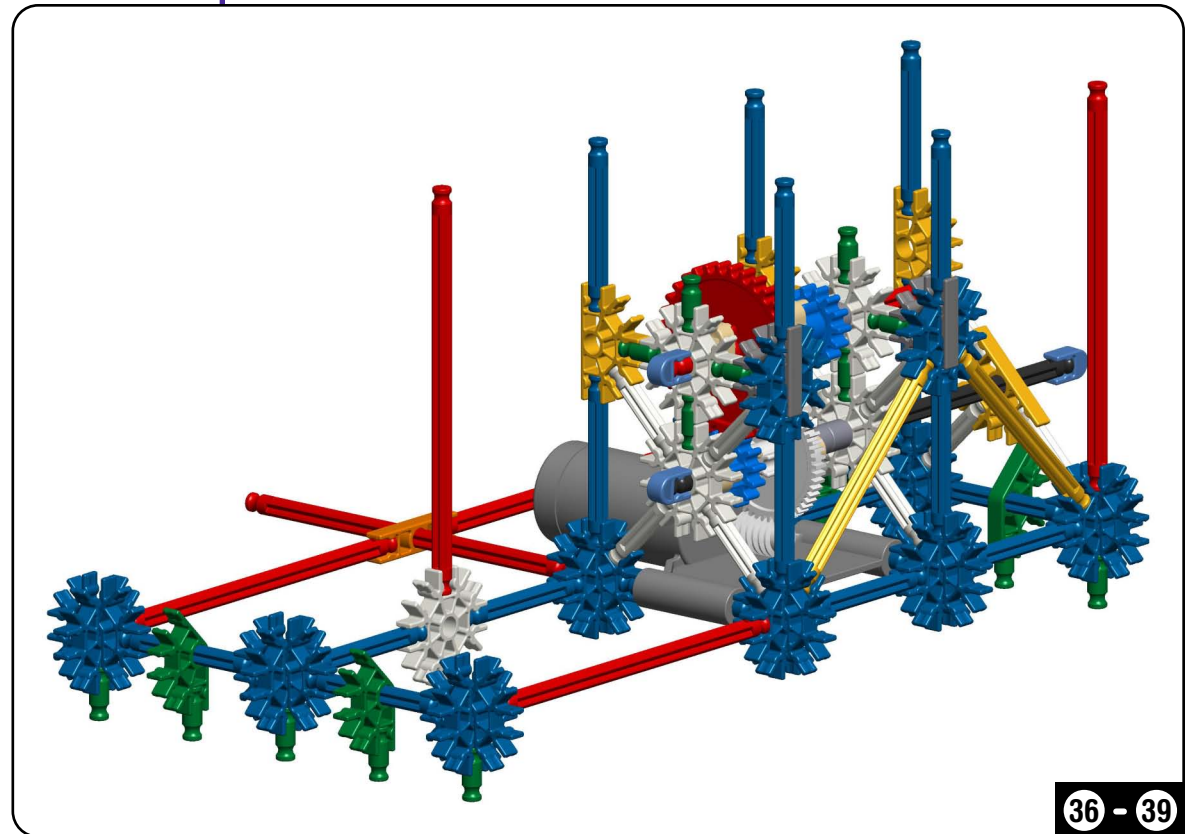
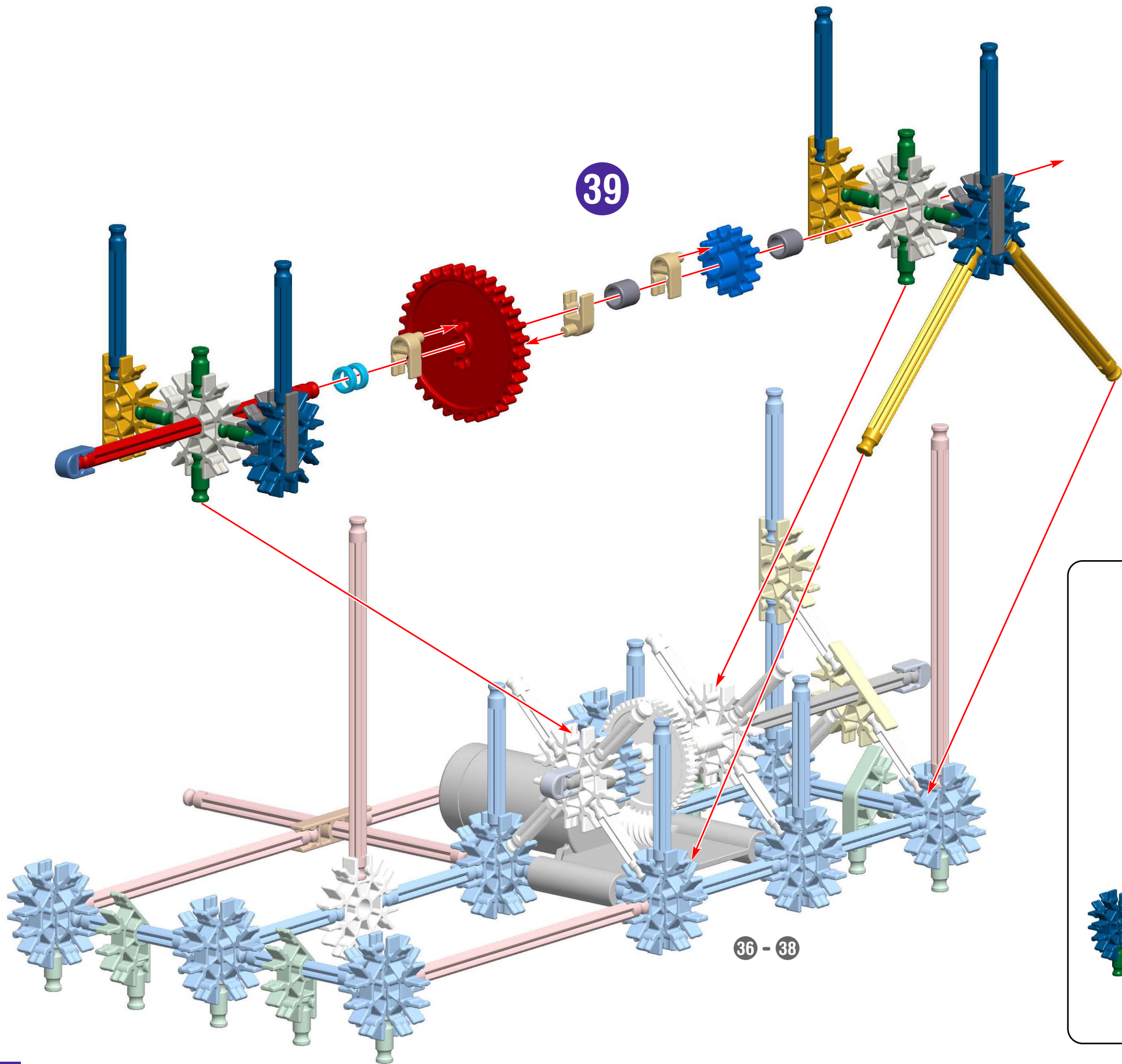
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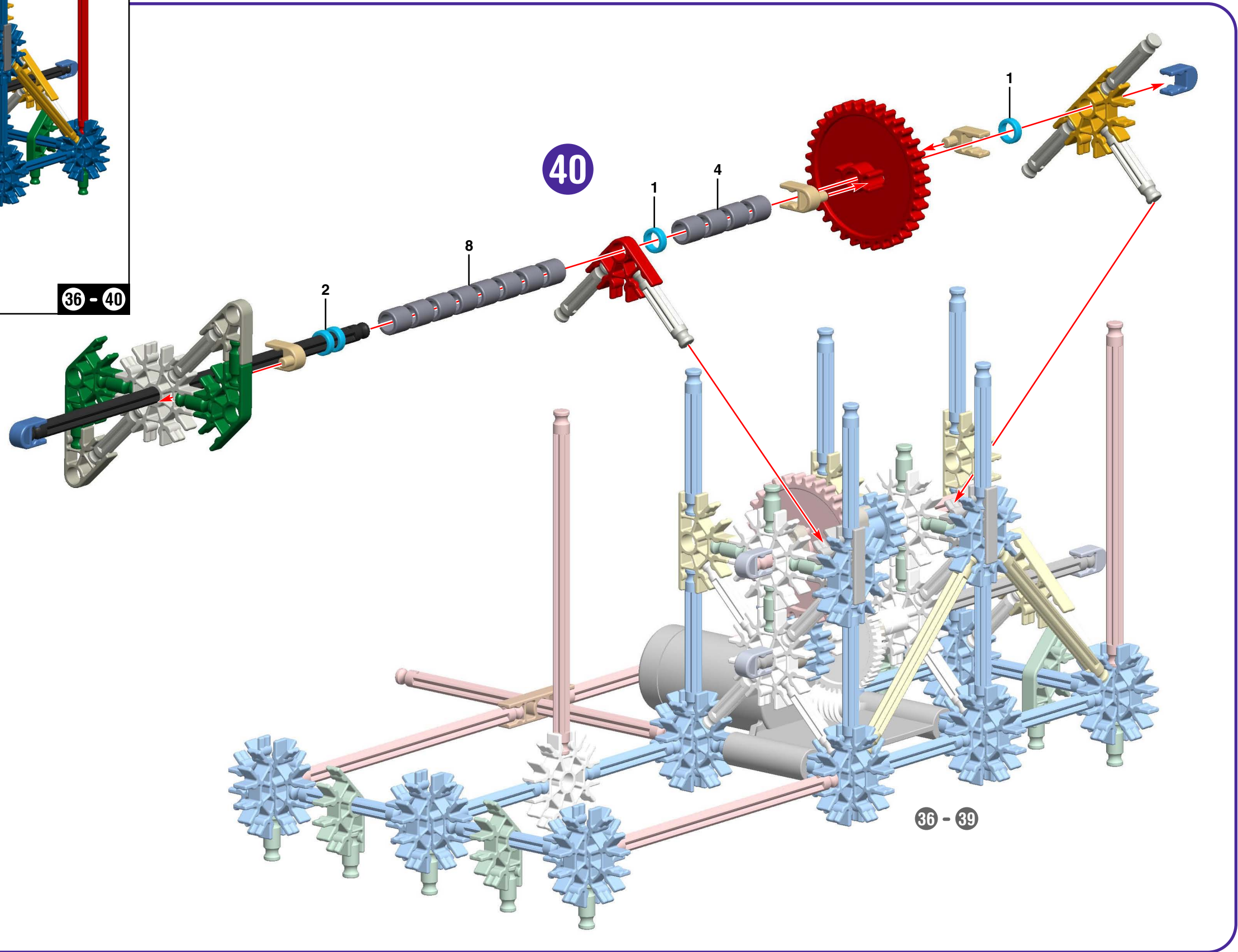
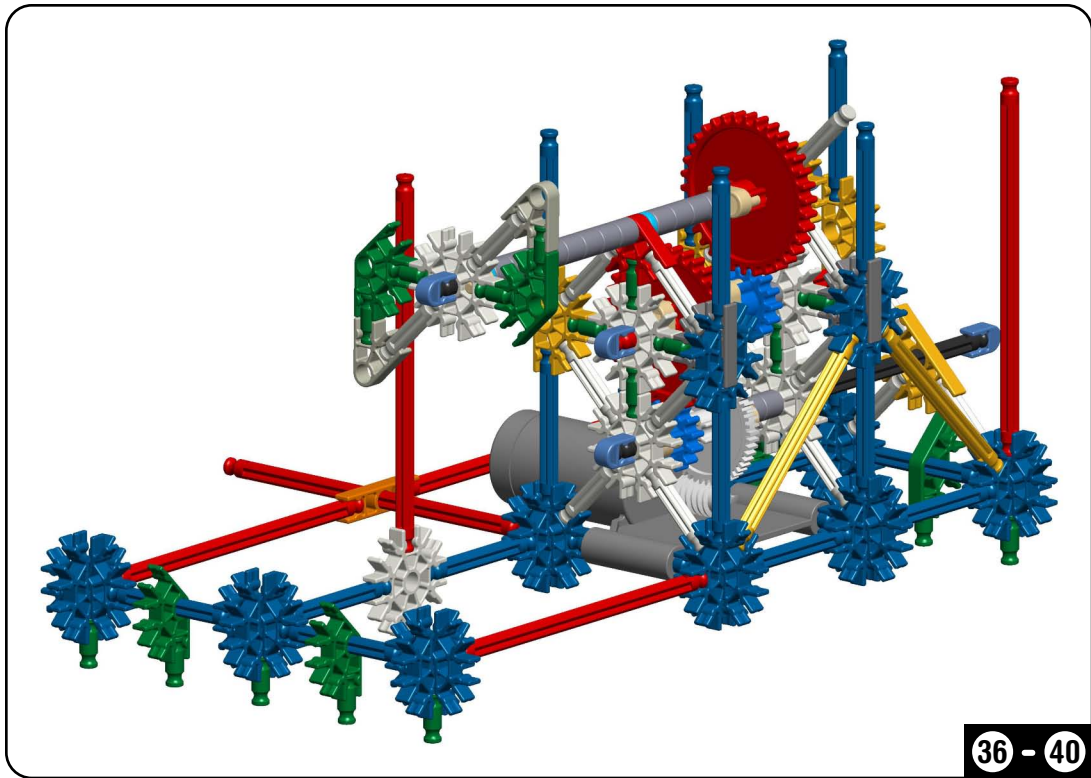






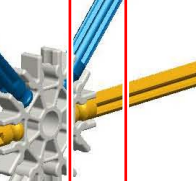
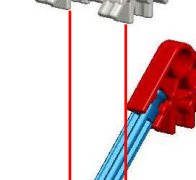
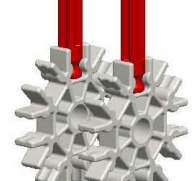
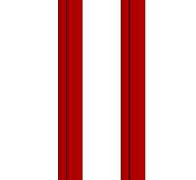
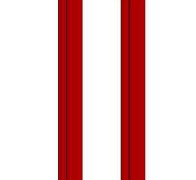
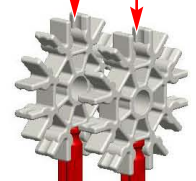
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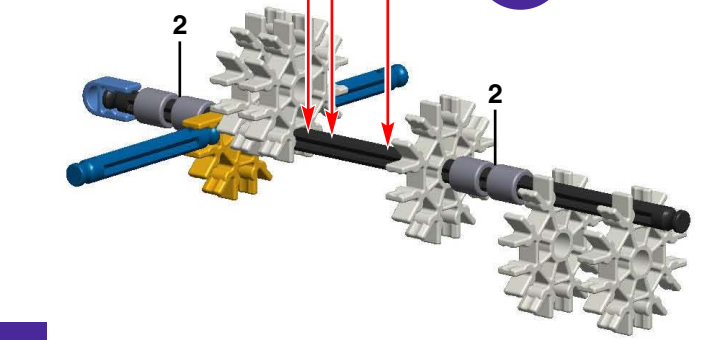




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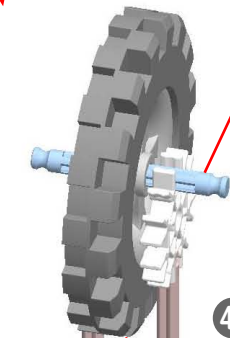
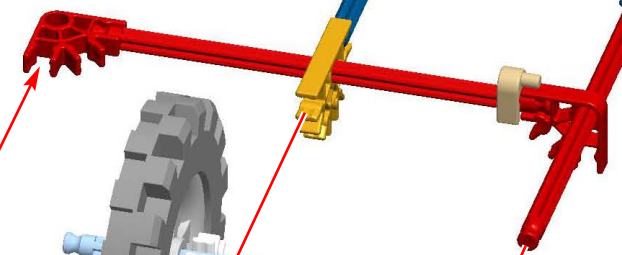
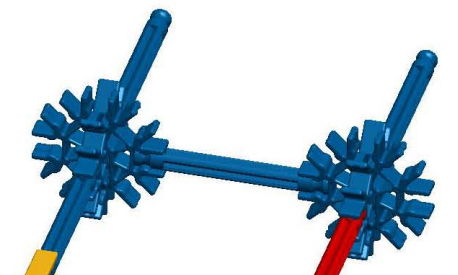
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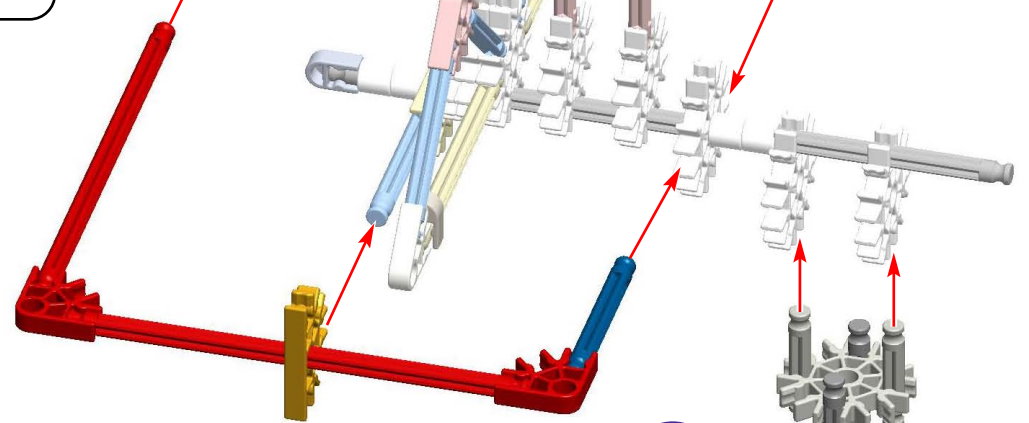
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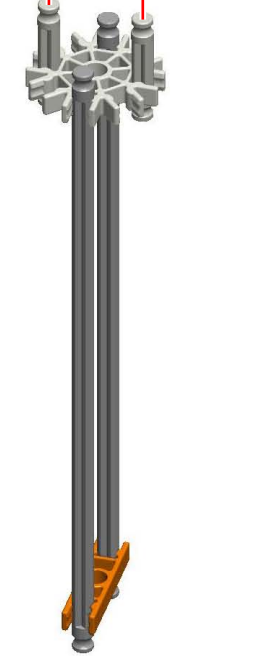
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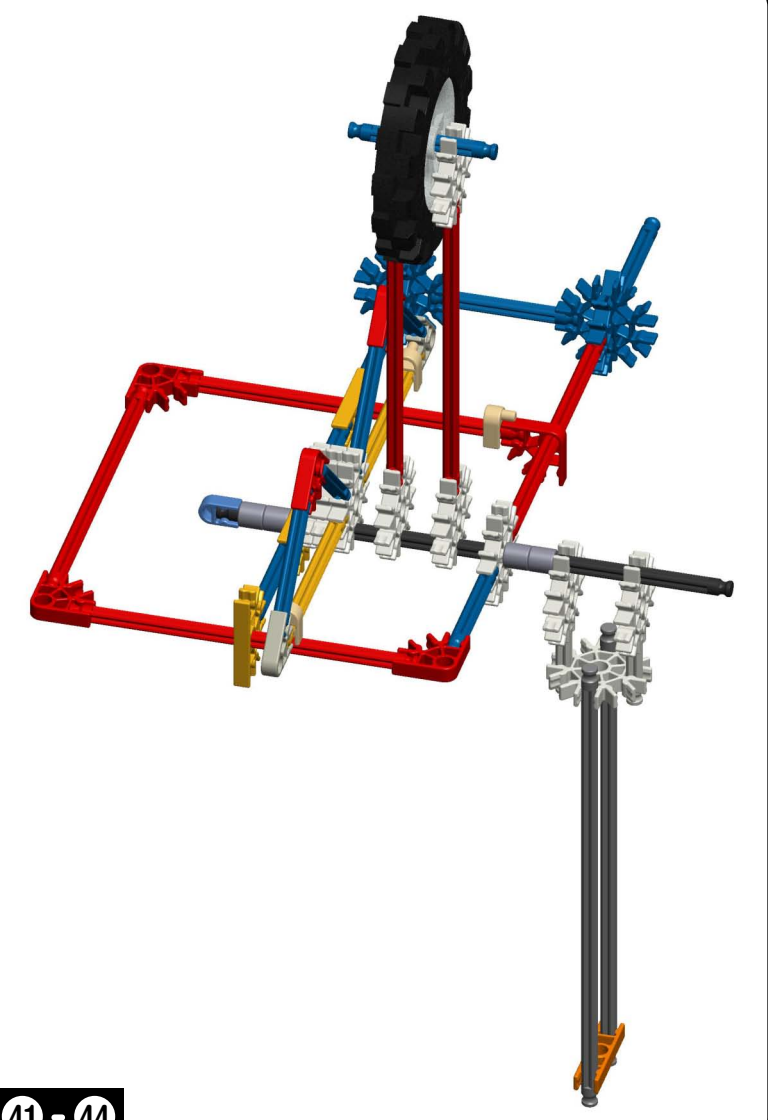
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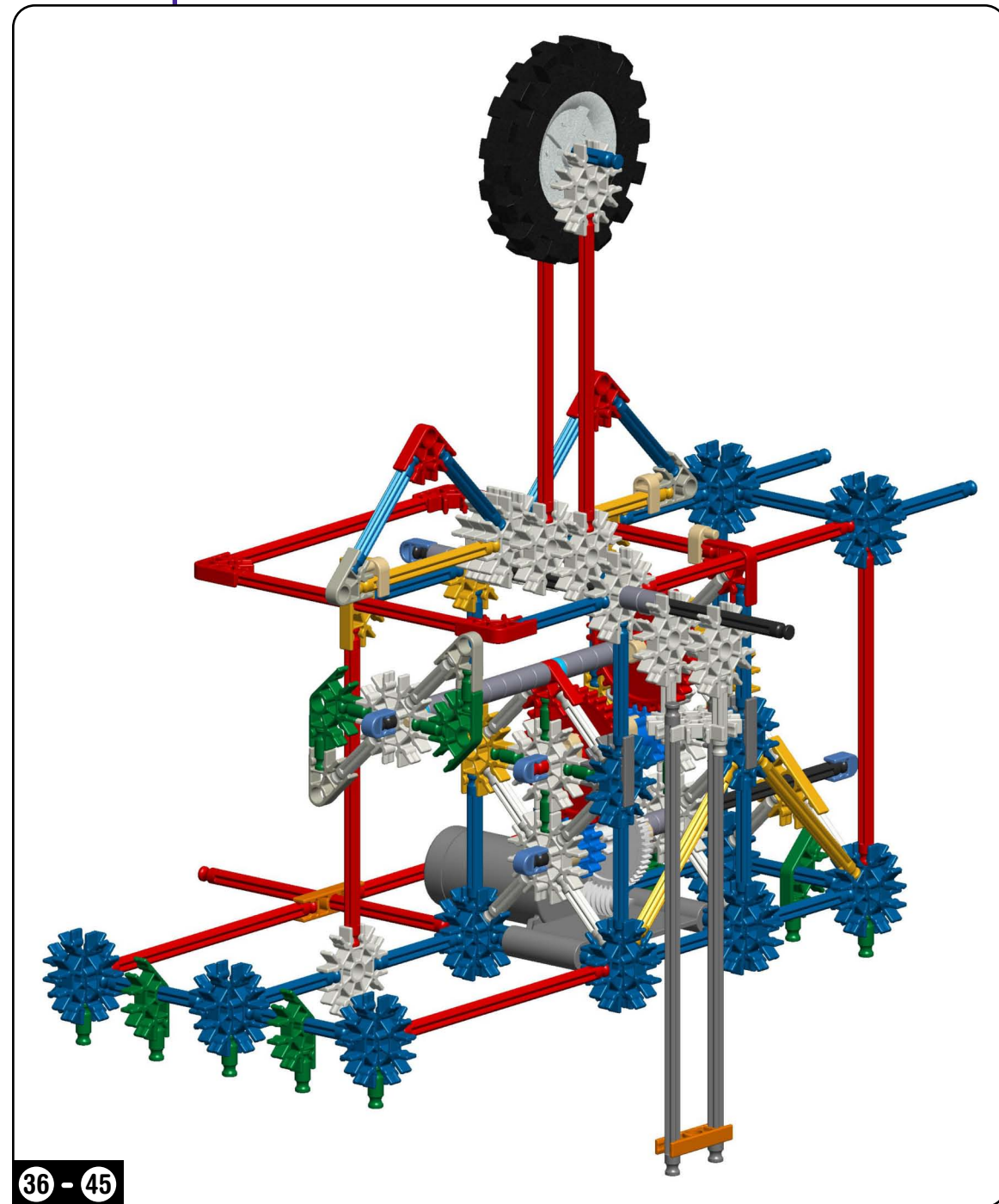
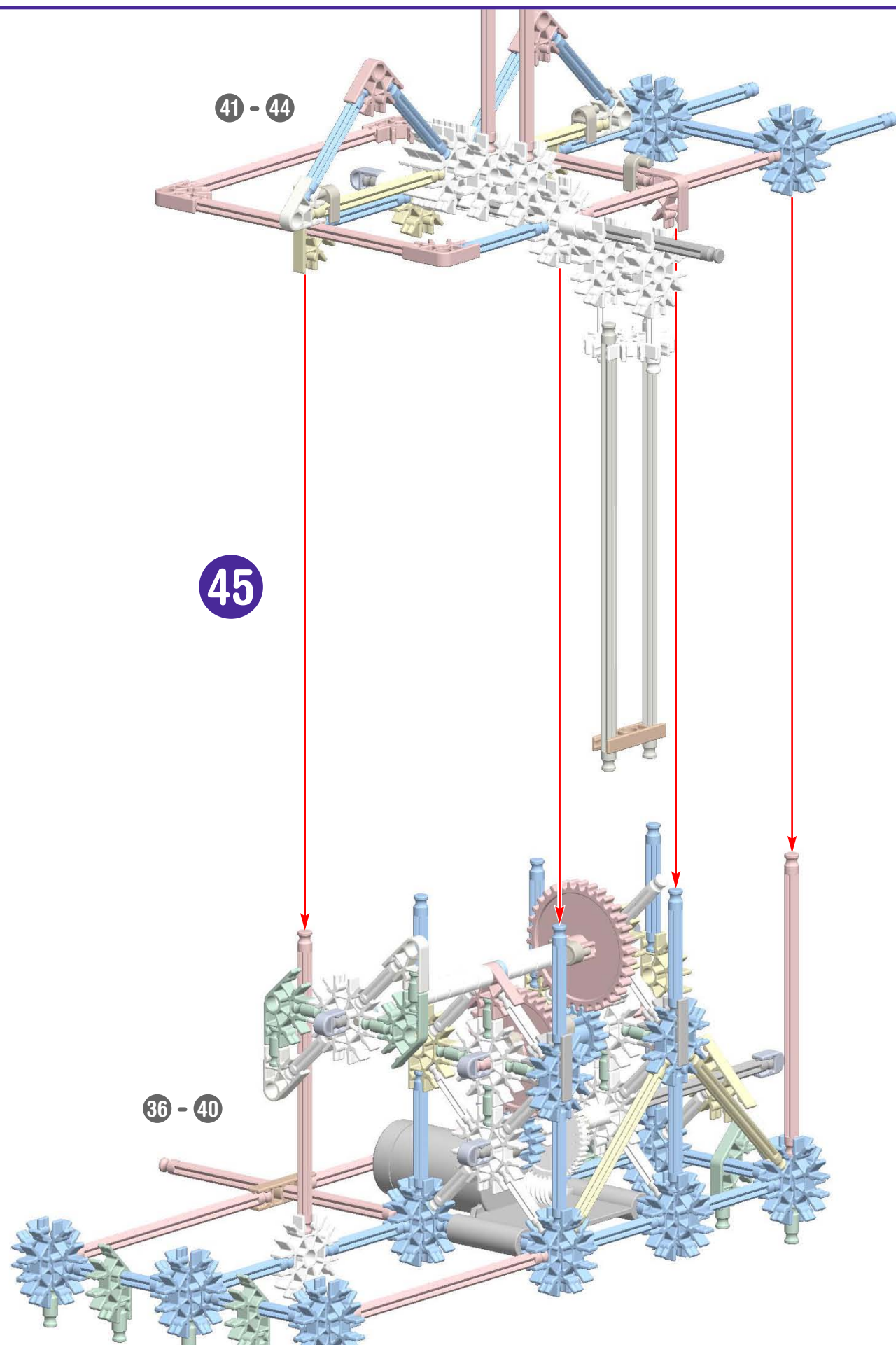


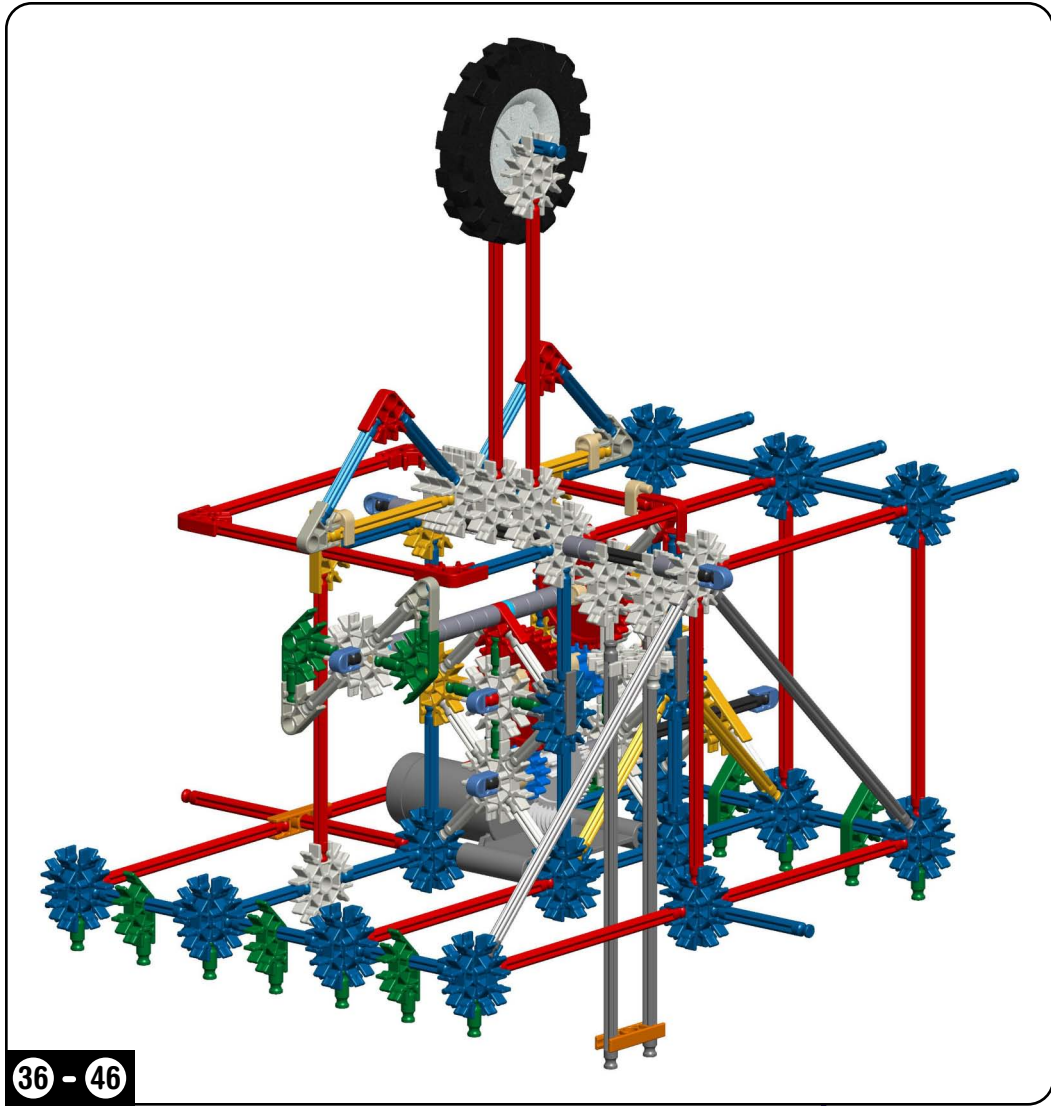
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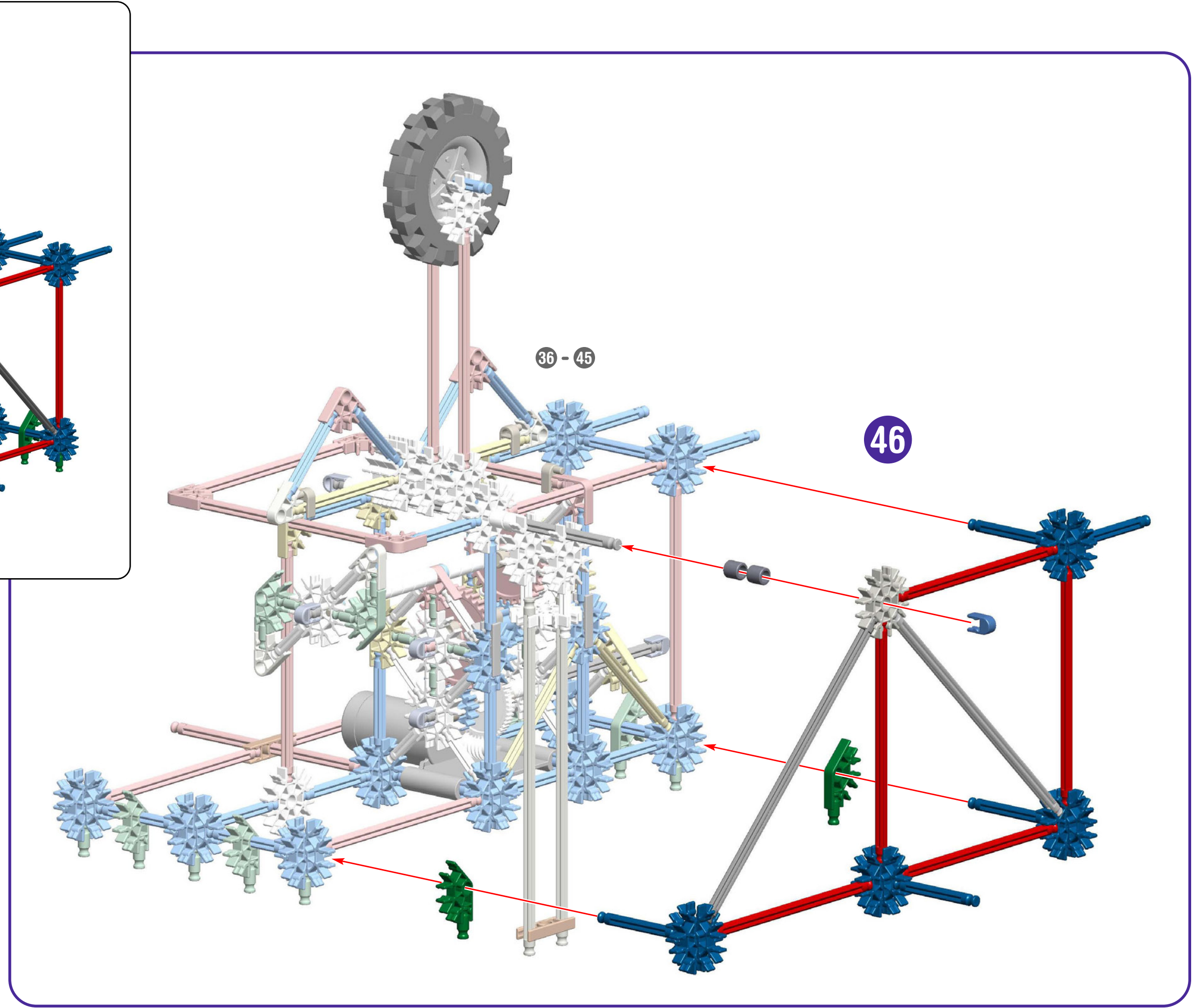
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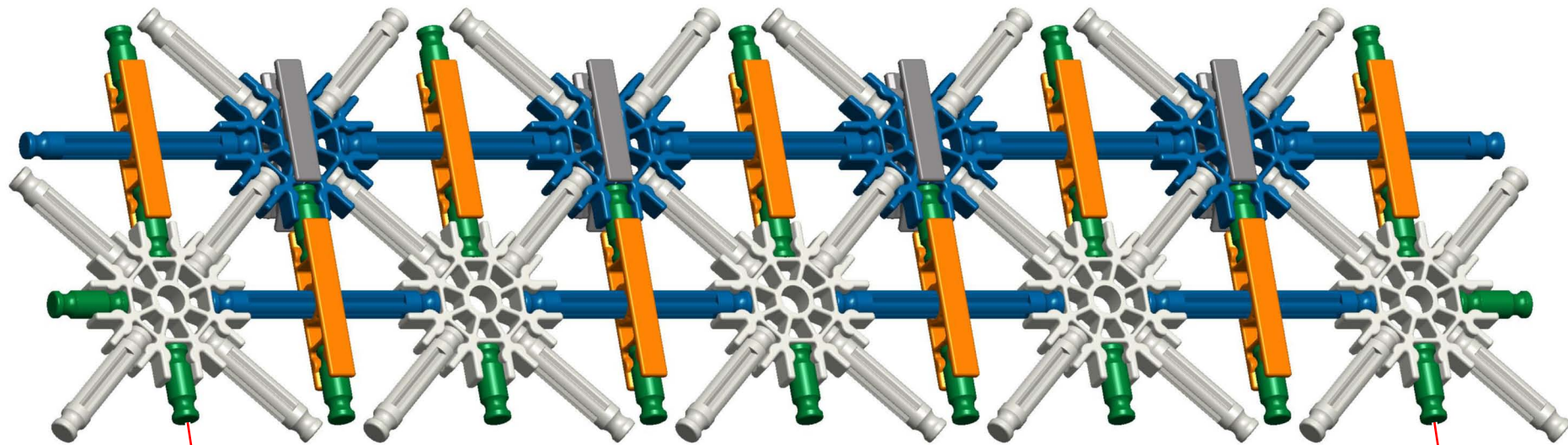


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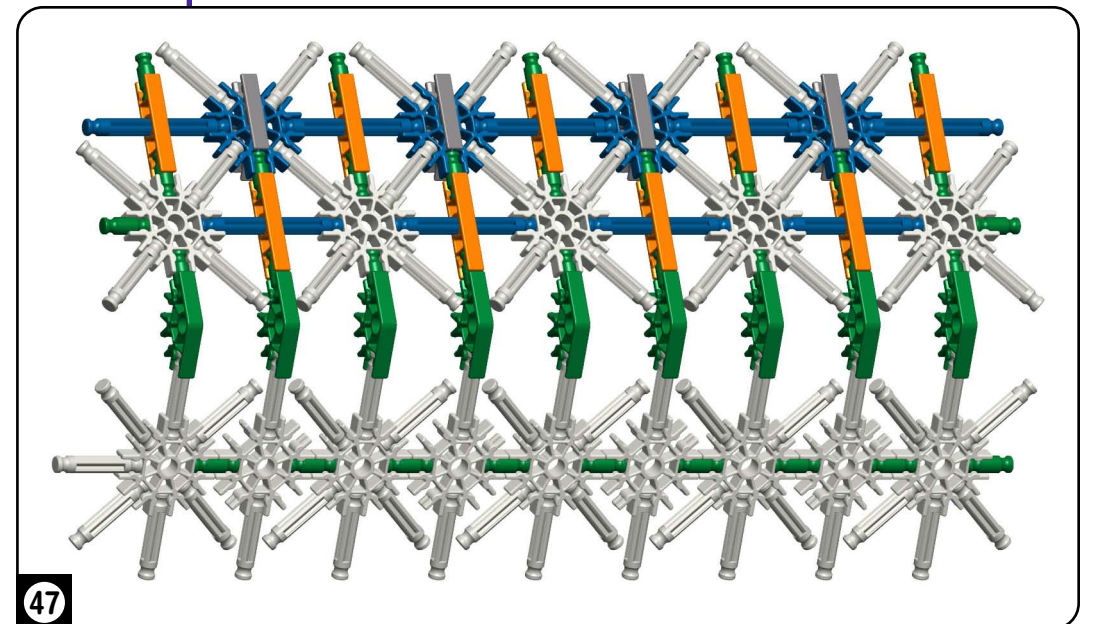
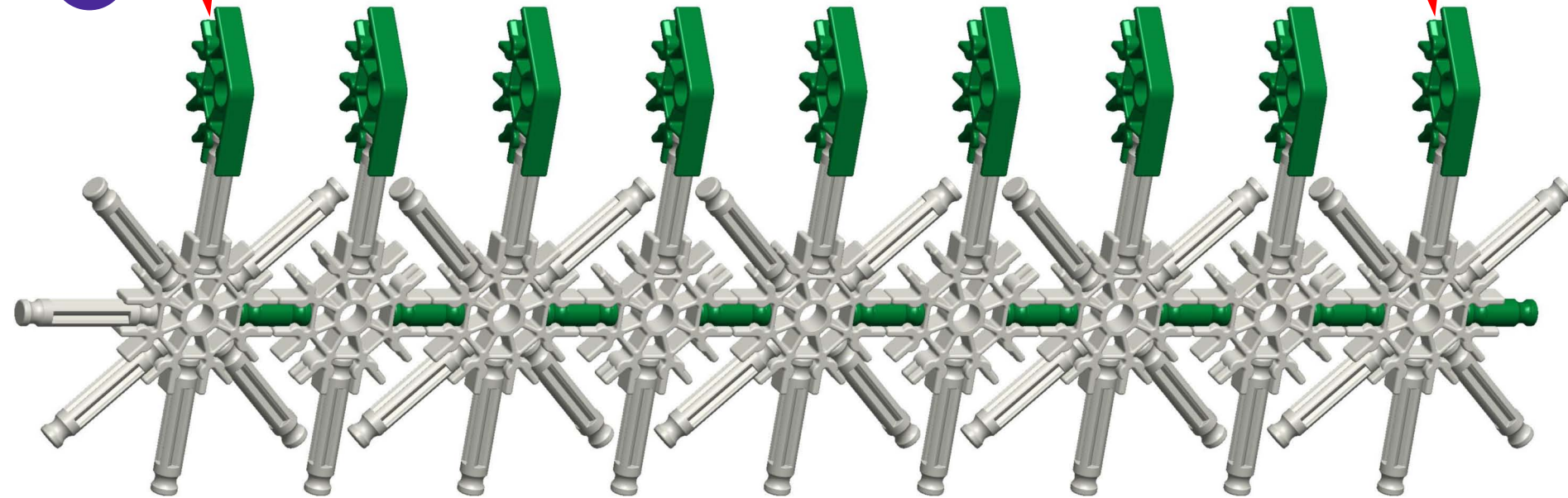


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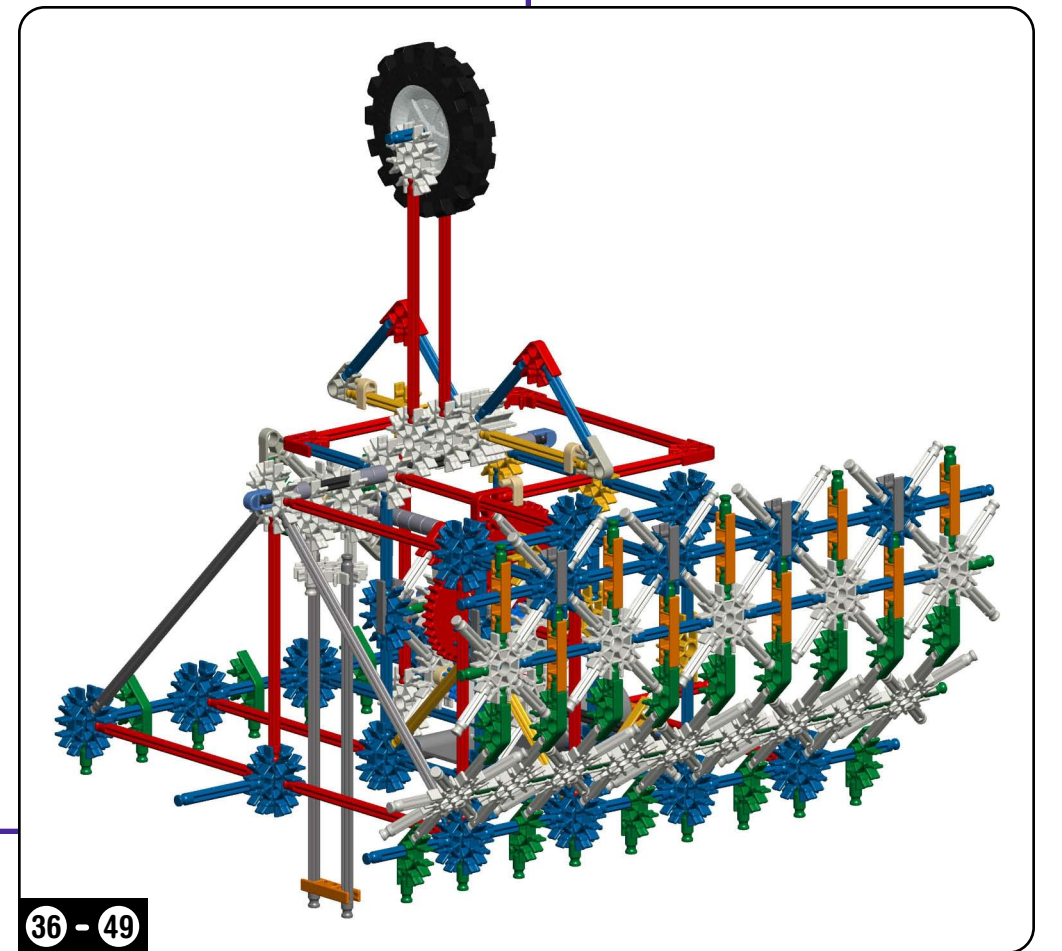
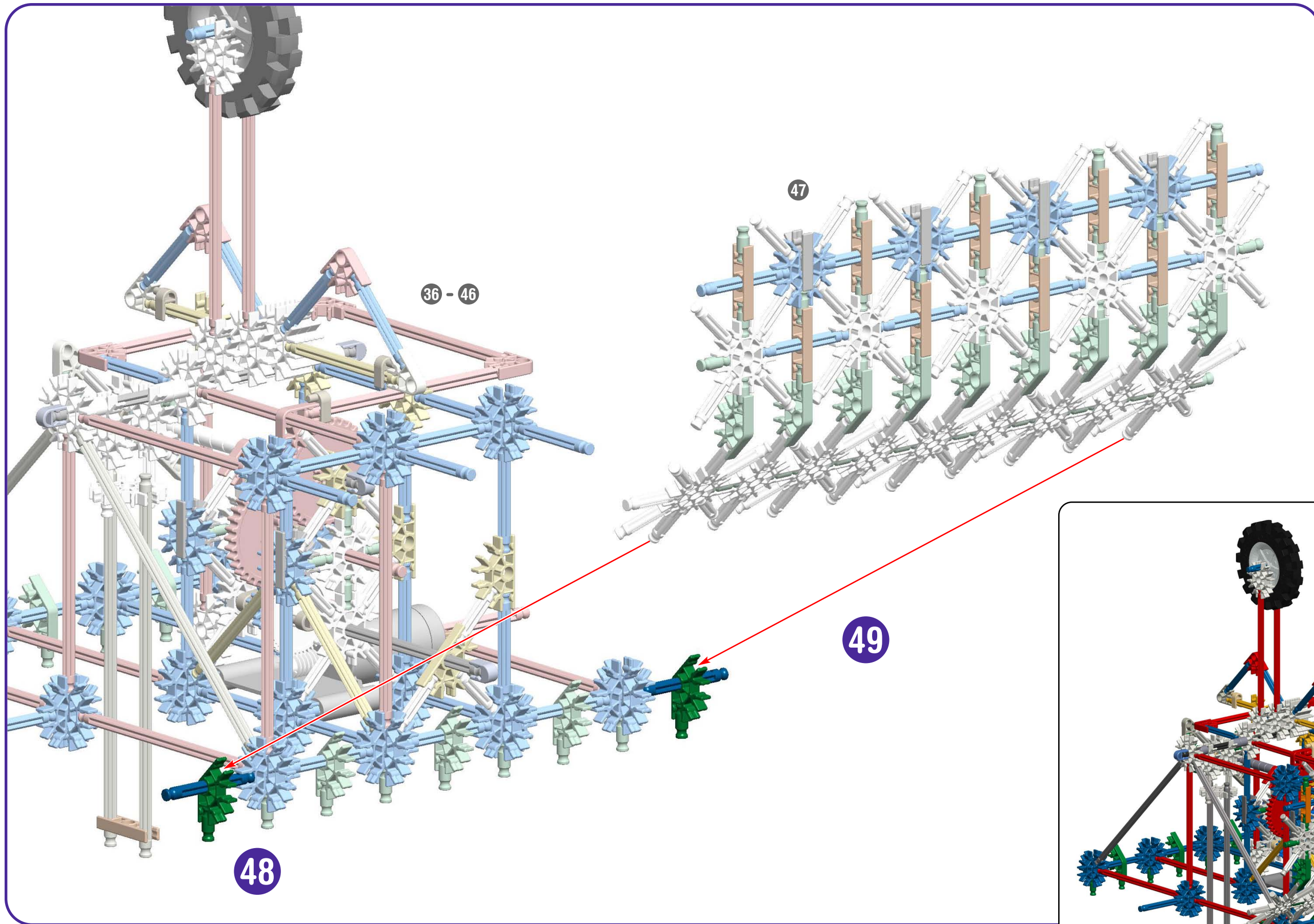


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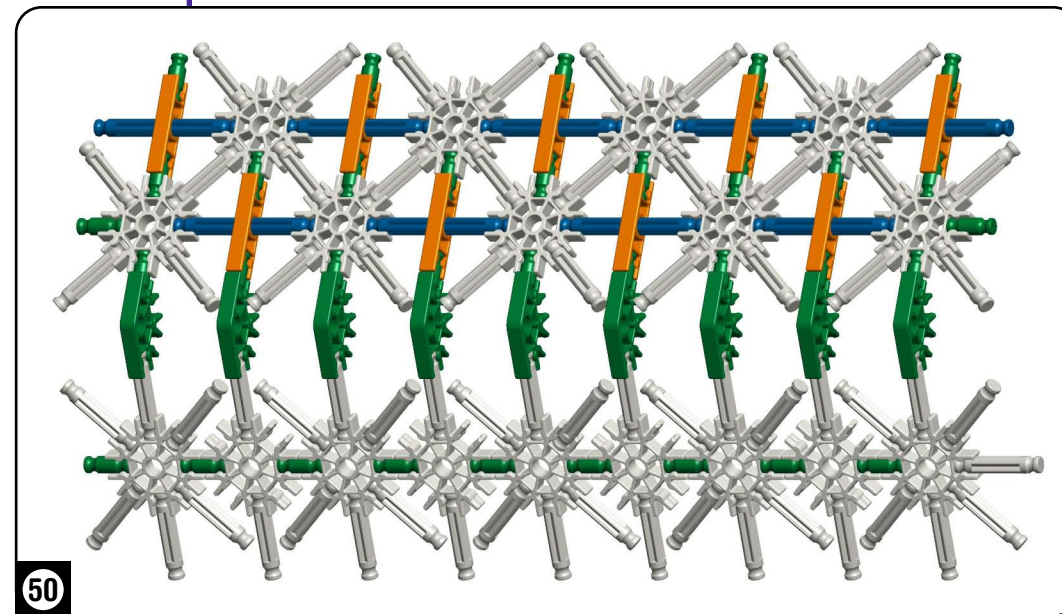
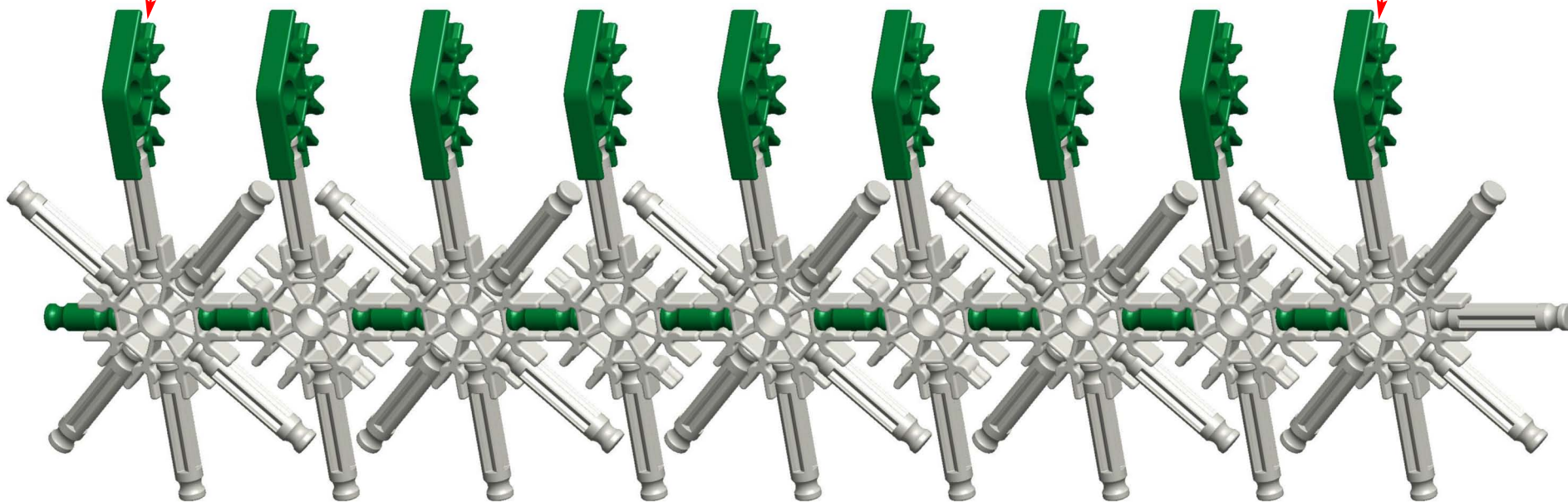
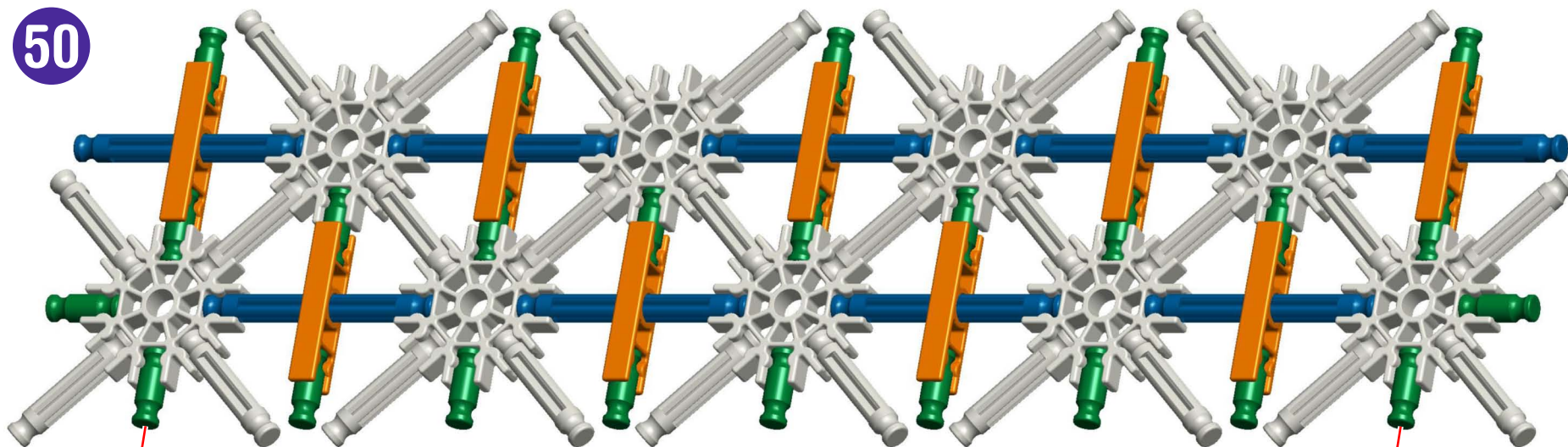


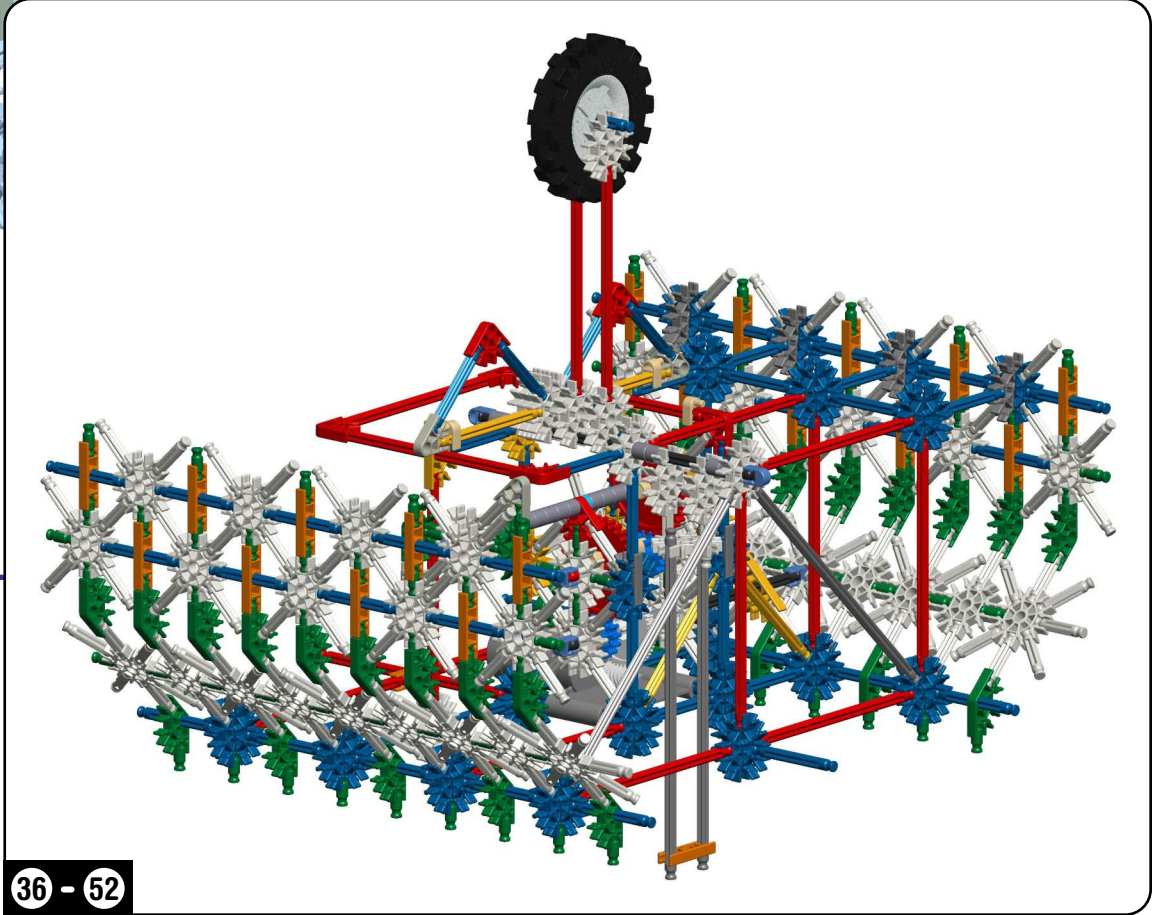
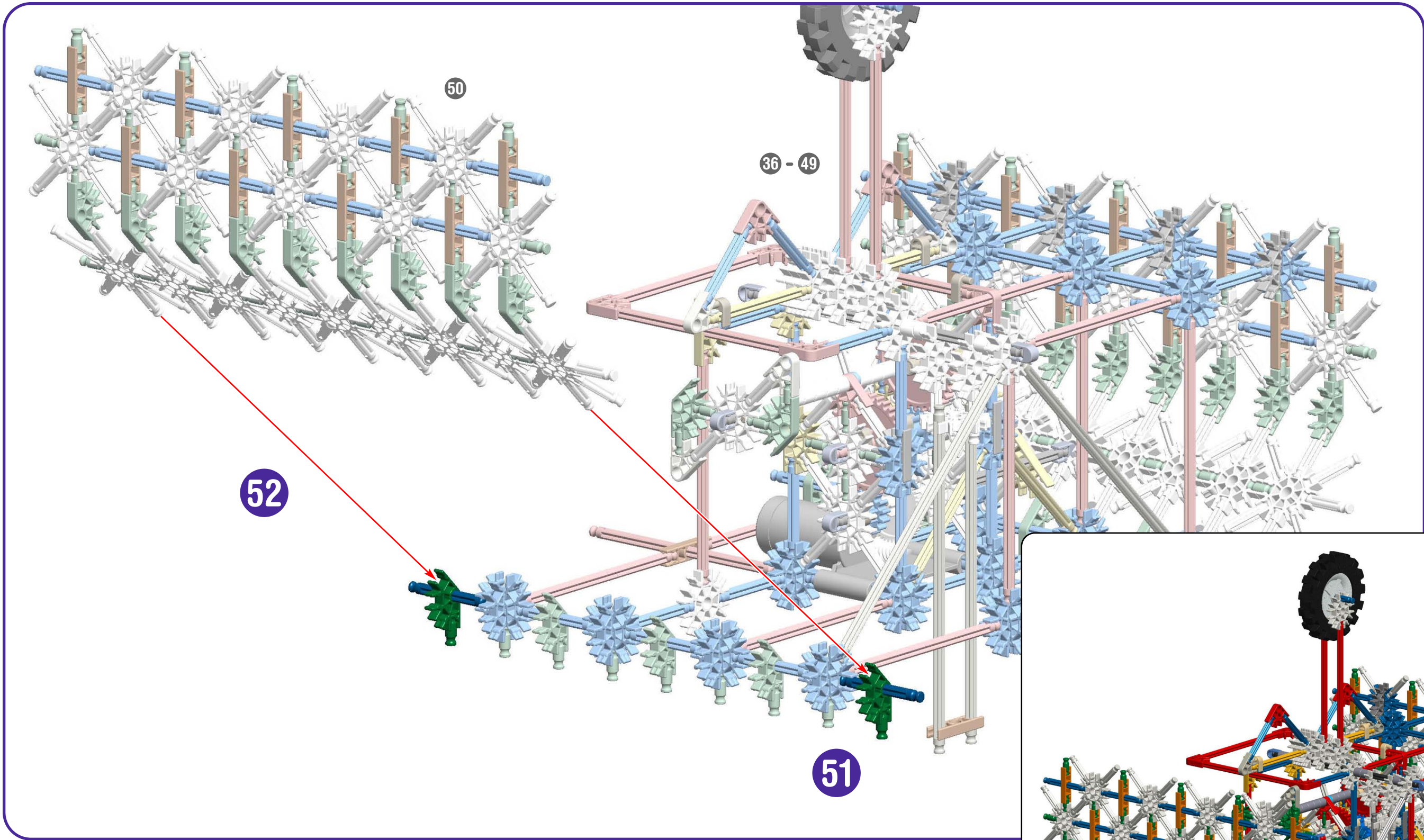
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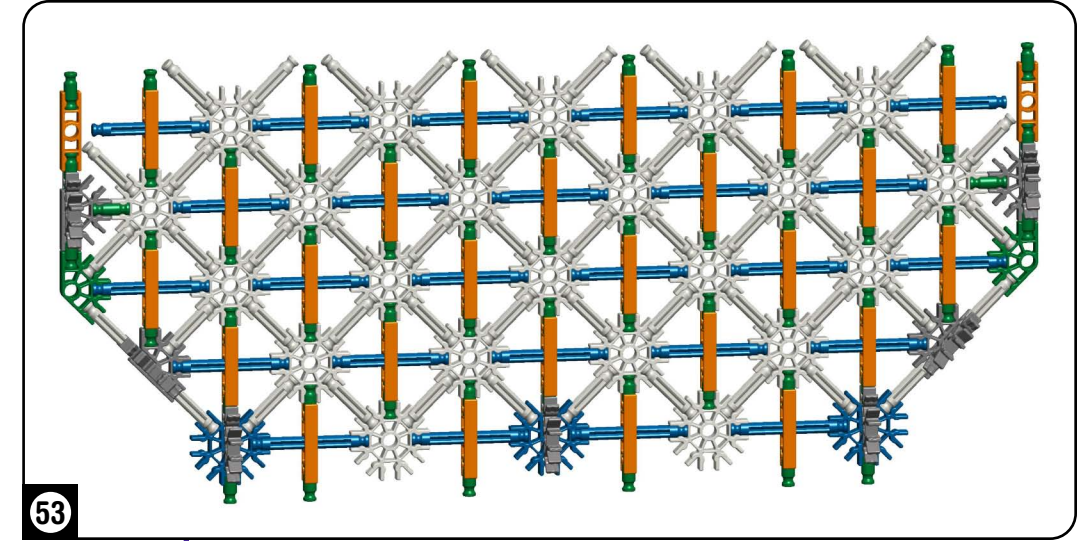
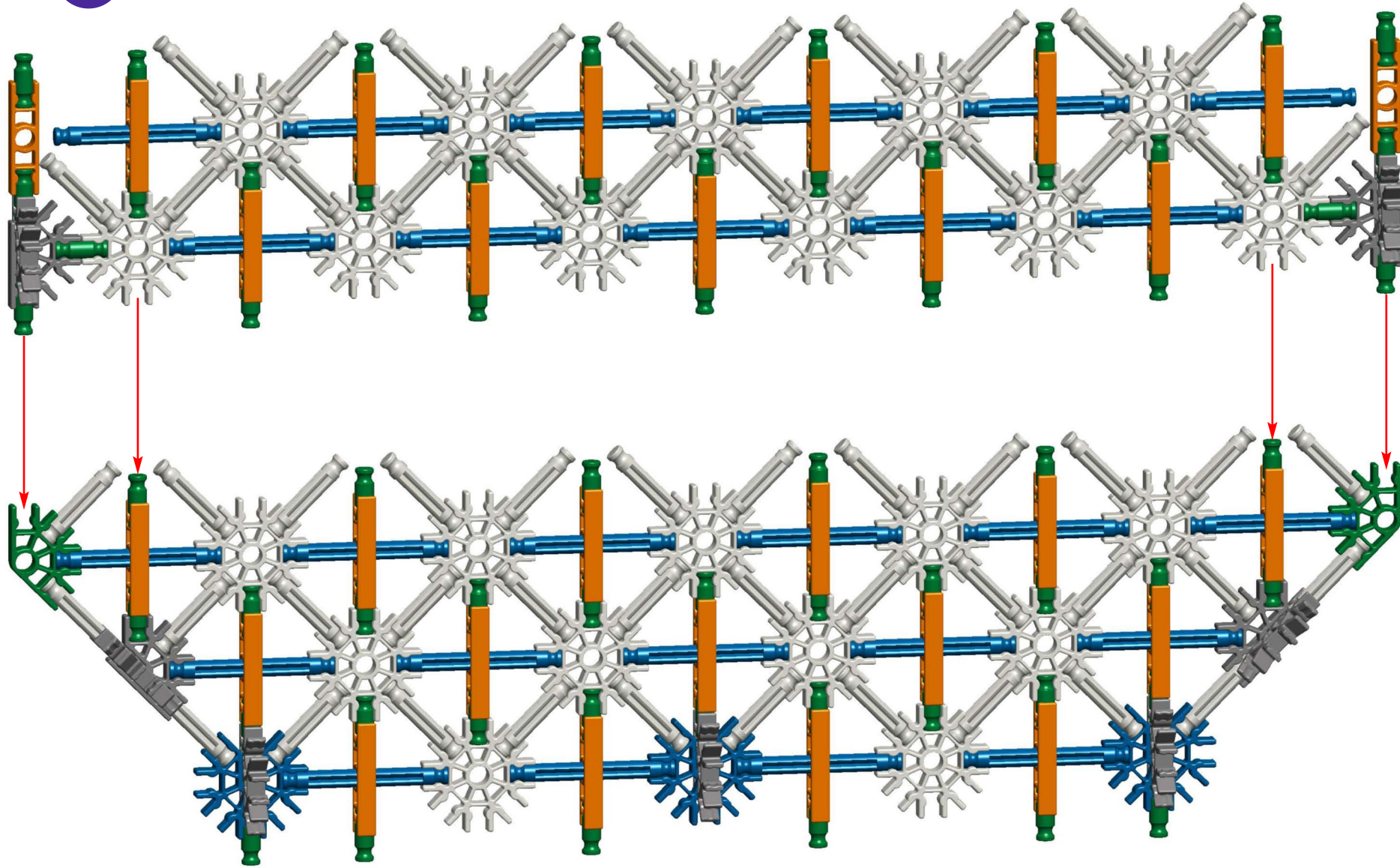


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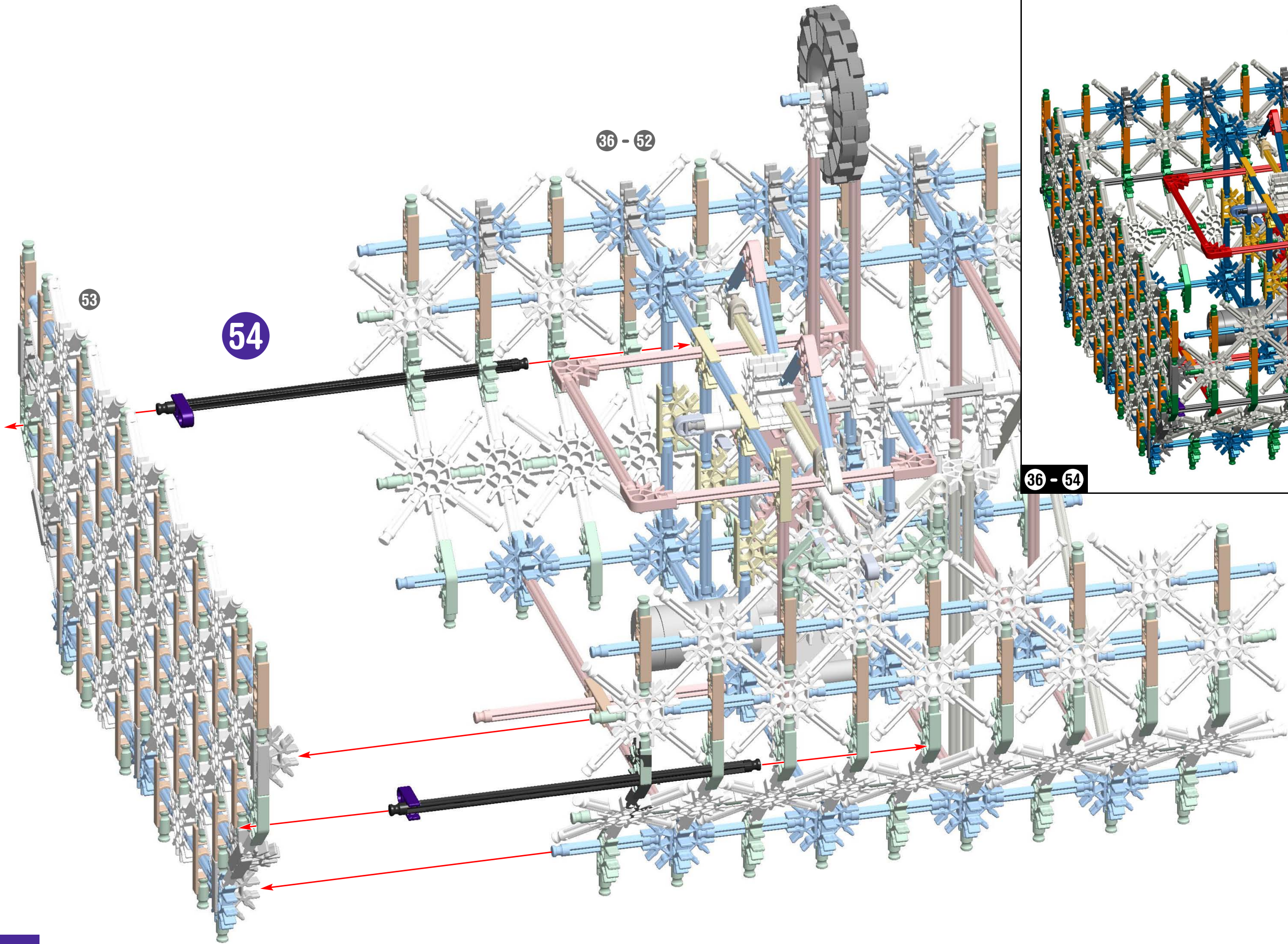
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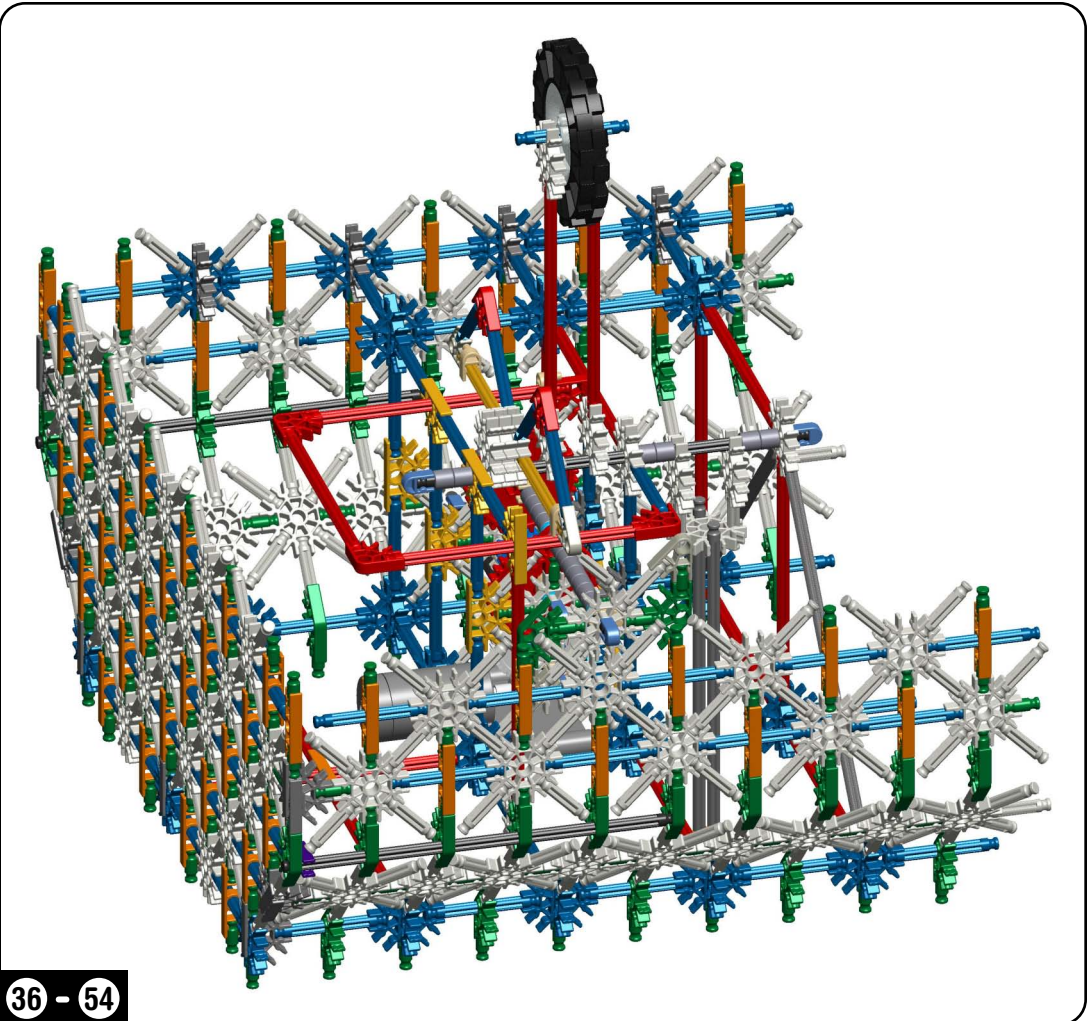
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53



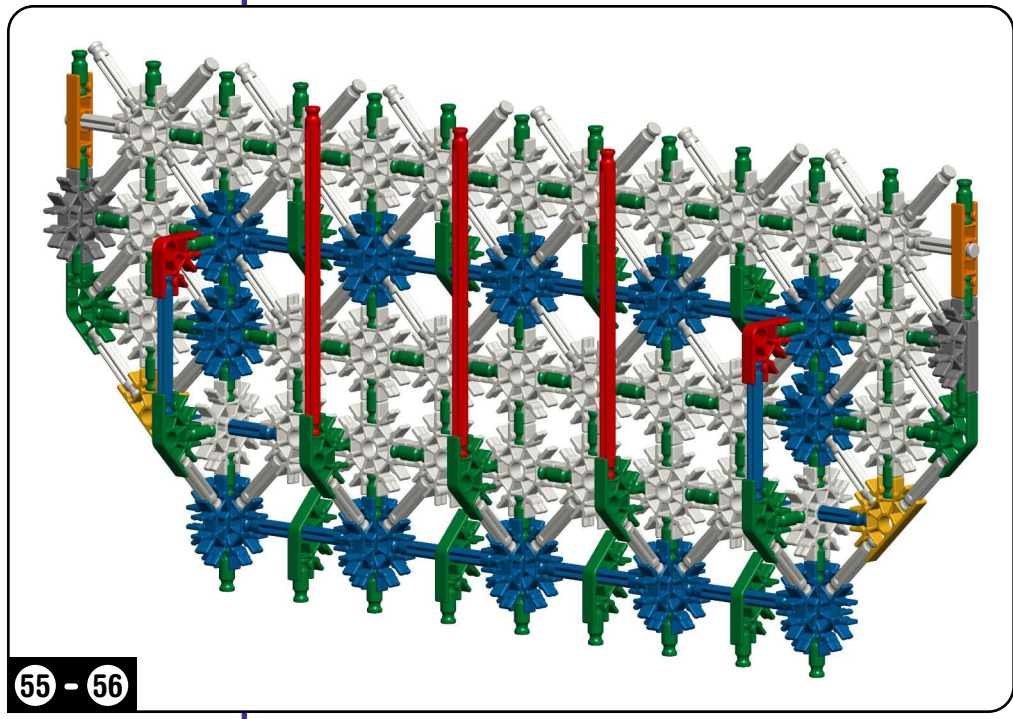
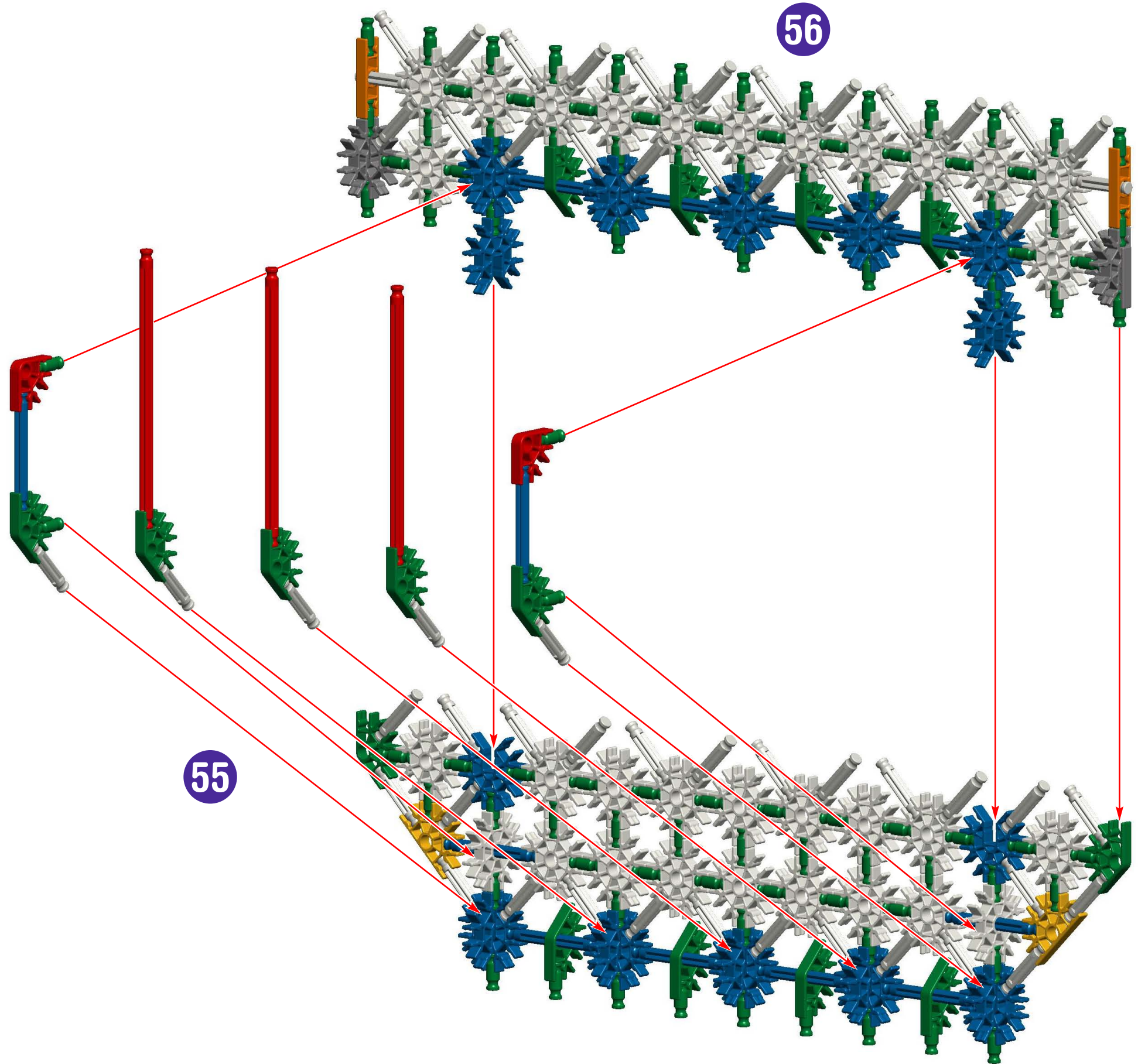
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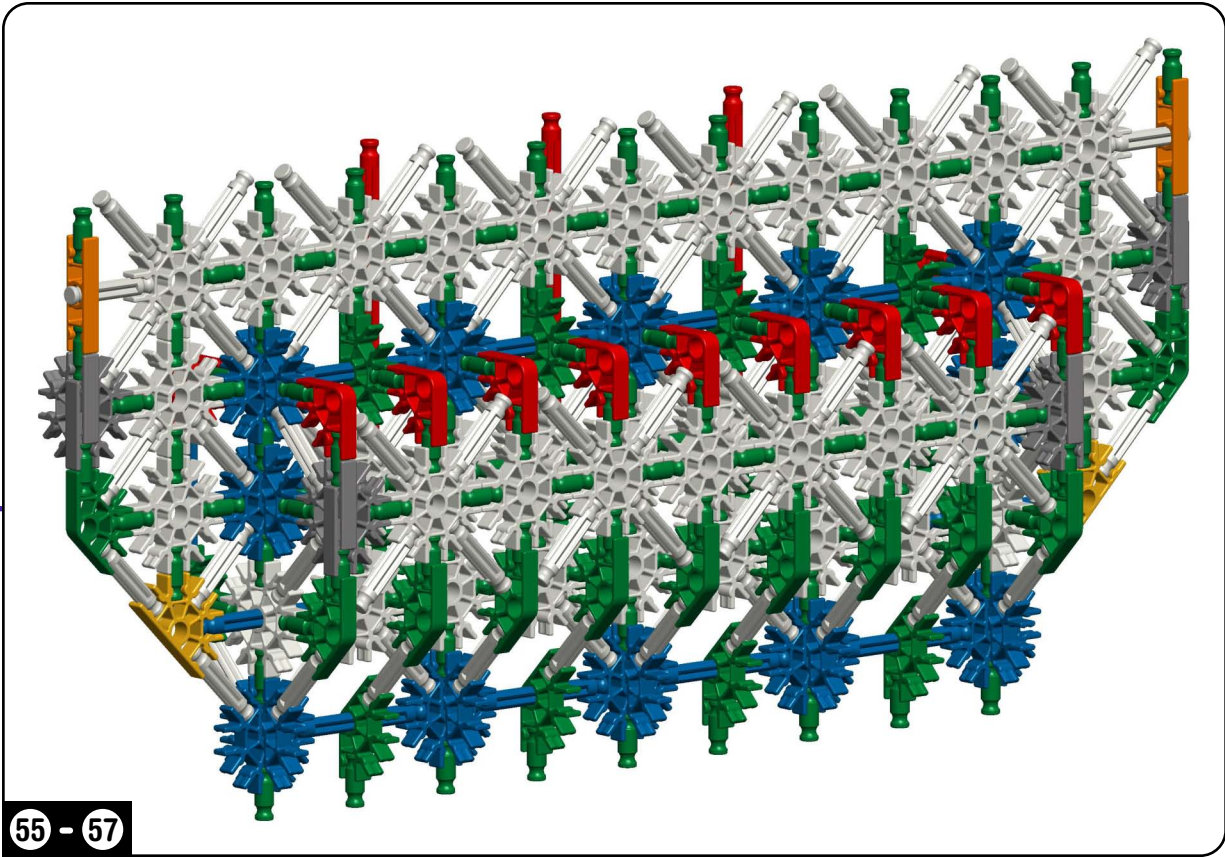
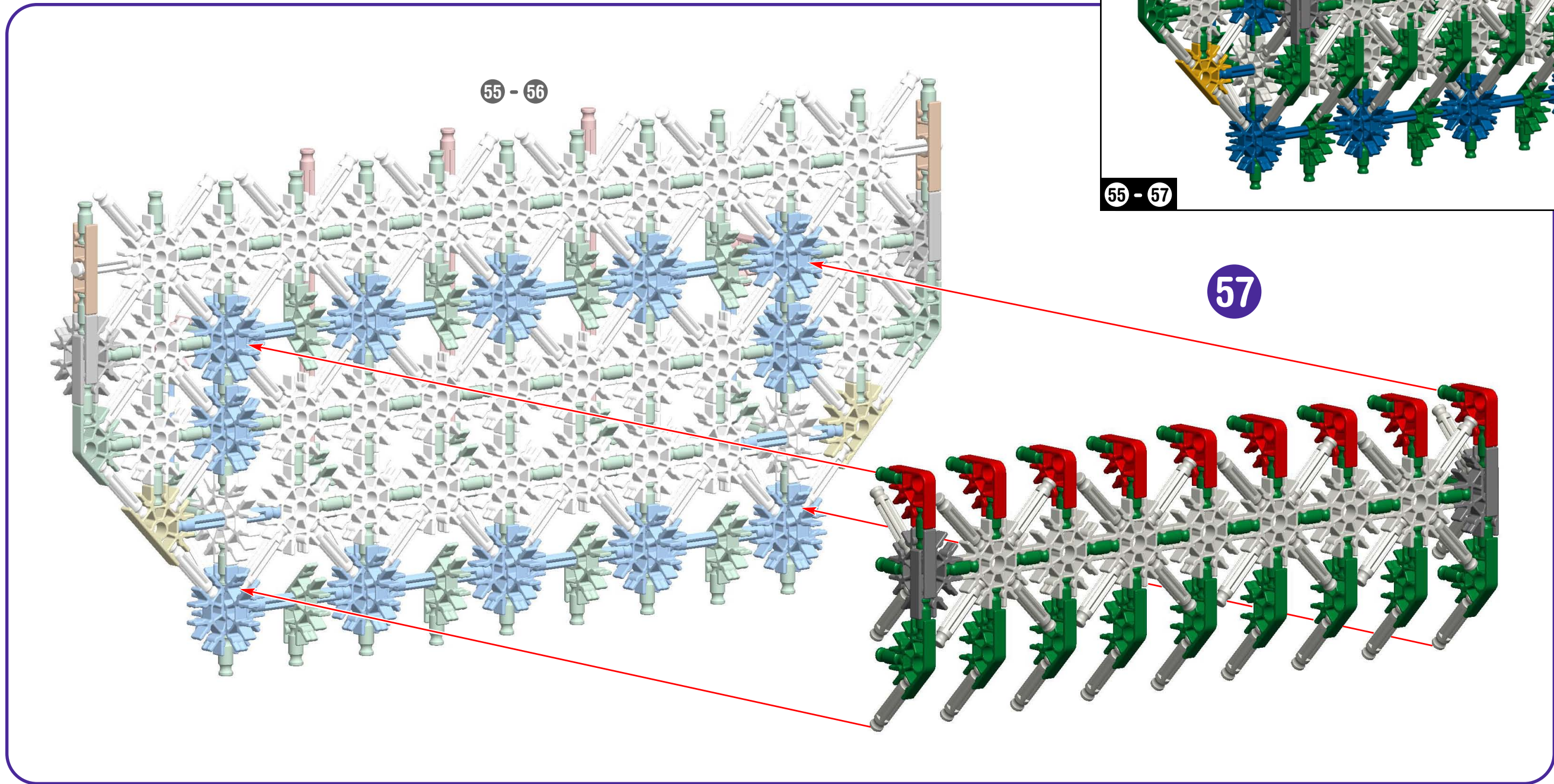


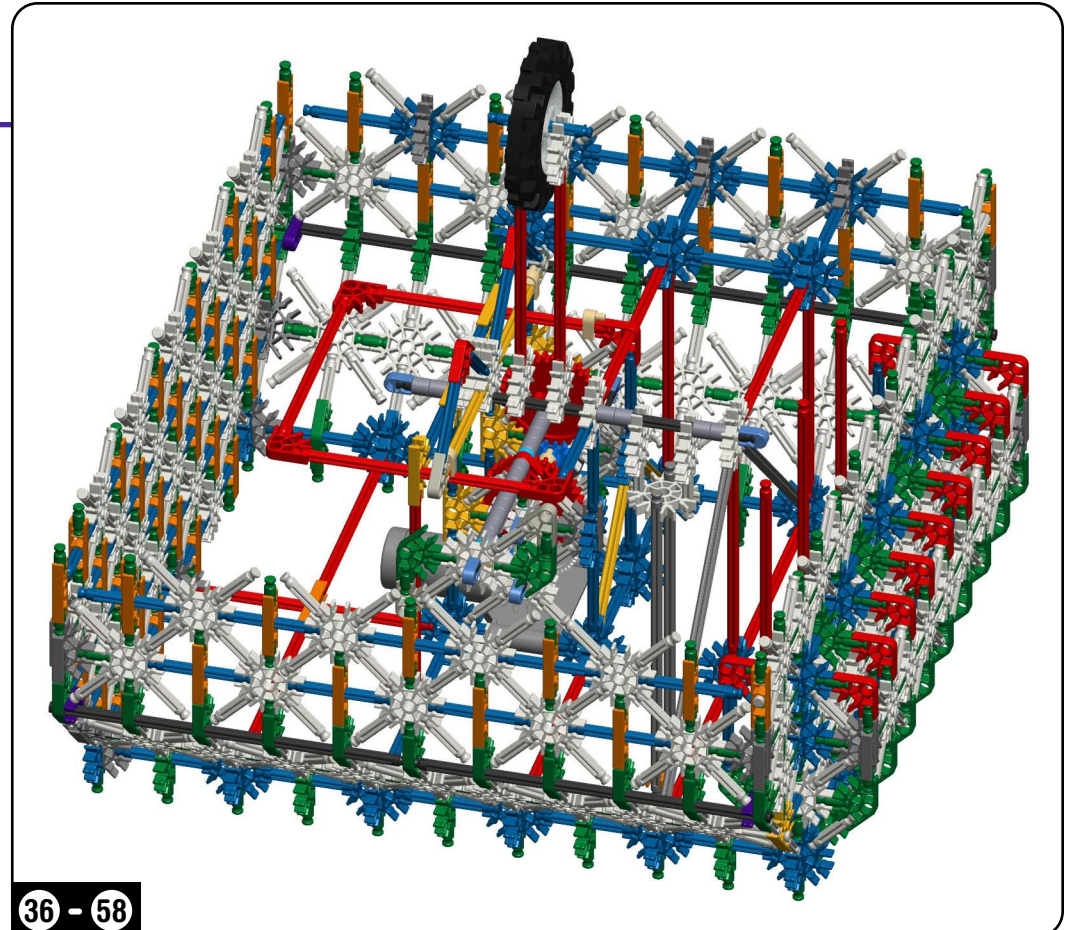
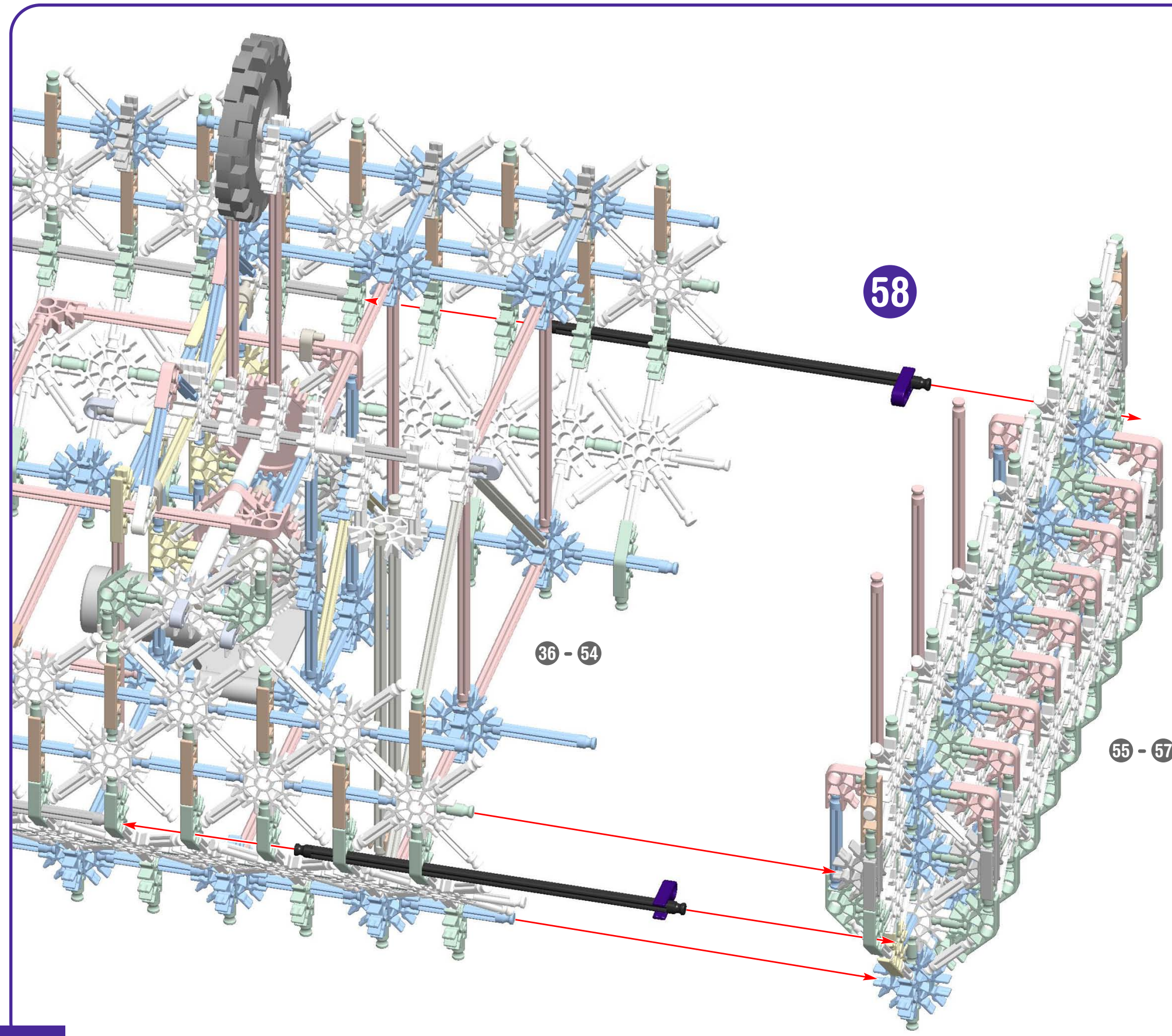
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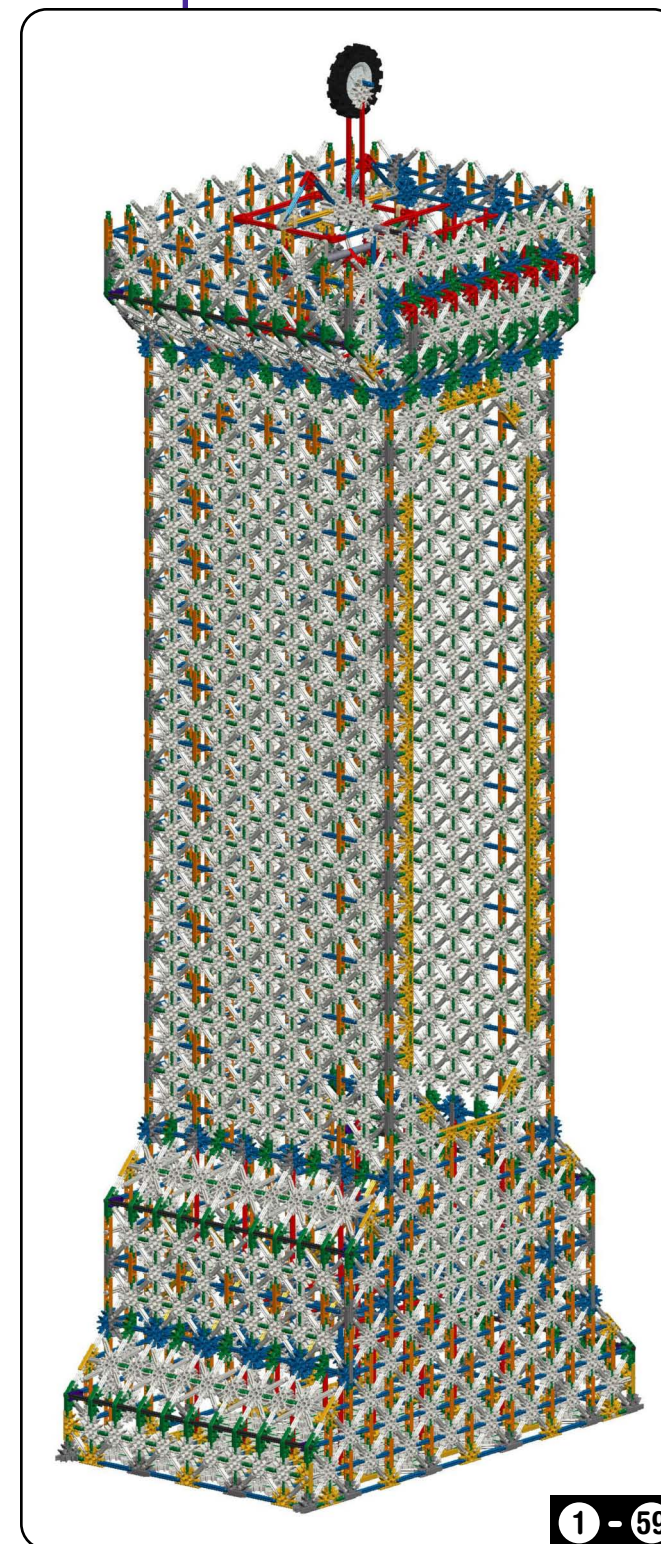
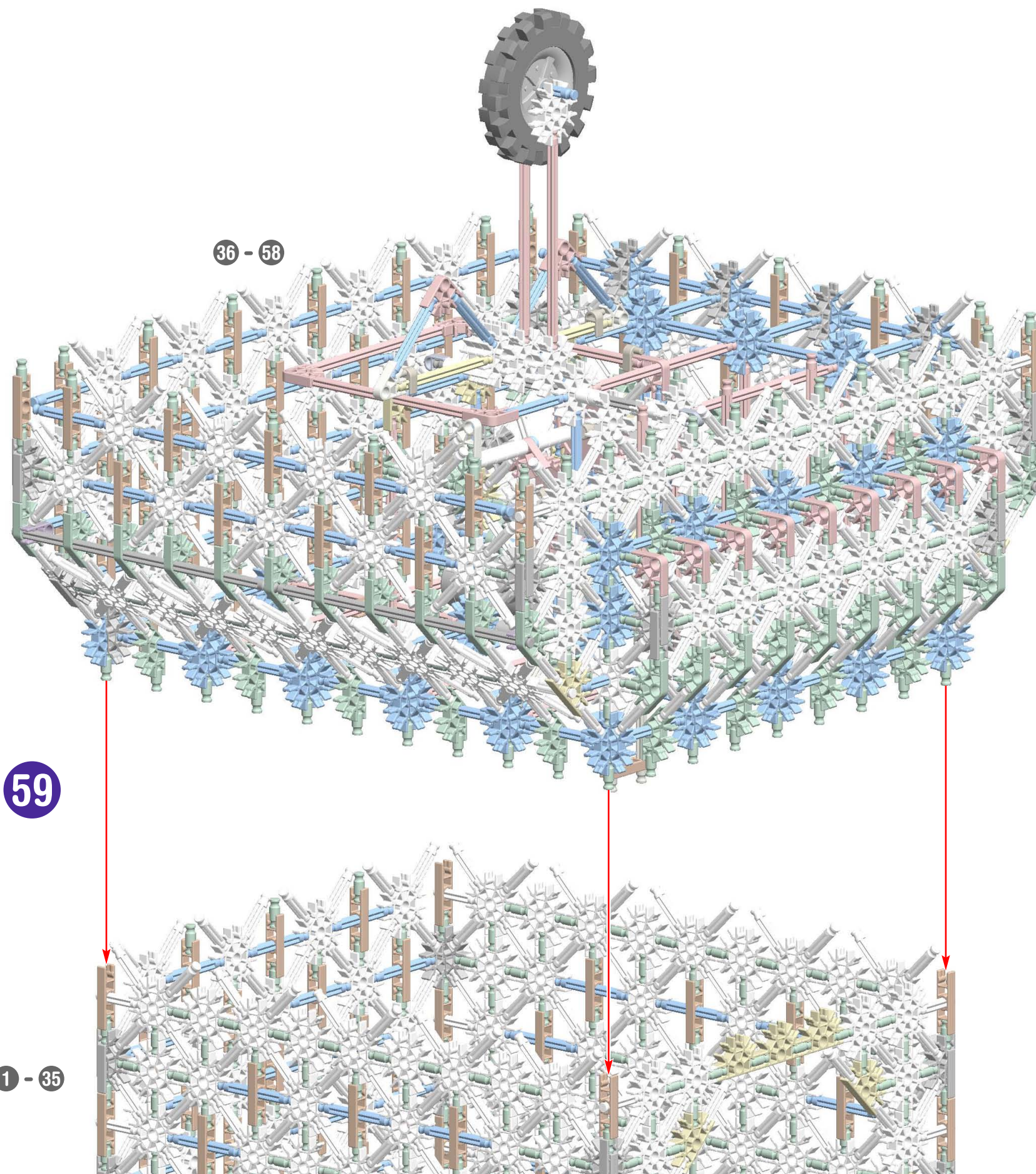
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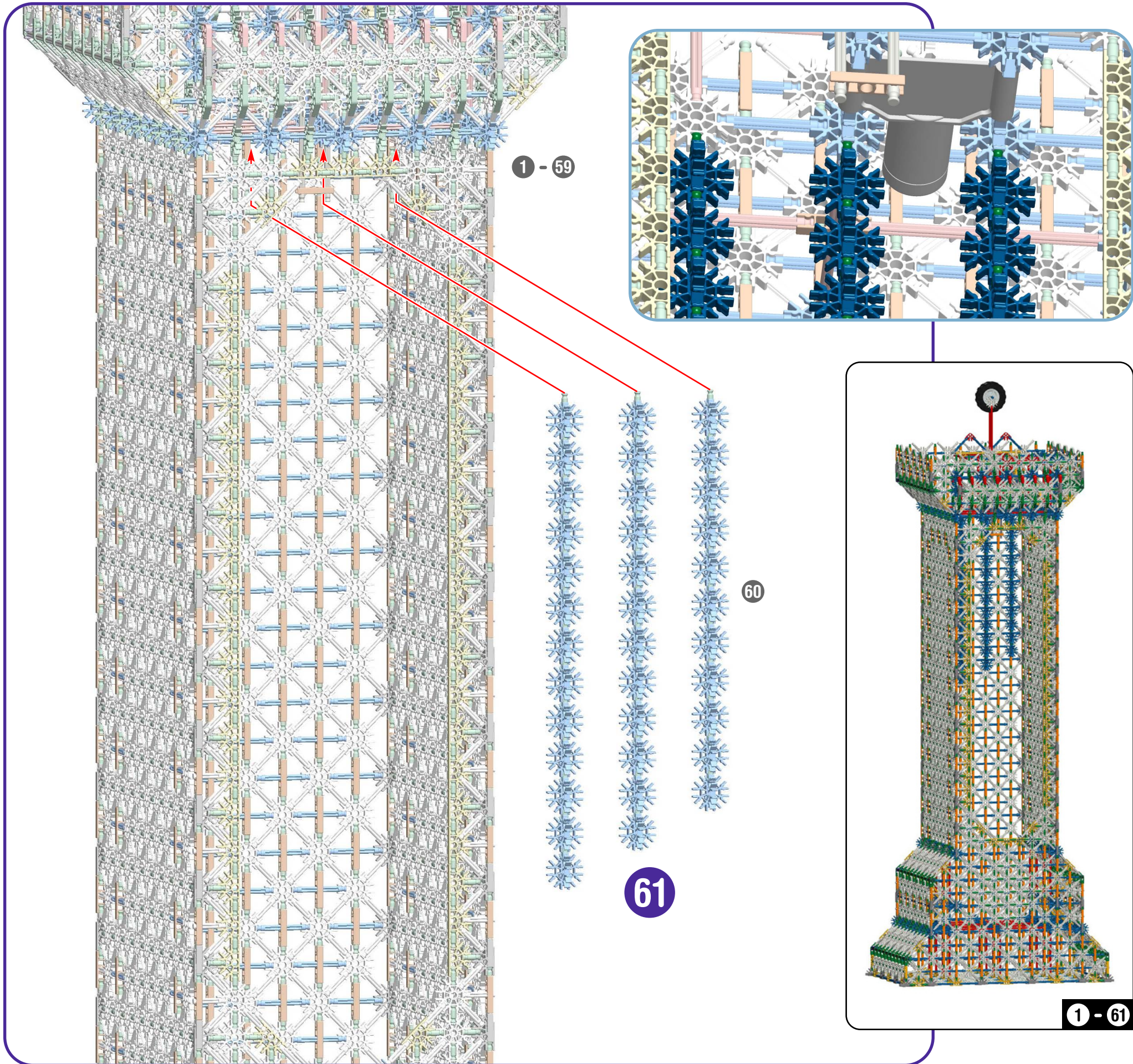
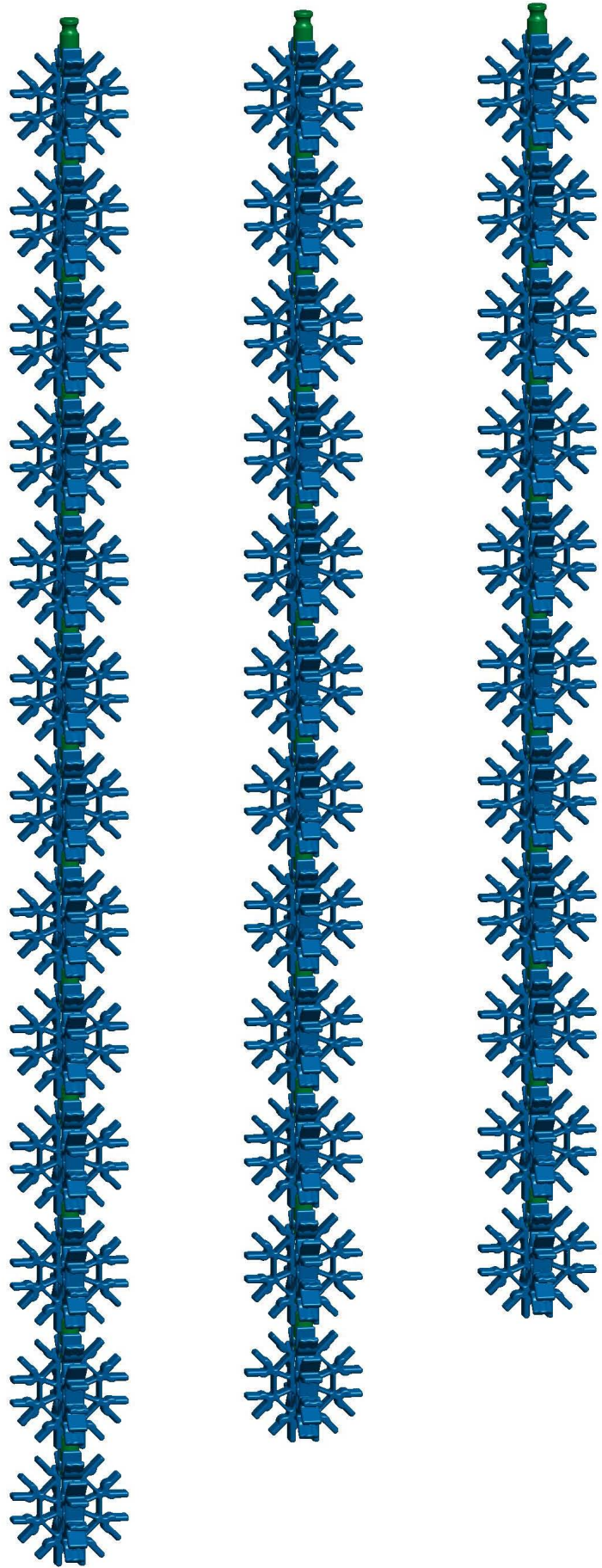


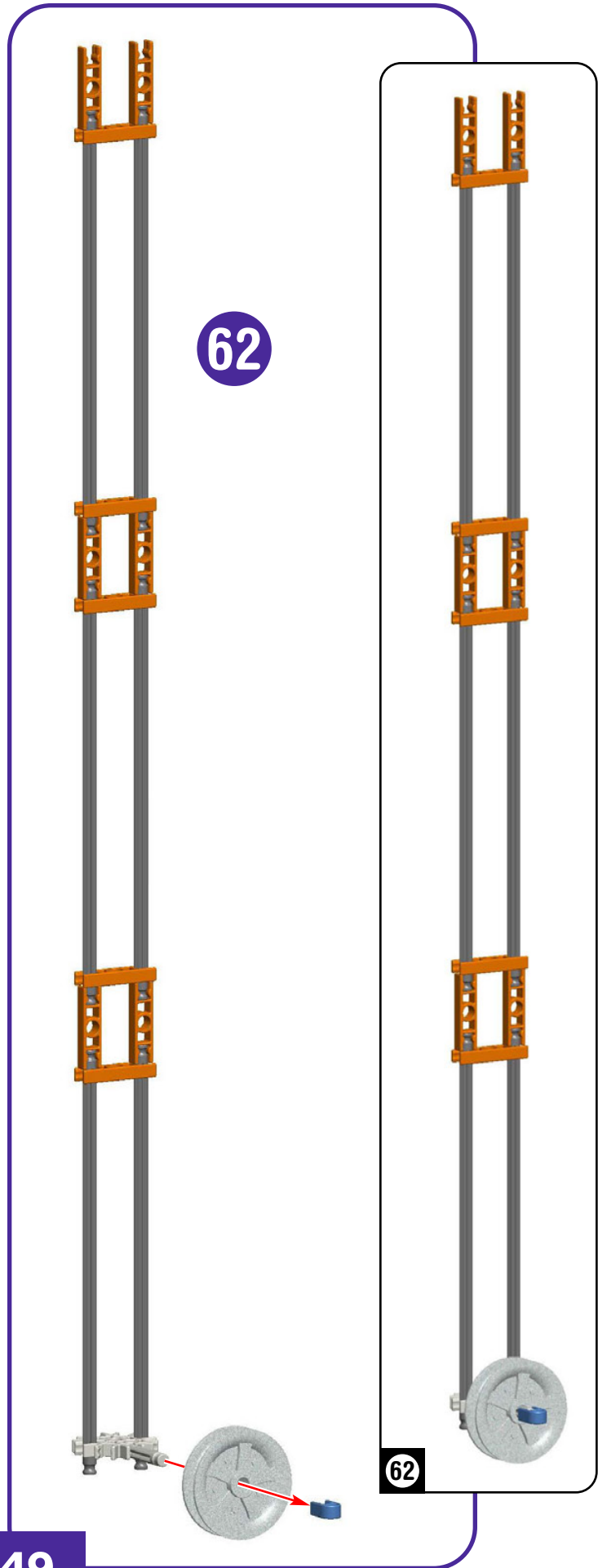






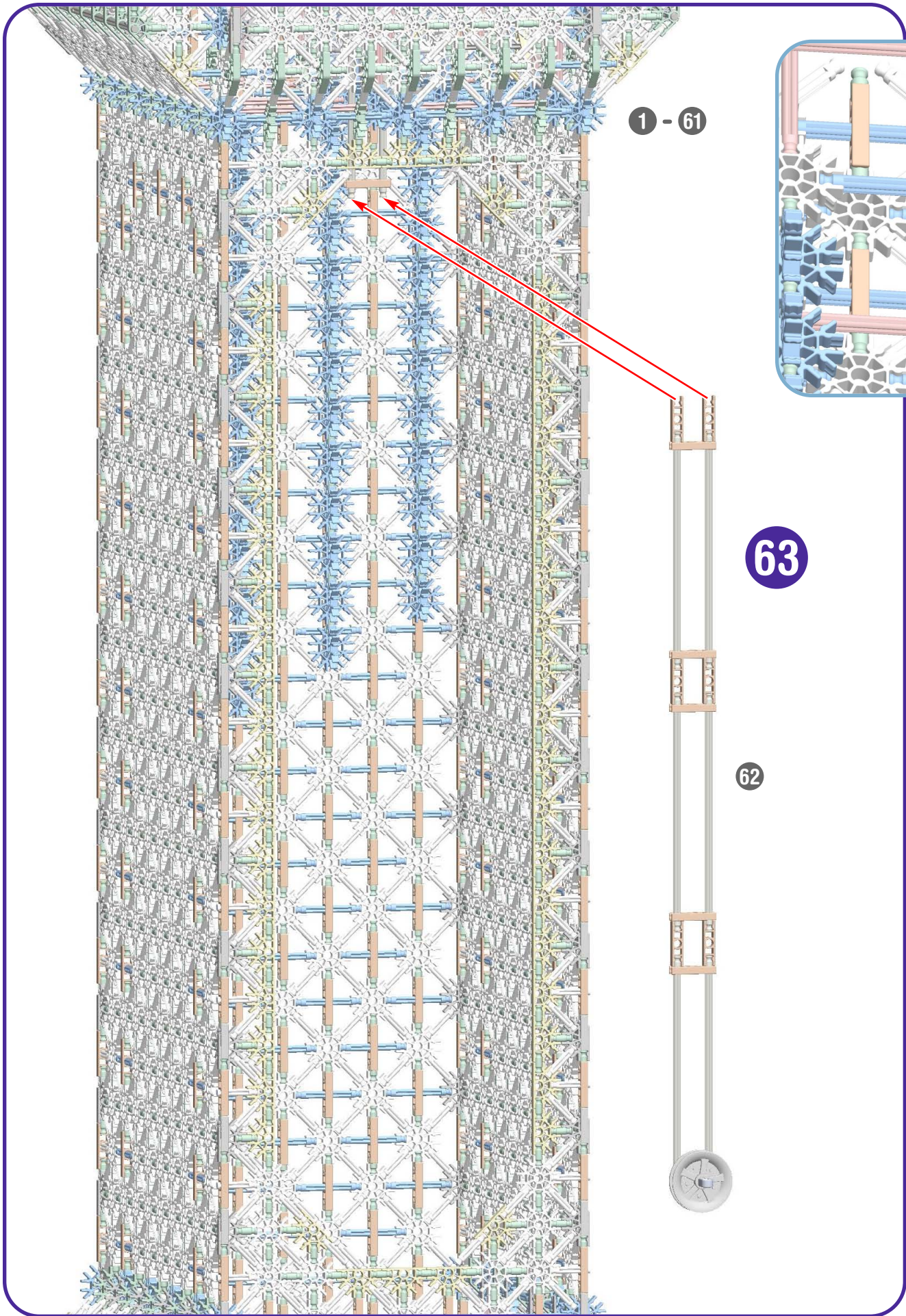
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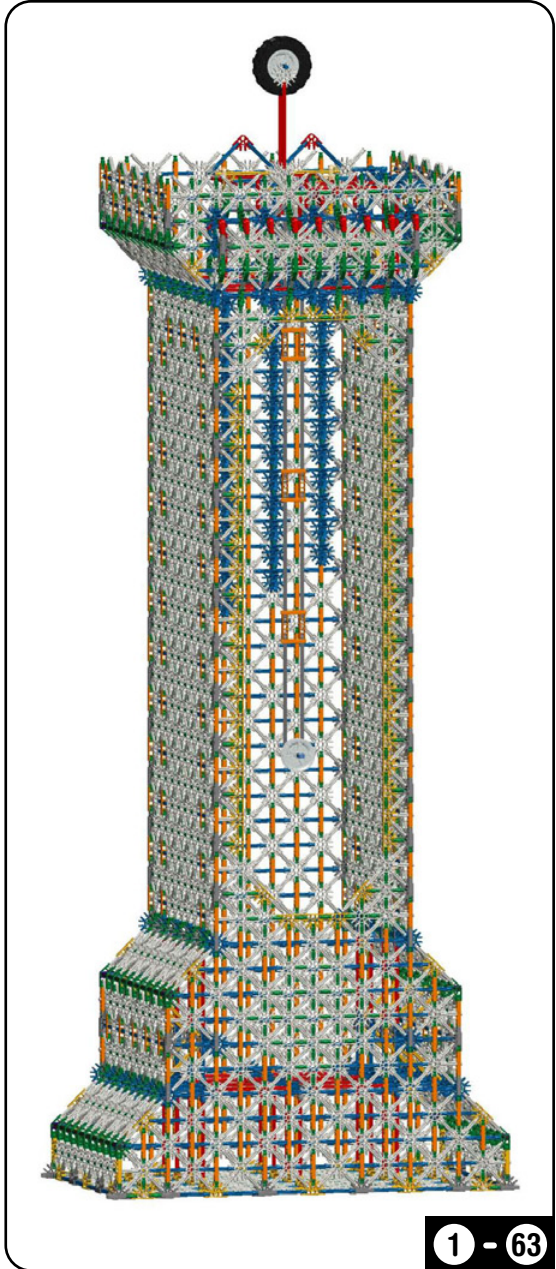
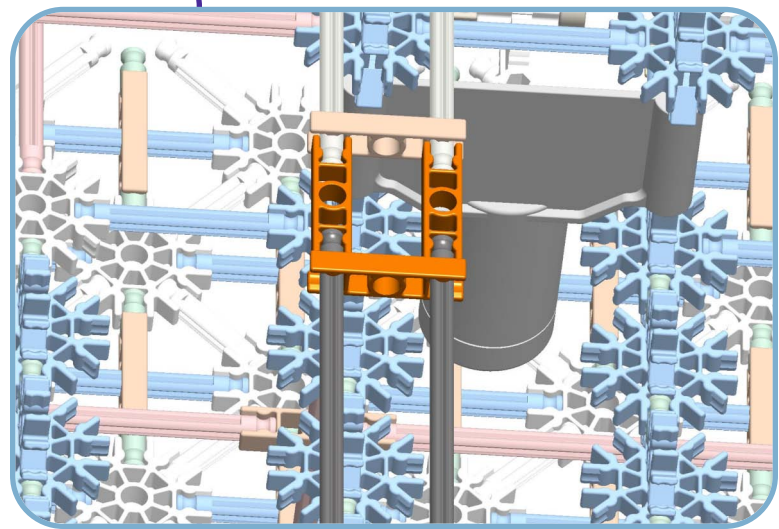
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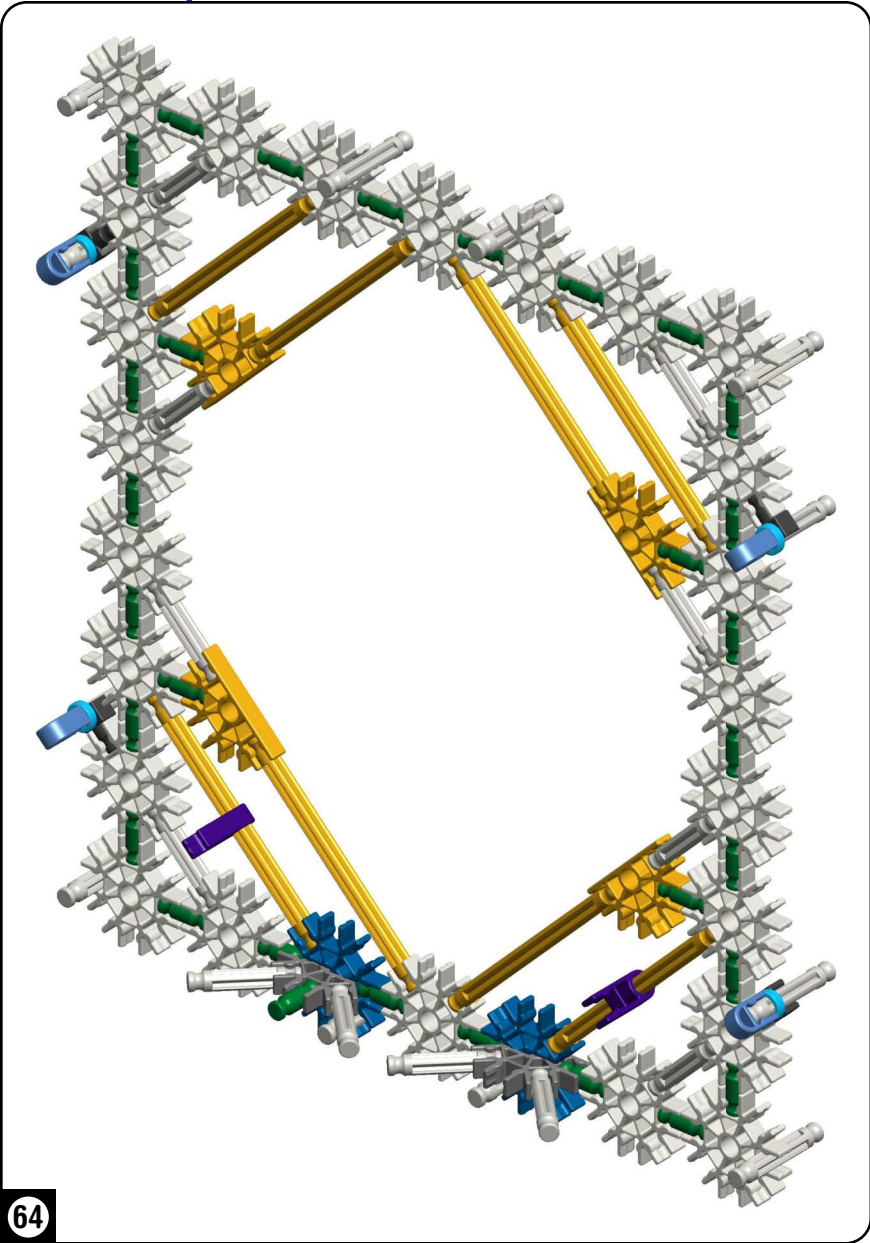
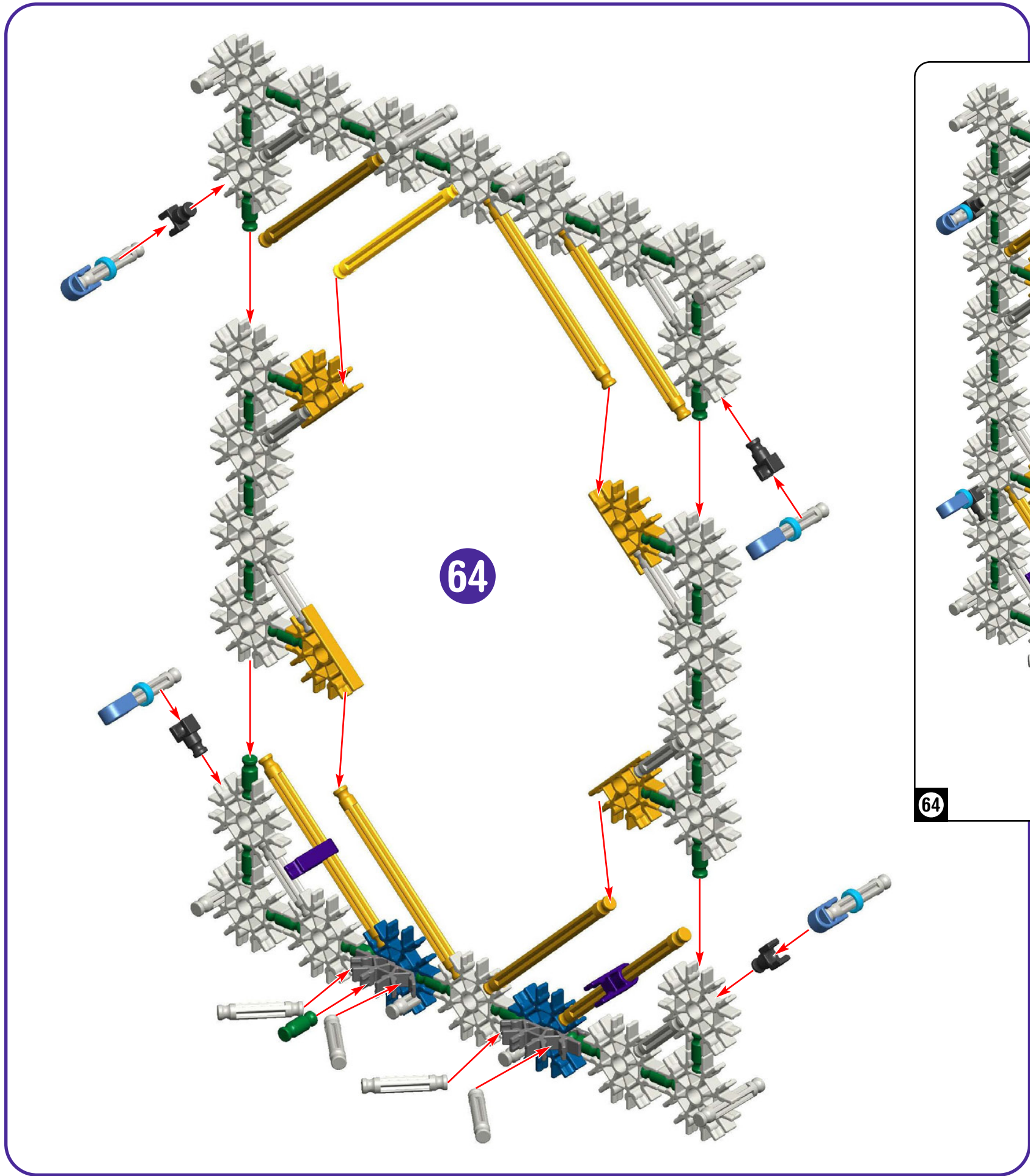
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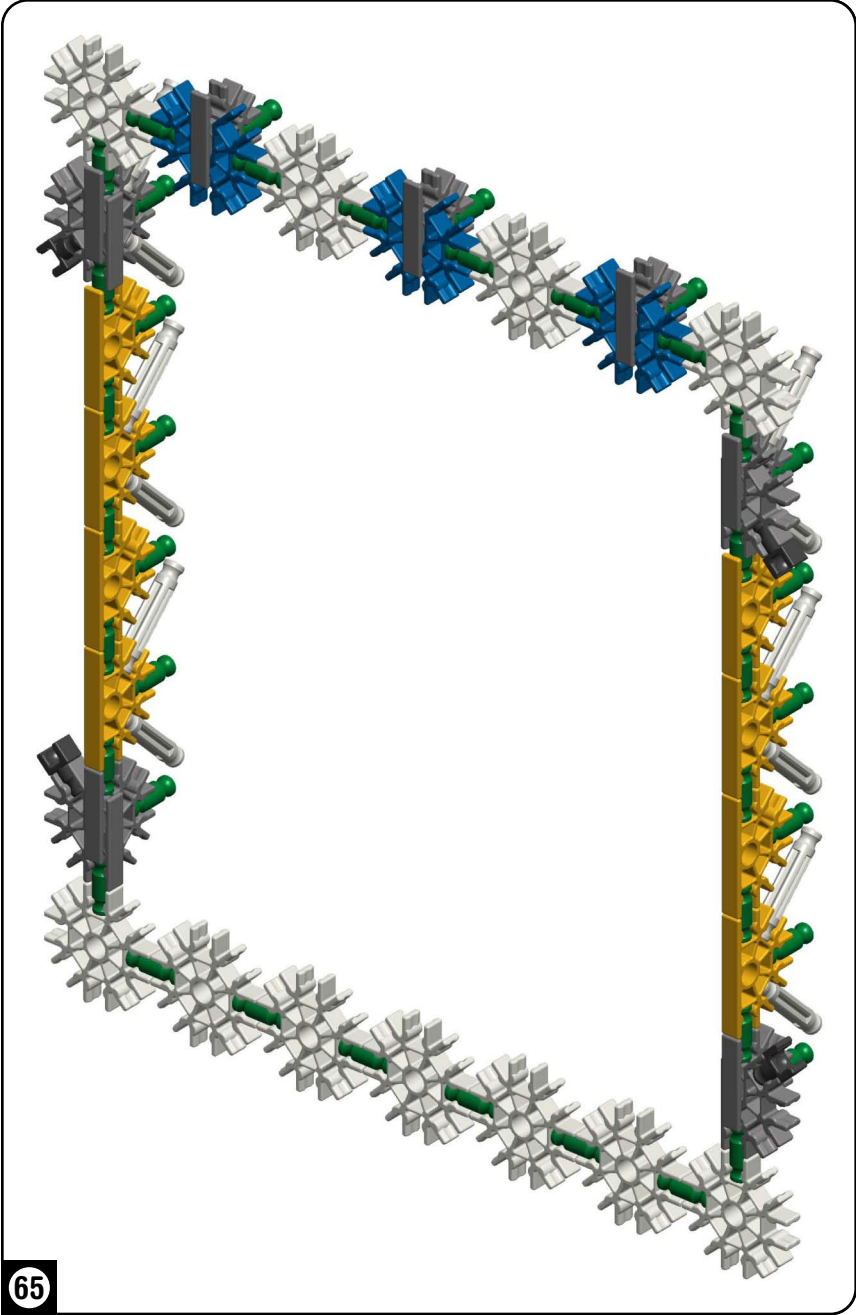
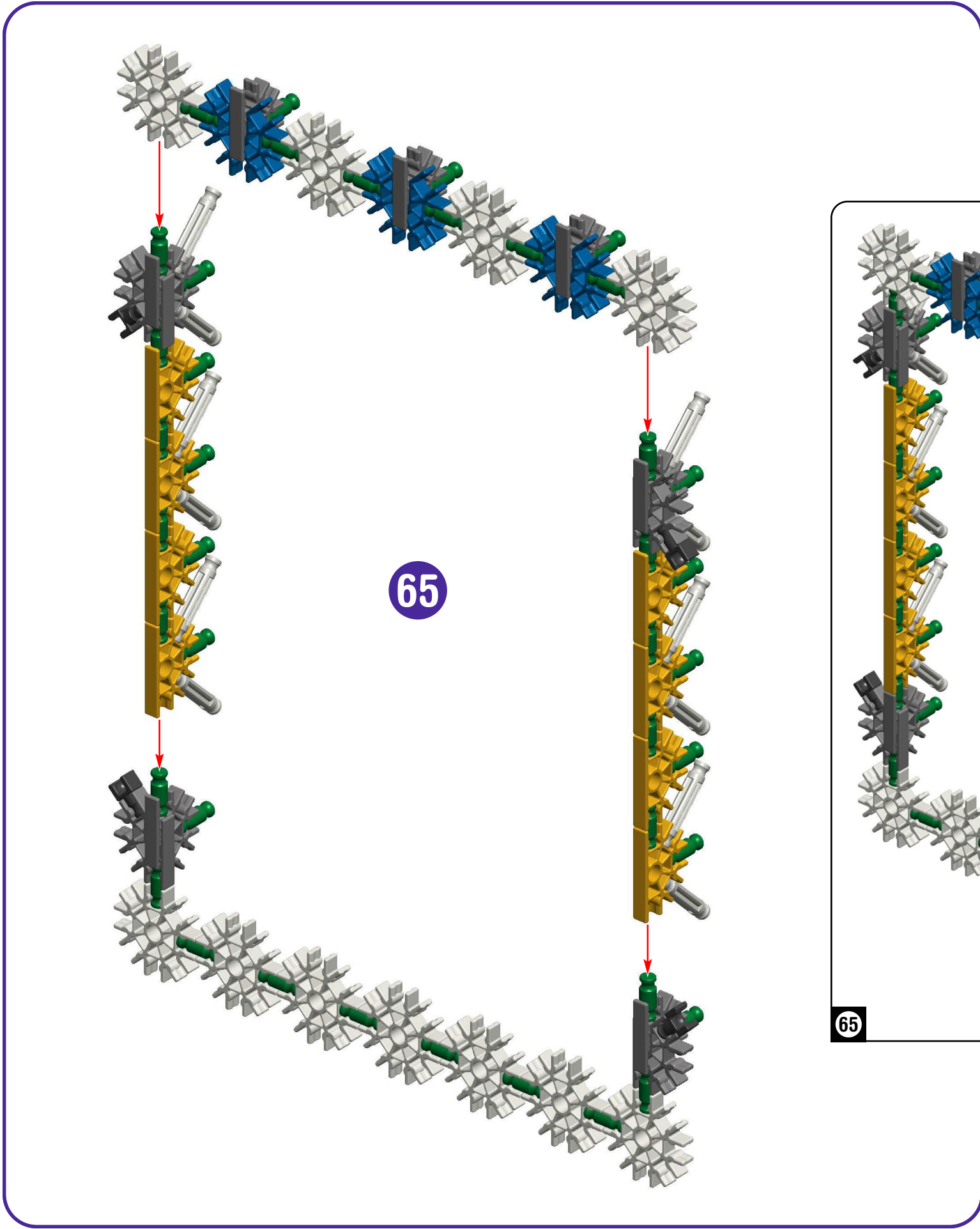
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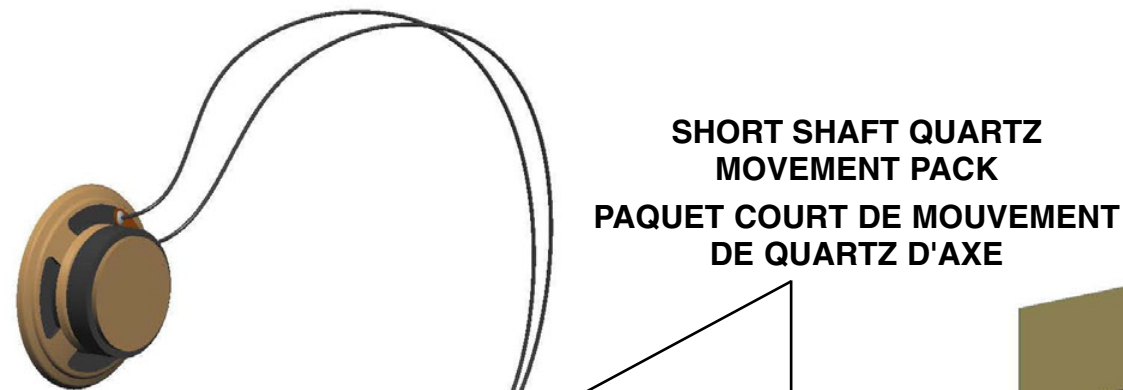
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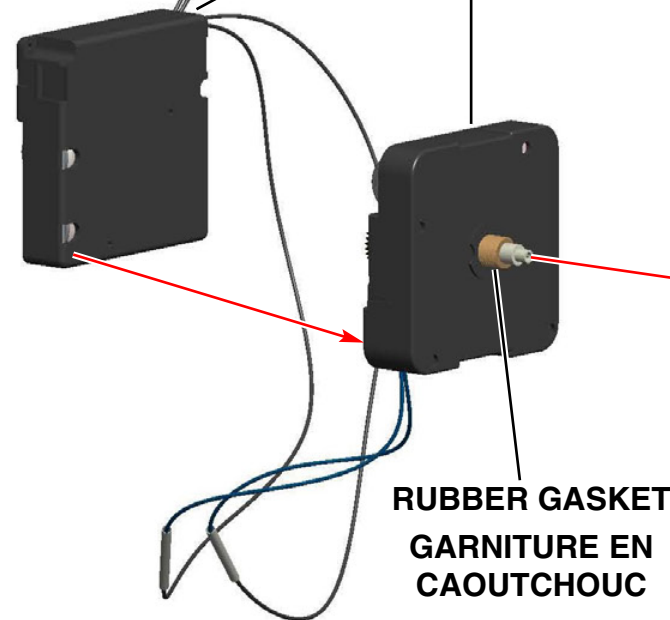


# Clock Face Assembly

## Assemblage de Visage d'Horloge



SHORT SHAFT QUARTZ  
MOVEMENT PACK  
PAQUET COURT DE MOUVEMENT  
DE QUARTZ D'AXE



RUBBER GASKET  
GARNITURE EN  
CAOUTCHOUC



METAL  
WASHER  
RONDELLE  
EN MÉTAL

HEX NUT  
ÉCROU DE  
SORTILEGE

**Important:** When working with the movement, take great care to maintain awareness of the speaker and battery wires (connected between the movement, chime battery pack, and speaker). Try not to create pull on these wires, which could result in the wires becoming disconnected.

**Important :** En travaillant avec l'horloge, faites attention tout en manipulant le haut-parleur audio et le fil électrique. Essayez de ne pas tirer sur ces fils électriques, qui pourraient avoir comme conséquence les fils devenant débranchés.

## Clock Assembly

Place the rubber gasket over the center shaft of the quartz trigger movement. Insert the center shaft of the movement through the center hole on the backside of the dial board. On the front surface, place the clock face (dial) over the center shaft. Next, place the metal washer over the center shaft and then thread on the hex nut. Take a moment to orientate the clock face so that the "12" and "6" o'clock positions are vertically plumb. Also make certain the movement is mounted squarely, with the quartz battery compartment orientated so that it is at the bottom of the movement. Hand-tighten the hex nut to secure the movement. Do not over-tighten, as this could inhibit proper movement operation.

## Final Assembly & Operation

At this time, you may mount the hour and minute hands at the "12" o'clock position. Install the hour hand initially, and then install the minute hand. Rotate the time-set knob (on the back of the trigger movement) to make certain the hands have proper clearance. Insert the shaft of the second hand (item 5) onto the small pin shaft in the center of the hand shaft. Insert fresh "AA" batteries into the quartz movement, making certain to observe the proper polarity (+/-) for battery insertion. Rotate the time-set knob (as you face the back of the movement) counter-clockwise to the current time. Insert fresh batteries into the chime pack unit. Press the red button on the back of the chime pack to activate the chimes, and wait for the movement to count out the chime strikes (it will do so after it plays the melody). Count the number of strikes to determine what time the movement is programmed to chime. Note that pressing the red button once will advance the chimes by one hour. Continue to press the red button (allowing

## Assemblée de visage d'horloge

Placent la garniture en caoutchouc au-dessus de l'axe central du mouvement de déclenchement de quartz. Passez l'axe central du mouvement dans le trou central sur le derrière du panneau de cadran. Sur la surface plan, placez le visage d'horloge (cadran) au-dessus de l'axe central. Après, placez la rondelle en métal au-dessus de l'axe central et puis filetez sur l'écrou de sortilège. Prenez un moment pour orienter le visage d'horloge de sorte que les « 12 » et « 6 » positions heure soient verticalement à plomb. Assurez-vous également le mouvement est monté carrément, avec le compartiment de batterie de quartz orienté de sorte qu'il soit au fond du mouvement. Serrez l'écrou de sortilège pour fixer le mouvement. Ne trop serrez pas, car ceci pourrait empêcher l'opération appropriée de mouvement.

## Assemblée finale et operation

Actuellement, vous pouvez monter l'heure et les mains minutieuses à la position heure « 12 ». Installez la main d'heure au commencement, et installez alors la main minutieuse. Tournez temps-placent le bouton (sur le dos du mouvement de déclenchement) pour s'assurer les mains avoir le dégagement approprié. Insérez l'axe d'occasion (point 5) sur le petit axe de goupille au centre de l'axe de main. Insérez les batteries fraîches de « aa » dans le mouvement de quartz, s'assurant pour observer la polarité appropriée (+/-) pour l'insertion de batterie. Tournez temps-placent le bouton (comme vous faites face au dos du mouvement) dans le sens contraire des aiguilles d'une montre au temps courant.

Insérez les batteries fraîches dans l'unité de paquet de carillon. Appuyez sur le bouton rouge sur le dos du paquet de carillon pour activer les carillons, et attendez le mouvement pour compter dehors les grèves de carillon (il fera ainsi après lui joue la mélodie). Comptez le nombre de grèves pour déterminer quand le mouvement est programmé sonner. Notez cela qui appuie sur le bouton rouge une fois avancera les

the movement to complete entire chime and strike cycle in between each press) to synchronize the hourly chime melody and strike to the current chime. Example: The current time is 1:30 pm. Press the red button once. The clock chimes eleven times (indicating that the chime is set to 11 o'clock am). Press the red button twice to advance the chime to 1 o'clock pm. Allow the clock to continue to run. At 2 o'clock pm, the clock should automatically strike twice after the chime melody.

**Important Note:** The movement is programmed to automatically silence the chime after 9 o'clock pm. The chimes will remain silent until 6 o'clock am. Understand that the movement will not chime if it is within the silence hours of the programmed cycle. Continue to press the red button, pausing in between each press, until the movement will once again chime. Count the number of strikes to determine what time the movement is chiming. You may continue to synchronize the chime and times as previously described.

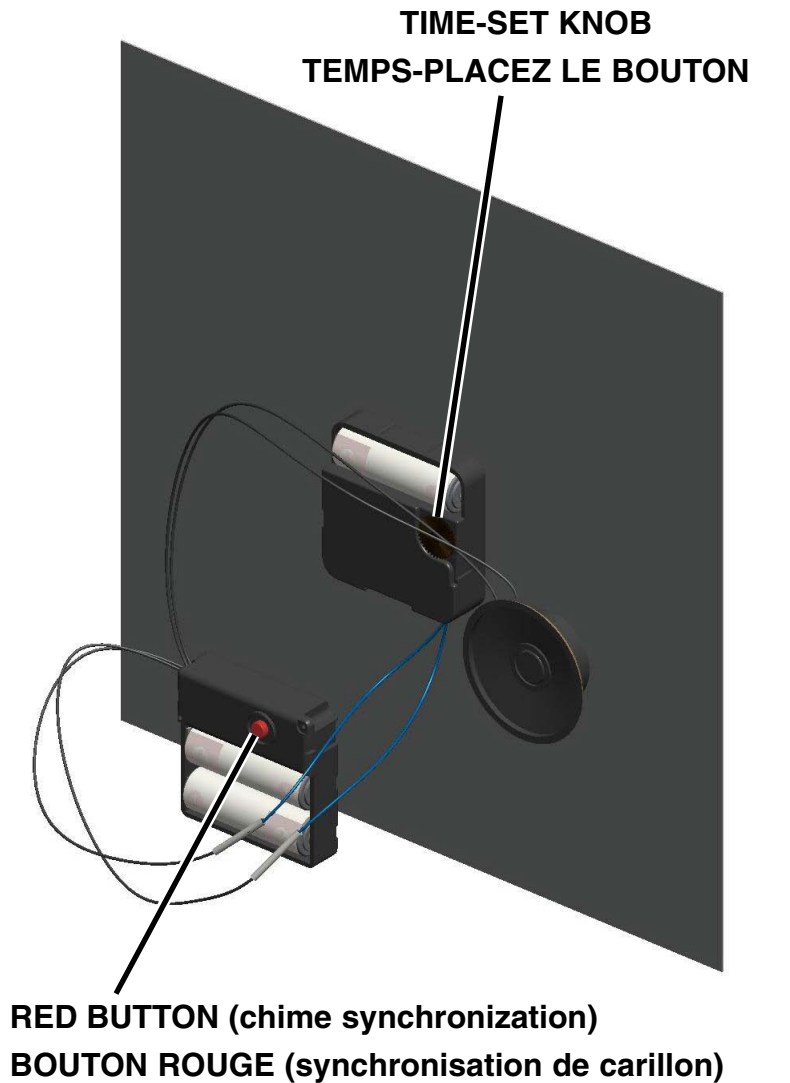
As a side note, the movement will only strike 10, 11, 12, 1, 2, 3, 4, and 5 times once in a 24 hour chime cycle (due to the night hours being automatically silenced), if your movement should strike the indicated number of times (as listed in the previous sentence), it is an indicator that the chime is cycling through the morning/day hours.

**Daylight Savings Time:** Due to the fact that pressing the red button will only advance the chime, it is best to advance the time and chimes for daylight savings time. In the spring, you will simply advance the clock ahead one hour with the time set knob and push the red button once. Advancing the time and chime 23 hours in the fall will account for the hour loss during the end of DST.

carillons par une heure. Continuez à appuyer sur le bouton rouge (permettant le mouvement au carillon entier complet et frapper le cycle entre chaque presse) pour synchroniser la mélodie horaire de carillon et pour frapper au carillon courant. Exemple : Le temps courant est le 1:30 P.M. Appuyez sur le bouton rouge une fois. L'horloge sonne onze fois (indiquant que le carillon est placé à 11 heures AM). Appuyez sur le bouton rouge deux fois pour avancer le carillon à 1 heure P.M. Permettez à l'horloge de continuer à courir. À 2 heures P.M., l'horloge devrait automatiquement heurter deux fois après la mélodie de carillon.

**Note importante :** Le mouvement est programmé faire taire automatiquement le carillon après 9 heures P.M. Les carillons resteront silencieux jusqu'à ce que 6 heures AM. Comprenez que le mouvement ne sonnera pas s'il a lieu dans les heures de silence du cycle programmé. Continuez à appuyer sur le bouton rouge, faisant une pause entre chaque presse, jusqu'à ce que le mouvement sonne de nouveau. Comptez le nombre de grèves pour déterminer quand le mouvement sonne. Vous pouvez continuer à synchroniser le carillon et les temps aussi précédemment décrits. Comme note latérale, le mouvement sonnera seulement 10, 11, 12, 1, 2, 3, 4, et 5 fois une fois dans des 24 cycles de carillon d'heure (dus aux heures de nuit étant automatiquement faites taire), si votre mouvement frappe le nombre de fois indiqué (comme énuméré dans la phrase précédente), c'est un indicateur que le carillon fait un cycle par les heures de matin et de jour.

**Temps de l'épargne de jour :** Étant donné qu'appuyer sur le bouton rouge avancera seulement le carillon, il est le meilleur d'avancer le moment et les carillons pour le temps de l'épargne de jour. Au printemps, vous avancerez simplement l'horloge en avant pendant une heure avec le bouton réglé de temps et pousserez le bouton rouge une fois. En avançant le temps et sonnez 23 heures en automne expliquera la perte d'heure pendant la fin du temps de l'épargne de jour.



When facing the back-side of the movement, rotate the time-set knob counter-clockwise to set the current time. Do not use the hands to set the time. Do not ever rotate the clock hands counter-clockwise (which could cause un-repairable damage resulting in an inoperative movement).

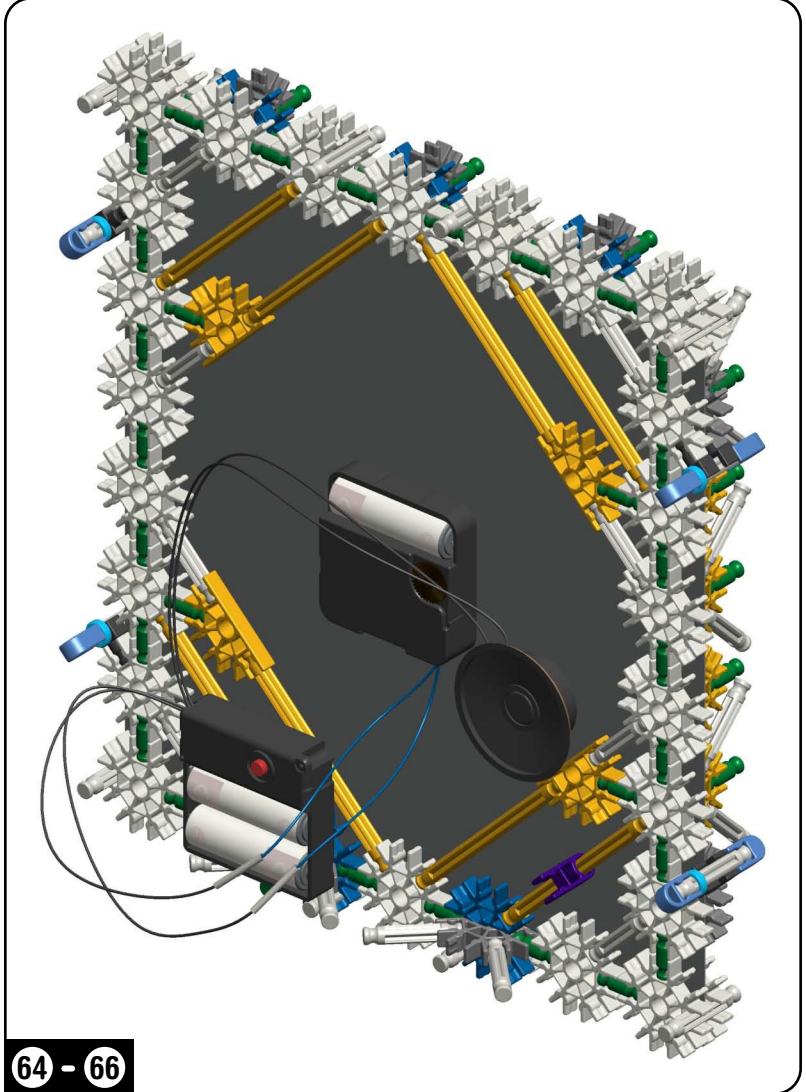
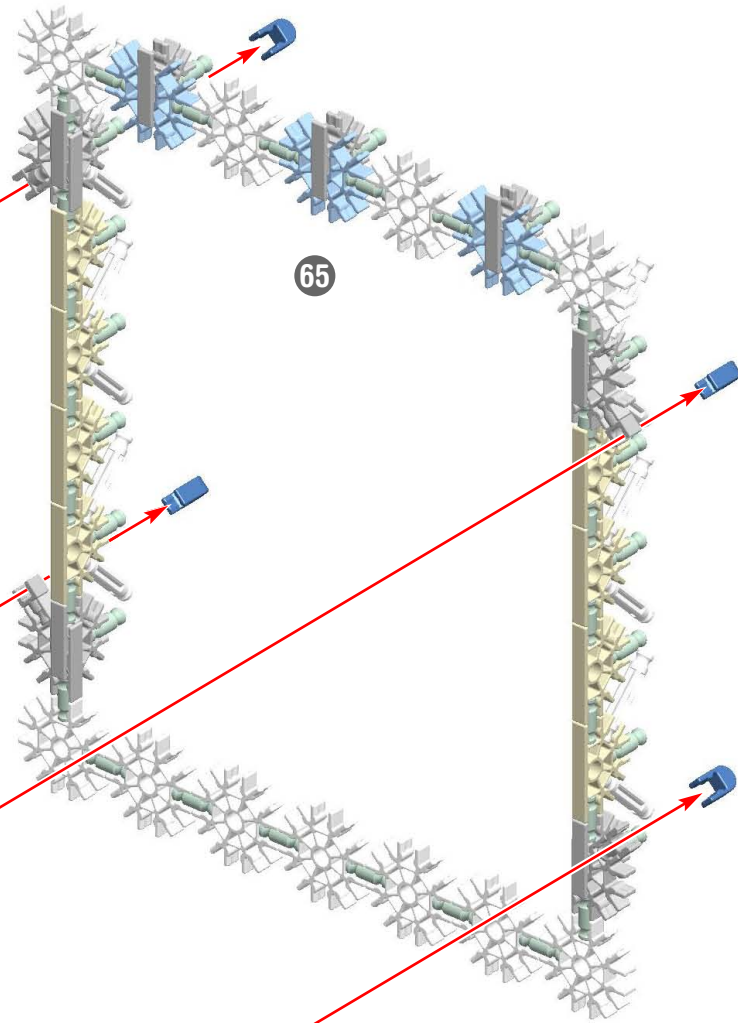
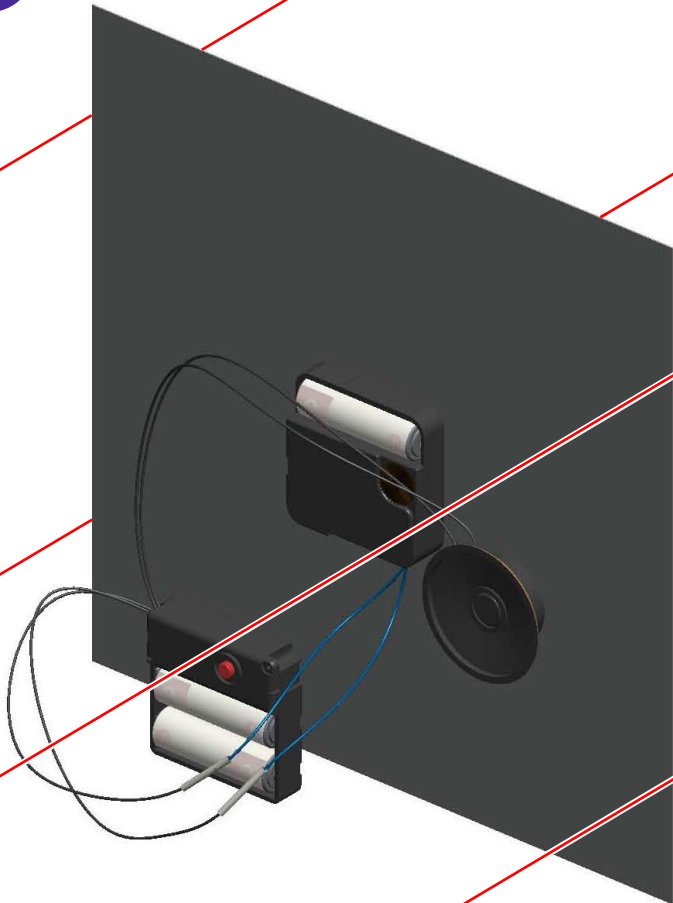
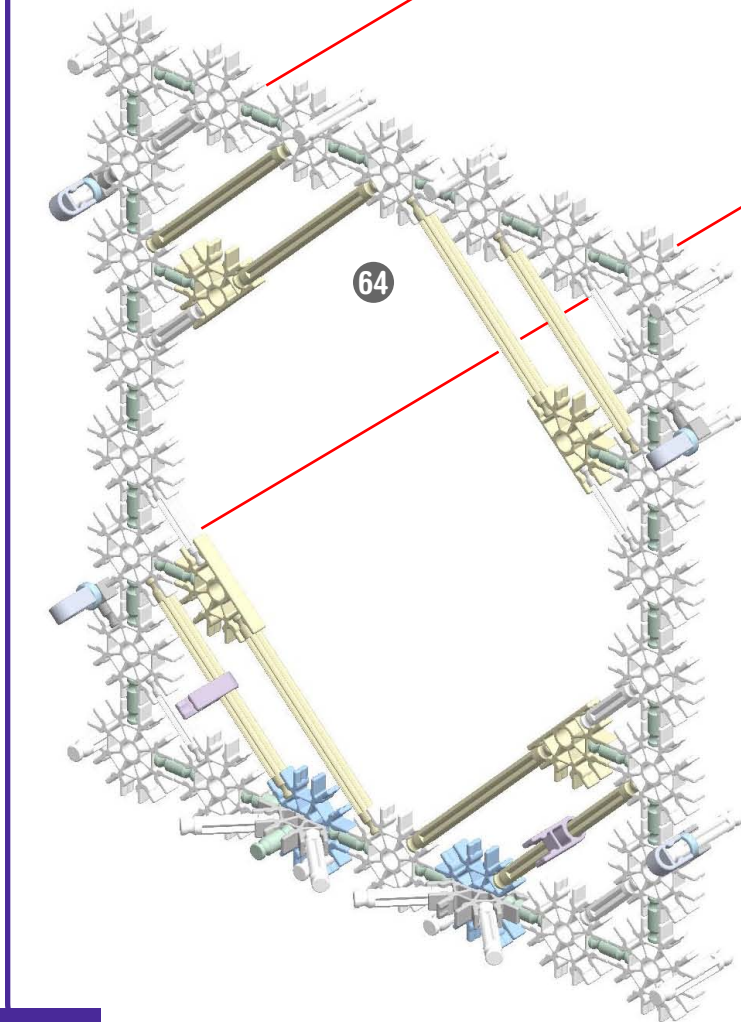
En faisant face au derrière du mouvement, tournez temps-placent le bouton dans le sens contraire des aiguilles d'une montre pour placer l'heure courante. N'utilisez pas les mains pour placer l'heure. Ne tournez pas jamais les mains d'horloge dans le sens contraire des aiguilles d'une montre (qui pourraient endommager irréparable ayant pour résultat un mouvement inopérant).

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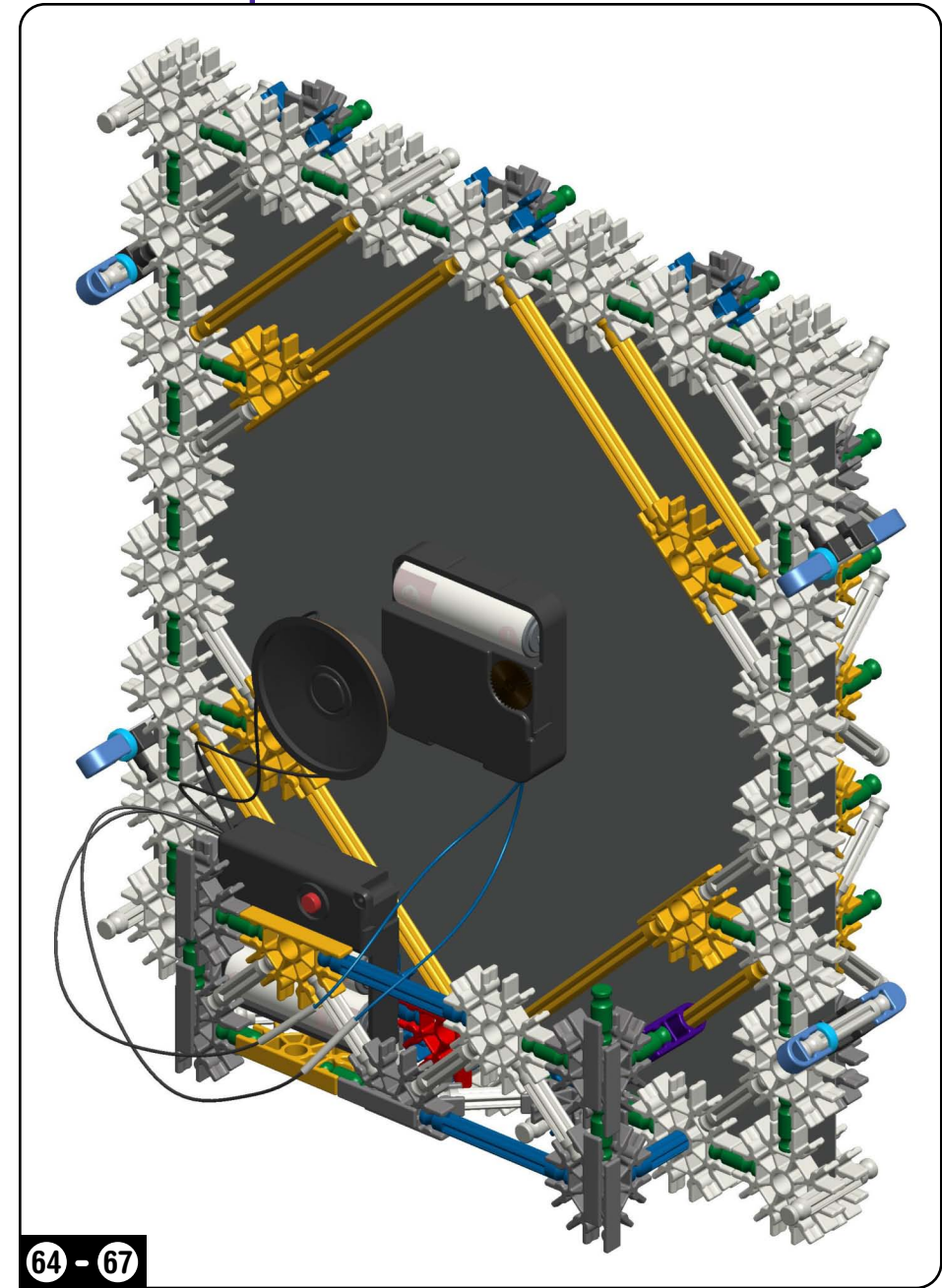
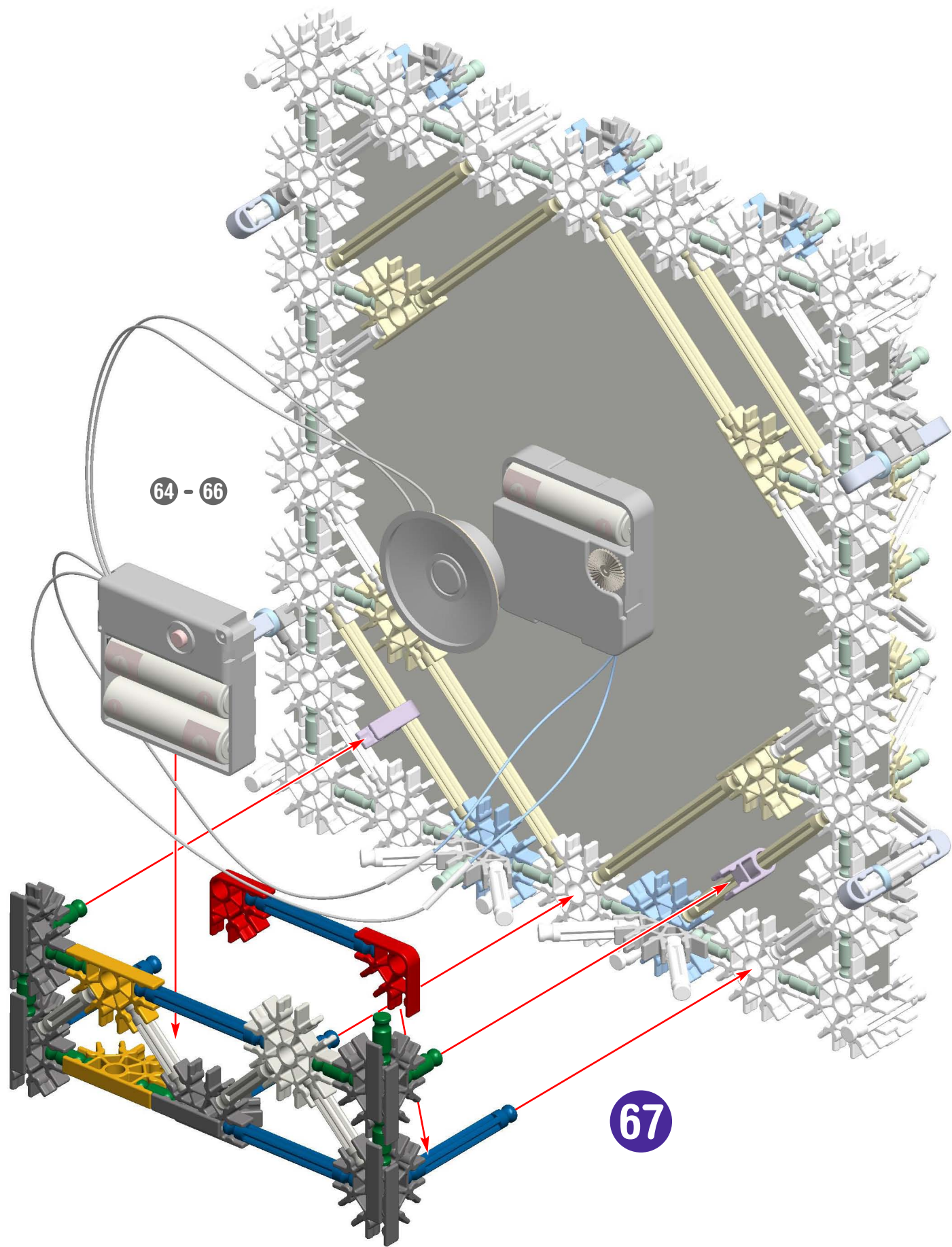
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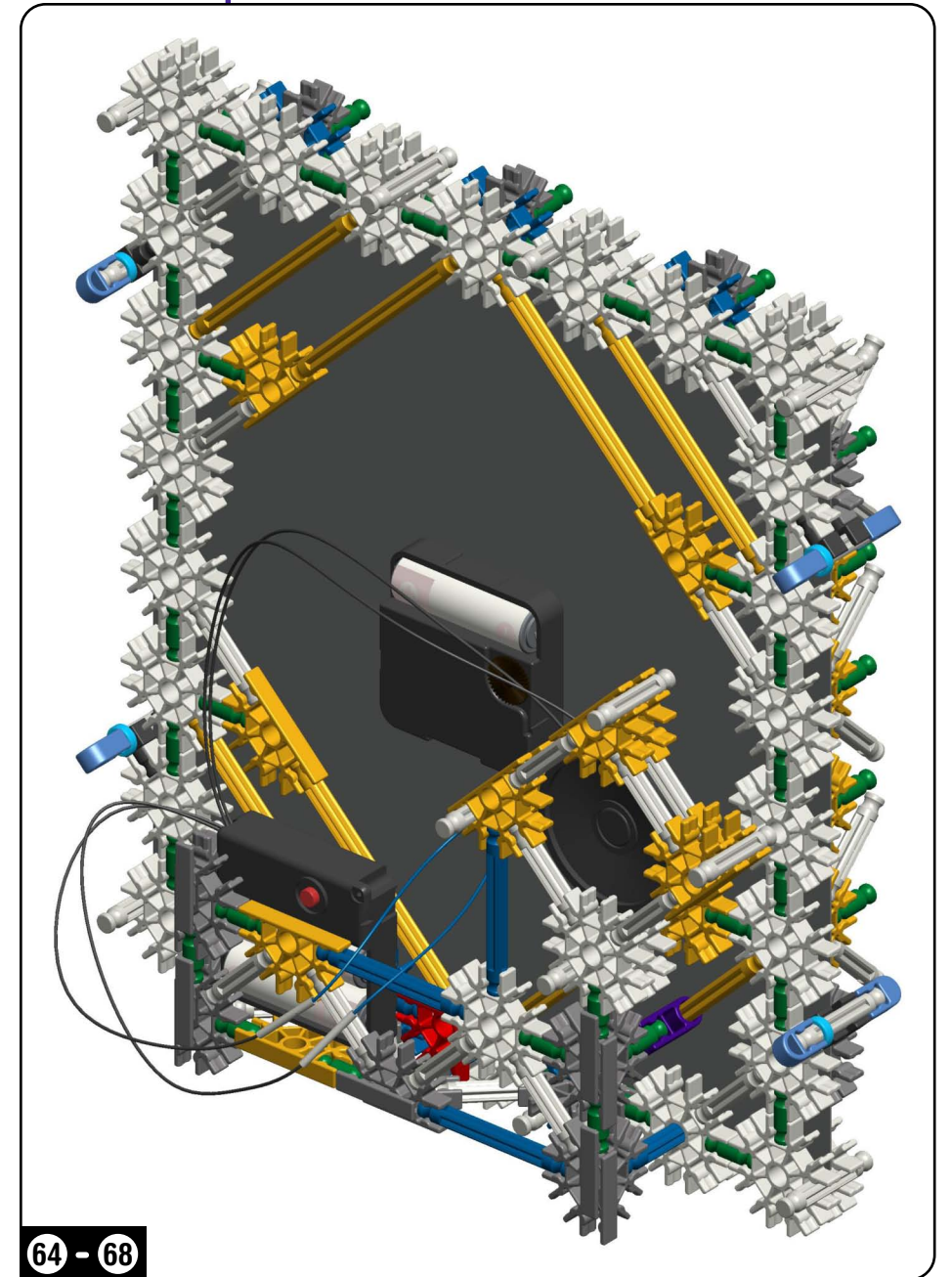
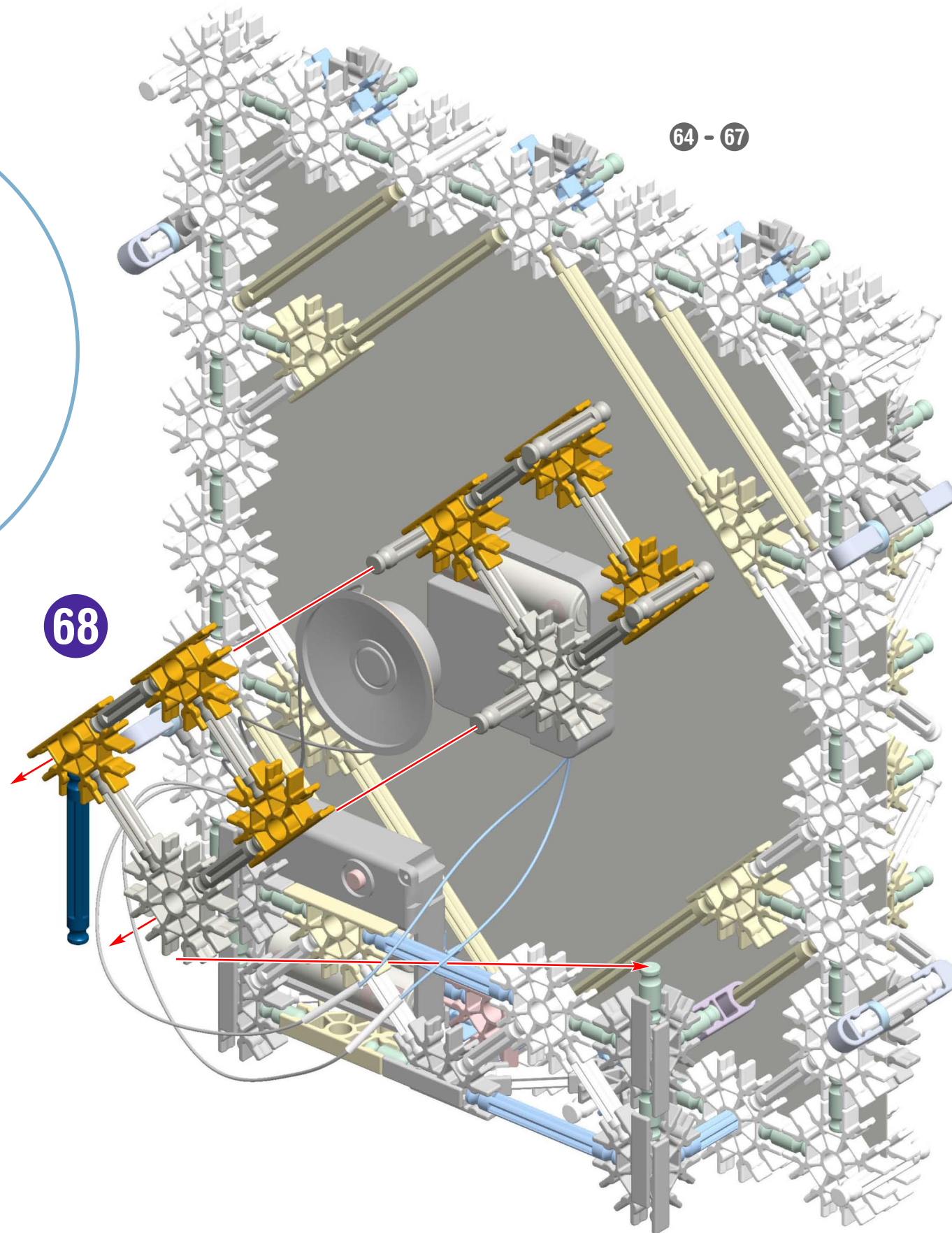
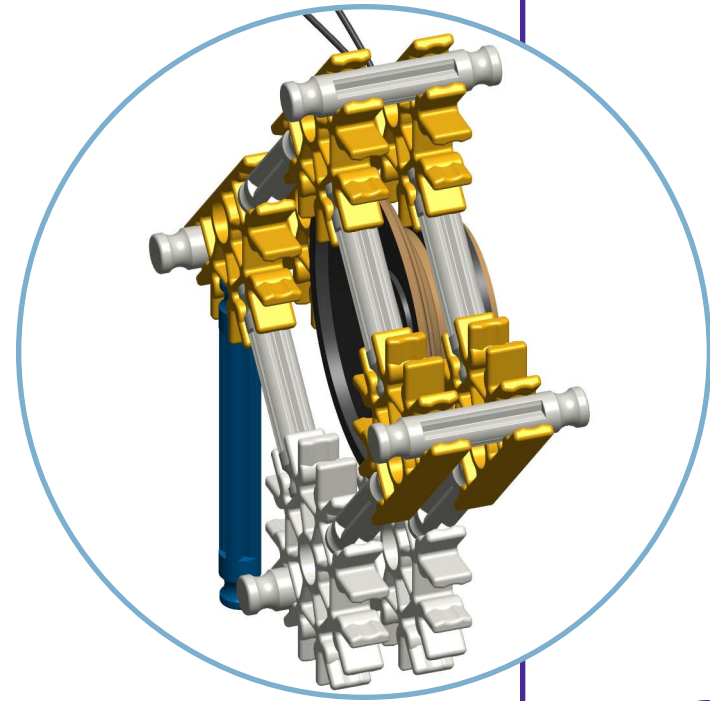
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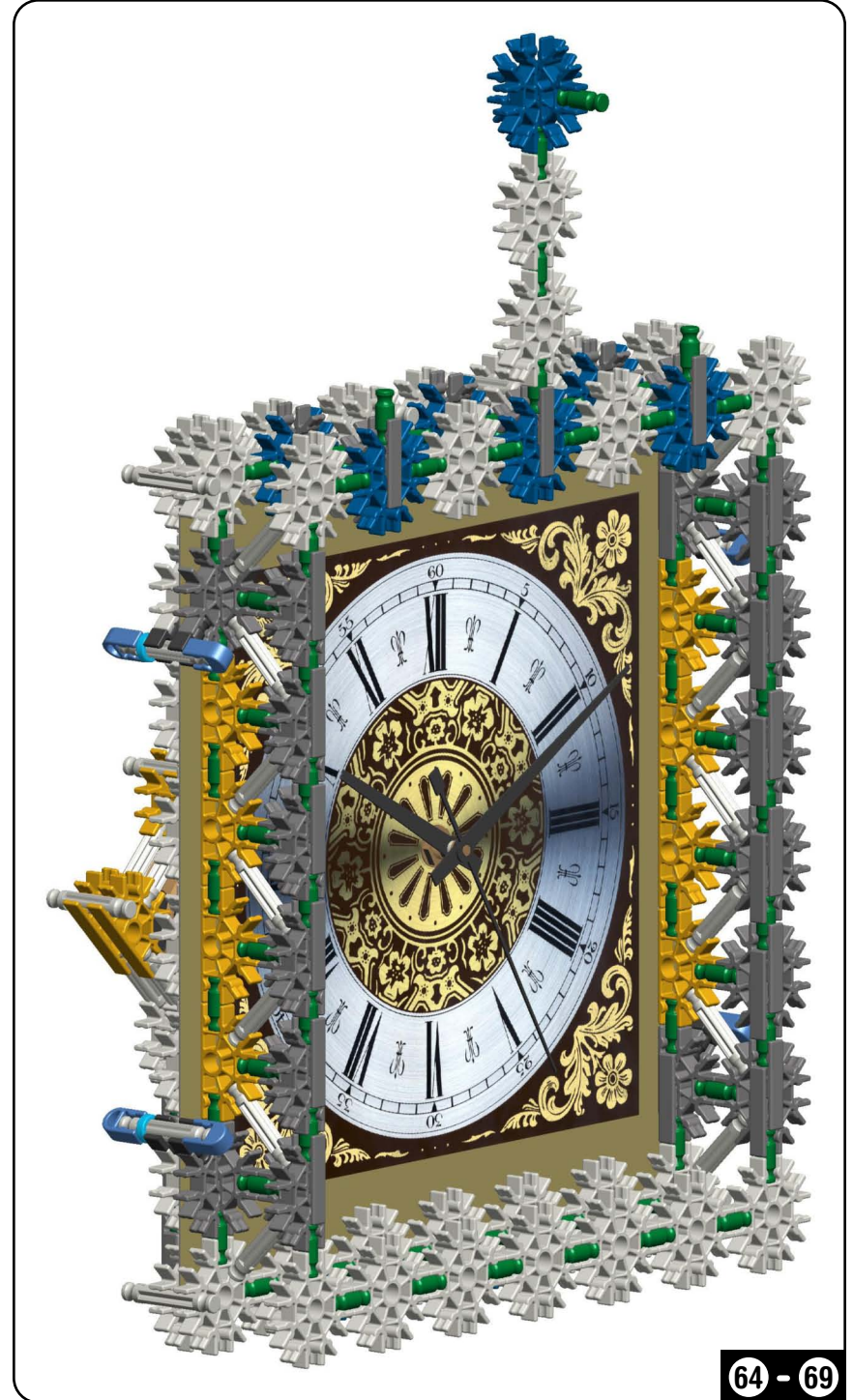
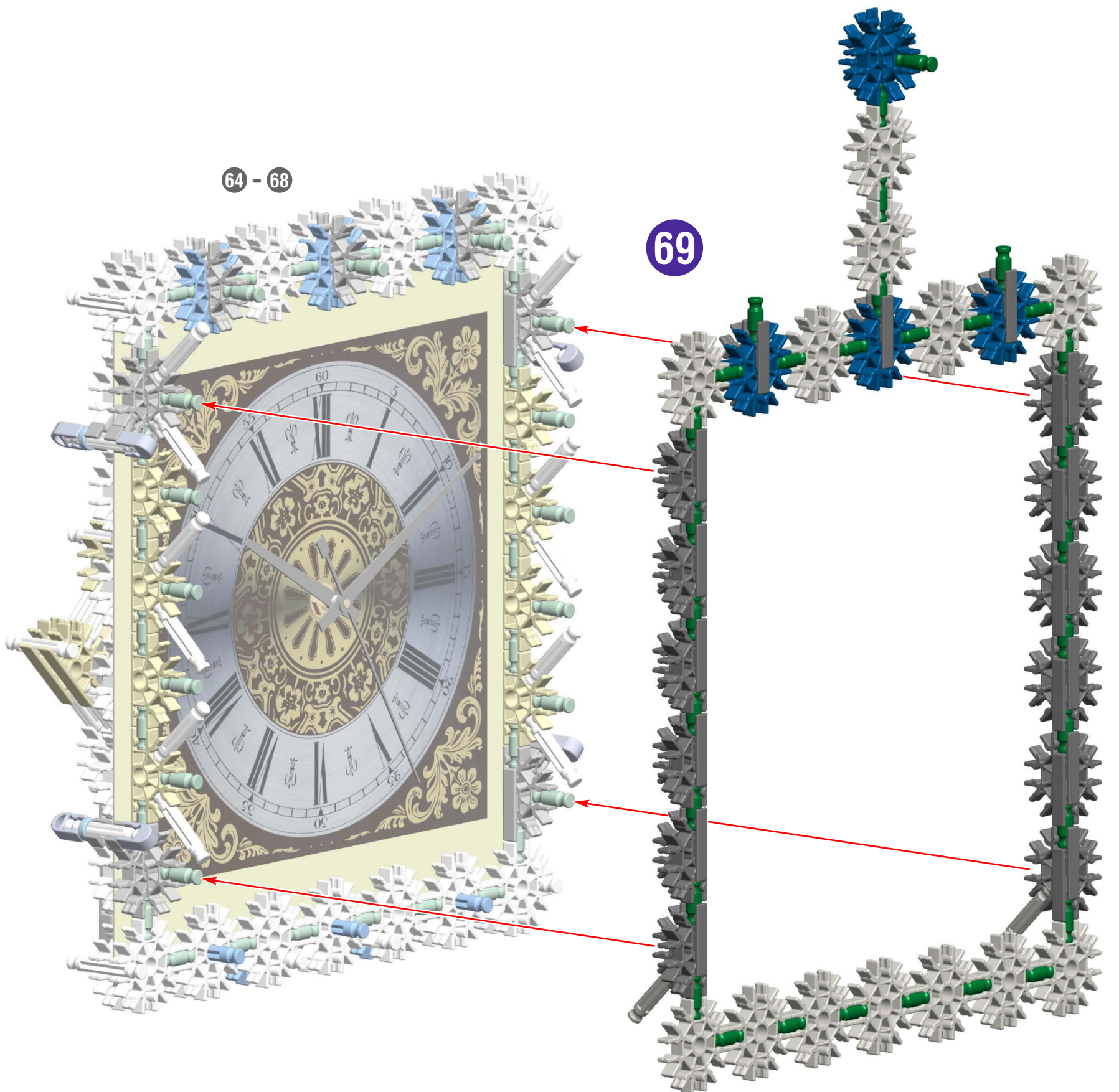


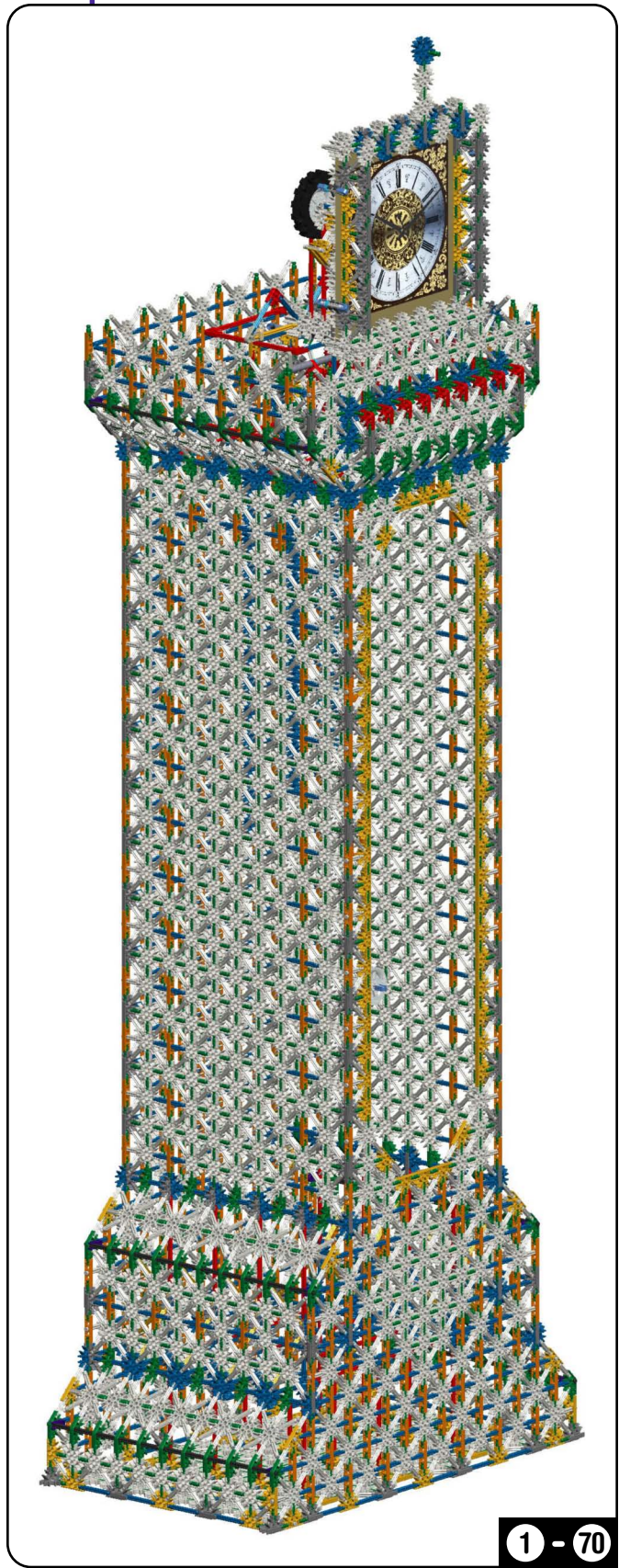
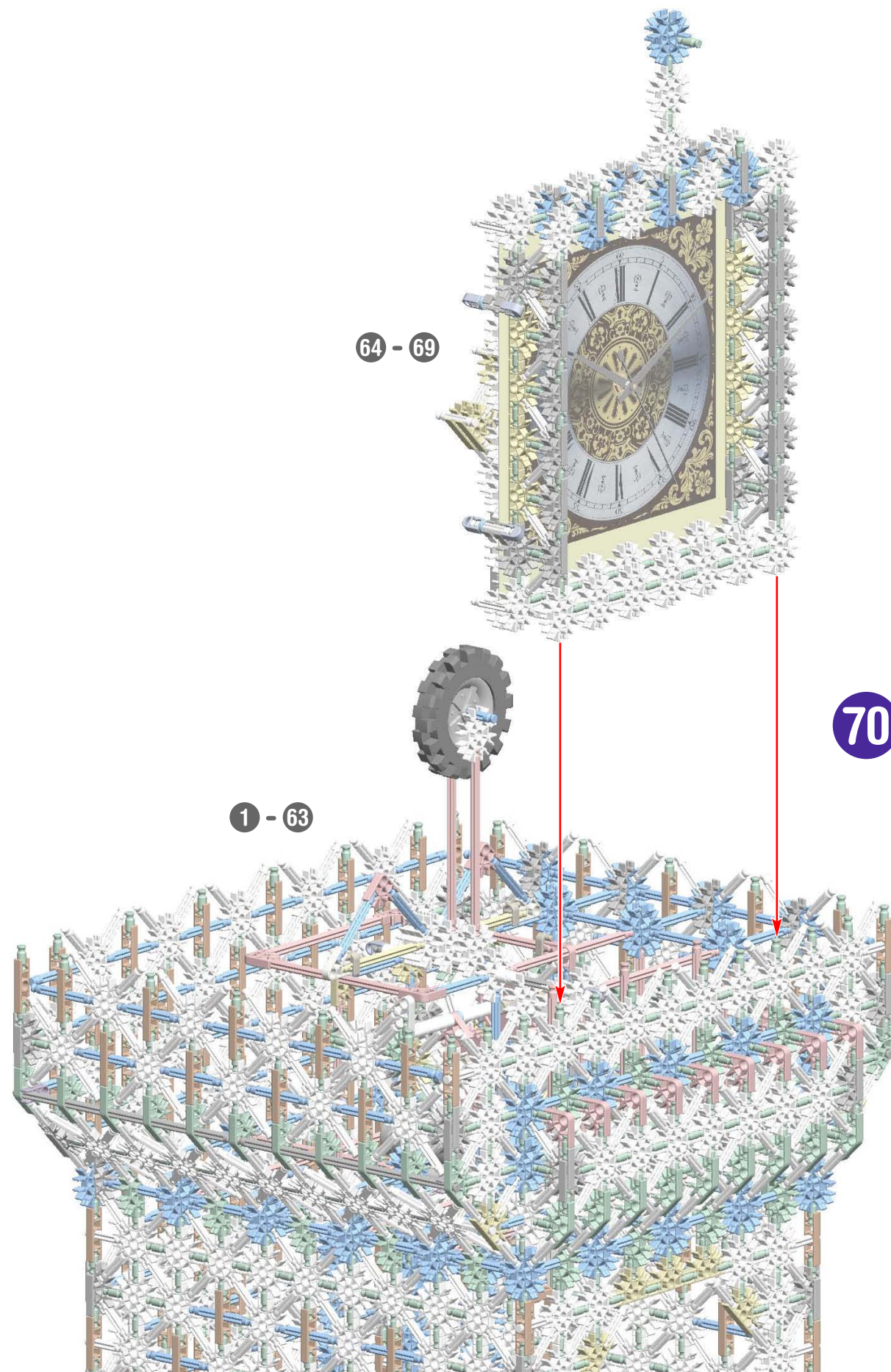


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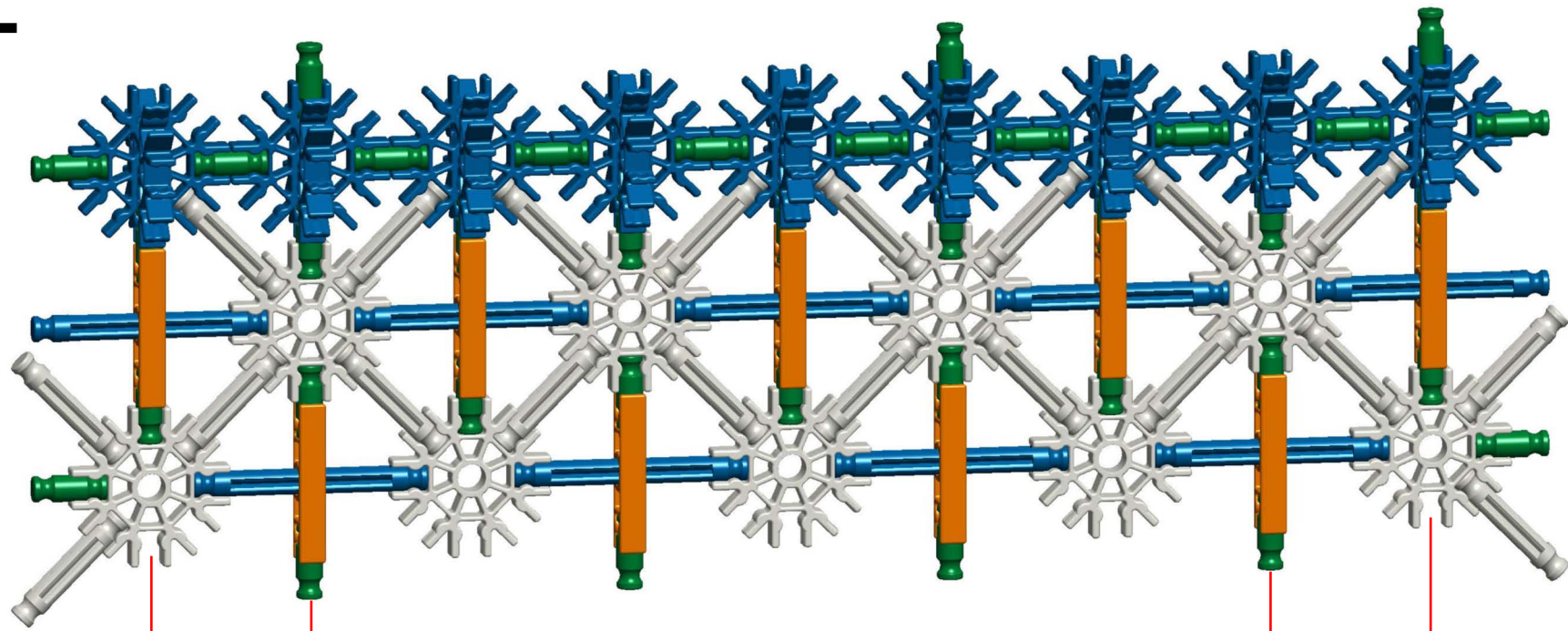
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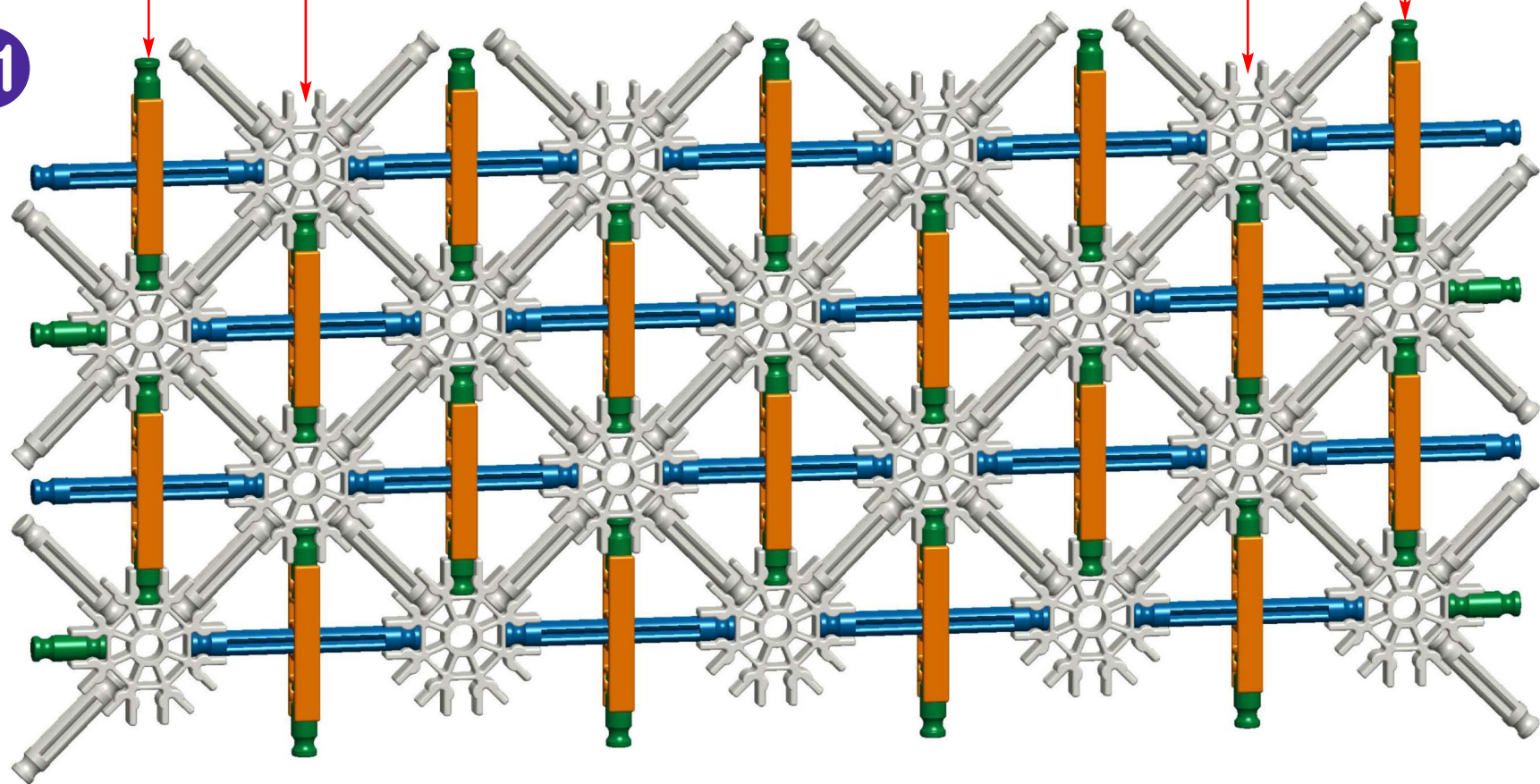


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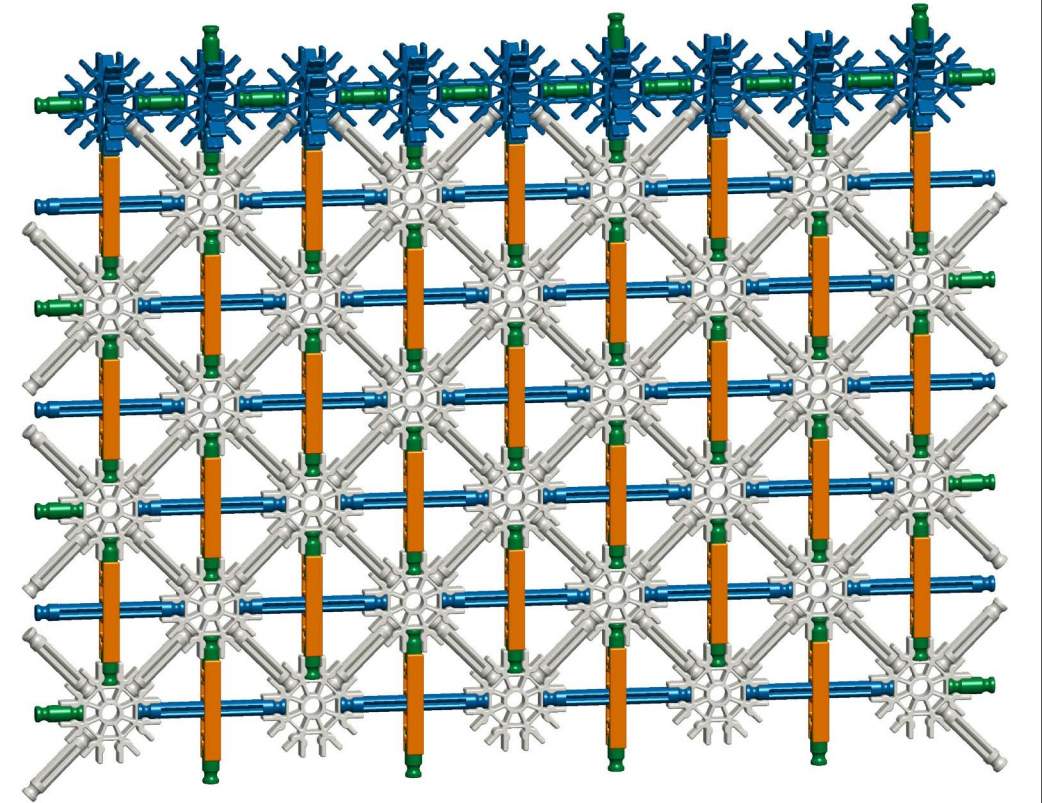
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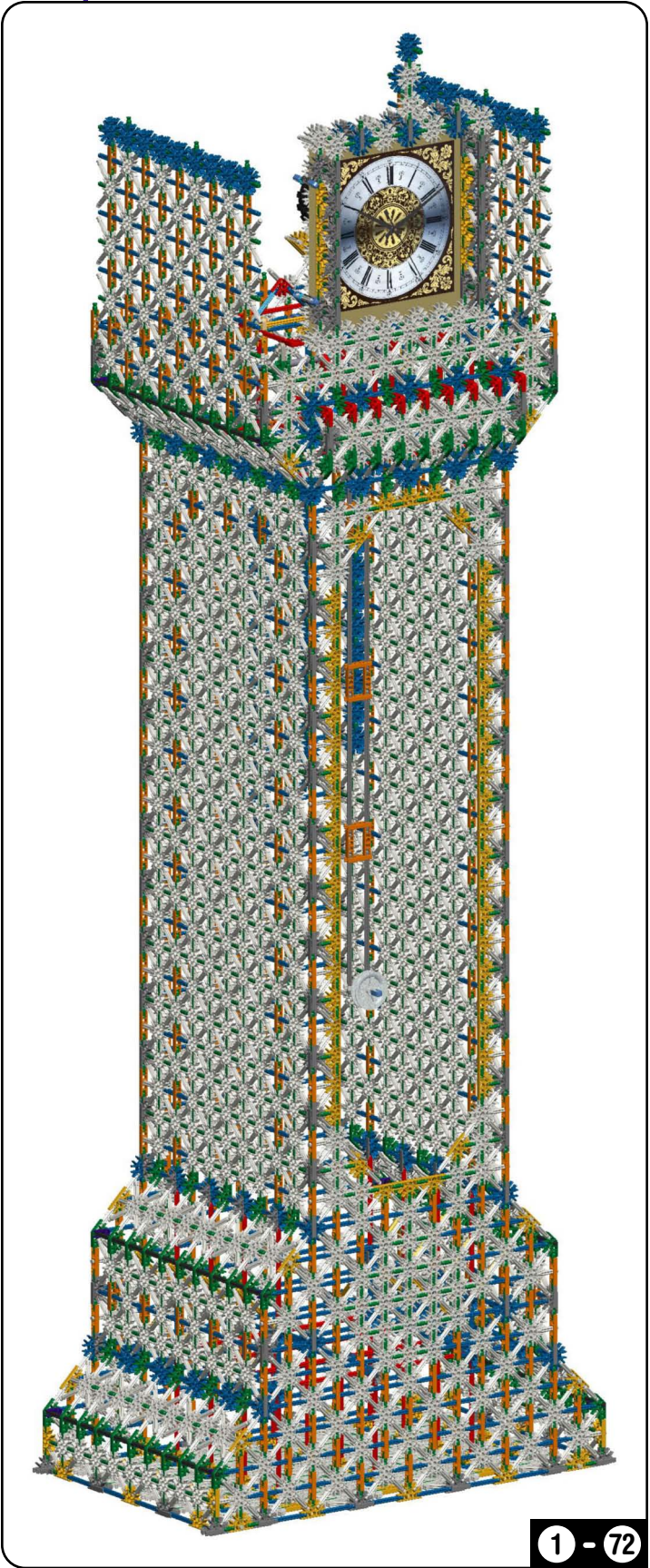
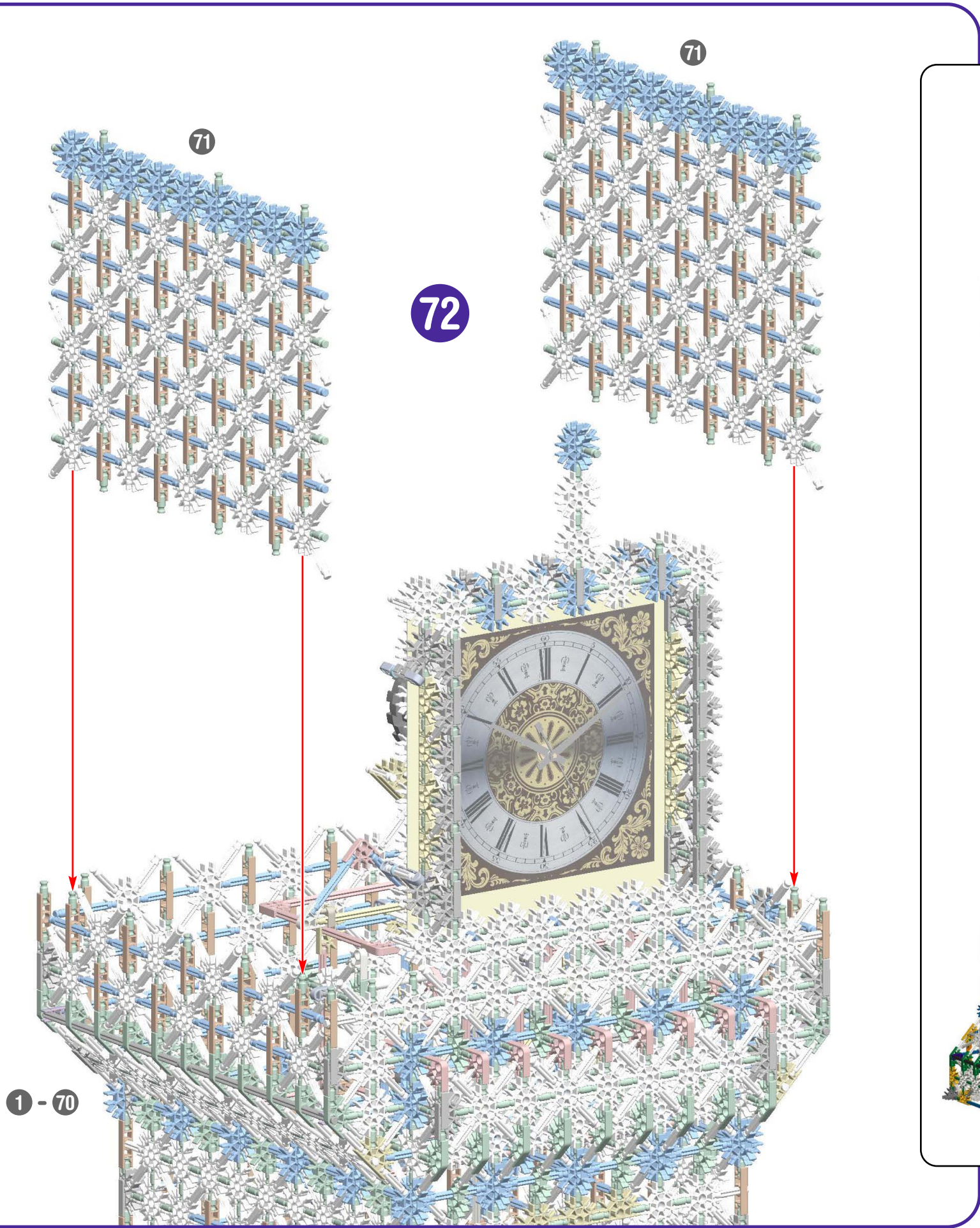
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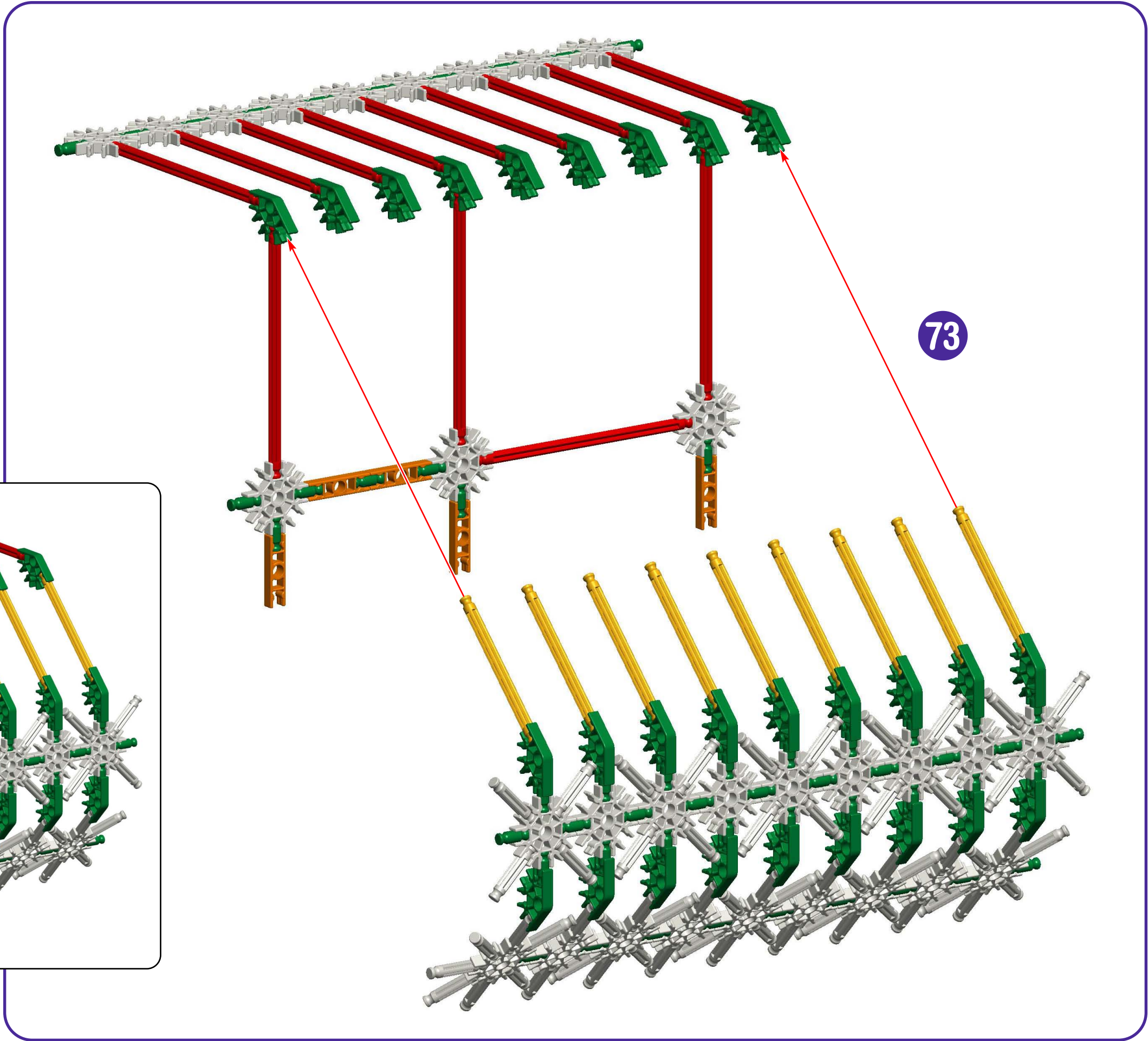
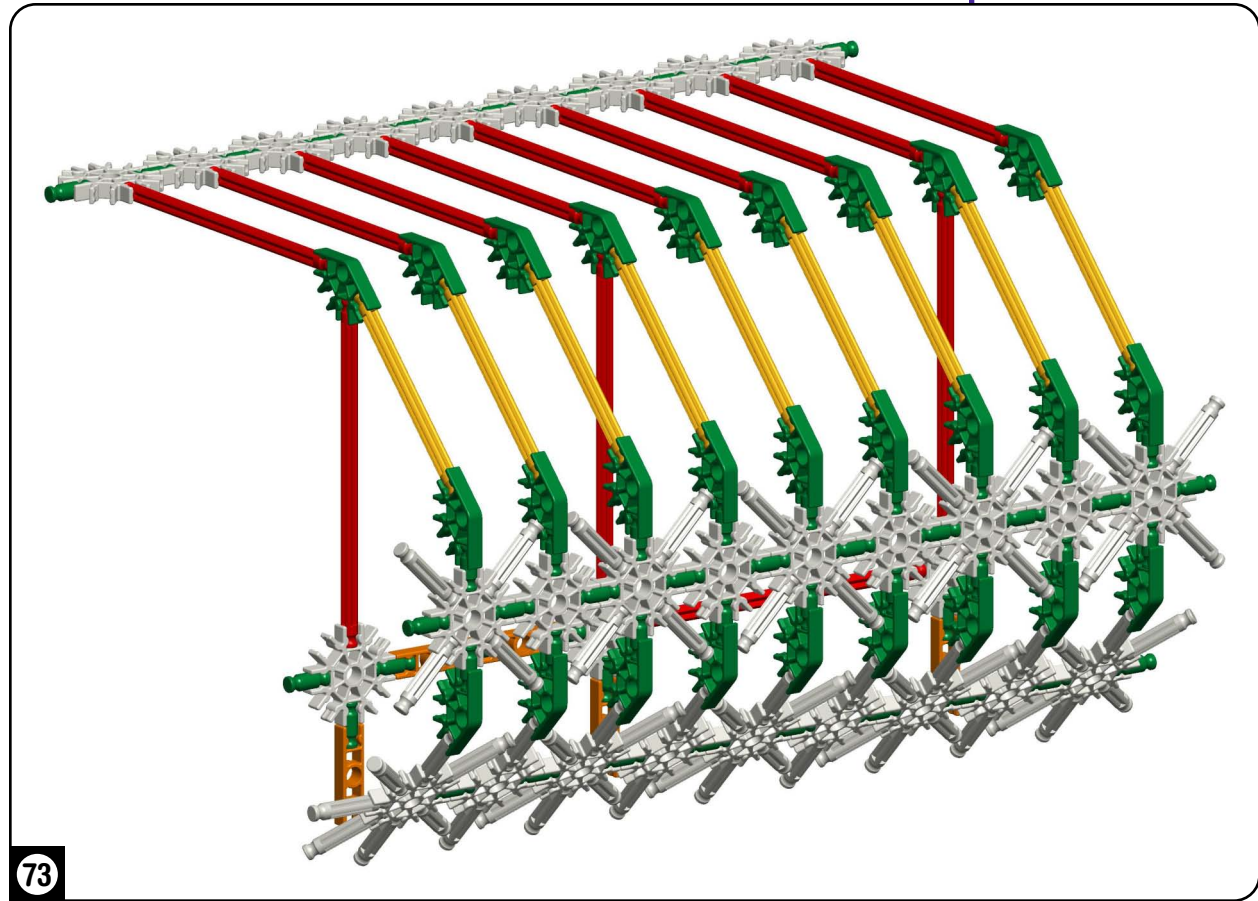


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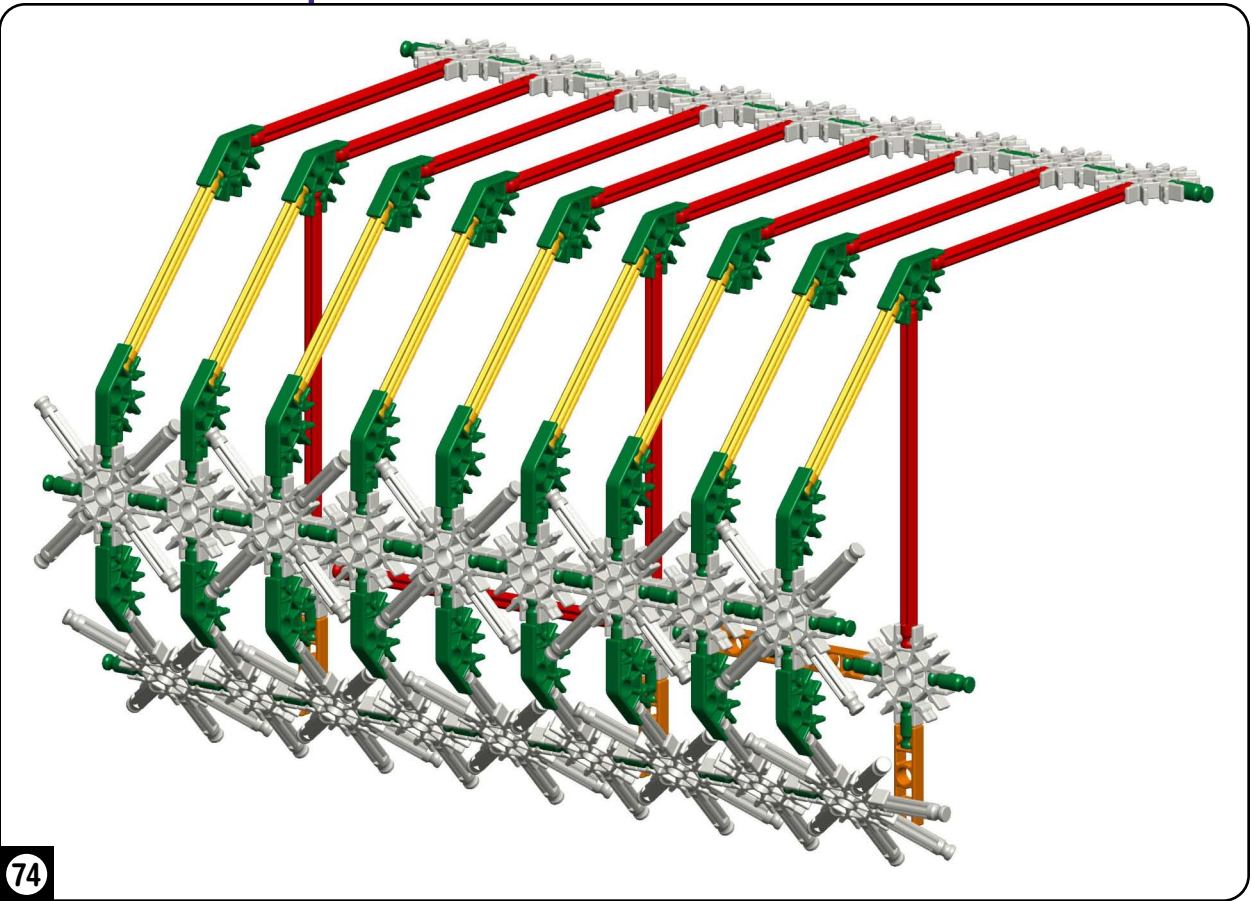
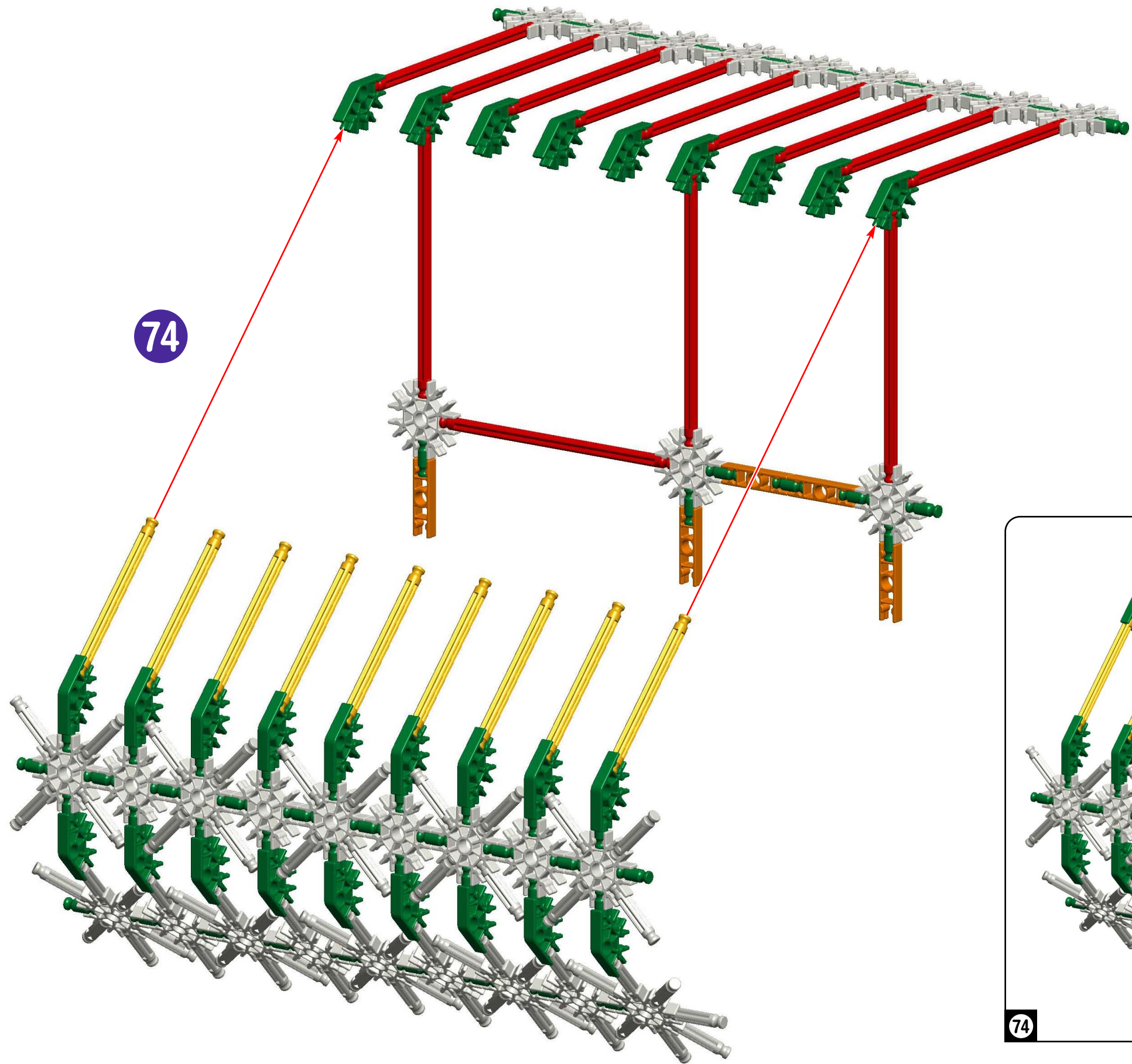


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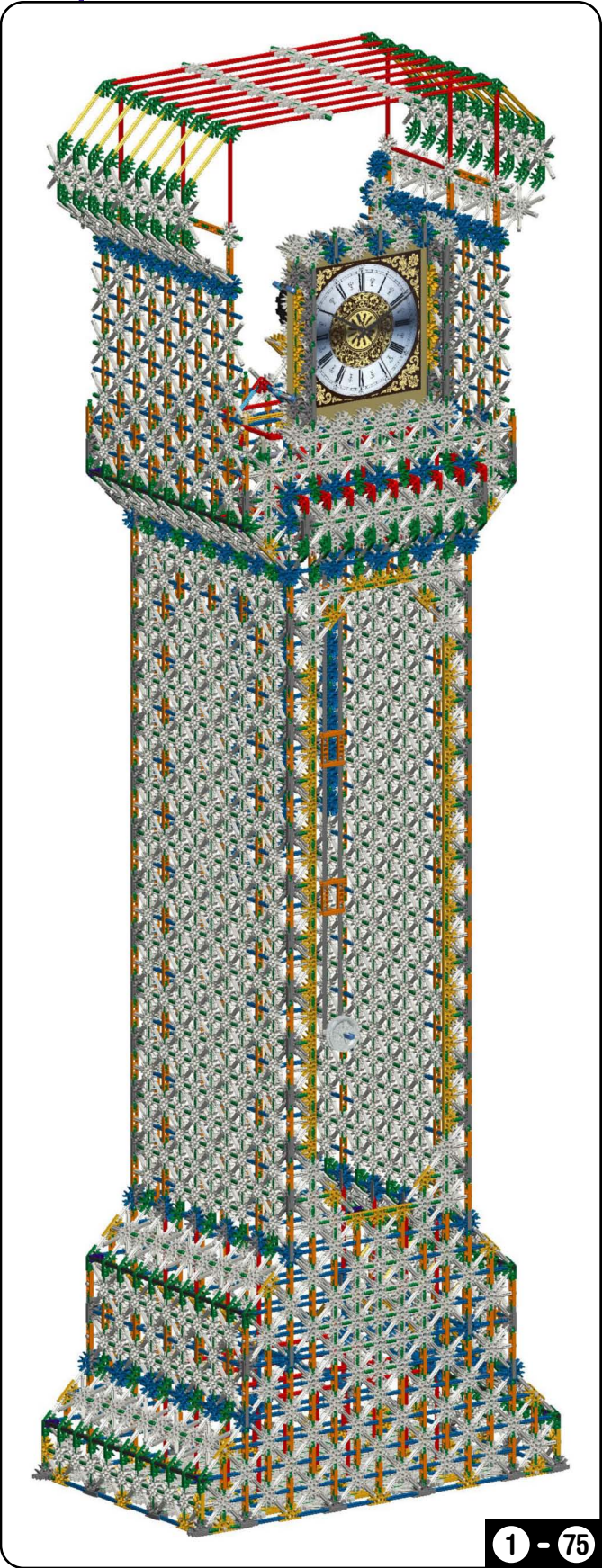
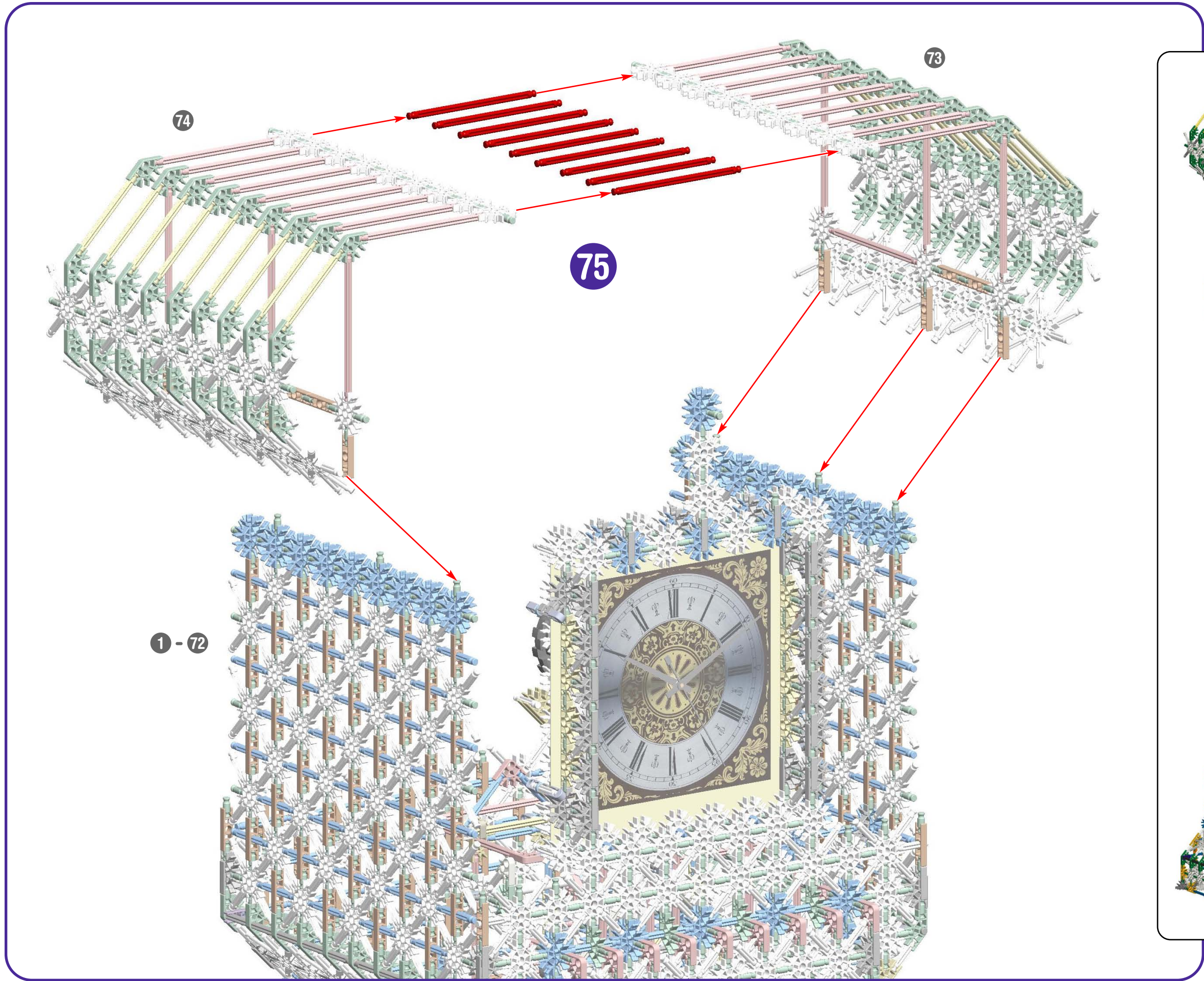


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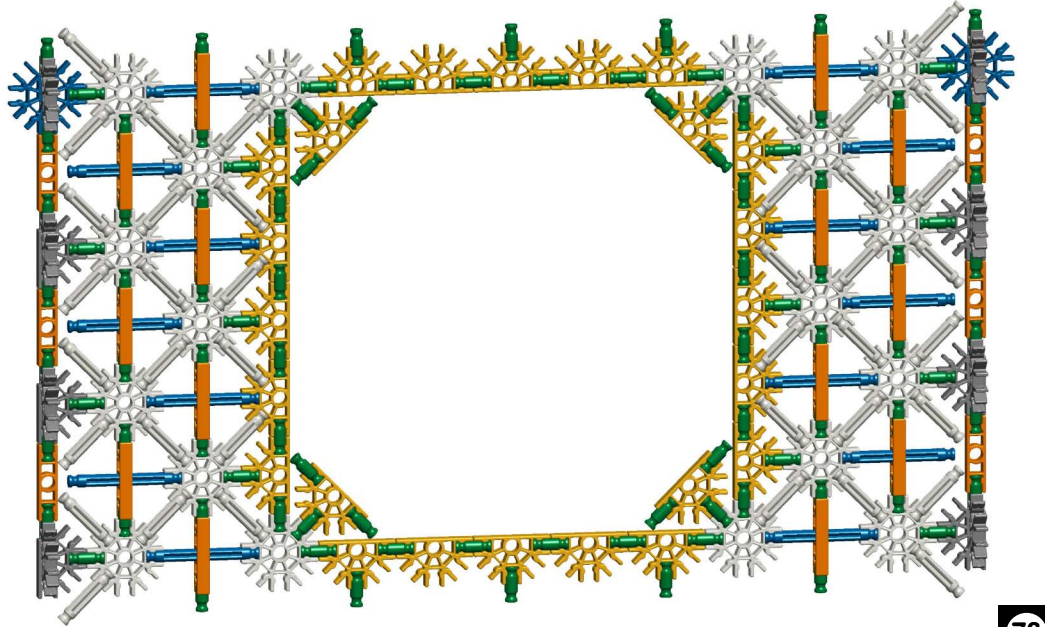
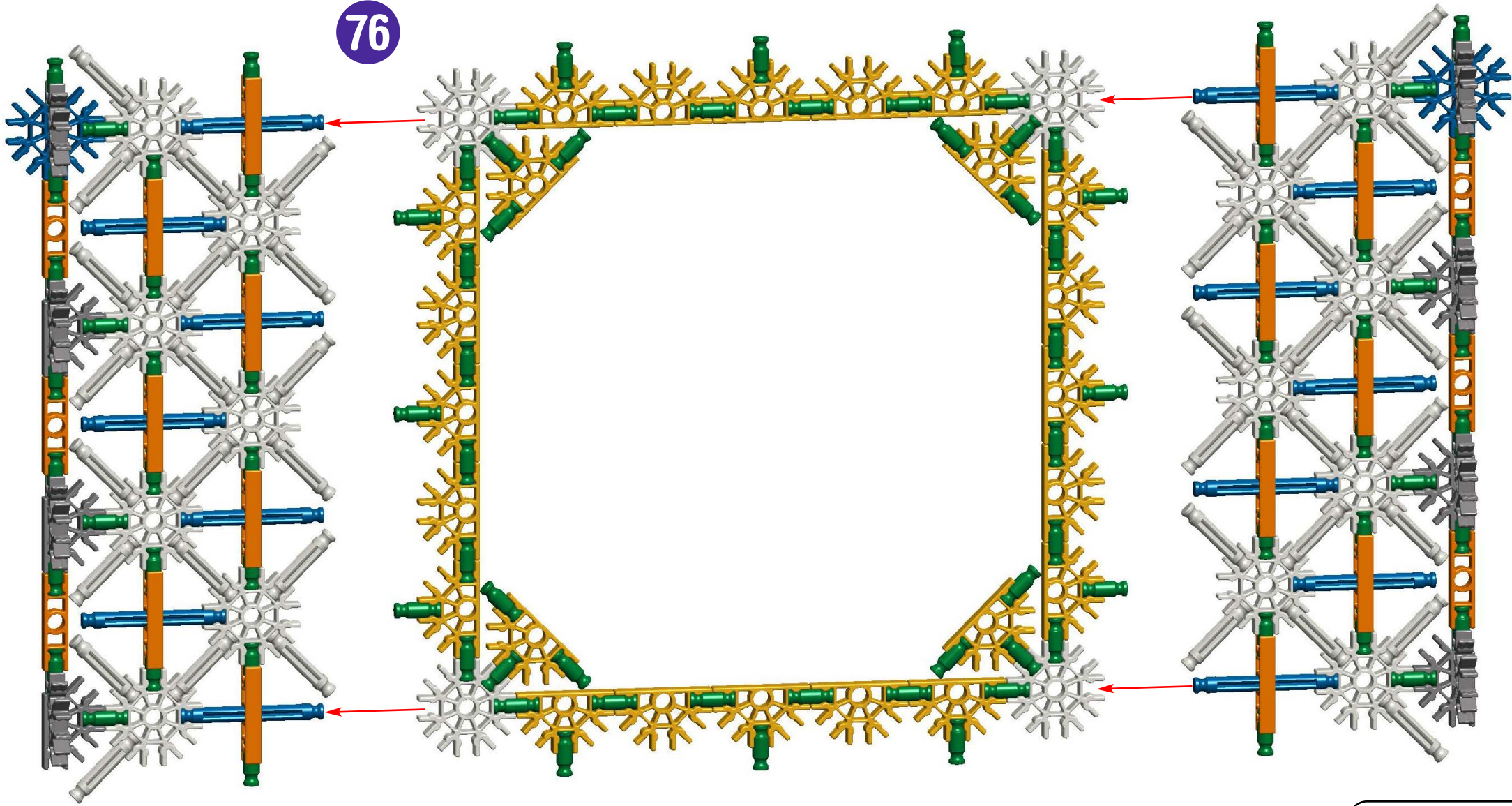


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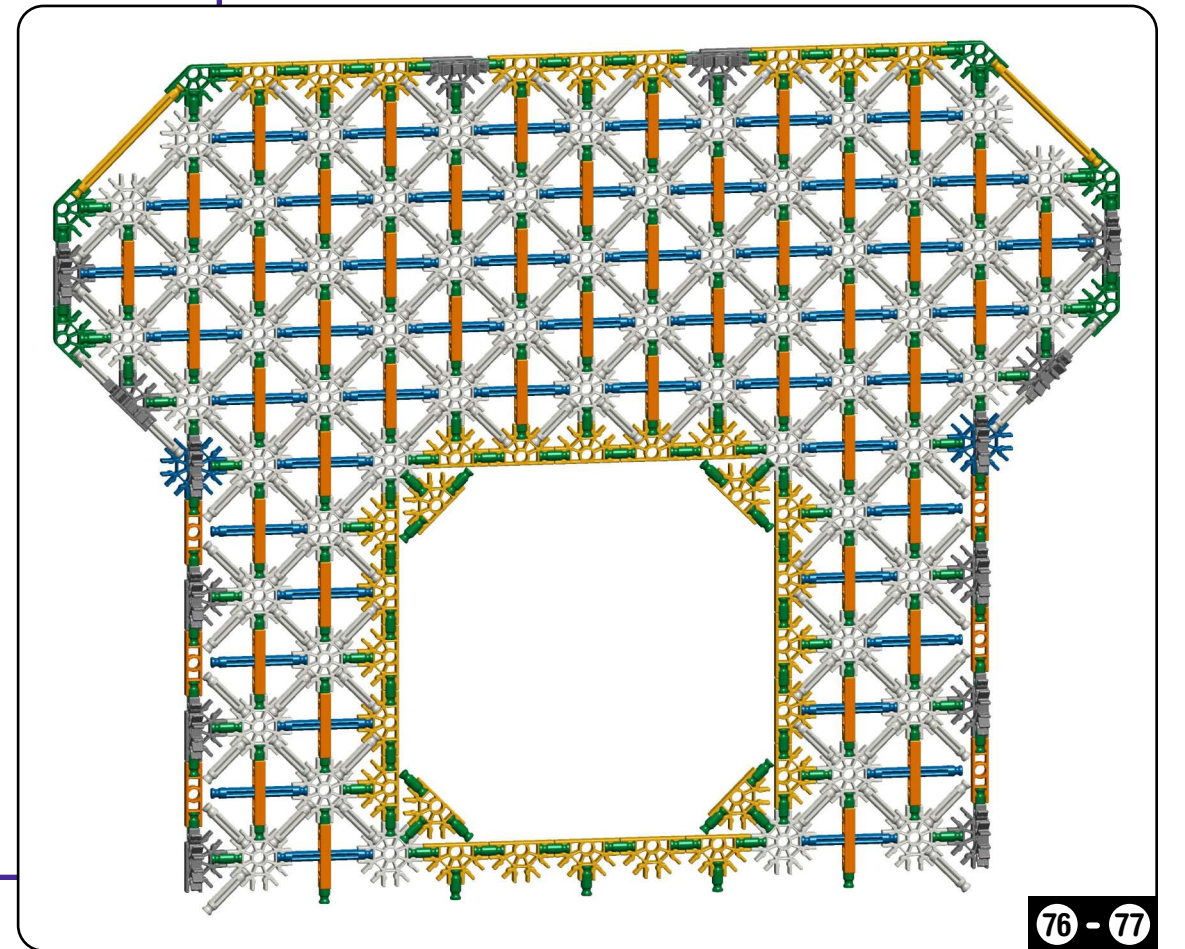
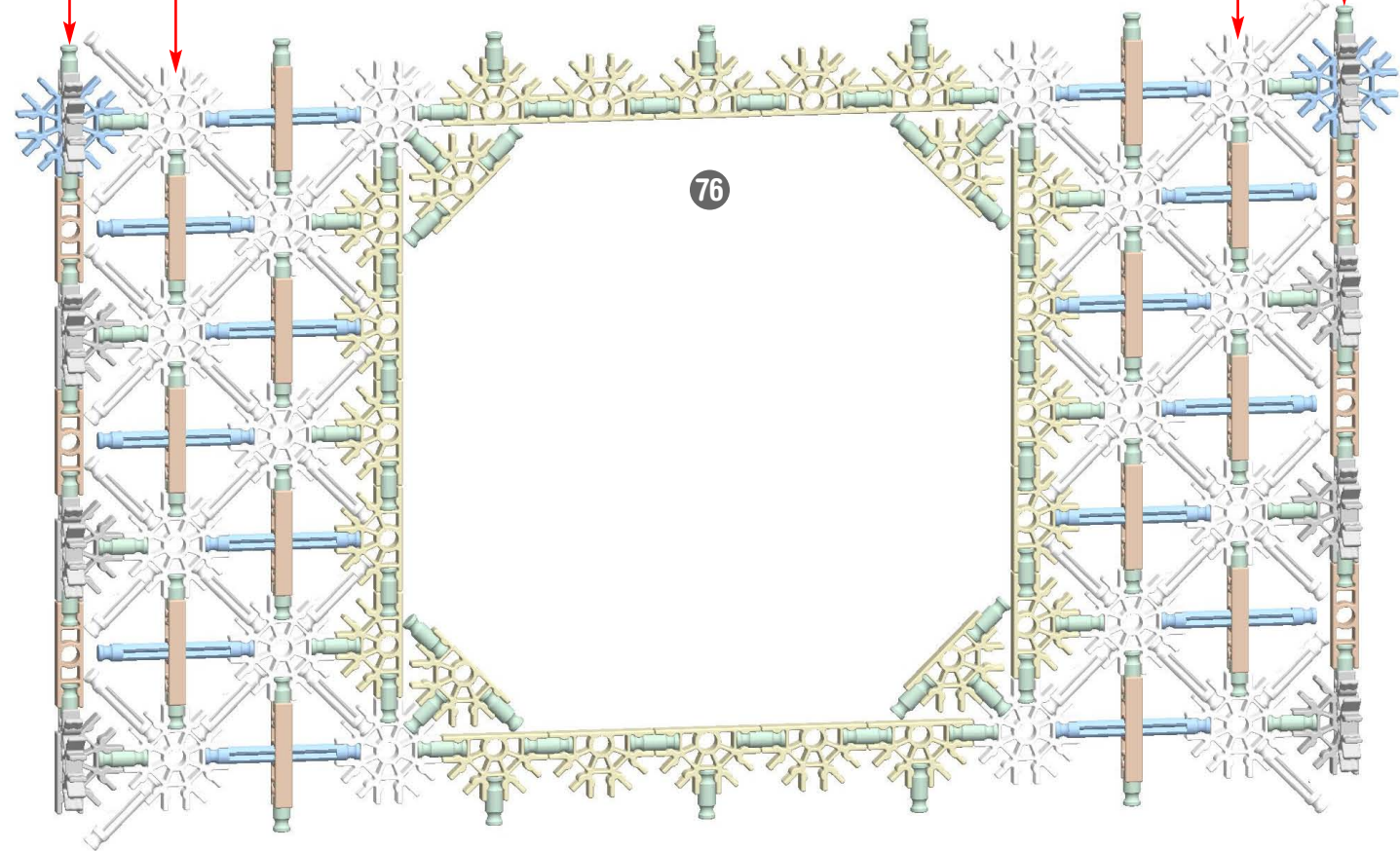
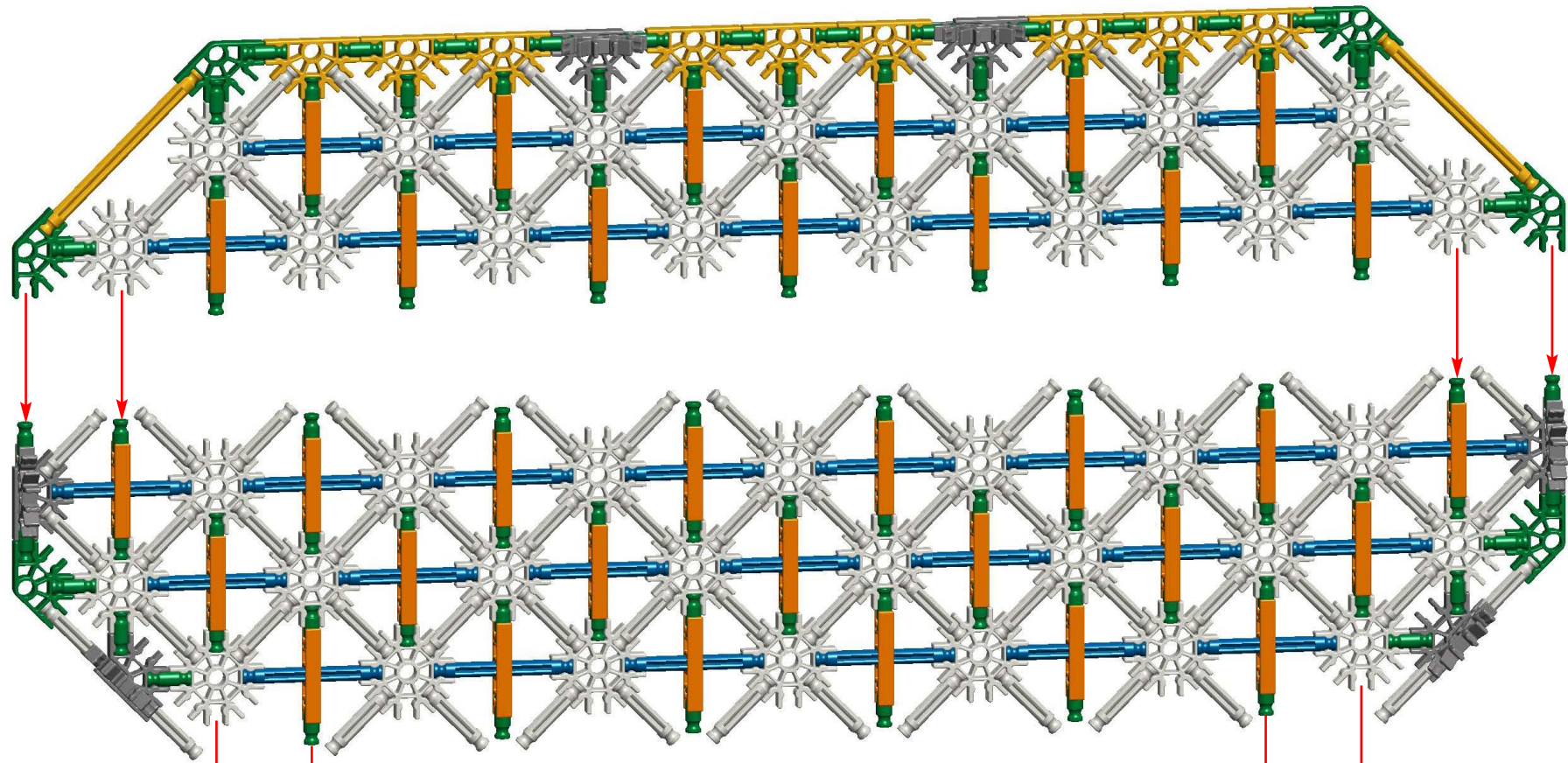




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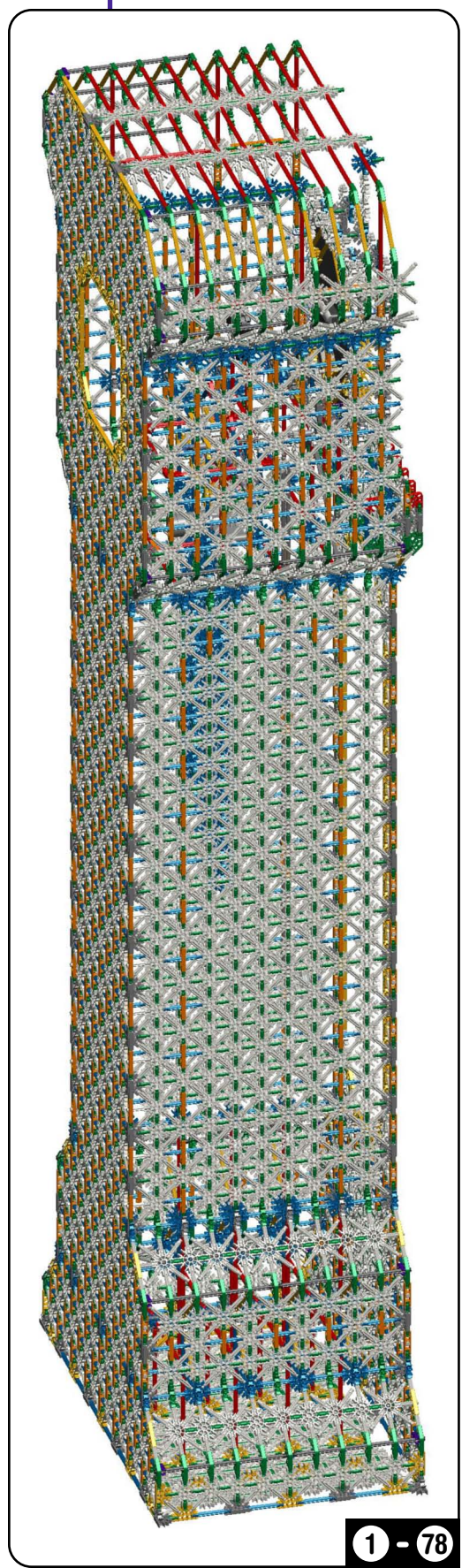
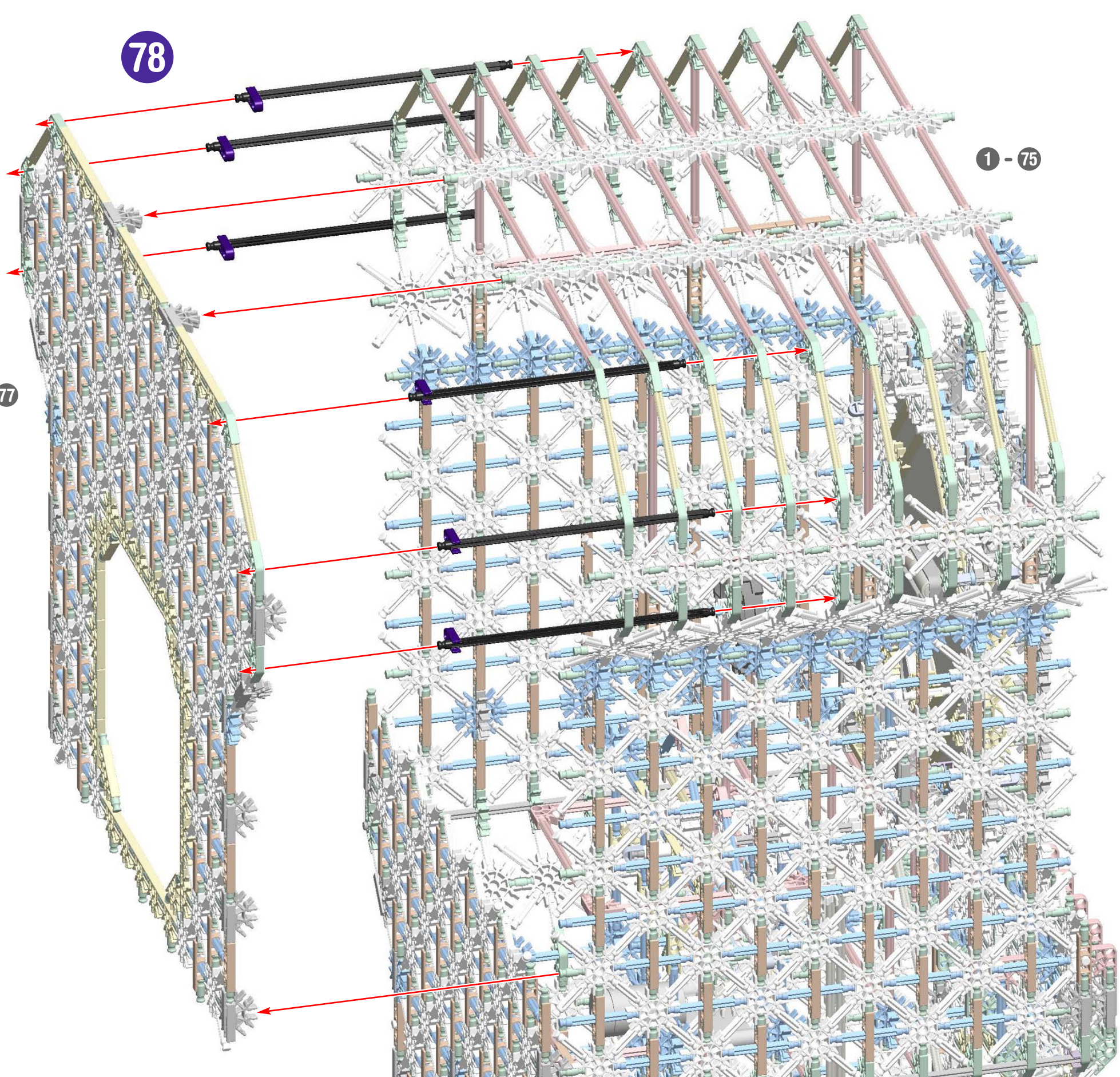
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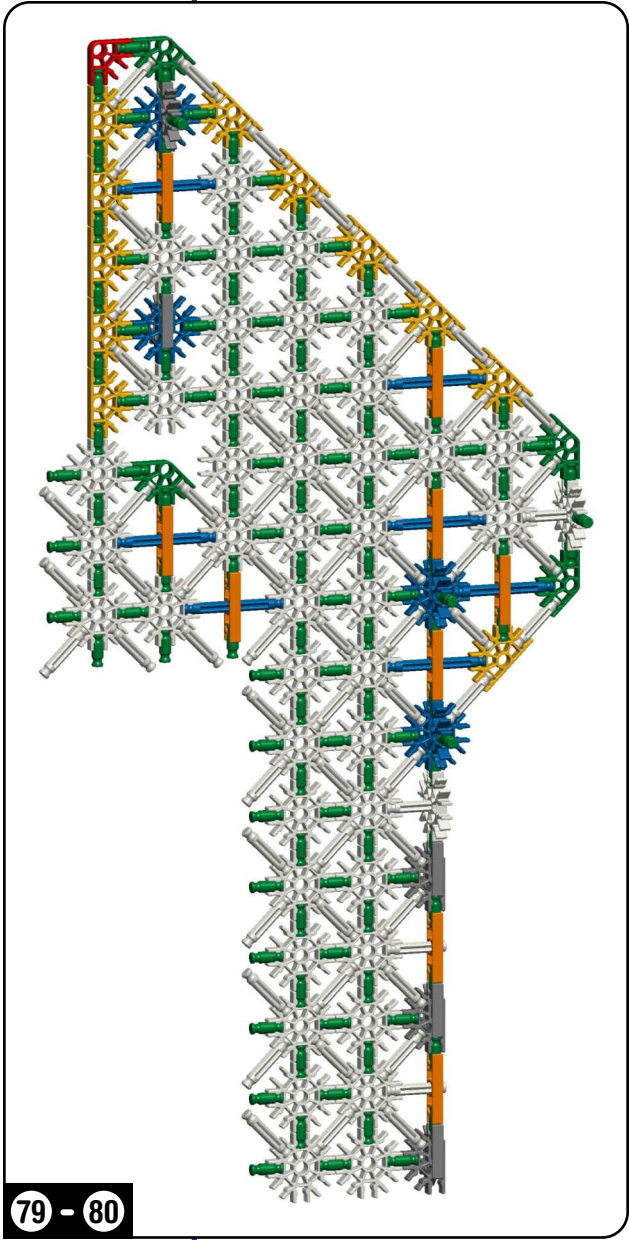
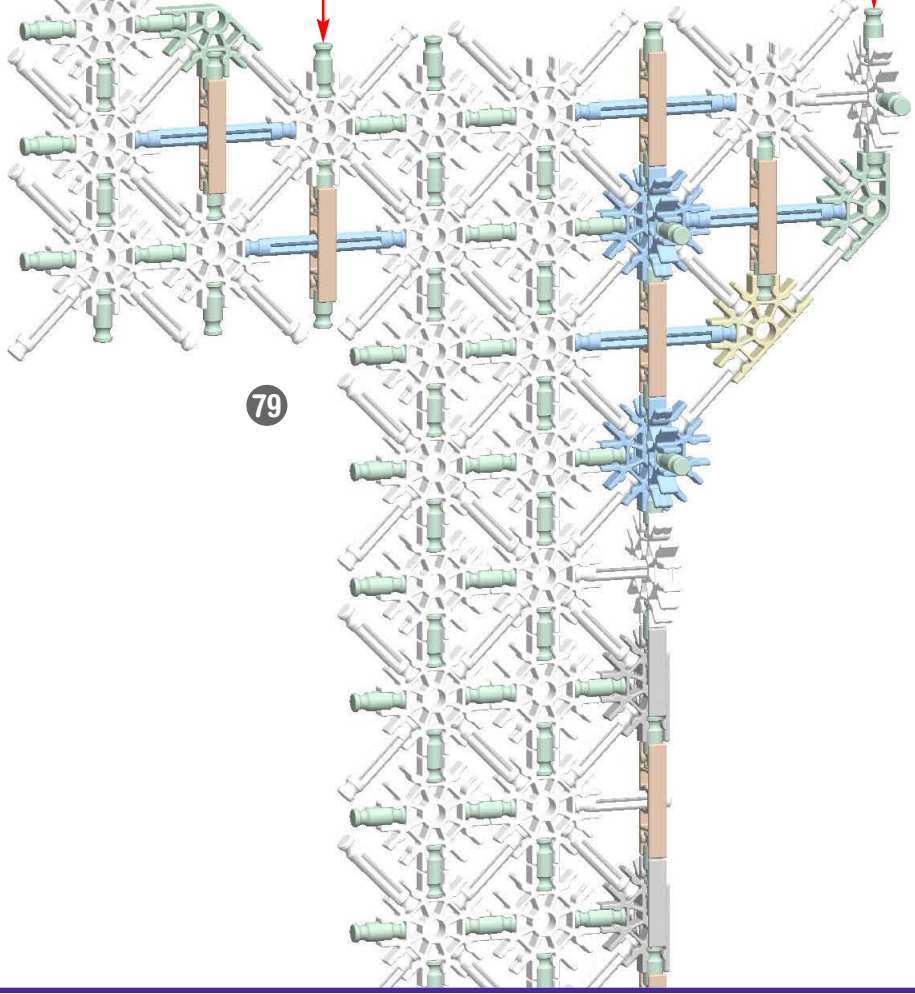
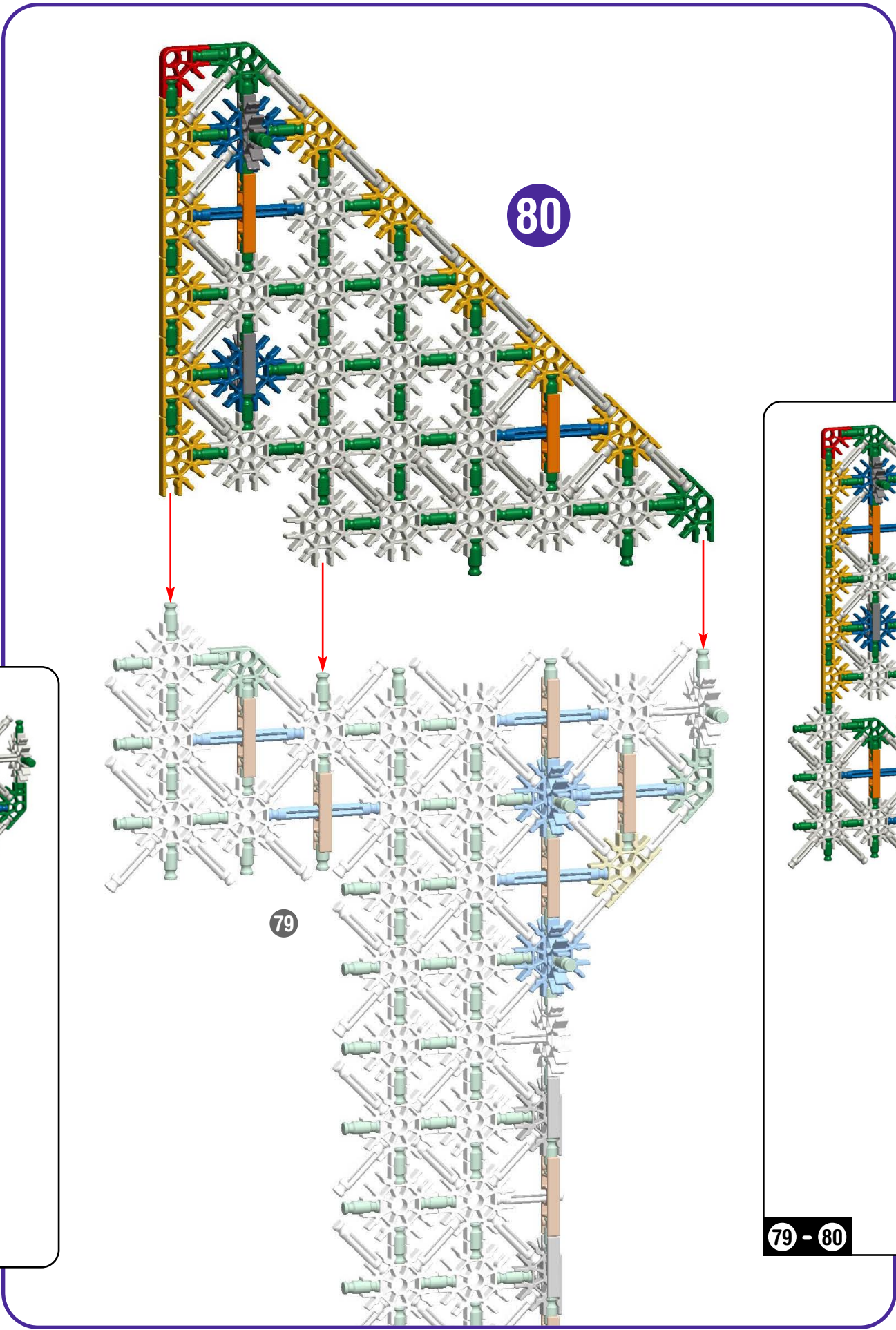
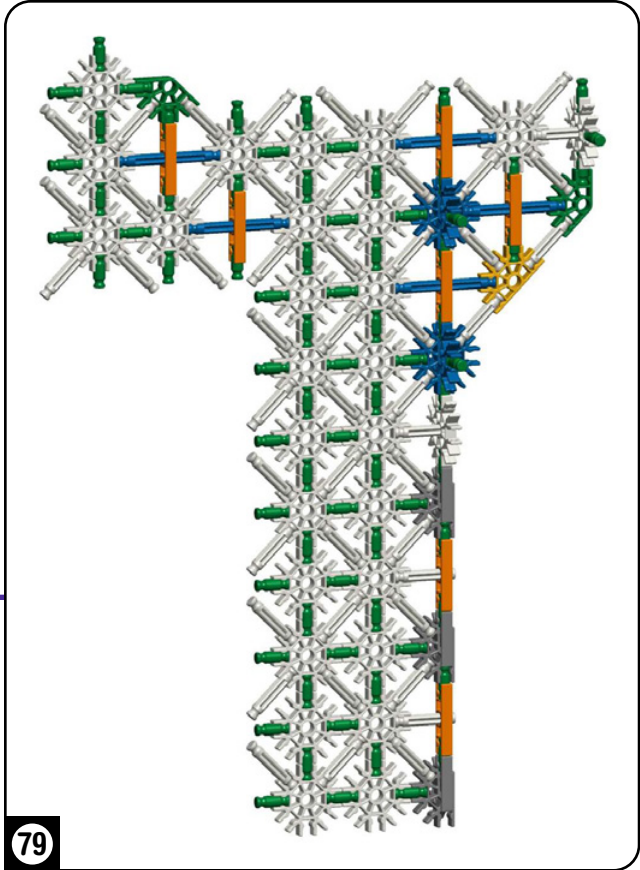
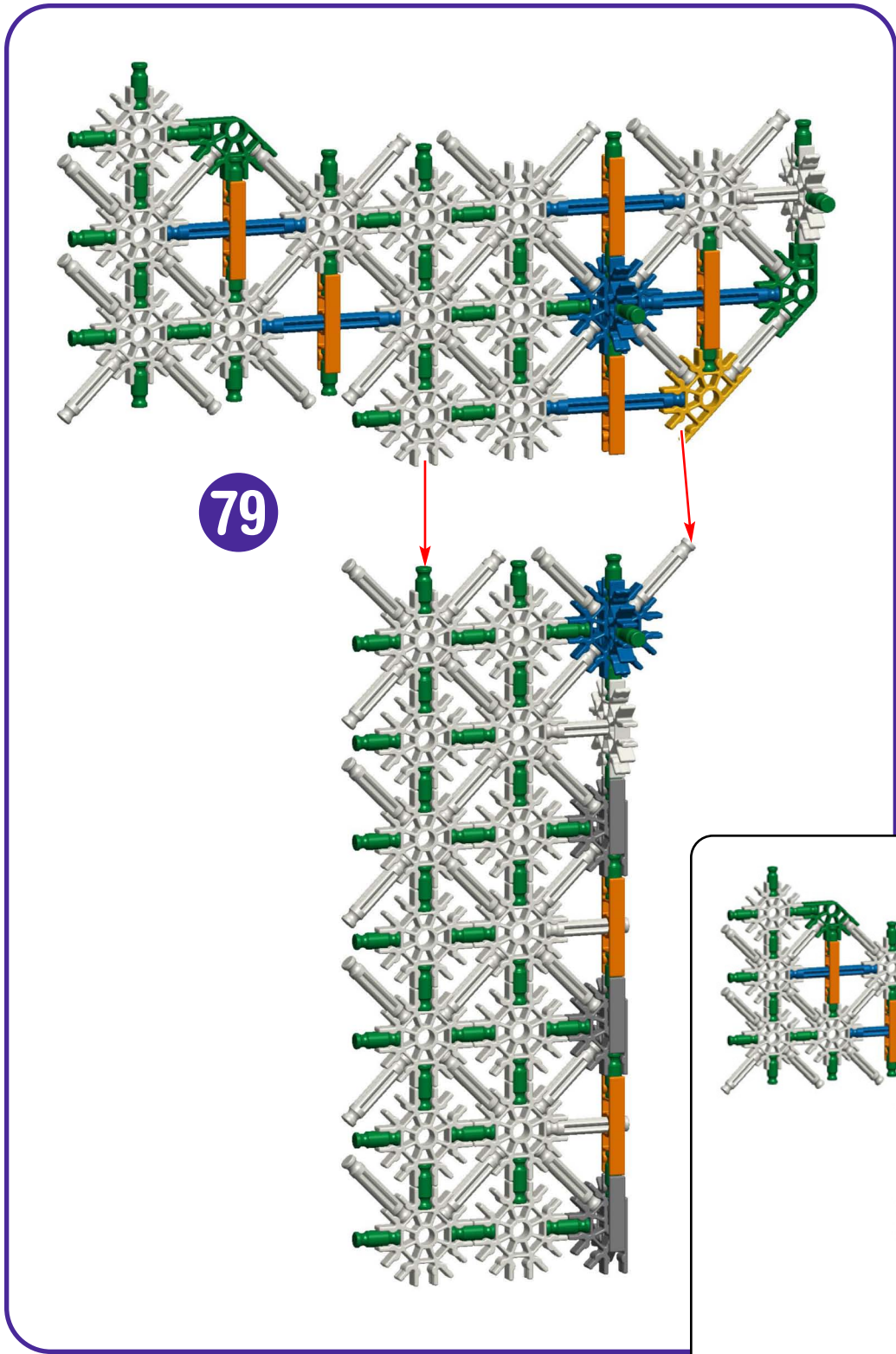
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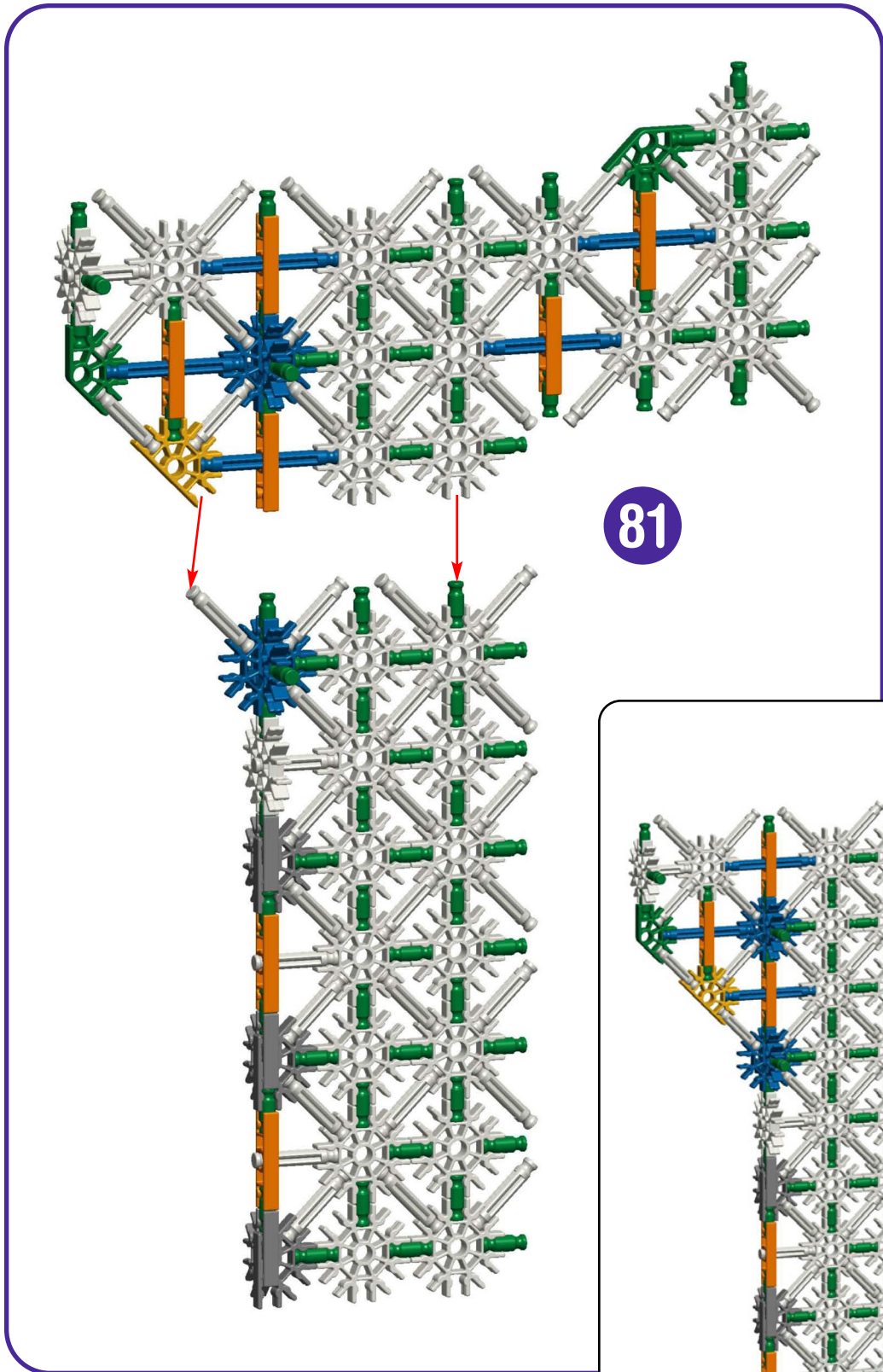
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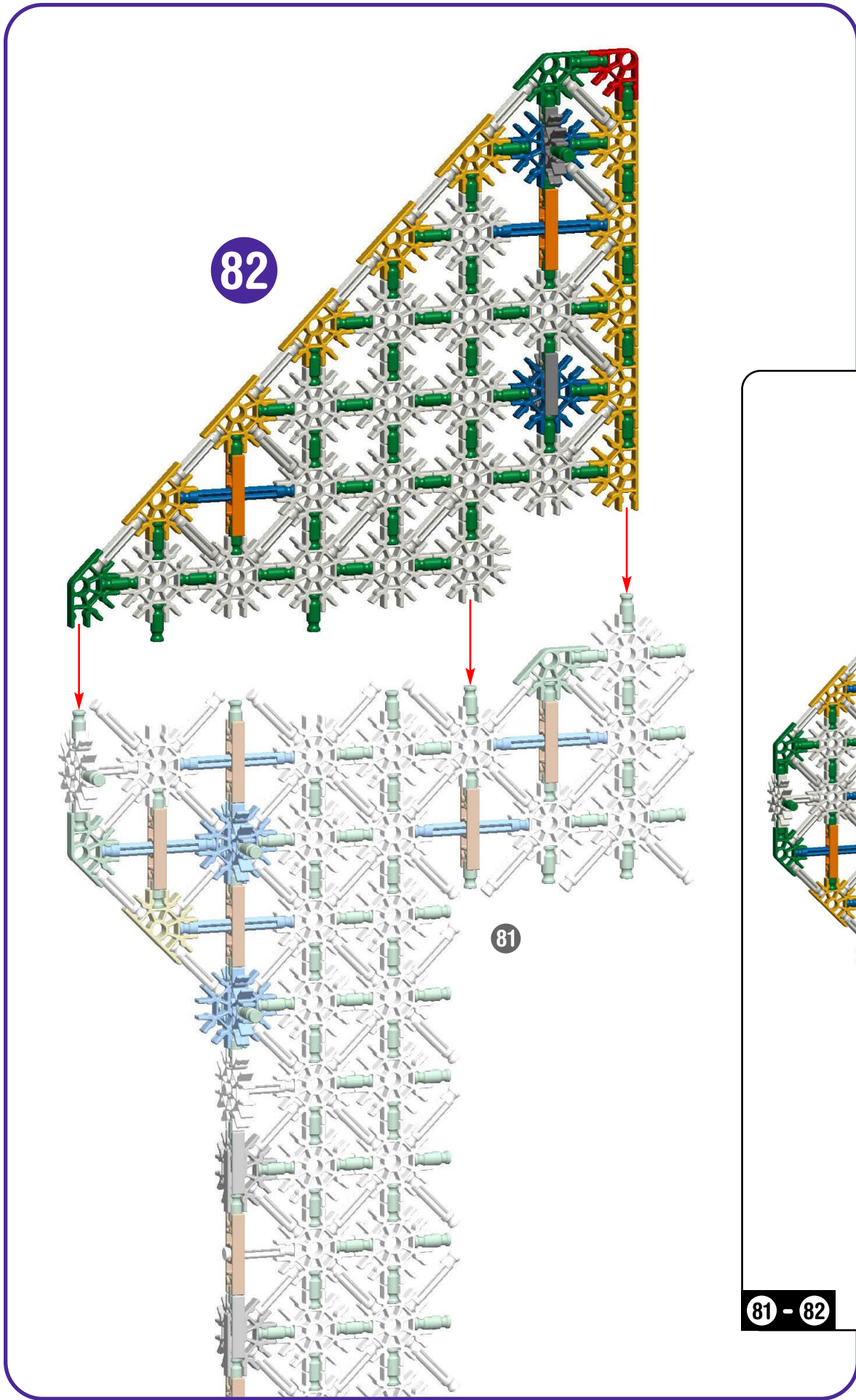
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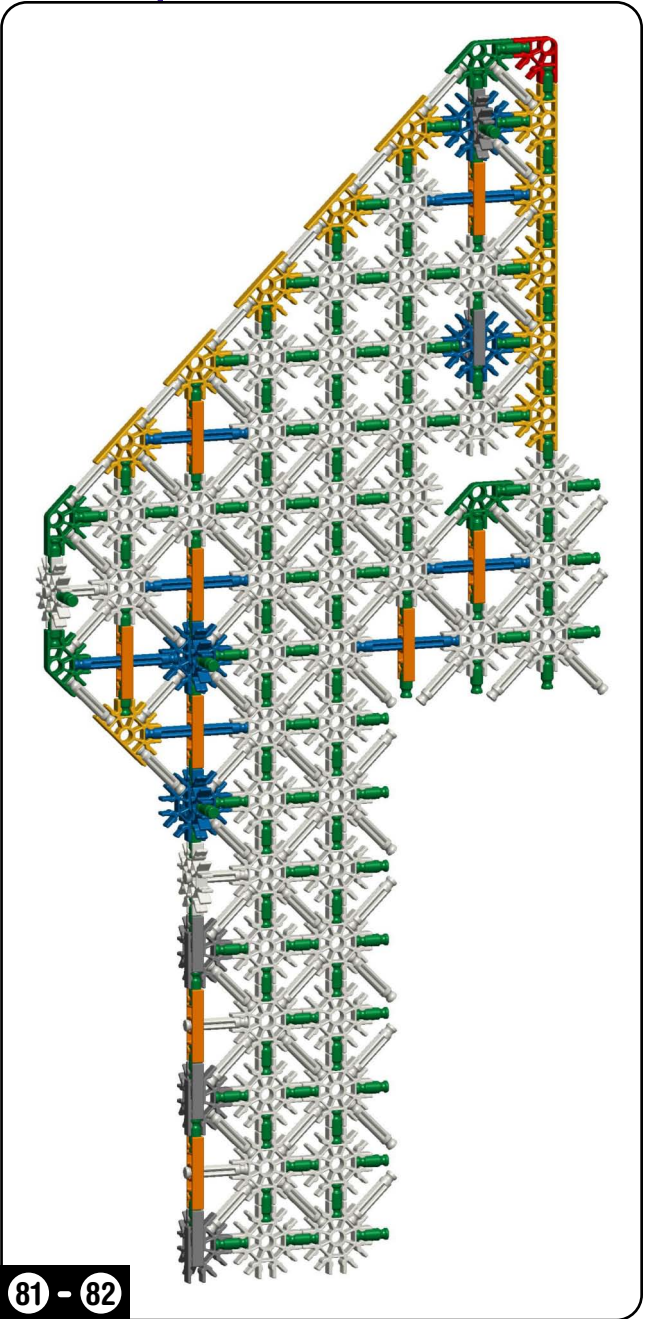
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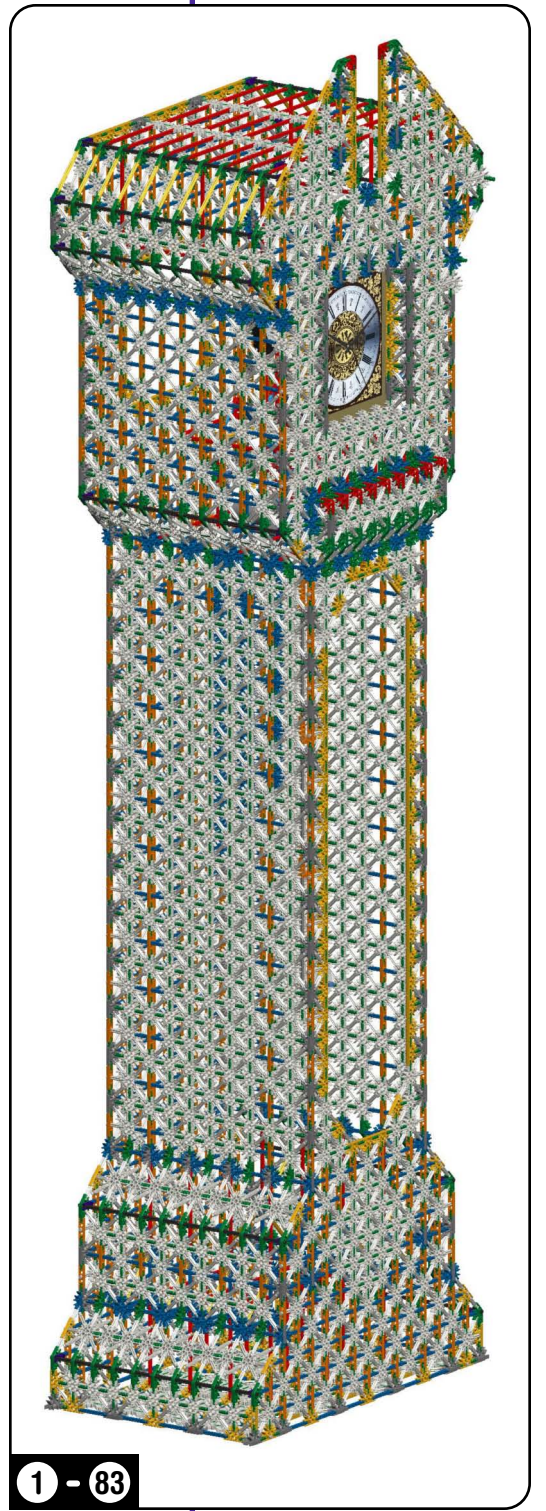
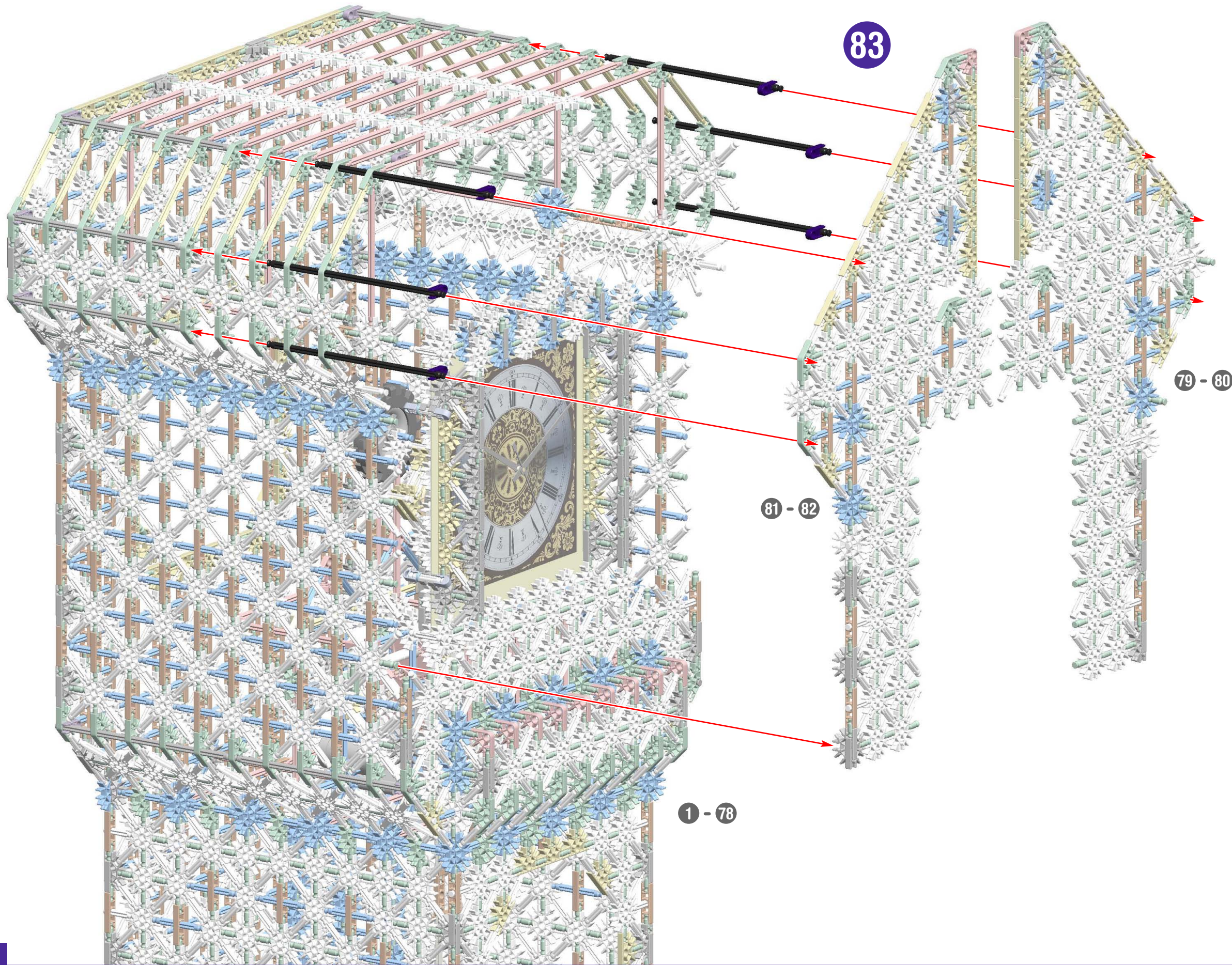


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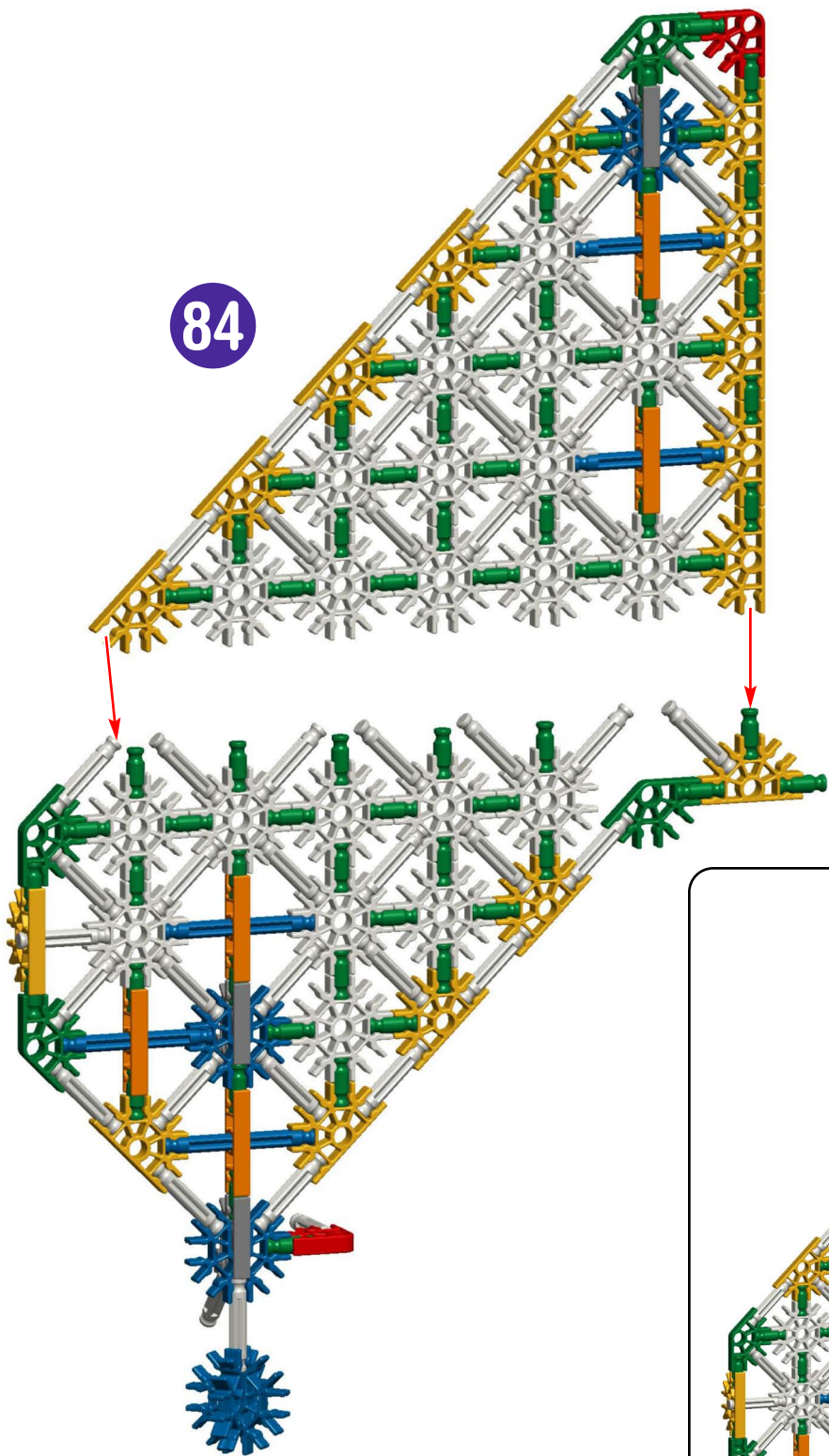
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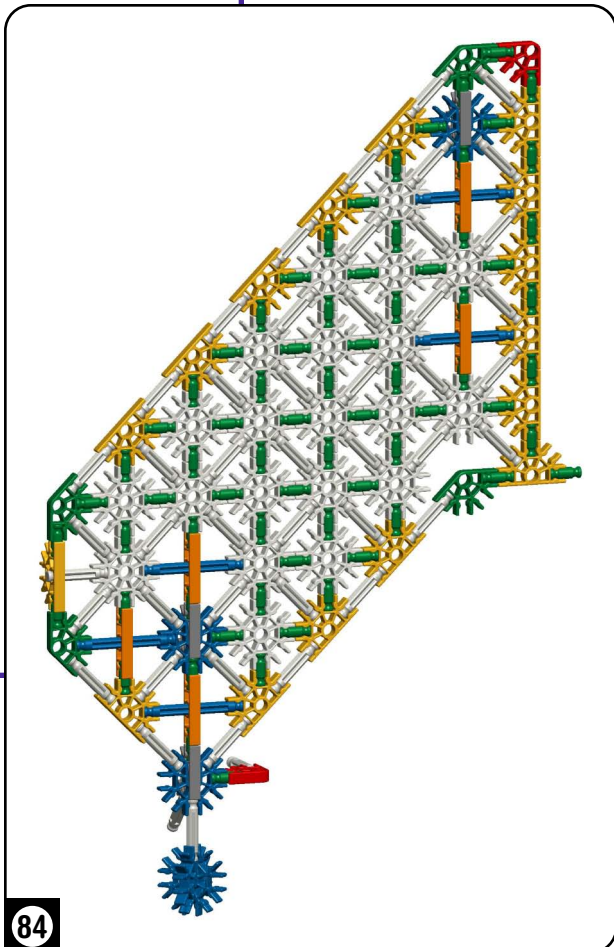




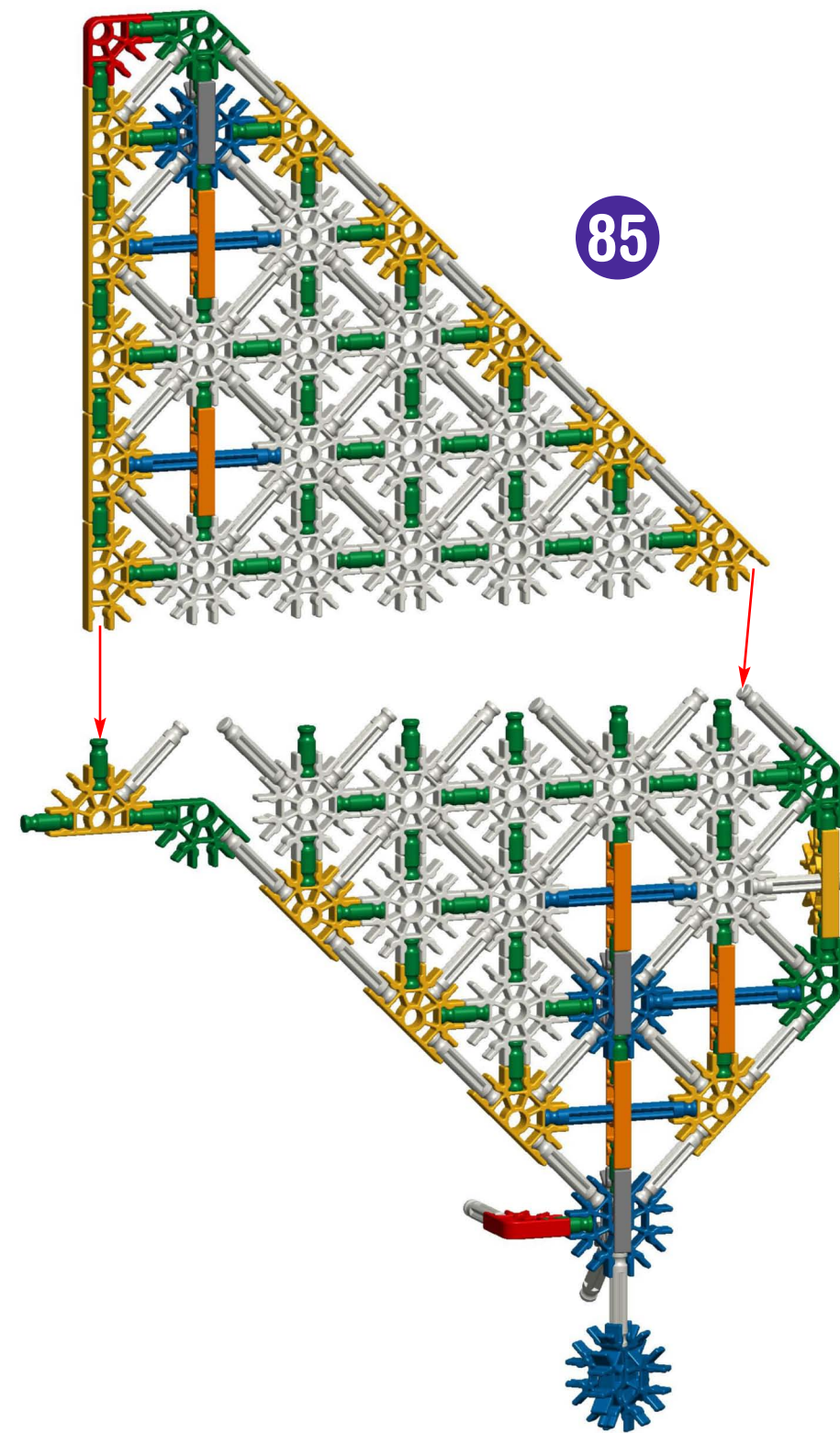
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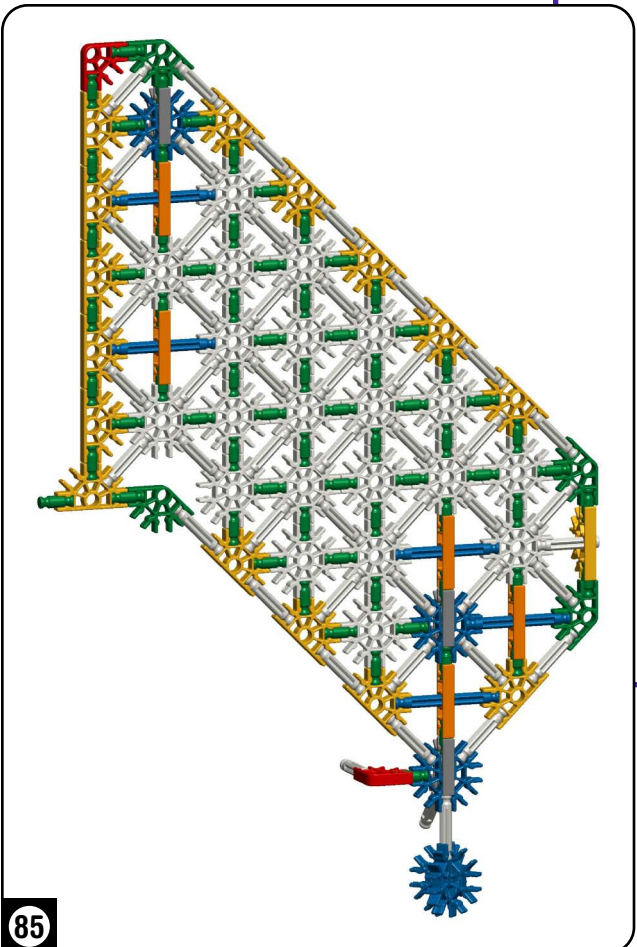
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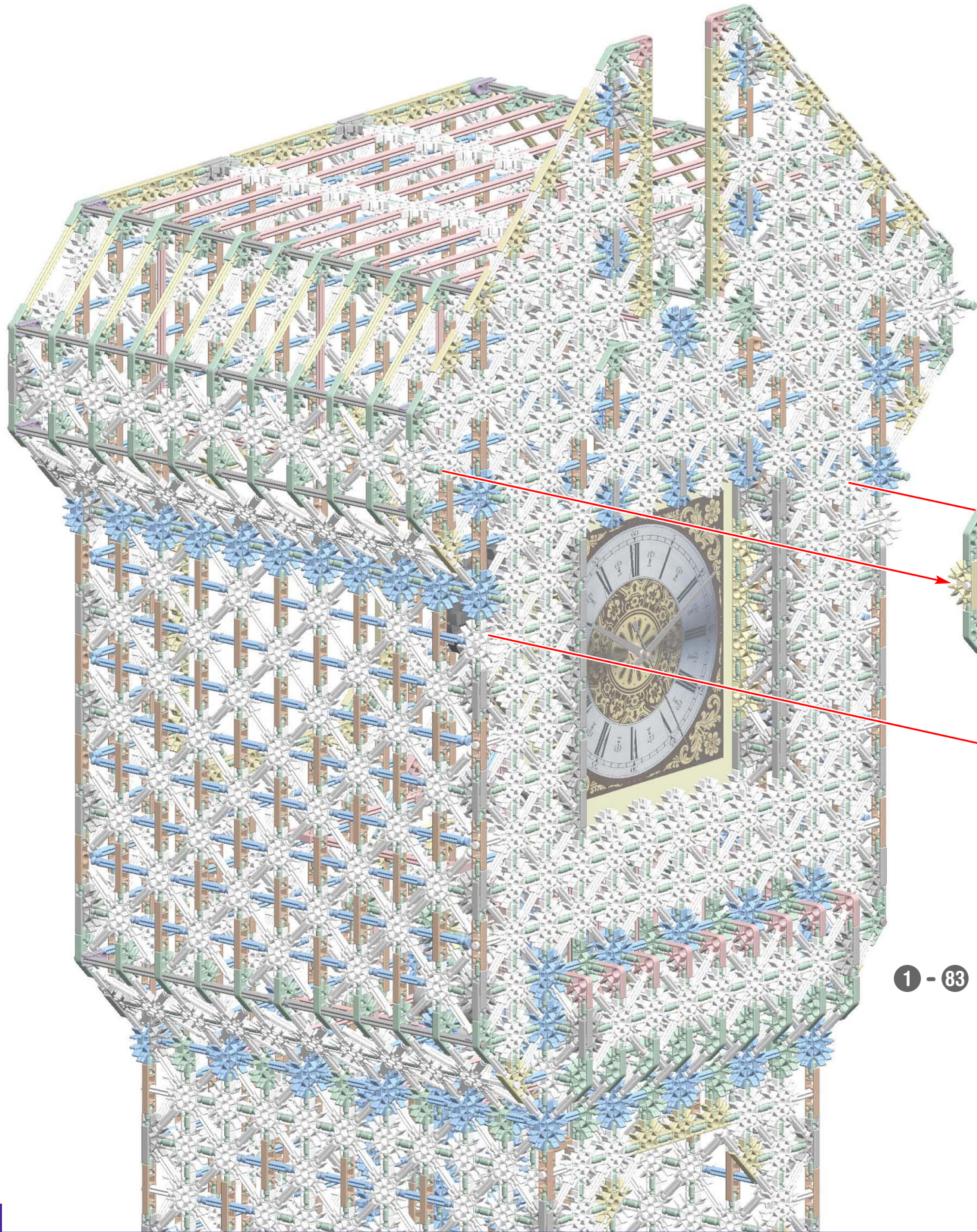
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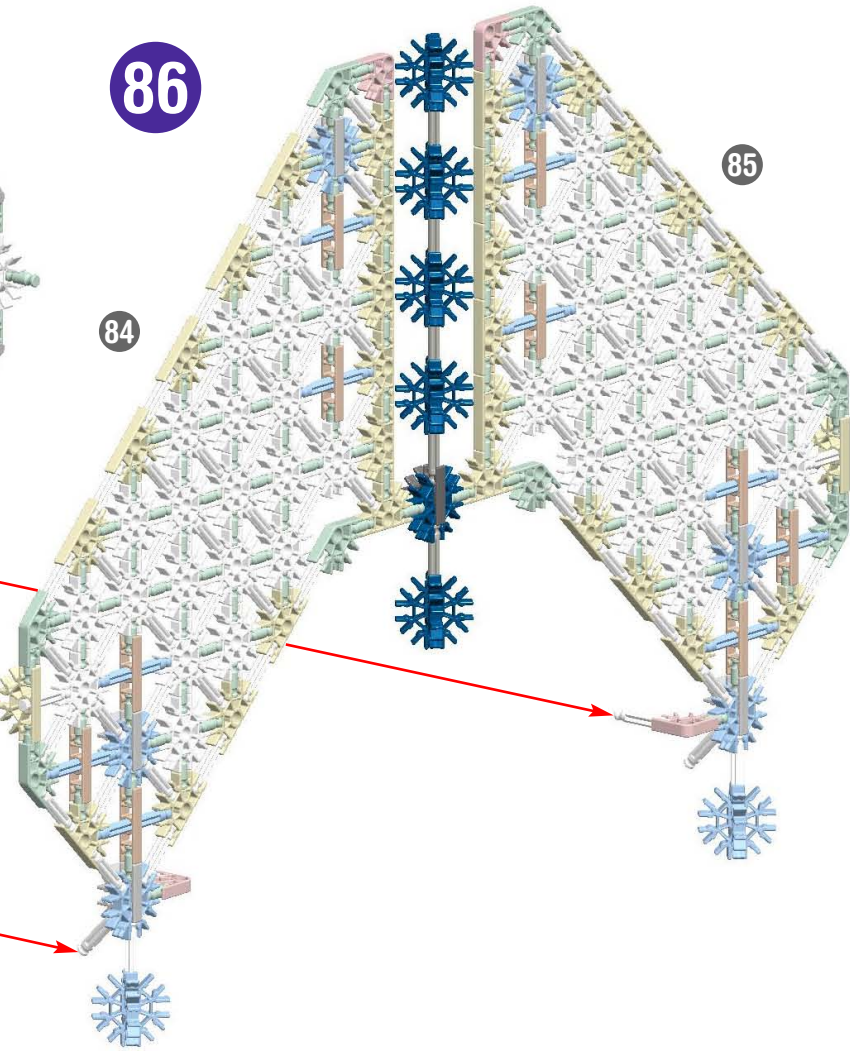




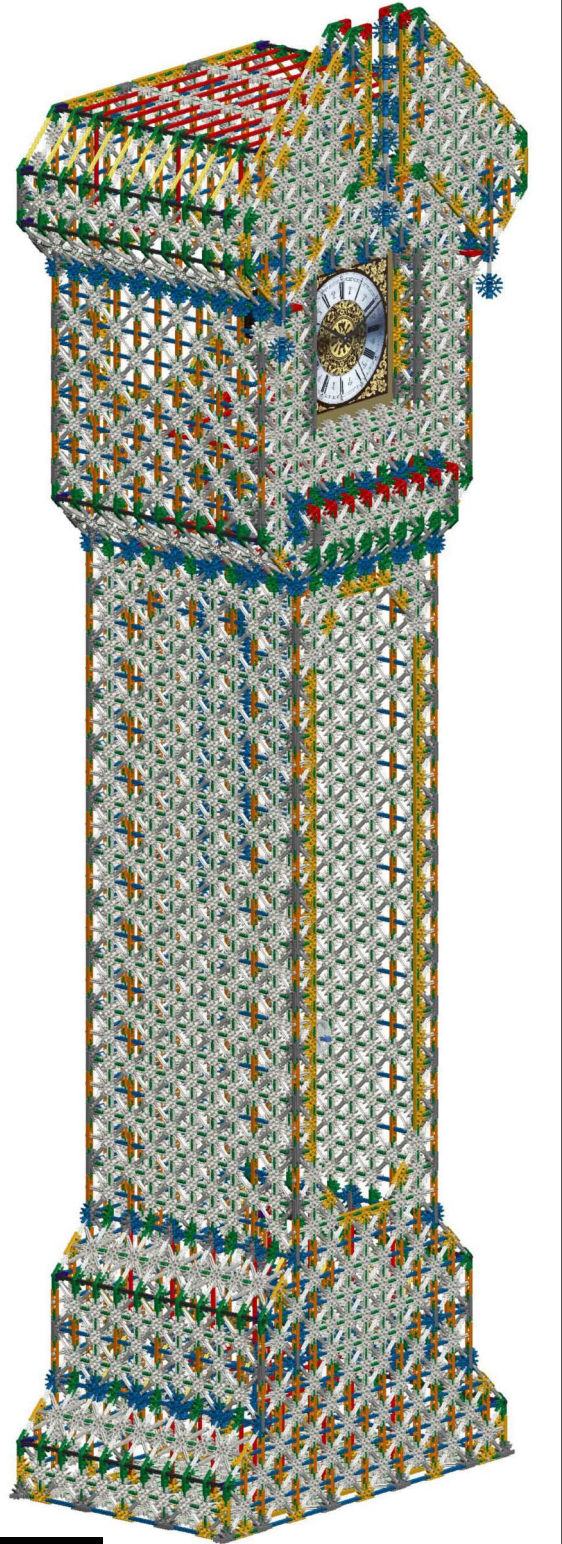
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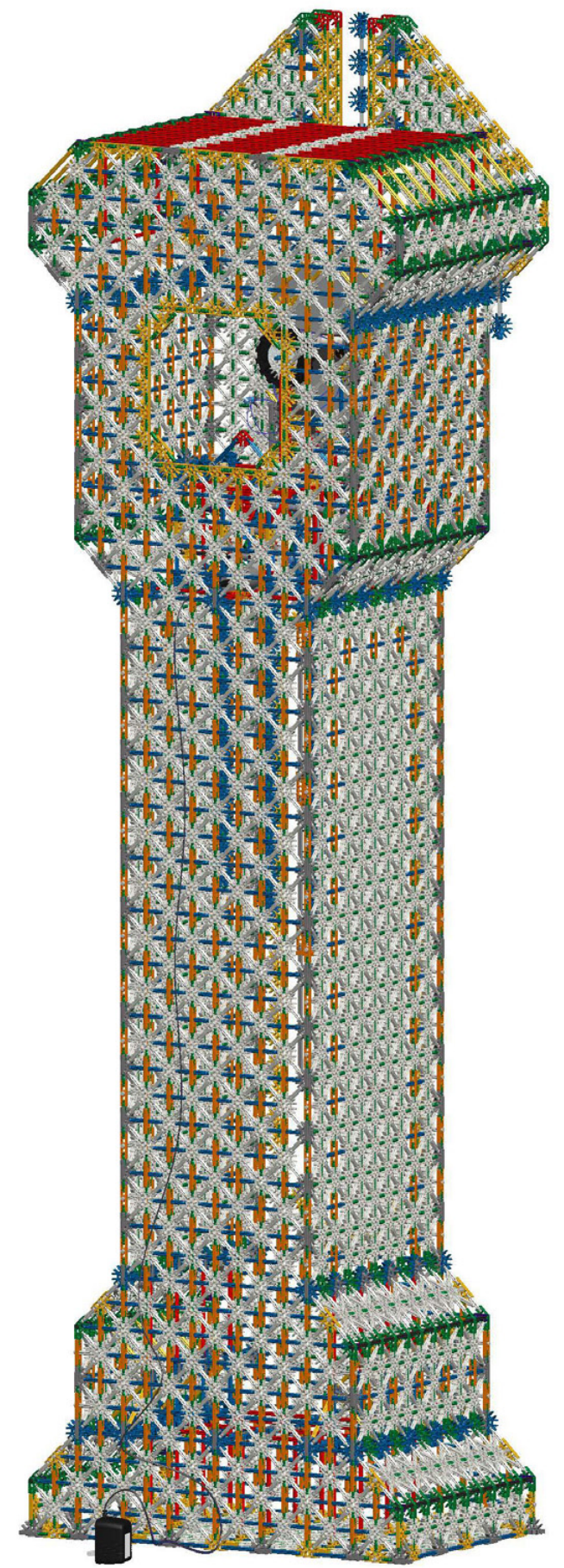
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Attach the electrical adapter to the motor and plug it into an electrical outlet. Now you are ready to run the K'NEX Grandfather Clock.

Fixez l'adaptateur électrique au moteur et branchez-le dans une prise électrique. Vous êtes maintenant prêt à faire marcher de la grandfather clock K'NEX.



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