



E-TYPE



Pack 06

BUILD INSTRUCTIONS

STAGE 41: RIGHT FRONT WHEEL

STAGE 42: FRONT FLOOR PANEL

STAGE 43: FLOOR PANEL ASSEMBLY

STAGE 44: FINAL DRIVE UNIT

STAGE 45: REAR SUBFRAME

STAGE 46: REAR SUBFRAME
LEFT SUSPENSION

STAGE 47: REAR SUBFRAME
RIGHT SUSPENSION

STAGE 48: INSTALLING THE
REAR SUBFRAME

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 Jaguar, the left or right hand side refers to each side as 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 41: Right Front Wheel

In this stage you'll fix the right front wheel to the subframe.



STAGE 41 PARTS LIST

Name
Tyre
Washer
Screws type AM07 x2



Stage 41: Right Front Wheel

STEP 1



Take the completed wheel from stage 40. Prepare a hot water bath by filling a small bowl with boiling water. Soak the tyre in the water for 2 minutes.

Note: The tyre shown in pictures 1-4 is the spare tyre from Stage 25, and differs slightly in the tread pattern from the tyre supplied in this Stage. The method for fitting the tyre is the same.



Carefully remove the tyre from the water bath using tongs or tweezers - the tyre will be very hot! Shake off any excess water and dab on kitchen paper or a towel.

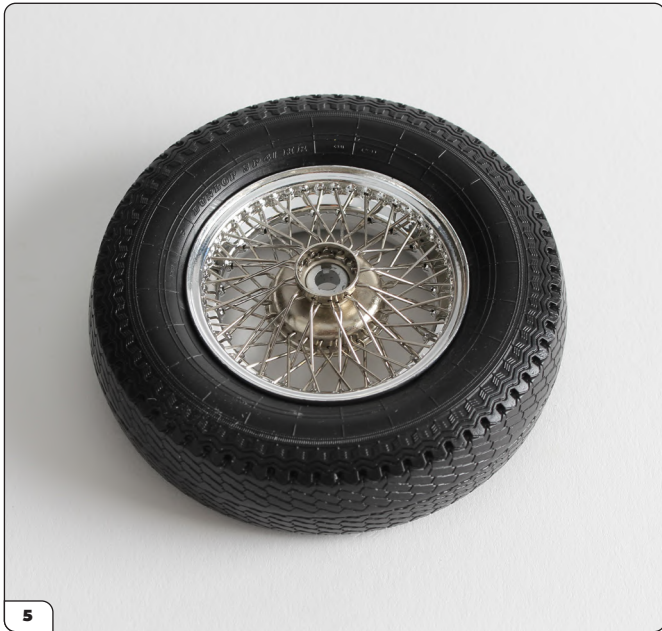


Working quickly while the tyre is pliable, push the wheel into the tyre and twist to fit the outer wheel rim under the inner rim of the tyre.



Keep pushing and pulling, working around the tyre, until the side walls fit comfortably over the wheel rim on both sides.

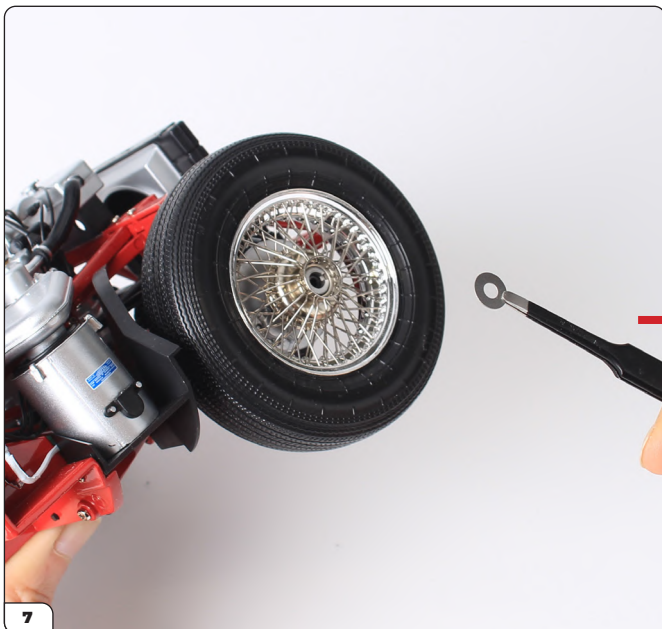
Stage 41: Right Front Wheel



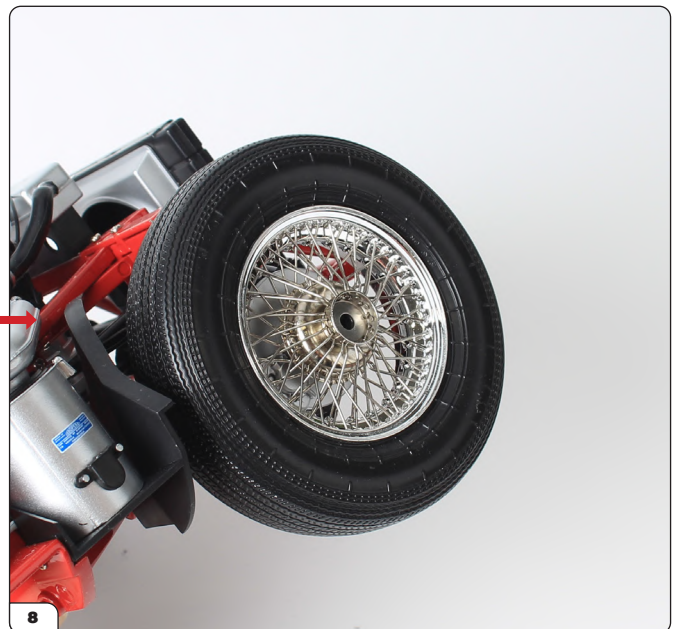
The tyre has been fully fitted to the wheel and is now ready to fix to the front subframe assembly from Stage 37.



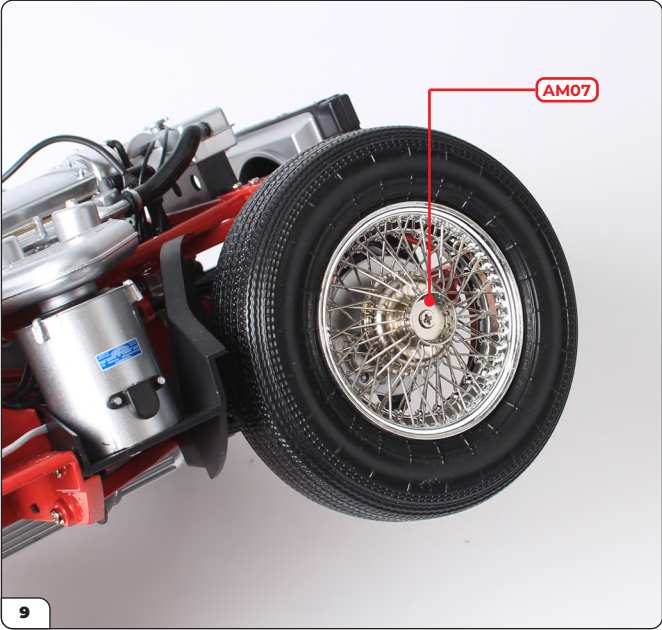
Holding the wheel as shown, align the two lugs on the wheel centre with the two notches in the right front axle. Position the wheel in place, ensuring the lugs fit into the notches.



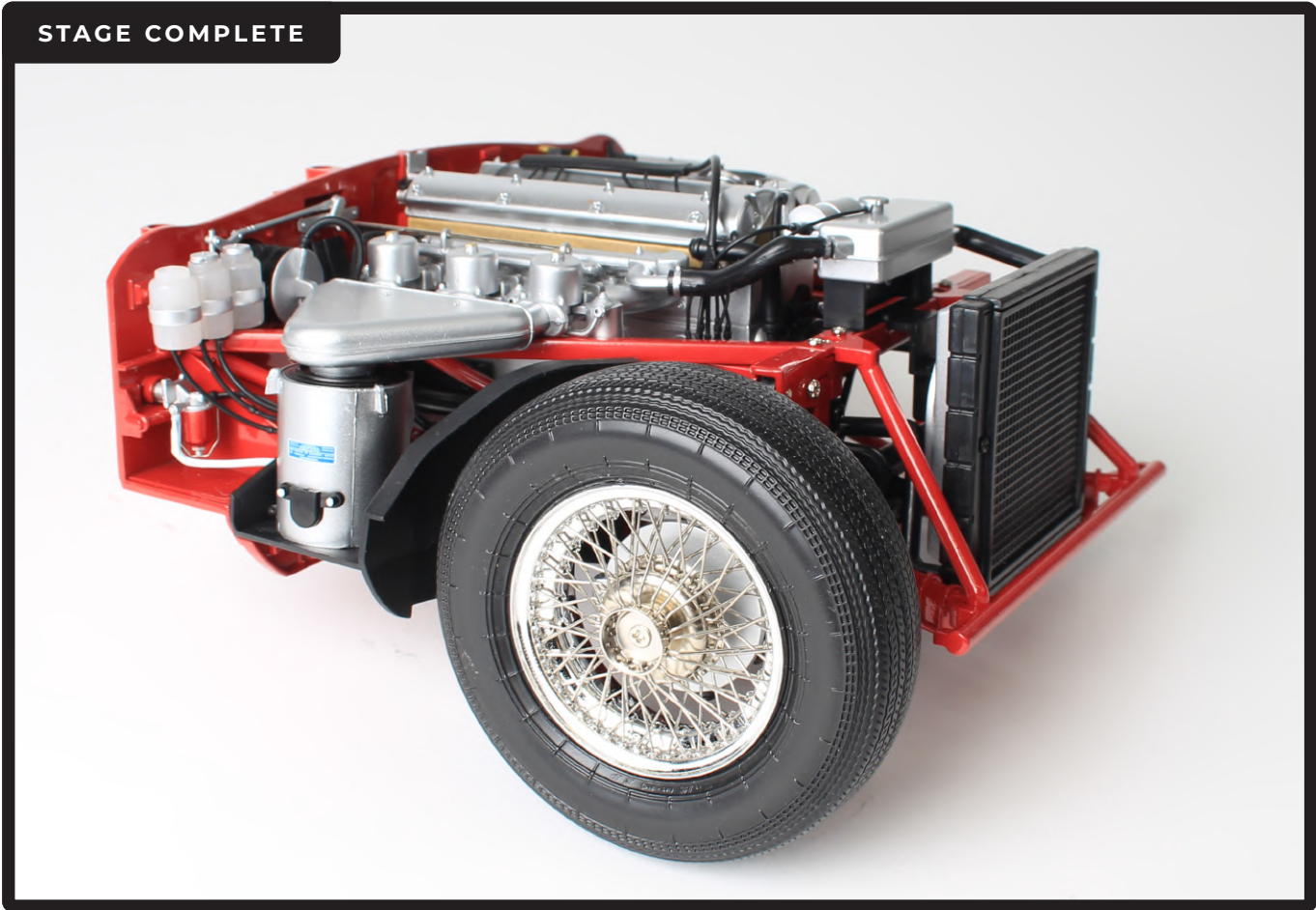
Take the washer and drop it onto the end of the stub axle, as shown in picture 8.



Stage 41: Right Front Wheel

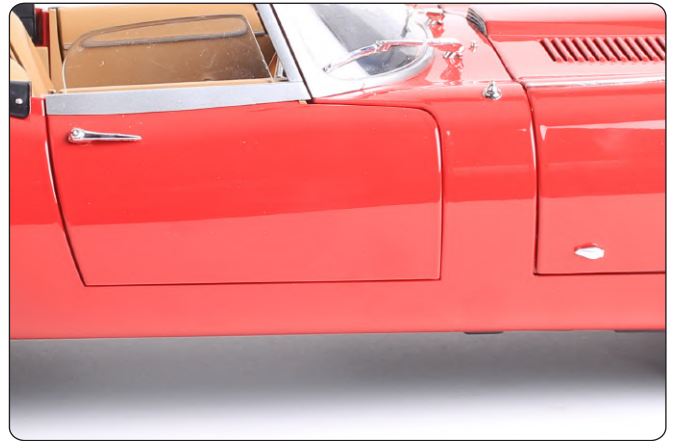


Secure the washer and right wheel in place using a type AM07 screw.



Stage 42: Front Floor Panel

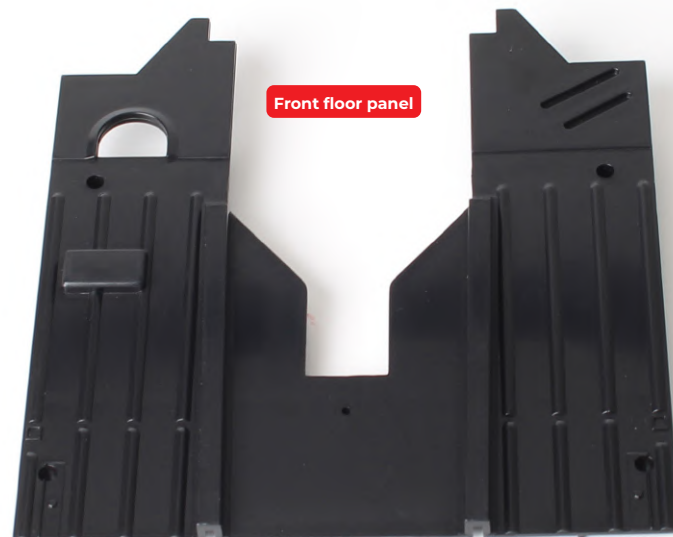
There is no assembly in this Stage, unpack the front floor panel and move straight to Stage 43.



STAGE 42 PARTS LIST

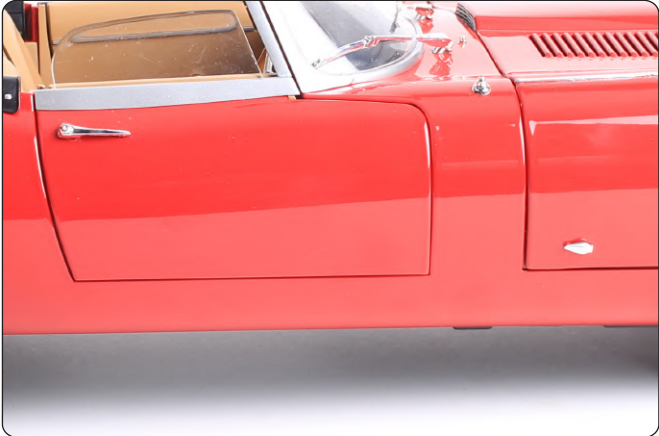
Name

Front floor panel



Stage 43: Floor Panel Assembly

Now you'll assemble the floor panel, attaching the front and rear components together.



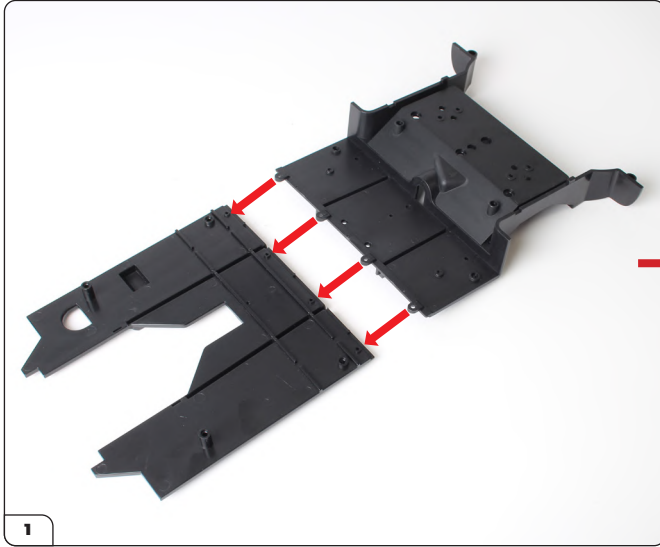
STAGE 43 PARTS LIST

Name
Rear floor panel
Screws type AG06 x5

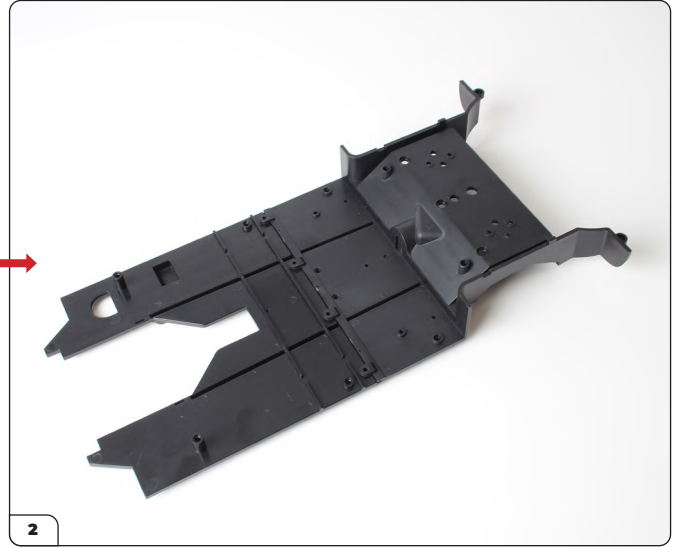


Stage 43: Floor Panel Assembly

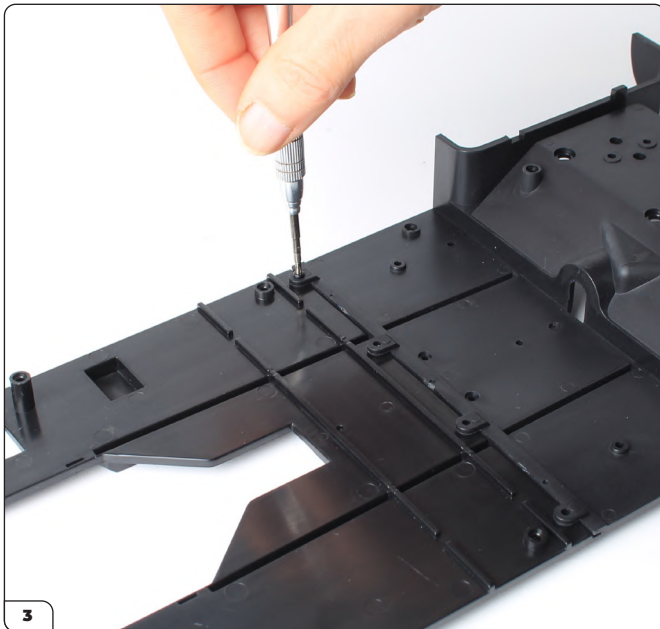
STEP 1



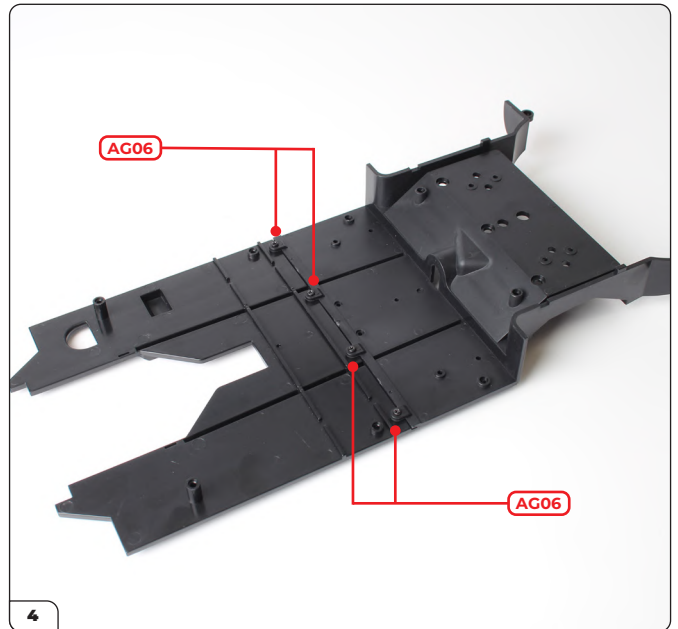
Take the rear floor panel and the front floor panel from Stage 42. Line up the four screw holes on the rear panel with the protruding holes on the front panel as shown.



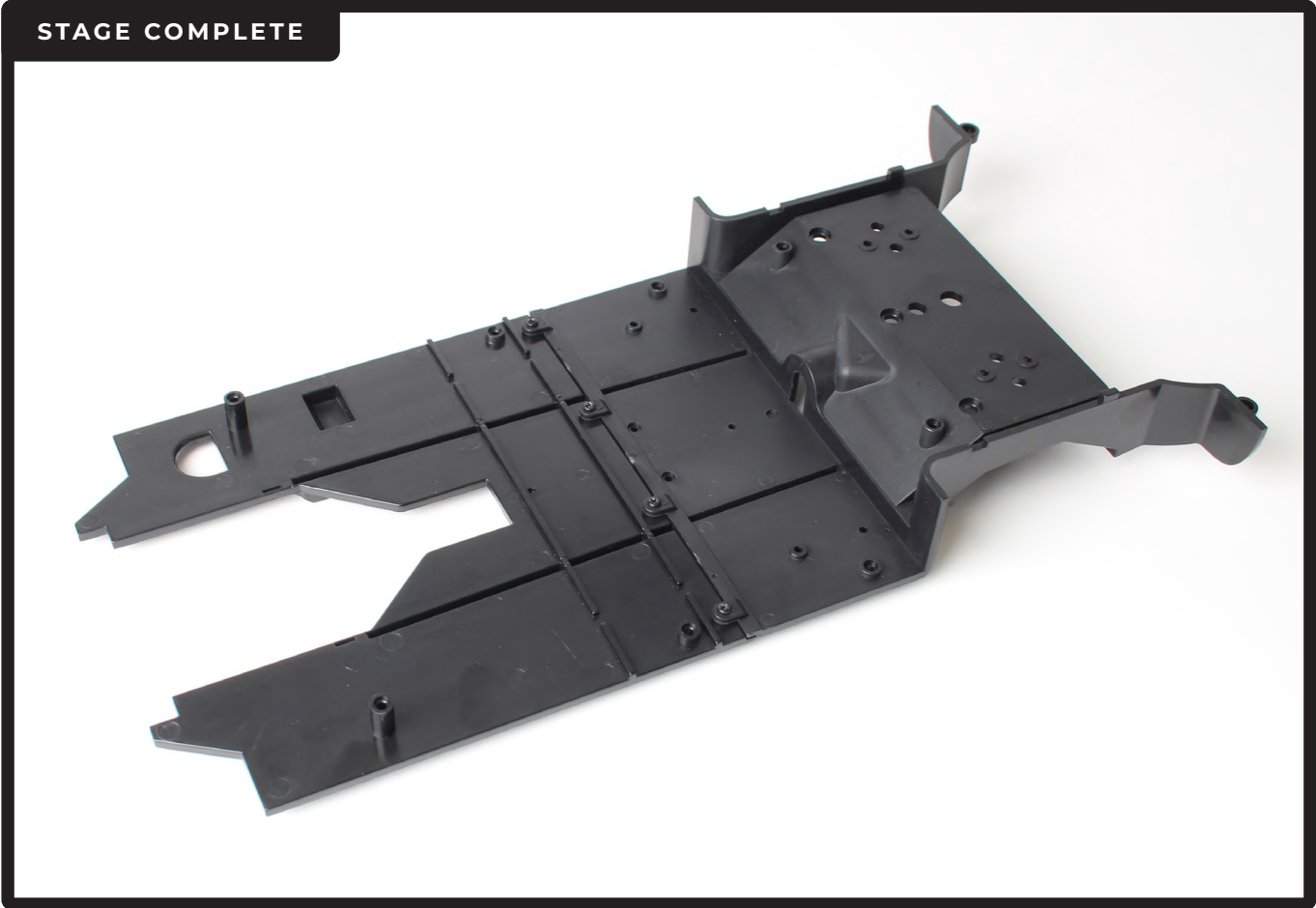
Fit the rear panel onto the front panel.



Screw the parts together using 4x type AG06 screws.



Stage 43: Floor Panel Assembly



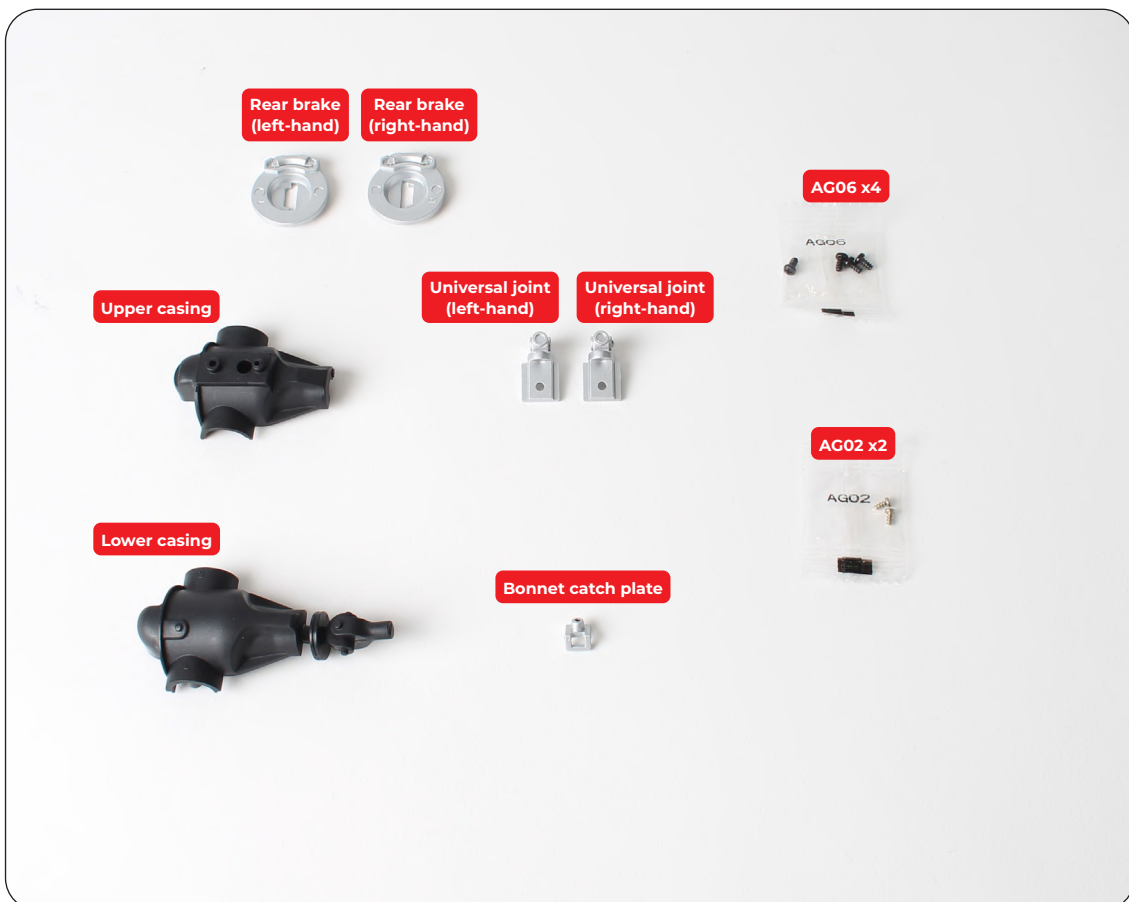
Stage 44: Final Drive Unit

In this next stage you will build the final drive unit and attach the bonnet catch plate to the front subframe assembly.



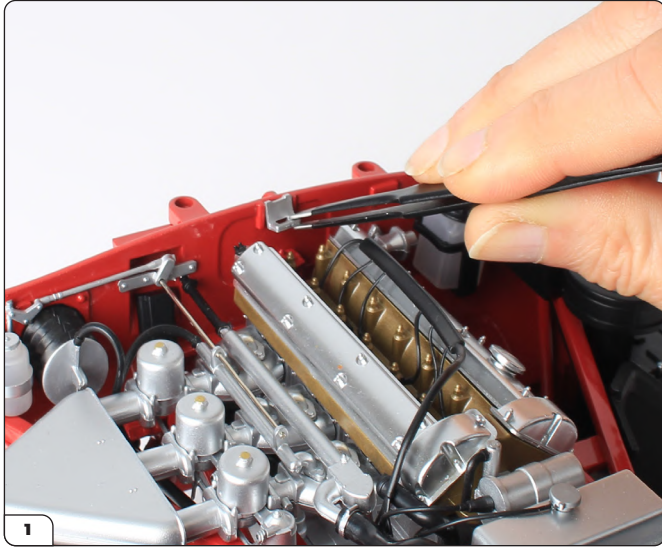
STAGE 44 PARTS LIST

Name
Rear brake (left-hand)
Rear brake (right-hand)
Upper casing
Universal joint (left-hand)
Universal joint (right-hand)
Lower casing
Bonnet catch plate
Screws typr AG06 x4
Screws type AG02 x2

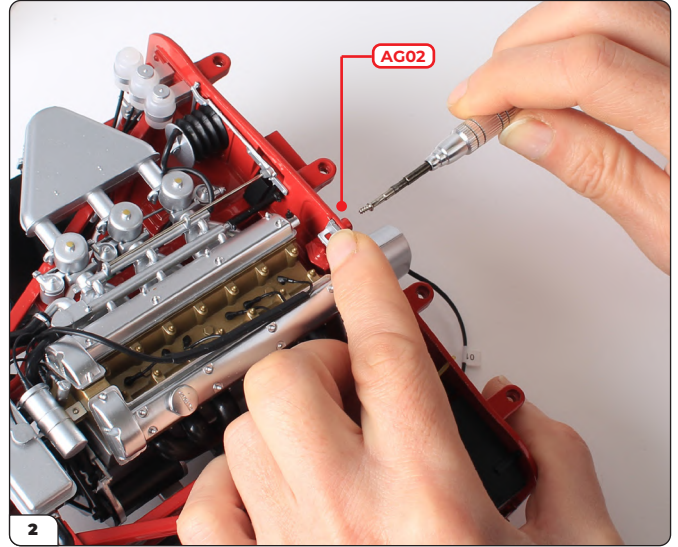


Stage 44: Final Drive Unit

STEP 1

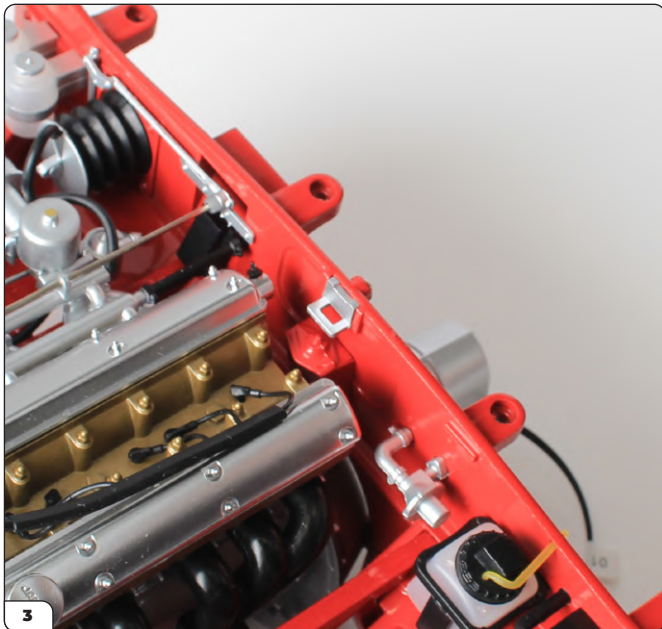


Take the bonnet catch plate and the front subframe assembly. Fit the pin on the back of the catch plate into the hole located in the centre of the front bulkhead.

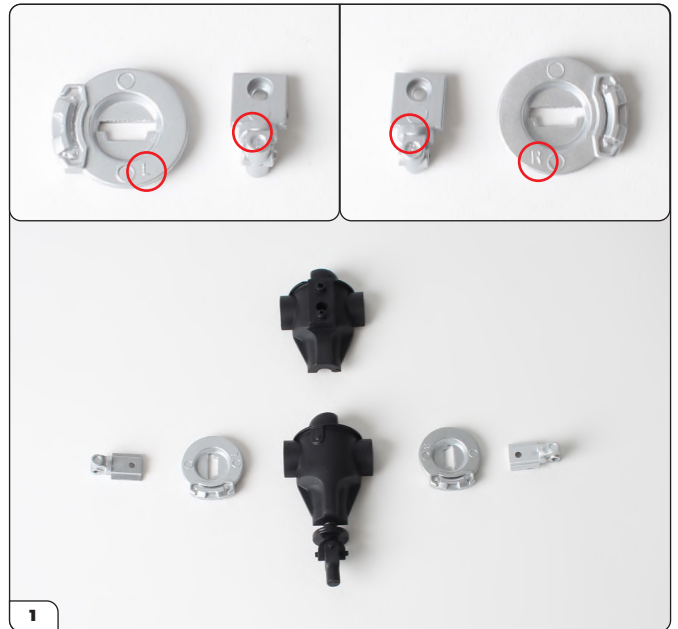


Holding the catch plate in place, fix it to the bulkhead using a type AG02 screw as shown. Be careful not to over-tighten this screw.

STEP 2



The front subframe assembly should now look like this, with the bonnet catch plate in place.



Take the upper and lower casing parts, along with the two rear brakes and two universal joints. Match up the left rear brake with the left universal joint by locating the 'L' on the parts (inset).

Do the same for the right rear brake and joint by locating the 'R'.

Stage 44: Final Drive Unit



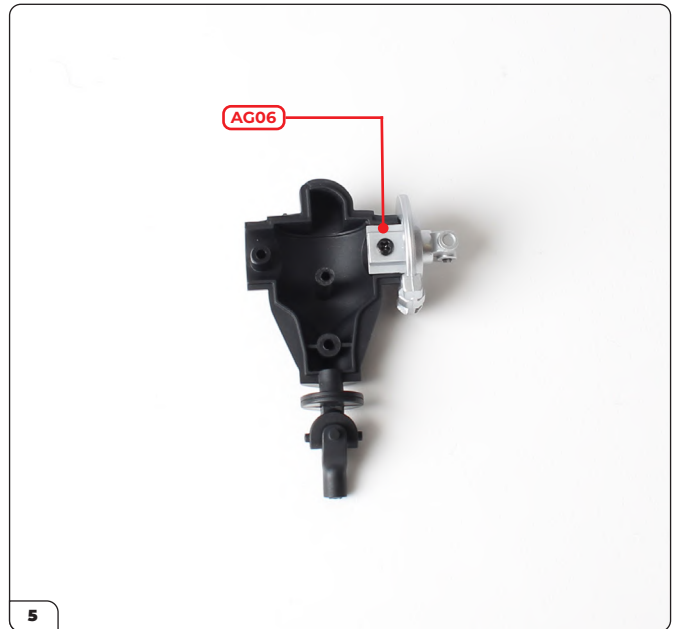
Take the left universal joint and align it with the slot in the left rear brake as shown.



Fit the universal joint into the rear brake.

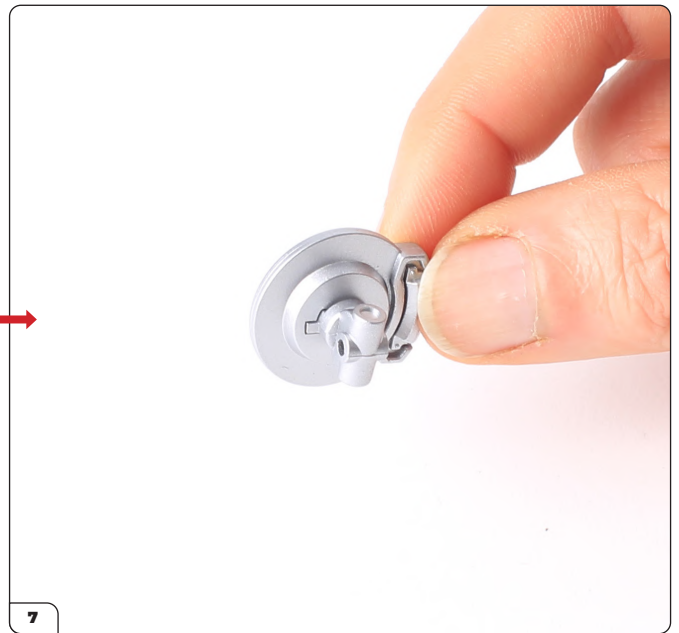


Then fit the universal joint and brake assembly onto the lower casing as shown.



Secure in place using a type AG06 screw.

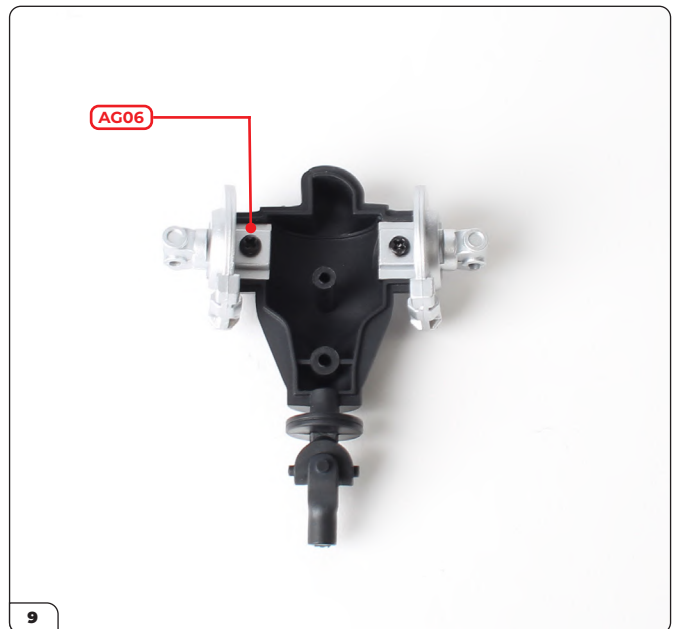
Stage 44: Final Drive Unit



Take the right universal joint and fit into the right rear brake.

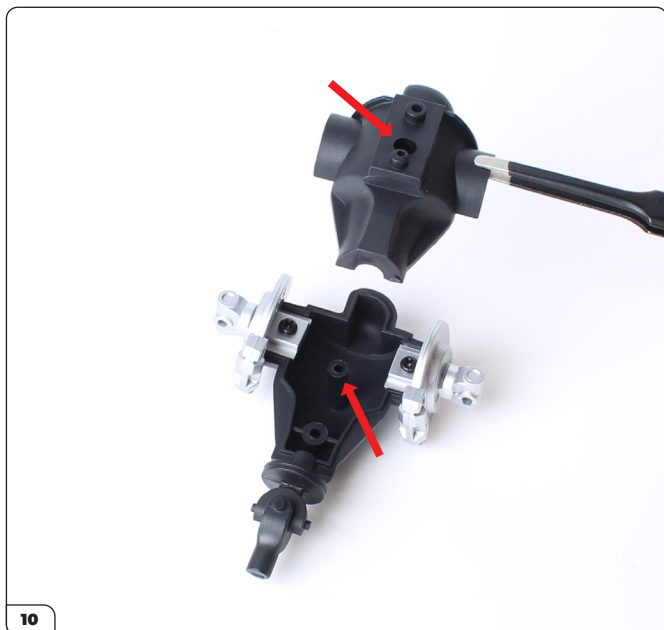


Fit into the lower casing as shown.



Fix in place with a type AG06 screw.

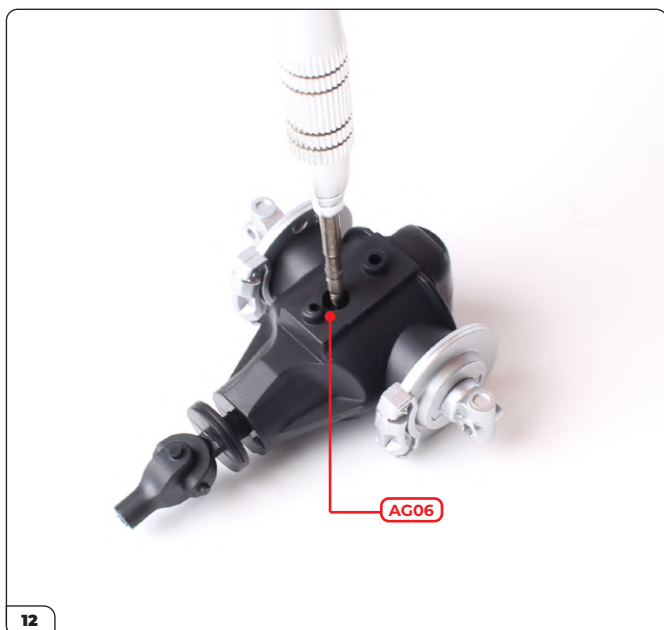
Stage 44: Final Drive Unit



Take the upper casing and fit it onto the bottom casing, aligning the central pillar on the bottom half with the hole of the top half (arrows).



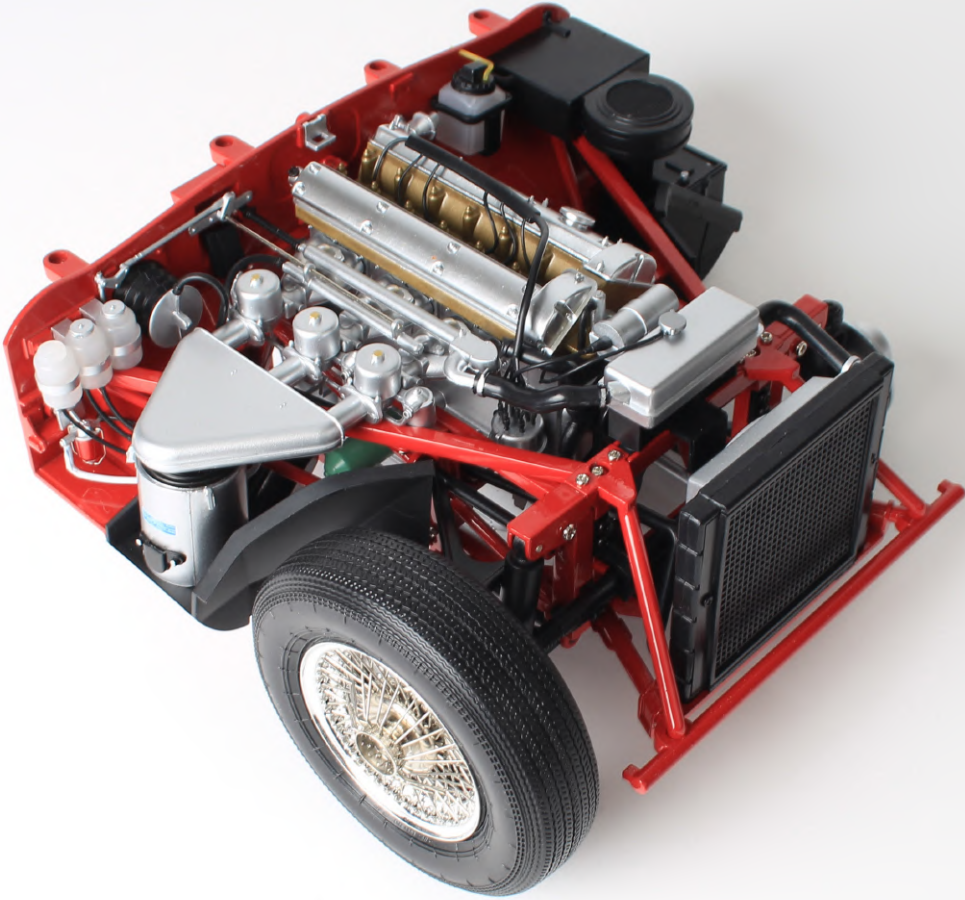
The two halves should fit together as shown. Check that the joint is flush all the way around.



Fit a type AG06 screw through the hole in the top of the casing to fix the two halves together.

Stage 44: Final Drive Unit

STAGE COMPLETE



Stage 45: Rear Subframe

In this stage you'll attach the final drive unit and the handbrake linkage to the rear subframe.



STAGE 45 PARTS LIST

Name
Rear subframe
Handbrake linkage
Screws type AG04 x2
Screws type AG06 x2
Screws type AM18 x3



Stage 45: Rear Subframe

STEP 1



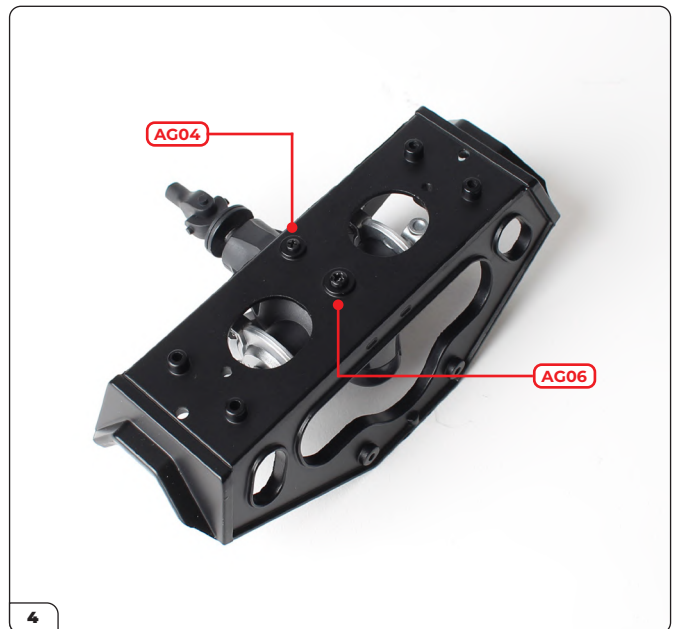
Align the drive unit from Stage 44 with the rear subframe, noting the holes at the centre of the subframe and the posts on the drive unit (circled).



Insert the drive unit through the opening in the subframe as shown.



The drive unit should project through the opening in the subframe with the posts fitting into the screw holes indicated in picture 1.



Holding the drive unit in place, turn the subframe over and secure the assembly with 1 x type AG04 screw and 1 x type AG06 screw.

Note: be aware two different screws are used. Make sure to screw the correct type in place to avoid damaging the threads.

Stage 45: Rear Subframe



Take the handbrake linkage and align it with the subframe. Note the locating pin on the handbrake linkage which will fit into the hole on the subframe (arrow).



Push the pin into place, fitting the two arms of the handbrake linkage into the opening of the subframe.

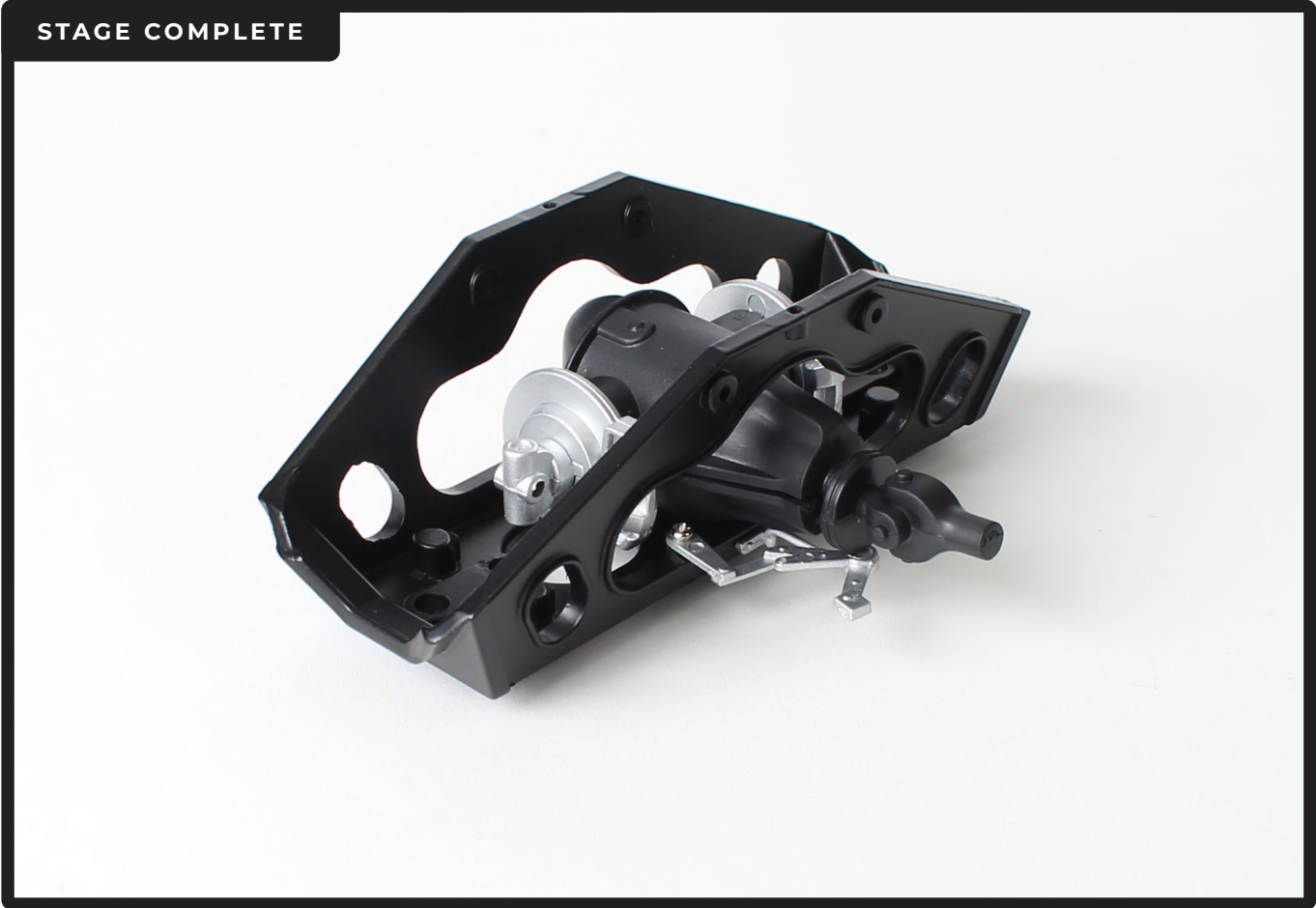


Once in place the handbrake linkage should look like this.



Screw both of the arms to the subframe using 2 x AM18 type screws. Be careful not to over-tighten these screws.

Stage 45: Rear Subframe



Stage 46: Rear Subframe Left Suspension

In Stage 46 you'll assemble the first half of the rear suspension.



STAGE 46 PARTS LIST

Name
Long spindle
Shock absorber bodies
Shock absorber pistons x2
Coil springs x2
Universal joint
Mounting plate
Medium spindle
Left-hand wishbone
Left-hand halfshaft
Hub carrier
Short spindles x3
Screws type AG04 x2
Screws type AG05 x3
Screws type AG06 x2
Screws type AM16 x3



Stage 46: Rear Subframe Left Suspension

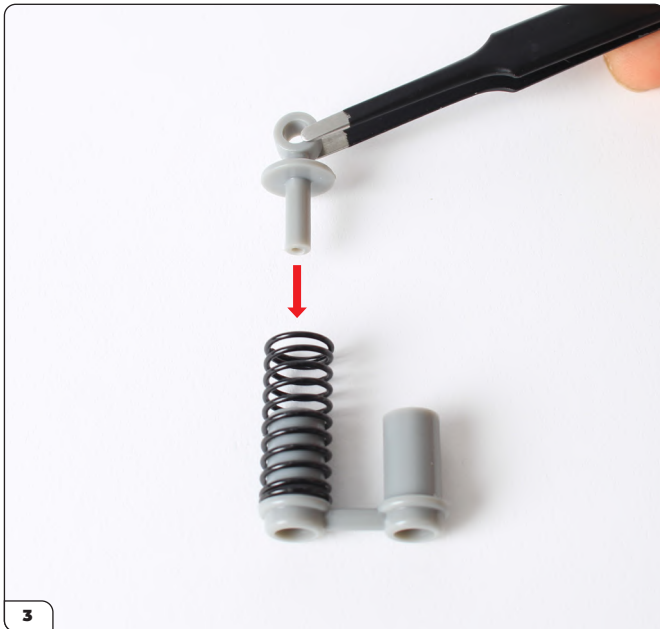
STEP 1



1 Take the shock absorber bodies and one of the coil springs.



2 Fit the coil spring onto one of the shock absorber bodies as shown.

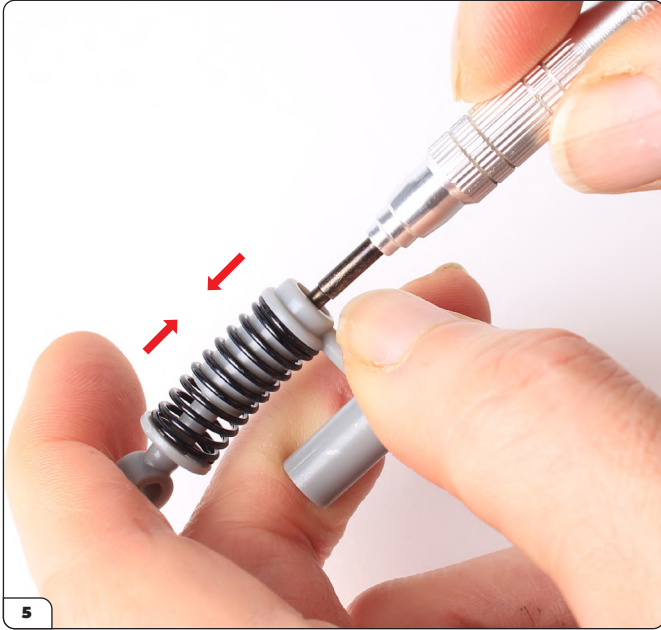


3 Take one of the shock absorber pistons and push it through the coil spring into the shock absorber body, ensuring the piston shaft is inserted into the cylinder of the shock absorber body.



4 Holding the shock absorber together, take a type AG05 screw and insert it into the end of the shaft of the shock absorber body.

Stage 46: Rear Subframe Left Suspension



Gently squeeze the piston and body together, then tighten the screw into the end of the piston shaft to hold the parts together.



The piston should look like this.

Note: the piston should be able to freely rotate.



Take the remaining coil spring and fit it onto the opposite shock absorber body.

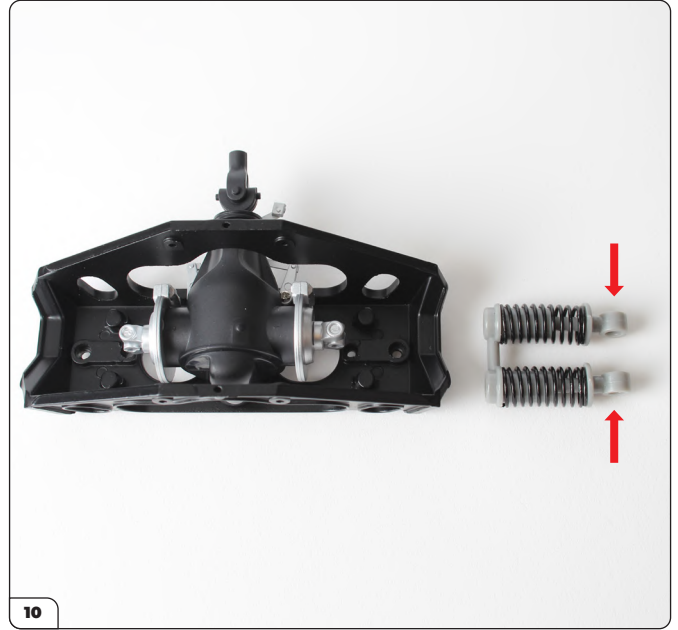


Take the other shock absorber piston and attach to the body with a type AG05 screw, repeating the steps shown in pictures 4 and 5.

Stage 46: Rear Subframe Left Suspension



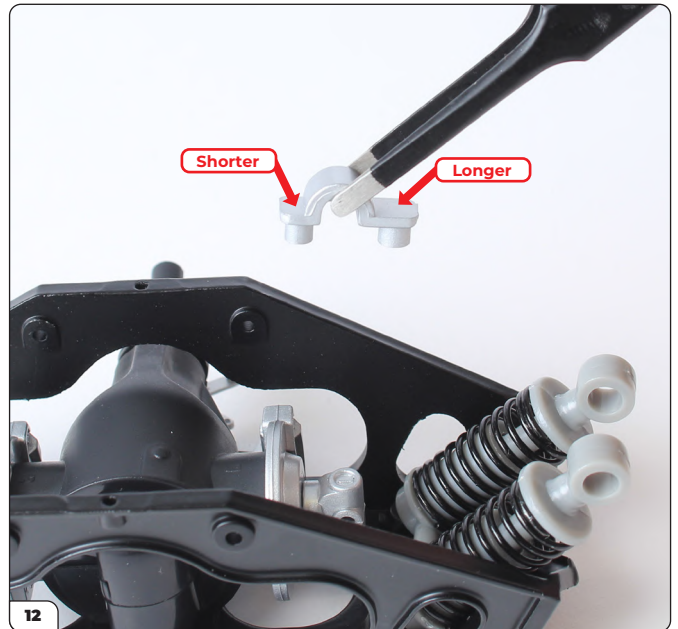
The completed shock absorbers will look like this when assembled.



Take the rear subframe from Stage 45. Rotate the shock absorber pistons so that the eyes are facing each other as shown (arrows).



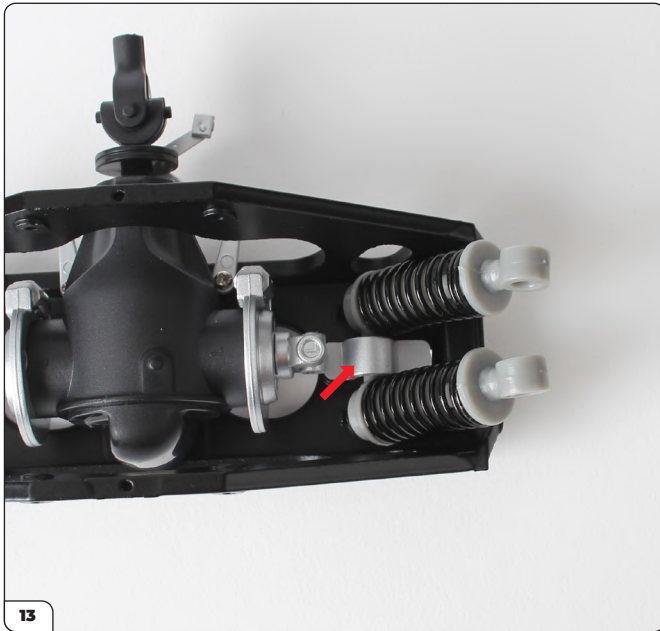
Place the shock absorber into the subframe as shown, so that the bar on the shock absorber (arrow) is between the two holes on the base of the subframe.



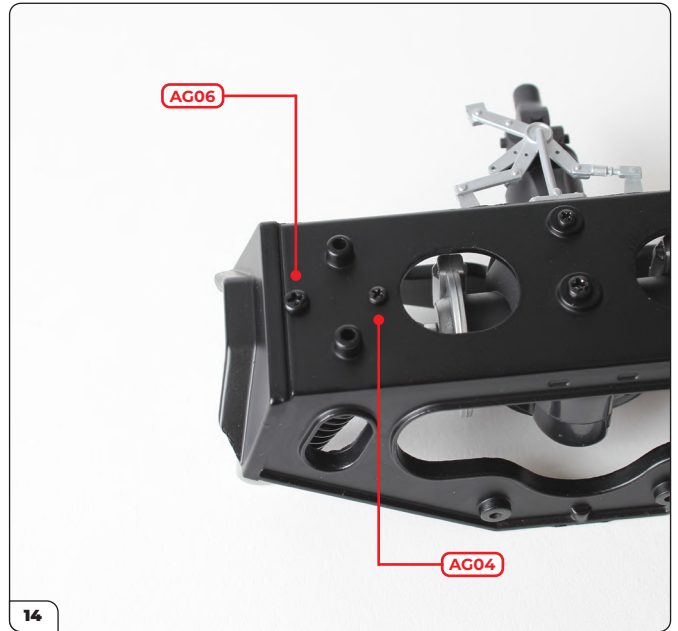
Take the mounting plate and align it so that the shorter end is pointing inwards towards the drive unit.

Tip: You may find it easier to put the mounting plate over the shock absorber assembly and put them into the subframe together.

Stage 46: Rear Subframe Left Suspension



Position the mounting plate into the holes on the base of the subframe so that the curved section covers the bar on the shock absorber (arrow).

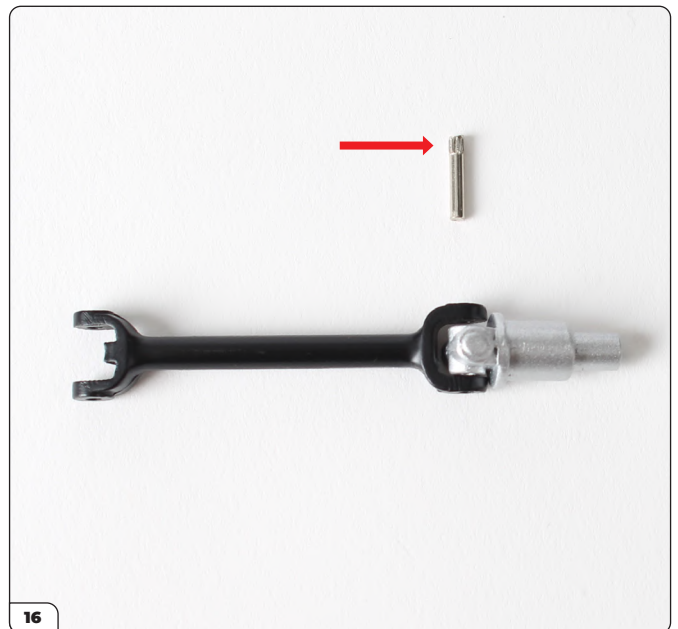


Holding the mounting plate in position, turn the subframe over and secure from the underside with 1 x type AG06 screw and 1 x type AG04 screw as shown.

Note: be aware two different screws are used. Make sure to screw the correct type in place to avoid damaging the threads.

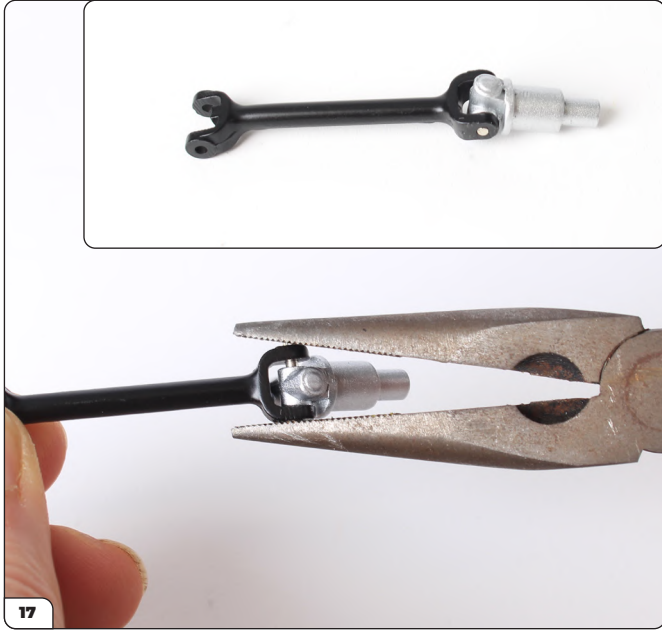


Take the left-hand halfshaft and the universal joint. Fit the joint into the end of the halfshaft that does not have a lug (circled) in the centre. Ensure that the holes in the universal joint align with the holes on the end of the halfshaft.

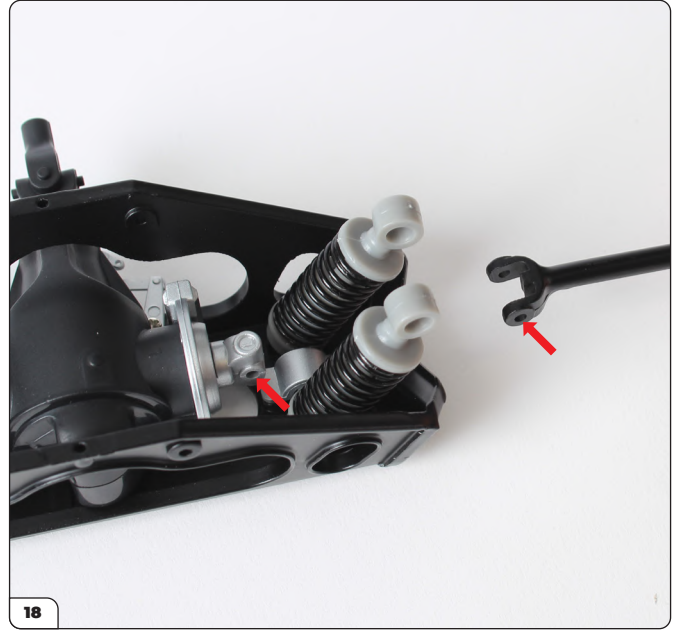


Take one of the short spindles. Note that the spindles have a smooth end and a ribbed end (arrow).

Stage 46: Rear Subframe Left Suspension

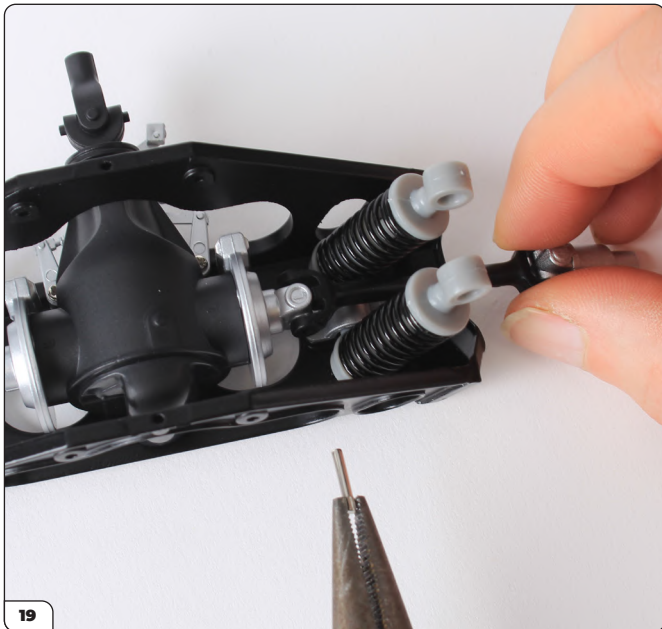


Insert the smooth end of the spindle through the halfshaft and into the universal joint. Using pliers, press the spindle into place until the ends are flush on both sides (inset).



Align the free end of the halfshaft with the subframe. Fit the halfshaft so that the holes align with the holes of the universal joint of the final drive unit (arrows).

Note that the drive shaft should be angled upwards, away from the subframe.

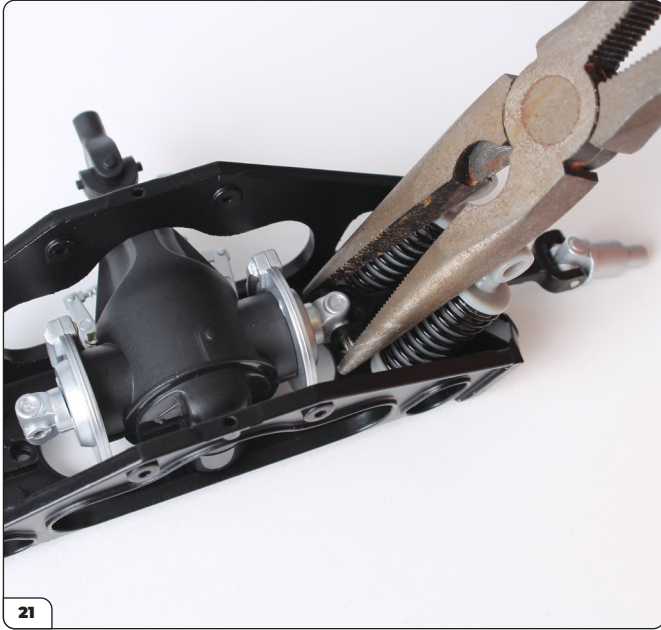


Take another short spindle, gripping the ribbed end with pliers or tweezers as shown. Hold the halfshaft in place.

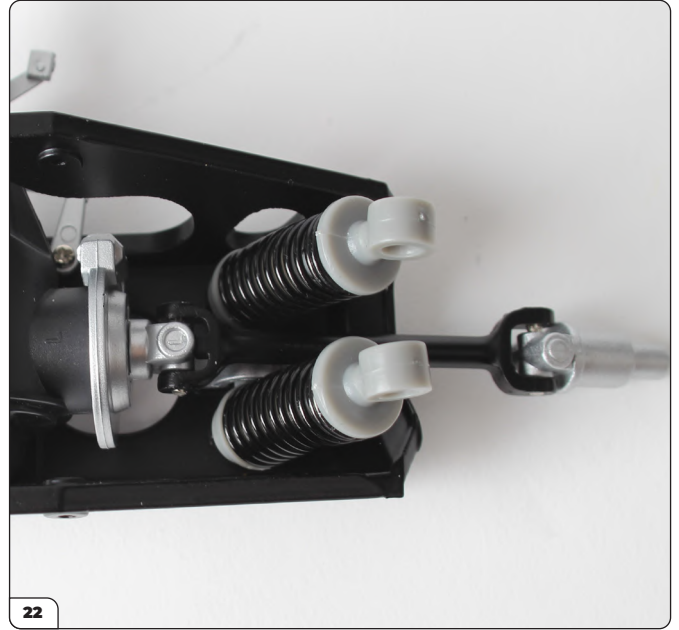


Using the opening on the side of the subframe, fit the smooth end of the spindle into the halfshaft and universal joint.

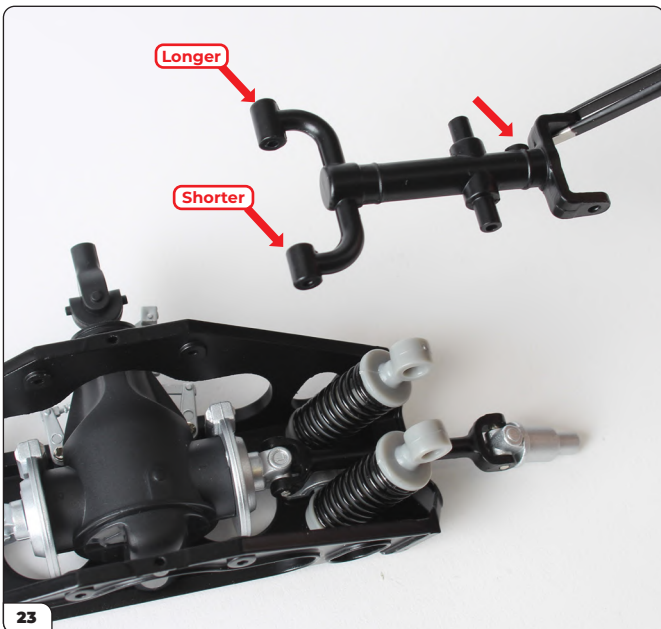
Stage 46: Rear Subframe Left Suspension



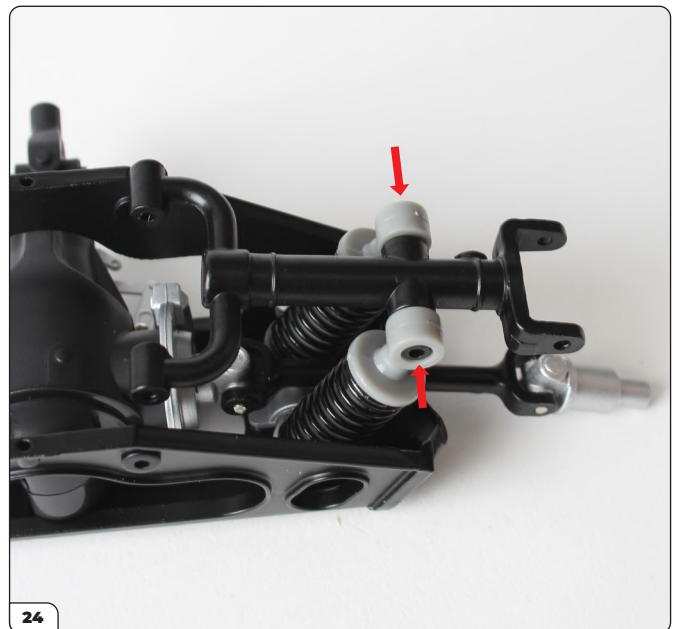
Squeeze the ends of the spindle into place until the ribbed end is flush with the halfshaft.



The halfshaft should look like this once in place.

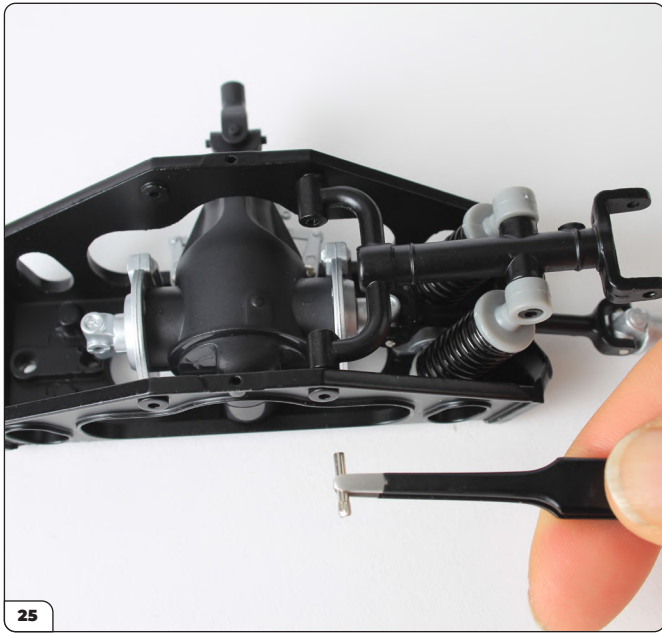


Take the wishbone and align it with the rear subframe assembly as shown. Note one of the pivots is slightly larger than the other, and there is a lug on one side of the shaft (arrows).

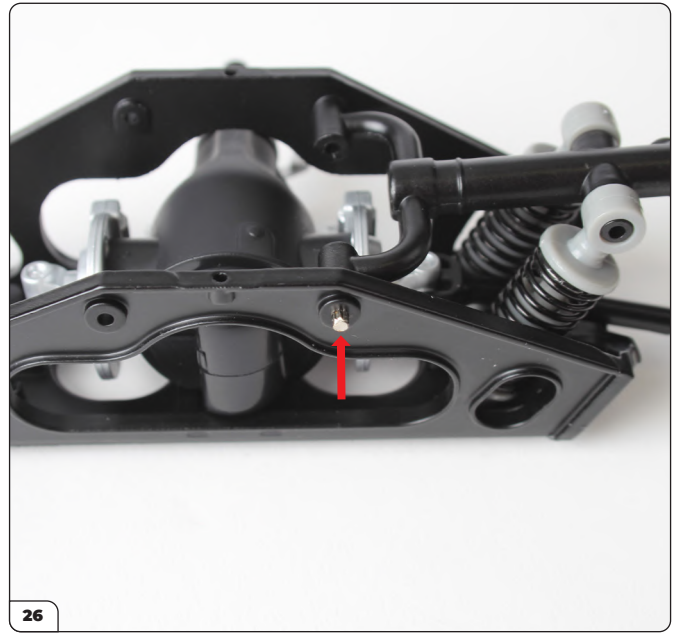


Ease the wishbone into the two eyes of the shock absorber piston.

Stage 46: Rear Subframe Left Suspension



Take the remaining short spindle and align it so the ribbed end is facing outward.



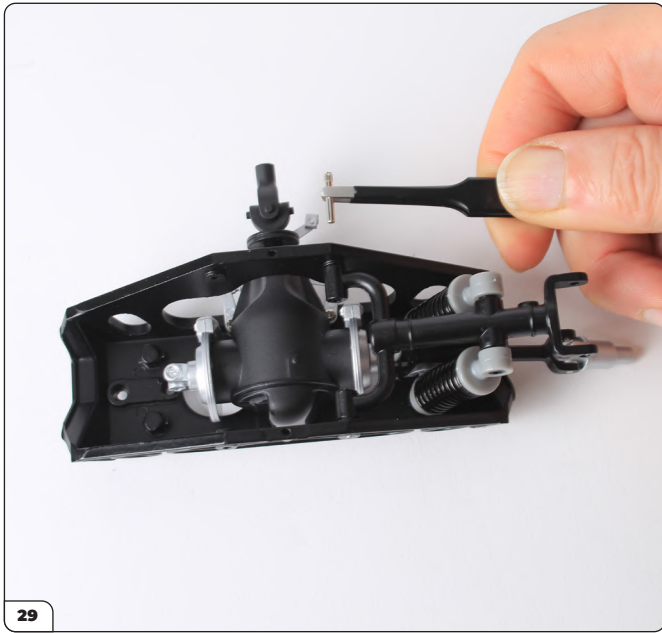
Push the spindle into the subframe and through the pivot of the wishbone.



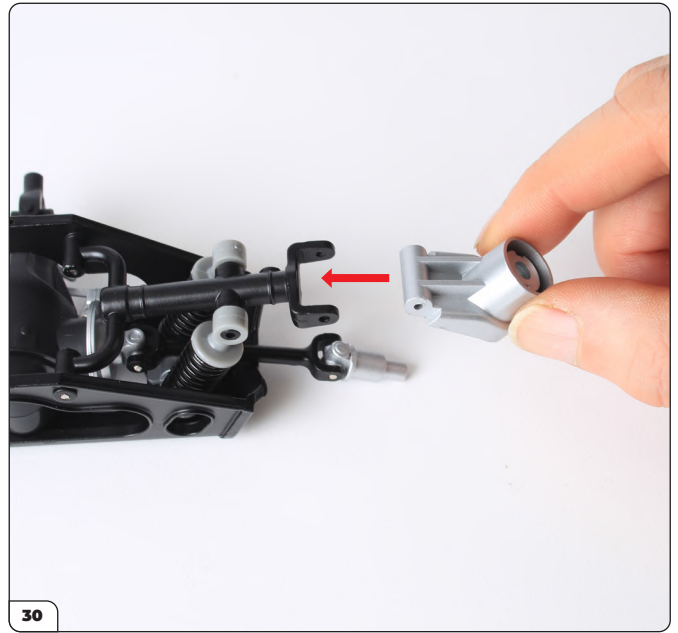
Squeeze the spindle into place until it fits flush with the subframe.



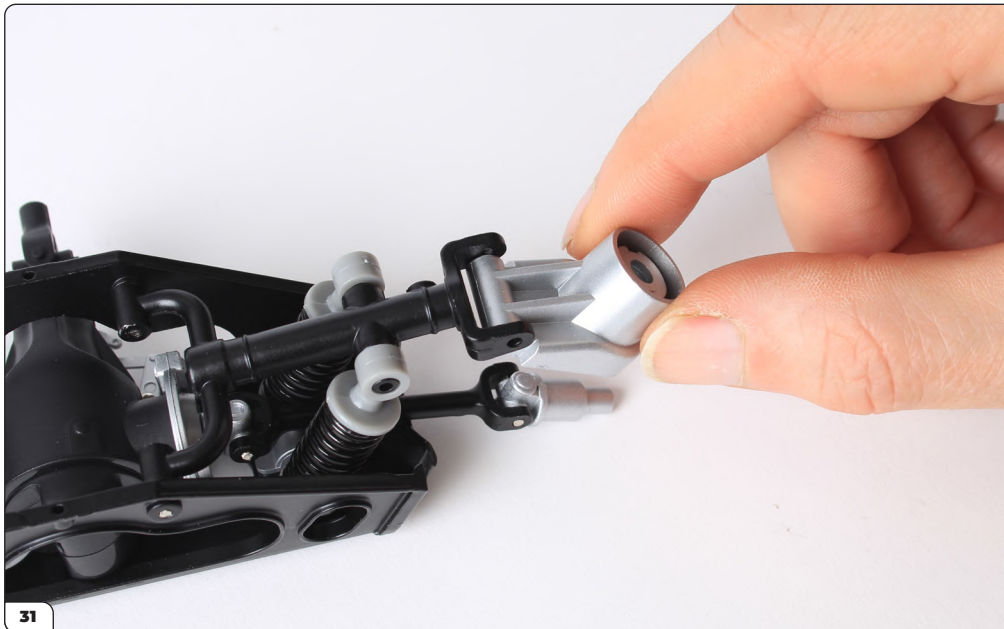
Stage 46: Rear Subframe Left Suspension



Repeat on the opposite side, pushing the medium spindle through the holes of the rear subframe and wishbone pivot. Squeeze the spindle with pliers until it fits flush.

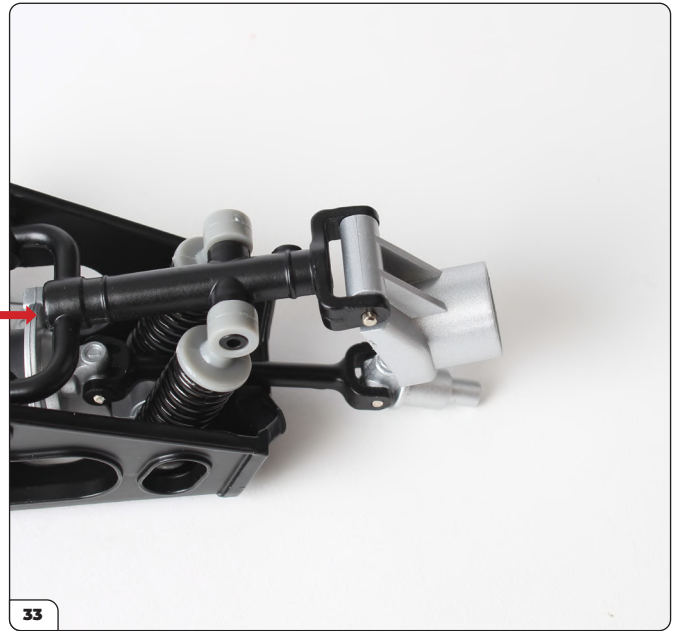
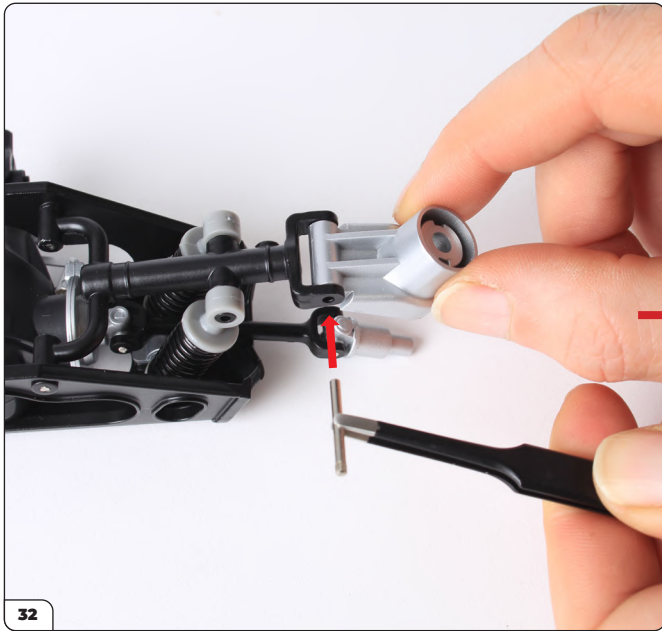


Take the hub carrier and align it with the free end of the wishbone as shown.

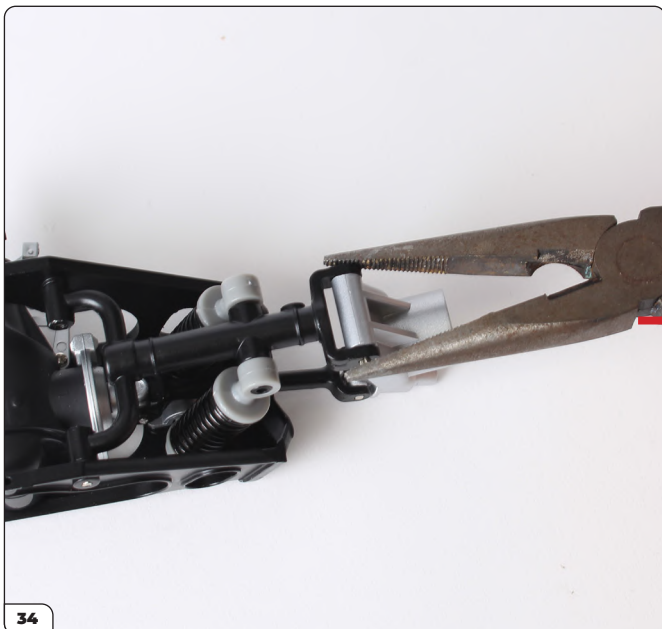


Position the hub carrier in the wishbone ensuring that the small holes are aligned.

Stage 46: Rear Subframe Left Suspension

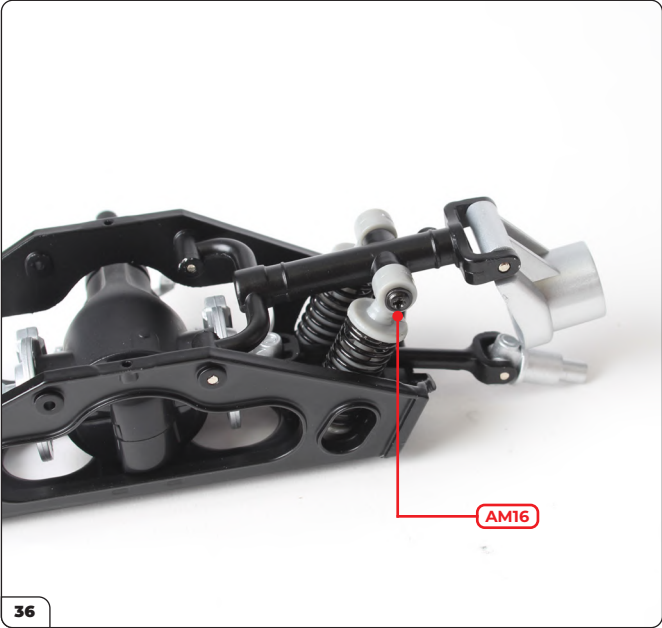


Holding the hub carrier in place, push the smooth end of the long spindle through the wishbone/hub carrier joint.

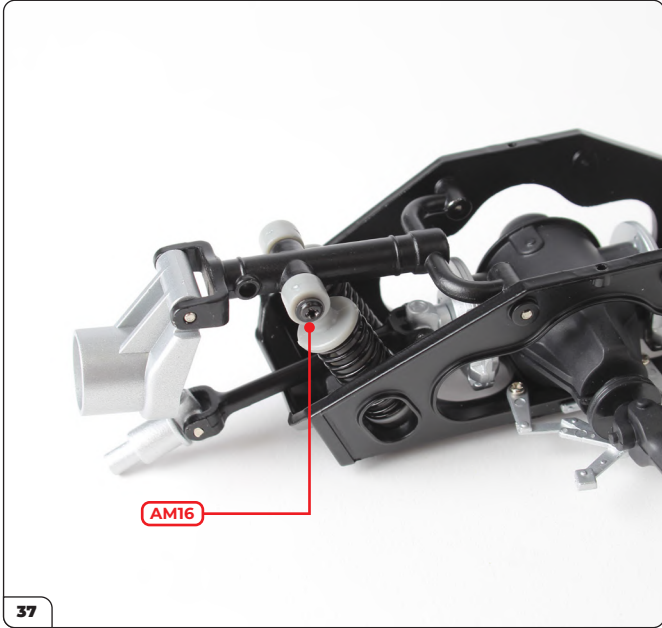


Squeeze the spindle into place until it sits flush.

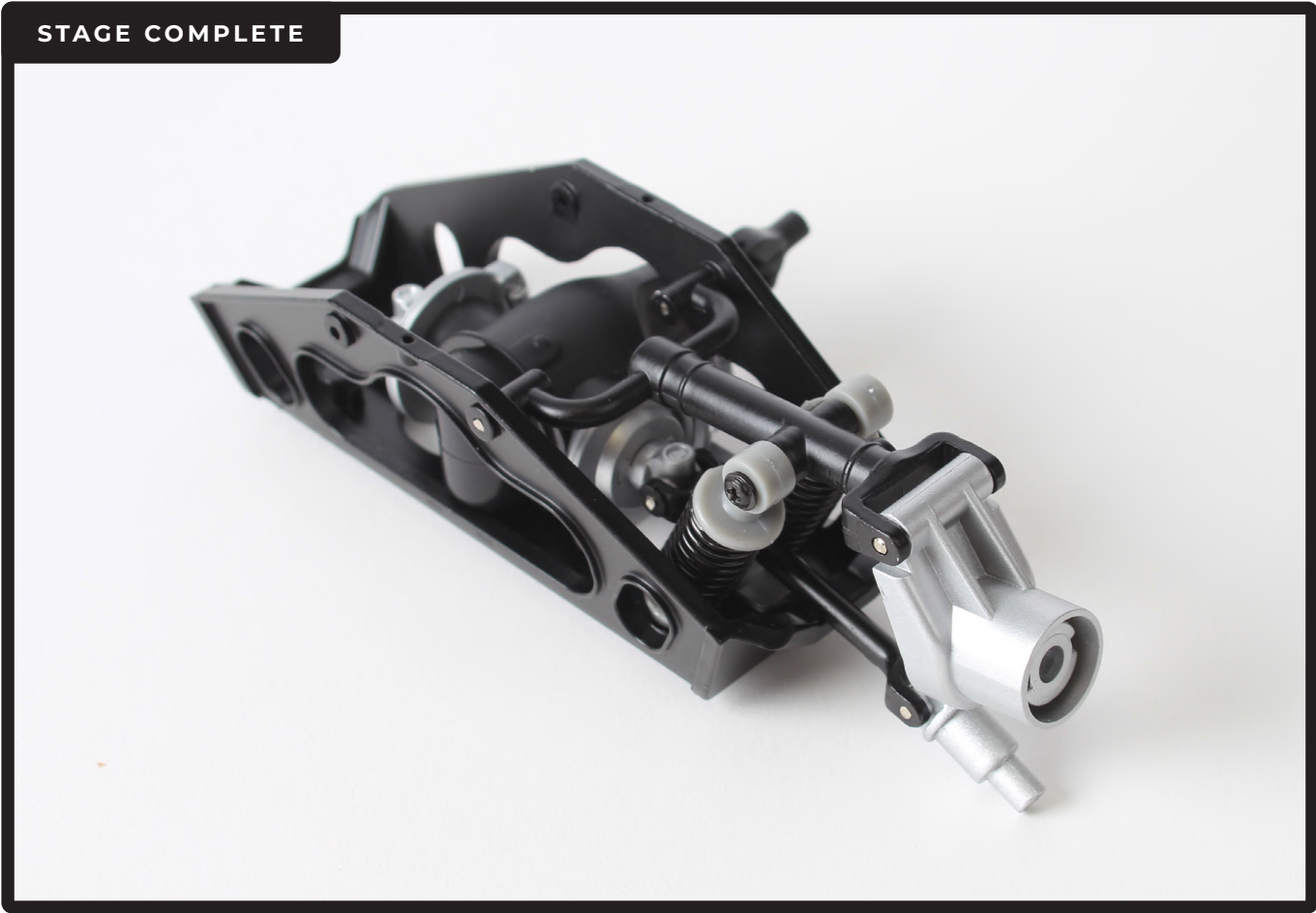
Stage 46: Rear Subframe Left Suspension



Insert a type AM16 screw into the eye of the shock absorber piston.



Repeat on the opposite side with another type AM16 screw.



Stage 47: Rear Subframe Right Suspension

Now you'll repeat the steps in Stage 46 to assemble the second half of the rear suspension.



STAGE 47 PARTS LIST

Name
Long spindle
Shock absorber bodies
Shock absorber pistons x2
Coil springs x2
Universal joint
Mounting plate
Medium spindle
Right-hand wishbone
Right-hand halfshaft
Hub carrier
Short spindles x3
Screws type AG04 x2
Screws type AG05 x3
Screws type AG06 x2
Screws type AM16 x3



Stage 47: Rear Subframe Right Suspension

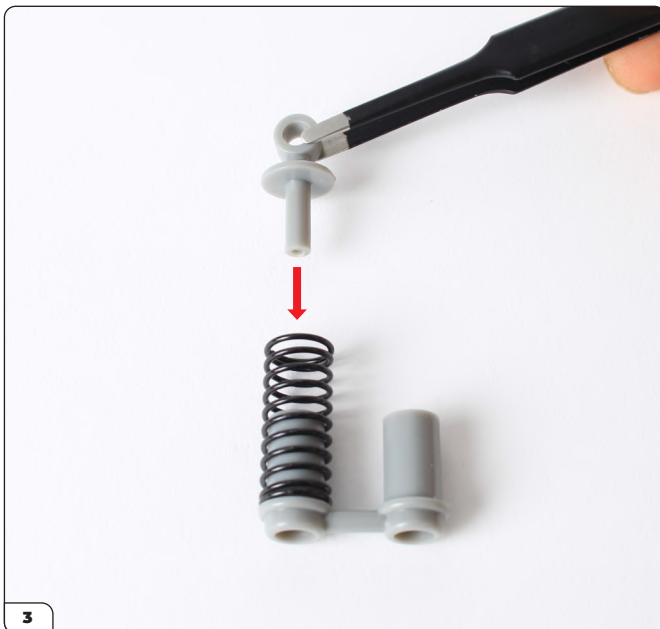
STEP 1



Take the shock absorber bodies and one of the coil springs.



Fit the coil spring onto one of the shock absorber bodies as shown.



Take one of the shock absorber pistons and push it through the coil spring into the shock absorber body, ensuring the piston shaft is inserted into the cylinder of the shock absorber body.



Holding the shock absorber together, take a type AG05 screw and insert it into the end of the shaft of the shock absorber body.

Stage 47: Rear Subframe Right Suspension



Gently squeeze the piston and body together, then tighten the screw into the end of the piston shaft to hold the parts together.



The piston should look like this.

Note: the piston should be able to freely rotate.



Take the remaining coil spring and fit it onto the opposite shock absorber body.

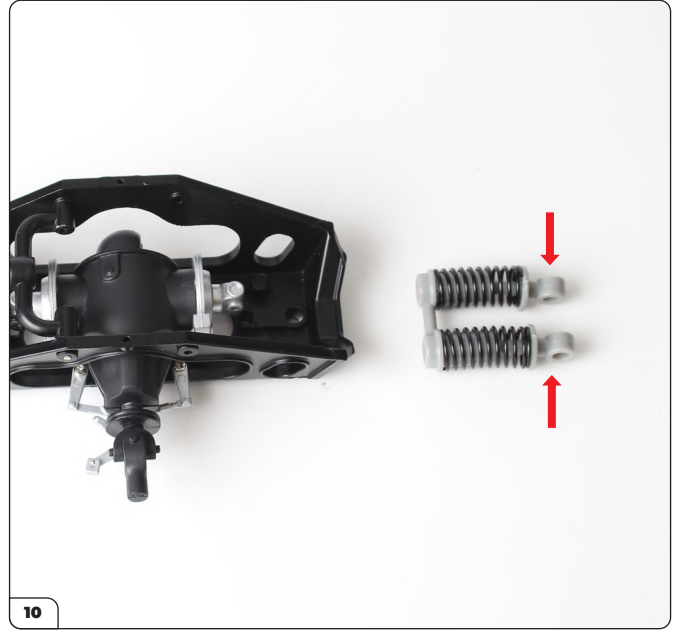


Take the other shock absorber piston and attach to the body with a type AG05 screw, repeating the steps shown in pictures 4 and 5.

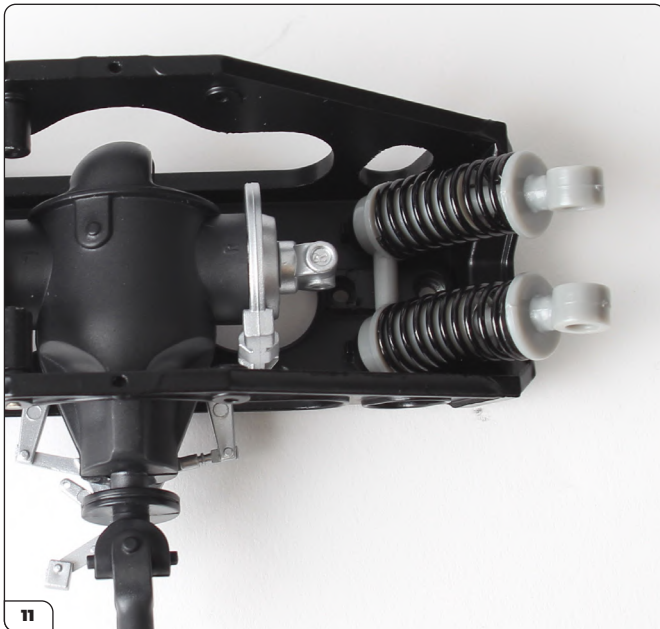
Stage 47: Rear Subframe Right Suspension



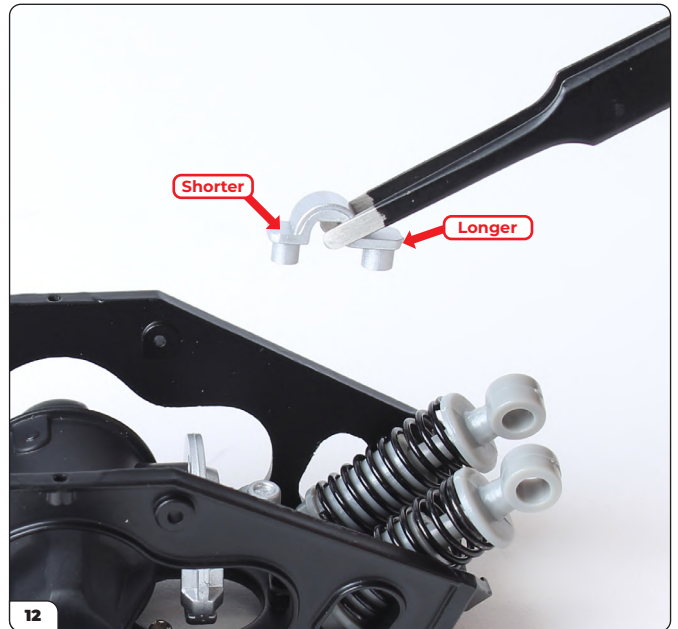
The completed shock absorbers will look like this when assembled.



Take the rear subframe assembly from Stage 46. Rotate the shock absorber pistons so that the eyes are facing each other as shown (arrows).



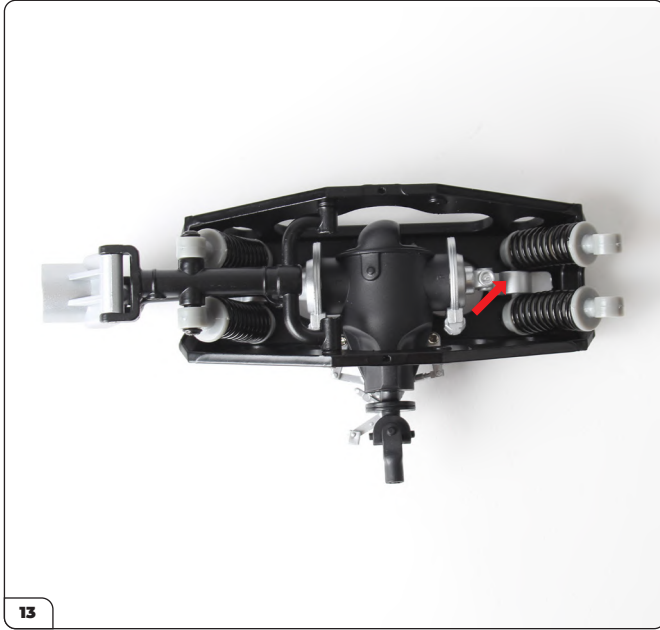
Place the shock absorber into the subframe as shown, so that the bar on the shock absorber is between the two holes on the base of the subframe.



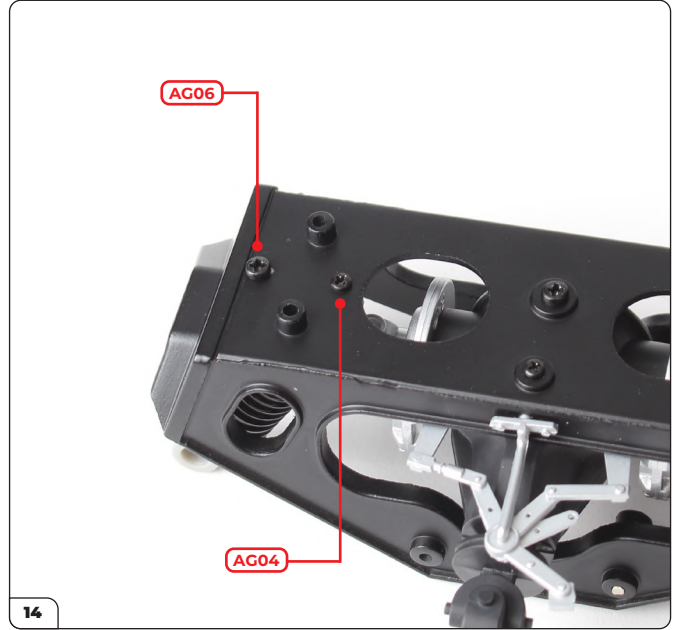
Take the mounting plate and align it so that the shorter end is pointing inwards towards the drive unit.

Tip: You may find it easier to put the mounting plate over the shock absorber assembly and put them into the subframe together.

Stage 47: Rear Subframe Right Suspension



13
Position the mounting plate into the holes on the base of the subframe so that the curved section covers the bar on the shock absorber (arrow).

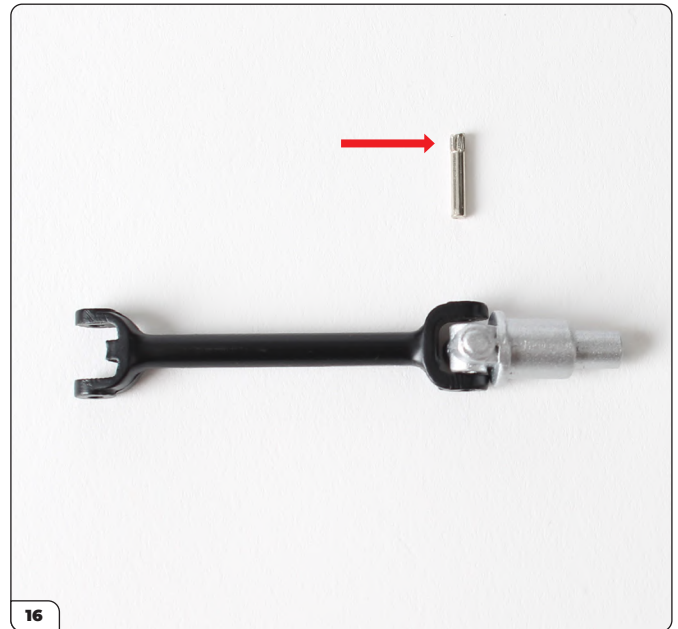


14
Holding the mounting plate in place, turn the subframe over and secure it in place from the reverse side with a type AG06 screw on the outer side and a type AG04 screw on the inner side.

Note: be aware two different screws are used. Make sure to screw the correct type in place to avoid damaging the threads.

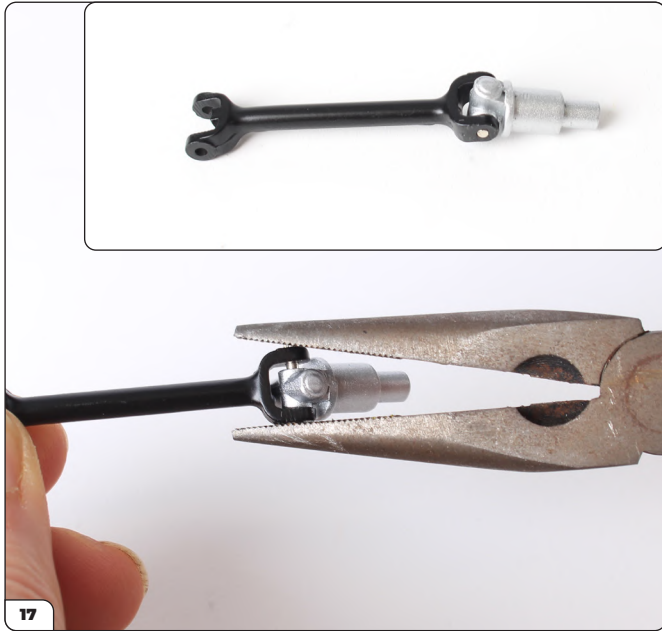


15
Take the left-hand halfshaft and the universal joint. Fit the joint into the end of the halfshaft that does not have a lug (circled) in the centre. Ensure that the holes in the universal joint align with the holes on the end of the halfshaft.

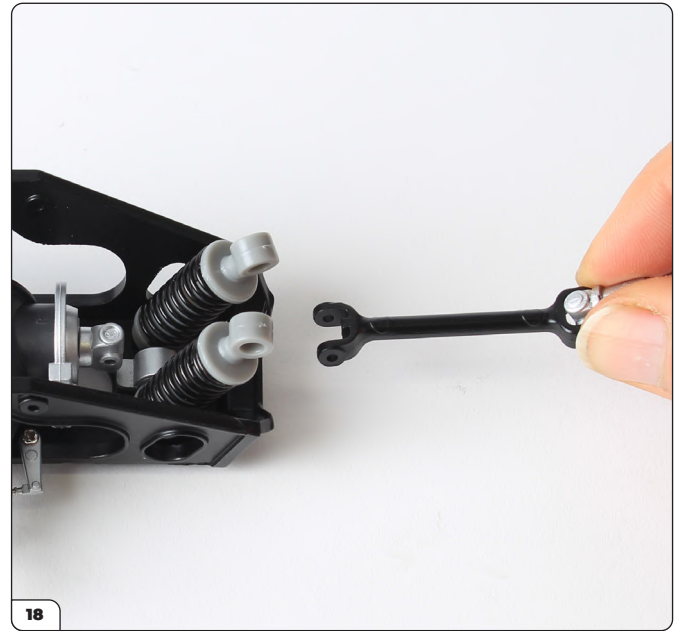


16
Take one of the short spindles. Note that the spindles have a smooth end and a ribbed end (arrow).

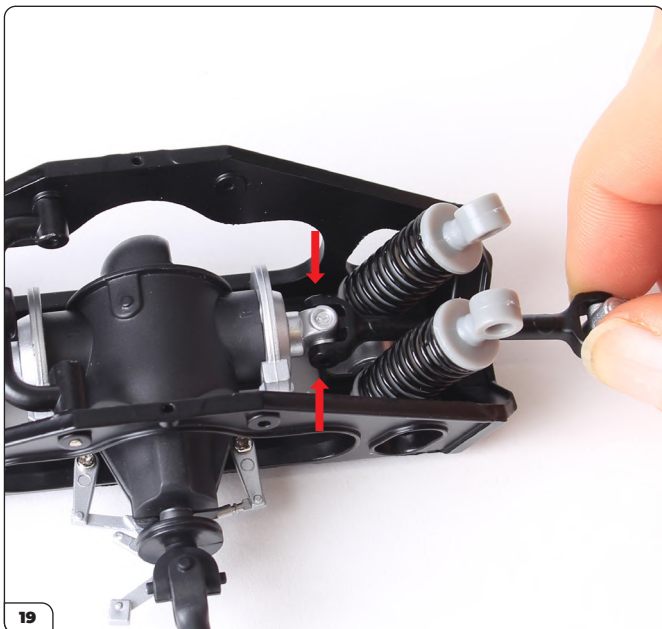
Stage 47: Rear Subframe Right Suspension



Insert the smooth end of the spindle through the halfshaft and into the universal joint. Using pliers, press the spindle into place until the ends are flush on both sides (inset).



Align the free end of the halfshaft with the subframe.



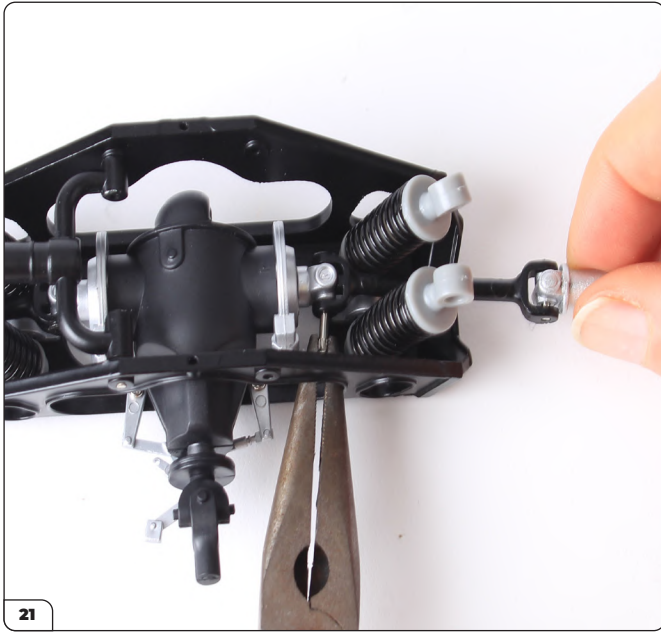
Fit the halfshaft so that the holes align with the holes of the universal joint of the final drive unit (arrows).

Note that the drive shaft should be angled up, away from the subframe.

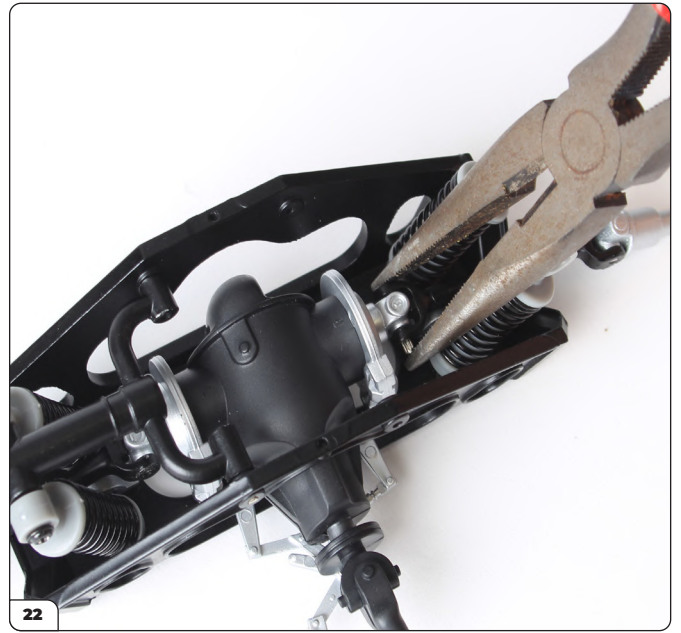


Take a short spindle, gripping the ribbed end with pliers or tweezers as shown. Hold the halfshaft in place.

Stage 47: Rear Subframe Right Suspension



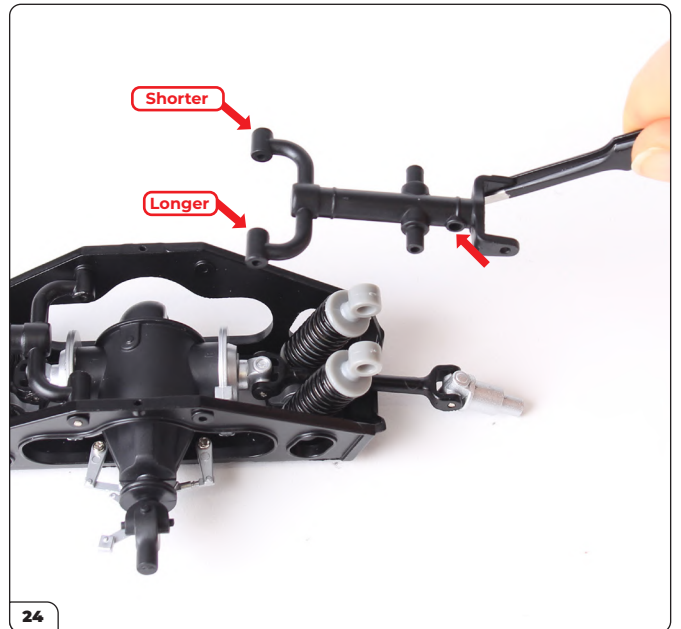
Using the opening on the side of the subframe, fit the smooth end of the short spindle into the halfshaft and universal joint.



Squeeze the ends of the spindle into place until it sits flush.

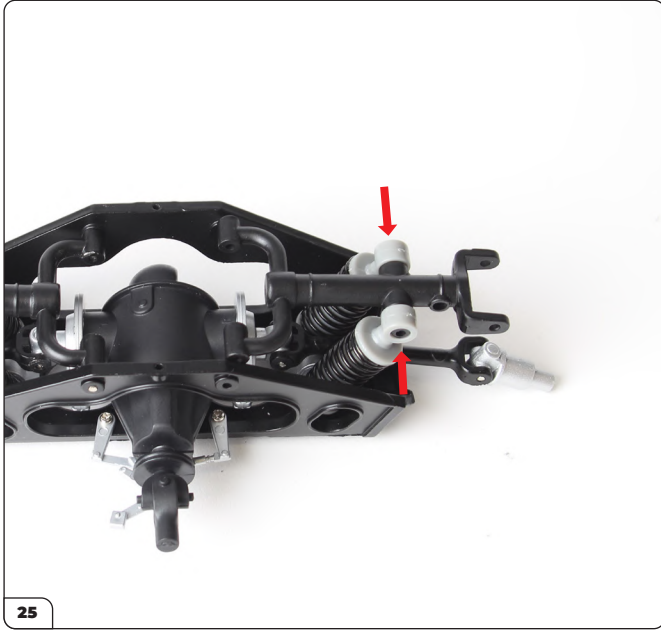


The halfshaft should look like this once in place.

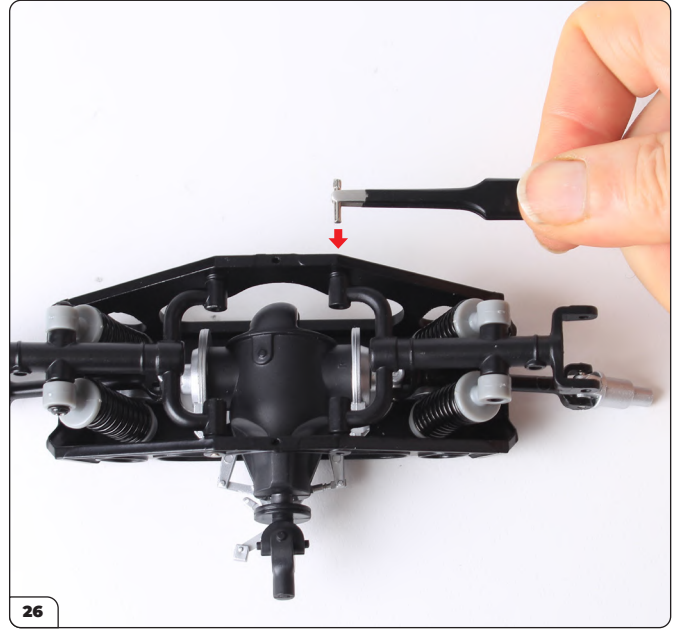


Take the wishbone and align it with the assembly as shown. Note one of the pivots is slightly longer than the other, and there is a lug on one side of the shaft (arrows).

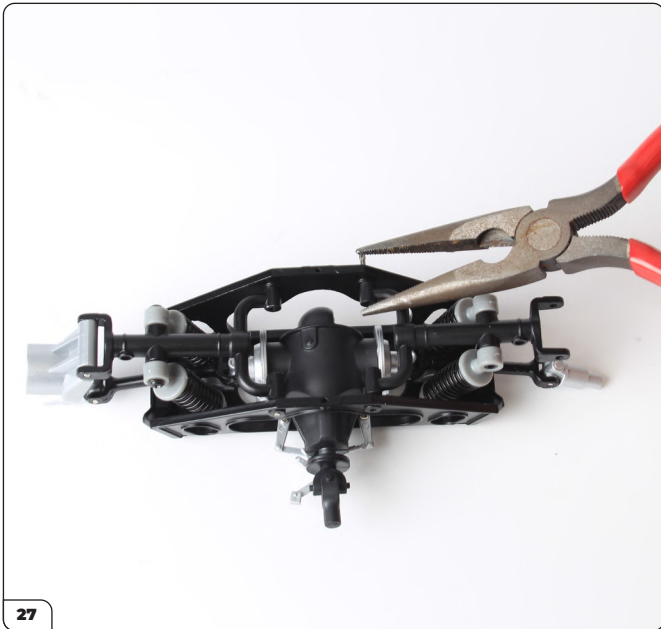
Stage 47: Rear Subframe Right Suspension



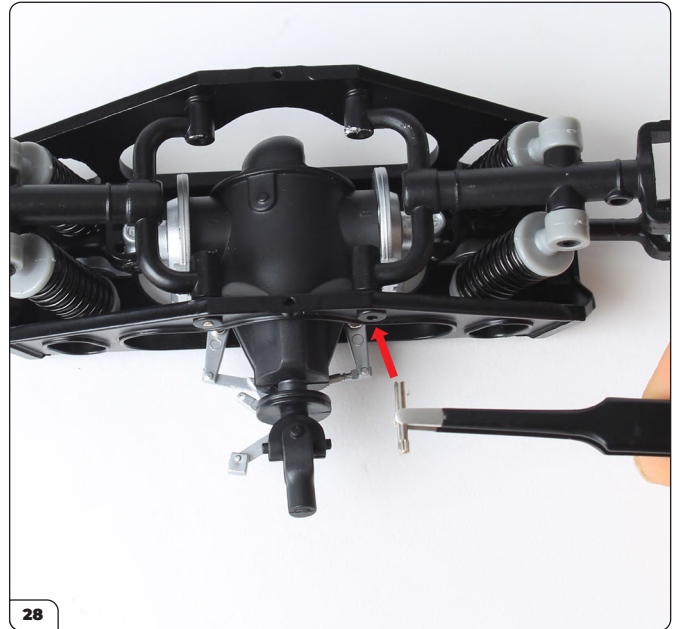
Ease the wishbone into the two eyes of the shock absorber pistons (arrows).



Take the remaining short spindle and align it so the ribbed end is facing outward. Push the smooth end into the subframe and through the wishbone pivot.

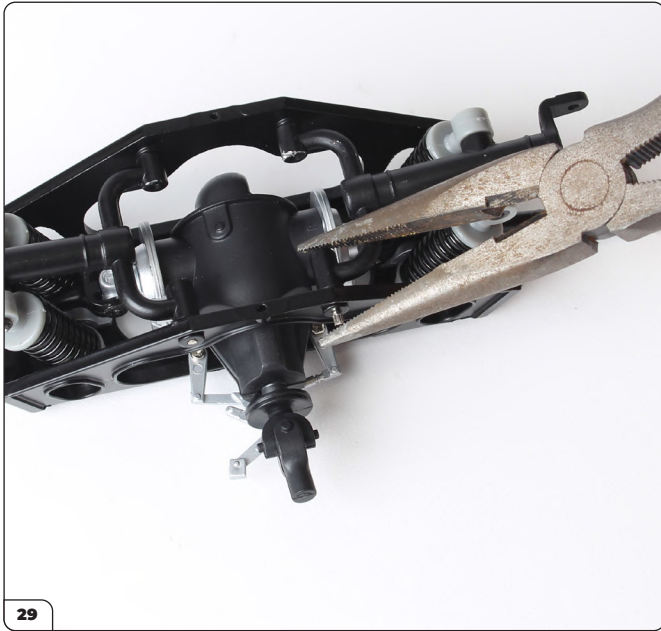


Squeeze the spindle into place.

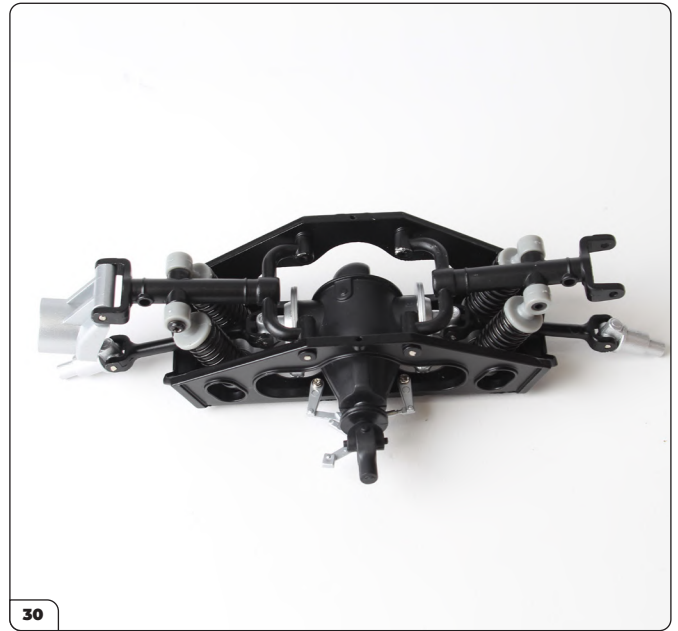


Take the medium spindle and push the smooth end into the subframe and wishbone pivot.

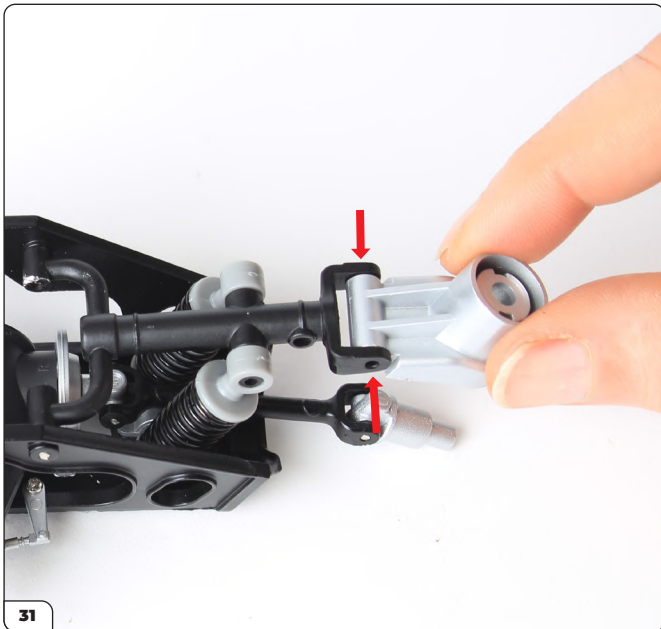
Stage 47: Rear Subframe Right Suspension



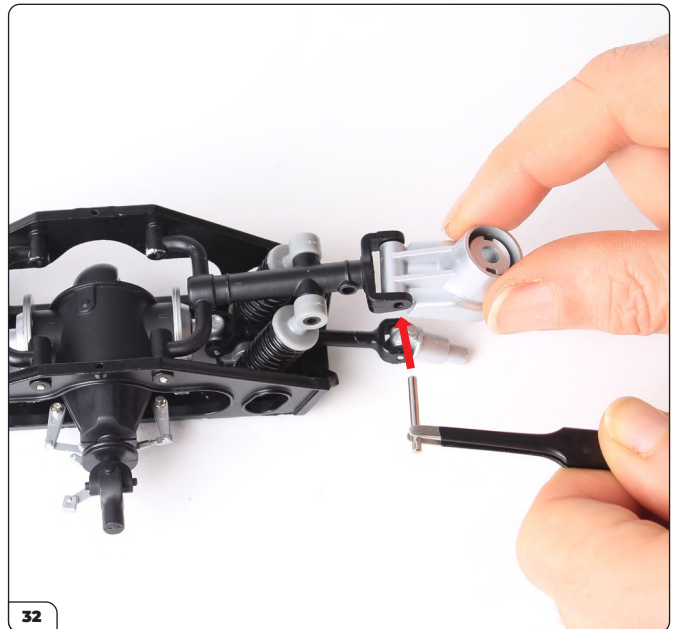
Squeeze the spindle into place.



The second wishbone has now been fitted.

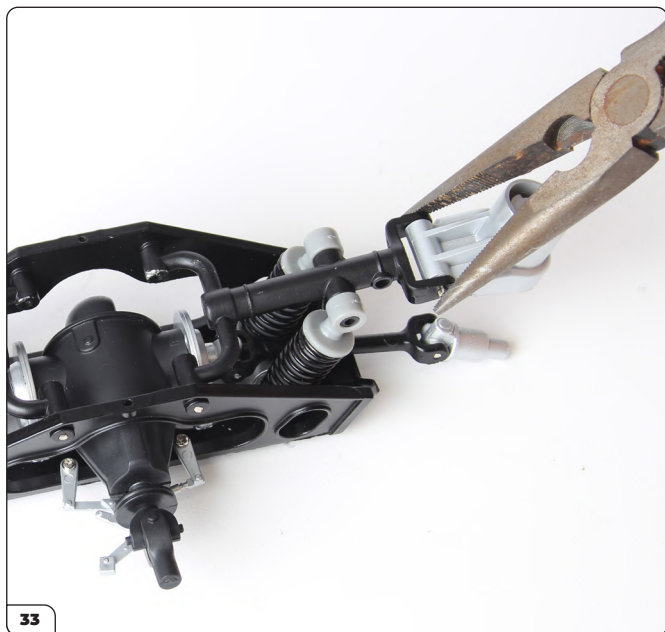


Position the hub carrier in the wishbone ensuring that the small holes are aligned.

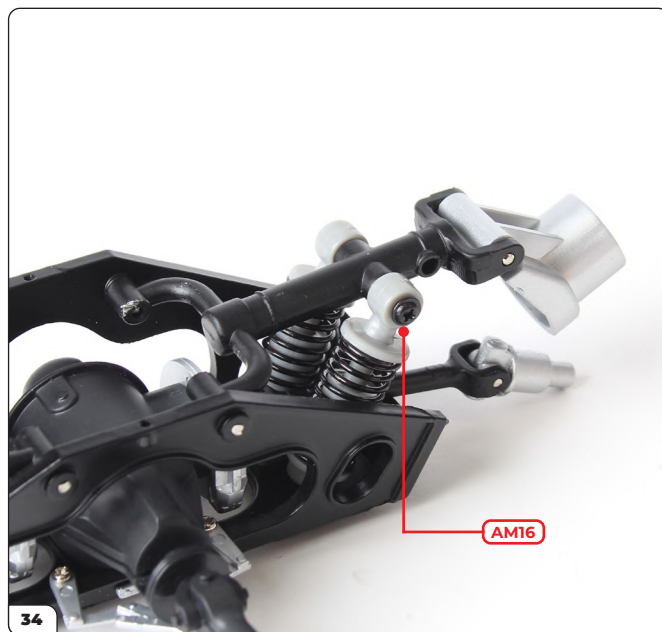


Holding the hub carrier in place, push the smooth end of the long spindle through the wishbone and hub carrier joint.

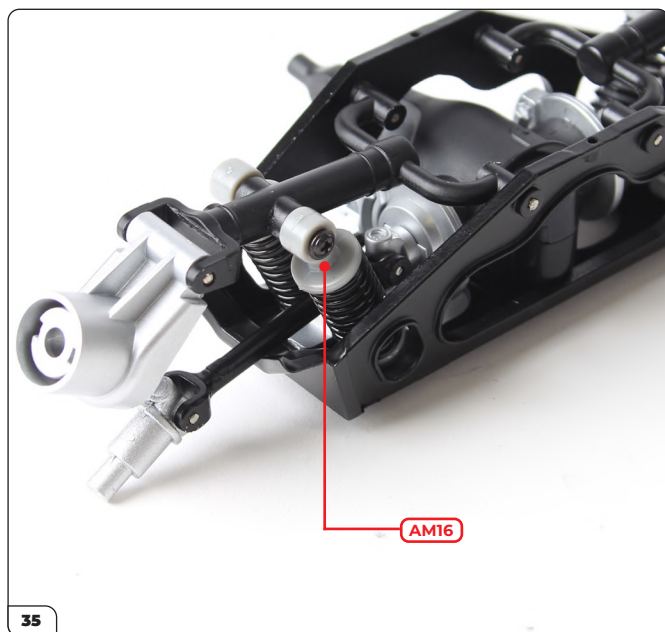
Stage 47: Rear Subframe Right Suspension



Squeeze the spindle into place until it sits flush.



Insert a type AM16 screw into the eye of the shock absorber piston.



Repeat on the opposite side to secure the other piston with another type AM16 screw.

Stage 47: Rear Subframe Right Suspension



Stage 48: Installing the Rear Subframe

In this final stage of Pack 6, you will fit the radius arms and anti-roll bar to the underside of the floor, then install the rear subframe.



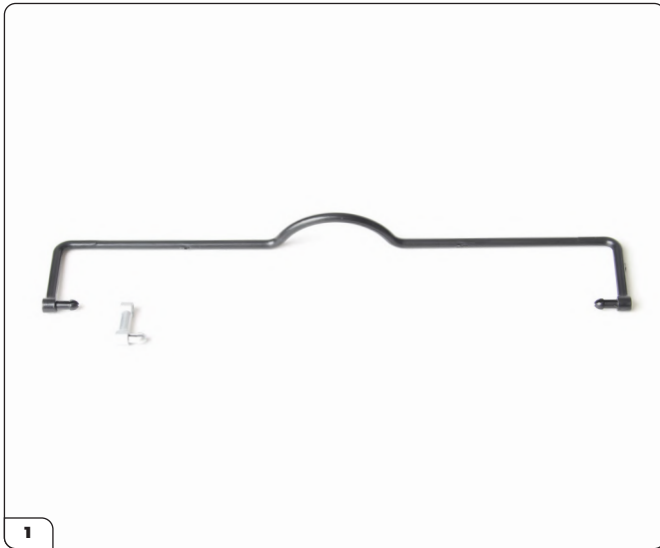
STAGE 48 PARTS LIST

Name
Bracing plate
Radius arms (left and right)
Safety straps x2
Rear anti-roll bar
Mounting brackets x2
Links x2
Screws type AM01 x5
Screws type AG06 x9
Screws type AM17 x3



Stage 48: Installing the Rear Subframe

STEP 1



Take the rear anti-roll bar and one of the links.



Push the link into one of the lugs of the anti-roll bar, ensuring that the lug on the link is facing inwards (arrow).



Take the other link and repeat for the other side. The bar should look like this, with both lugs facing inwards.



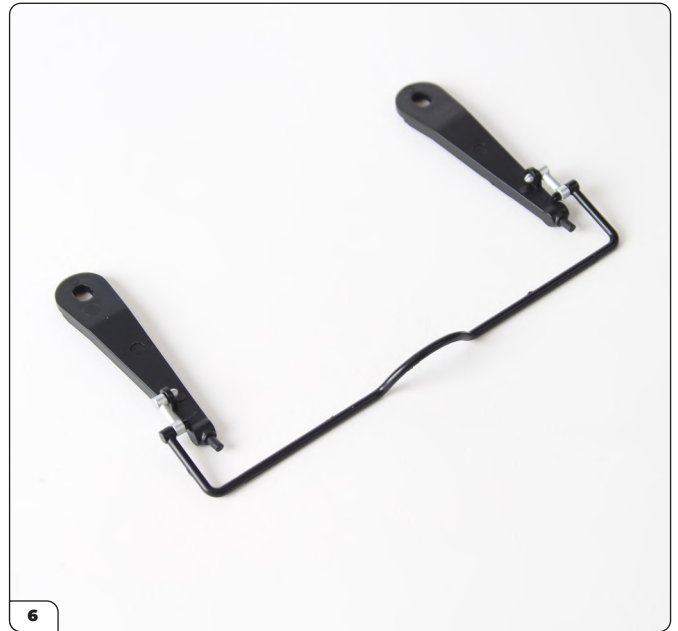
Take the radius arms and identify the left arm from the right arm using the 'L' and 'R' on the parts (circled).

Stage 48: Installing the Rear Subframe

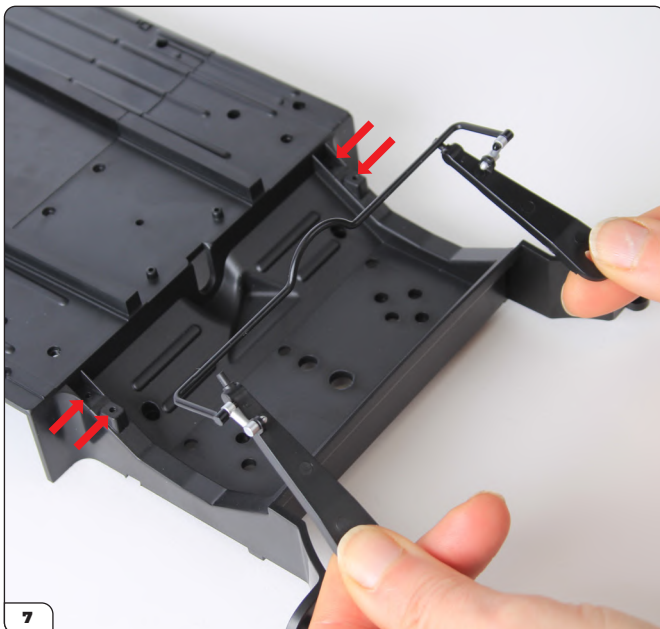


Place the arms on the left and right of the anti-roll bar as shown, with the brackets of the arms facing the lugs of the links.

Note: the arch of the anti-roll bar should be pointing upwards.



Plug the brackets of the arms into the links.



Take the floor panel assembly from Stage 43. Align the anti-roll bar and arms as shown, so the arch of the bar is pointing upwards. Rest the bar on the underside of the floor, between the pairs of mounting holes (arrows).



Take one of the mounting brackets and fit it over the anti-roll bar, aligning it with the mounting holes.

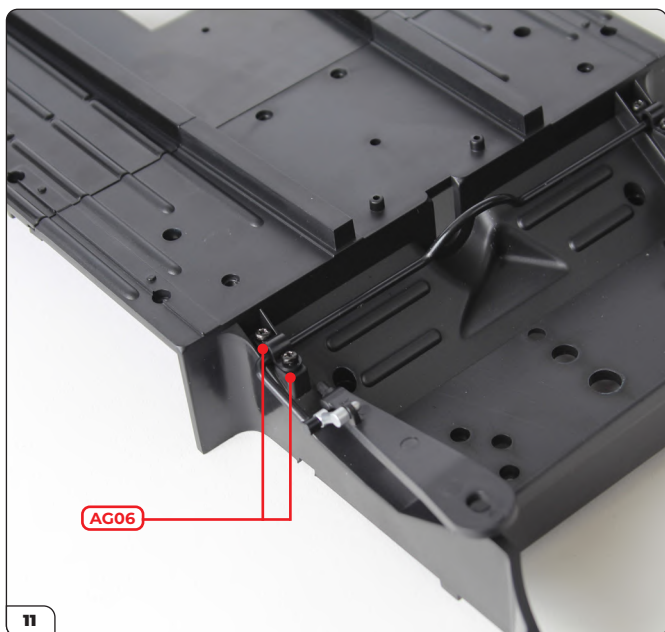
Stage 48: Installing the Rear Subframe



The mounting bracket should look like this when in place.



Secure the bracket with 2 x type AG06 screws.

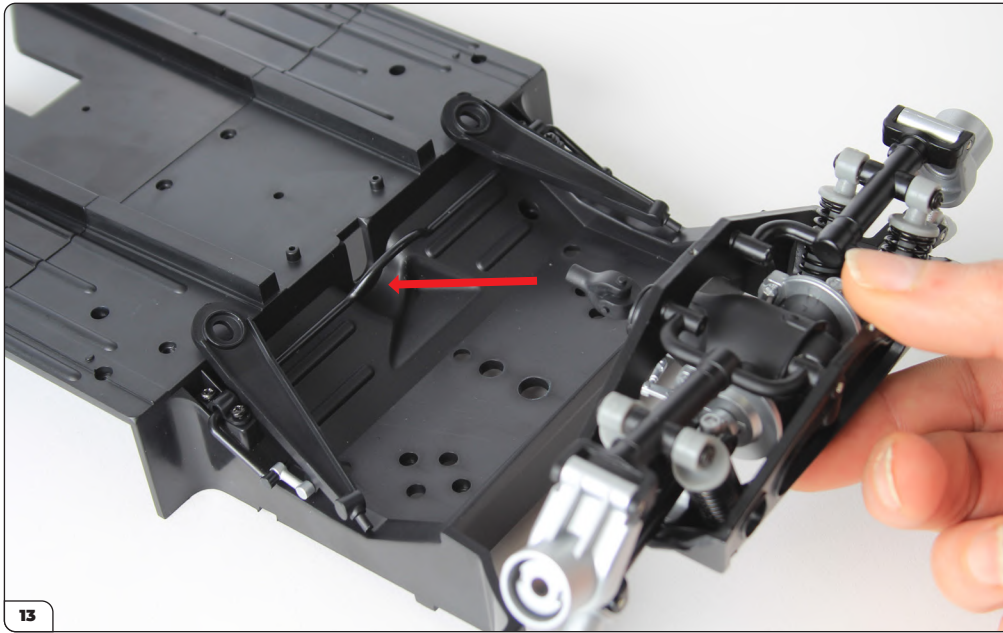


Repeat to secure the bracket on the other side using another 2 x AG06 screws.

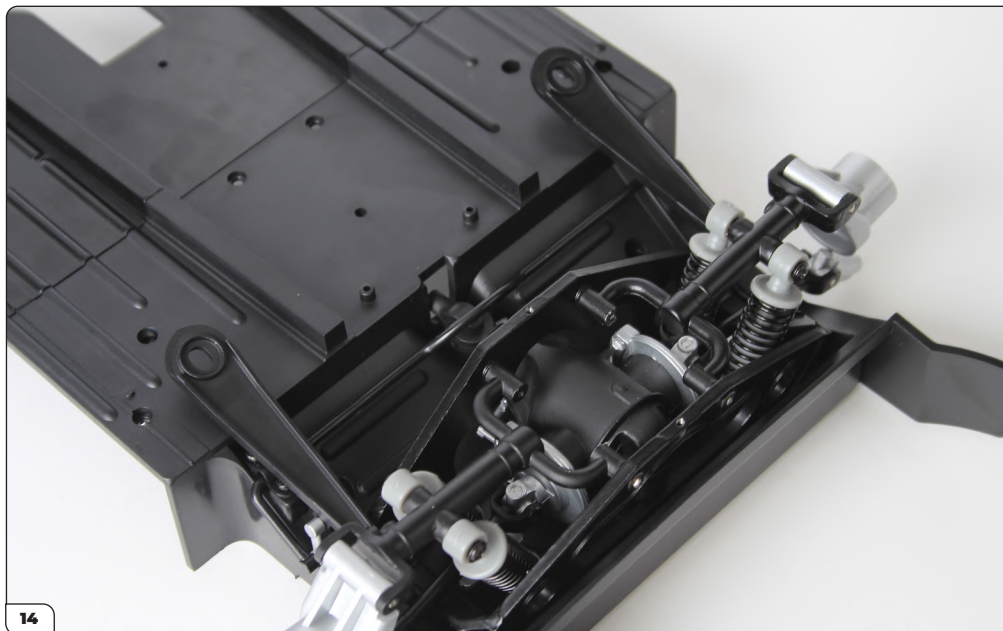


Flip the arms so that they rest on the underside of the floor as shown.

Stage 48: Installing the Rear Subframe

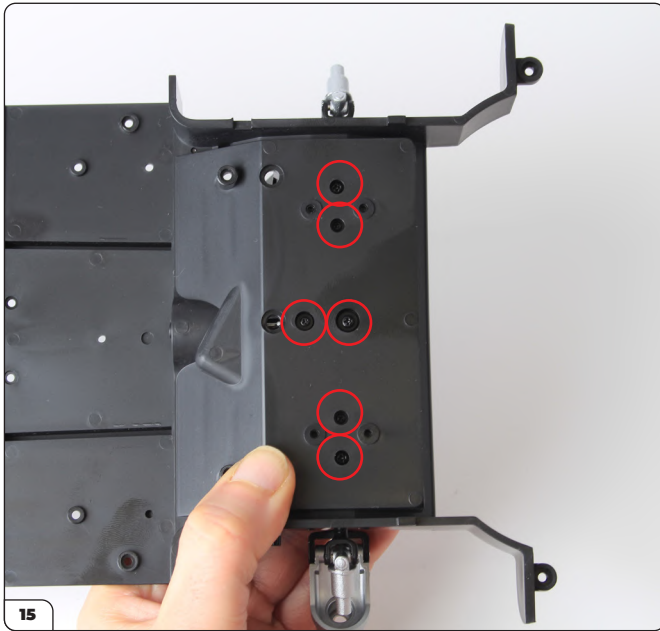


Take the rear subframe from Stage 47 and align it with the floor assembly as shown. The universal joint will fit under the arched section of the anti-roll bar (arrow).

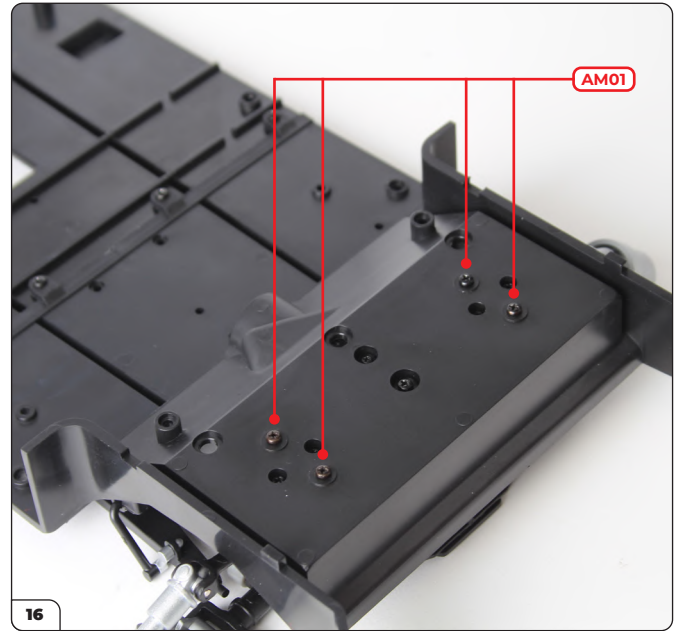


Fit the subframe into the floor assembly so that the flat surface of the subframe sits flush and the screw holes align (see picture 15).

Stage 48: Installing the Rear Subframe



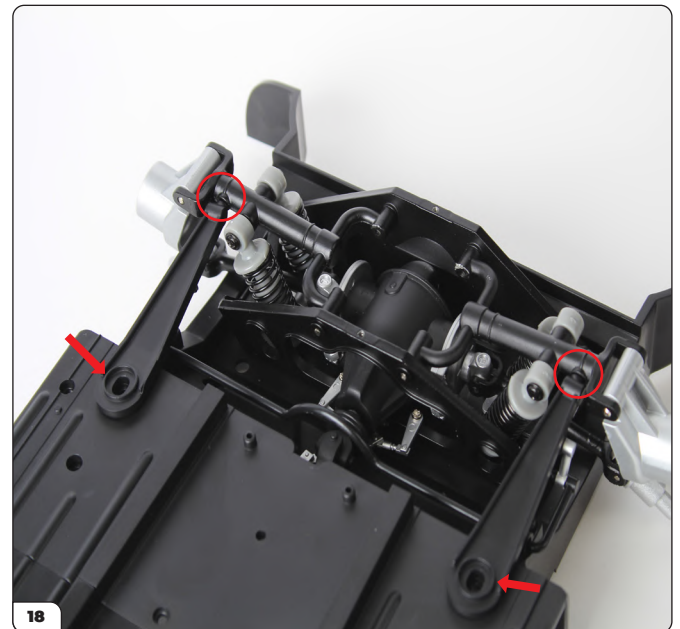
Holding the subframe in place, flip the assembly over. The holes in the underside of the floor should be aligned with the screws already in place in the subframe (circled).



Secure the subframe in place using 4 x type AM01 screws.

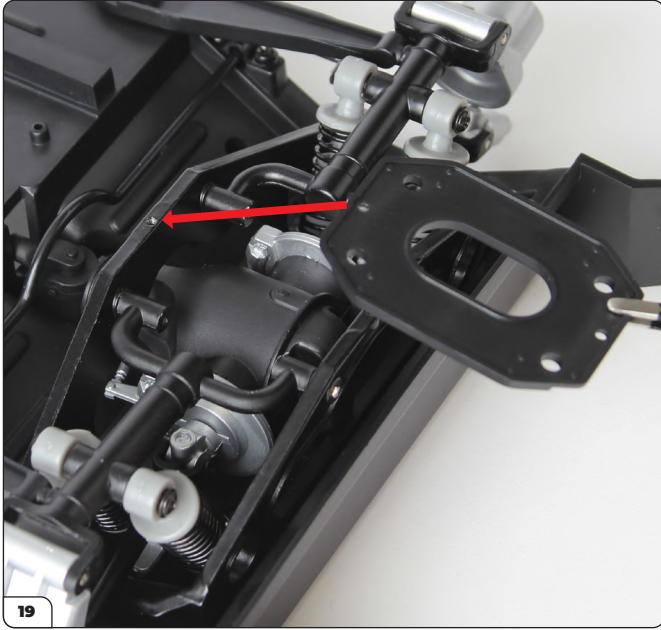


Push the pins on both the radius arms into the holes on both the wishbones (see also circled in picture 18).

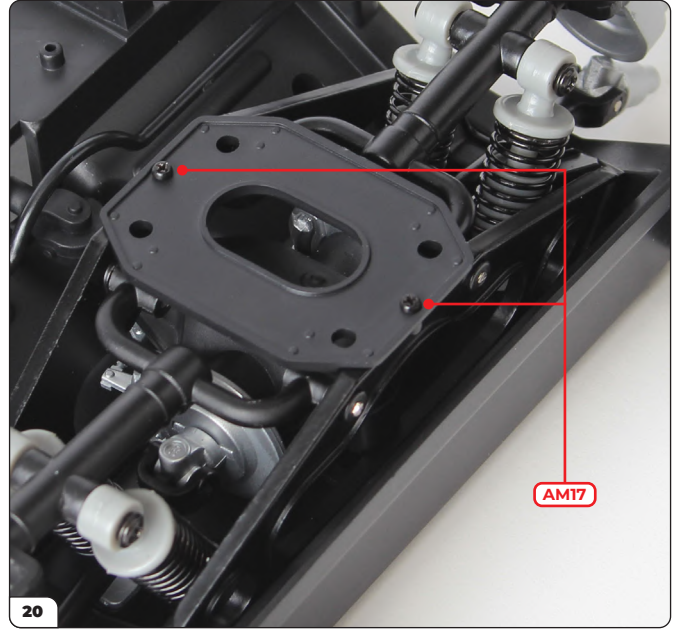


Check that the holes on the opposite ends of the radius arms align with the screw holes in the floor (arrows).

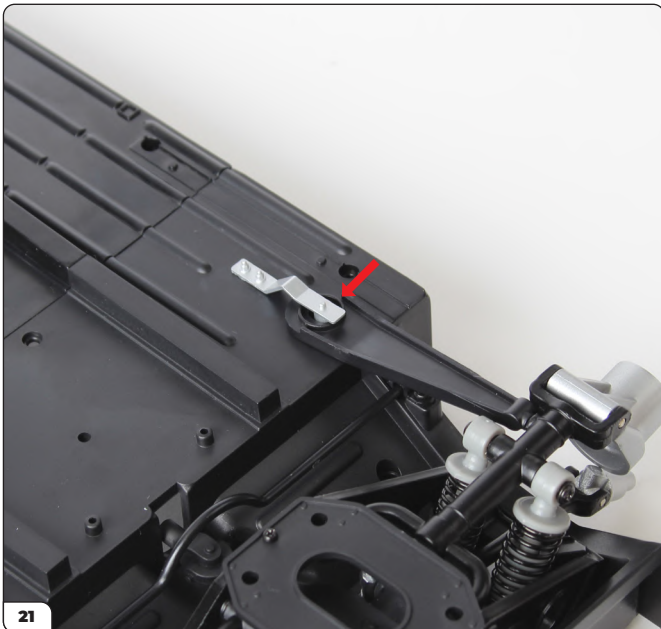
Stage 48: Installing the Rear Subframe



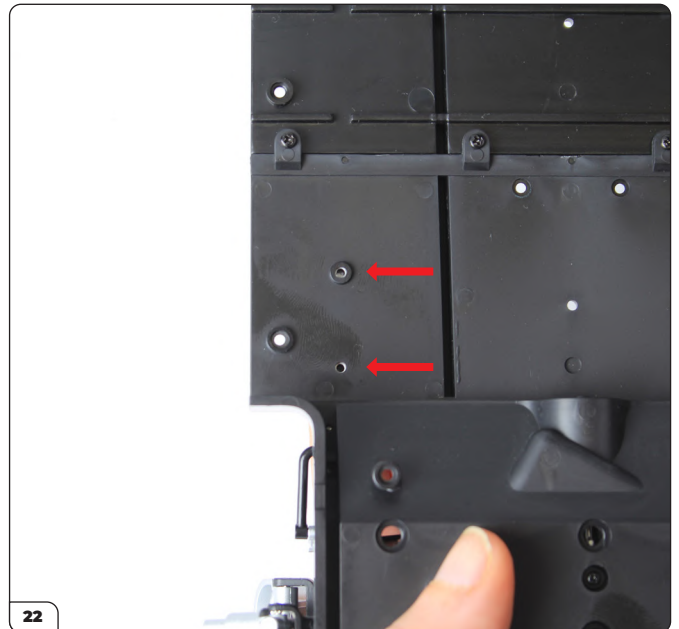
Take the bracing plate and place it onto the subframe, aligning the two screw holes (see picture 20).



Secure the bracing plate in place with 2 x type AM17 screws.

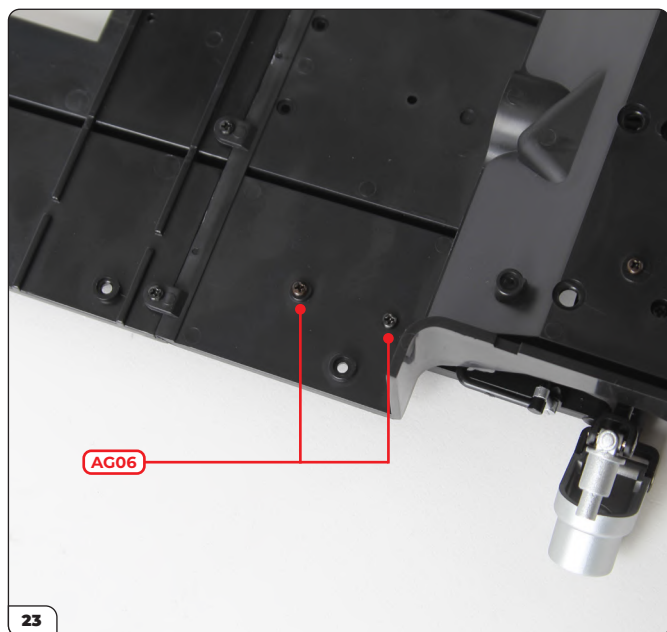


In the orientation shown, fit one end of one of the safety straps through the hole in the radius arm and the other end into the floor panel.

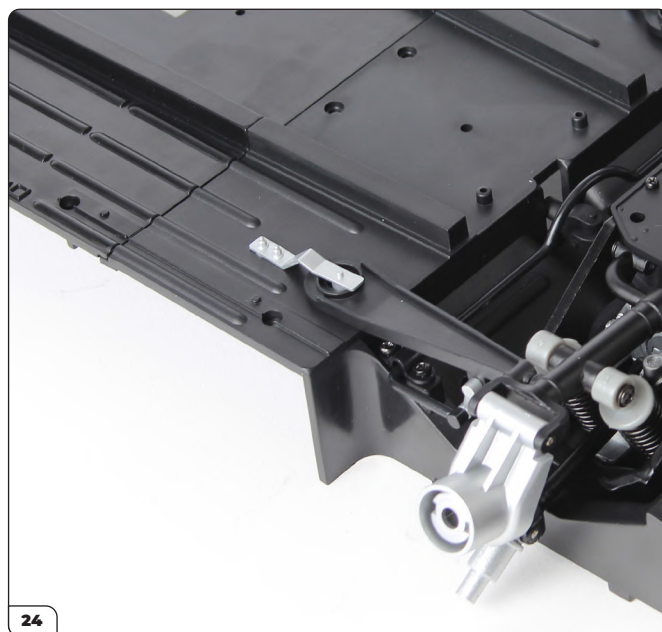


Holding the safety strap in place, flip the assembly over. Locate the two indicated holes on the reverse side (arrows).

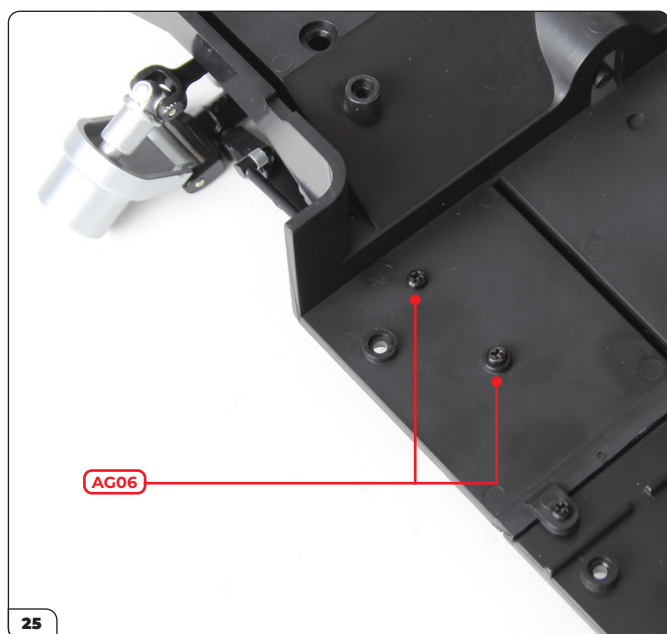
Stage 48: Installing the Rear Subframe



Use 2 x type AG06 screws to secure the safety strap in place.



Turn the assembly over and fit the remaining safety strap to the other radius arm.



Holding the safety strap in place, turn the assembly over once again and secure in place with another 2 x type AG06 screws.

Stage 48: Installing the Rear Subframe

