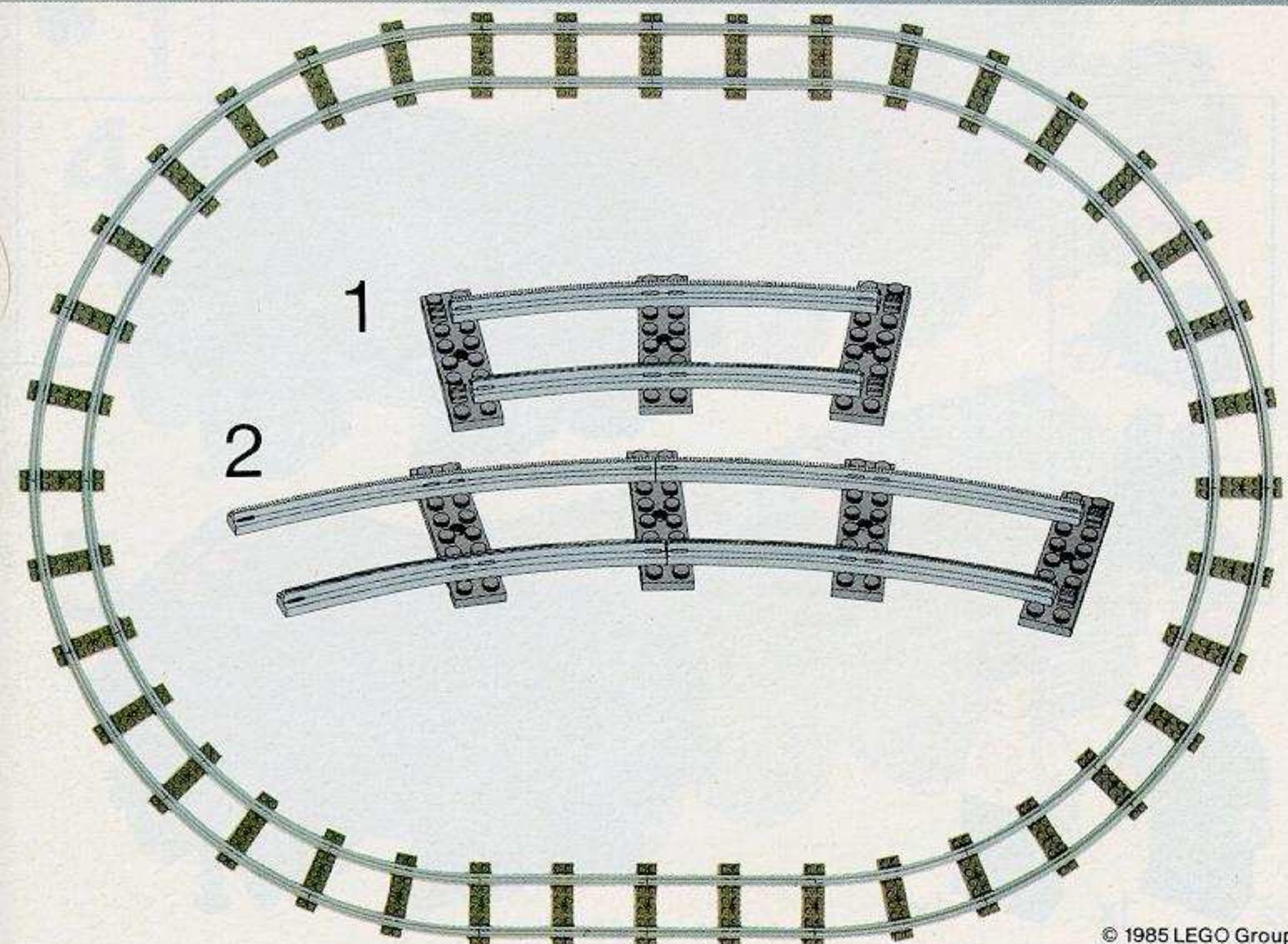


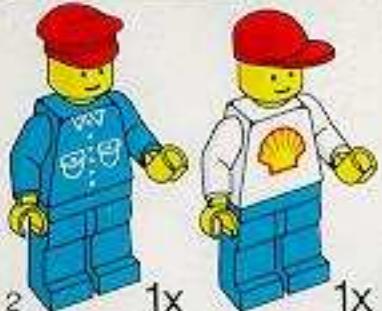
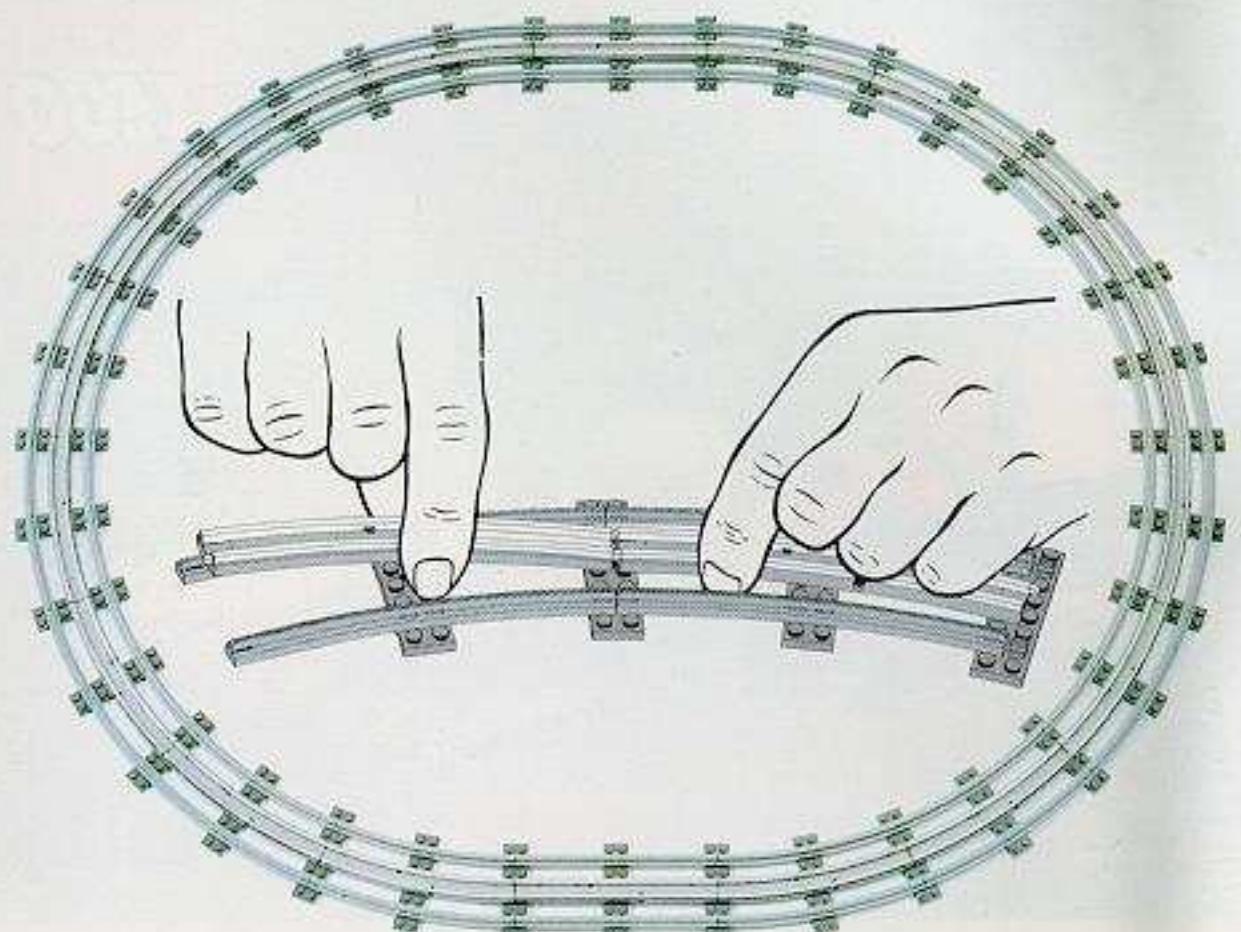
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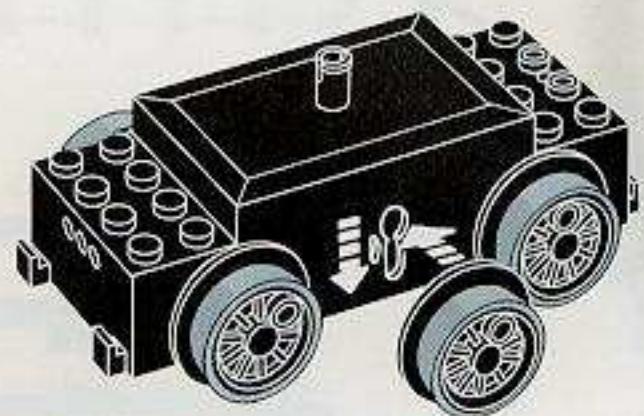
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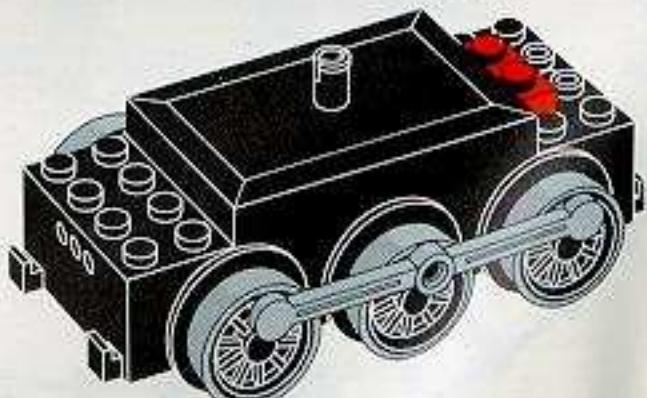
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1



2



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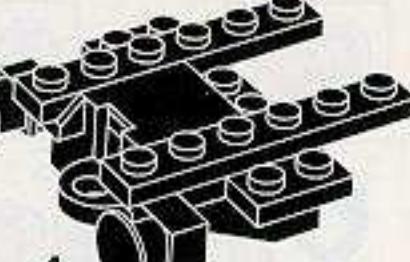
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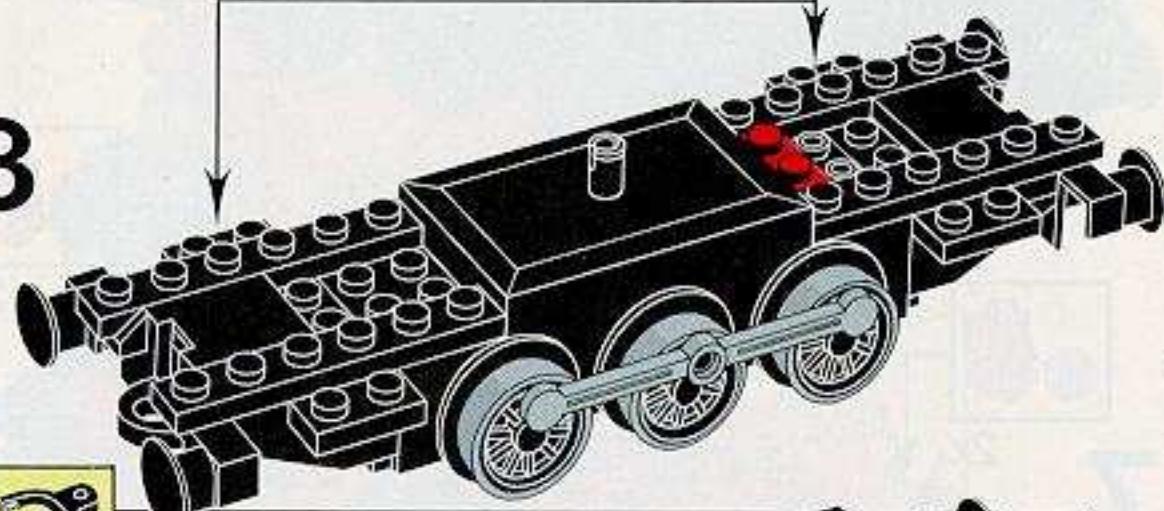
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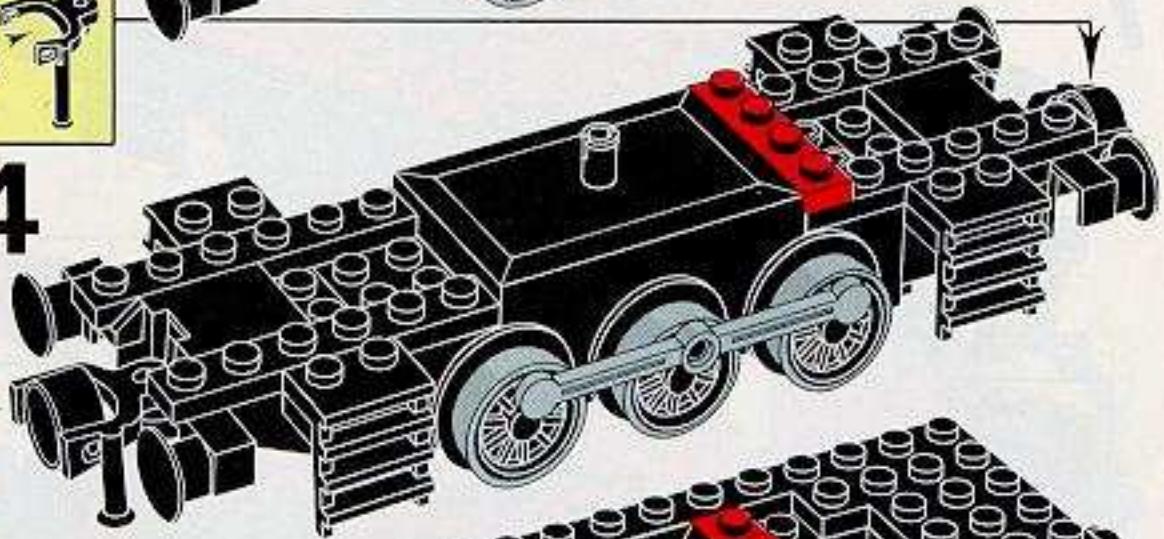
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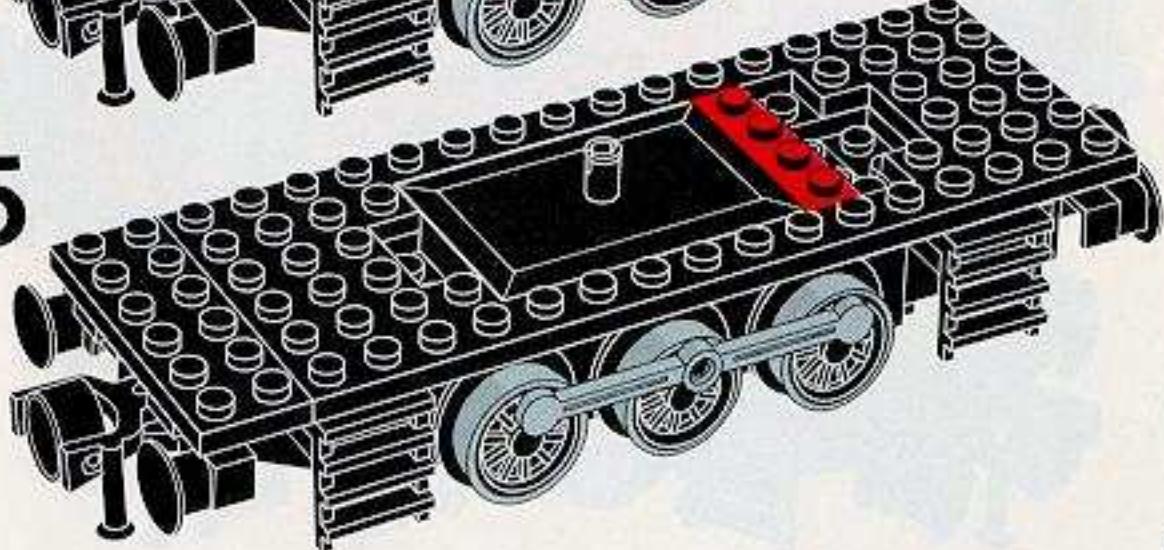
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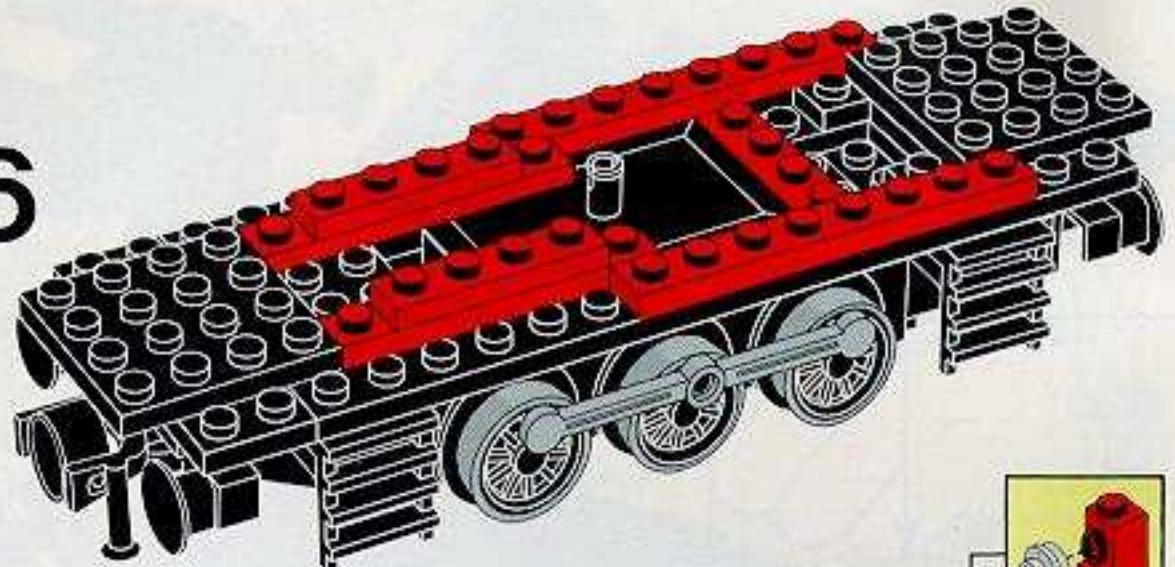
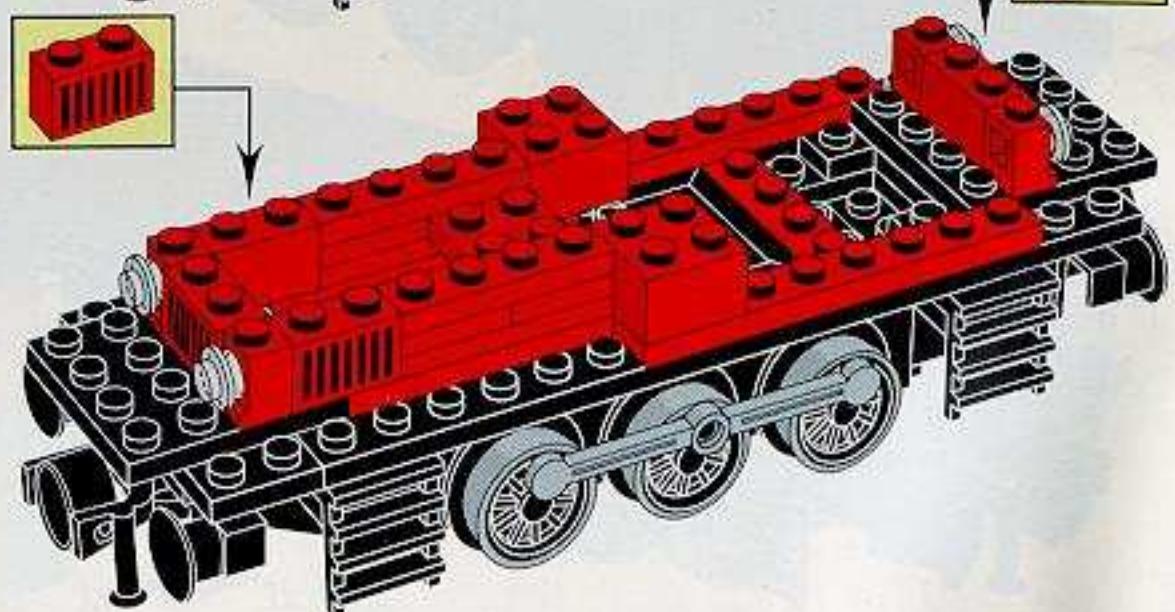
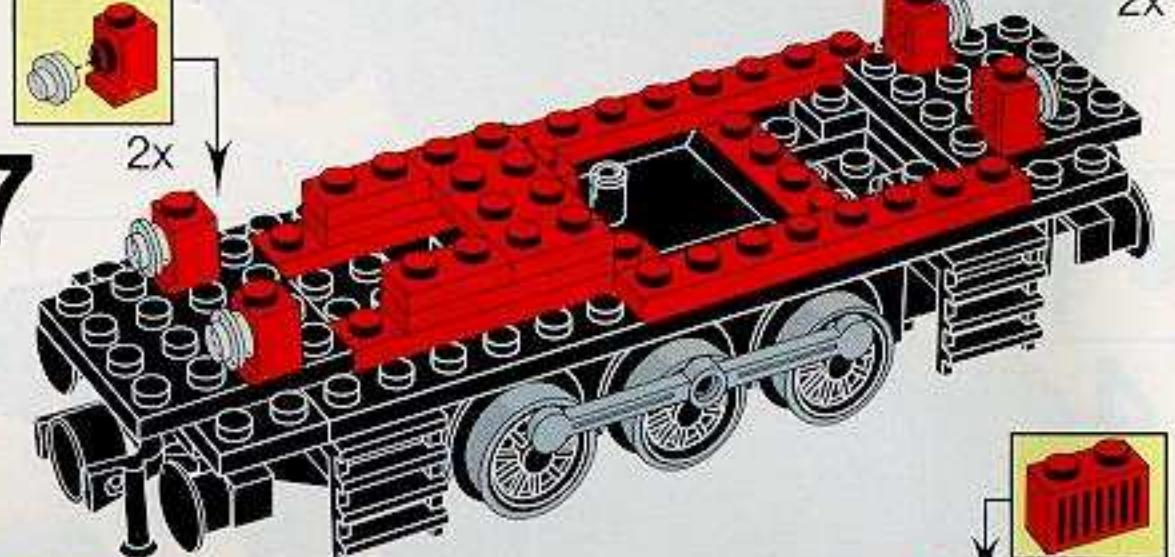
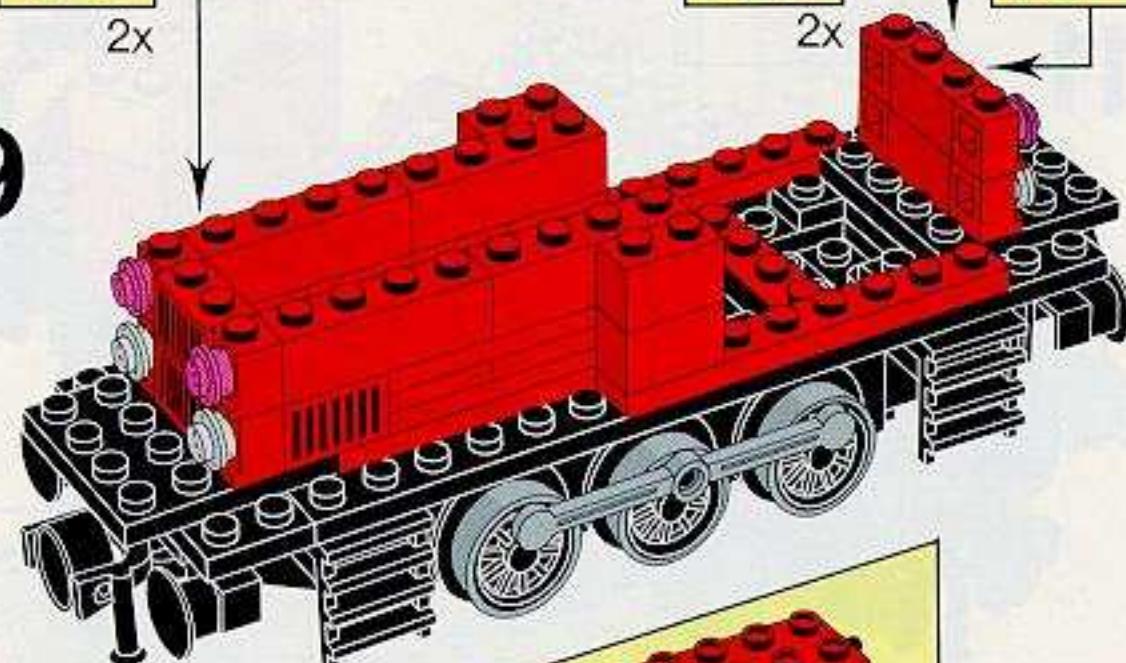
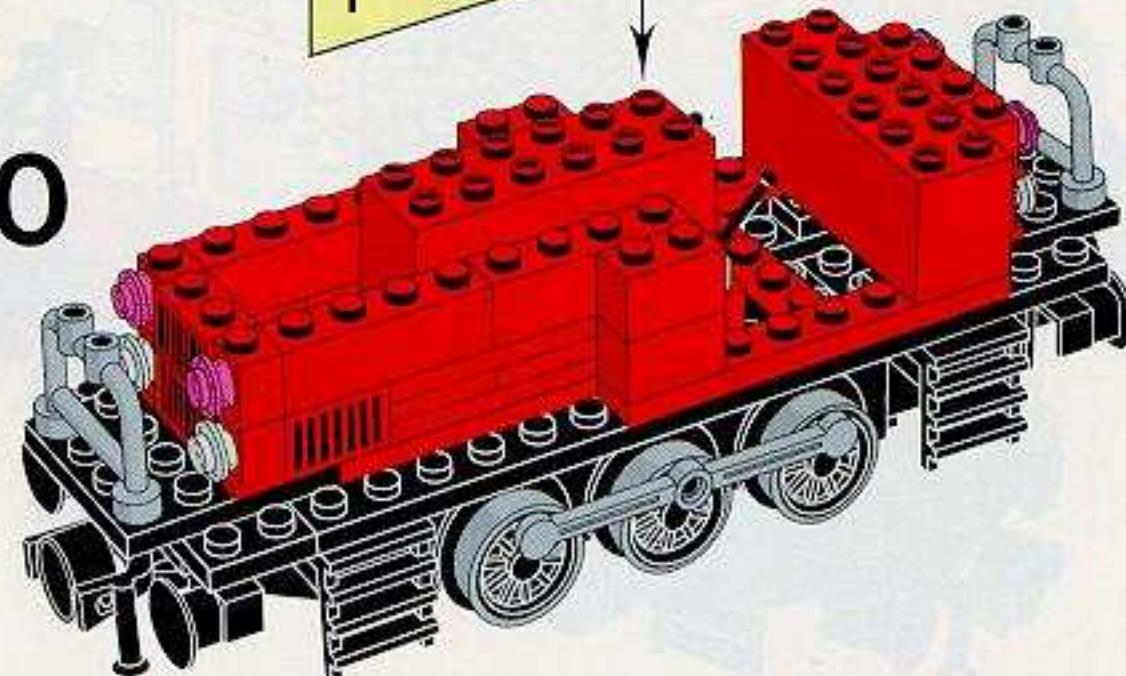


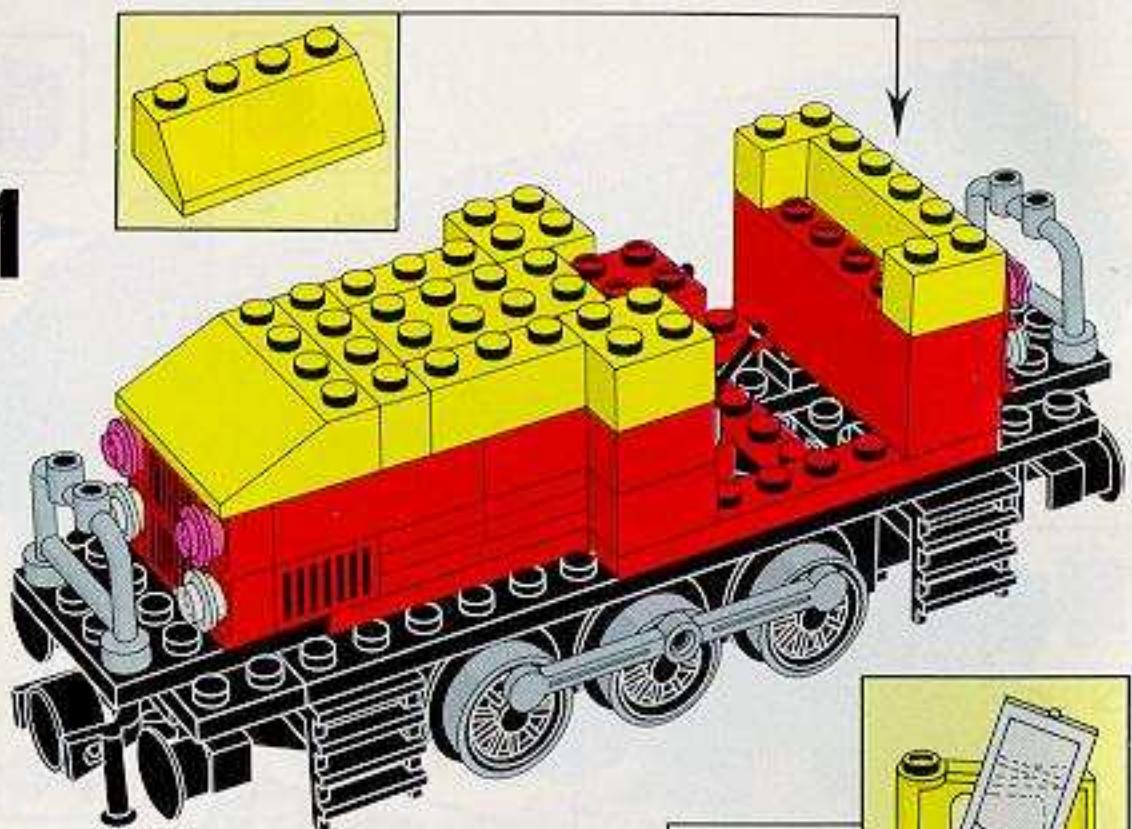
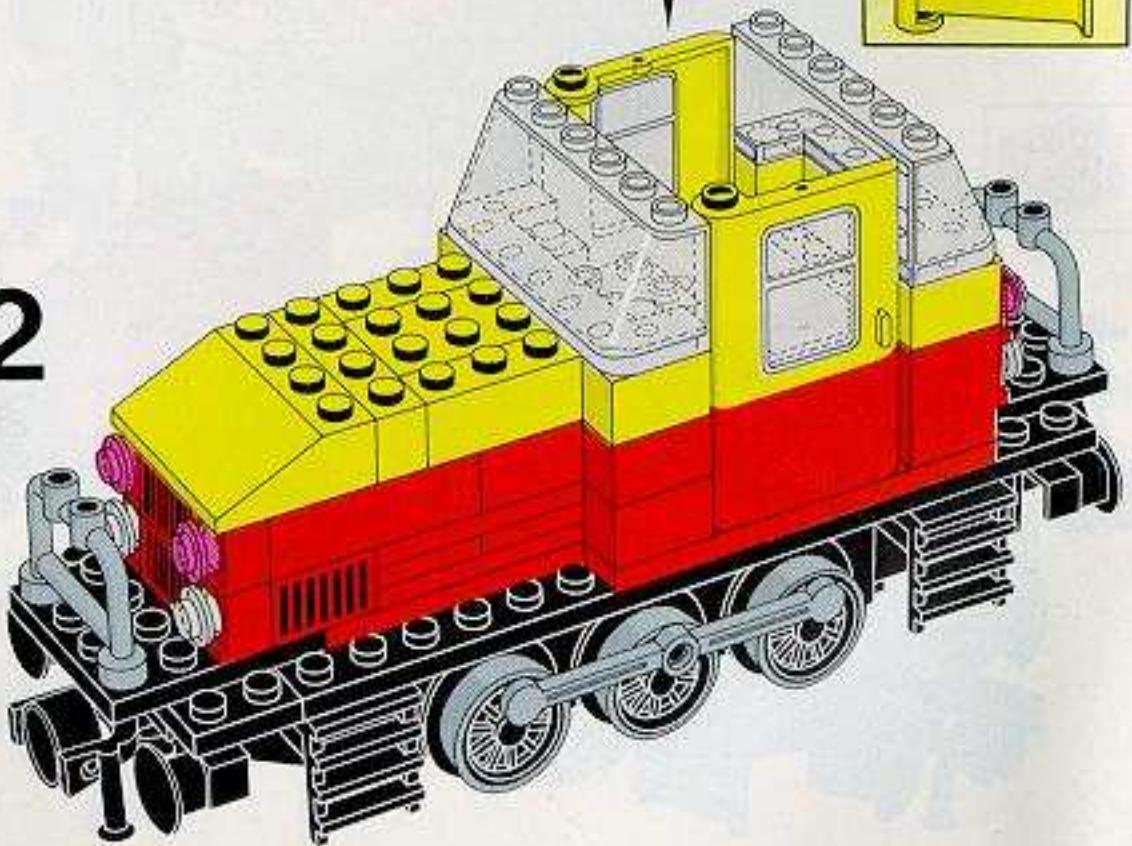
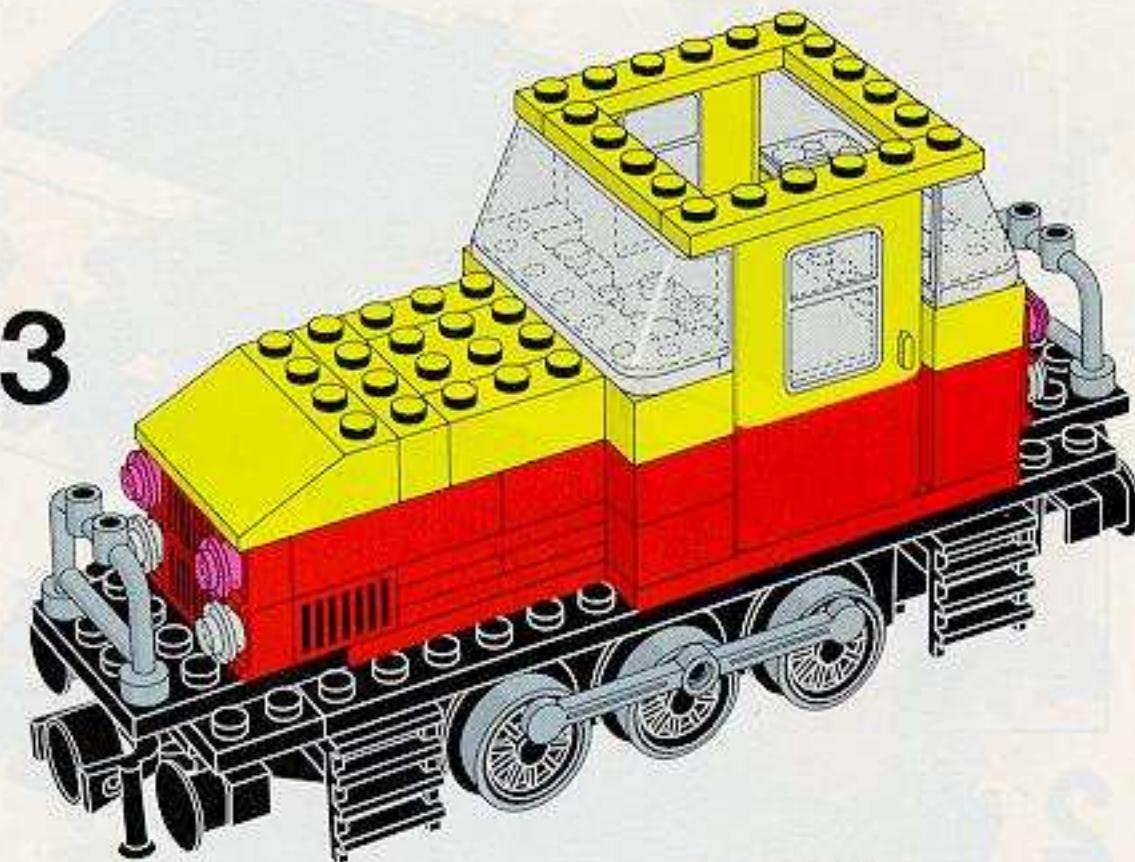
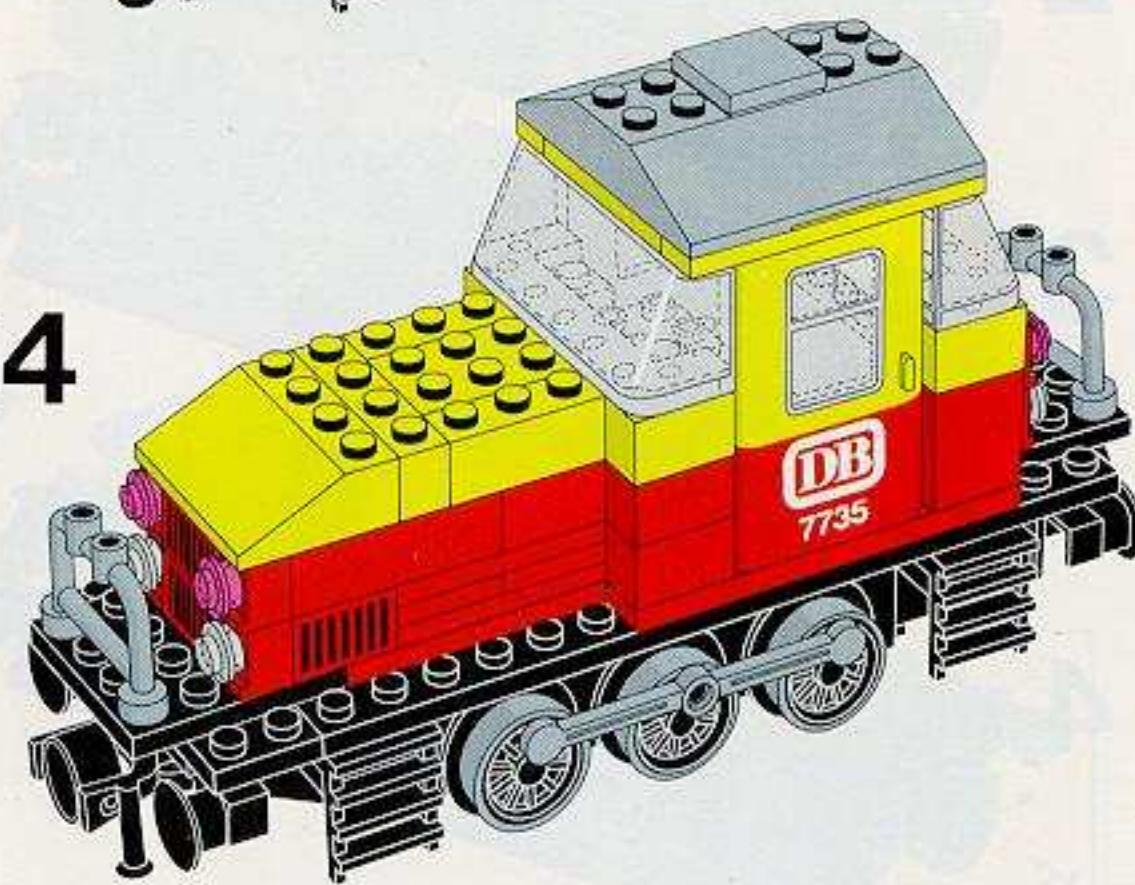
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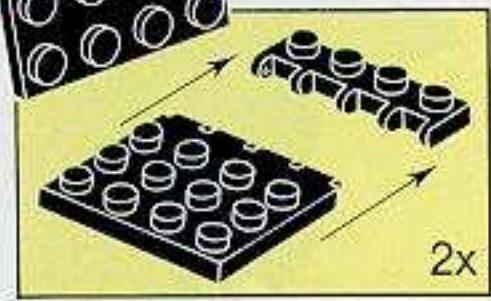
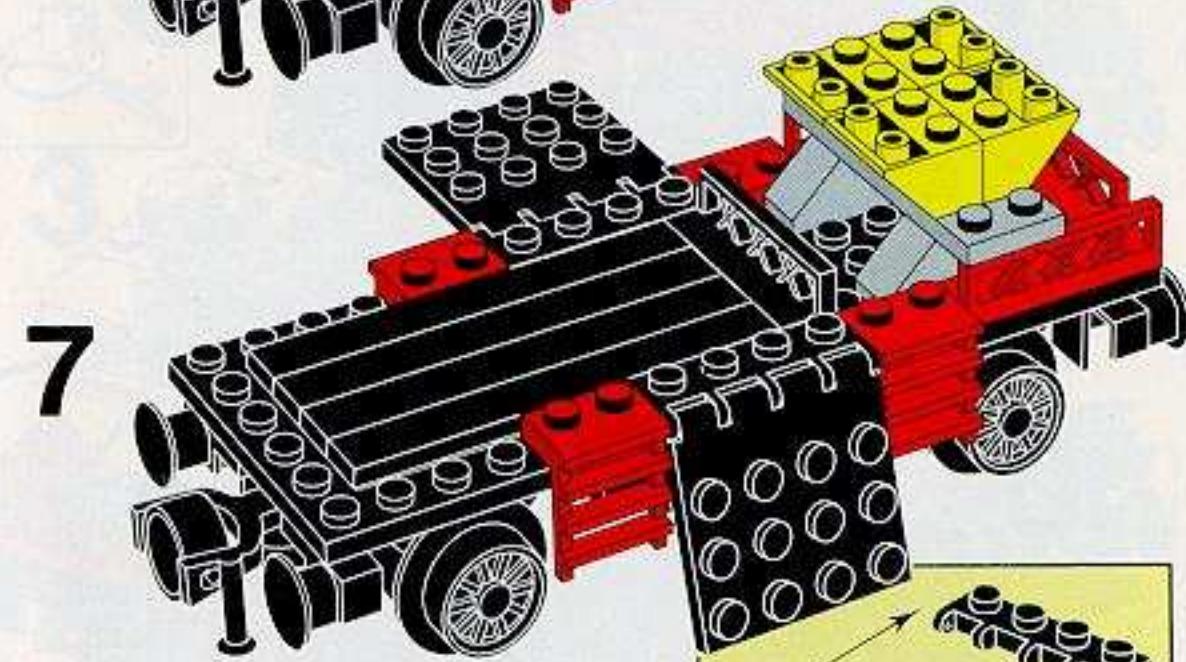
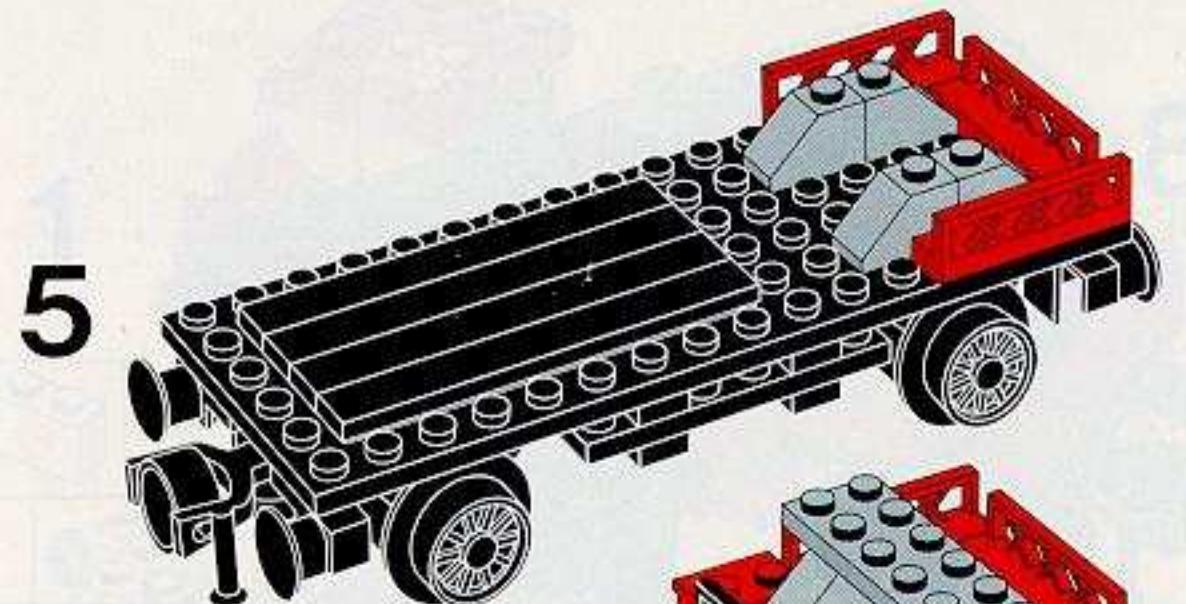
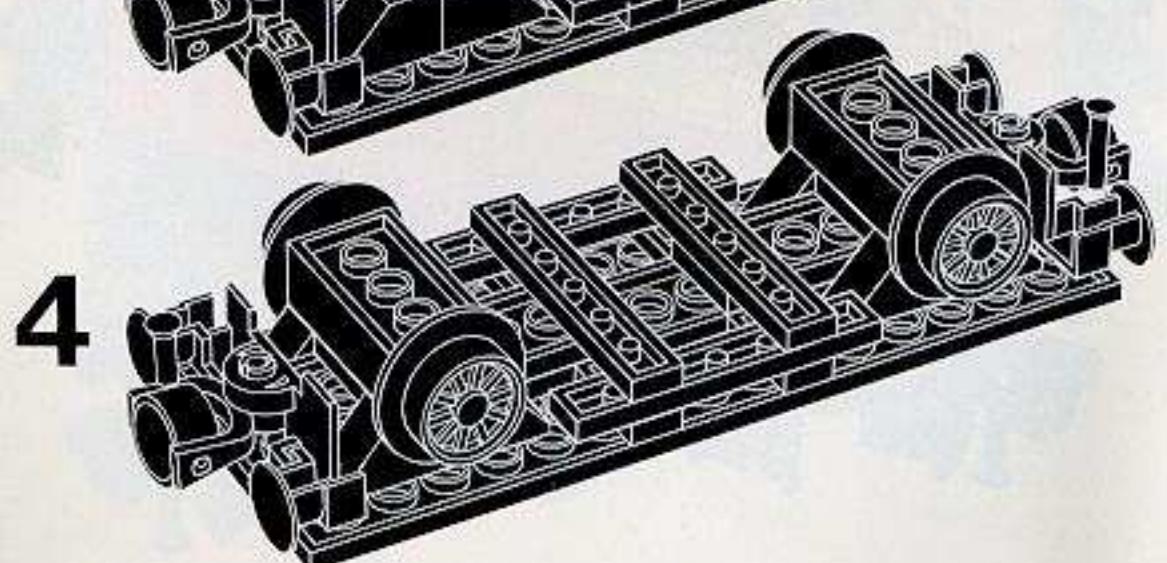
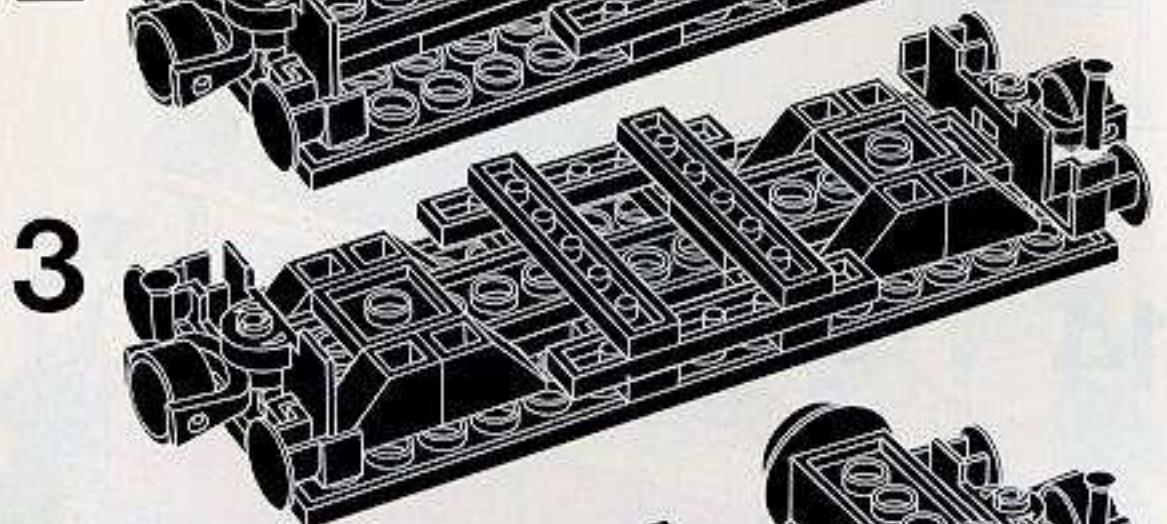
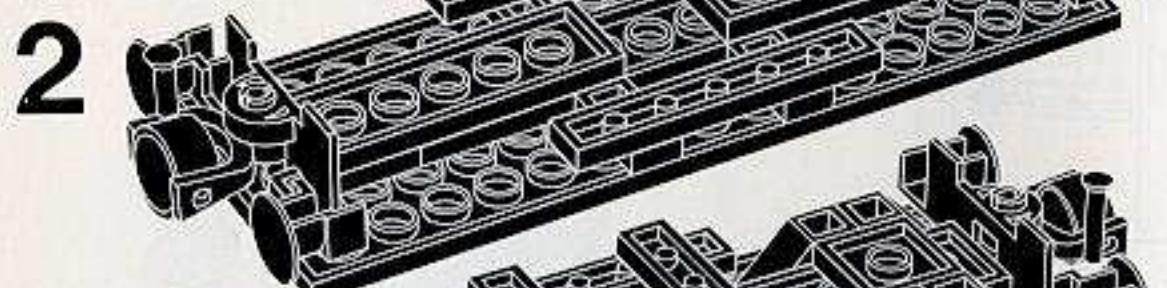
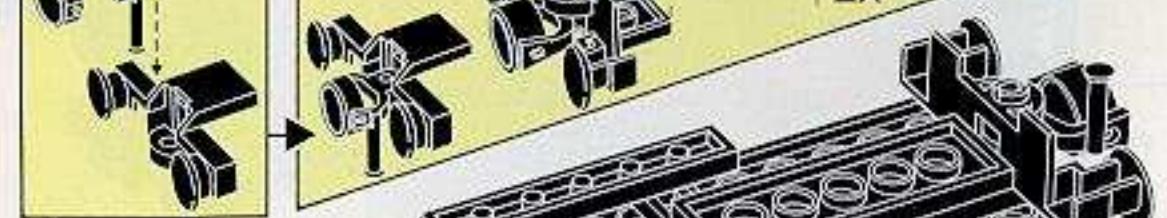
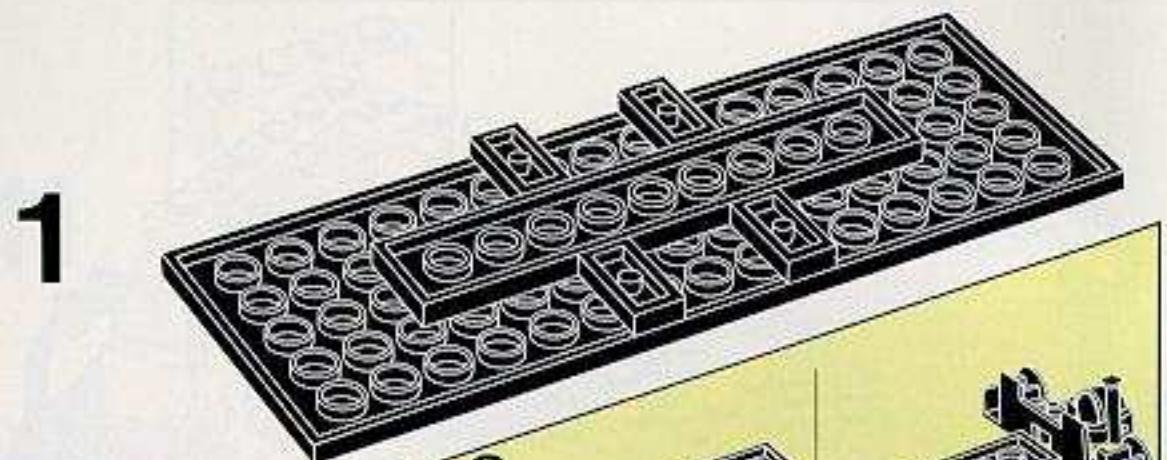


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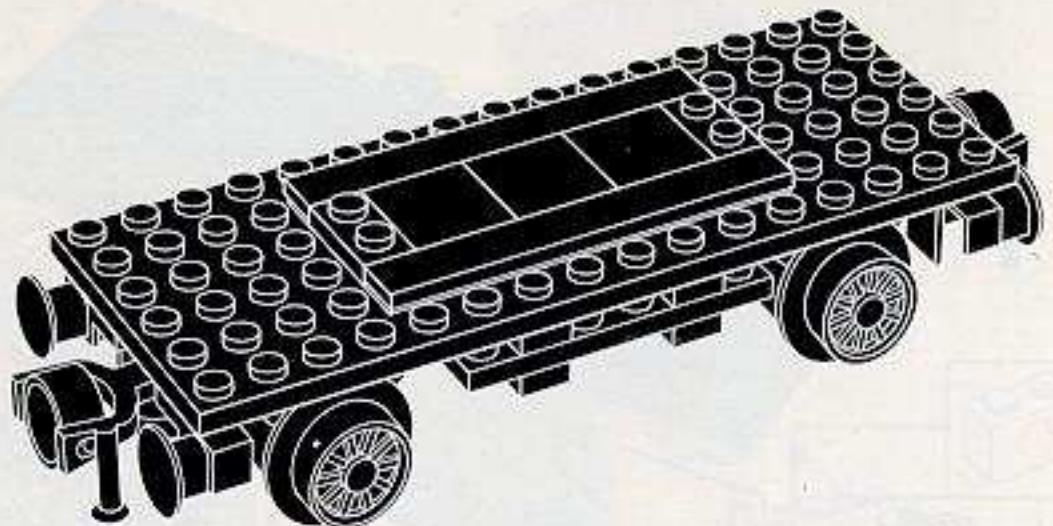


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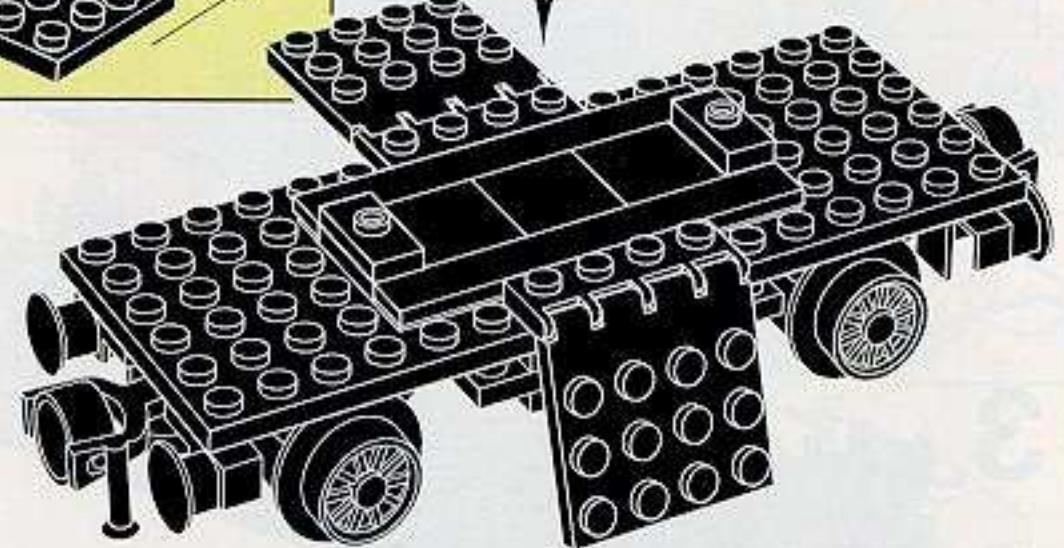


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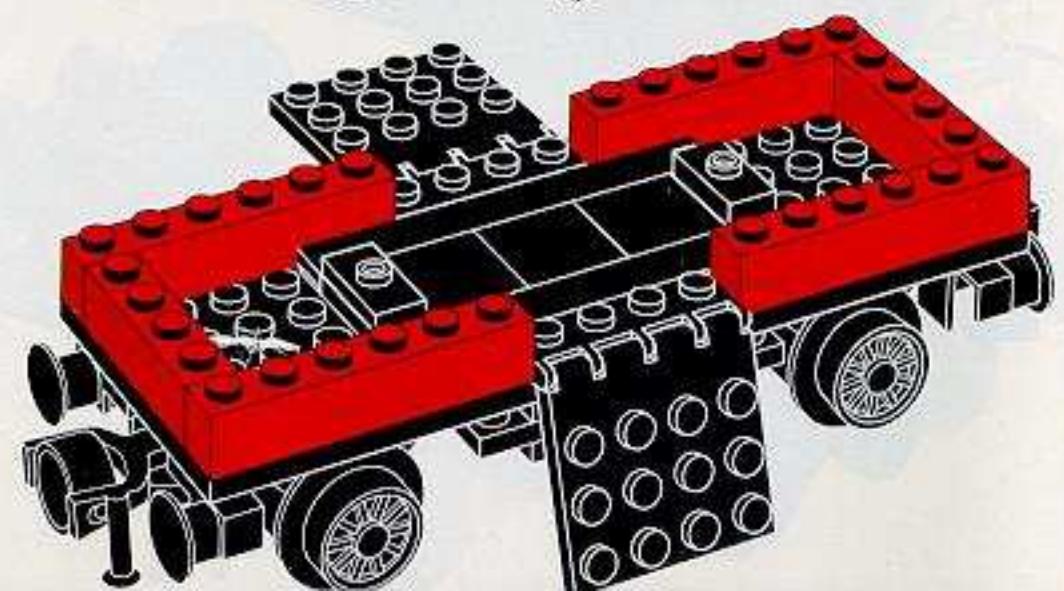


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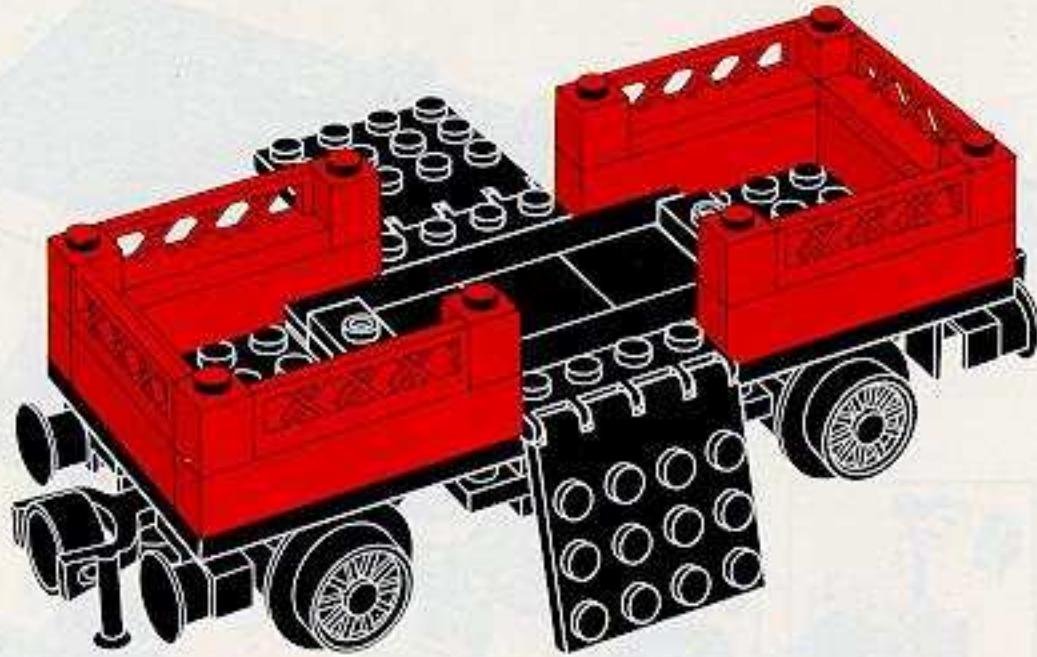
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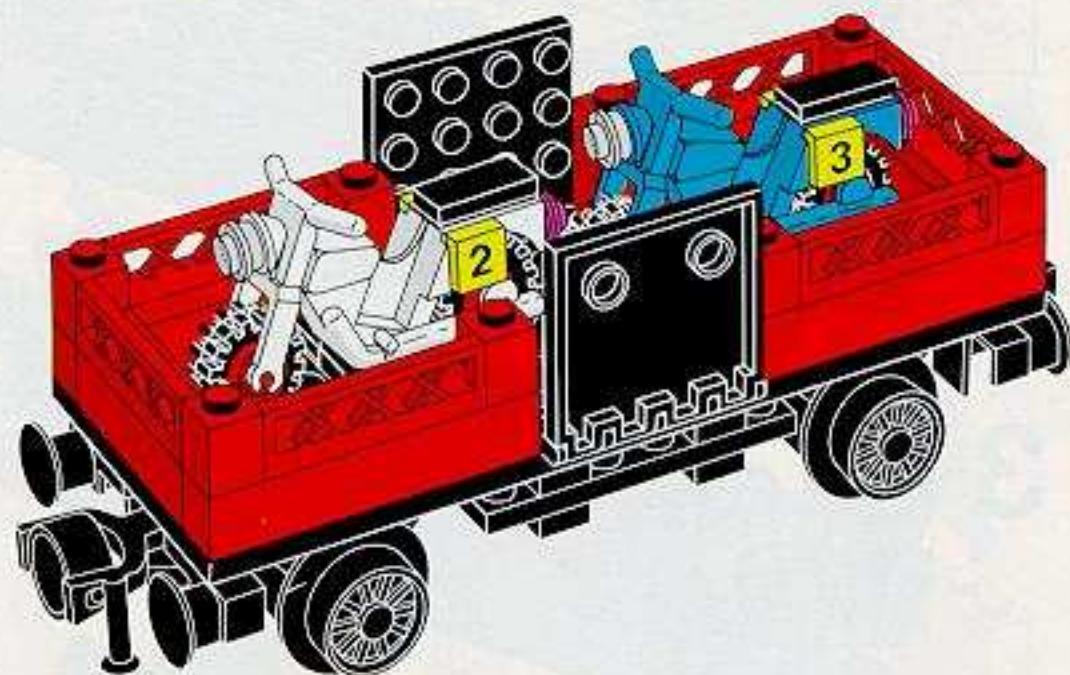
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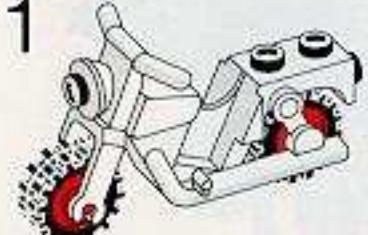
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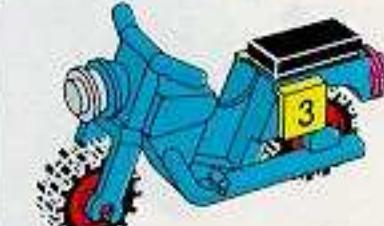
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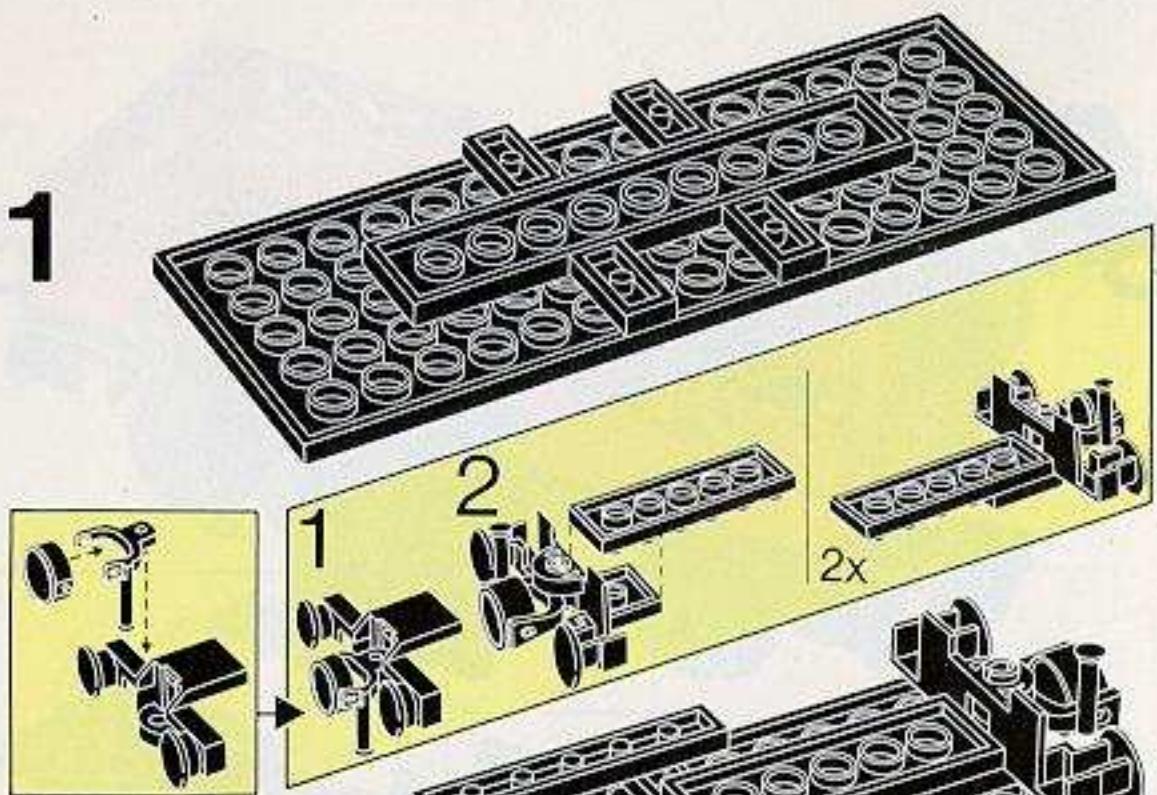
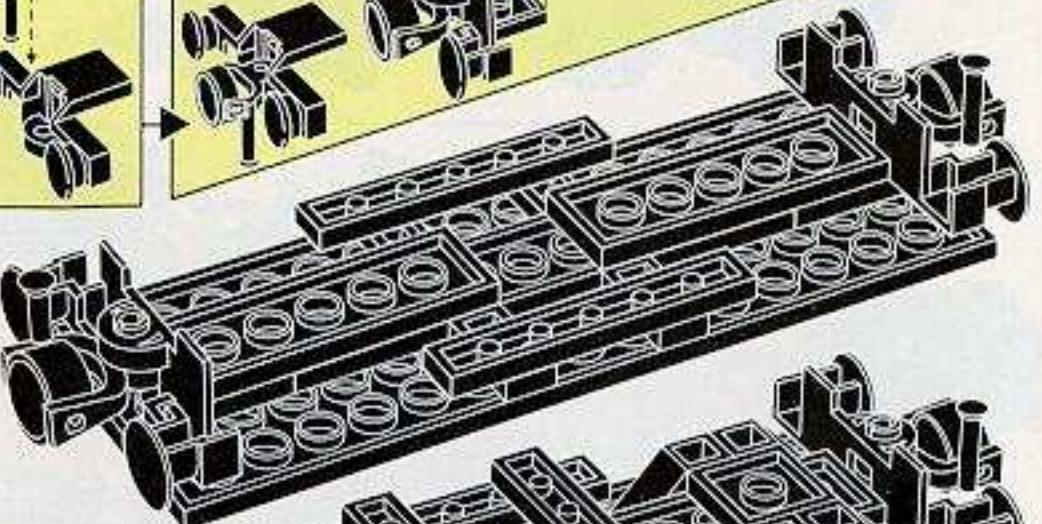
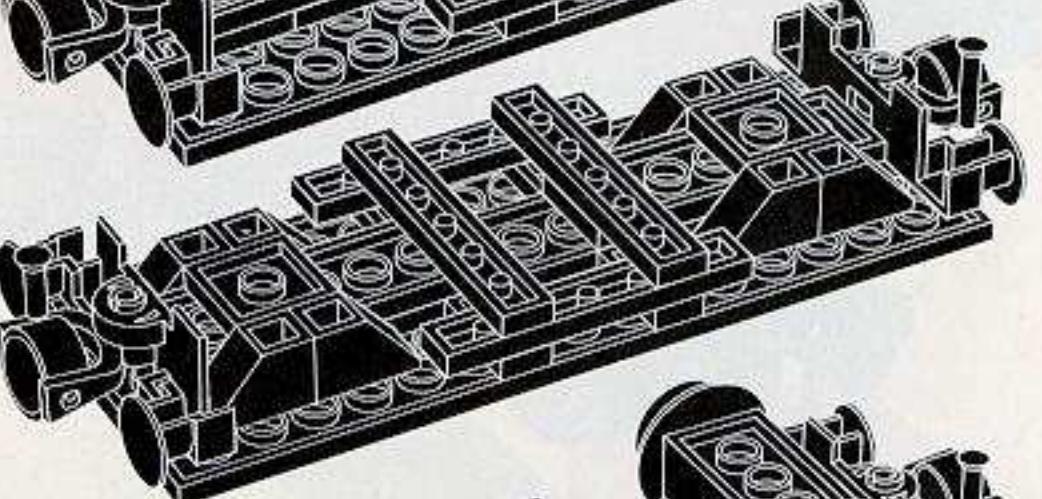
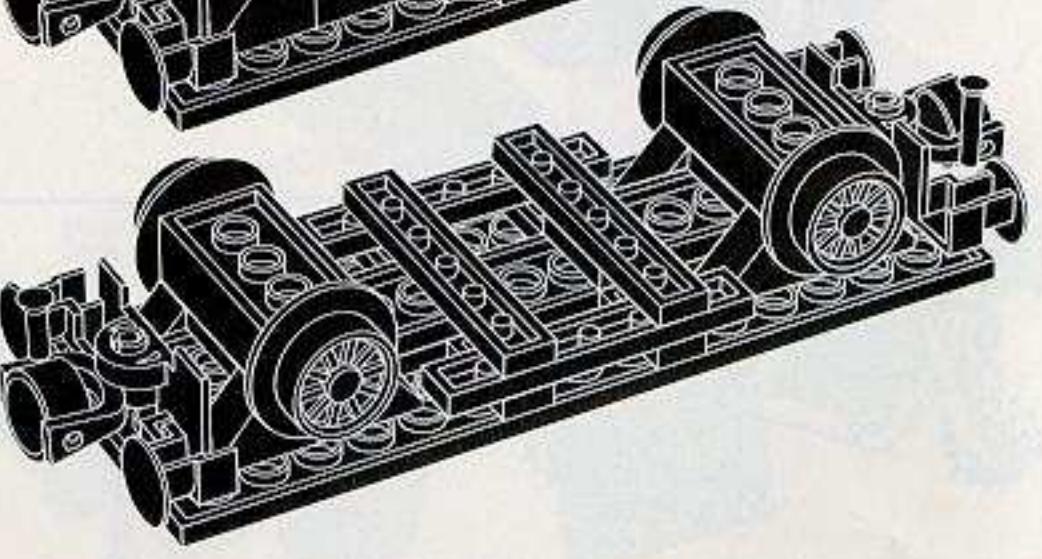
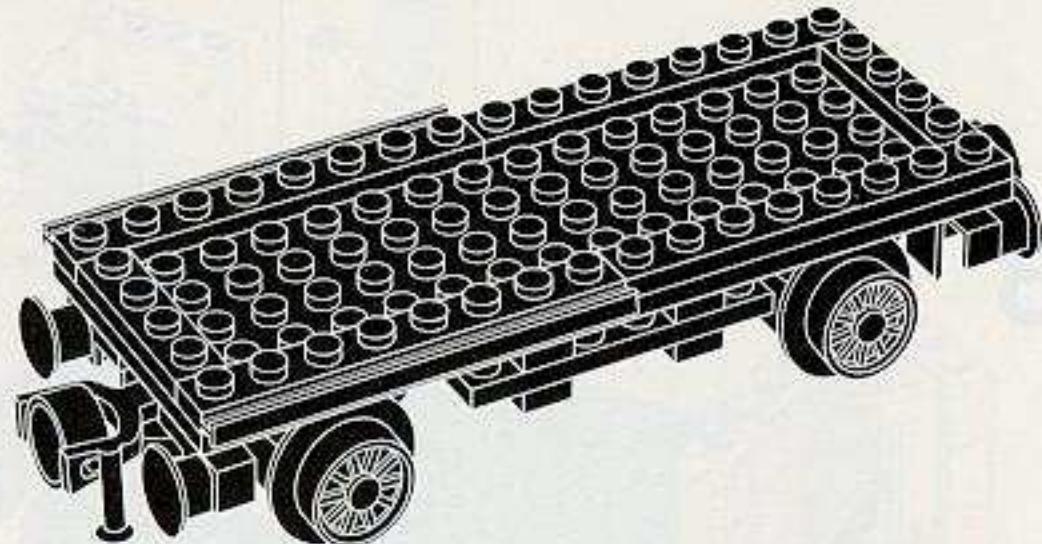
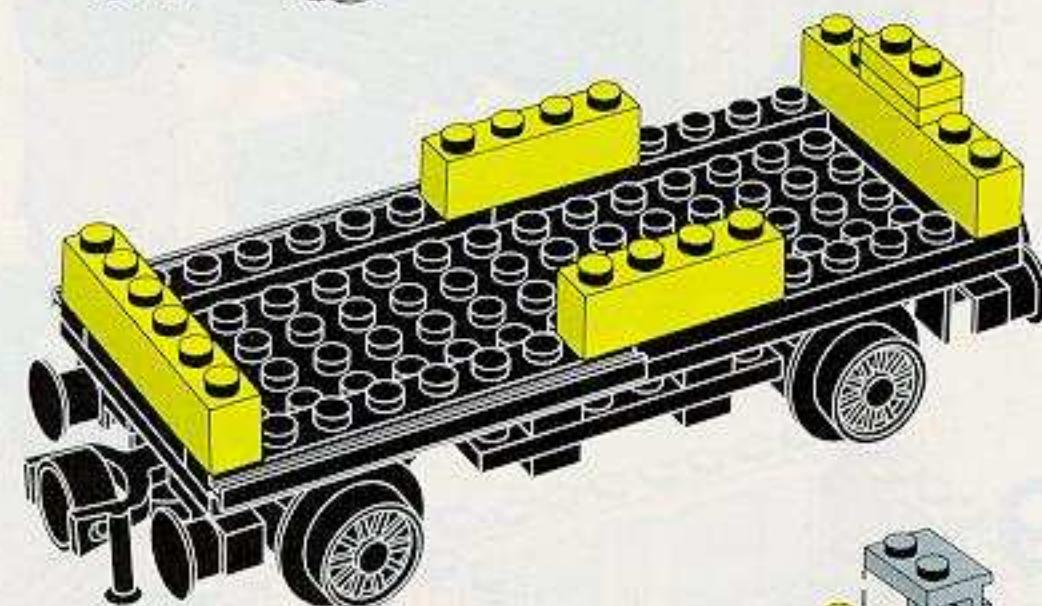
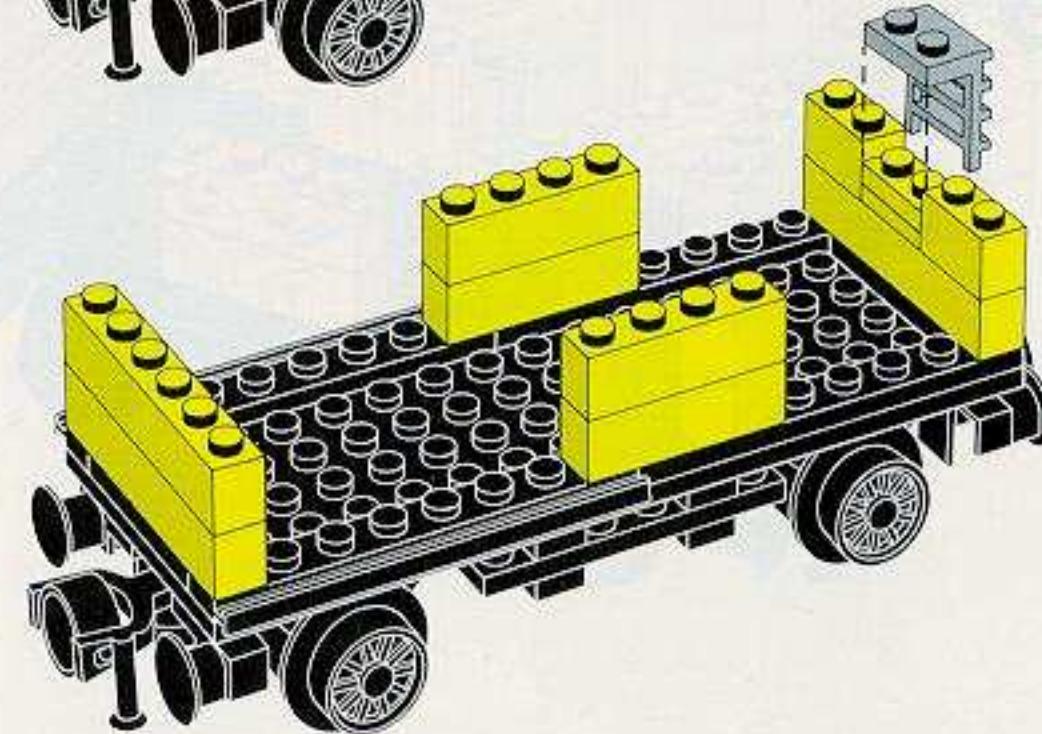


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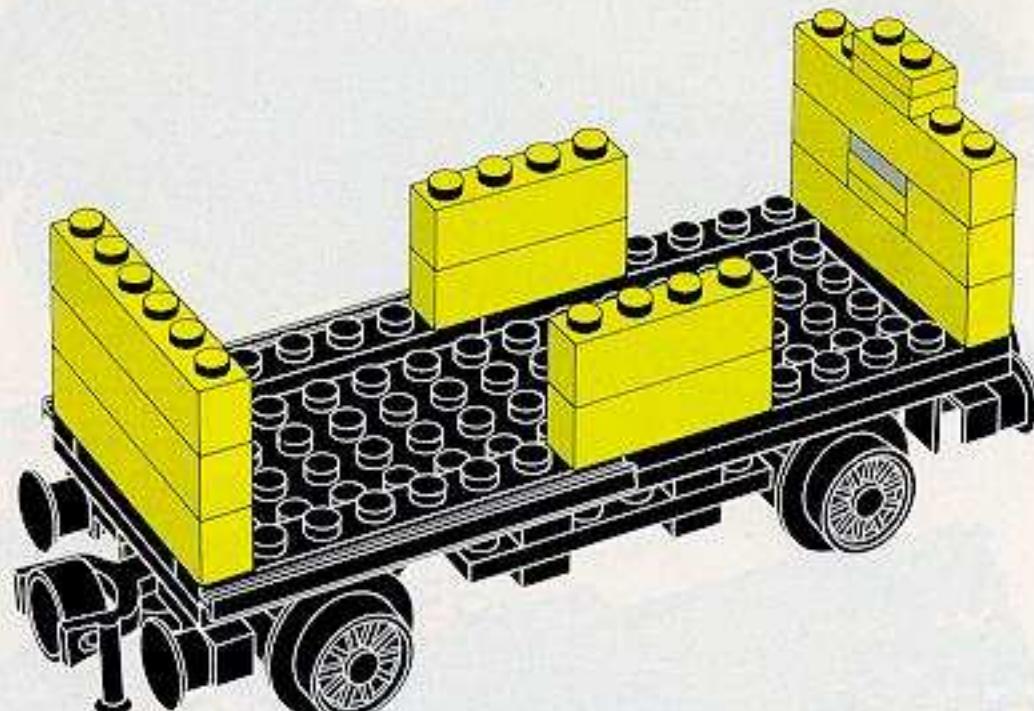


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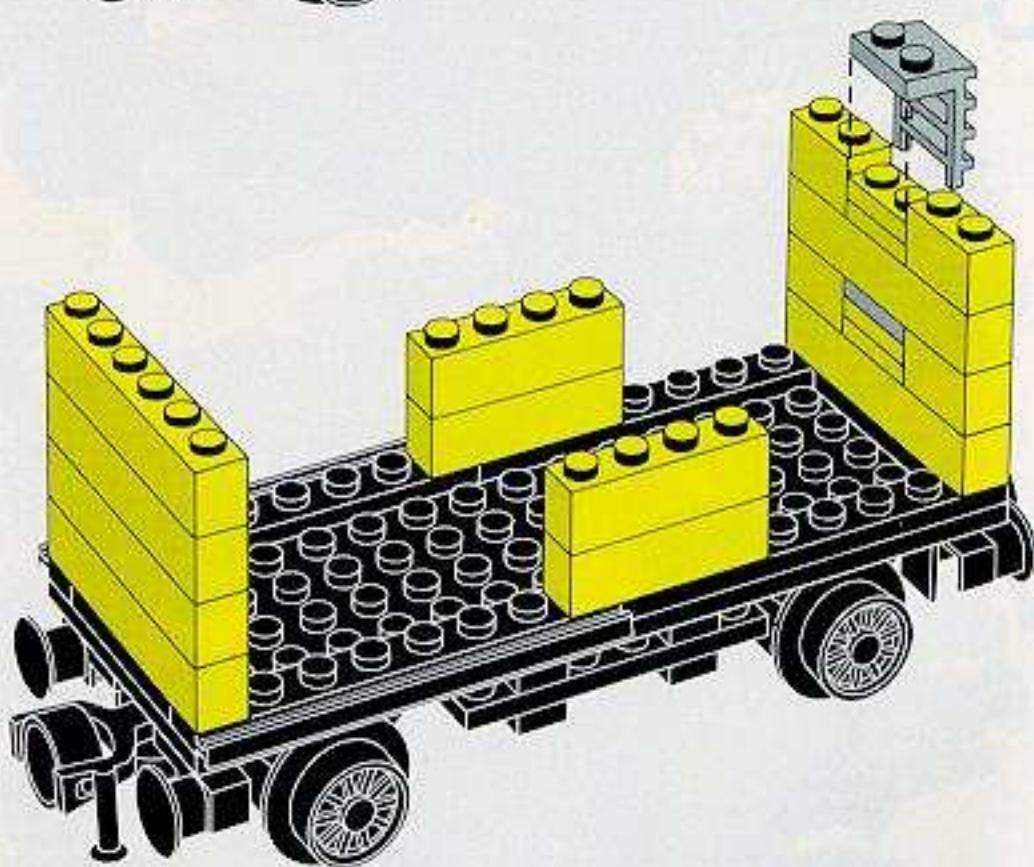


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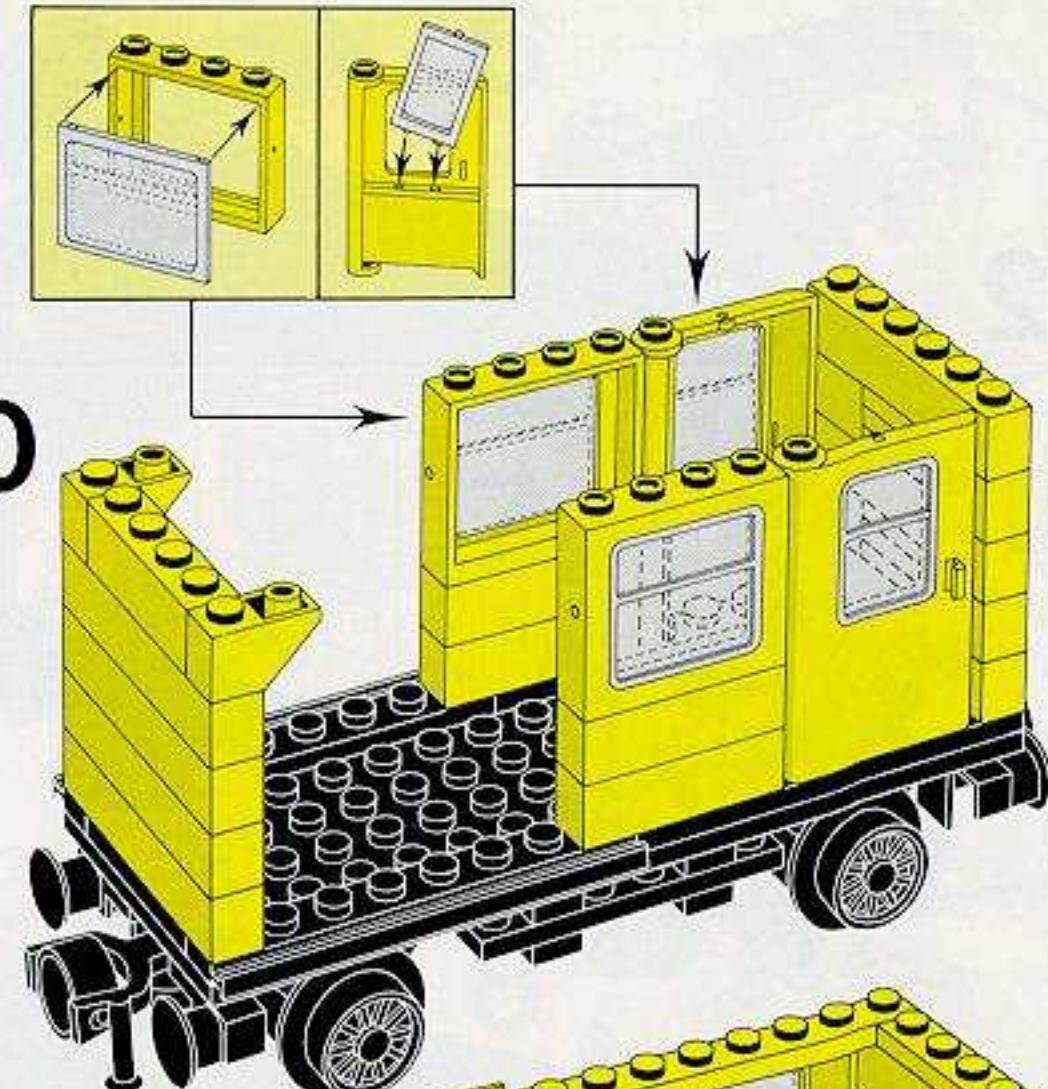
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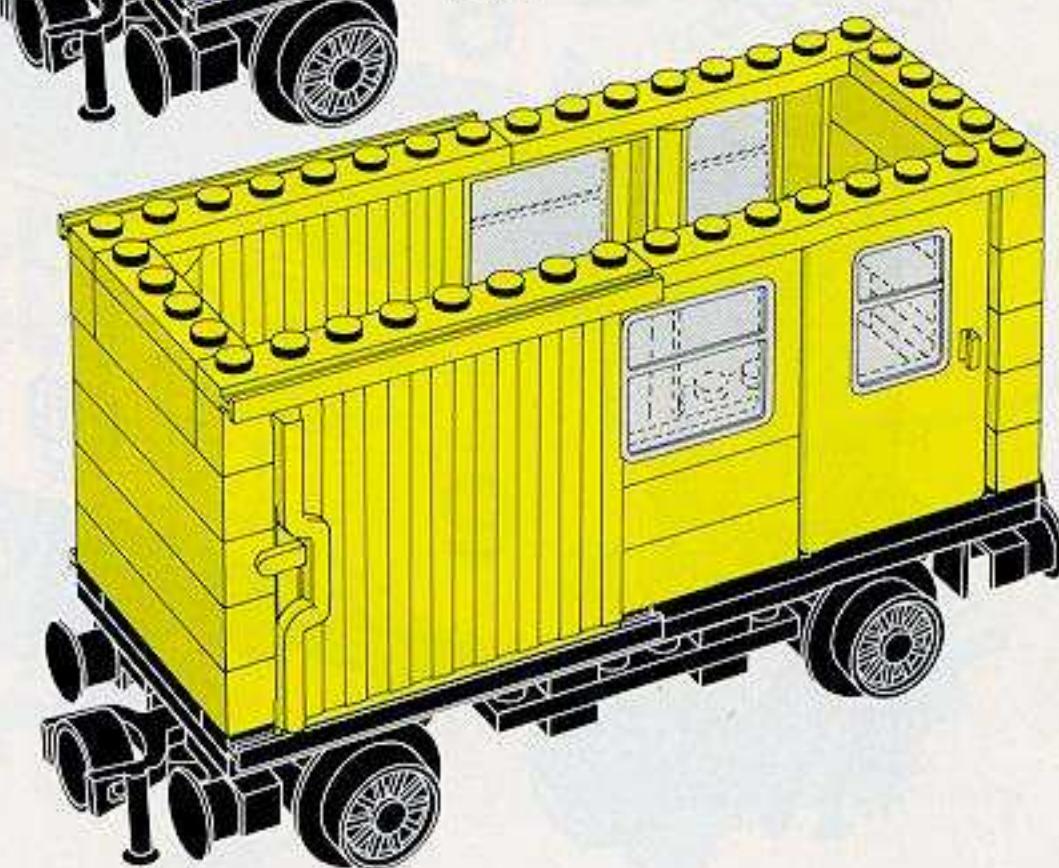
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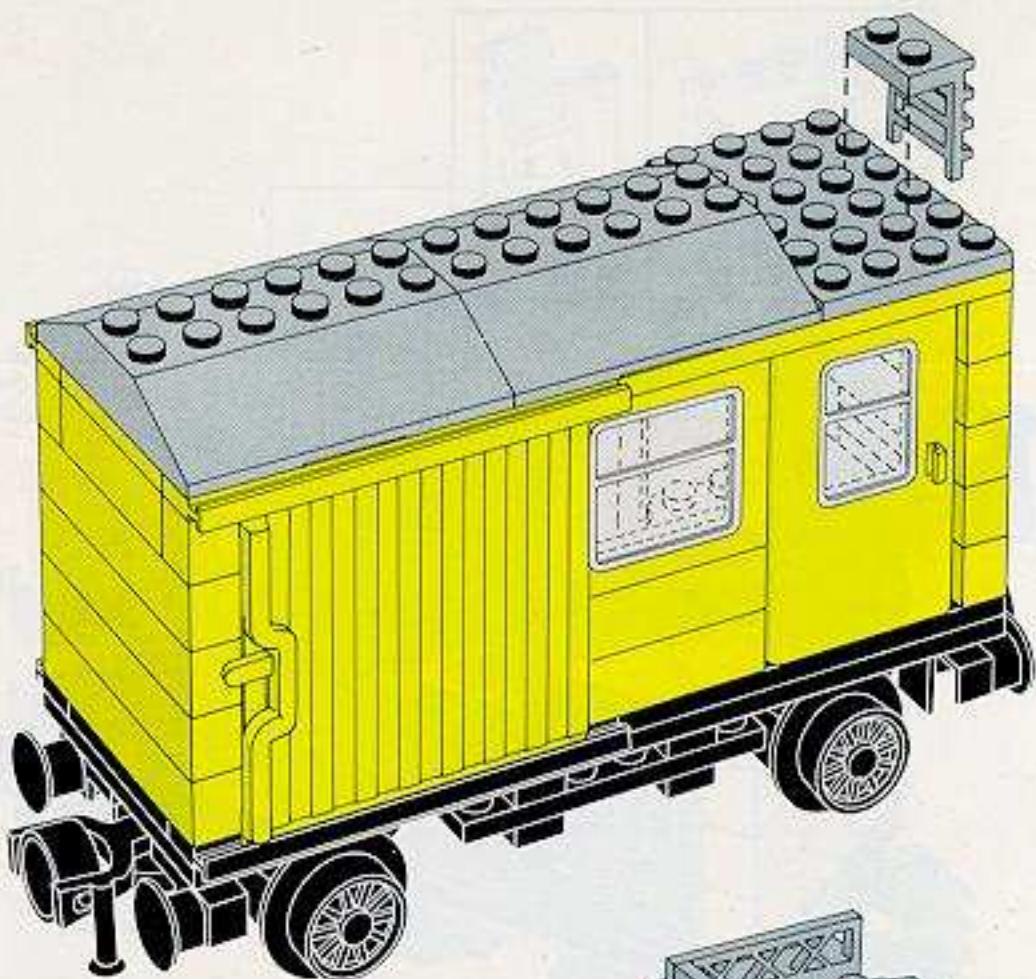
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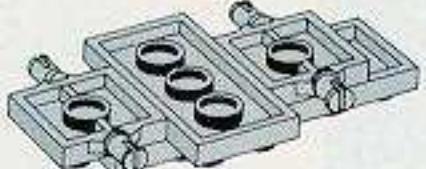
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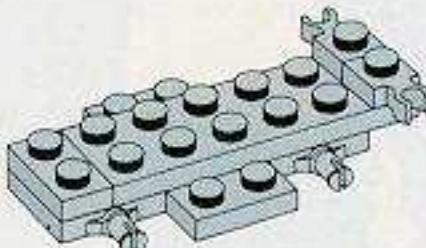
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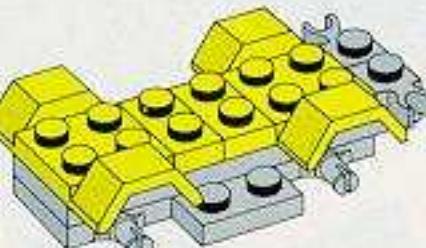
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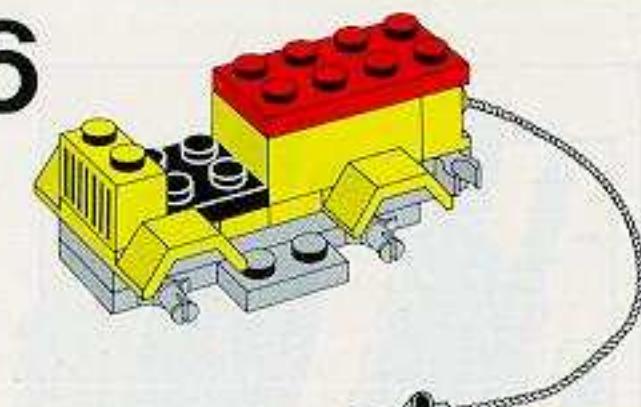
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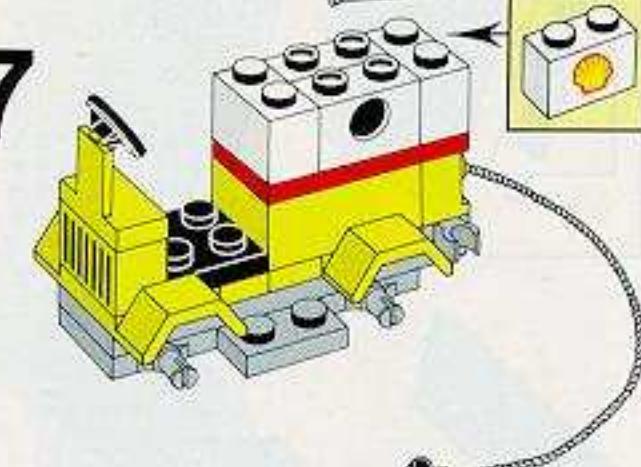
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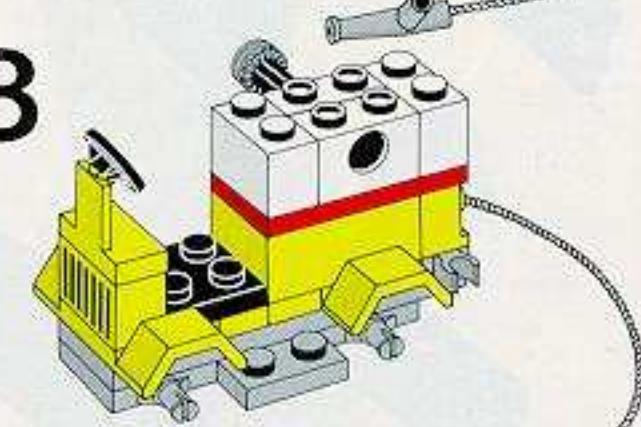
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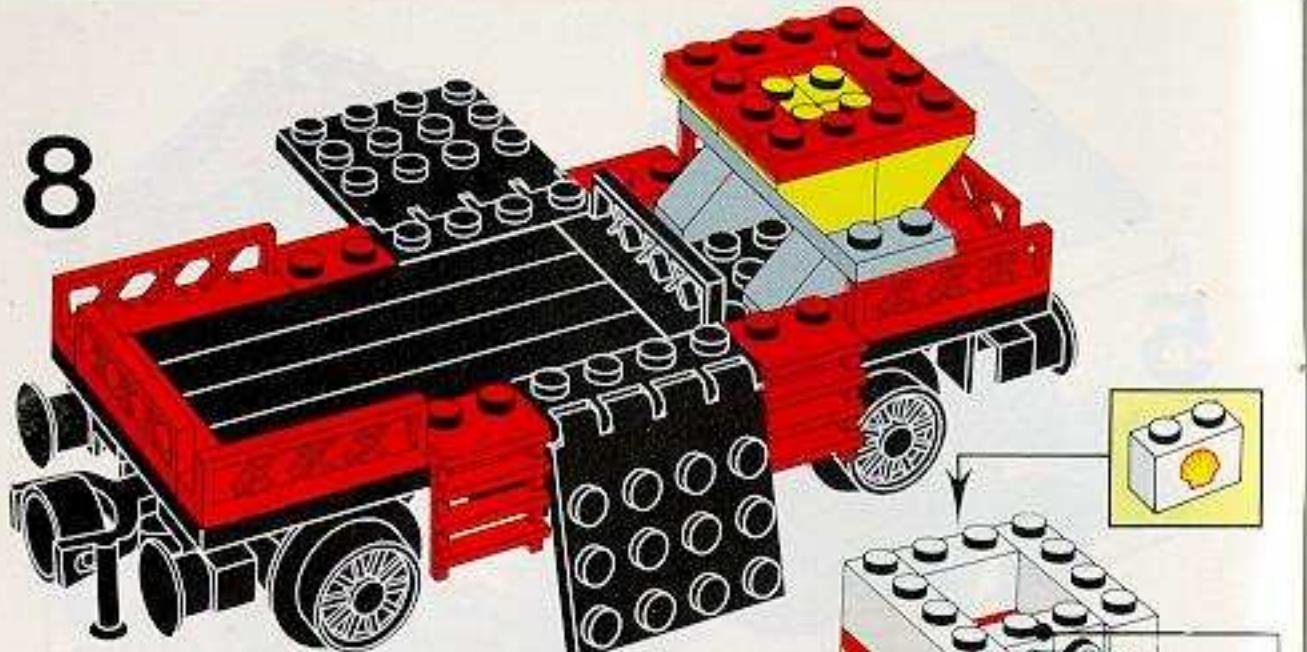
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**9**



8



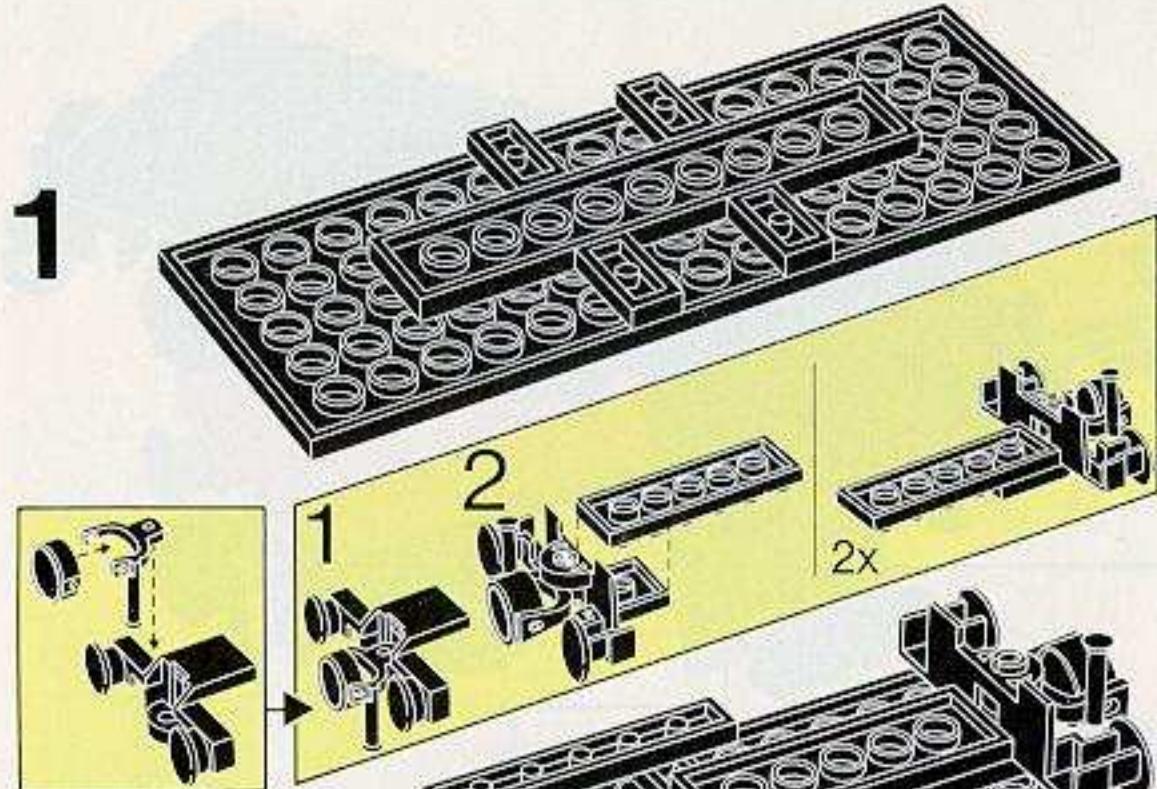
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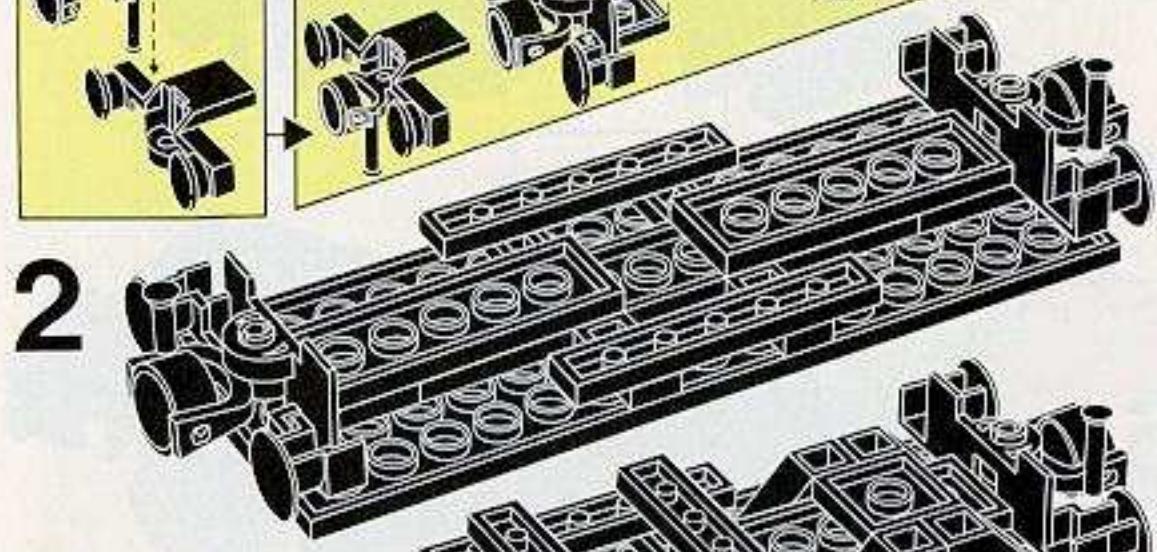
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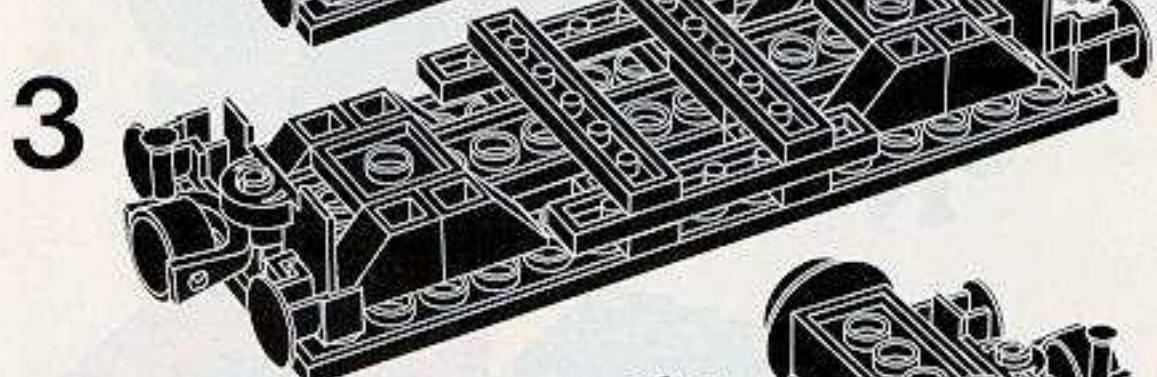
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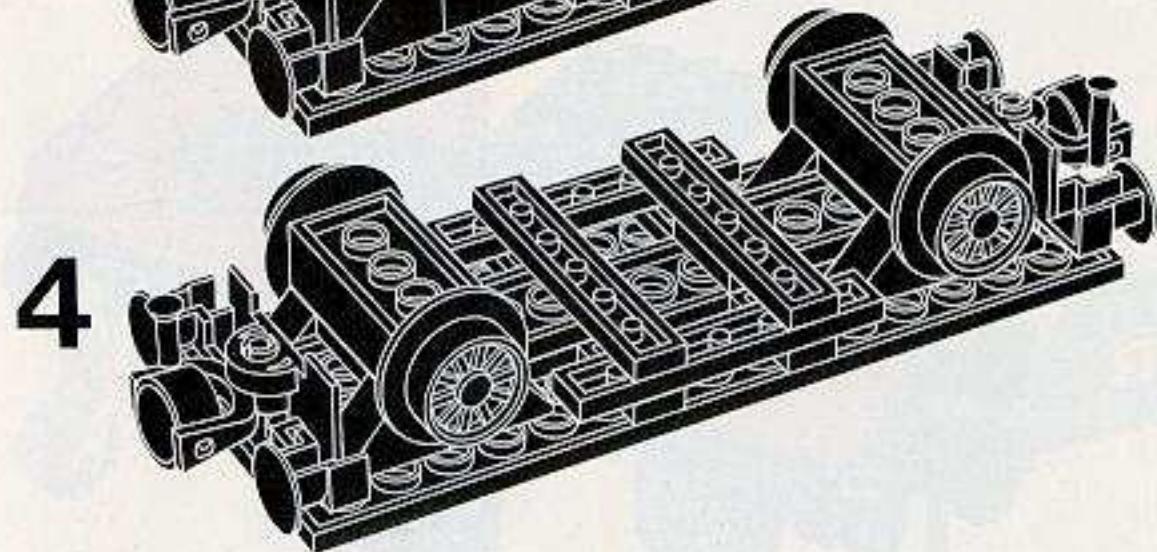
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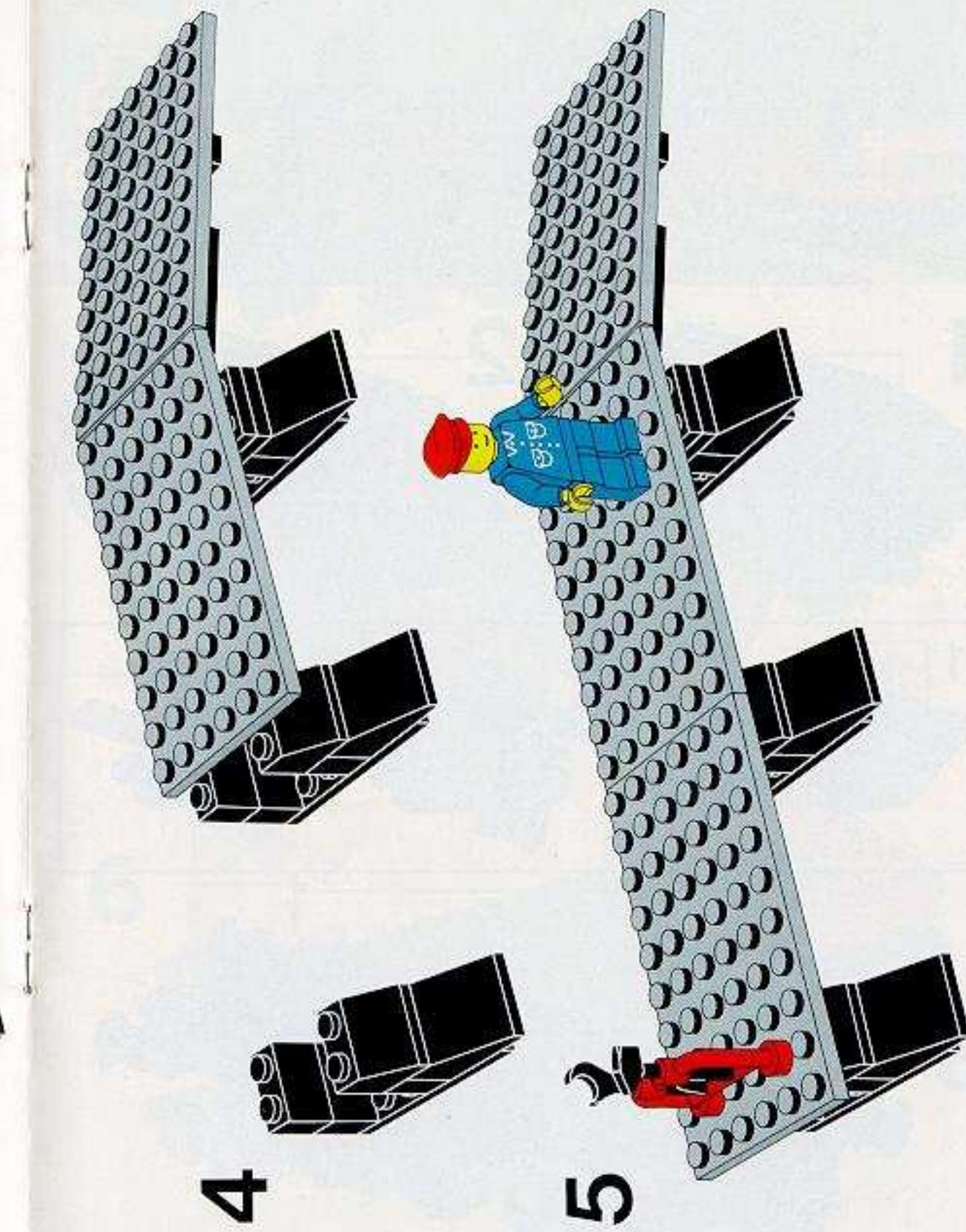
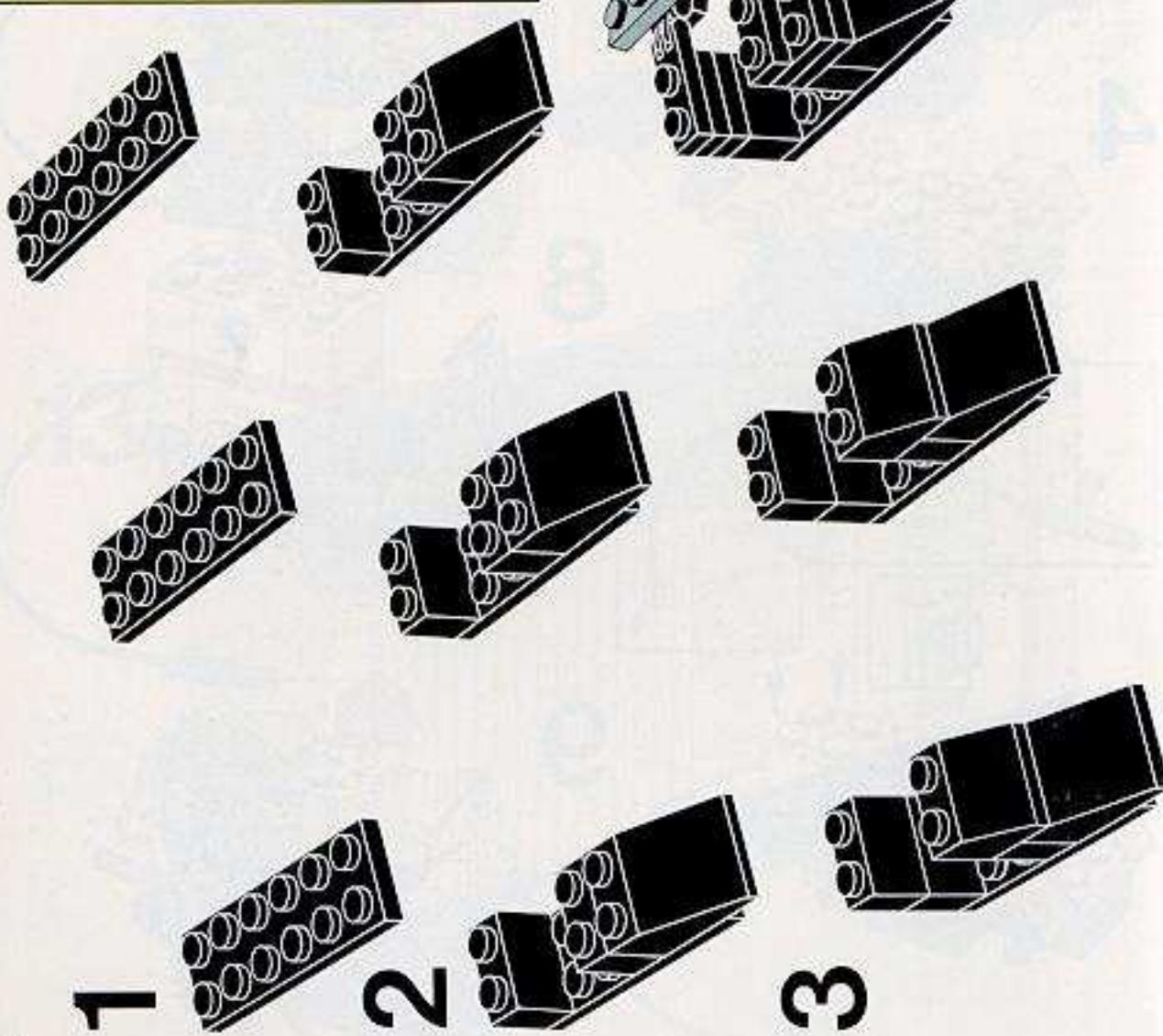
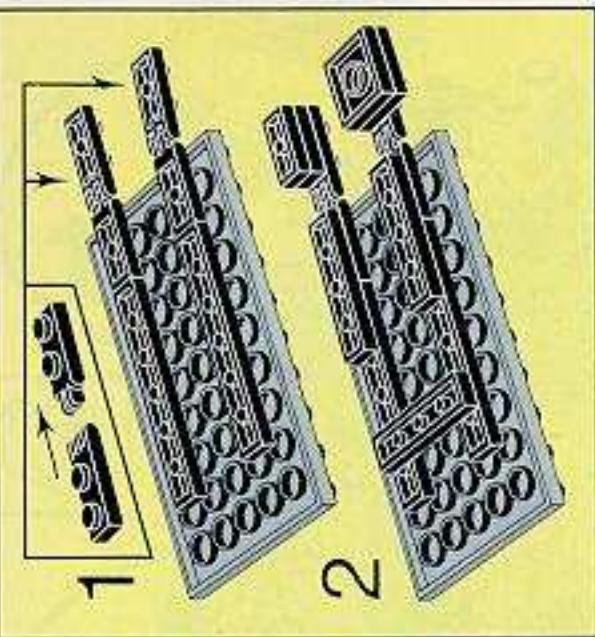


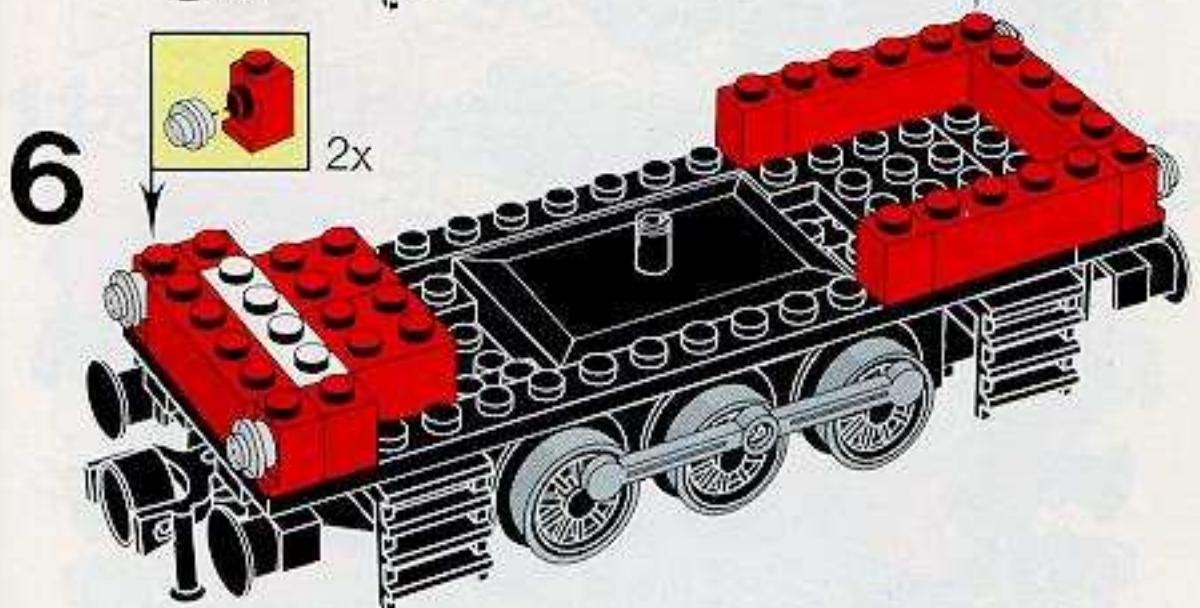
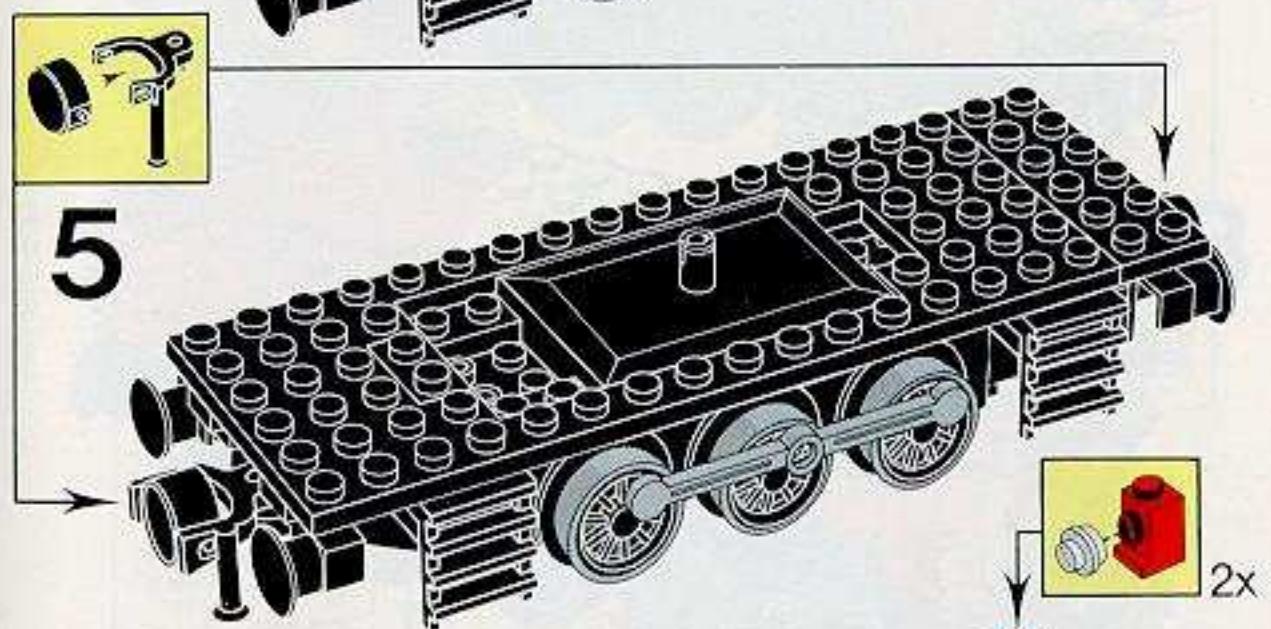
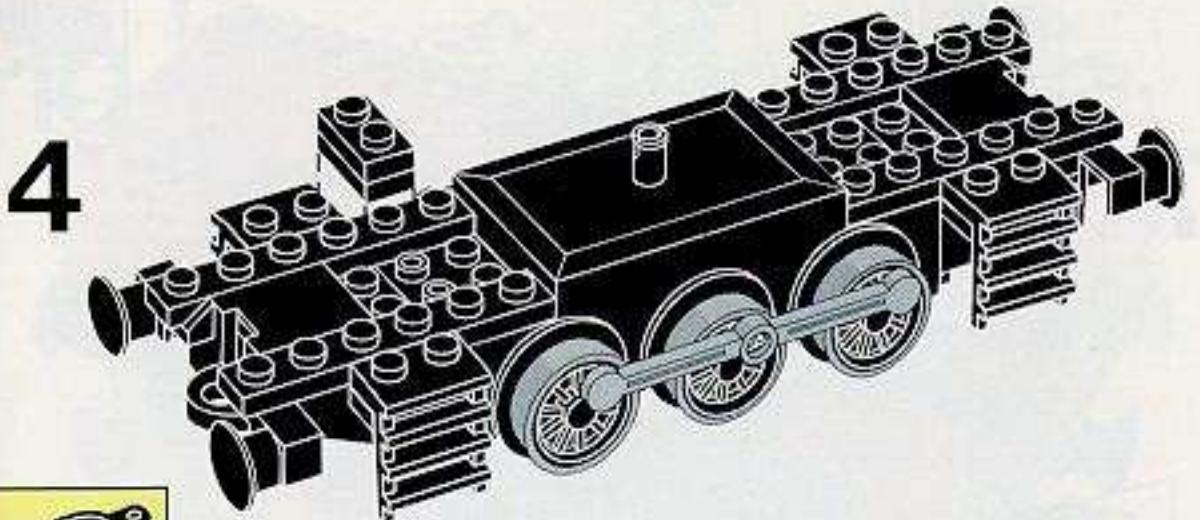
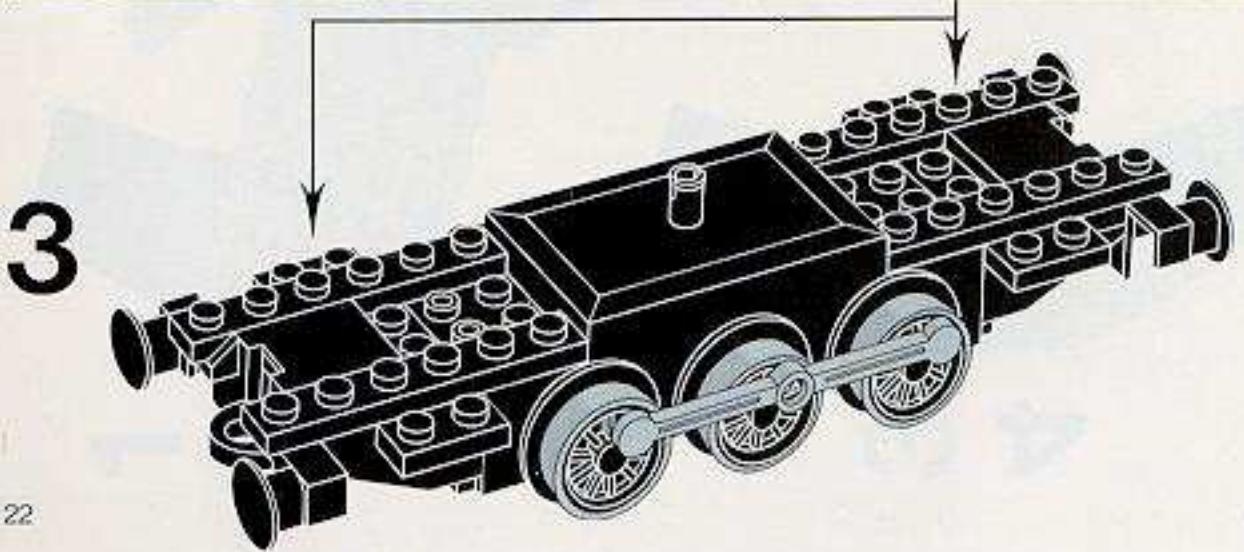
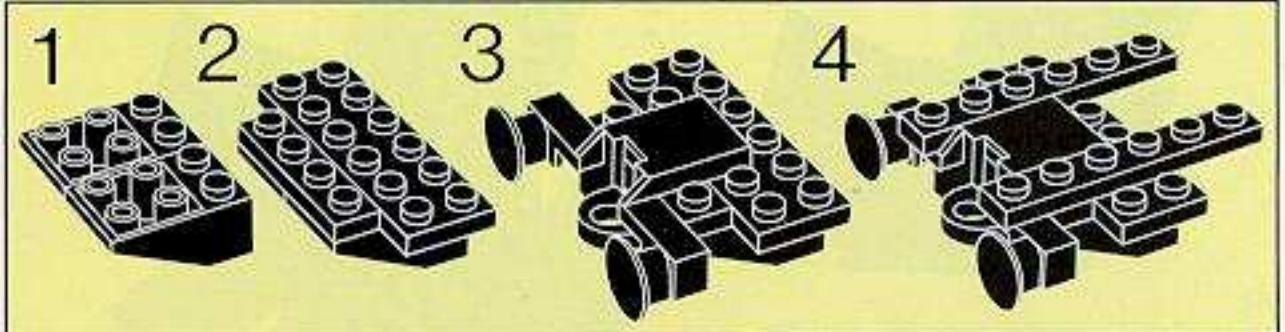
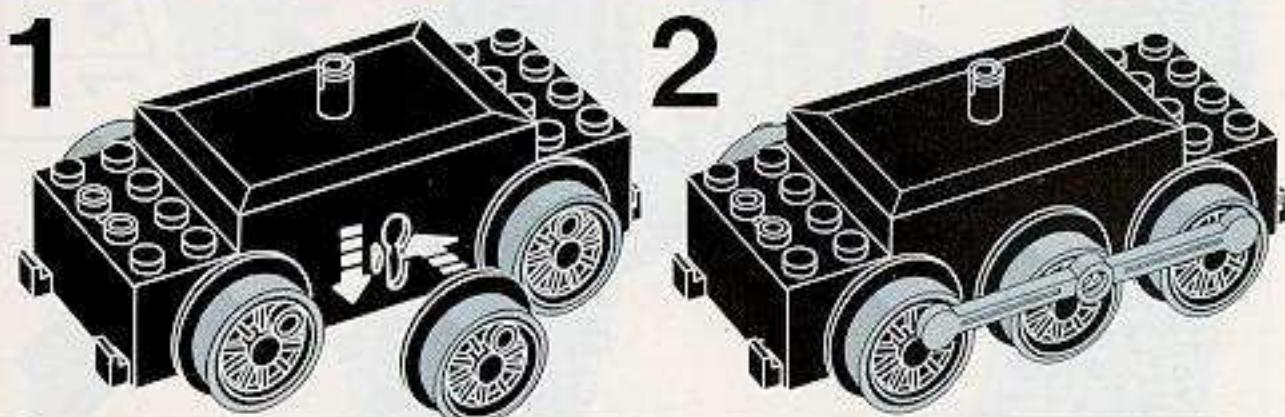
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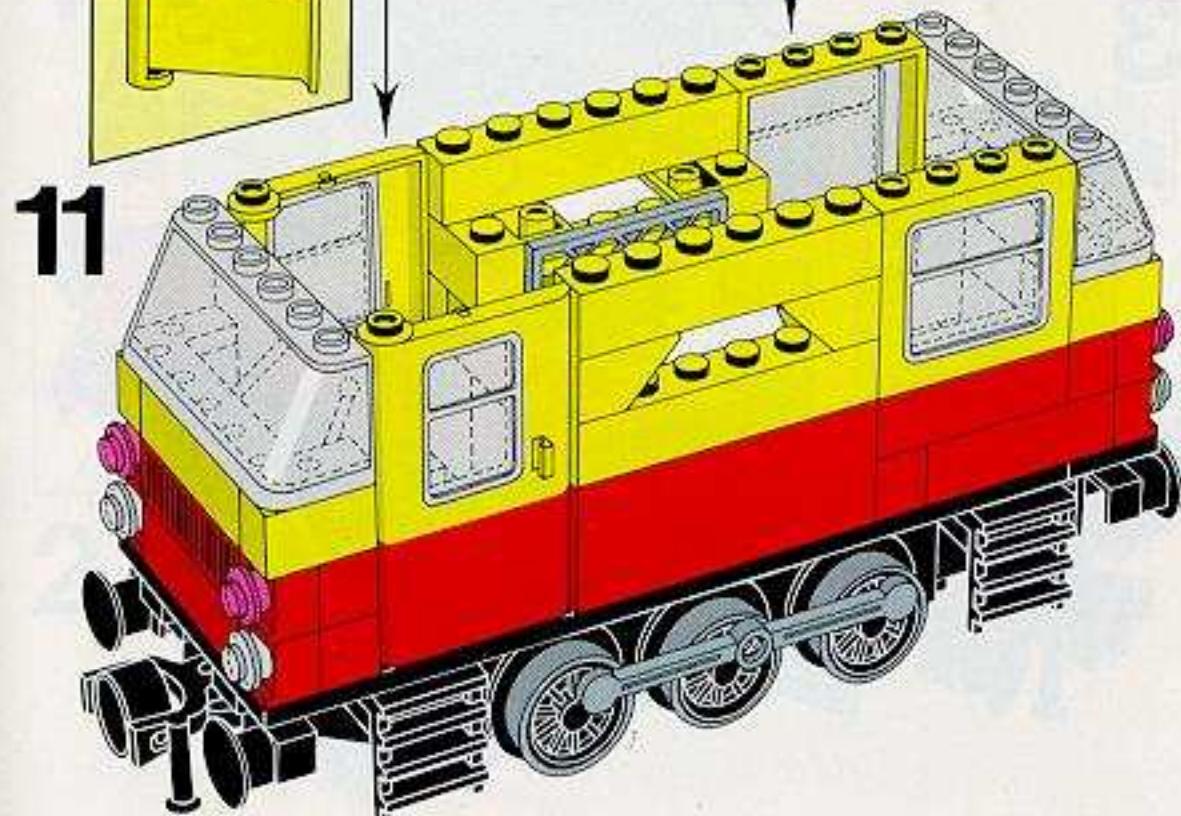
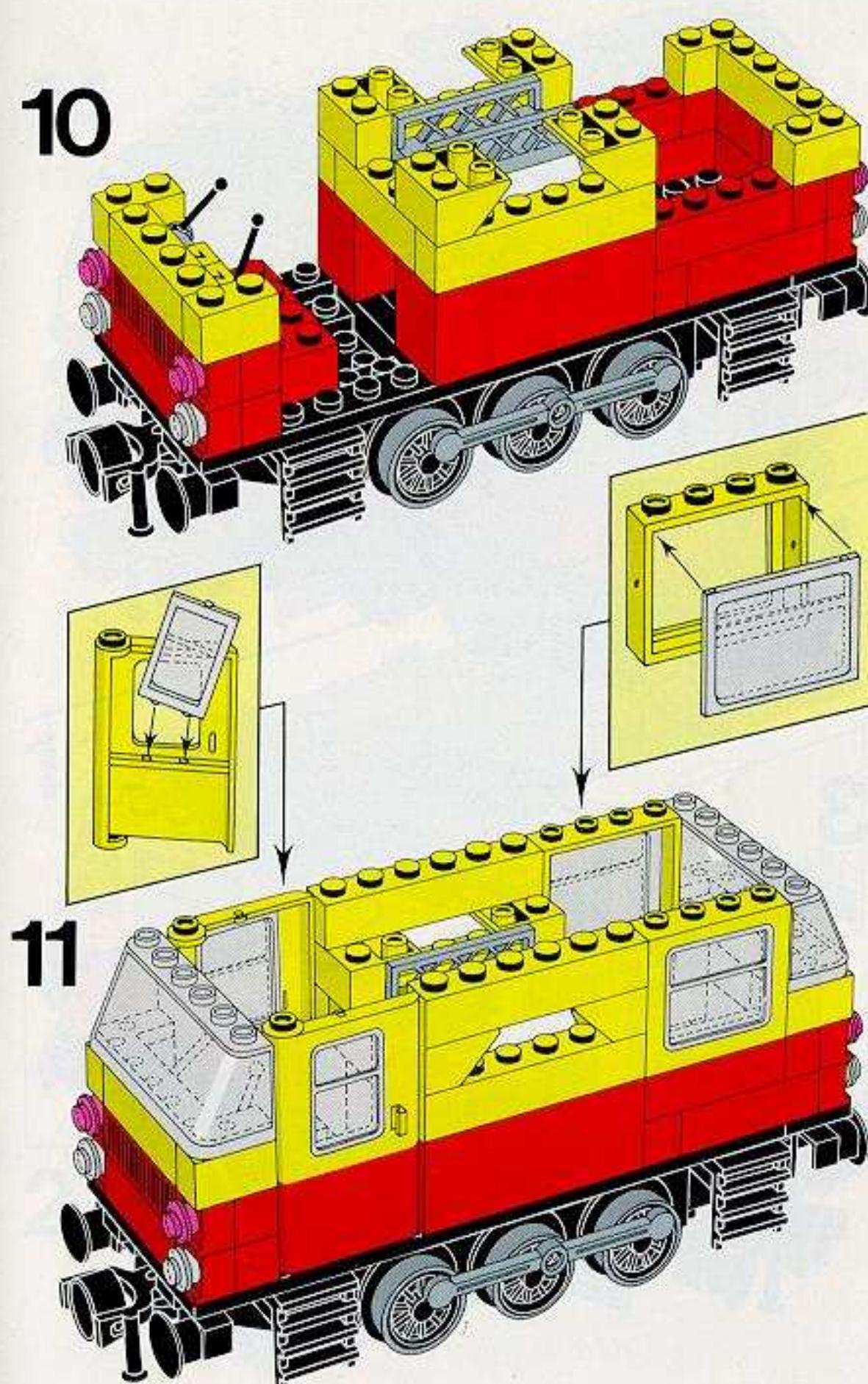
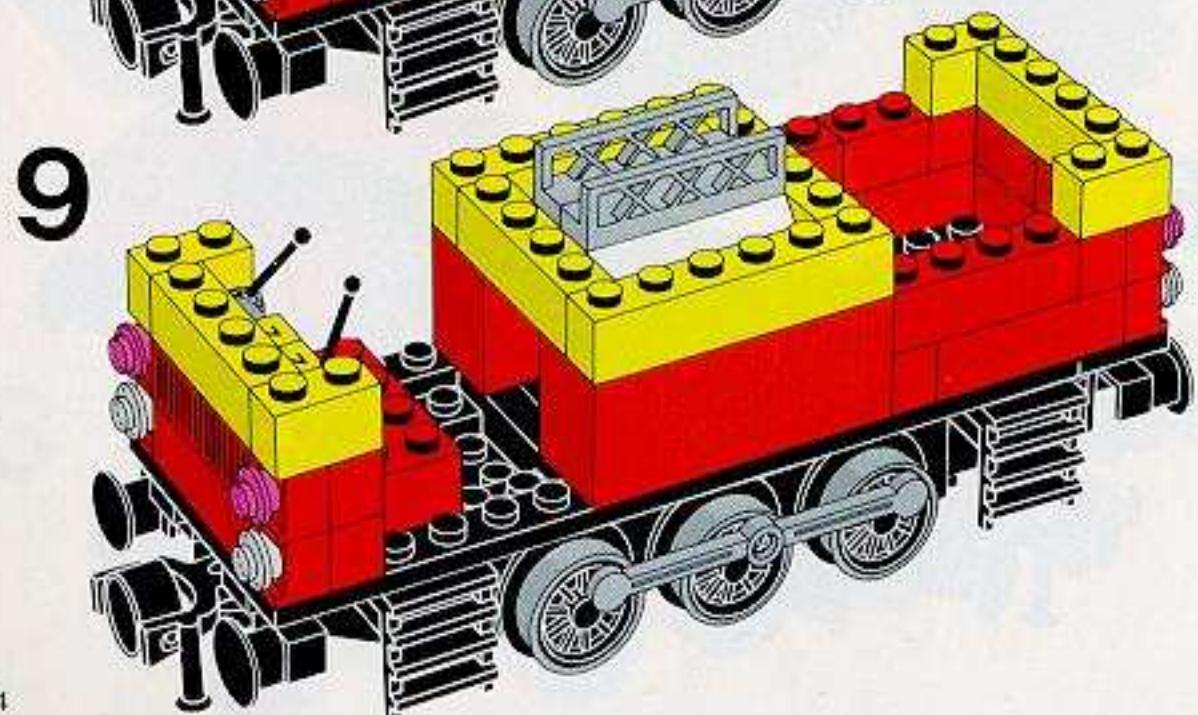
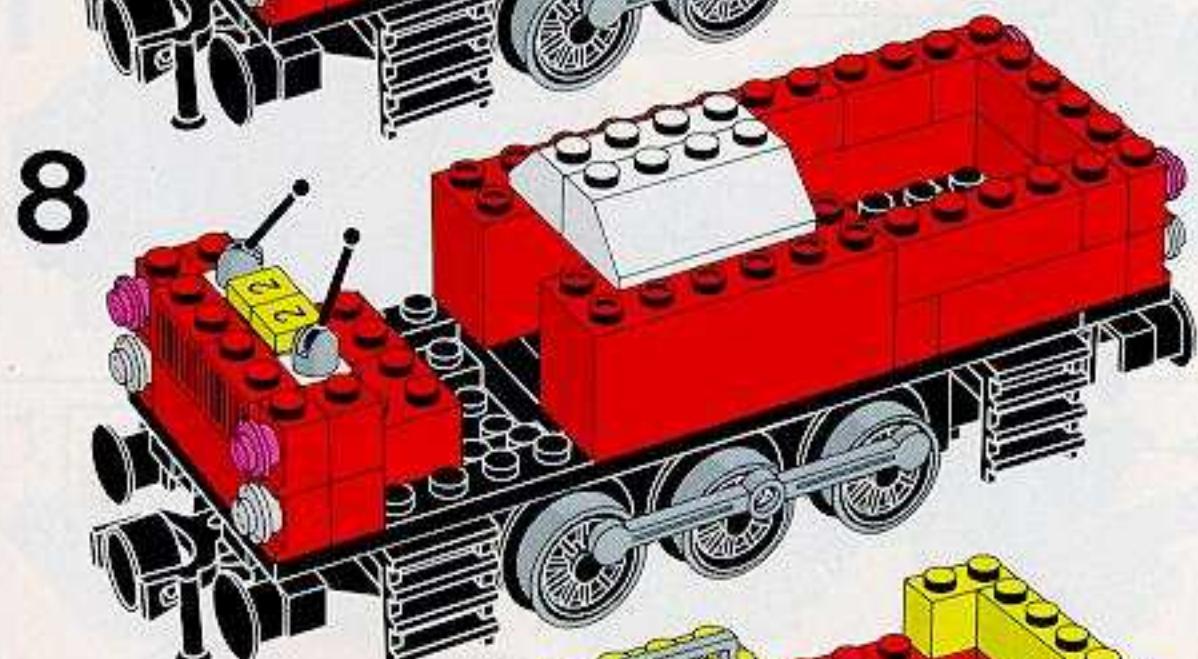
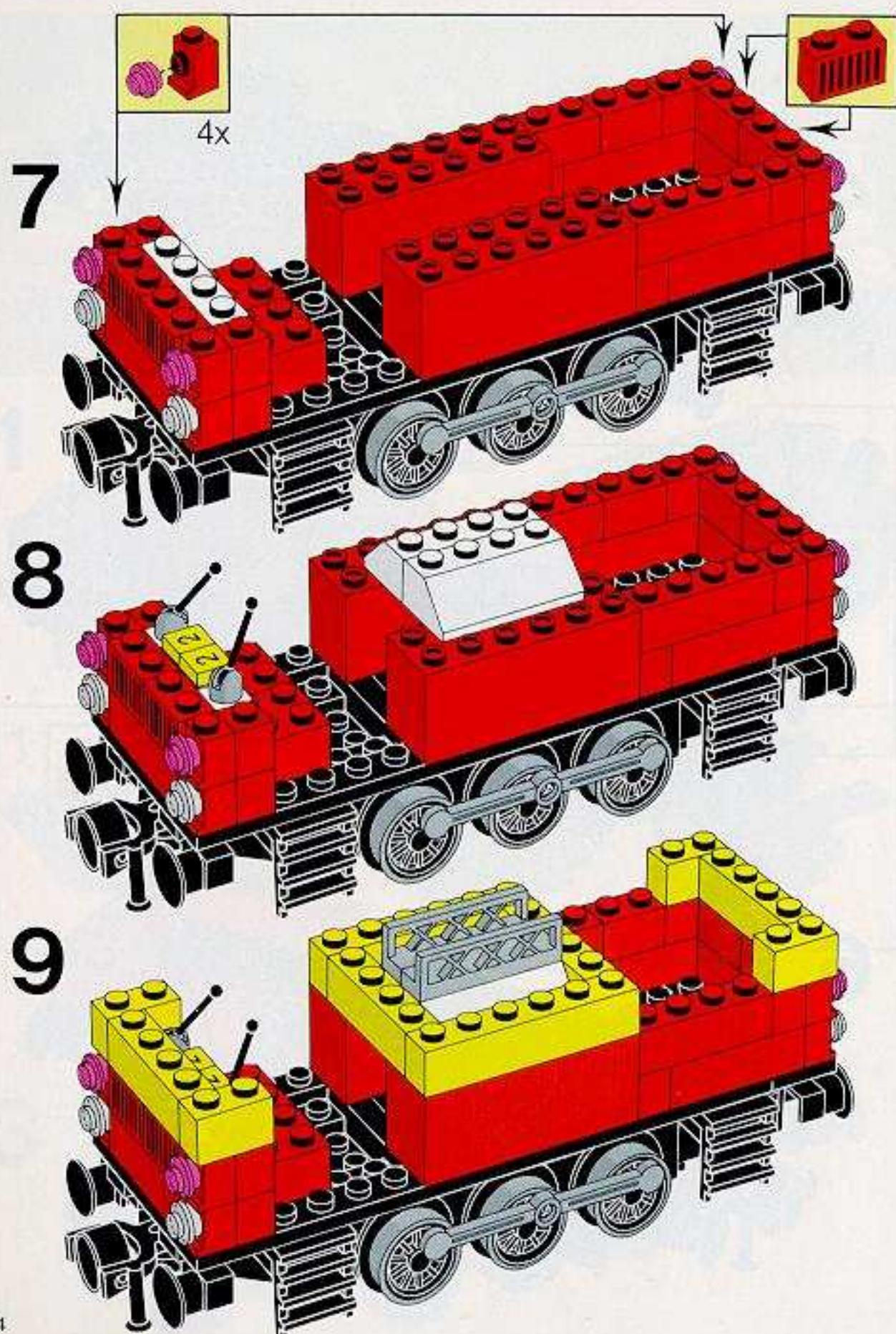


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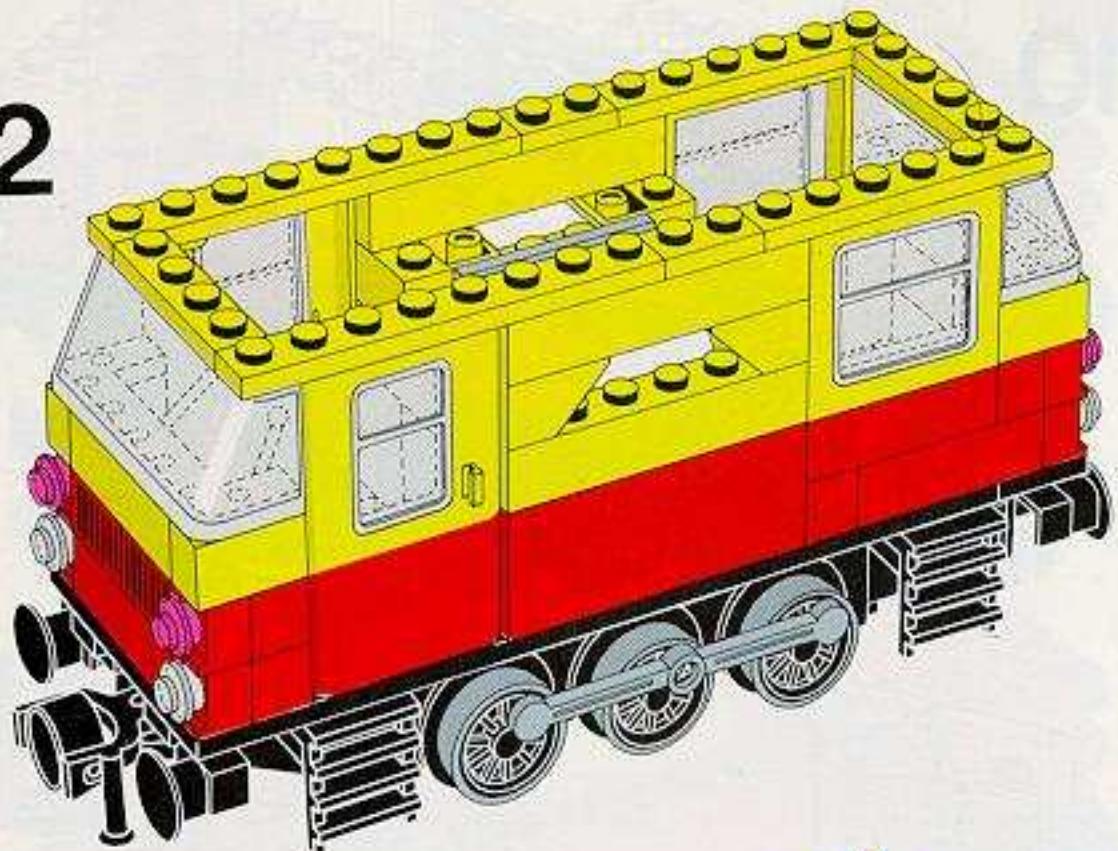




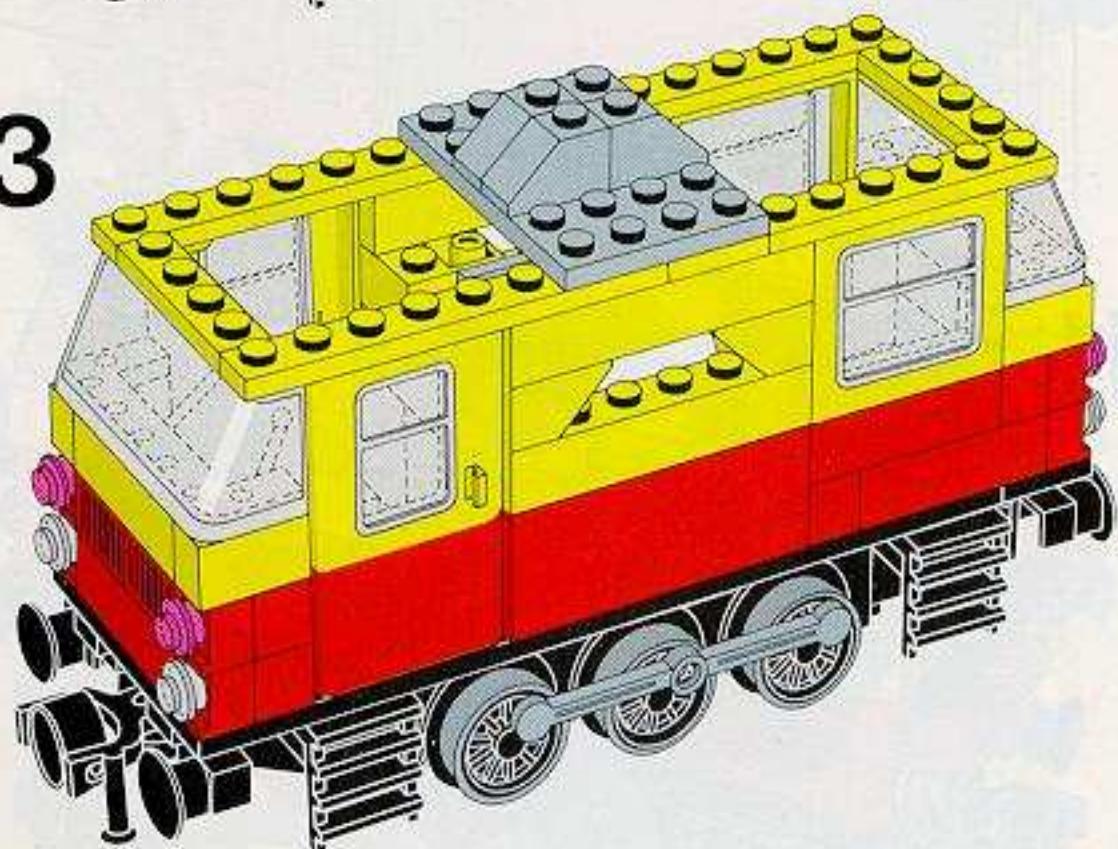




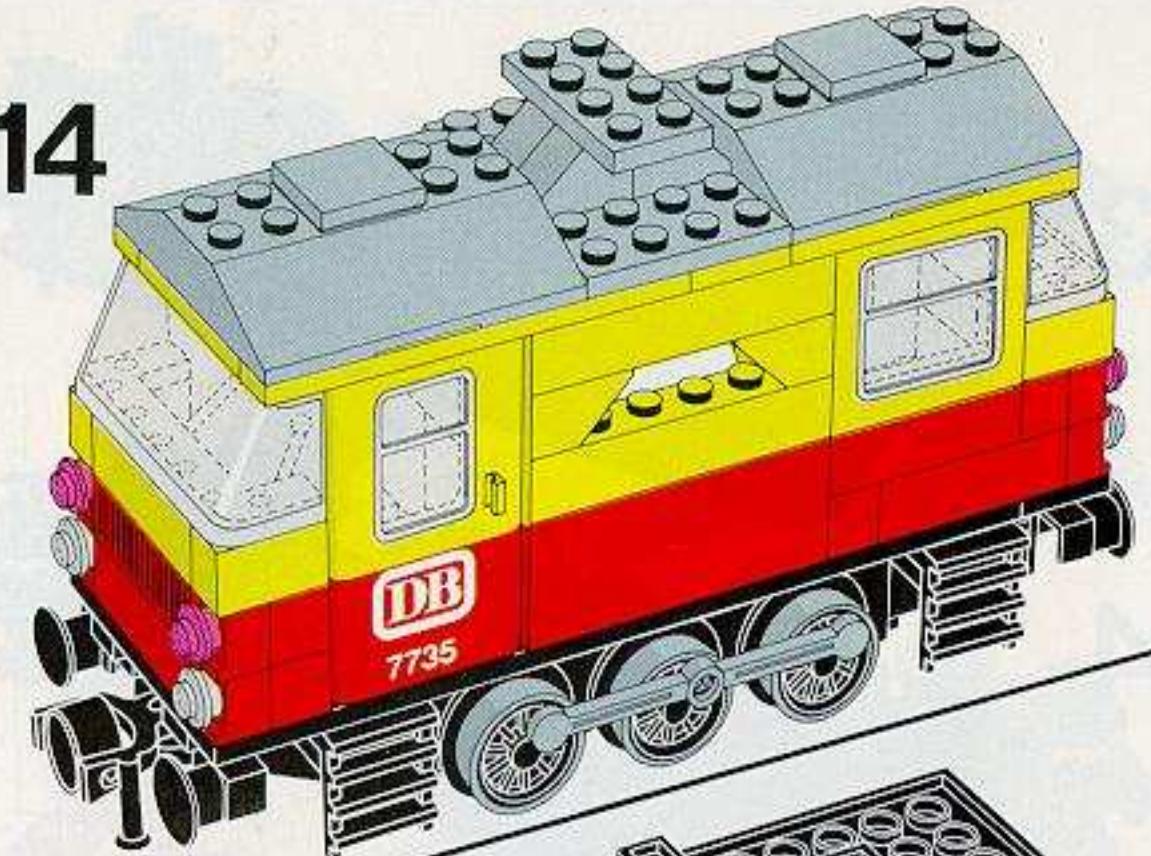
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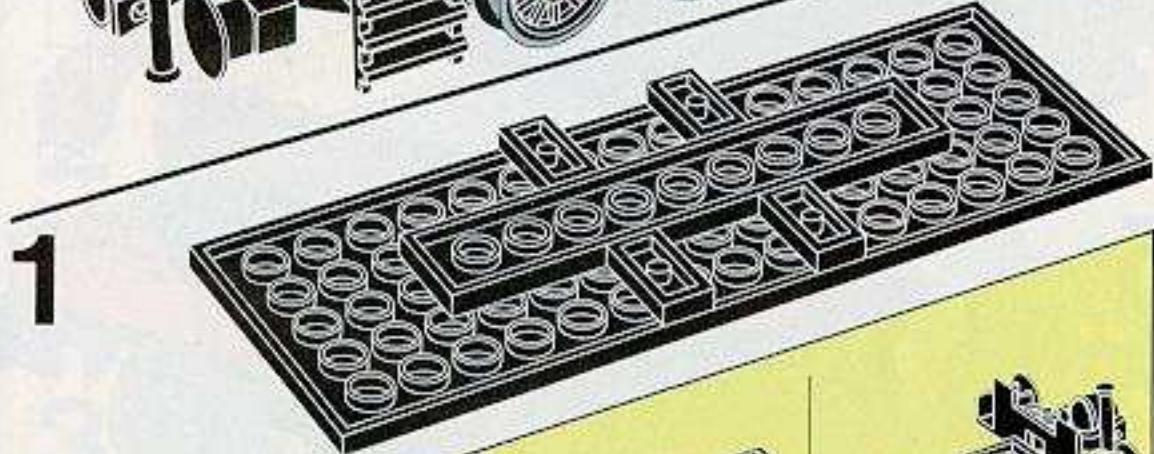
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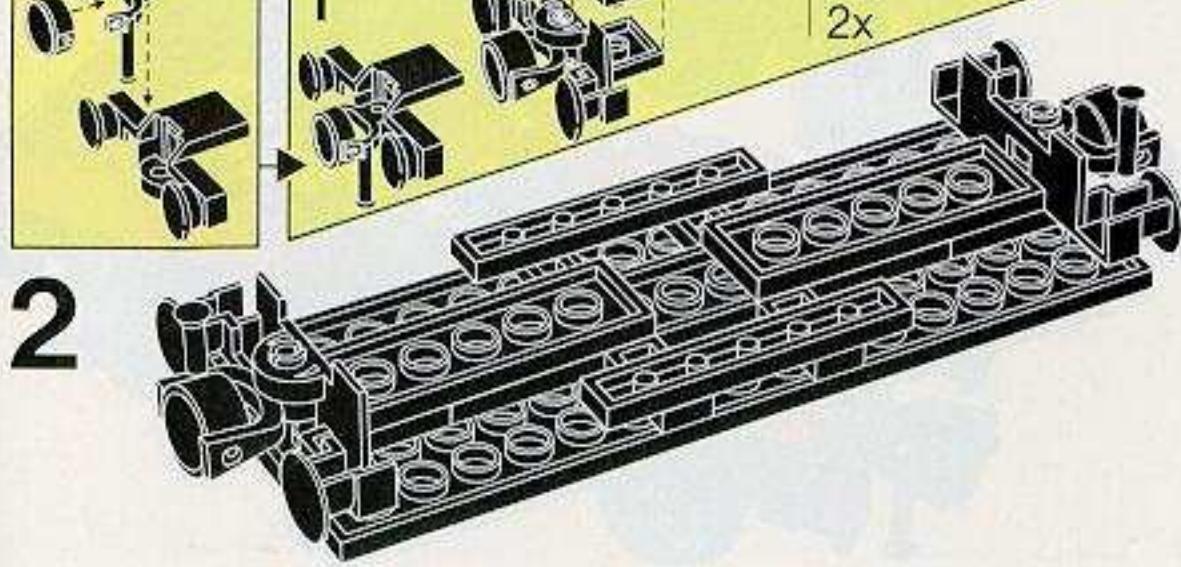
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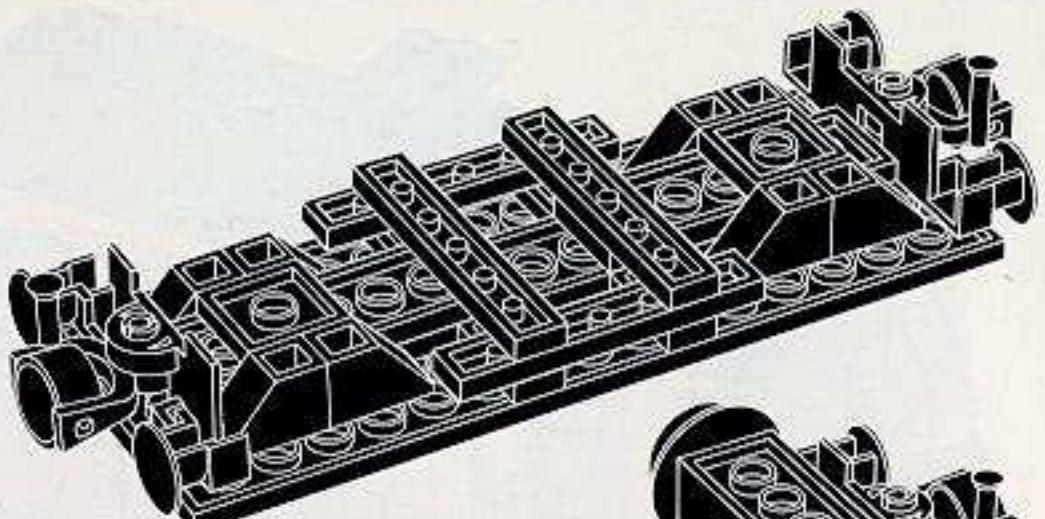
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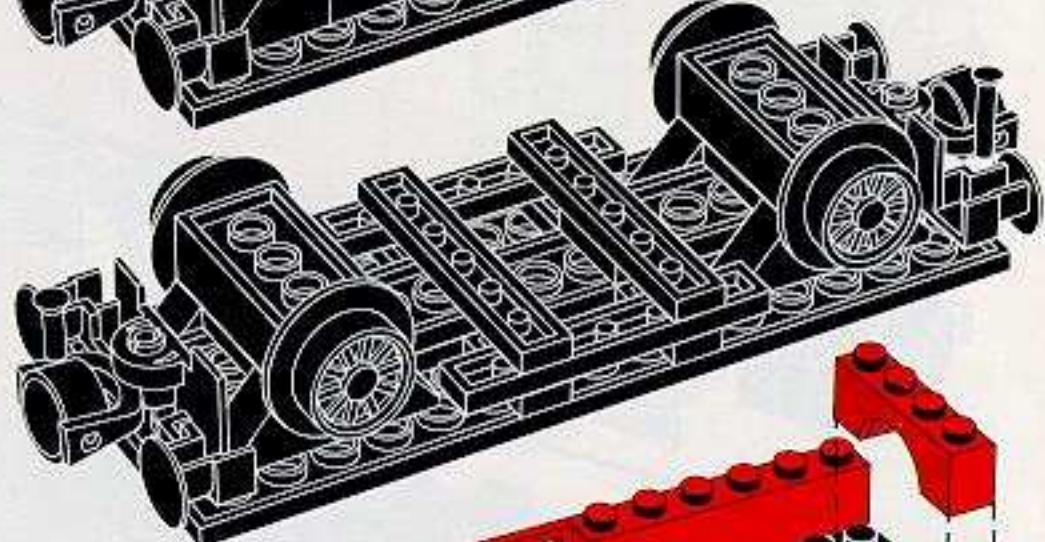
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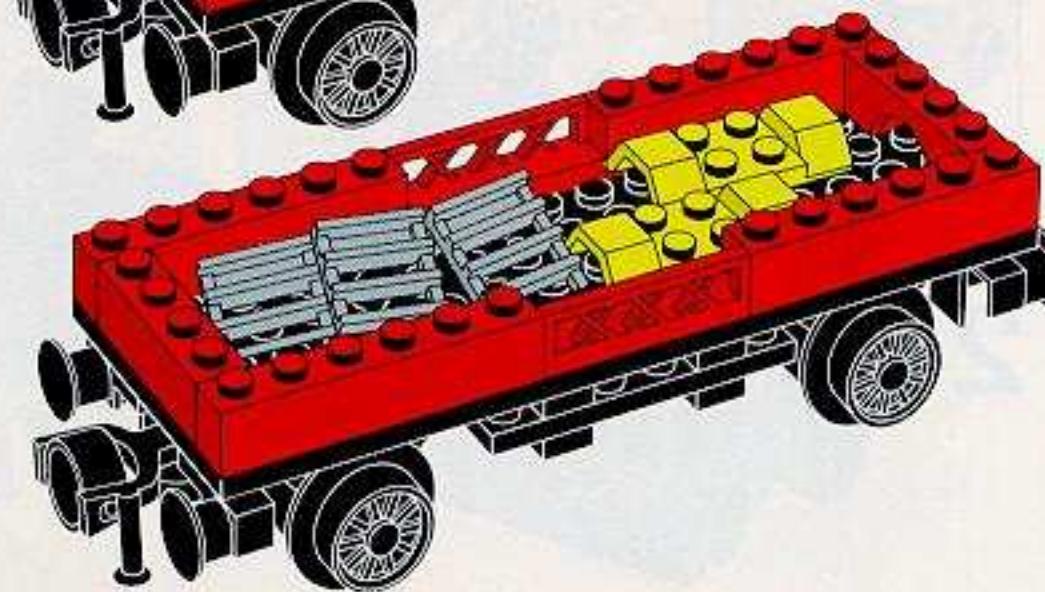
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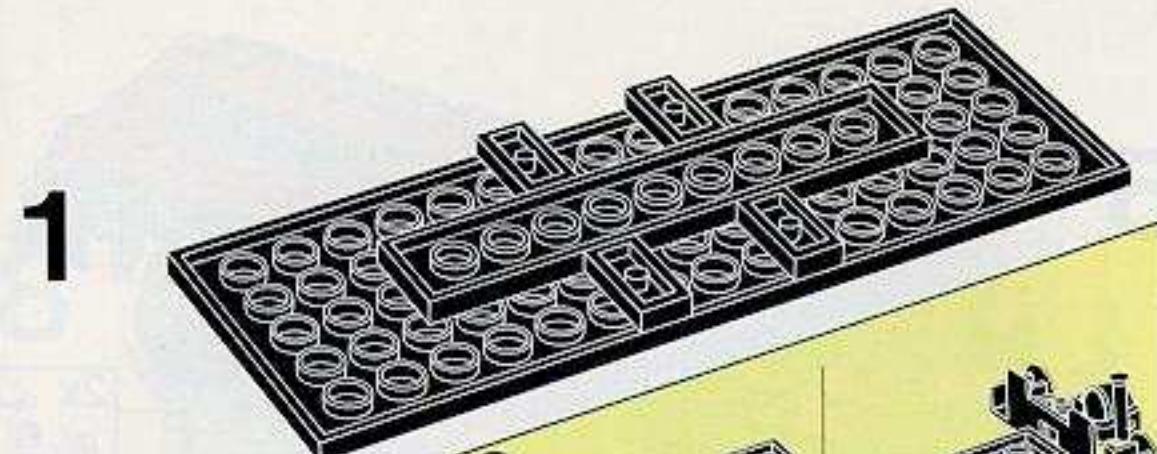
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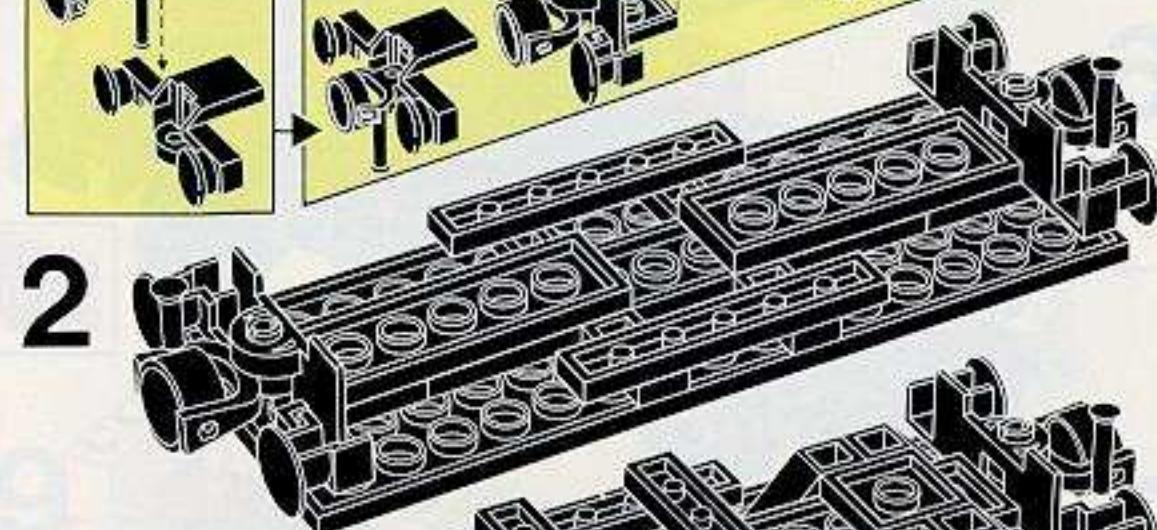
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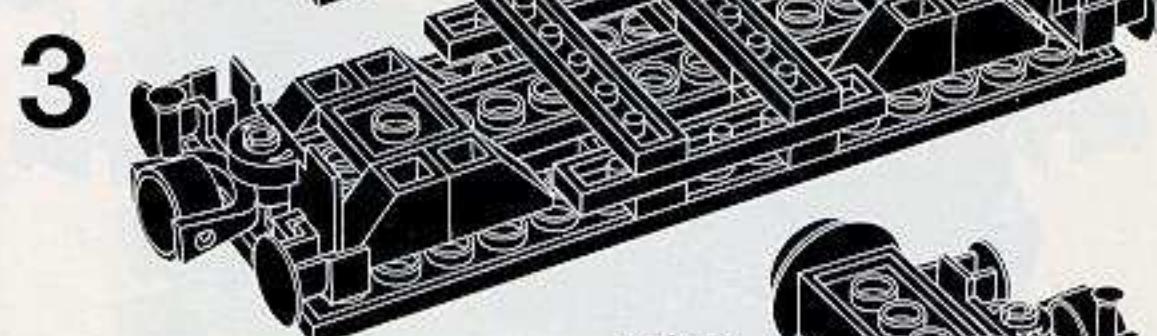
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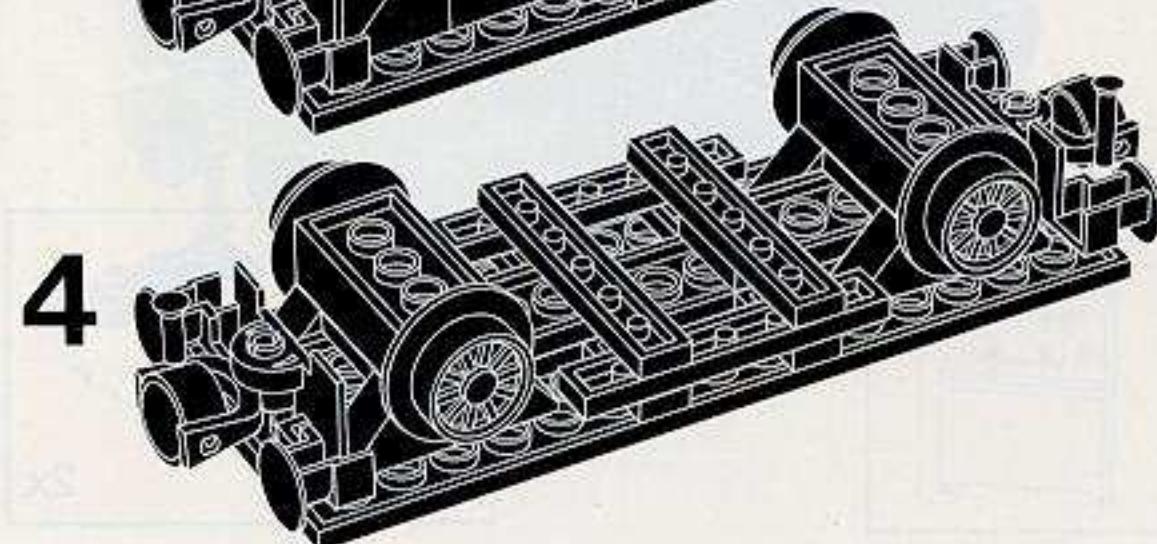
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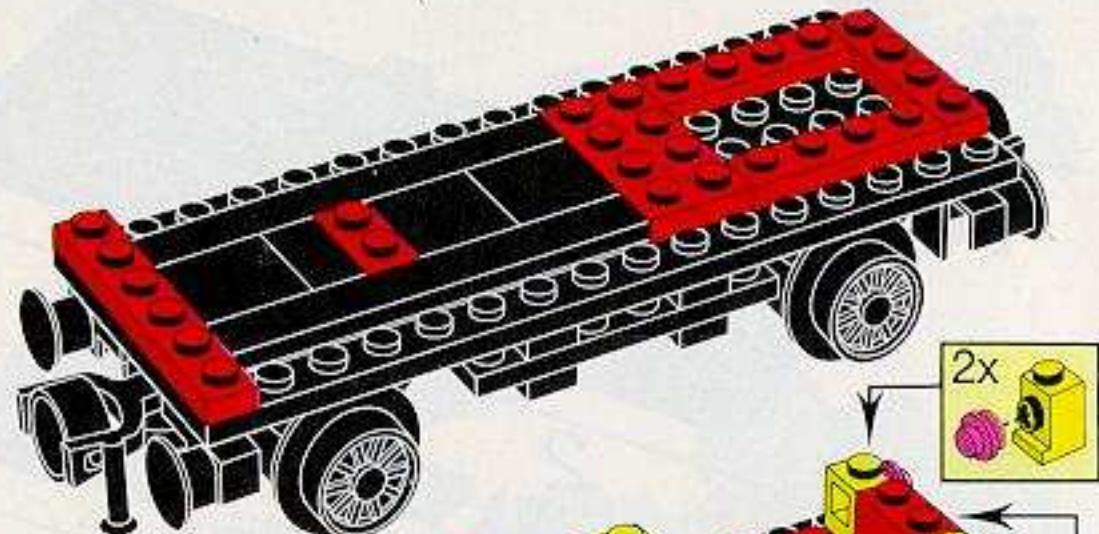
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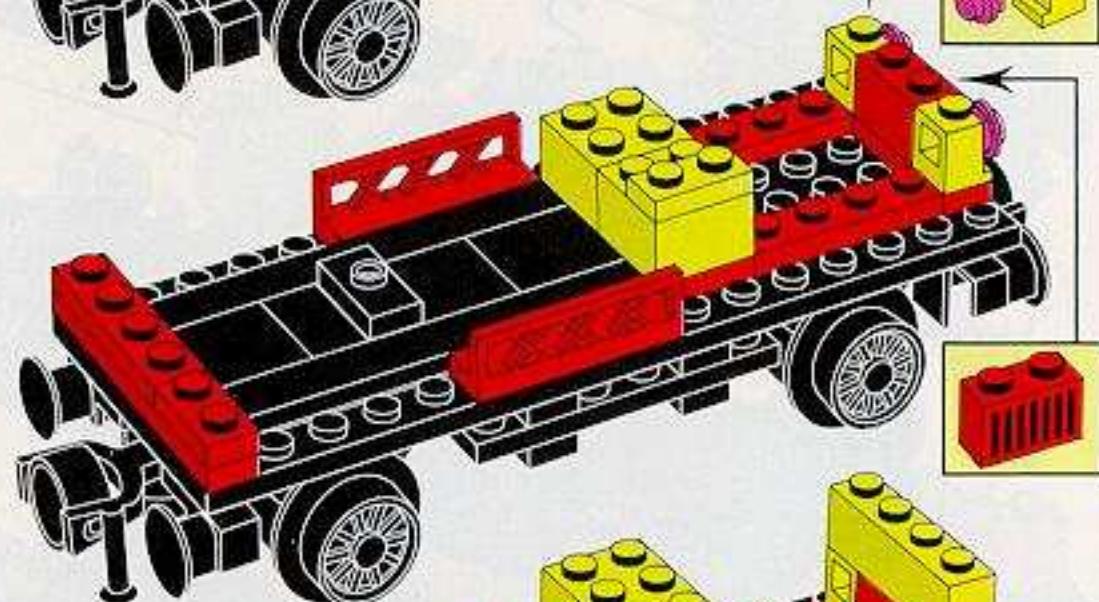
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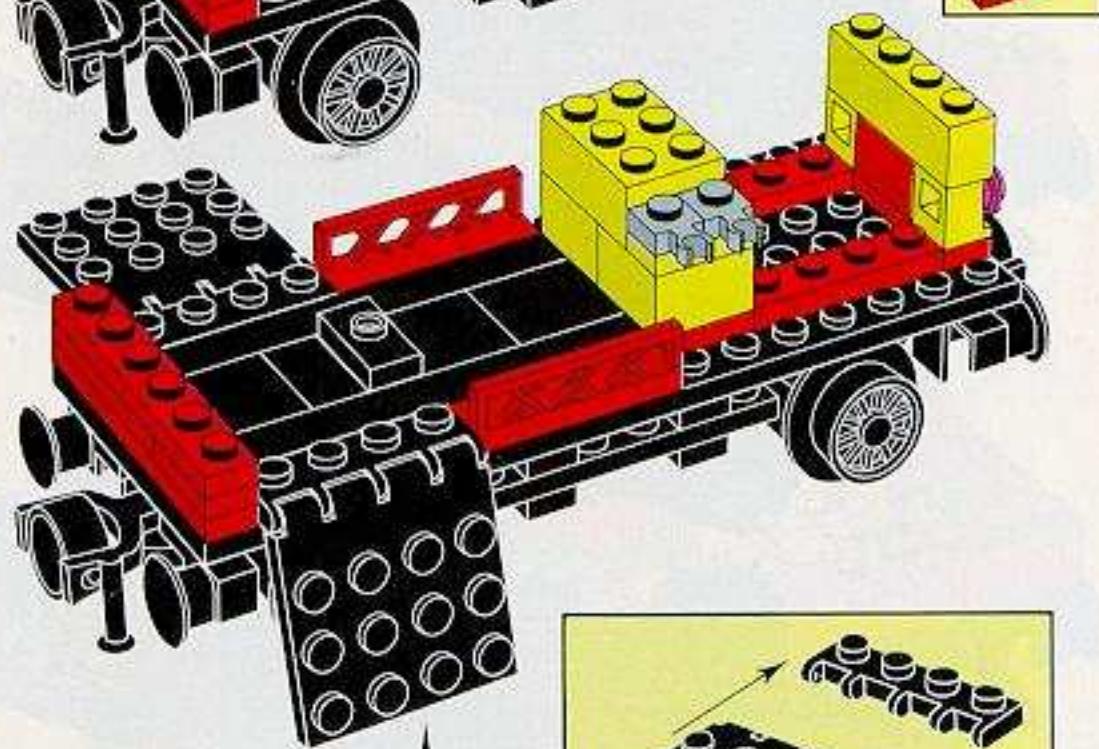
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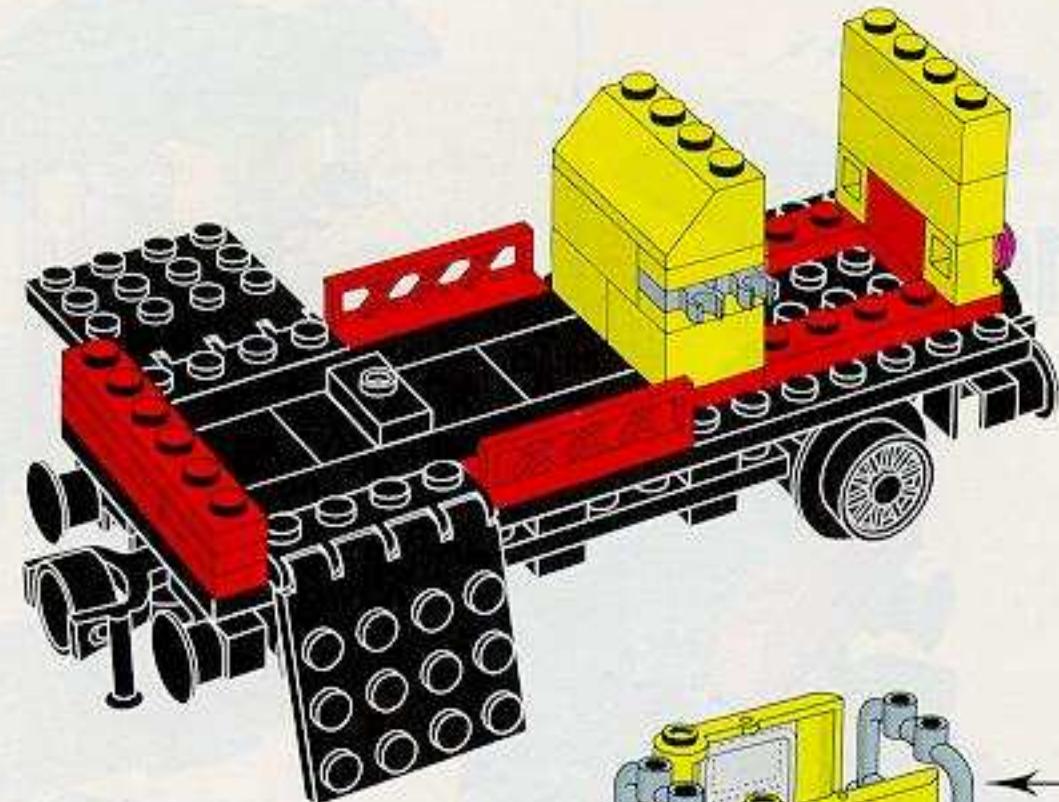


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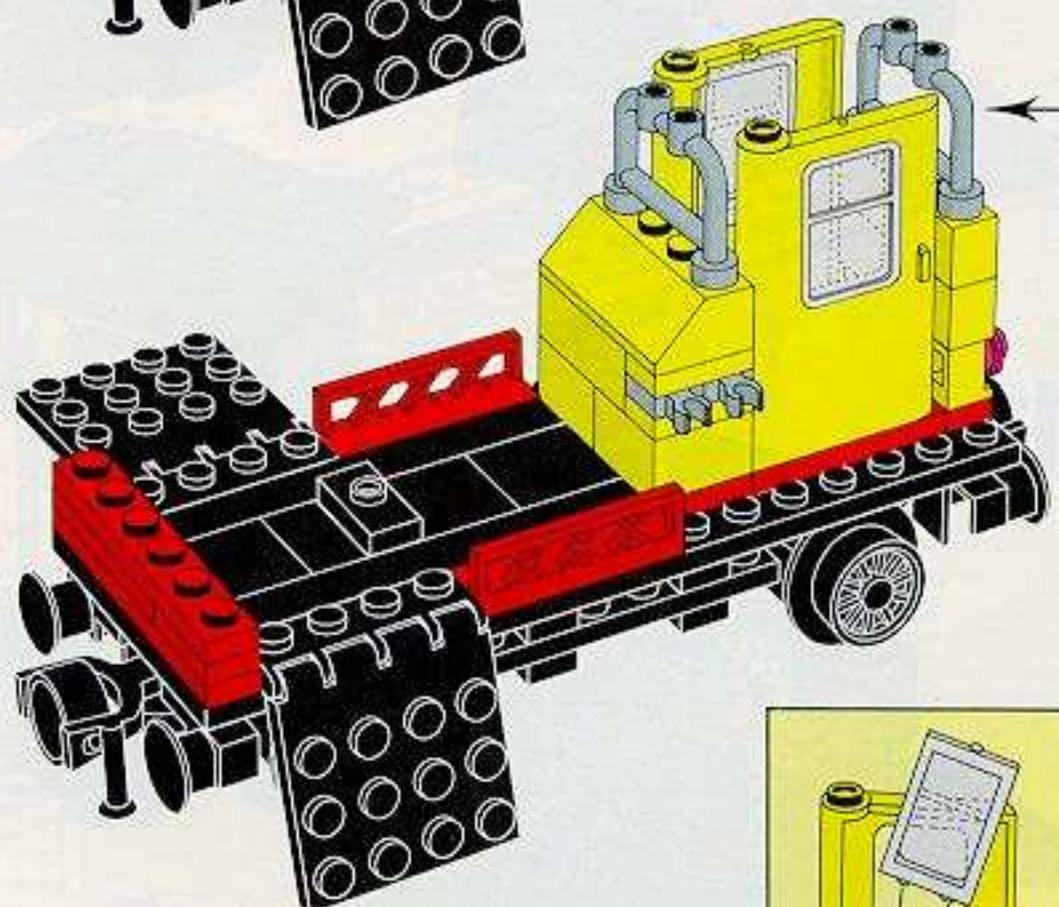


**2x**

**8**

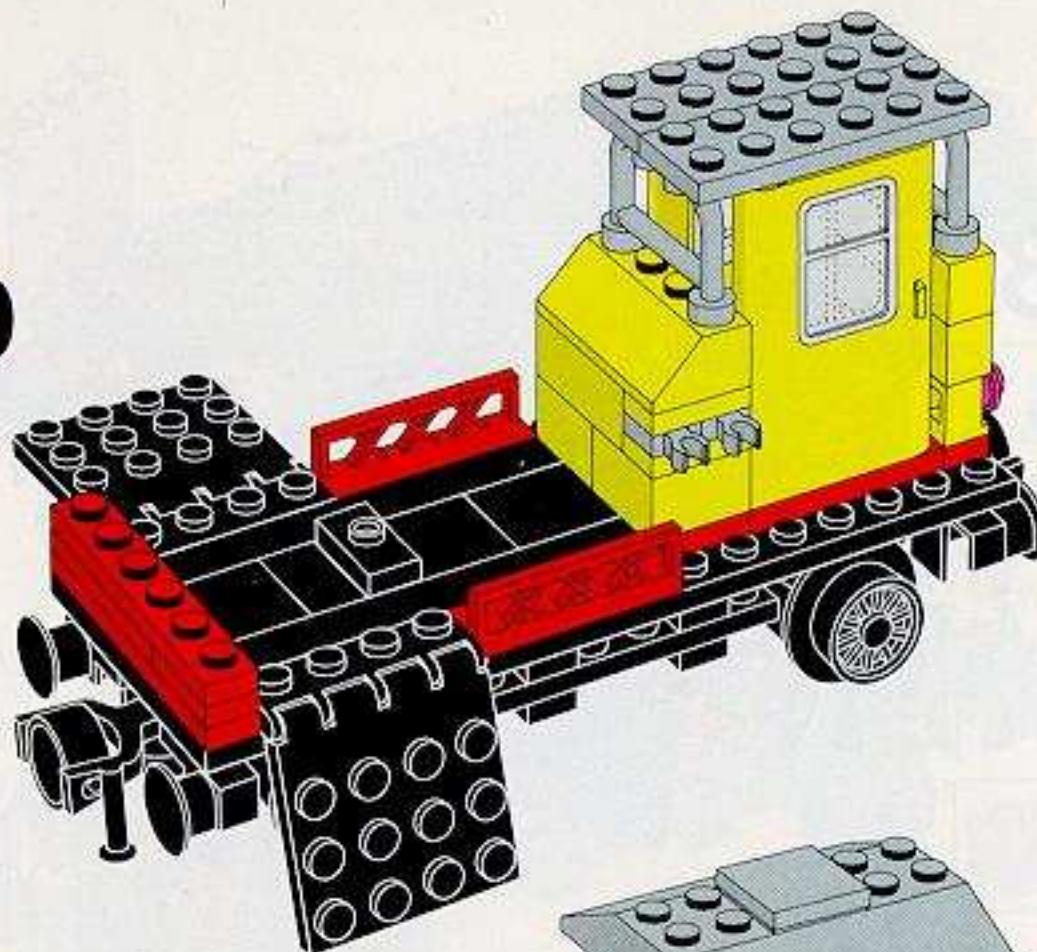


**9**

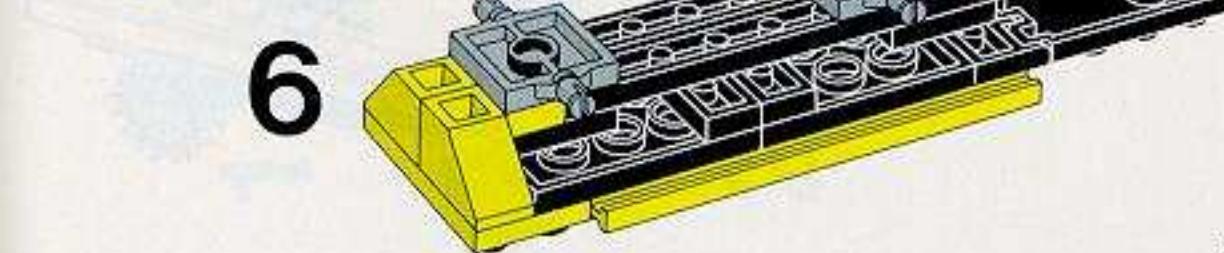
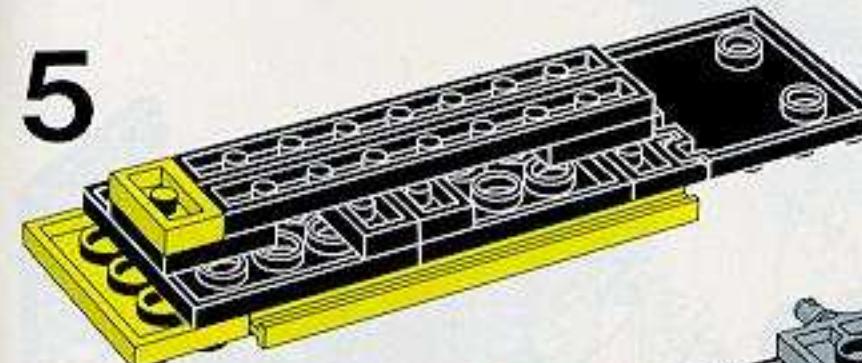
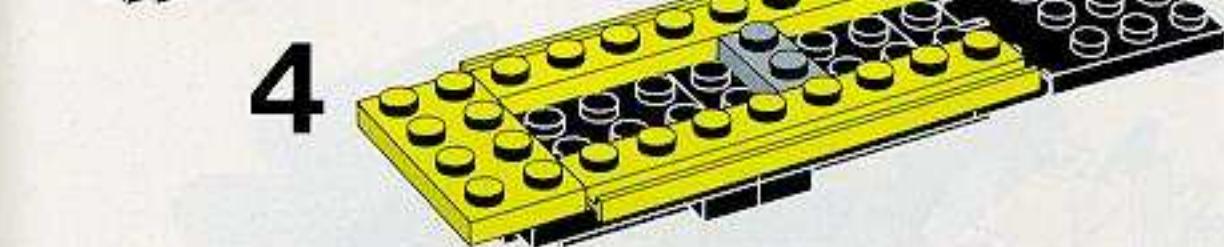
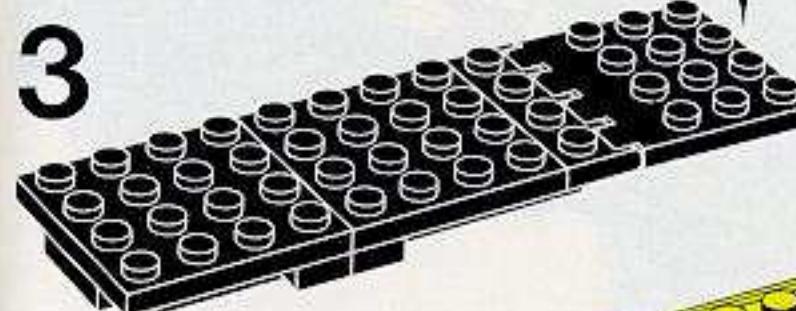
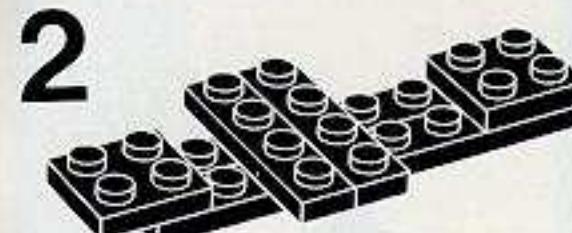
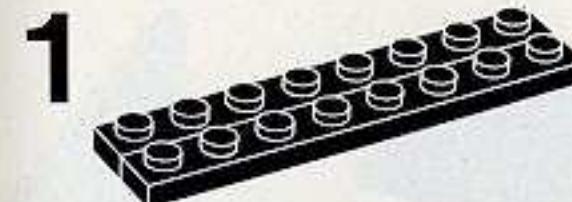
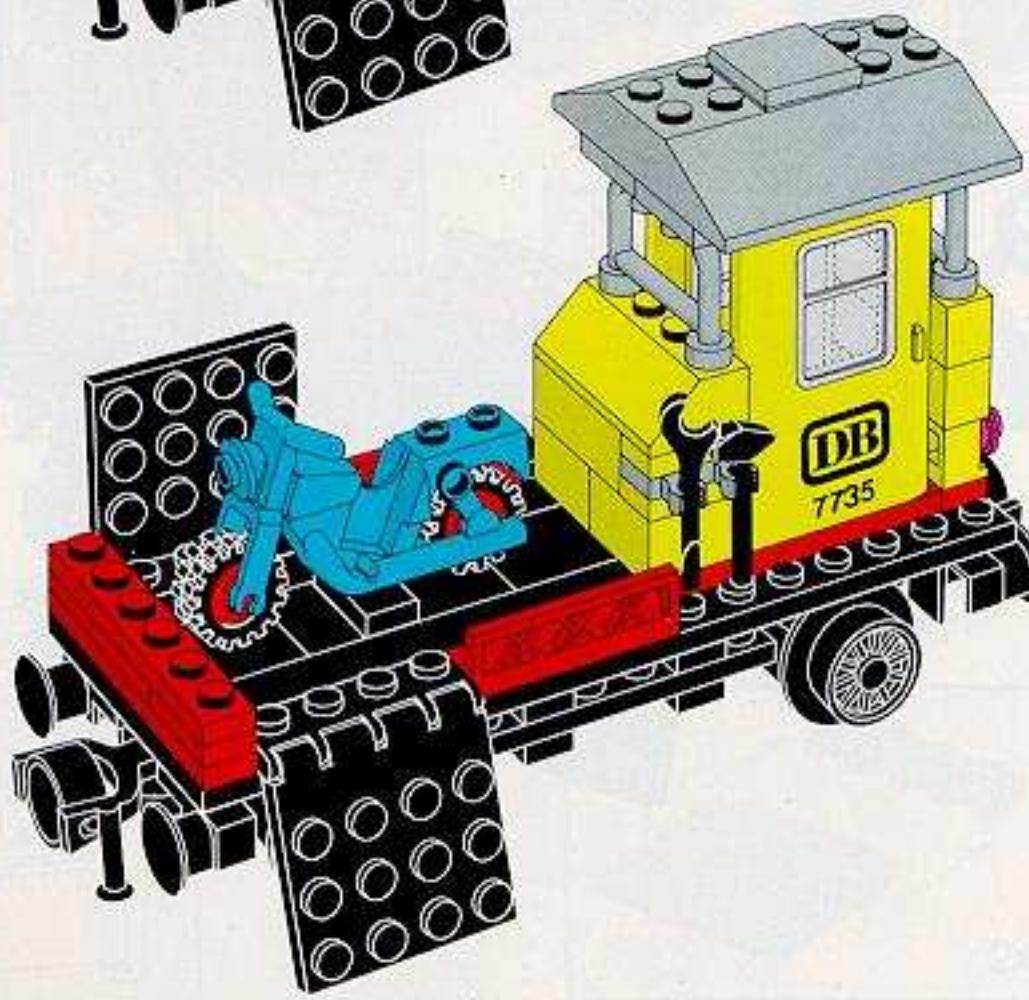


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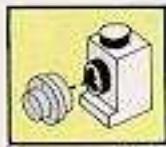
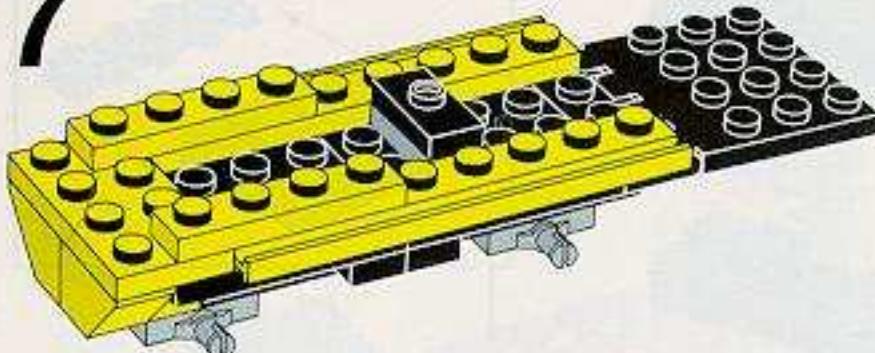
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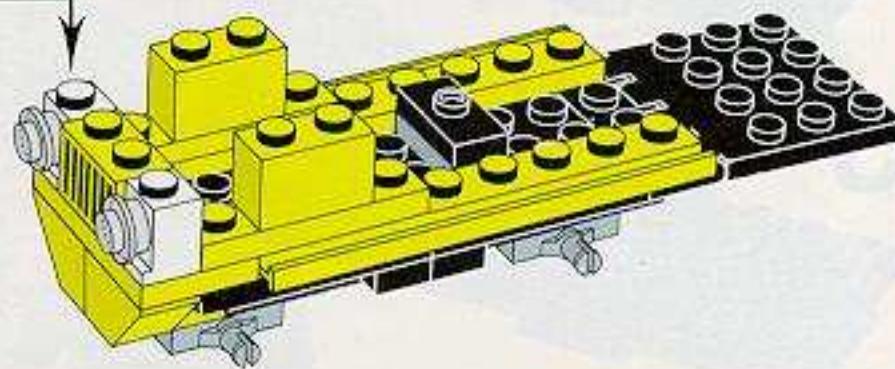
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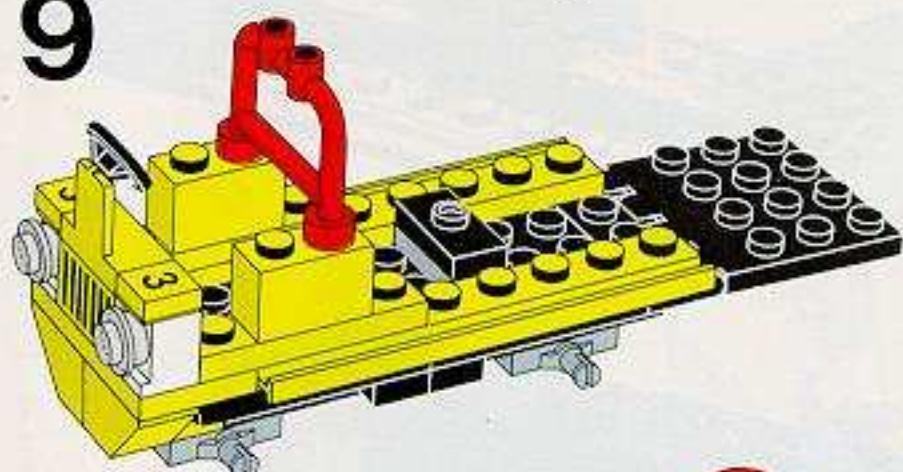
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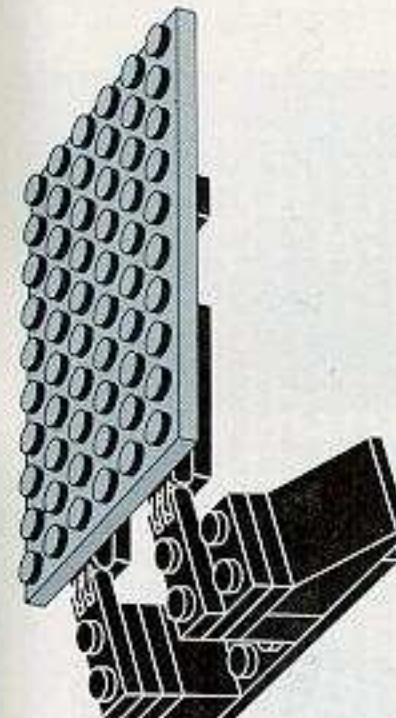
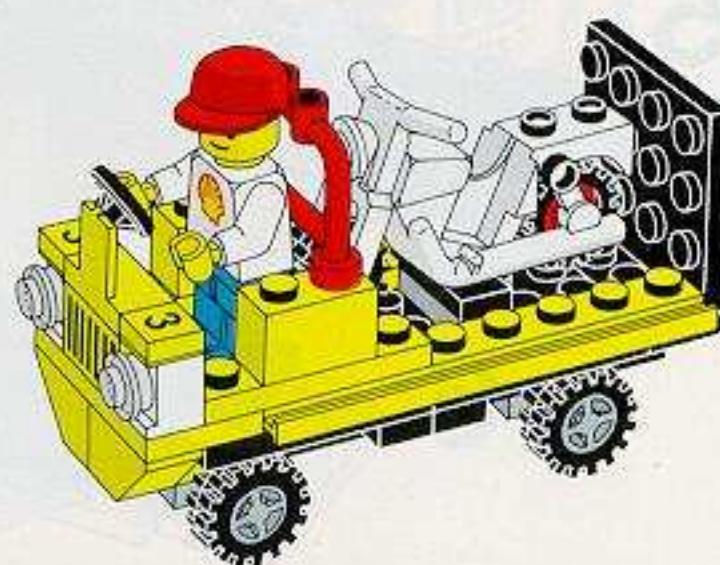
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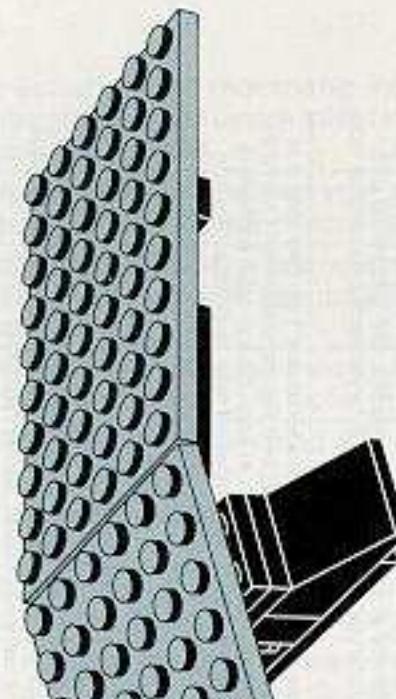
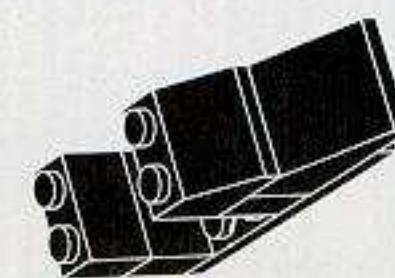
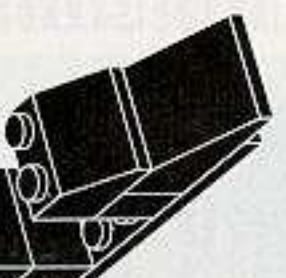
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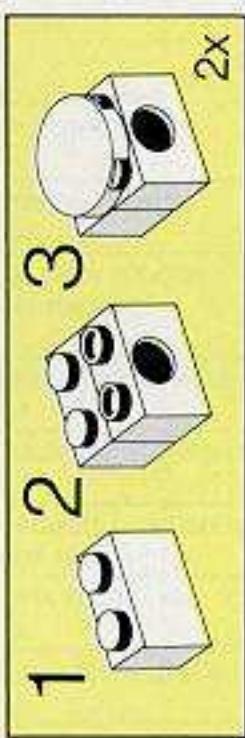
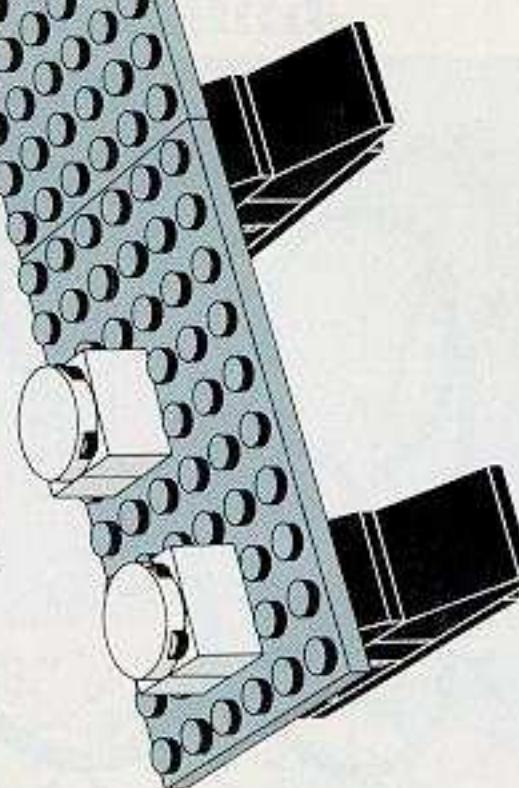
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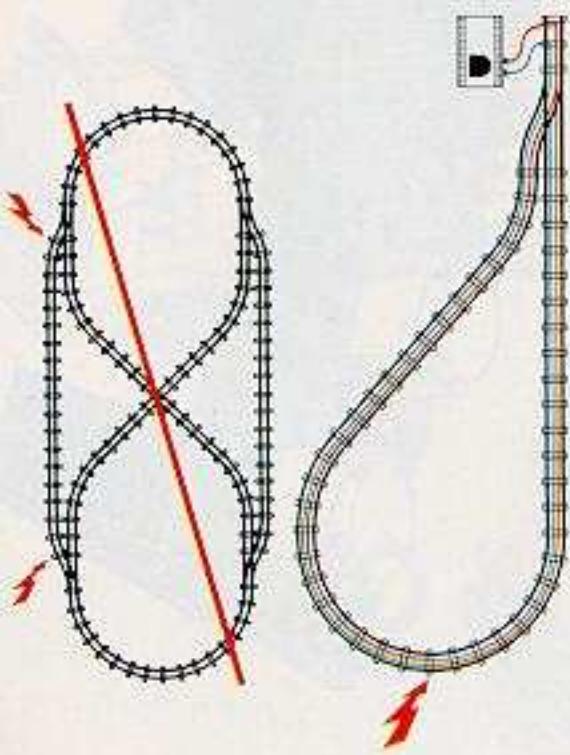


**1**



**2**





Einige Gleisanlagen können zu Kurzschlüssen führen. So zum Beispiel die hier gezeigte. Sollte es zu einem Kurzschluß kommen, schaltet sich der Transformator automatisch ab, und der Zug kann nicht mehr fahren. Um zu prüfen, ob bei Deiner Gleisanlage eine Kurzschlußgefahr besteht, brauchst Du nur die linke und rechte Schiene mit jeweils einer unterschiedlichen Farbe nachzuziehen. Sollten sich beide Farben auf der gleichen Seite treffen, gibt es einen Kurzschluß.

Certaines constructions de circuit 12 V peuvent provoquer un court-circuit, comme celui-ci par exemple. Si l'y a un court-circuit, le transformateur est automatiquement coupé et le train ne peut plus avancer. Pour vérifier si un circuit peut fonctionner, dessinez deux rails en prenant un crayon d'une couleur pour le rail intérieur et un crayon d'une autre couleur pour le rail extérieur (comme illustré). Si les deux couleurs se rejoignent sur le même côté, il y a aura un court-circuit.

Soms zal bij een 12 Volt baan kortsluiting optreden, b.v. bij de baan die je hier afgebeeld ziet. Op dat moment zal de automatische beveiliging in de transformator de stroom onderbreken, zodat de trein niet verder kan rijden. Dit kun je voorkomen door even met verschillende kleurpotloden de binnen- en buitenbaan te volgen. Kommen de 2 verschillende kleuren bij elkaar dan zal kortsluiting optreden.

Nogle opbygninger af 12V togbaner vil kortslutte, f.eks. den, der er vist her. Hvis banen er kortsluttet slår strømavbryderkontakten i transformatoren automatisk fra, og toget kan ikke køre. Du kan selv kontrollere om dinbane vil kortslutte ved at læse 2 farver følg i hhv. den yderste og den indreste del af banen (som vist). Hvis de 2 farver mødes på samme side kortslutter banen.

Några uppbygningar av 12 volt tågbanor vil kortsluttes, t.ex. den som visas här. Om banan är kortslutad, slas strömavbryderkontakten i transformatorn automatiskt av och tåget kan ej köra. Du kan själv kontrollera om det är kortslutning i din bana genom att följa respektive häg från den yttersta och den innerska delen av banan (som på bilden). Om de 2 färgerna möts på samma sida kortsluts banan.

Jotkut 12 V ratayndistelmät voivat elhauttaa okosulun, esim. tässä esitetyllä. Jos ratsa on okosulussa, katkeaa virta muuntajasta automaattisesti, ja junta pysähyy. Voit itse varmistaa, ettei okosulukua aiheudu piirtämällä suunnitteluasi ratayajesteinän paperille seuraavasti: Piirrä ulommainen kisko esim. punaisella ja sisempi sinisellä. Jos punainen ja sininen kohtaaavat samalla pisteellä, syntyy okosuku.

Some 12 volt track layouts will short circuit, e.g. the one shown here. If the track short-circuits the transformer automatically cuts out and the train stops. To check whether your track will short circuit, trace 2 colours along the inner and outer track respectively (as shown). If the 2 colours meet on the same side, the track will short circuit.

Errate composizioni di tracciati ferroviari a 12 V possono causare cortocircuito. In questo caso il trasformatore è predisposto per il disinnesto automatico della corrente evitando al treno di rimettere in moto. Per evitare il corto circuito nei tracciati eseguire il seguente controllo. Tracciare due linee parallele di diverso colore che riproducano il tracciato elettrificato (vedi illustrazione). Non ci sarà corto circuito se i colori delle linee non si sovrappongono toccandosi.

Al establecer trayectos con las vías de 12 voltios, se puede producir algún cortocircuito como el del ejemplo. Si se produce cortocircuito, el transformador se desconecta automáticamente. Para verificar si tu trayecto está en cortocircuito, comprueba si los 2 colores de las vías, el de fuera y el de dentro, se encuentran en un mismo lado, en cuyo caso estará en cortocircuito. (Ver ilustración).



Die Schienen sind regelmäßig mit einem sauberen Radiergummi oder einem leicht in Spiritus getränkten Lappen zu reinigen.

Nettoyer régulièrement les rails avec une gomme ou avec un chiffon imbibé d'alcool à brûler.

Vraag een volwassene om regelmatig de rails schoon (vetvrij) te maken met een doekje en wat methyl-alcohol.

Rens jævnligt skinnerne med et almindeligt stykke viske-læder eller med en klud fugtet med sprit.

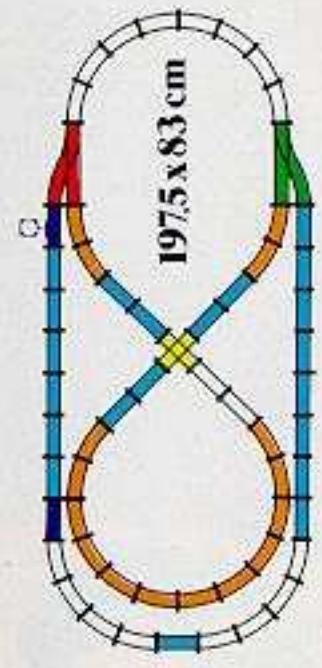
Du kan rengöra rälsen med ett vanligt radergummi eller en bomullsstuss fuktad med T-sprit.

Puhdista sähköä johtavat kiskot säännöllisesti tavallisella pyyhekumilla tai taloussprialilla kostutetulla räällä.

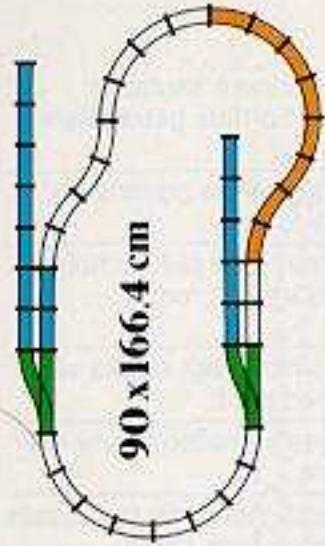
Clean the rails regularly with a hard or ink rubber or with a cloth dipped in methylated spirits.

Pulire regolarmente le rotaie con carta vetrata a grana fine o un panno imbevuto di alcool.

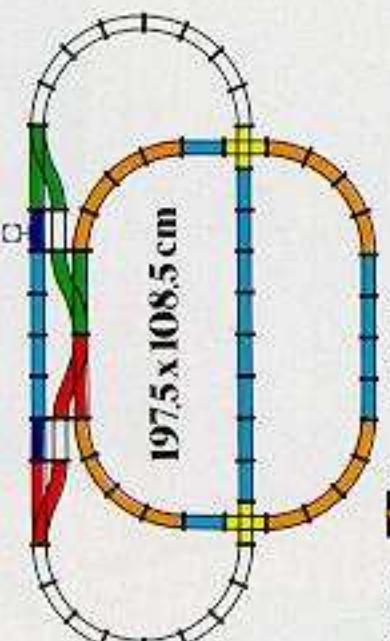
Las vías deben limpiarse regularmente con una goma fina o con un trapo mojado en alcohol.



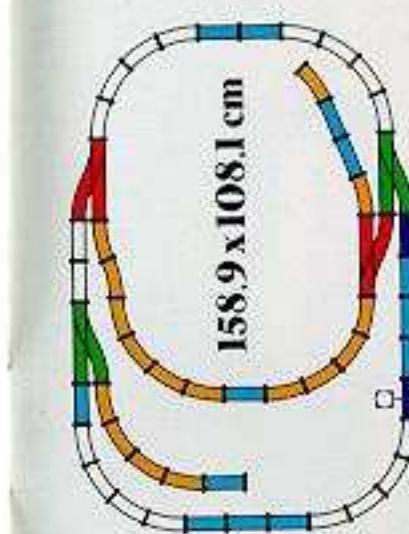
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■ 2 x 7851 ■ 1 x 7857 ■ 1 x 7859  
■ 3 x 7854 ■ 2 x 7858 ■ 1 x 7860

**e)**

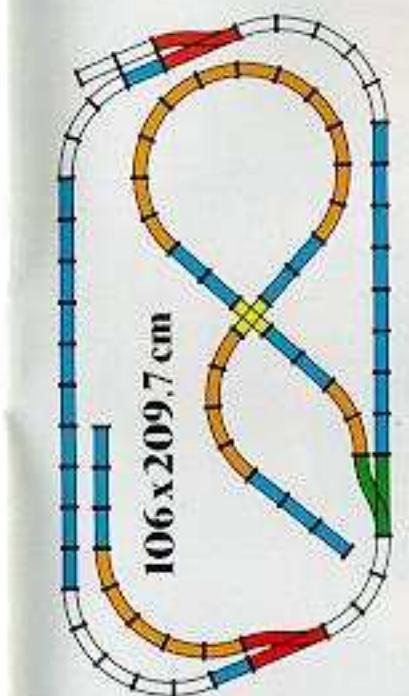
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■ 1 x 7851 ■ 1 x 7855 ■ 2 x 7859



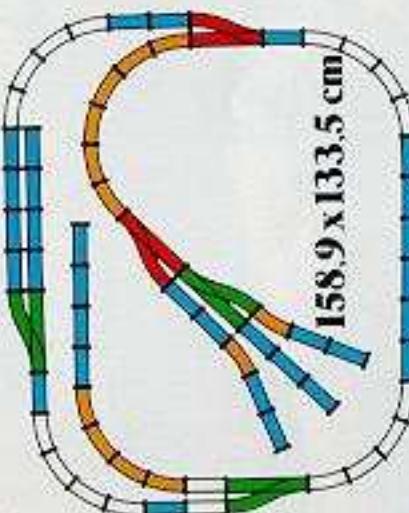
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■ 2 x 7851 ■ 2 x 7857 ■ 1 x 7860  
■ 3 x 7854 ■ 2 x 7858 ■ 1 x 7860

**b)**

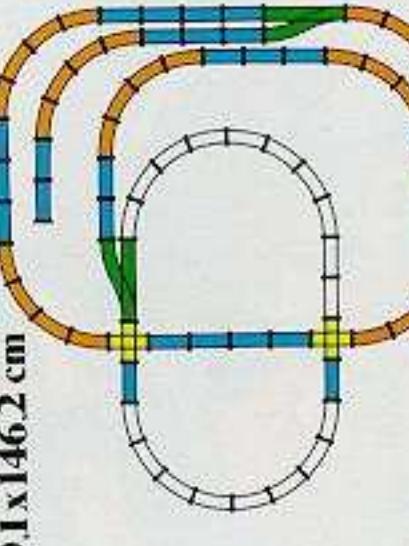
■ 2 x 7850 ■ 2 x 7855 ■ 2 x 7859  
■ 2 x 7851 ■ 2 x 7858 ■ 1 x 7860

**c)**

■ 4 x 7850 ■ 3 x 7855 ■ 2 x 7858  
■ 3 x 7851 ■ 1 x 7857 ■ 1 x 7859  
■ 4 x 7854 ■ 3 x 7858 ■ 1 x 7860



■ 3 x 7850 ■ 4 x 7854 ■ 2 x 7858  
■ 4 x 7851 ■ 2 x 7855 ■ 3 x 7859  
■ 3 x 7854 ■ 4 x 7855 ■ 2 x 7857



■ 4 x 7850 ■ 3 x 7855 ■ 1 x 7859  
■ 3 x 7851 ■ 4 x 7854 ■ 1 x 7857  
■ 4 x 7854 ■ 3 x 7858 ■ 1 x 7860

**h)**

■ 3 x 7850 ■ 4 x 7854 ■ 2 x 7858  
■ 4 x 7851 ■ 2 x 7855 ■ 3 x 7859  
■ 3 x 7854 ■ 4 x 7855 ■ 2 x 7857



