



Pack 04

BUILD INSTRUCTIONS

**STAGE 25: ASSEMBLING THE REAR
LEFT WHEEL**

**STAGE 26: BUILDING THE REAR
CONTROL ARMS**

**STAGE 27: ASSEMBLING THE REAR
RIGHT WHEEL**

STAGE 28: FITTING THE GEAR BOX

STAGE 29: ATTACHING THE REAR CHASSIS

**STAGE 30: BUILDING THE REAR
DIFFERENTIAL CASE**

STAGE 31: ATTACHING THE REAR LEAF SPRING

**STAGE 32: FITTING THE REAR SUSPENSION
AND WHEELS**

General Motors Trademarks used under license by Premium & Collectibles Trading Co. Ltd on behalf of Agora Models.

**AGORA
MODELS®**

Advice from the experts

Spare screws are included with each part. Occasionally, you may be instructed to keep spare or unused screws for a later stage. Keep these spares in a safe place and label them correctly.

Please make sure you don't mix up the screws. They look quite similar, but the threads do vary slightly. Using the wrong screws may damage the parts.

When securing parts together using multiple screws, fit each screw loosely to ensure all the parts are correctly aligned before gently tightening them firmly, but not overtight, in the order in which you placed them.

The screwdriver can be magnetized by stroking it with a magnet (fridge magnet, etc.) enabling it to hold the screws and make assembly easier.

If a screw is tight going into a metal part, do not force it as you may shear the head off. Remove it and put a tiny smear of Vaseline, soap or light oil on the thread. That will lubricate it and make it easier to drive home.

During the course of this build, you will receive many pieces that you will assemble immediately – following the instructions in the corresponding stage – and other pieces that you should store safely to one side, for use in future assembly stages.

Left and Right! When building your Corvette, the left- or right-hand side refers to that side as if you are sitting in the car.



WARNING: Some parts are assembled using magnets. These magnets can cause serious injury if they are swallowed. Keep away from children. If you suspect a magnet has been swallowed, seek medical help straight away.

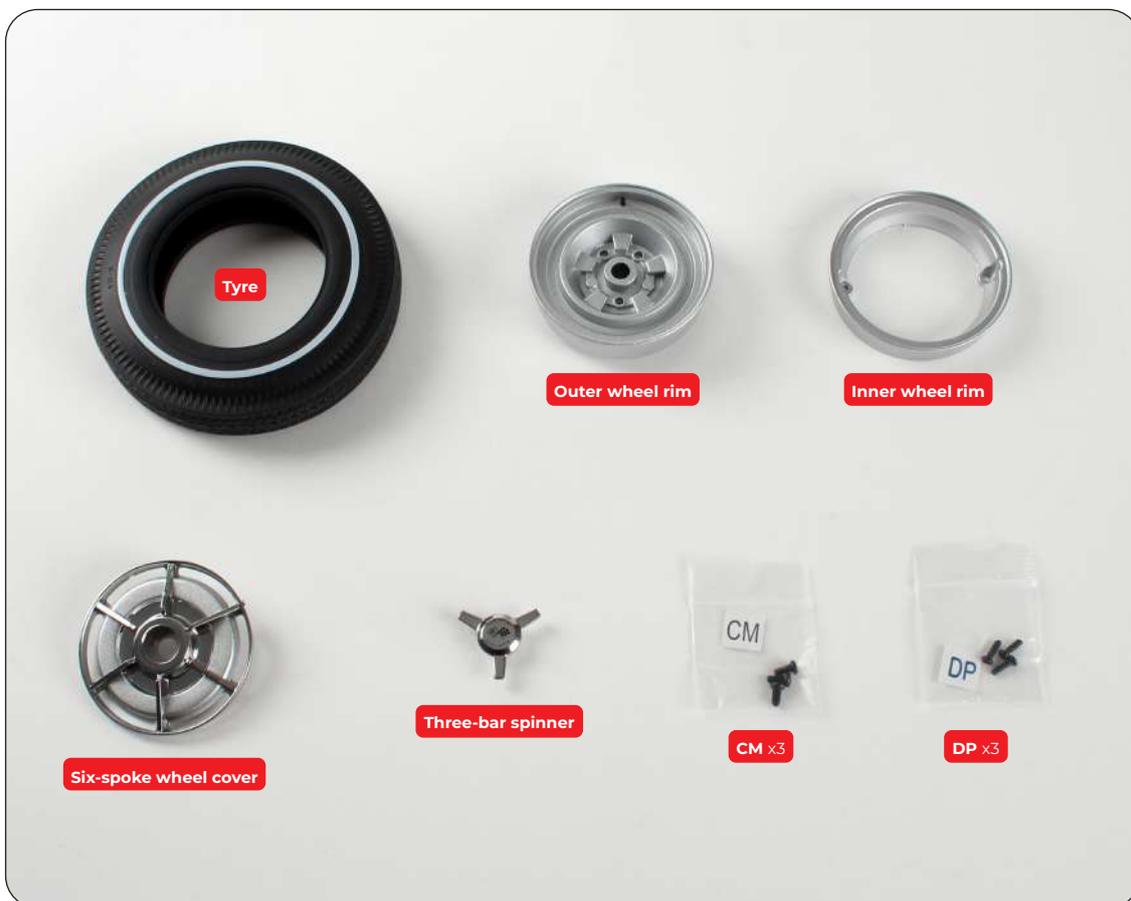
Stage 25: Assembling the Rear Left Wheel

In this stage you'll build the rear left wheel. The rear wheels will be fitted at the end of this pack.

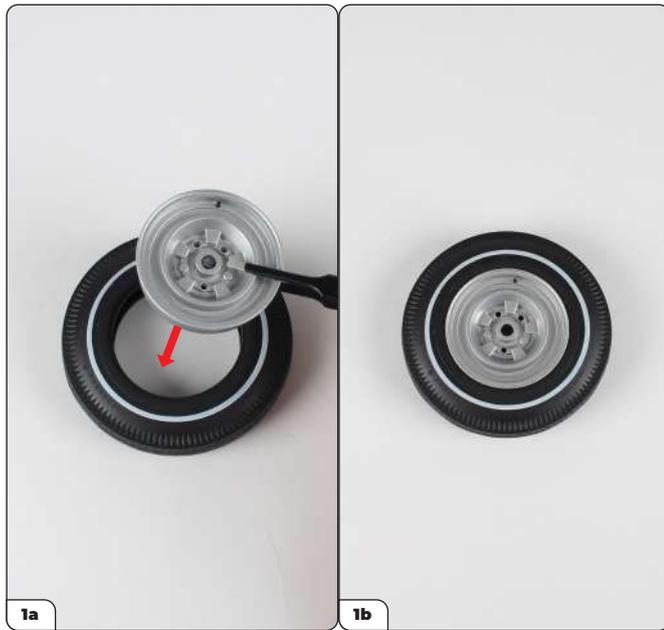


STAGE 25 PARTS LIST

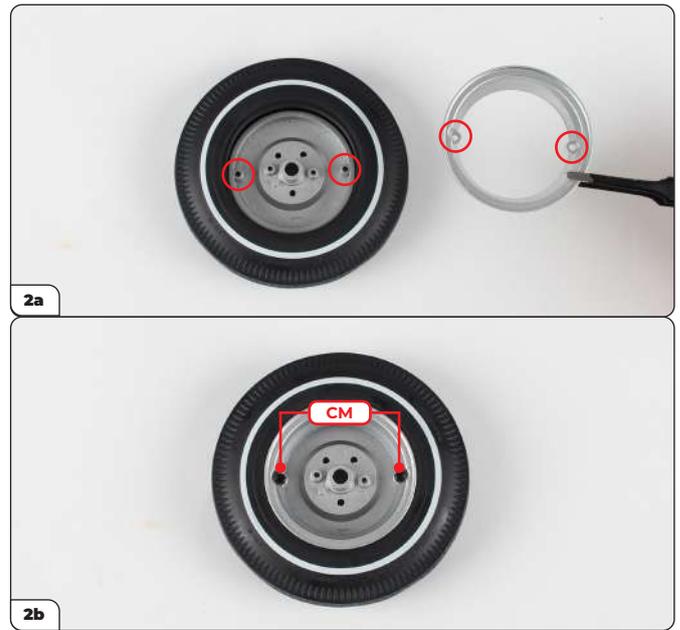
Name
Tyre
Outer wheel rim
Inner wheel rim
Six-spoke wheel cover
Three-bar spinner
CM screws x3
DP screws x3



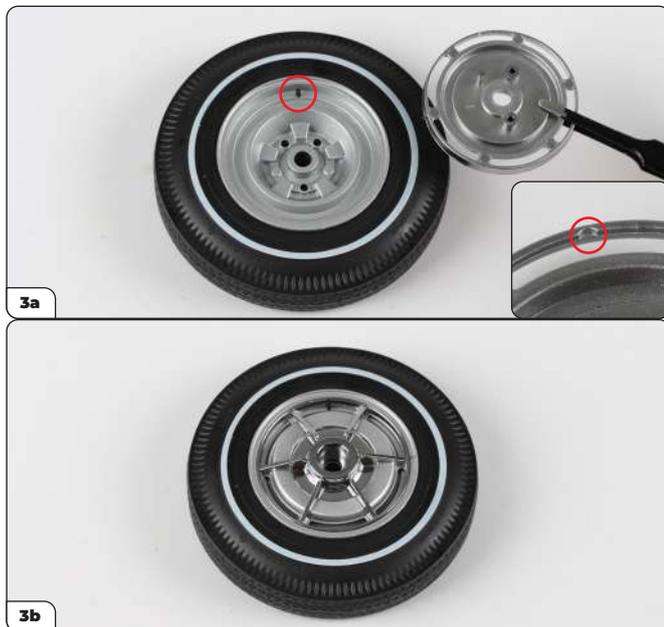
Stage 25: Assembling the Rear Left Wheel



Fit the outer wheel rim into the tyre (1a, arrow) until it fits flush (1b).



Turn over and fit the inner wheel rim onto the outer rim, aligning the holes (2a, circled). Secure using 2x CM screws (2b).

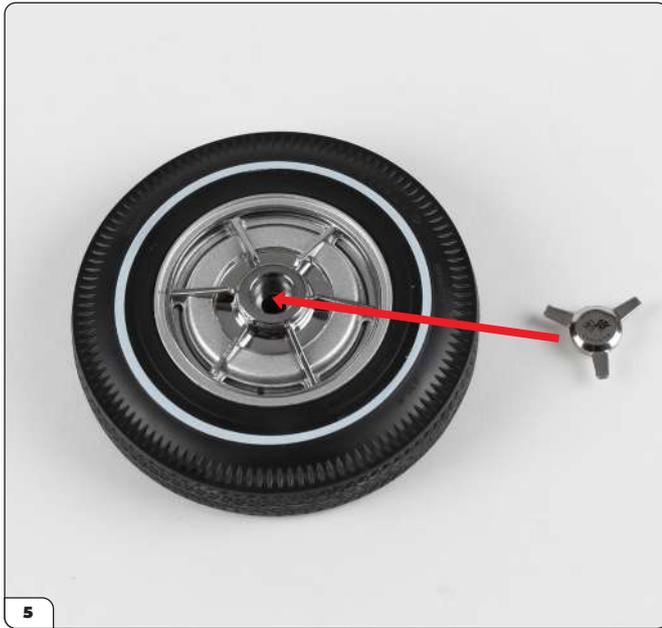


Turn the assembly back over and fit the six-spoke wheel cover in position, aligning the indent of the cover with the air valve (3a, circled).



Secure the wheel cover with 2x DP screws.

Stage 25: Assembling the Rear Left Wheel



Push the three-bar spinner into the wheel cover (arrow). Alternatively, you may wish to wait until the wheel has been mounted in stage 32.



Stage 26: Building the Rear Control Arms

In this stage you'll begin making the mounts for the rear wheels by building the control arms and fitting the brake drum covers.

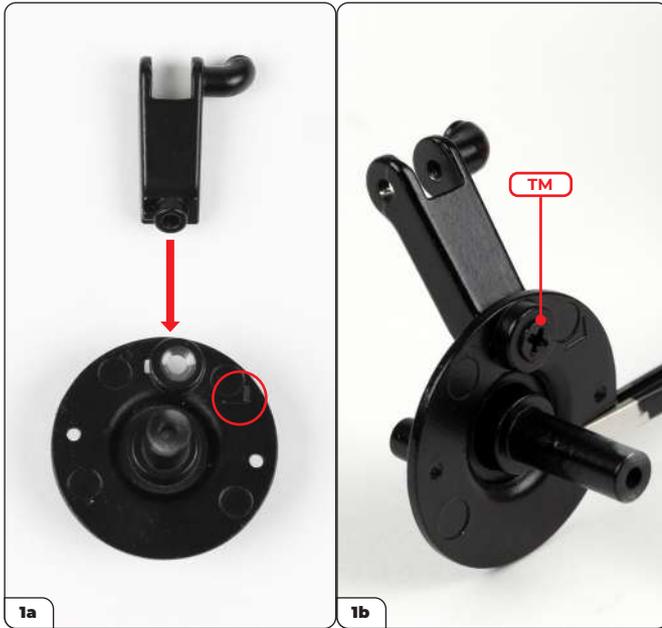


STAGE 26 PARTS LIST

Name
Rear left brake drum
Brake drum cover (L)
Rear left knuckle
Brake drum cover (R)
Rear right knuckle
Upper control arm (L)
Lower control arm (L)
Upper control arm (R)
Lower control arm (R)
Transmission shaft connector (x2)
AM screws (x5)
RM screws (x5)
TM screws (x3)



Stage 26: Building the Rear Control Arms



Fit the left lower control arm into the rear left knuckle, marked with an 'L' (1a, circled). Secure using a TM screw (1b).



Take the left upper control arm (2a, marked with an 'L', circled) and a transmission shaft connector. Note it has a D-shaped post (2a, arrow). Fit the connector into the control arm (2b).



While holding the connector in place (3a), turn the assembly over and secure using an RM screw (3b).



Align the left knuckle and upper control arm as shown (4a) then push screw posts of the knuckle into the holes of the arm (4b).

Stage 26: Building the Rear Control Arms



Fix the parts together using 2x AM screws.



Place the left brake drum cover, marked with an 'L' (circled, inset), over the knuckle as shown.



The brake drum cover will be loosely fitted for now, take care not to lose it during the assembly.



Fit the right lower control arm into the rear right knuckle, marked with an 'R' (8a, circled). Secure using a TM screw (8b).

Stage 26: Building the Rear Control Arms



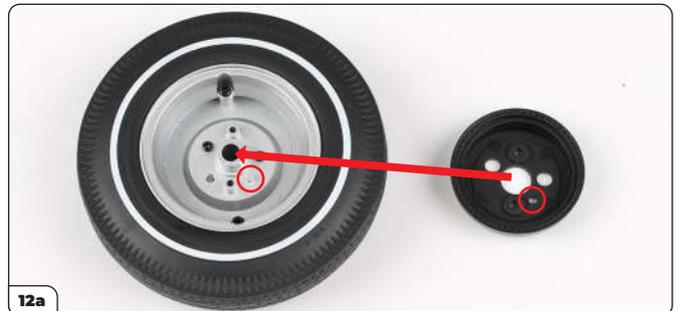
Fit the other transmission shaft connector into the right upper control arm, marked with an 'R' (9a). Secure using an RM screw (9b).



Fit the right knuckle into the upper control arm (10a) then secure using 2x AM screws (10b).



Place the right brake drum cover, marked with an 'R', over the knuckle.



Retrieve the wheel assembled in stage 25. Fit the rear left brake drum onto the outer wheel rim (12a, arrow), using the locking pin and hole to align the parts correctly (12a, circled). Secure using 2x RM screws (12b).

Stage 26: Building the Rear Control Arms

STAGE COMPLETE



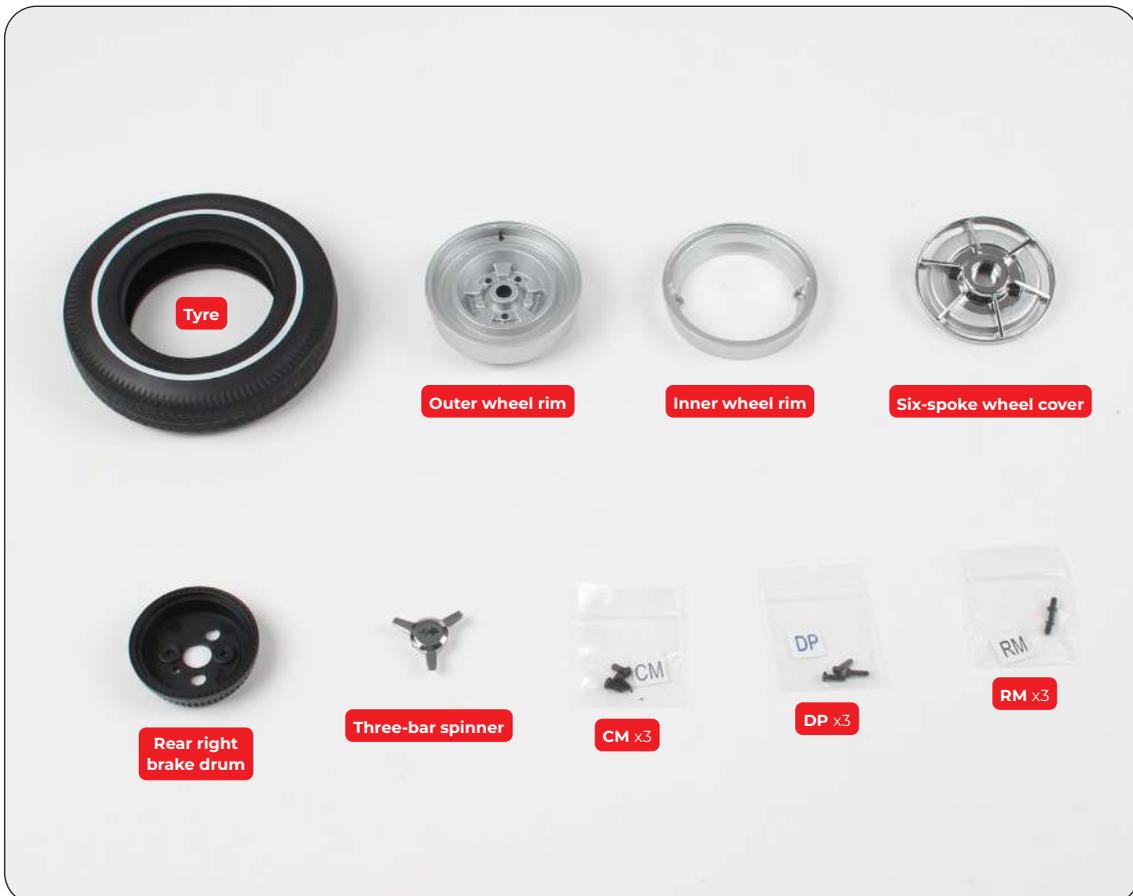
Stage 27: Assembling the Rear Right Wheel

In this stage you'll build the rear right wheel. The rear wheels will be fitted at the end of this pack.

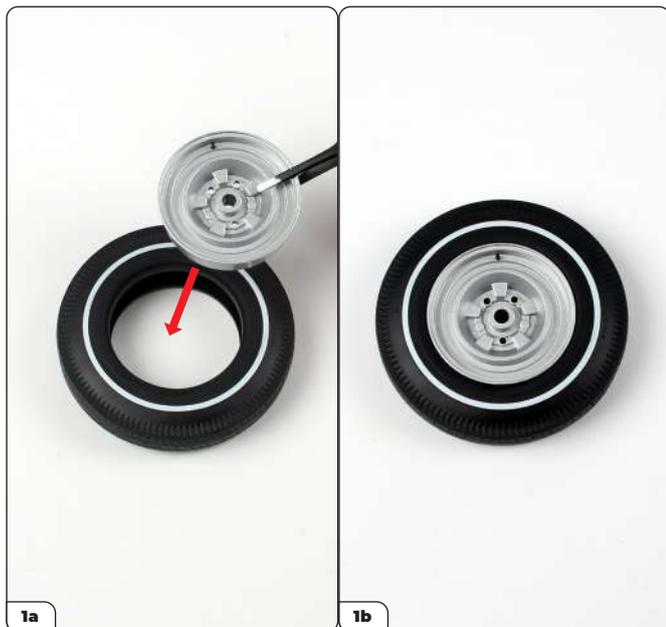


STAGE 27 PARTS LIST

Name
Tyre
Outer wheel rim
Inner wheel rim
Six-spoke wheel cover
Rear right brake drum
Three-bar spinner
CM screws x3
DP screws x3
RM screws x3



Stage 27: Assembling the Rear Right Wheel



Fit the outer wheel rim into the tyre (1a, arrow) until it fits flush (1b).



Turn over and fit the inner wheel rim onto the outer rim, aligning the holes (circled).



Secure using 2x CM screws.



Turn the assembly back over and fit the six-spoke wheel cover in position, aligning the indent of the cover with the air valve (circled).

Stage 27: Assembling the Rear Right Wheel



Secure the wheel cover with 2x DP screws.



Fit the rear right brake drum onto the outer wheel rim using the locking pin and hole to align the parts correctly.



Secure using 2x RM screws.



Push the three-bar spinner into the wheel cover, or wait until the wheel has been mounted in stage 32.

Stage 27: Assembling the Rear Right Wheel

STAGE COMPLETE



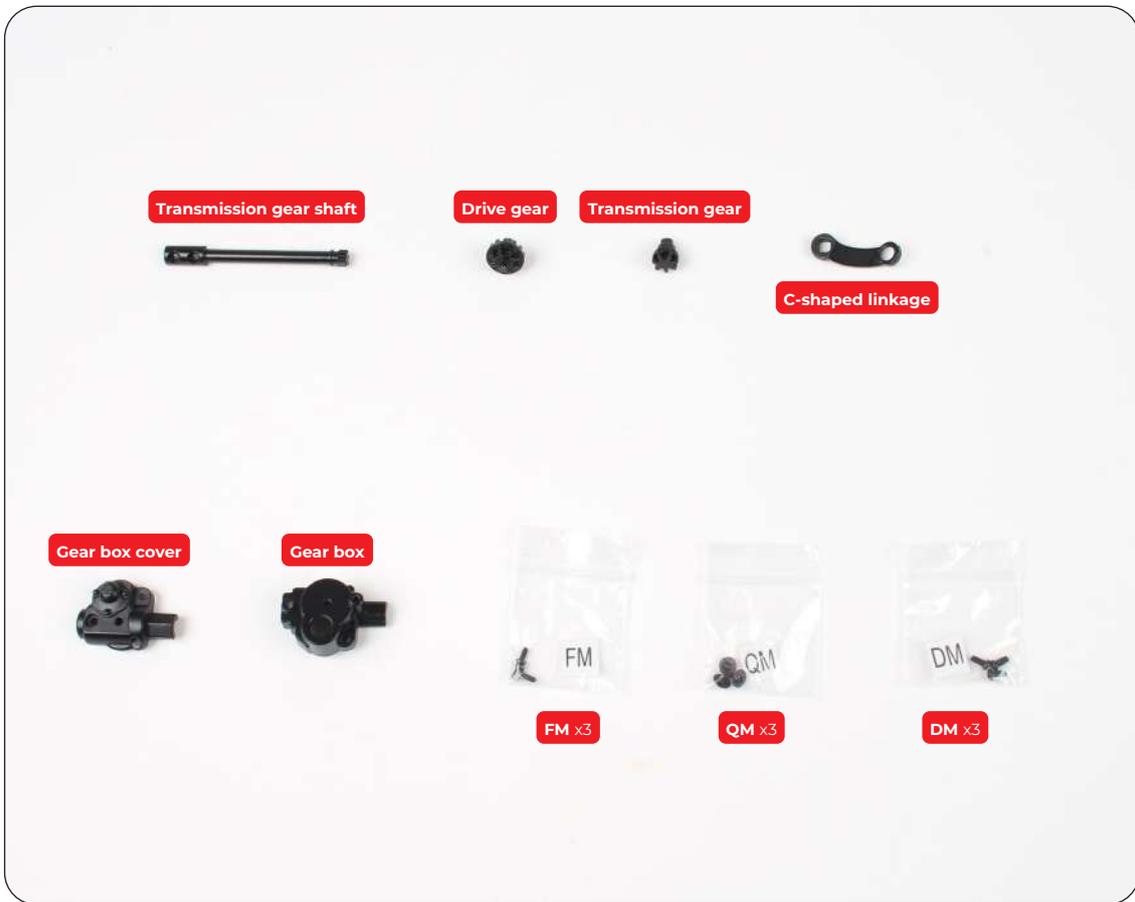
Stage 28: Fitting the Gear Box

You'll now build the gear box, fitting the gears and transmission shaft that works the steering of your model.



STAGE 28 PARTS LIST

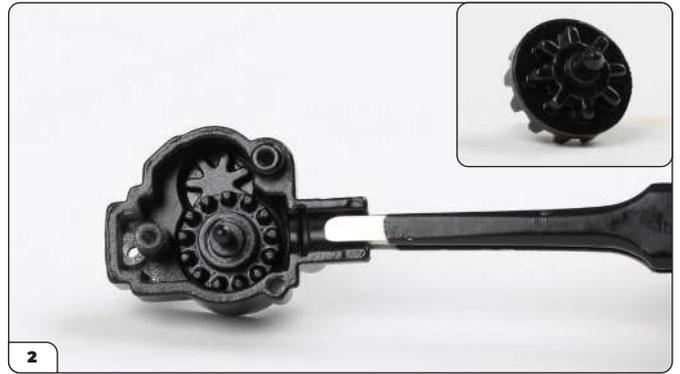
Name
Transmission gear shaft
Drive gear
Transmission gear
C-shaped linkage
Gear box cover
Gear box
FM screws x3
QM screws x3
DM screws x3



Stage 28: Fitting the Gear Box



Place the transmission gear inside the gear box as shown (arrow).



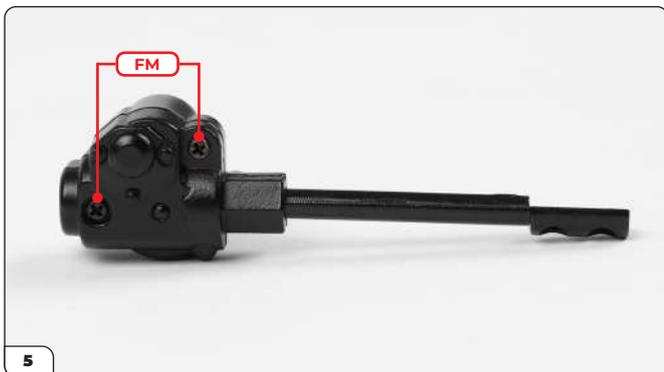
Fit the drive gear in place so that the side with eight teeth (inset) connects with the transmission gear.



Place the transmission gear shaft into the gear box so that the end with teeth connects with the drive gear (arrow).



Twist the shaft so that the flat side of the other end is facing the direction shown by the arrow. The gears should turn when the shaft is twisted.



Fix the gear box cover over the gear box using 2x FM screws.

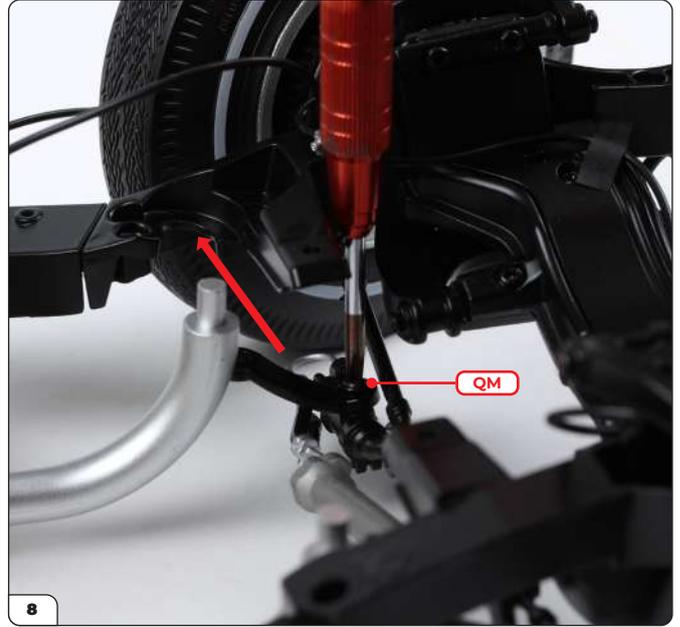


Take the C-shaped linkage and note it has a square hole (arrow) and a round hole.

Stage 28: Fitting the Gear Box



The round hole of the linkage fits onto the post of the central steering bar (circled).



Attach the linkage to the post using a QM screw, making sure not to overtighten it, so that the other end of the linkage rises towards the recessed area in the chassis (arrow).



Place the gear box assembly into the recessed area as shown.



Carefully turn the assembly over and secure the gear box using a DM screw.

Stage 28: Fitting the Gear Box



Fit the square hole of the linkage onto the gear box (arrow).



Secure using a QM screw.

STAGE COMPLETE



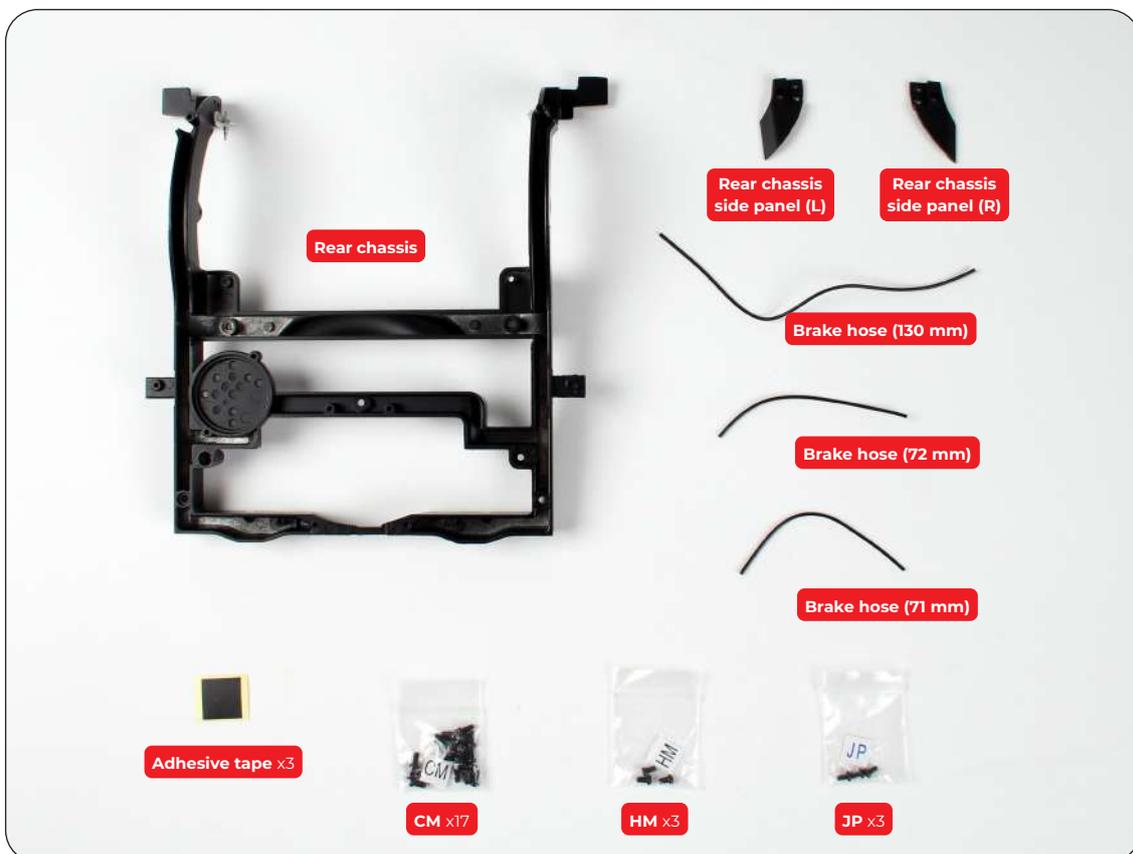
Stage 29: Attaching the Rear Chassis

Next you'll assemble the rear chassis then attach it onto the main assembly. You'll also start to connect the brake hoses.



STAGE 29 PARTS LIST

Name
Rear chassis
Rear chassis side panel (L)
Rear chassis side panel (R)
Brake hose (130 mm)
Brake hose (72 mm)
Brake hose (71 mm)
Adhesive tape x3
CM screws x17
HM screws x3
JP screws x3



Stage 29: Attaching the Rear Chassis



Align the left and right chassis side panels (marked 'L' and 'R', circled) with the rear chassis as shown.

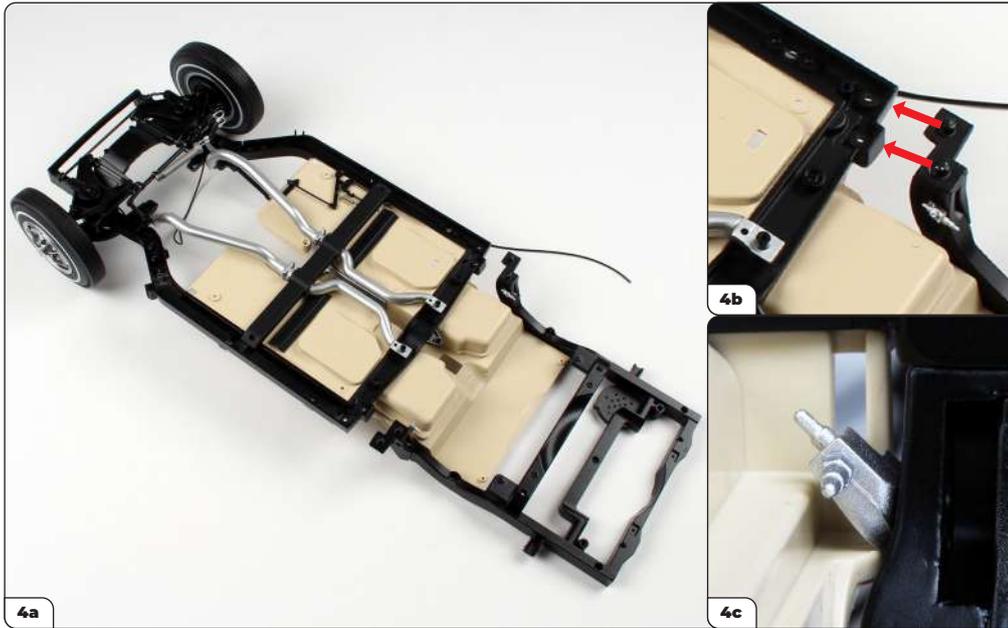


Position the right side panel onto the rear chassis so that the screw holes are aligned (circled).



Secure the right panel using 2x CM screws (3a). Position the left panel and secure using 2x CM screws (3b).

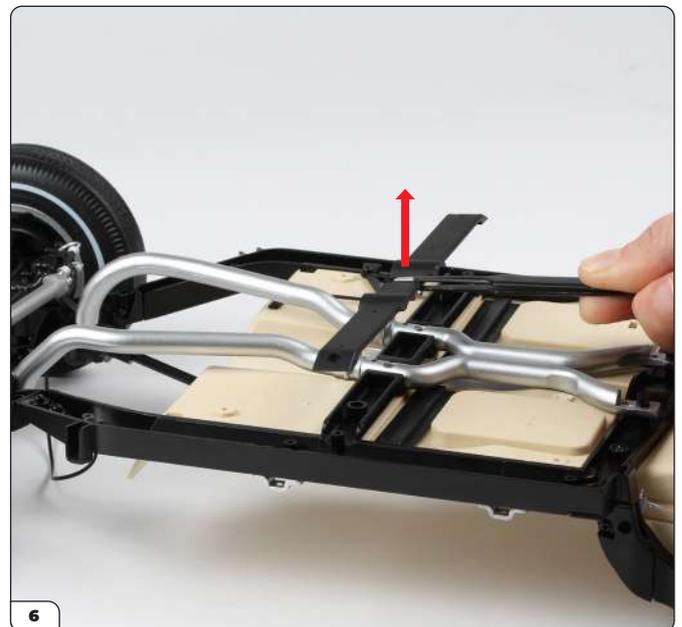
Stage 29: Attaching the Rear Chassis



Align the rear chassis with the main assembly as shown (4a). The posts at the ends of the rear chassis fit under the screw holes of the assembly (4b, arrows). Fit the rear chassis to the assembly, ensuring the silver hose connectors do not catch (4c).

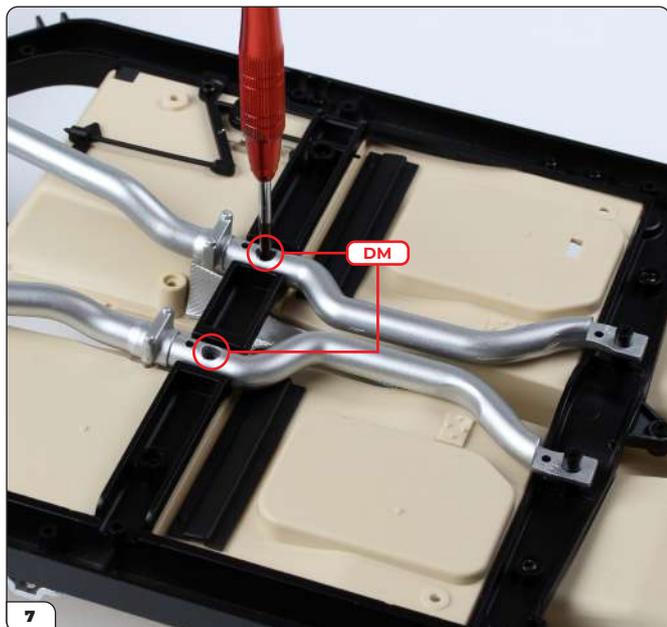


Secure the rear chassis using 4x CM screws.



Carefully remove the cross beam cover.

Stage 29: Attaching the Rear Chassis



7 Remove the two DM screws holding the exhaust pipes and set them aside safely.



8 Gently lift the ends of the exhaust pipes from the chassis frame's screw posts (arrows).

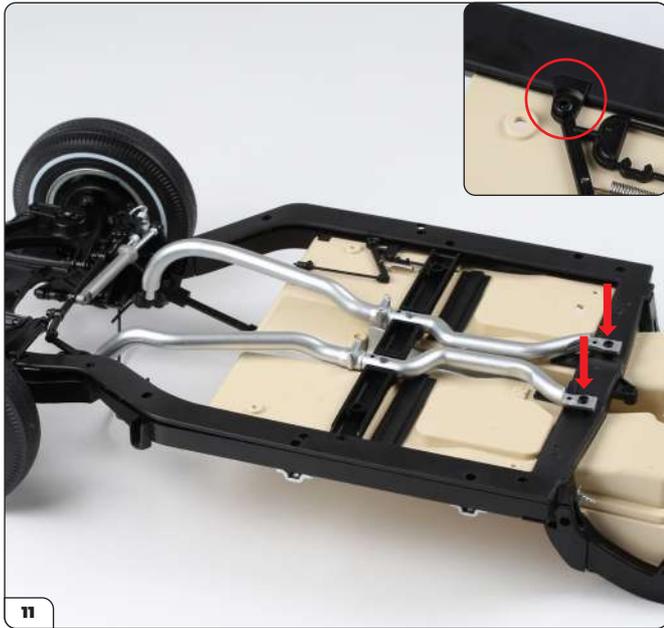


9 Align the chassis cover assembly (stage 20) with the frame as shown.

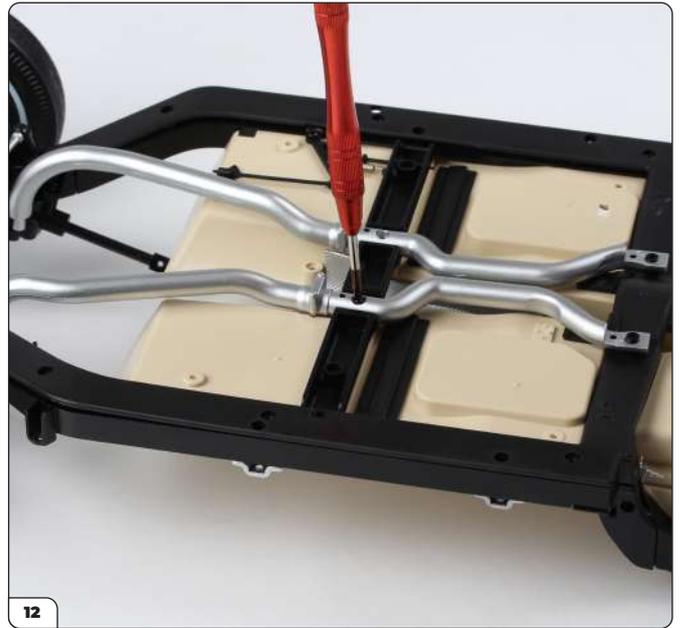


10 Push the cylinder bracket into the hole of the cylinder (arrow).

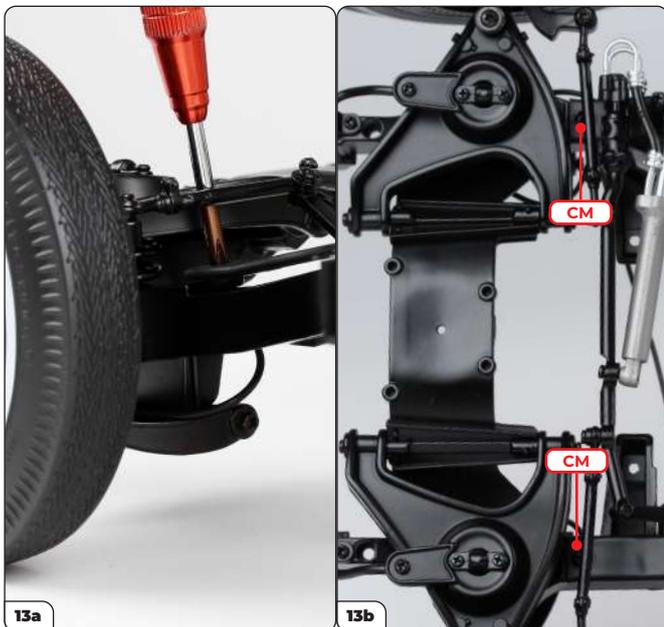
Stage 29: Attaching the Rear Chassis



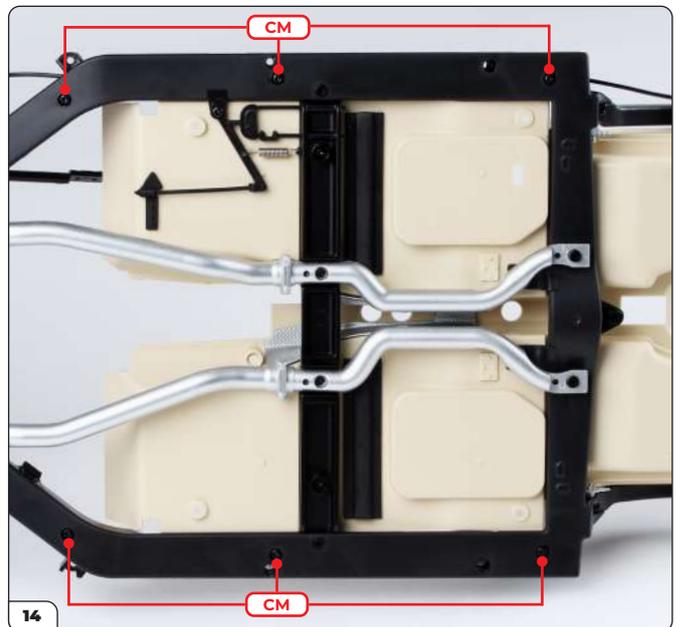
Fit the chassis cover in place as shown. Take care when fitting the cover under the handbrake cable mount (inset, circled). Once in place, fit the ends of the exhaust pipe back onto the screw posts (arrows).



Resecure the exhaust pipes using the DM screws removed in step 7.



Start to secure the chassis cover using 2x CM screws, fitting the screwdriver between the control arm and steering linkage (13a and 13b).

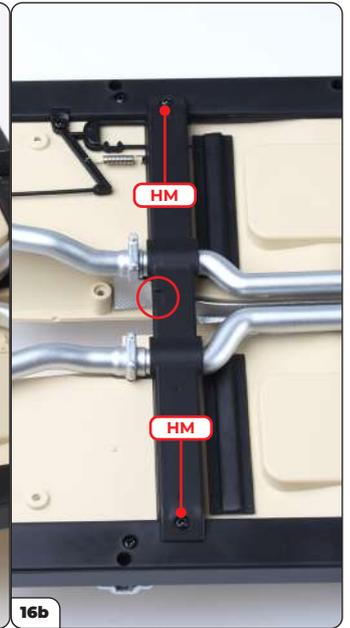
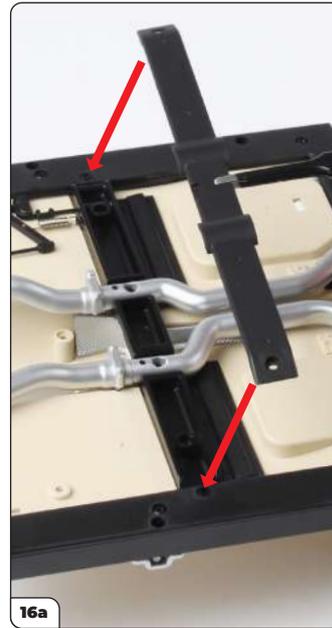


Secure the rest of the cover using 6x CM screws.

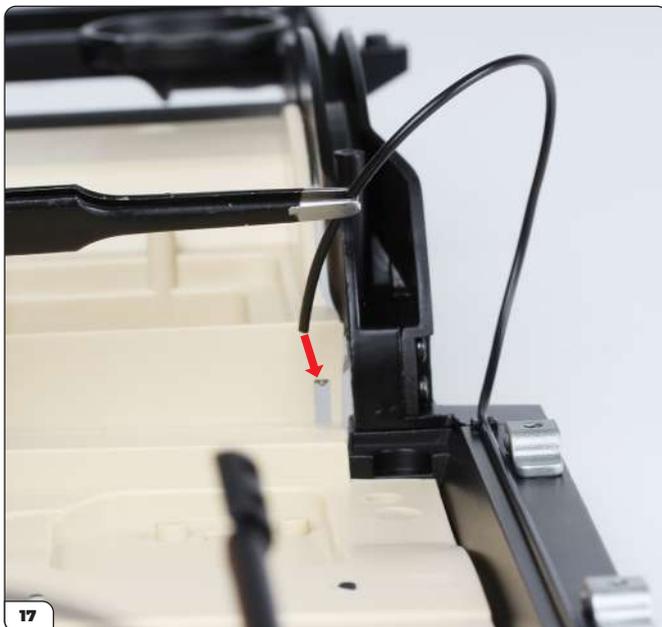
Stage 29: Attaching the Rear Chassis



Drive 2x JP screws through the holes in the rear chassis into the cockpit floor.



Replace the cross beam cover (16a) and secure using 2x HM screws. Make sure the notch is oriented as shown (16b, circled).



Guide the end of the main brake hose through the opening in the left-hand side of the cockpit floor (arrow).



Push the end of the hose onto the silver hose connector pin (18a, arrow). Then adjust the cable until it runs flat along the chassis as shown (18b).

Stage 29: Attaching the Rear Chassis



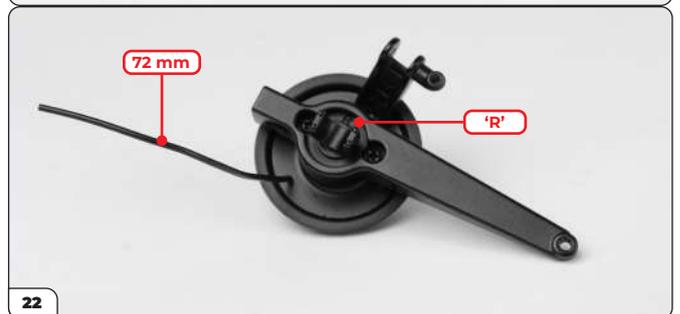
Plug one end of the long brake hose (130 mm) onto the top pin of the right-hand connector (arrow).



Run the cable under the protrusion of the chassis frame (circled) and plug the other end onto the top pin of the left-hand connector (arrow).



Use the pieces of adhesive tape to secure the main brake hose to the chassis (arrows).



Plug the shortest brake hose (71 mm) onto the pin of the left knuckle and the slightly longer brake hose (72 mm) onto right knuckle.

Stage 29: Attaching the Rear Chassis

STAGE COMPLETE



Stage 30: Building the Rear Differential Case

In this stage you'll start assembly on the rear differential, building the case and adding support.

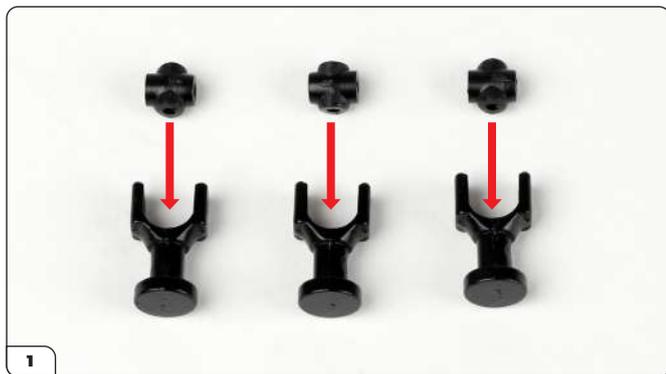


STAGE 30 PARTS LIST

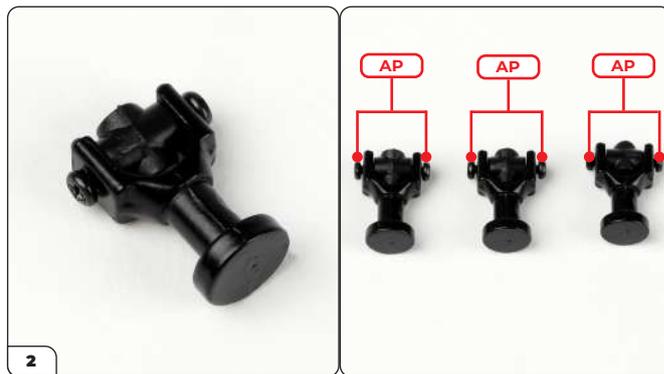
Name
Rear differential case (upper)
Rear differential case (lower)
Connecting rod joint x3
Universal joint x3
Support bracket
Cross member
Bracket
Fixing post
AP screws x10
DM screws x14



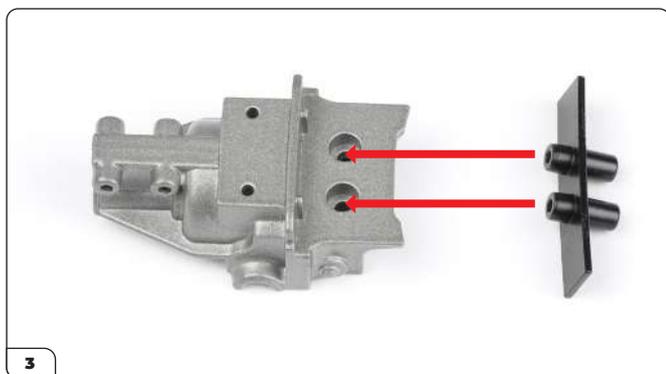
Stage 30: Building the Rear Differential Case



Fit the three universal joints into the connecting rod joints (arrows). Orient the universal joints the same way as shown.



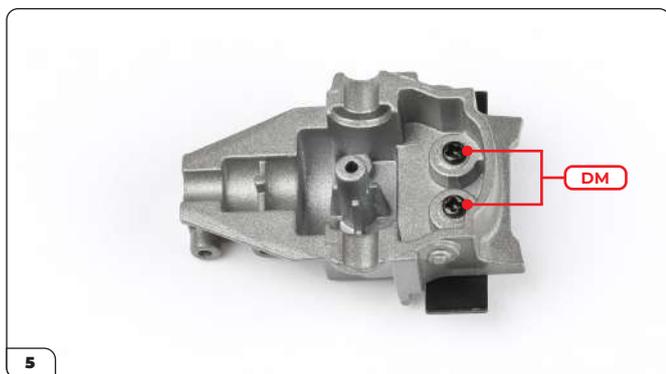
Secure the universal joint to the rod using 2x AP screws. Repeat for all three joints.



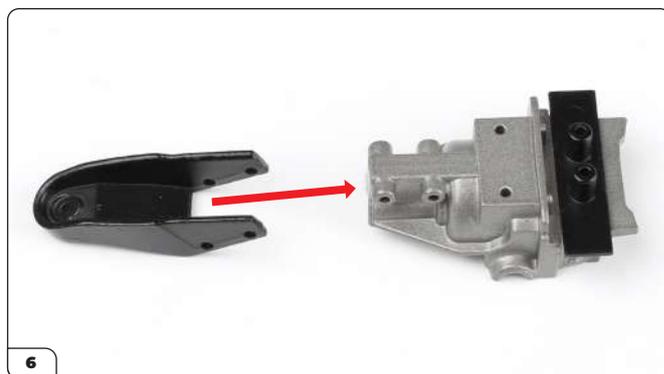
Align the fixing post and the lower rear differential case as shown. Note the shorter posts fit into the holes (arrows).



Position the fixing post in the case.

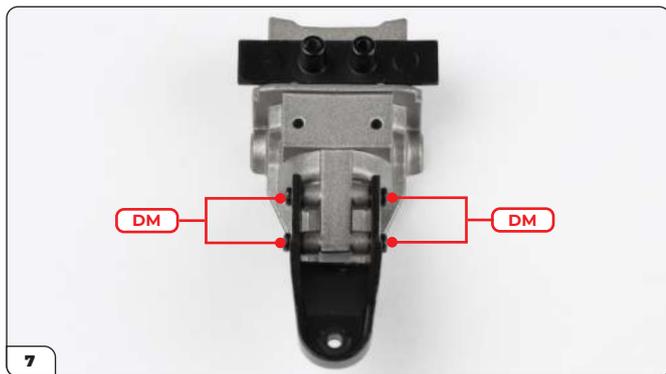


Flip the case over and secure the parts using 2x DM screws.

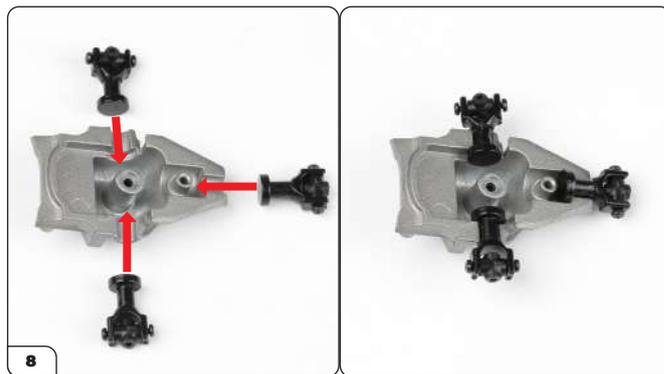


Align the support bracket with the case as shown.

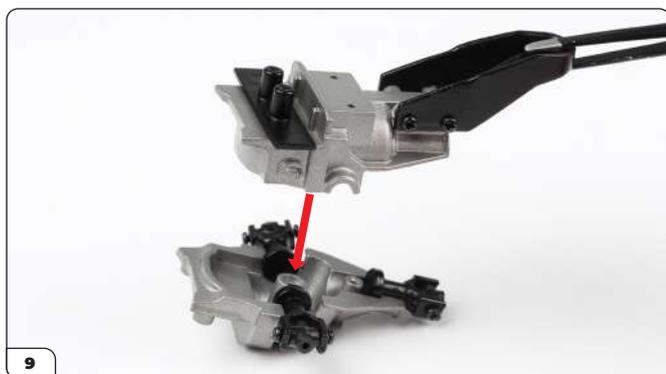
Stage 30: Building the Rear Differential Case



Fix the support bracket using 4x DM screws.



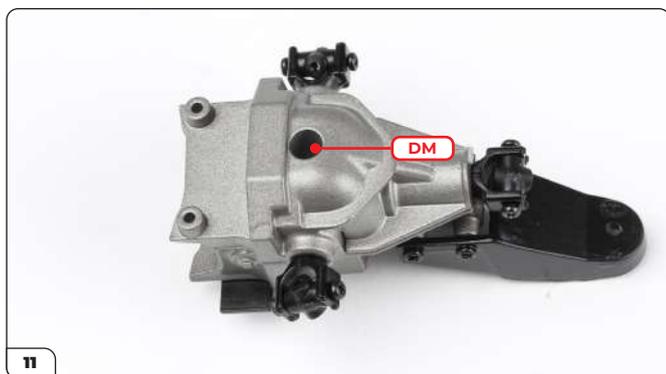
Fit the connecting rod joints into the recesses of the upper rear differential case.



Align the upper and lower parts of the case together as shown.



Fit the two halves together.

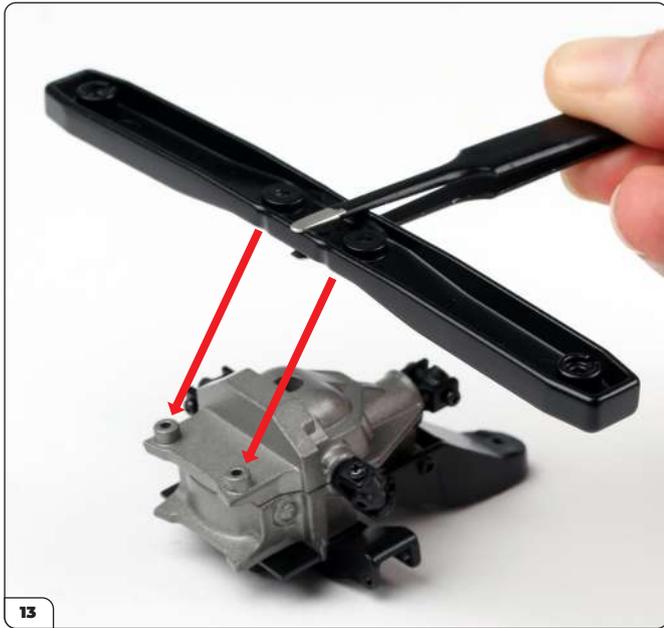


Flip the assembly over and secure using a DM screw.



Position the bracket over the two holes in the lower case and secure using 2x DM screws.

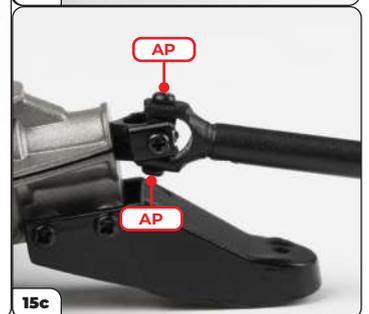
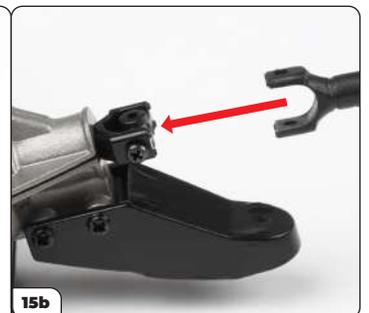
Stage 30: Building the Rear Differential Case



Position the cross member onto the upper case.



Secure using 2x DM screws.



Align the transmission shaft (stage 23) with the rear differential case (15a). Fit the connector onto the central joint (15b, arrow) and secure using 2x AP screws (15c).

Stage 30: Building the Rear Differential Case

STAGE COMPLETE



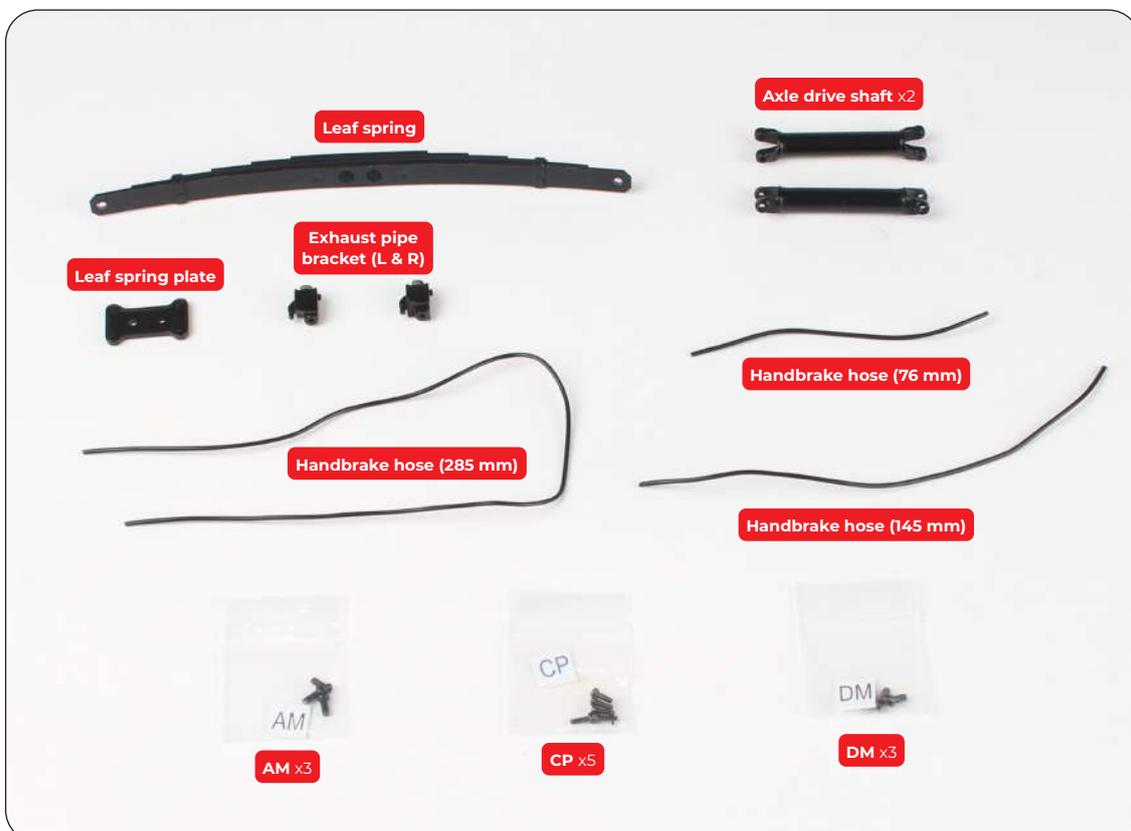
Stage 31: Attaching the Rear Leaf Spring

In this stage you'll fit the rear leaf spring suspension to the differential case. You'll also add the handbrake hoses to the main assembly.



STAGE 31 PARTS LIST

Name
Leaf spring
Axle drive shaft x2
Leaf spring plate
Exhaust pipe bracket (L & R)
Handbrake hose (285 mm)
Handbrake hose (76 mm)
Handbrake hose (145 mm)
AM screws x3
CP screws x5
DM screws x3



Stage 31: Attaching the Rear Leaf Spring



Position the end of an axle drive shaft onto the rear differential's joint as shown (arrow).



Secure using 2x CP screws.



Fit the other axle on the remaining joint (arrow).



Secure using 2x CP screws.

Stage 31: Attaching the Rear Leaf Spring



Fit the leaf spring in the orientation shown onto the fixing post (arrows).



The leaf spring should curve upwards once in place.



Place the leaf spring plate in position (arrows), ensuring the side with the bolts (inset, circled) is facing up.

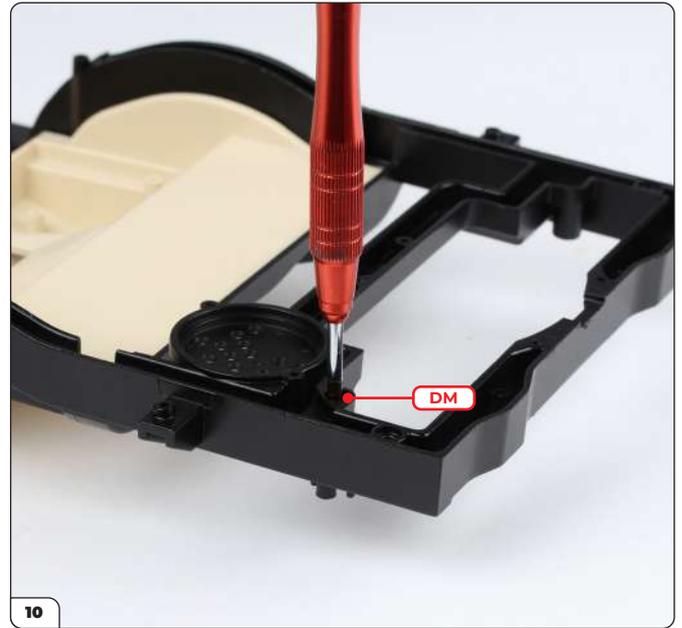


Secure using 2x AM screws.

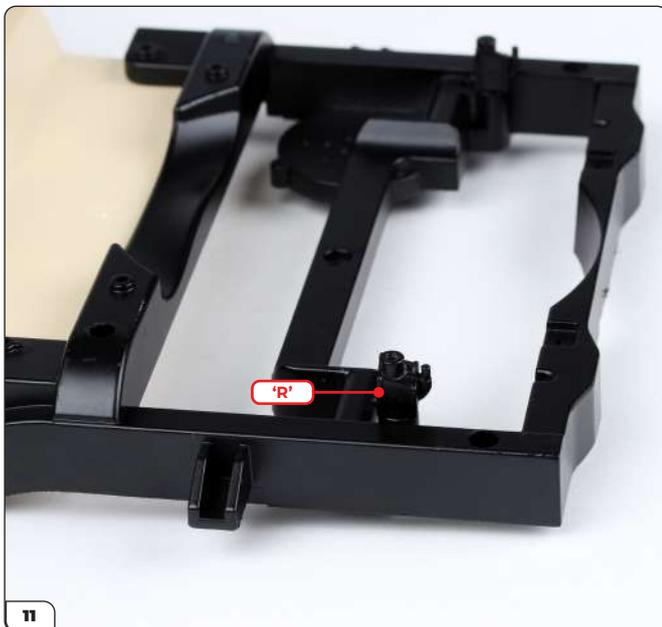
Stage 31: Attaching the Rear Leaf Spring



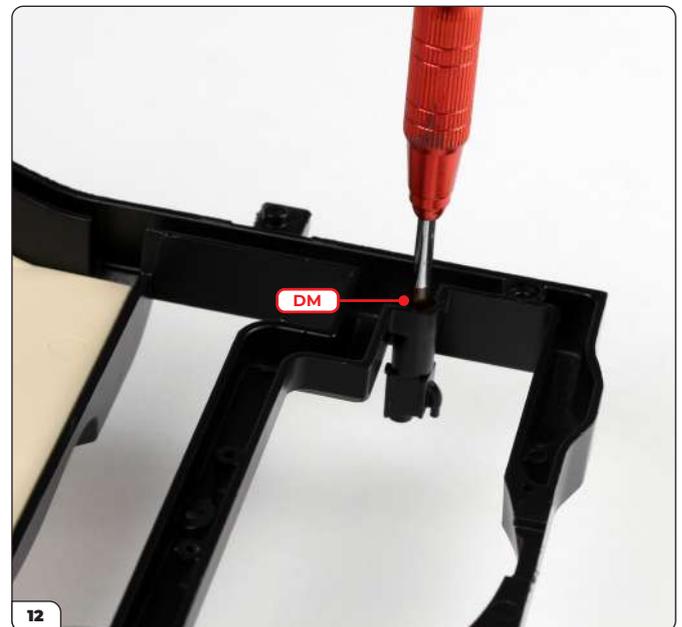
The exhaust pipe brackets are marked with 'L' and 'R' (inset, circled). Fit the left 'L' bracket onto the rear chassis (arrow).



Flip the assembly and secure the bracket with a DM screw.

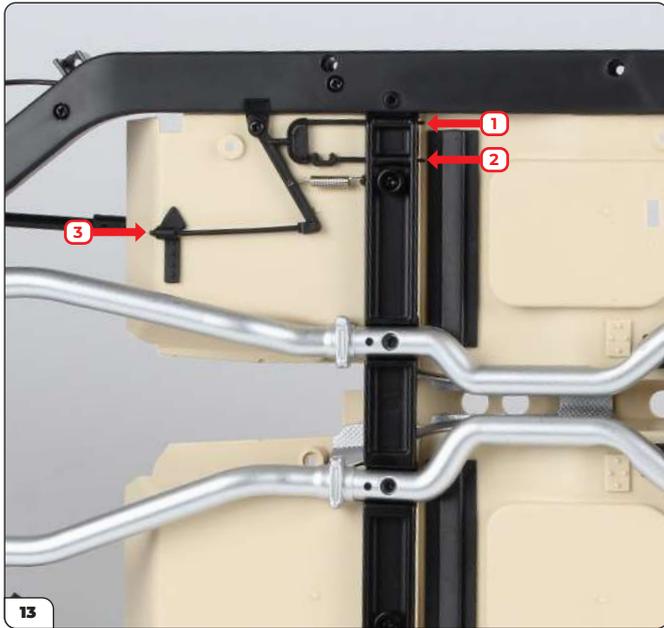


Fit the right 'R' bracket as shown.



Flip the assembly and secure the bracket with a DM screw.

Stage 31: Attaching the Rear Leaf Spring



The three handbrake hoses plug onto the pins of the handbrake cable (arrows), indicated as 1, 2 and 3.



Plug the 145 mm long hose onto pin 1.



Plug the 285 mm long hose onto pin 2.



Plug the 76 mm long hose onto pin 3.

Stage 31: Attaching the Rear Leaf Spring

STAGE COMPLETE



Stage 32: Fitting the Rear Suspension and Wheels

In the last stage for this pack, you'll finish assembling the rear suspension then mount it onto your model. You'll then connect the brake hoses and fit the rear wheels.



STAGE 32 PARTS LIST

Name	Name
Lower swing bar x2	Hex nut x6
Rear damper rod x2	AP screws x5
Rear damper cylinder x2	AM screws x4
Spring x2	CP screws x5
Universal joint x2	CM screws x5
Washer (thick) x2	GP screws x3
Washer (thin) x2	OM screws x3
Strut rod x2	PM screw x3
Spanner	SM screw x3



Stage 32: Fitting the Rear Suspension and Wheels



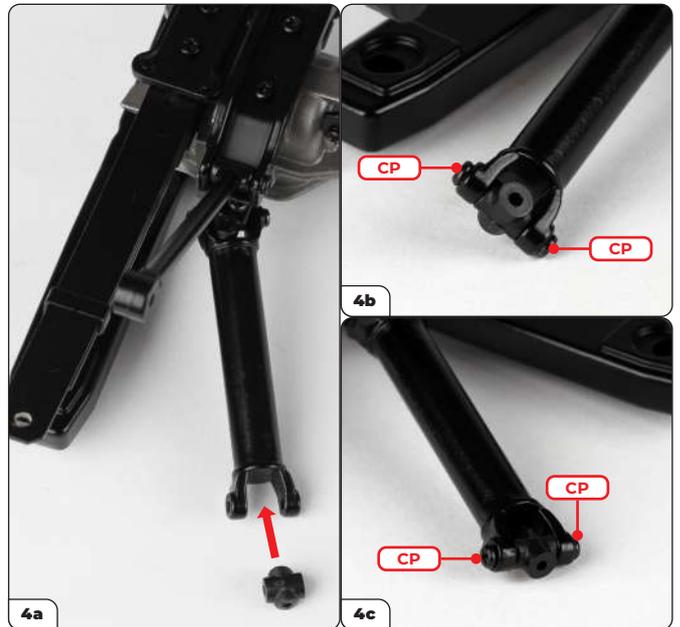
Fit the smaller end of a lower swing bar into the bracket of the rear differential (arrow).



Secure using a PM screw.

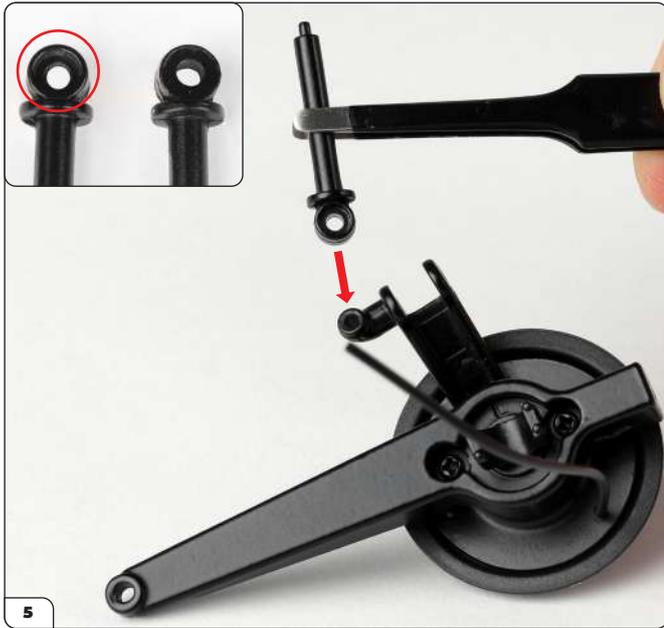


Fit the other lower swing bar and secure using a PM screw.



Fit a universal joint into the end of the axle drive shaft (4a, arrow) then secure using 2x CP screws (4b). Fit the other universal joint into the remaining axle and secure with 2x CP screws (4c).

Stage 32: Fitting the Rear Suspension and Wheels



Position a rear damper rod over the lower control arm of the left knuckle (arrow). Note that the rod has a recess on one side (inset, circled) which should face out from the control arm.



Drive an AM screw into the recess of the rod to secure.



Secure the other rear damper rod to the right assembly in the same way with an AM screw.



Align the left knuckle with the axle drive shaft on the differential's left side as shown (arrow).

Stage 32: Fitting the Rear Suspension and Wheels



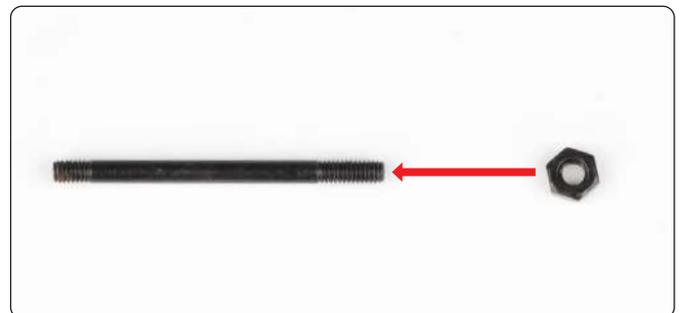
Fit the knuckle onto the axle and secure using 2x AP screws.



Attach the right knuckle in the same way using 2x AP screws.



Fit the large ends of the lower swing bars into the lower control arms and secure each using an OM screw.



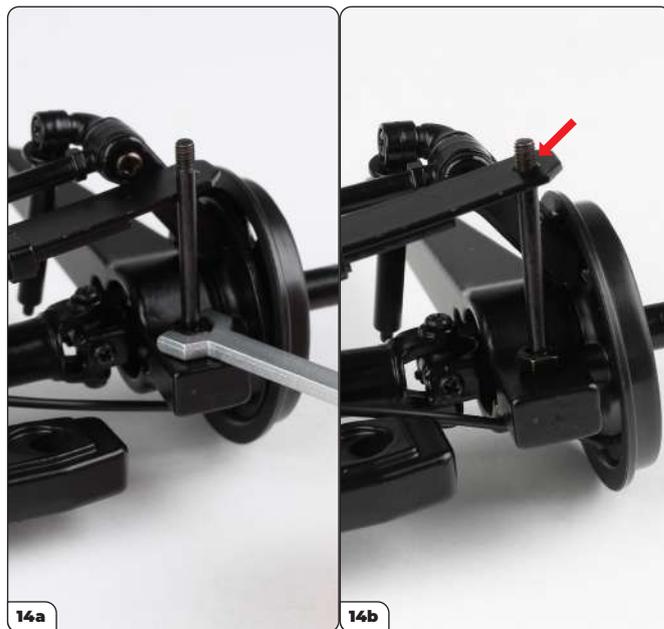
Screw a hex nut onto the longer threaded end of a strut rod as shown.



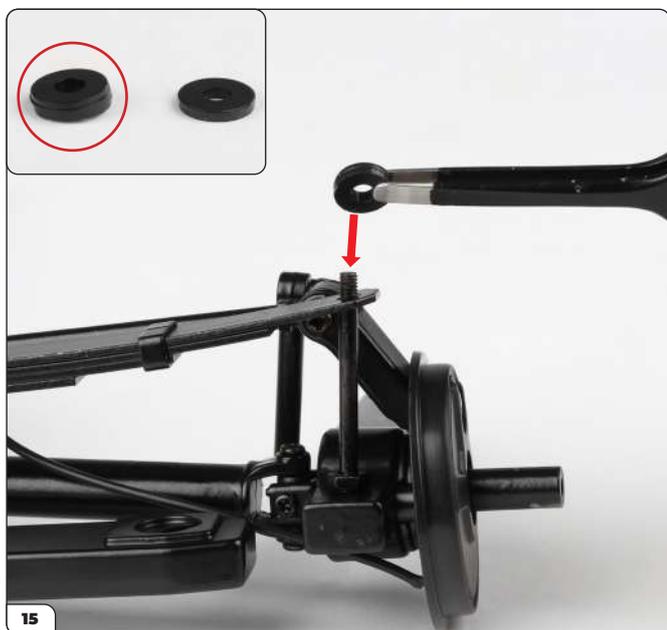
Stage 32: Fitting the Rear Suspension and Wheels



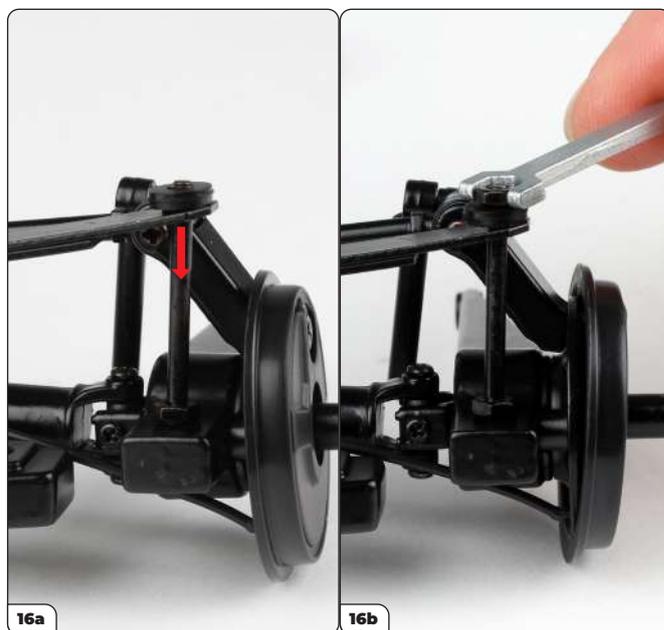
Flip the assembly over and place a hex nut into the left upper control arm (13a, arrow). Screw the long threaded end of the strut rod into the placed hex nut from underneath (13b, arrow) until the tip of the rod is flush with the nut.



Flip the assembly and tighten the hex nut fitted in step 12 (using the spanner supplied) to secure the strut rod (14a). Fit the end of the leaf spring over the short threaded end of the rod (14b, arrow).

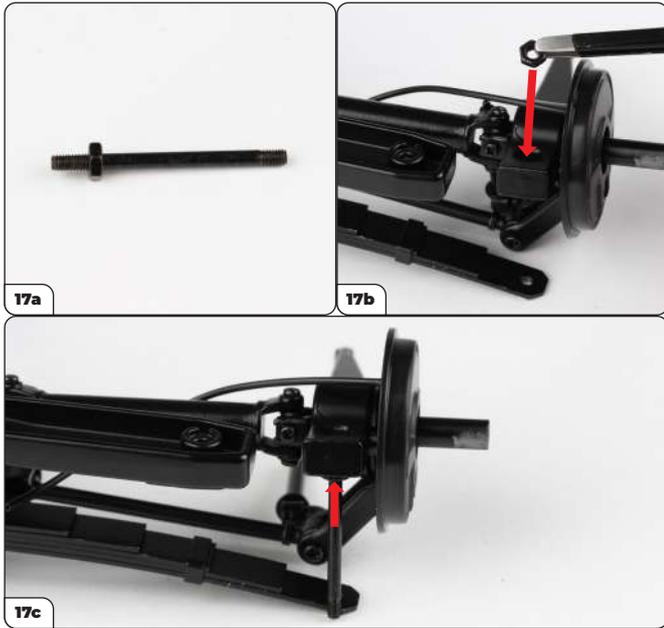


Place a thick washer (inset, circled) over the short rod end (arrow).

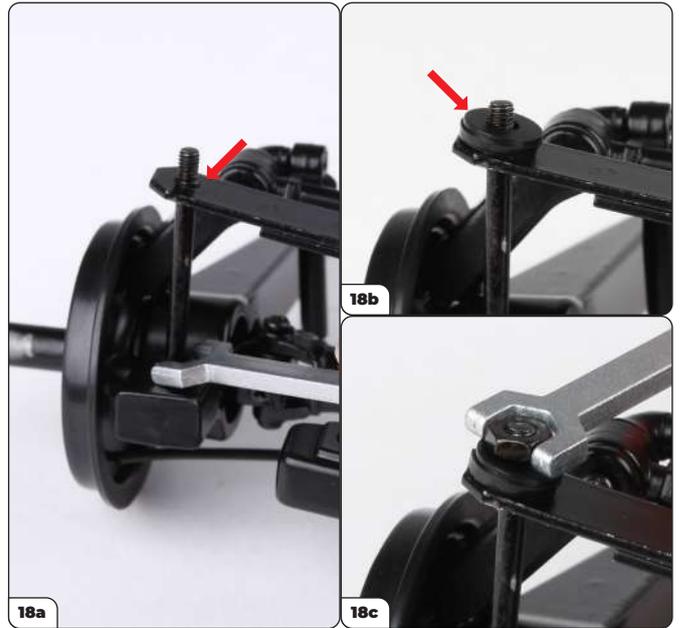


Push the washer and leaf spring down onto the rod (16a, arrow) and tighten a hex nut onto the short end until the tip of the rod is flush with the nut as shown (16b).

Stage 32: Fitting the Rear Suspension and Wheels



Fit the other strut rod to the right side in the same way. Screw a hex nut onto the long thread (17a), then place a hex nut in the hole of the upper control arm (17b). Screw the strut rod through from the other side (17c).



Tighten the hex nut to secure the rod and fit the end of the leaf spring (18a) then place a thick washer onto the rod (18b). Screw a hex nut on top until flush with the tip (18c).

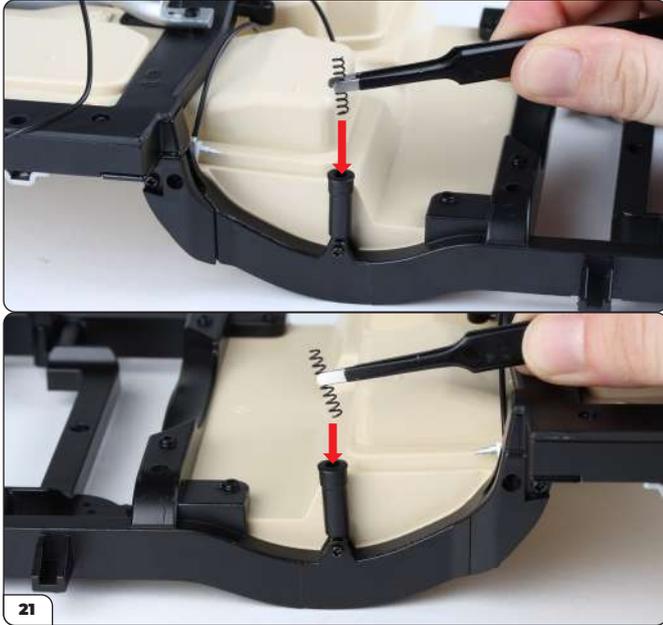


Fit a rear damper cylinder into the rear chassis as shown (arrow).



Secure the cylinder with a GP screw (20a). Fit the remaining cylinder to the other side and secure with a GP screw (20b).

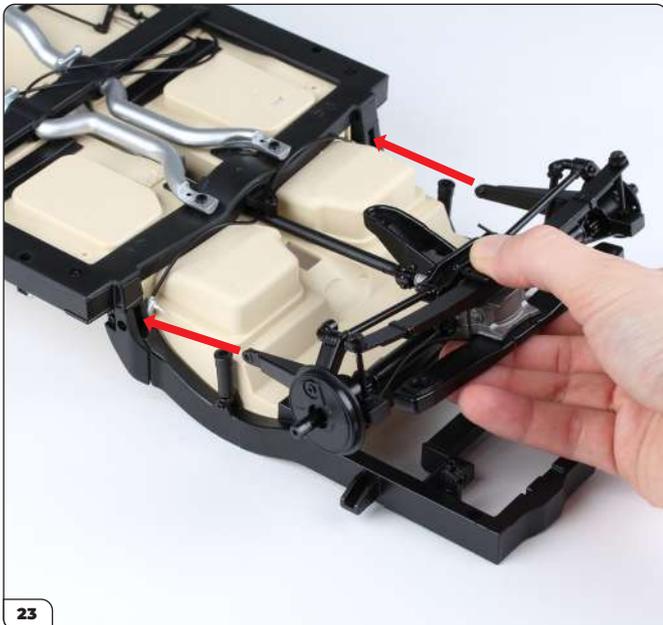
Stage 32: Fitting the Rear Suspension and Wheels



Place the two springs inside the cylinders as shown (arrows).



Align the rear suspension assembly with the rear chassis as shown. Fit the end of the transmission shaft into the central channel in the cockpit floor (arrow).



Continue to move the transmission shaft through the central channel, while guiding the upper control arms towards the openings of the rear chassis (arrows).



As you fit the assembly, guide the damper rods into the cylinders (circled).

Stage 32: Fitting the Rear Suspension and Wheels

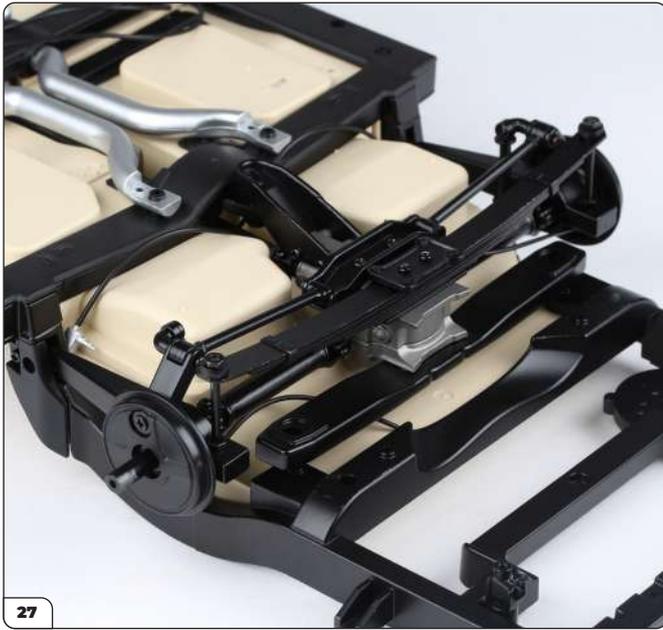


Press both damper rods into the cylinders (arrows), then fit the ends of the upper control arms into the openings highlighted in step 23.



Push firmly as shown until the support bracket aligns with the screw hole of the chassis (circled).

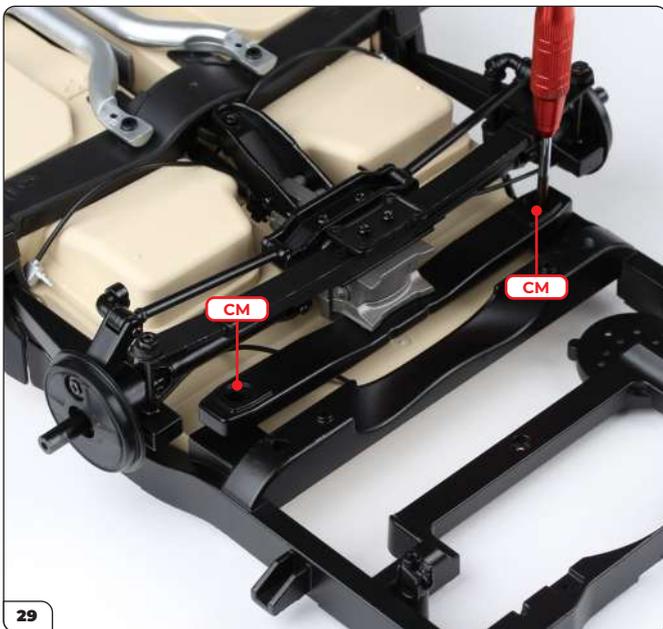
Stage 32: Fitting the Rear Suspension and Wheels



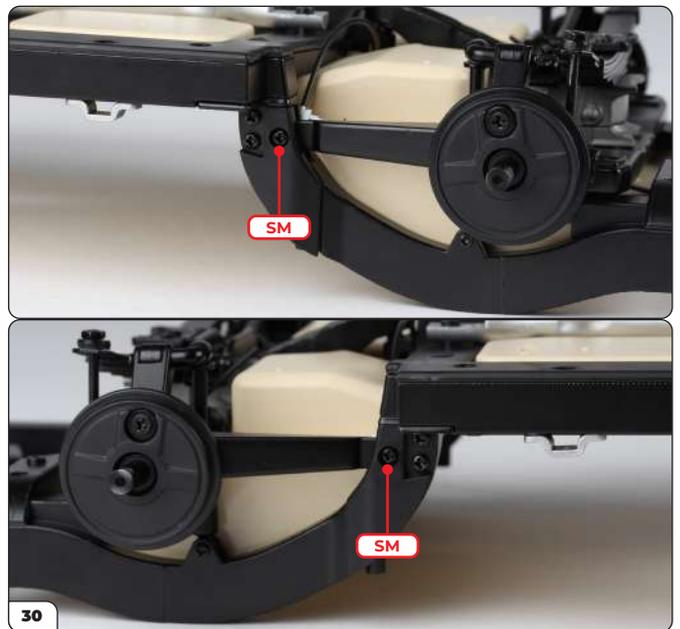
The rear suspension assembly should look like this once in place.



Start to secure the assembly by driving an AM screw through the support bracket.

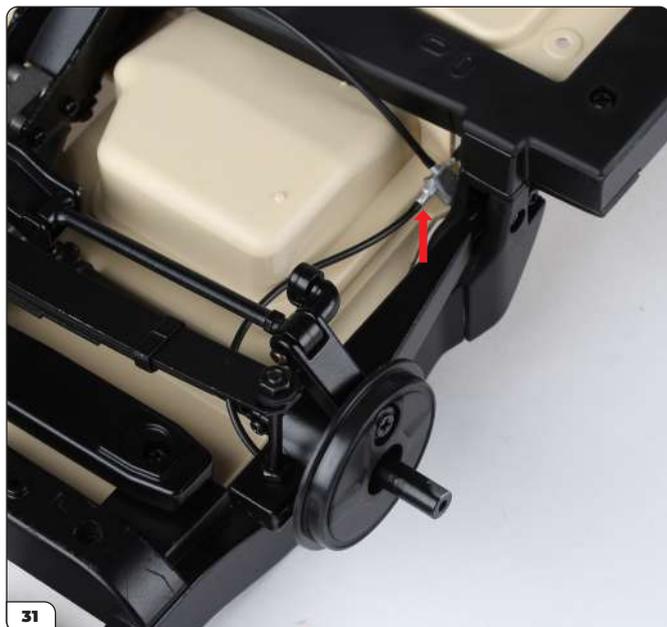


Secure the cross member to the rear chassis using 2x CM screws.

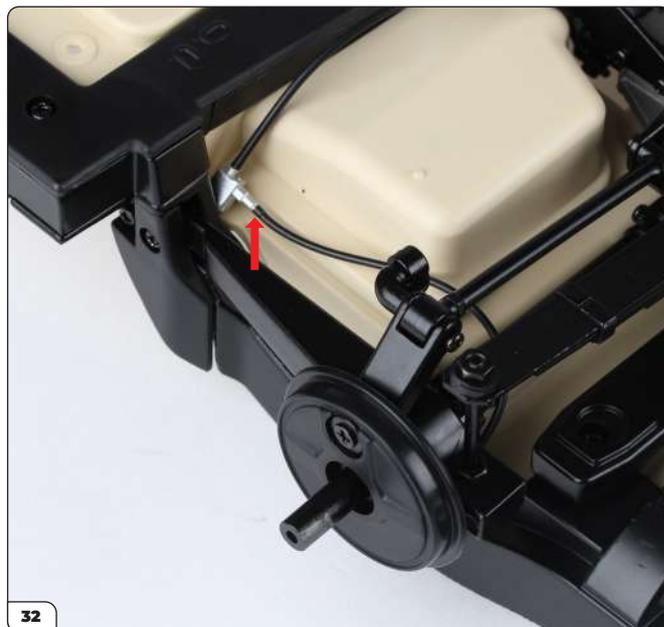


Check the upper control arms are aligned with the screw holes in the rear chassis side panels then secure each using an SM screw.

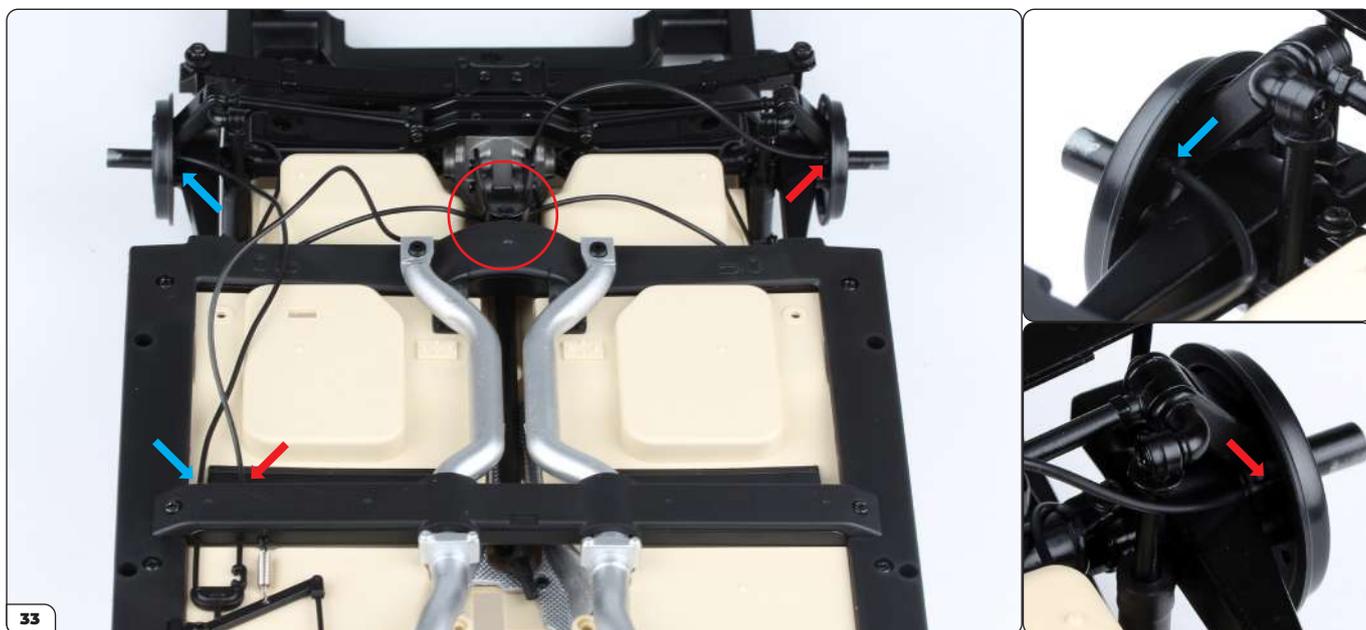
Stage 32: Fitting the Rear Suspension and Wheels



Plug the brake hose attached to the knuckle onto the pin of the silver connector (arrow).



Plug the brake hose on the other side in the same way (arrow).



Plug the end of the 145 mm long handbrake hose into the left knuckle (blue arrows). Guide the end of the 285 mm hose under the support bracket (circled) and plug it into the right knuckle (red arrows).

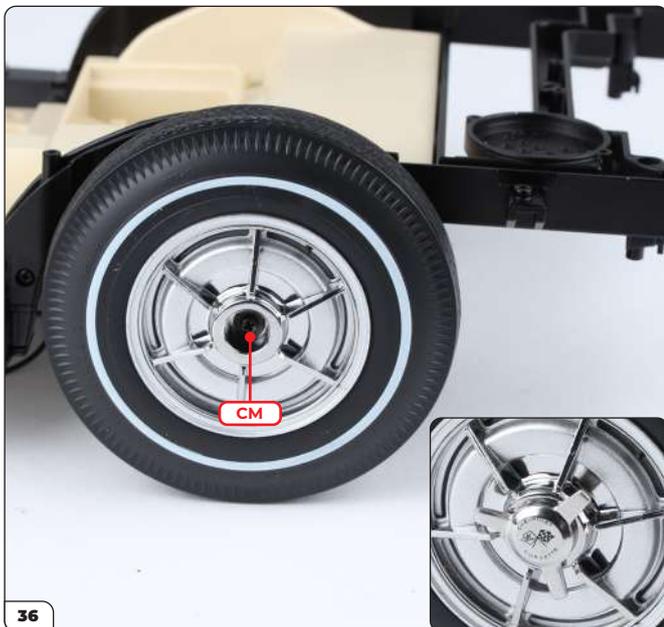
Stage 32: Fitting the Rear Suspension and Wheels



Remove the three-bar spinners from the wheels assembled in stages 25 and 27, if necessary.



Fit the rear left wheel onto the knuckle as shown, then place a thin washer over the end of the post (arrow).



Secure the left wheel using a CM screw. Fit the three-bar spinner back into the wheel cover (inset).



Fit the rear right wheel in the same way, placing a thin washer then securing it with a CM screw. Press the three-bar spinner in place (inset).

Stage 32: Fitting the Rear Suspension and Wheels

STAGE COMPLETE

