



Pack 03

BUILD INSTRUCTIONS

STAGE 16: PREPARING THE FRONT CHASSIS

STAGE 17: FITTING THE LOWER
CONTROL ARMS

STAGE 18: ASSEMBLING THE FRONT
RIGHT WHEEL

STAGE 19: MOUNTING THE ANTI-ROLL BAR
AND THE FRONT RIGHT WHEEL

STAGE 20: ATTACHING THE STEERING LINKAGE

STAGE 21: CONNECTING THE CHASSIS FRAME

STAGE 22: FITTING THE COCKPIT FLOOR
AND HANDBRAKE CABLE

STAGE 23: INSTALLING THE HEAT
ISOLATION SHIELD

STAGE 24: ATTACHING THE EXHAUST PIPES

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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.

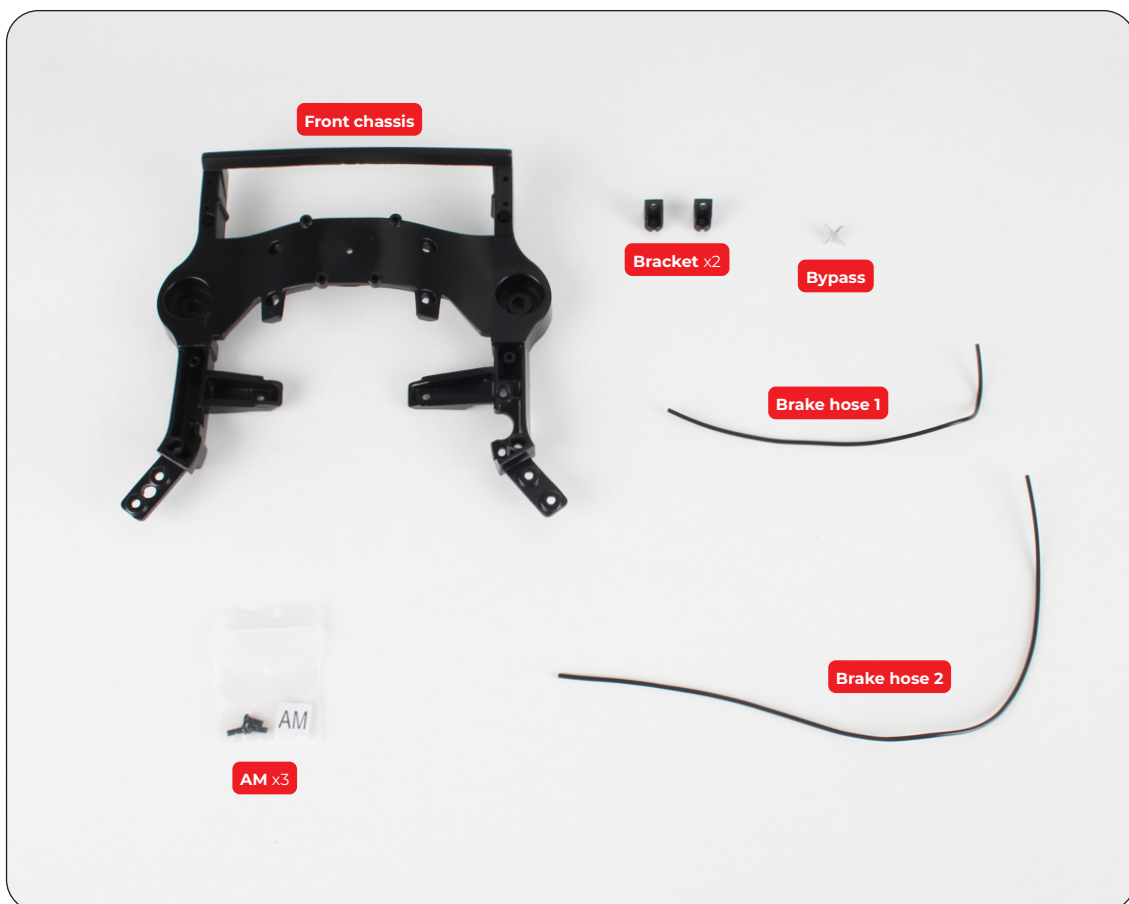
Stage 16: Preparing the Front Chassis

In this stage you'll prepare the front chassis by fitting the brackets and installing the front brake hoses.



STAGE 16 PARTS LIST

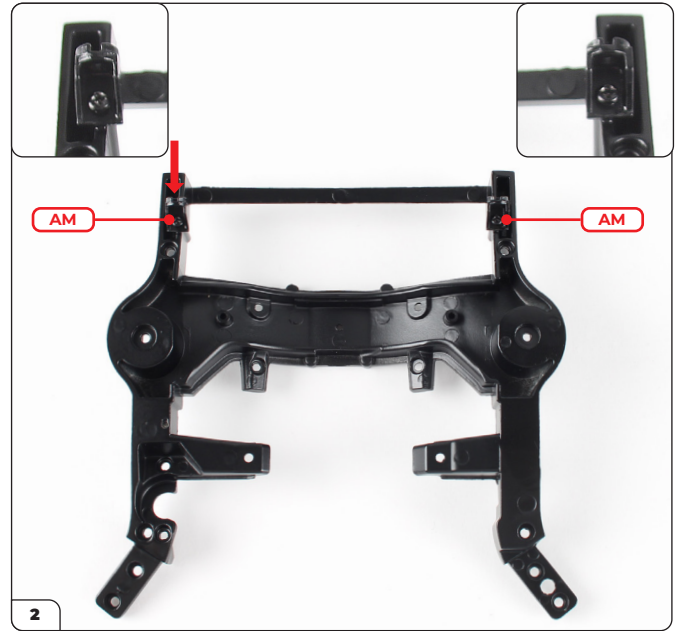
Name
Front chassis
Bracket x2
Bypass
Brake hose 1
Brake hose 2
AM screw x3



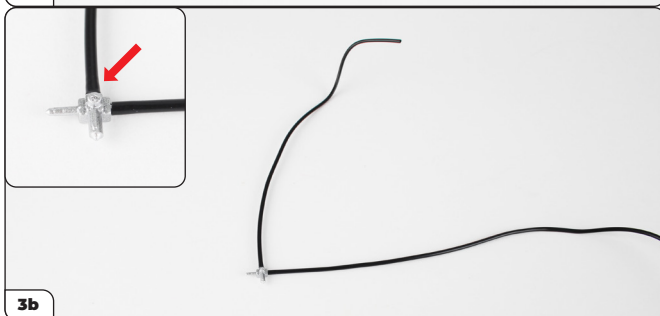
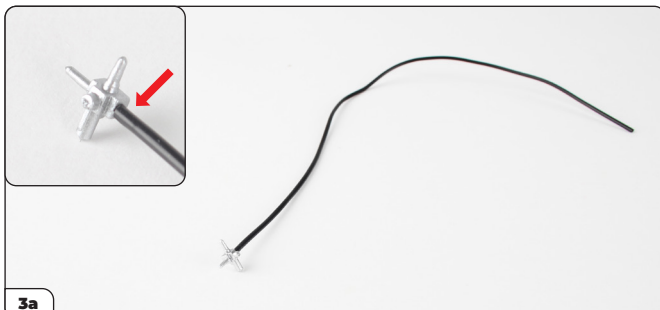
Stage 16: Preparing the Front Chassis



The two brackets are marked with "L" and "R" to distinguish left from right (inset, circled). Fit the right bracket onto the front chassis (arrow).



Fit the left bracket in the same way (arrow) then use 2x AM screws to secure the brackets.



Fit one end of the longer brake hose onto the bypass as shown (3a) – note the orientation of the bypass (inset). Fit the shorter hose onto the bypass (3b and inset).



Press the bypass into the hole in the front chassis (circled).

Stage 16: Preparing the Front Chassis

STAGE COMPLETE



Stage 17: Fitting the Lower Control Arms

After building the lower control arms, you'll fit them to the front chassis and then attach the front left wheel assembled in Stage 4.

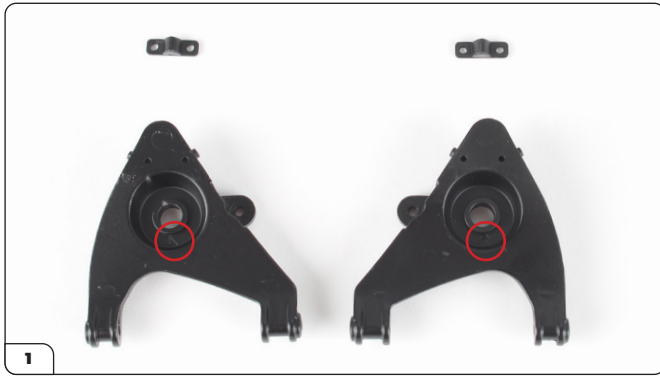


STAGE 17 PARTS LIST

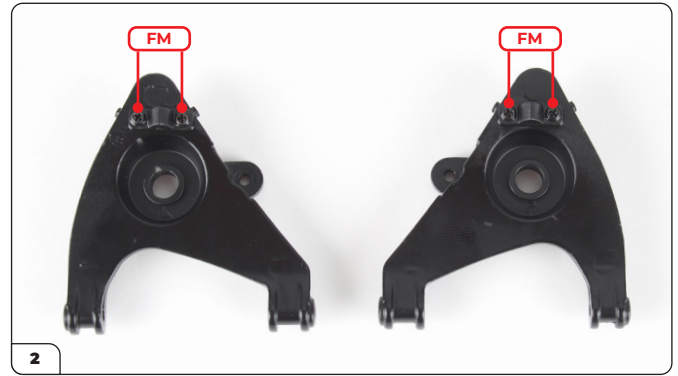
Name
Front chassis cover
Spring x2
Lower control arm (L)
Lower control arm (R)
Cylinder x2
Lower control arm shaft (L and R)
Cylinder rod x2
Bracket x2
CM screw x8
DM screw x8
FM screw x10
KM screw x5
LM screw x2



Stage 17: Fitting the Lower Control Arms



Lay out the lower control arms and the brackets. The control arms are marked with "L" and "R" to distinguish left from right (circled).



Place the brackets onto the control arms as shown then secure in place using 4x FM screws.



Turn the control arms over and fit the cylinders through the large holes (arrows).



Secure the cylinders using 4x FM screws.

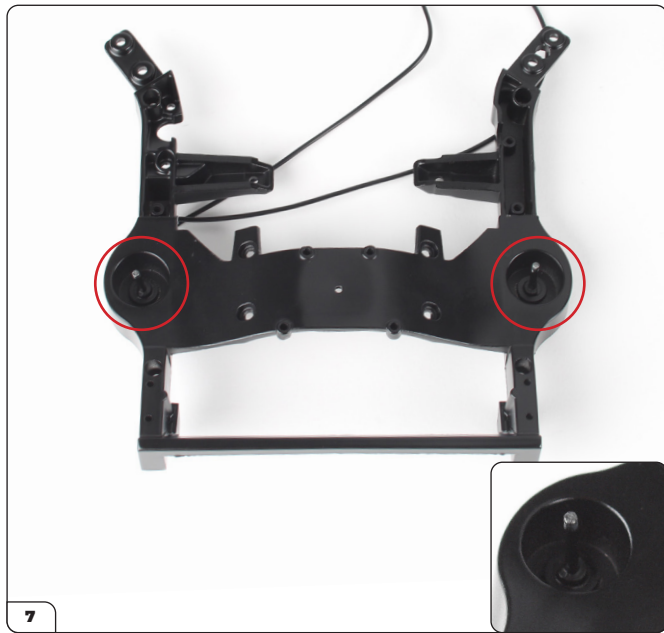


Align the shafts (marked "L" and "R", circled) with the control arms as shown, then prepare 4x KM screws which will secure the shafts from the outside of the arms.



Fit the shafts in place then secure using the KM screws.

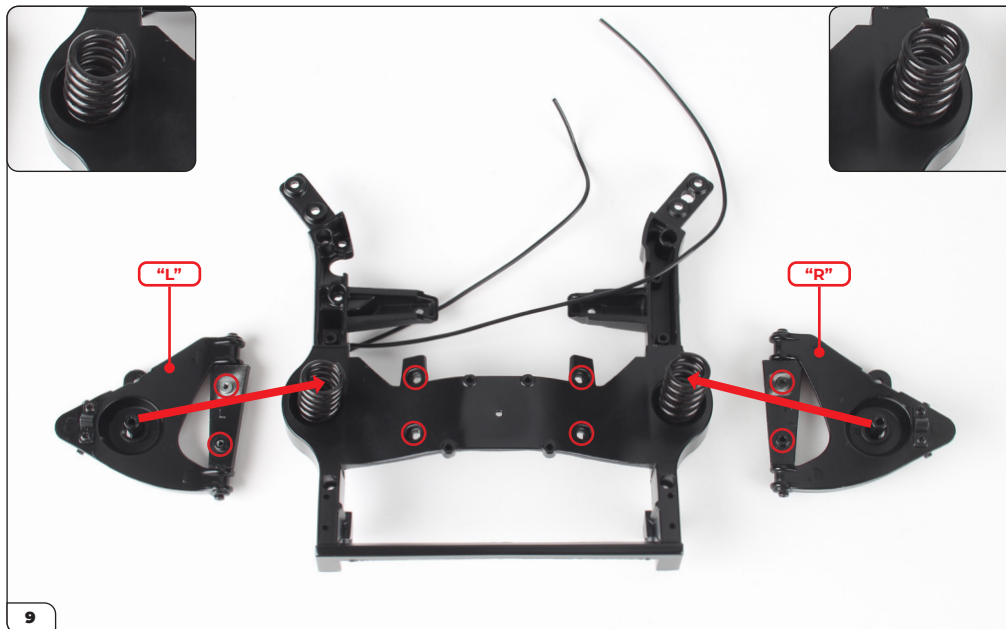
Stage 17: Fitting the Lower Control Arms



Fit the cylinder rods into the D-shaped holes inside the recesses of the front chassis (circled) as shown.

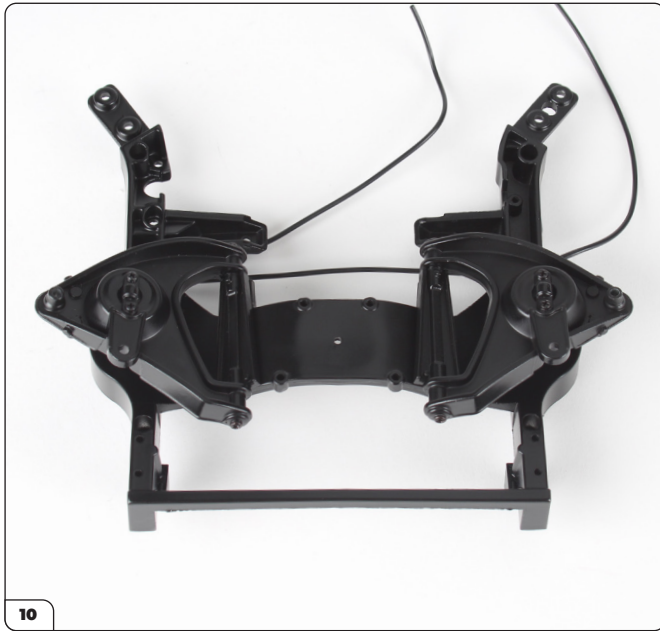


Turn the assembly over and secure the rods using 2x DM screws.

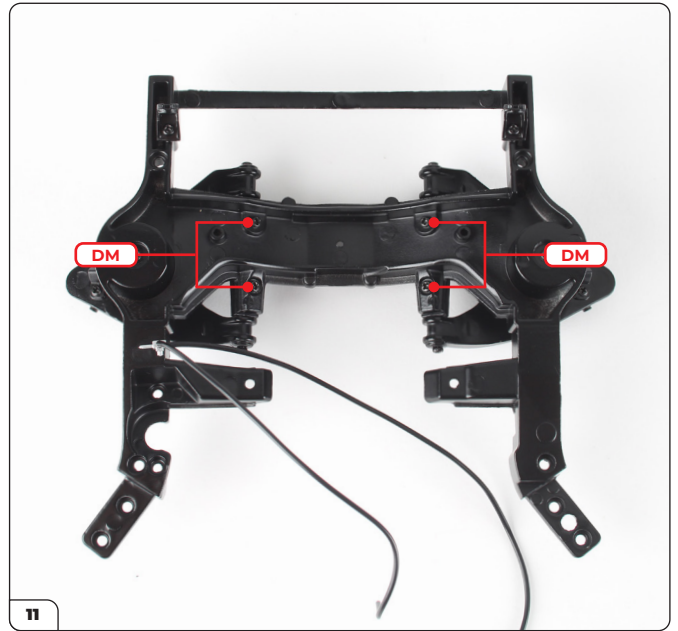


Turn the assembly back over and position the springs in the recesses (insets). The cylinders of the left and right control arms will fit into the springs and over the rods inside (arrows). The raised screw holes of the shafts will fit into the corresponding holes on the chassis (circled).

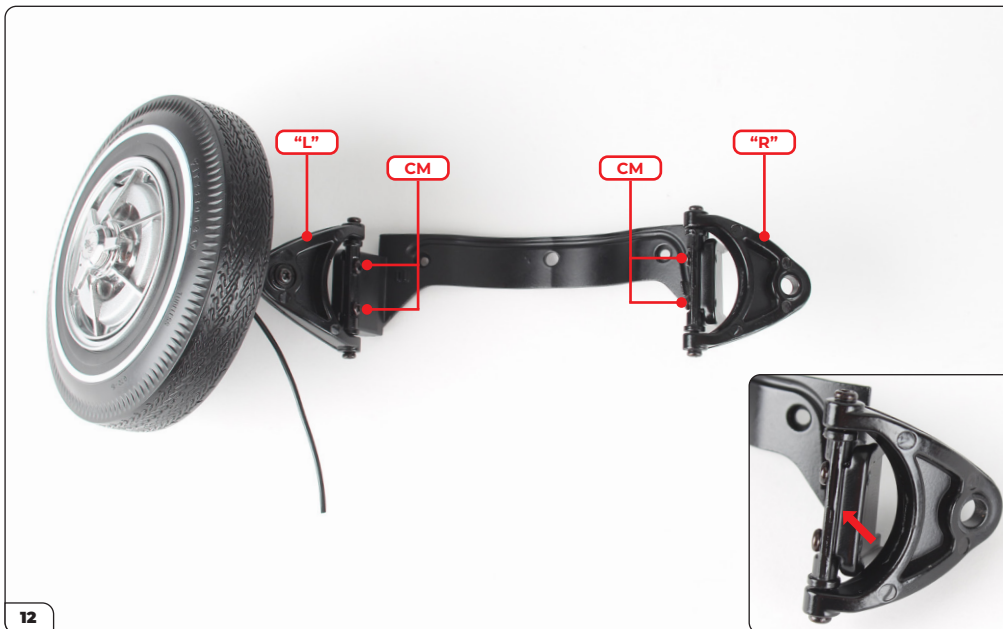
Stage 17: Fitting the Lower Control Arms



Flip the control arms over and fit them in position as shown.



Turn the assembly over and secure the shafts to the chassis using 4x DM screws.

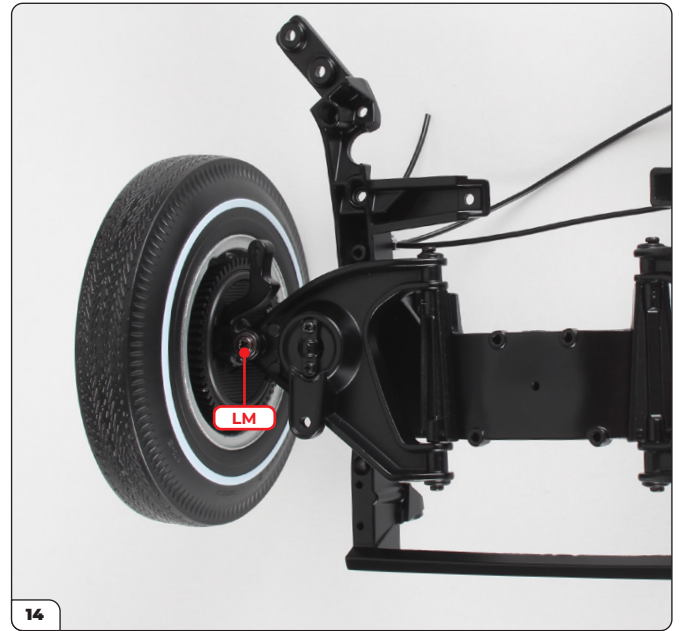


Place the front chassis cover on your work surface in the orientation shown, then fit the control arms (marked "L" and "R") from Stage 15 and secure them to the cover using 4x CM screws. The shafts of the control arms are recessed to fit the cover (inset, arrow).

Stage 17: Fitting the Lower Control Arms



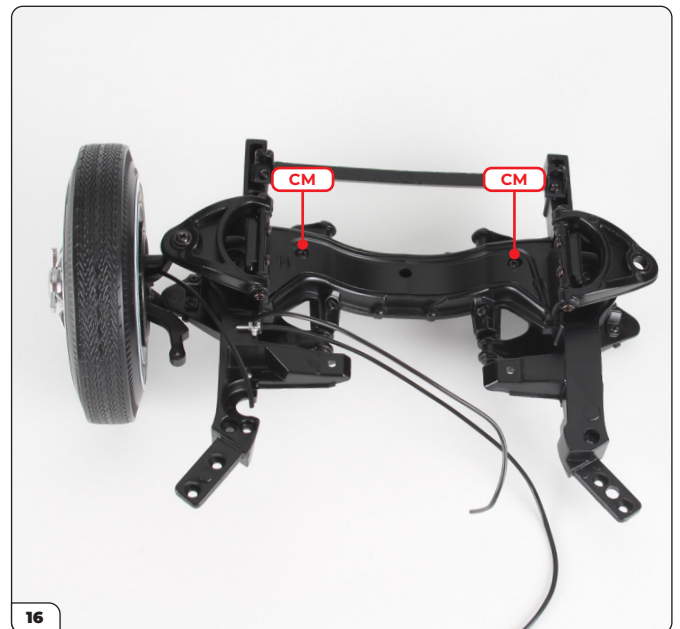
Align the assembly with the front chassis. The left suspension upright has an opening which fits over the raised screw post of the left lower control arm (arrow).



Fit the opening onto the post and secure using an LM screw.



Carefully turn the assembly over then lower the front chassis cover as shown by the arrow.



Check the cover is aligned correctly then secure with 2x CM screws.

Stage 17: Fitting the Lower Control Arms

STAGE COMPLETE



Stage 18: Assembling the Front Right Wheel

Next you'll build the front right wheel, ready for it to be attached in the next stage.

Note: the first set of wheels supplied are the original '63 production wheels. The '64 knock-offs (shown in the image on the right) will be supplied in a later stage allowing you to choose the final look of your model.



STAGE 18 PARTS LIST

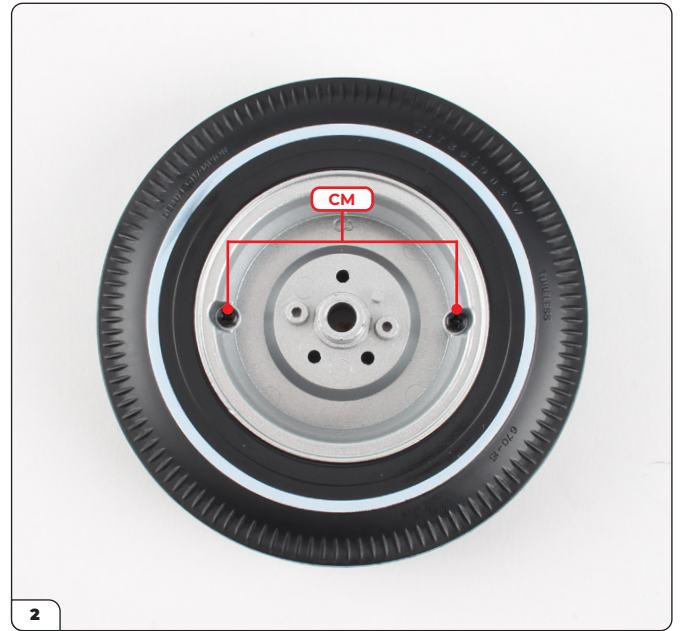
Name
Tyre
Outer wheel rim
Inner wheel rim
Six-spoke wheel cover
Three-bar spinner
CM screw x3
DP screw x3



Stage 18: Assembling the Front Right Wheel



Press the outer wheel rim into the tyre until the parts are flush.



Turn over and fit the inner wheel rim through from the inner side as shown. Align the outer holes then secure using 2x CM screws.



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



Secure the wheel cover by driving 2x DP screws through the inner wheel rim.

Stage 18: Assembling the Front Right Wheel



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

STAGE COMPLETE



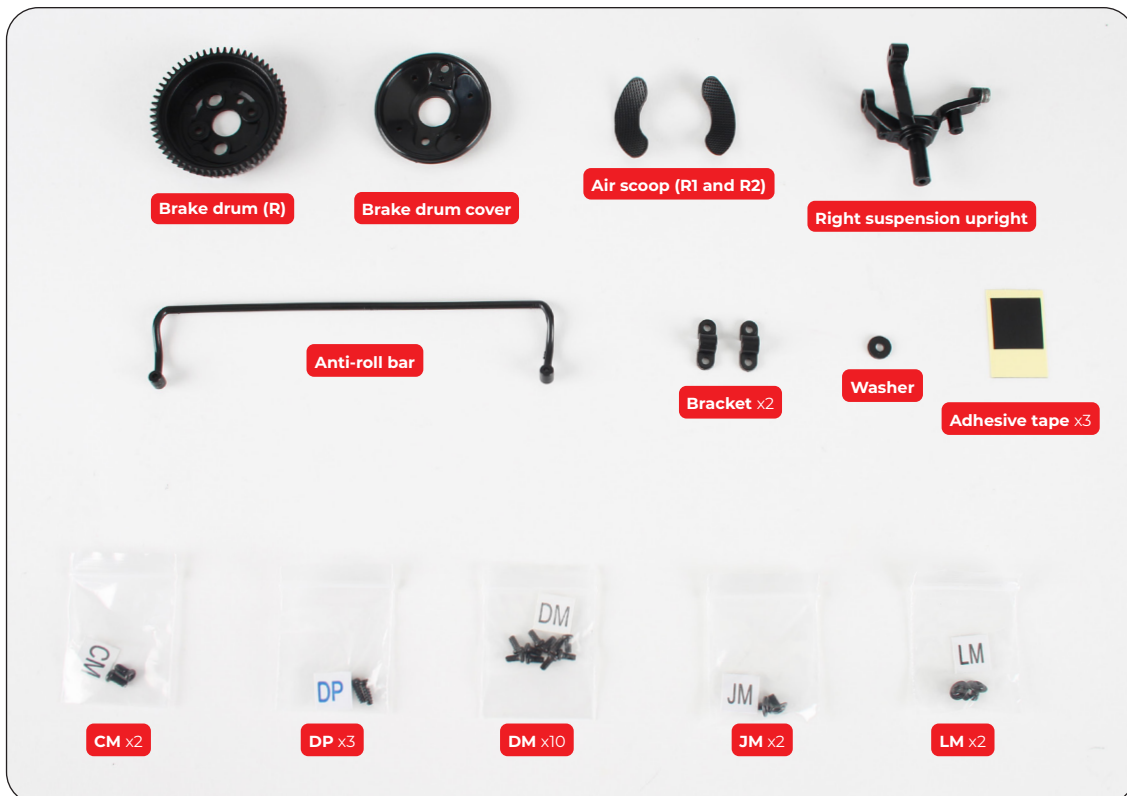
Stage 19: Mounting the Anti-roll Bar and the Front Right Wheel

In this stage you'll fit the brake drum to the right wheel then mount it onto the front chassis. You'll also fit the anti-roll bar.

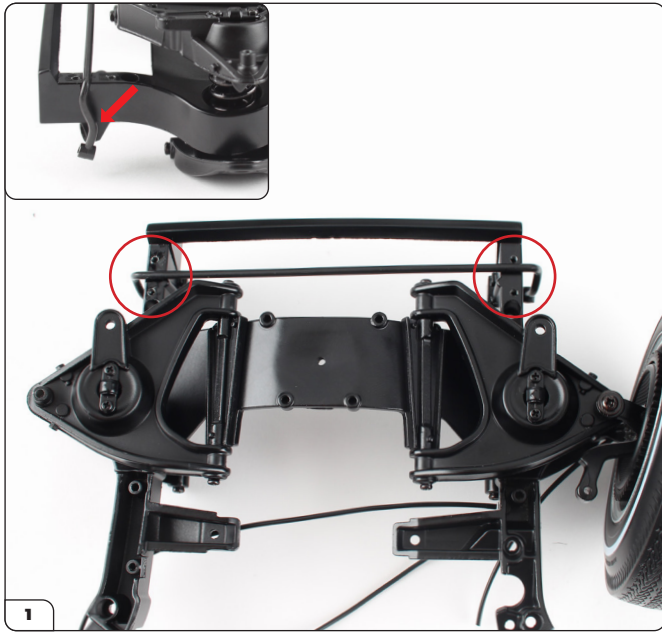


STAGE 19 PARTS LIST

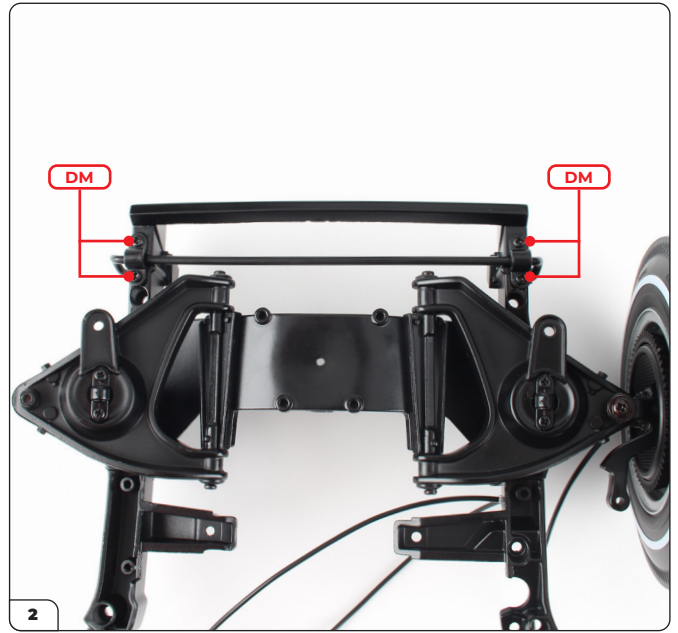
Name
Brake drum (R)
Brake drum cover
Air scoop (R1 and R2)
Right suspension upright
Anti-roll bar
Bracket x2
Washer
Adhesive tape x3
CM screw x2
DP screw x3
DM screw x10
JM screw x2
LM screw x2



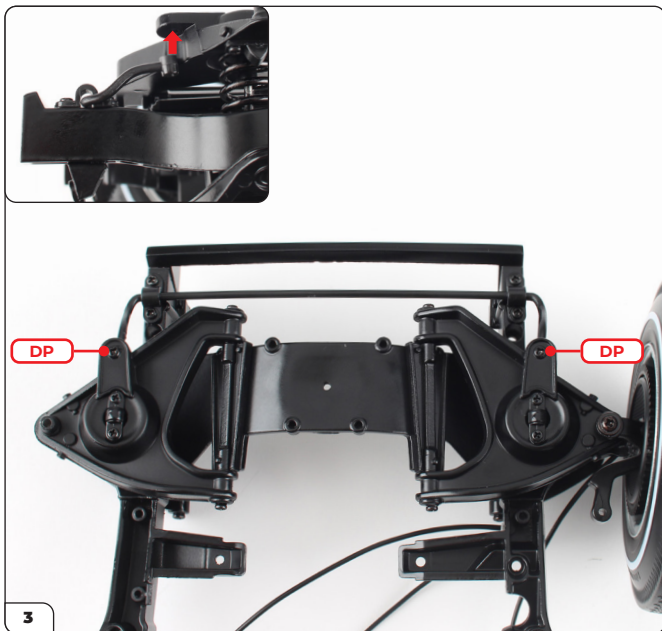
Stage 19: Mounting the Anti-roll Bar and the Front Right Wheel



Place the anti-roll bar between the holes located on the front chassis (circled). Ensure the curved ends of the bar are oriented towards the suspension as shown in the inset image.



Fit the brackets over the holes and the bar then secure using 4x DM screws.



Lift the ends of the anti-roll bar up to the holes in the lower control arms (inset, arrow). Press down on the lower control arms and carefully secure the bar using 2x DP screws – do not overtighten as this could damage the bar.

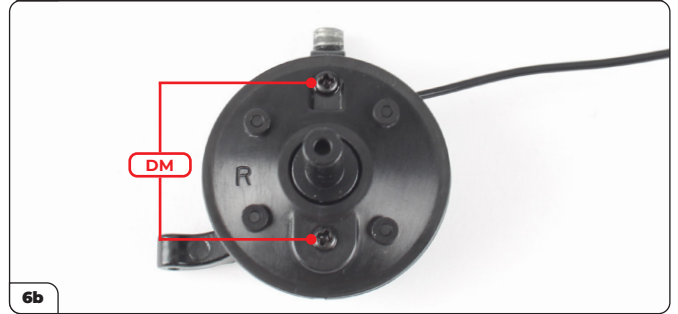


Orient the brake drum cover as shown then press the air scoops (marked "R1" and "R2", circled) into place (arrows).

Stage 19: Mounting the Anti-roll Bar and the Front Right Wheel



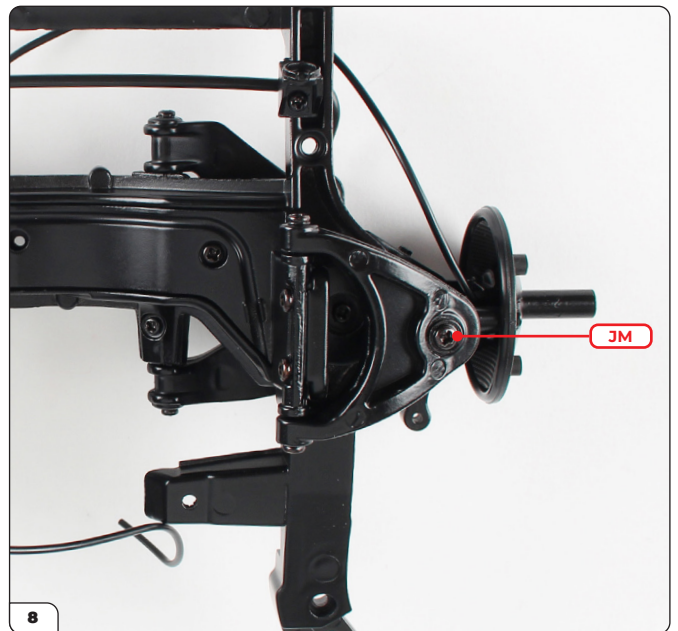
Remove the longer brake hose from the bypass (5a, arrow) then fit it onto the pin of the brake drum cover (5b, circled).



Fit the cover onto the right suspension upright as shown (6a) then secure using 2x DM screws (6b).

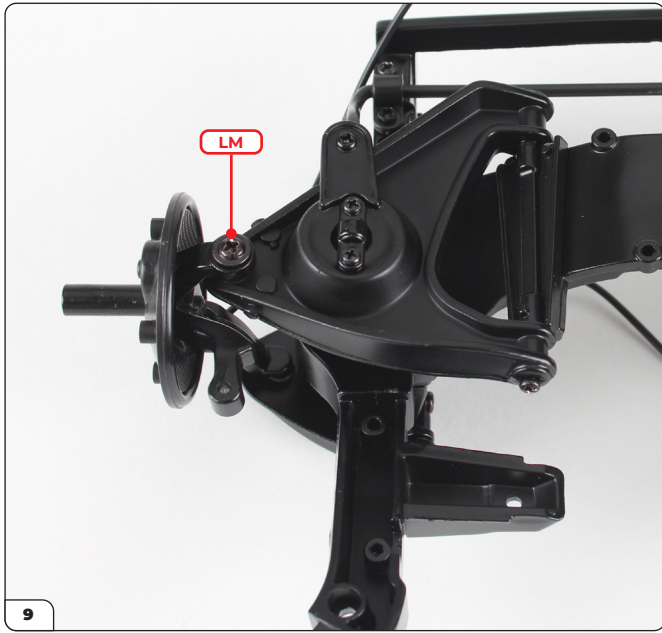


Align the upright with the chassis as shown. Fit the screw posts into their fixing points (arrows).



Secure the top control arm using a JM screw.

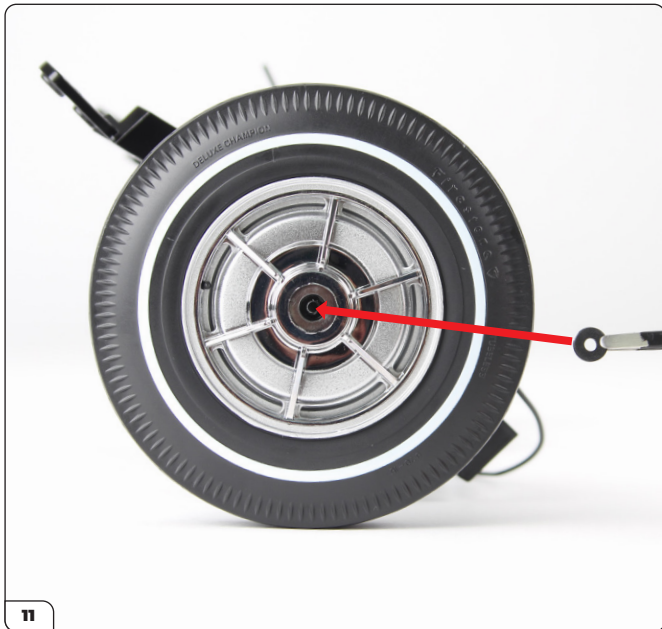
Stage 19: Mounting the Anti-roll Bar and the Front Right Wheel



Turn the assembly over and secure the lower control arm using an LM screw.



Fit the brake drum into the front right wheel from Stage 18 and secure with 2x DM screws.



Remove the spinner then position the wheel onto the upright as shown. Check the outer wheel is facing away from the upright. Place the washer inside the wheel cover (arrow).

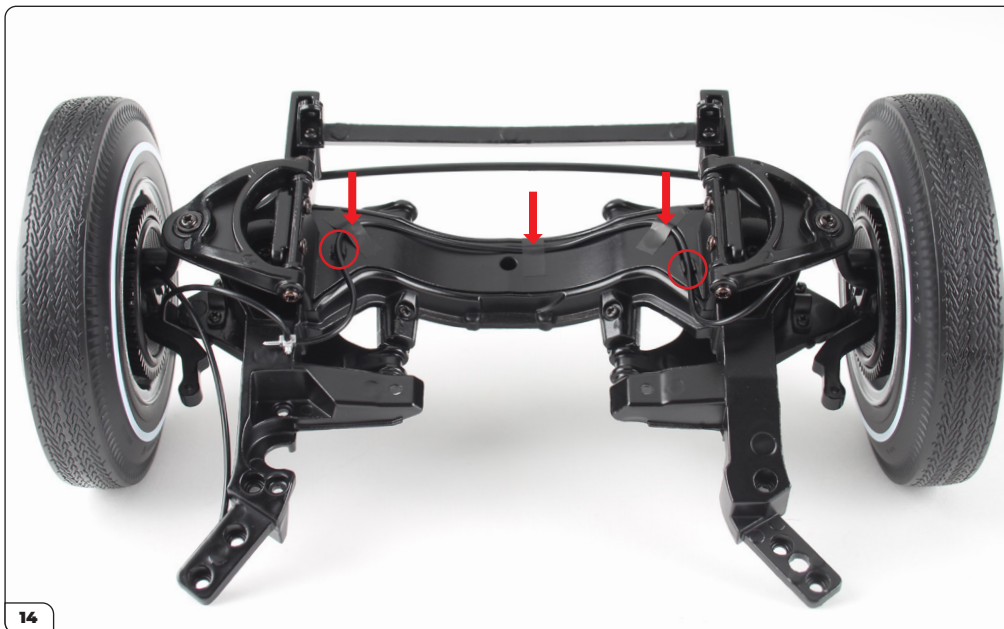


Secure the wheel using a CM screw. Press the spinner into the wheel cover (inset).

Stage 19: Mounting the Anti-roll Bar and the Front Right Wheel

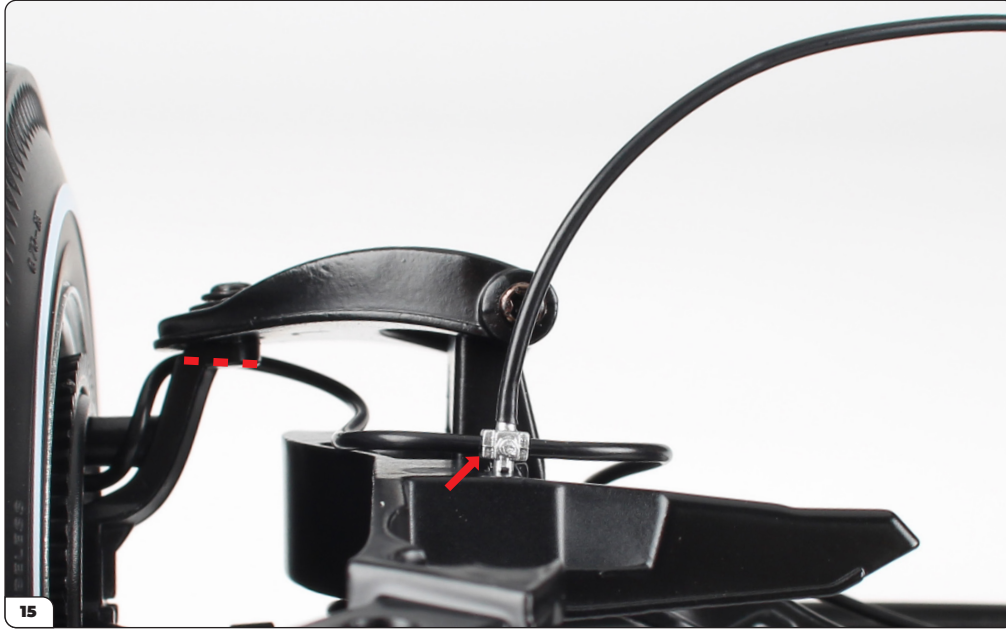


Fit the loose end of the longer brake hose back onto the bypass (arrow).



Press the hose into the clips (circled) then run it along the recessed track as shown. Secure in place using the three pieces of adhesive tape (arrows).

Stage 19: Mounting the Anti-roll Bar and the Front Right Wheel



Take the loose end of the left wheel's brake hose and pass it behind the upright (dashed line) then feed it through to attach to the bypass (arrow) as shown.



Stage 20: Attaching the Steering Linkage

With the front wheels in place, it's time to assemble the steering linkage and connect it to the suspension uprights.

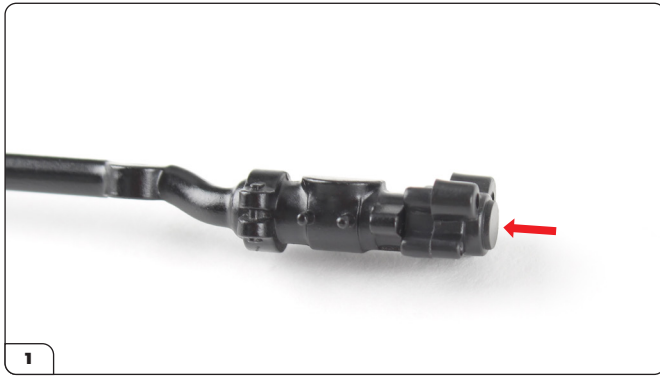


STAGE 20 PARTS LIST

Name	Name
Chassis cover	Steering motor
Central steering bar	AM screw x2
Steering linkage (L and R)	DM screw x2
Hose (L and R)	EP screw x2
Cylinder	GP screw x2
Cylinder rod	HP screw x3
Idler arm	MM screw x5
Linkage bracket	NM screw x2
Cylinder bracket	



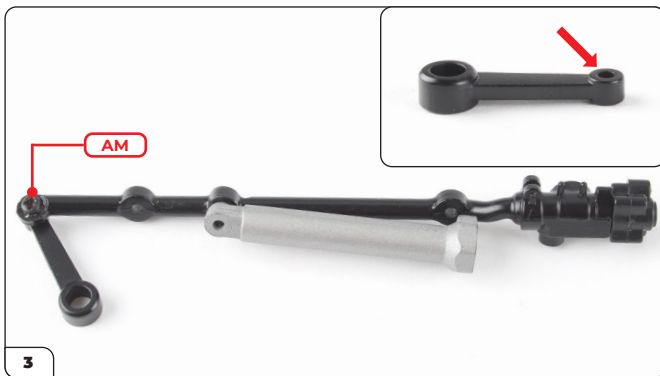
Stage 20: Attaching the Steering Linkage



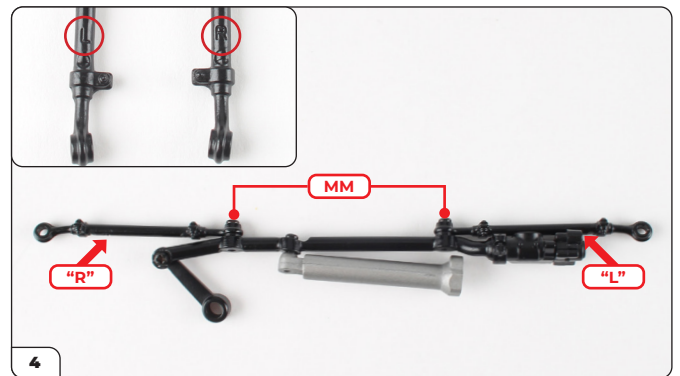
Press the steering motor onto the end of the central steering bar in the orientation shown.



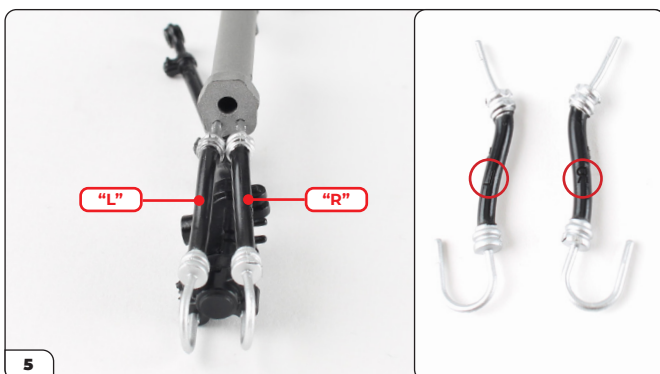
Position the cylinder onto the central steering bar as shown (note the rounded side of the cylinder is in contact with the bar, arrow) then secure using a GP screw.



Secure the small rounded end of the idler arm (inset, arrow) to the end of the steering bar using an AM screw.



Fit the steering linkages (marked "L" and "R", inset, circled) and secure them to the steering bar using 2x MM screws. Note that the "L" and "R" marks should be located in the positions indicated by the arrows.



Press the ends of the hoses (marked "L" and "R", circled) into the holes of the cylinder and steering motor as shown.

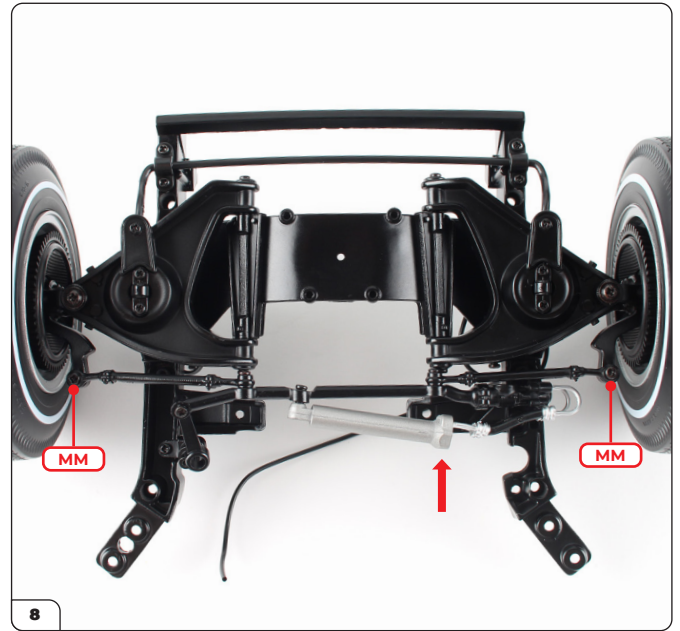


The steering bar should look like this once assembled.

Stage 20: Attaching the Steering Linkage



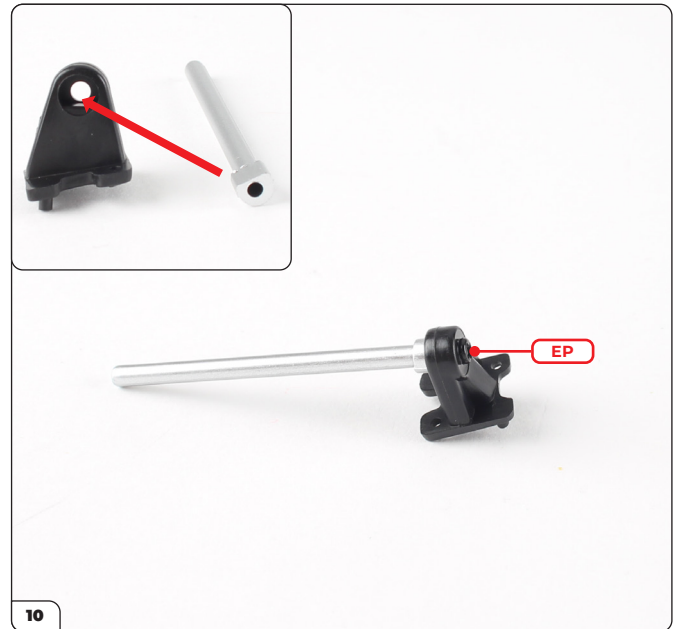
Fit the linkage bracket in the recess on the front chassis and secure using a DM screw.



Align the steering linkage assembly with the front chassis as shown (note orientation of the cylinder, arrow). Position the ends of the steering linkages over the screw holes of the suspension uprights and secure using 2x MM screws.

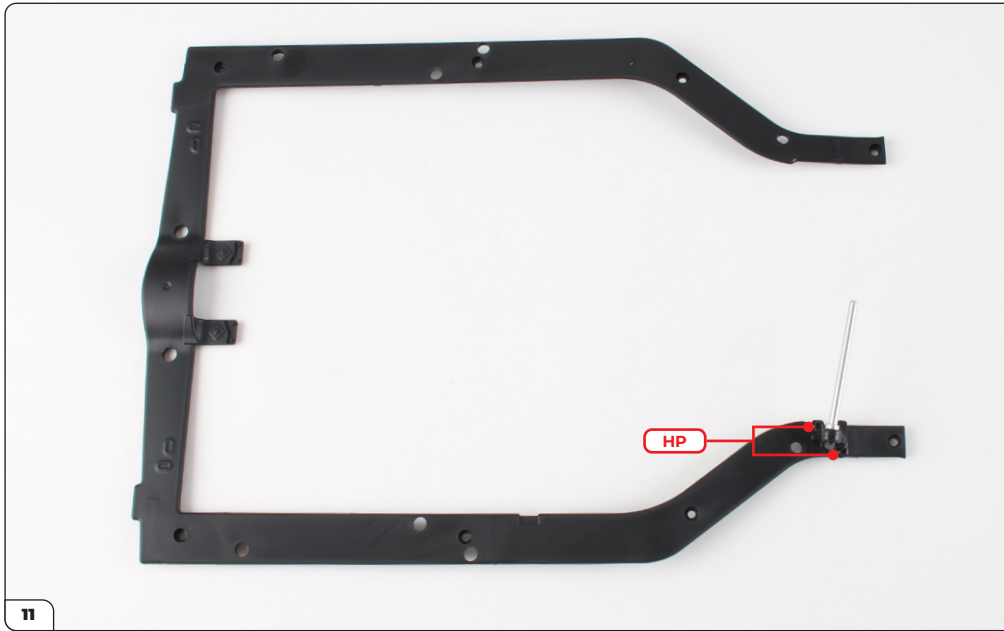


Secure the end of the idler arm to the bracket with an NM screw.

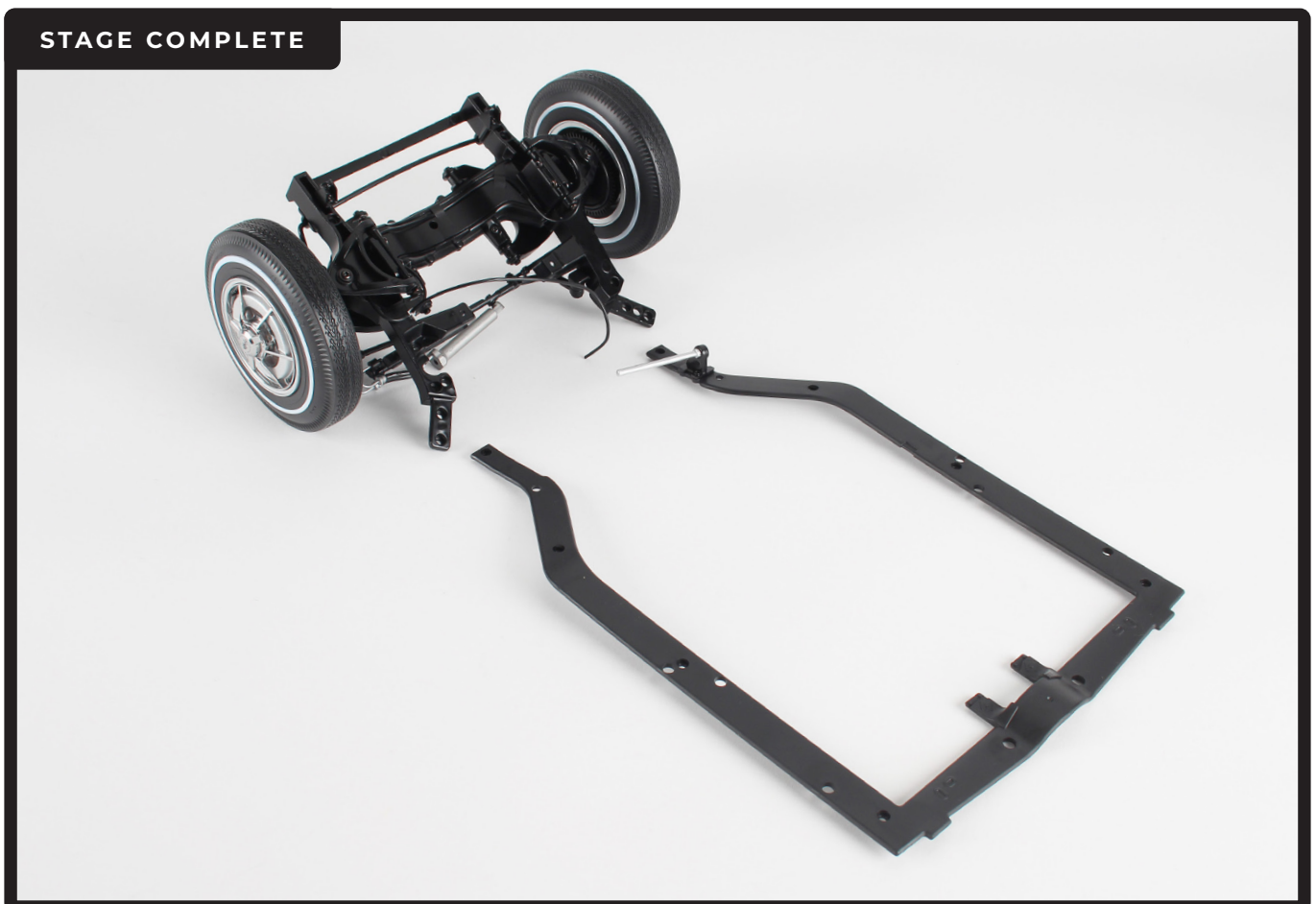


Fit the D-shaped end of the cylinder rod into the shaped hole of the cylinder bracket (inset, arrow) then secure using an EP screw.

Stage 20: Attaching the Steering Linkage



Fit the cylinder bracket onto the chassis cover as shown and fix in place with 2x HP screws.



Stage 21: Connecting the Chassis Frame

In this stage you'll mount brackets on the chassis frame then connect it to the front assembly.



STAGE 21 PARTS LIST

Name
Chassis frame
Mounting bracket x4
Main brake hose
DM screw x10
HM screw x5



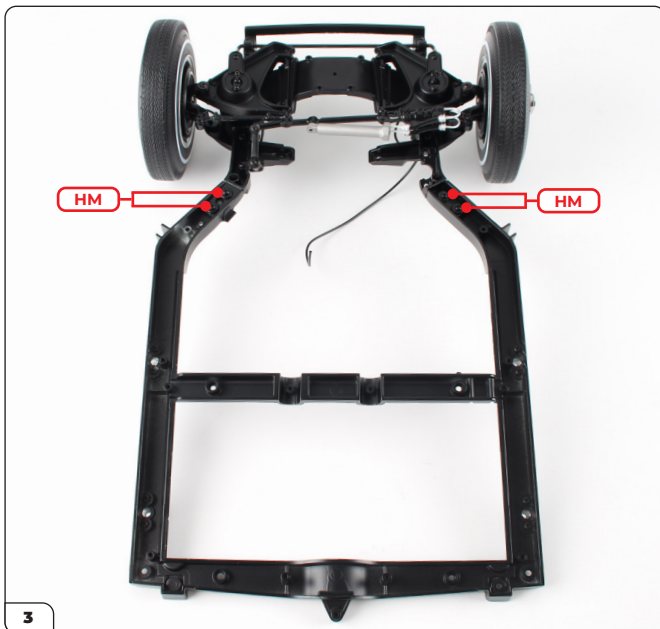
Stage 21: Connecting the Chassis Frame



1
Position the mounting brackets on the chassis frame (arrows).



2
Secure the brackets from underneath using 8x DM screws.

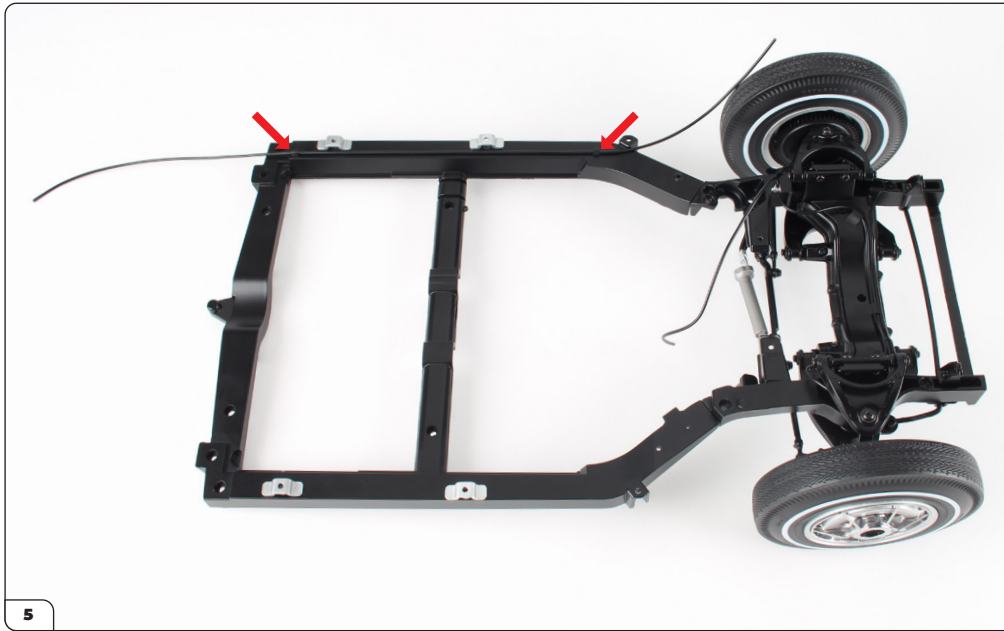


3
Fit the chassis frame and the front chassis together as shown then secure together using 4x HM screws.

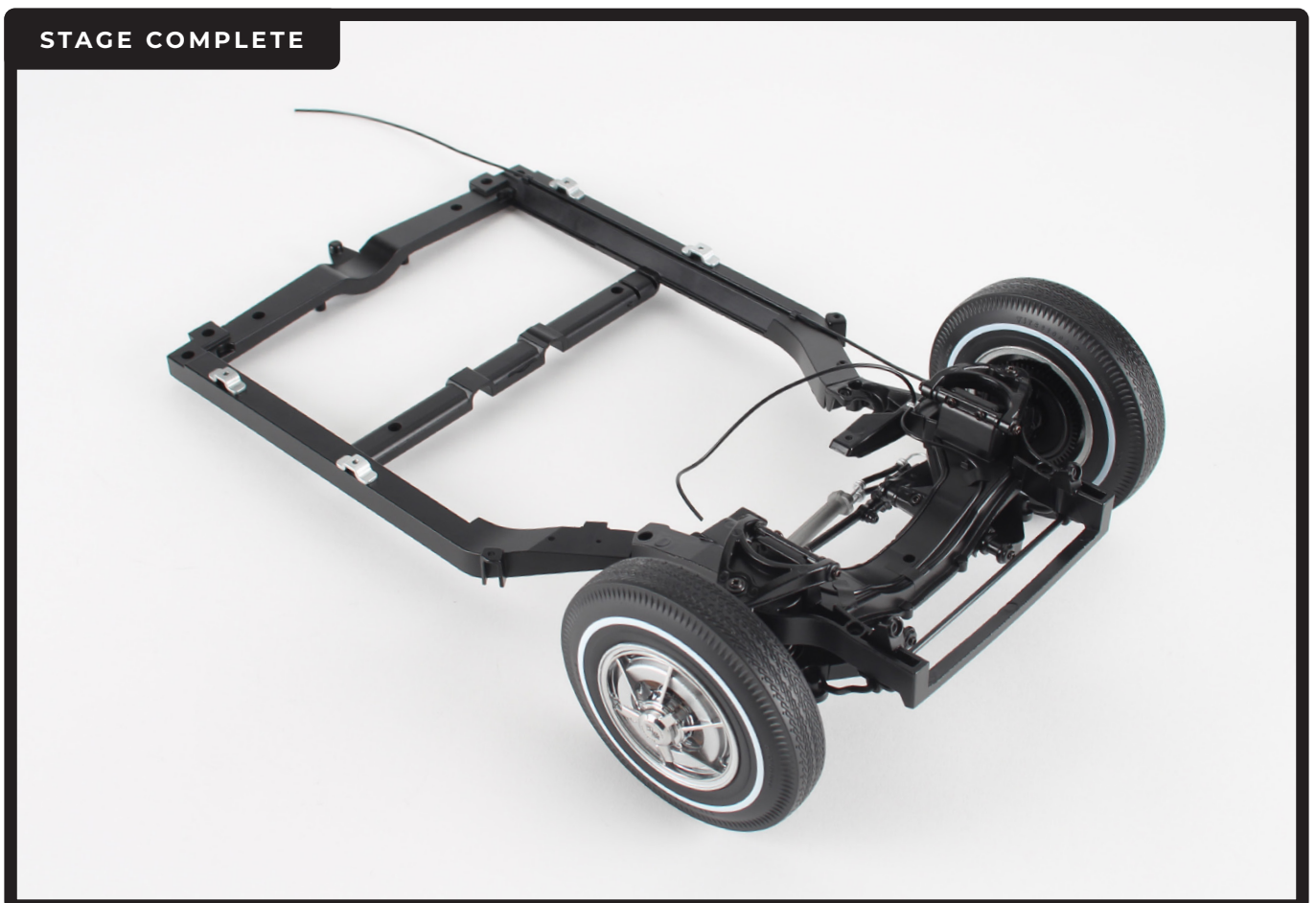


4
Turn the assembly upright and locate the two clips on the chassis frame (circled).

Stage 21: Connecting the Chassis Frame



Press the main brake hose into the clips (arrows).



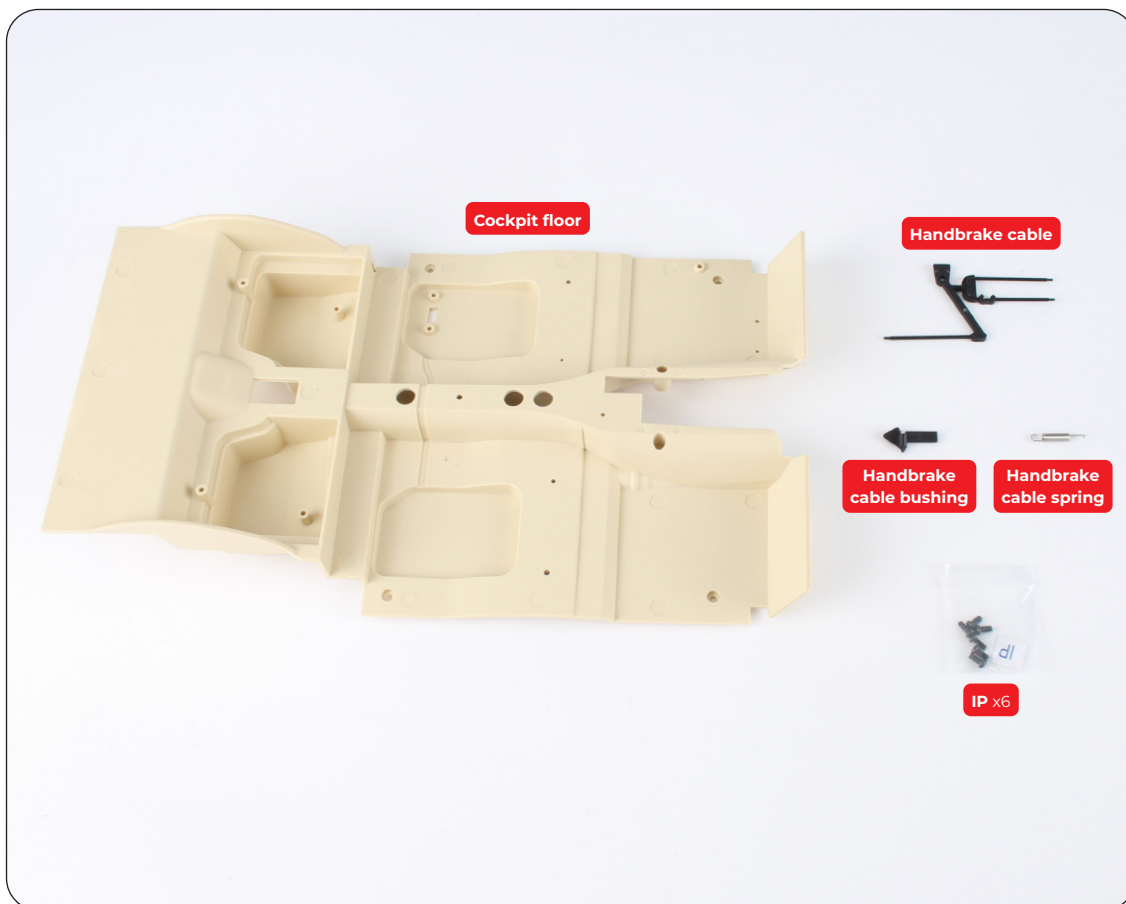
Stage 22: Fitting the Cockpit Floor and Handbrake Cable

The cockpit floor can now be fitted onto the chassis frame. You'll also assemble the handbrake cable.



STAGE 22 PARTS LIST

Name
Cockpit floor
Handbrake cable
Handbrake cable bushing
Handbrake cable spring
IP screw x6



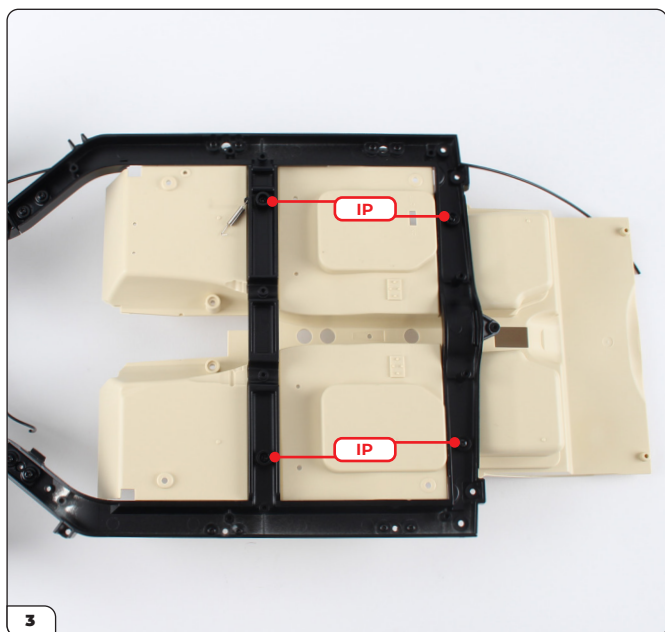
Stage 22: Fitting the Cockpit Floor and Handbrake Cable



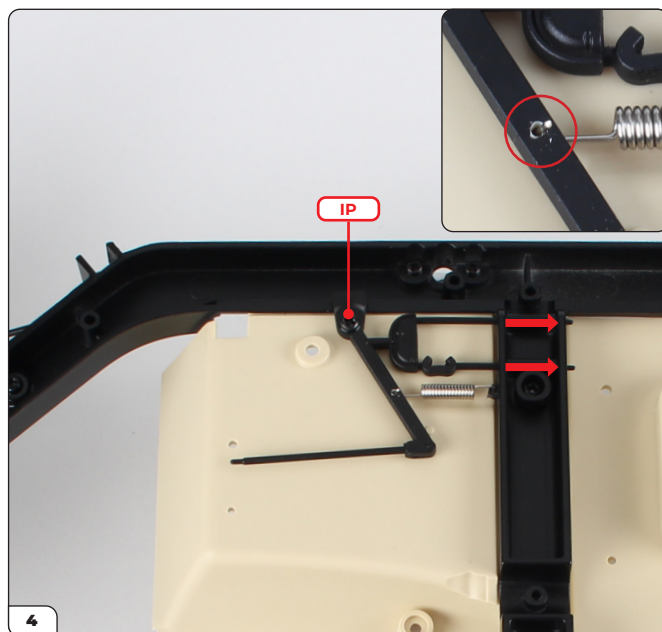
Fit the U-shaped end of the handbrake cable spring (inset, arrow) through the loop in the chassis frame (circled).



Position the cockpit floor onto the frame as shown.



Secure the cockpit floor to the frame from underneath using 4x IP screws.



Fit the handbrake cable by pushing the two thin pins through the holes in the chassis frame (arrows). At the same time, thread the V-shaped end of the spring into the hole (inset, circled). Secure in place using an IP screw.

Stage 22: Fitting the Cockpit Floor and Handbrake Cable



Fit the bushing over the handbrake cable (arrow) and press into the cockpit floor.



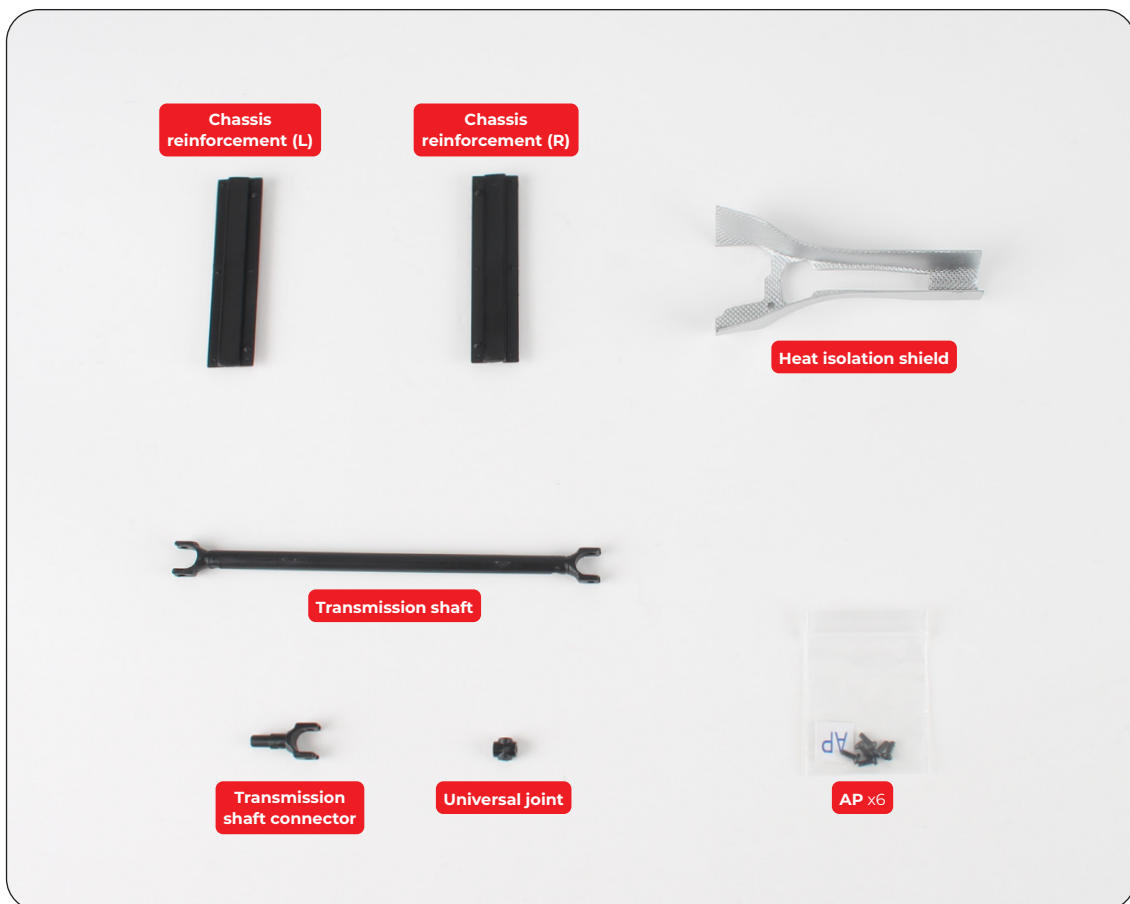
Stage 23: Installing the Heat Isolation Shield

Next you'll fit the heat isolation shield and chassis reinforcements in place and assemble the transmission shaft.

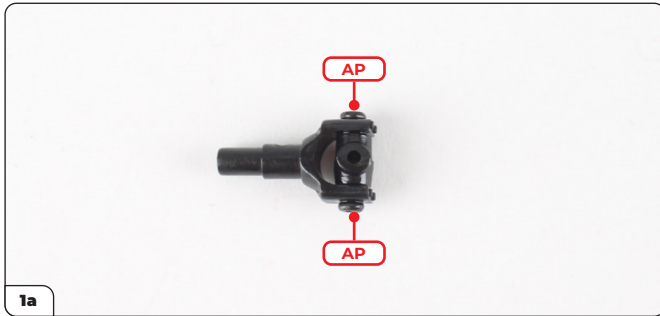


STAGE 23 PARTS LIST

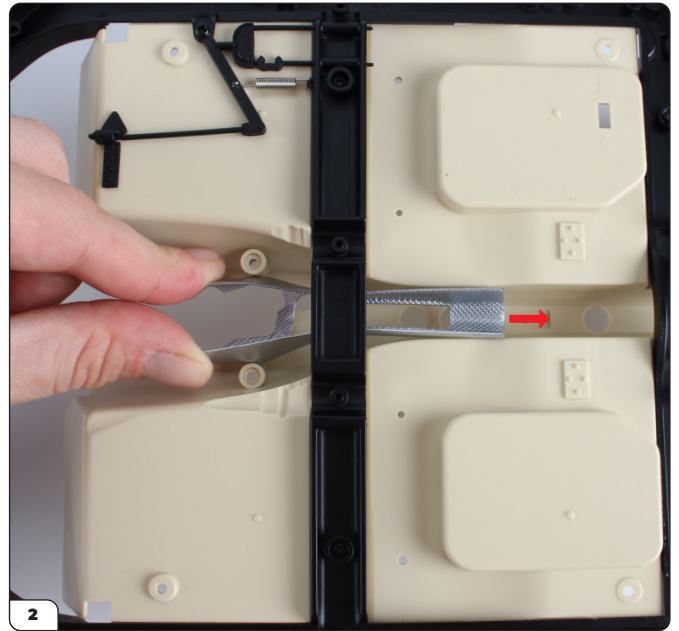
Name
Chassis reinforcement (L)
Chassis reinforcement (R)
Heat isolation shield
Transmission shaft
Transmission shaft connector
Universal joint
AP screw x6



Stage 23: Installing the Heat Isolation Shield



Fit the universal joint into the transmission shaft connector and secure using 2x AP screws (1a), then push the joint into the end of the transmission shaft and secure with 2x AP screws (1b).



To fit the heat isolation shield, carefully squeeze the wide end and push it through underneath the cross beam, passing between the screw columns as shown.



The heat isolation shield should look like this once in place.

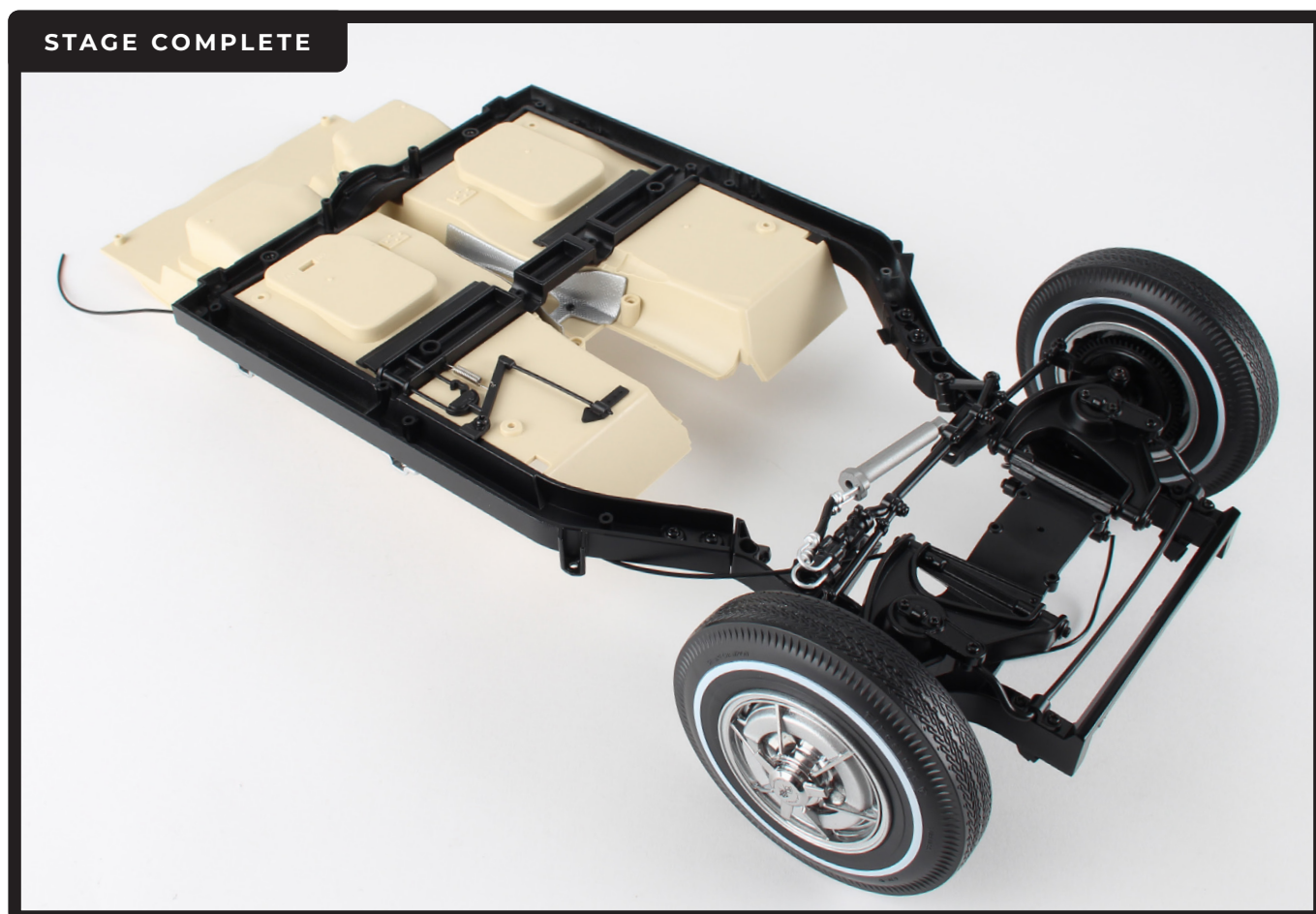


Secure the shield using an AP screw.

Stage 23: Installing the Heat Isolation Shield



The chassis reinforcements are marked "L" and "R" to distinguish left from right (5a, circled). When fitting the chassis reinforcements, make sure the bolts are next to the frame's cross beam (5b, circled). Press the left and right reinforcements into position as shown (5c).



Stage 24: Attaching the Exhaust Pipes

In the final stage for this pack, you'll fit the exhaust pipes to the underside of the chassis then press the cross beam cover in place.

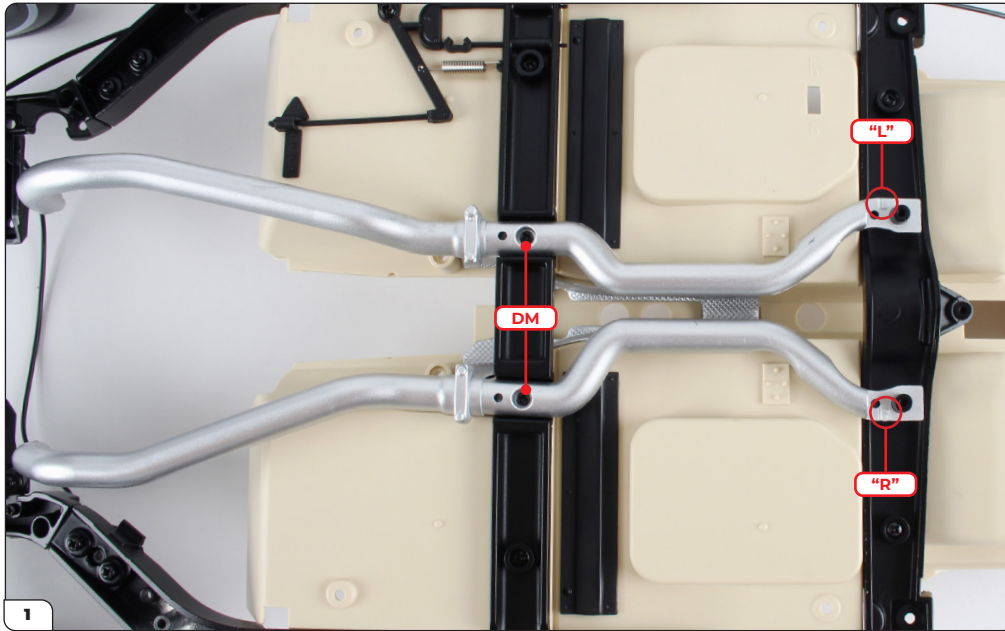


STAGE 24 PARTS LIST

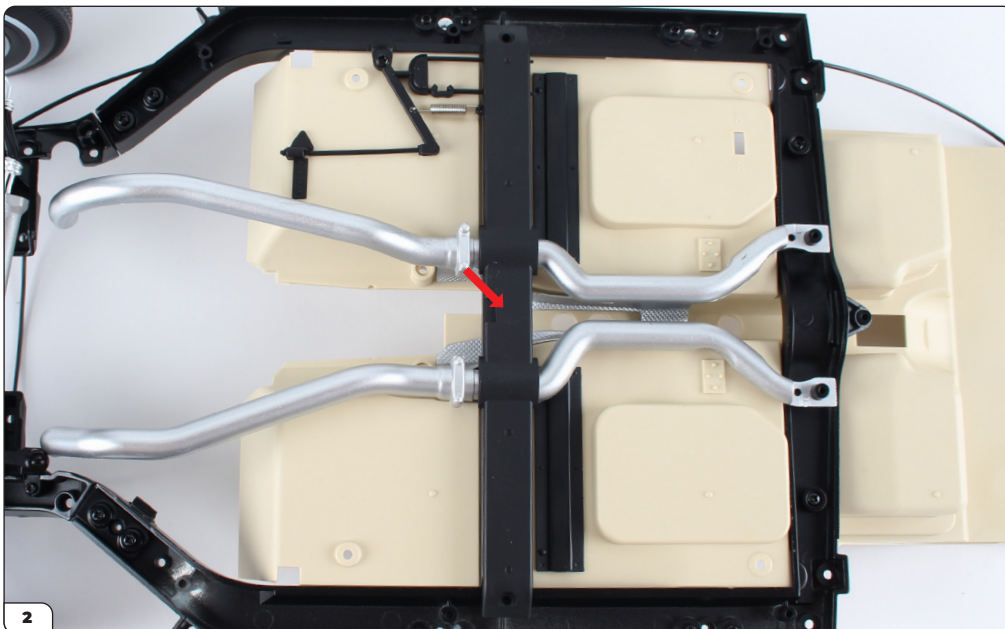
Name
Cross beam cover
Exhaust pipe (L)
Exhaust pipe (R)
DM screw x3



Stage 24: Attaching the Exhaust Pipes



The exhaust pipes are marked "L" and "R" as indicated. Fit them onto the chassis frame as shown and secure using 2x DM screws.



Press the cross beam cover over the exhaust pipes onto the frame (arrow).

Stage 24: Attaching the Exhaust Pipes

STAGE COMPLETE

