### STEVE MCQUEEN'S ICONIC PUBSICHE 917/4



### Pack 04

### BUILD INSTRUCTIONS

STAGE 21: ADDING THE EXHAUST OUTLETS AND BRACKETS

STAGE 22: FITTING THE FIRST DISTRIBUTOR AND ATTACHING THE WIRES

STAGE 23: FITTING THE SECOND DISTRIBUTOR AND ATTACHING THE WIRES

STAGE 24: BRAKE FLUID TANKS AND WINDSCREEN WASHER RESERVOIR

STAGE 25: FIXING THE ENGINE MOUNT TO THE CHASSIS

STAGE 26: INSTALLING THE PEDALS AND FOOTREST ON THE CHASSIS

STAGE 27: BUILDING THE DASHBOARD FRAME AND FITTING THE LEFT SUSPENSION

STAGE 28: INSTALLING THE STEERING WHEEL ON THE DASHBOARD FRAME

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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 Porsche 917KH, 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.

21A Upper left exhaust outlet

21B Lower left exhaust outlet

21C Exhaust outlet bracket (x2)

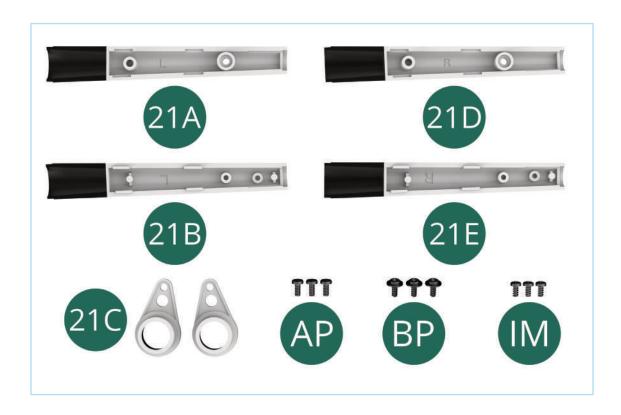
21D Upper right exhaust outlet

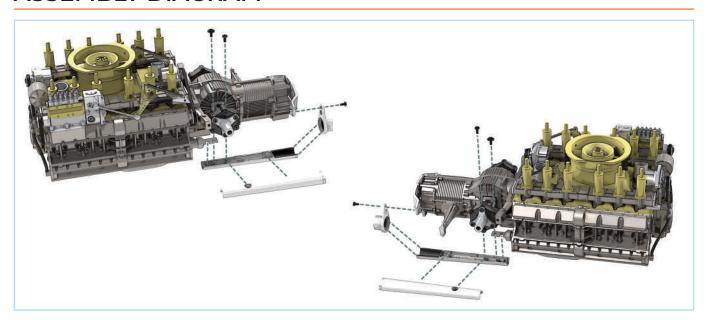
21E Lower right exhaust outlet

**AP** Screw 1.7 x 4 mm (x3)

**BP** Screw 1.7 x 3 x 5 mm (x3)

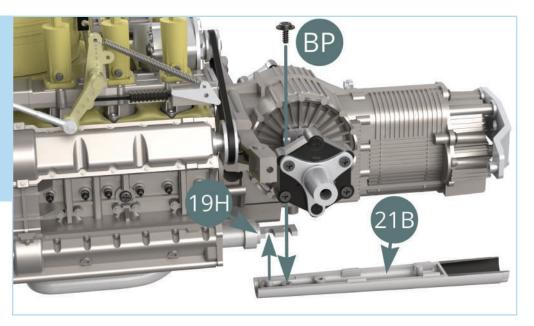
**IM** Screw 1.7 x 5 mm (x3)



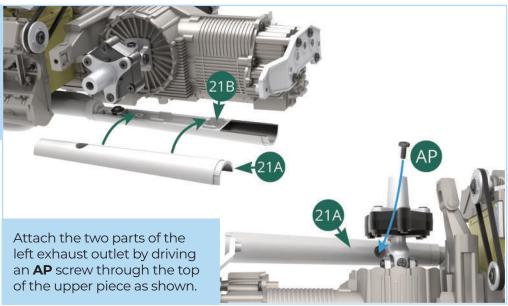


#### STEP 1

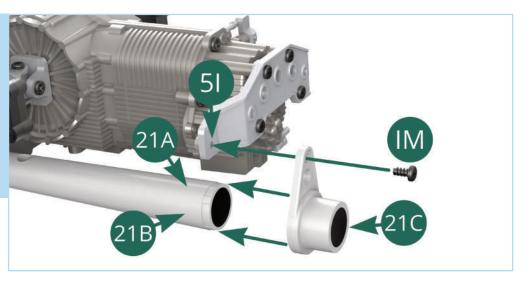
Take the engine assembly. Position the lower left exhaust outlet (21B) on the connection at the end of the exhaust manifold (19H) as shown. Secure the parts together using a BP screw.



Firmly press the upper left exhaust outlet (21A) onto the lower left exhaust outlet (21B). Check the connection is flush along both edges.

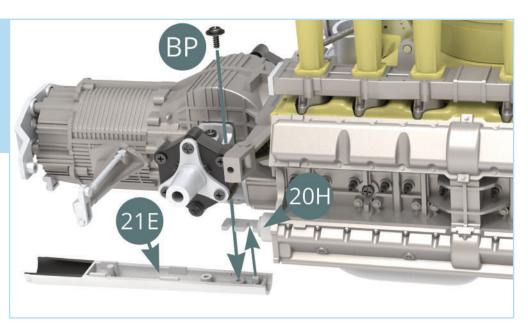


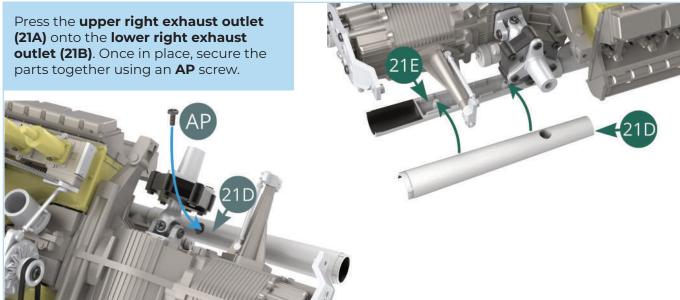
Press one of the exhaust outlet brackets (21C) over the upper and lower left exhaust outlet (21A/21B) and align the screw hole with the exhaust pipe bracket (5I). Secure it in place using an IM screw.



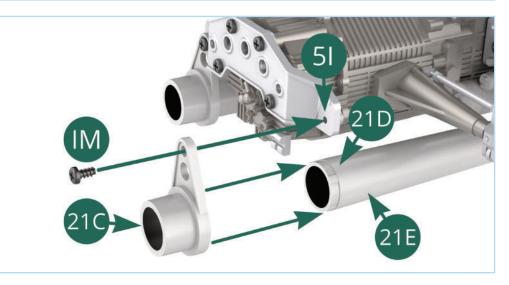
#### STEP 2

In the same manner, place the lower right exhaust outlet (21E) on the connection at the end of the exhaust manifold (20H) and fix using a BP screw.

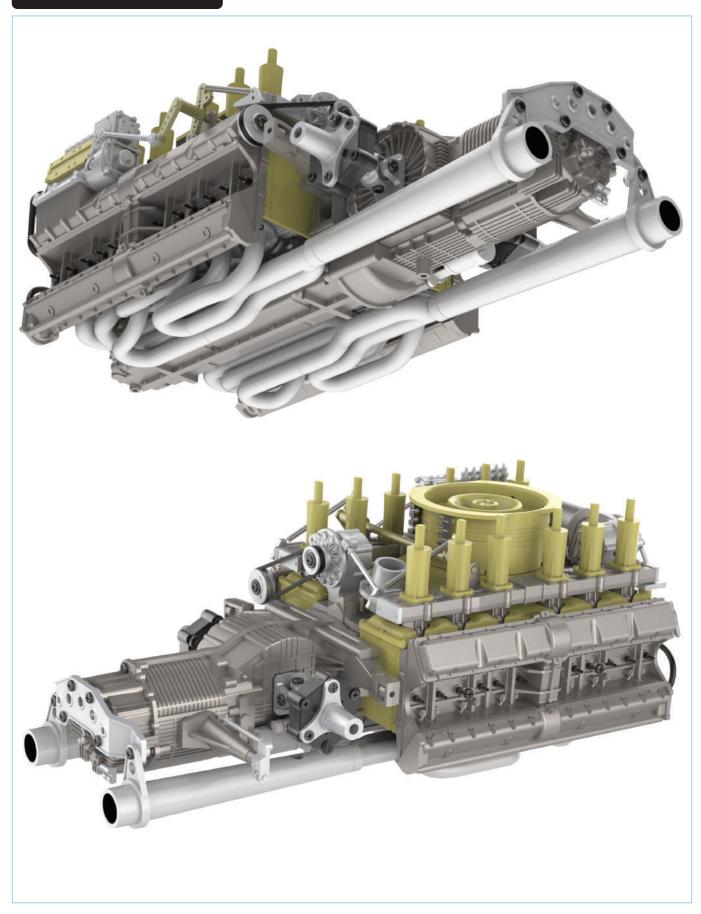




Push the remaining exhaust outlet bracket (21C) in position over the upper and lower right exhaust outlet (21D/21E) and the exhaust pipe bracket (5I). Secure it in place using an IM screw.



### STAGE COMPLETE



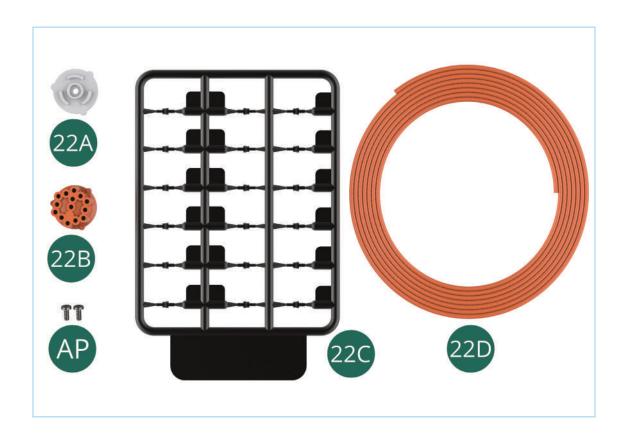
22A Distributor top

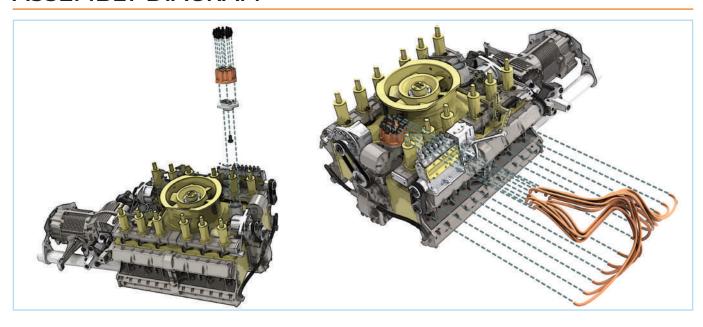
**AP** Screw 1.7 x 4 mm (x2)

22B Distributor cap

22C Plug lead connector (x18)

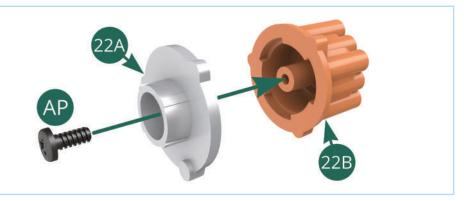
22D Plug lead (x12) – on a roll

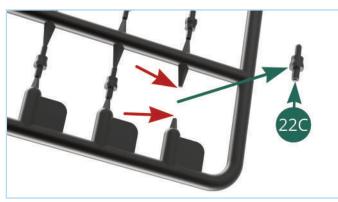




#### STEP 1

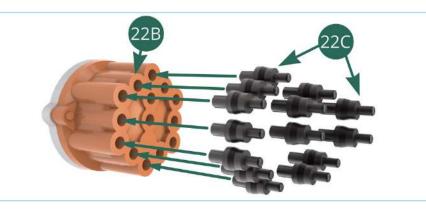
Position the distributor cap (22B) onto the distributor top (22A) and secure using an AP screw.





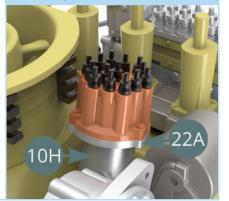
Using sprue cutters, detach 14x **plug lead connectors (22C)** by clipping at the points indicated by the red arrows.

Push the thicker ends of the 14 plug lead connectors (22C) into the holes of the distributor cap (22B).



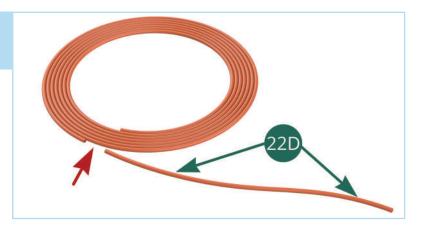


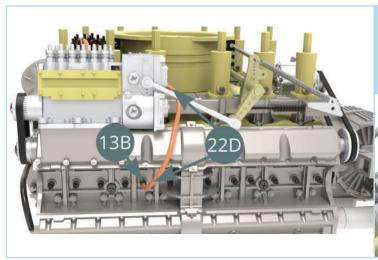
Fit the **distributor top (22A)** onto the **distributor (10H)**. Check its orientation is correct, as shown below.



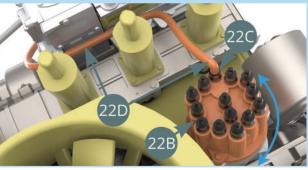
#### STEP 2

Measure and cut 10 cm of plug lead from the **plug lead roll (22D)**.

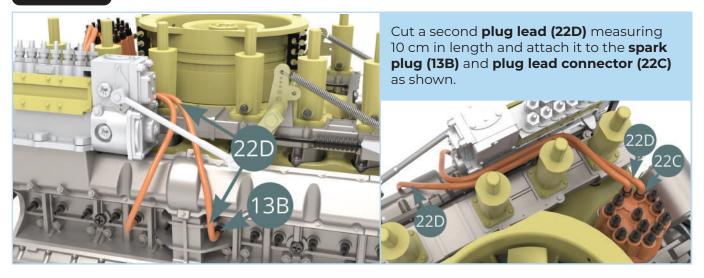




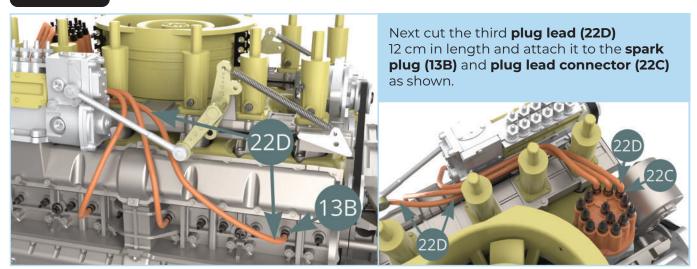
Connect the first 10 cm plug lead (22D) to the spark plug (13B) and plug lead connector (22C) shown below. Turn the distributor into position (blue arrow).



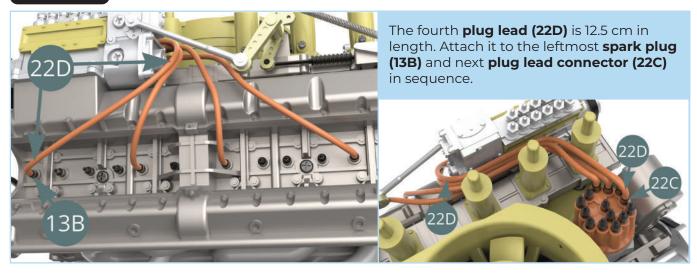
#### STEP 3



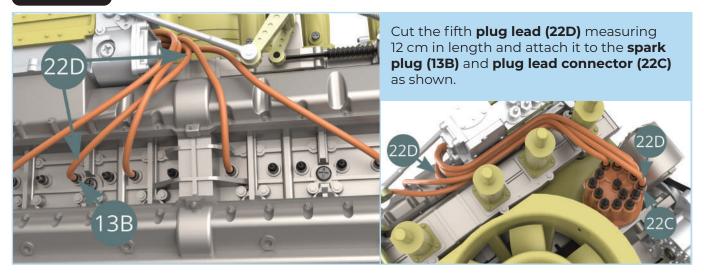
### STEP 4



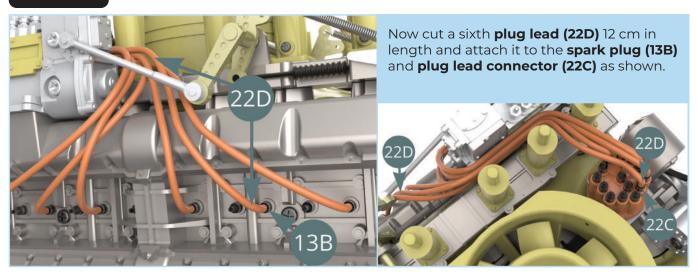
#### STEP 5

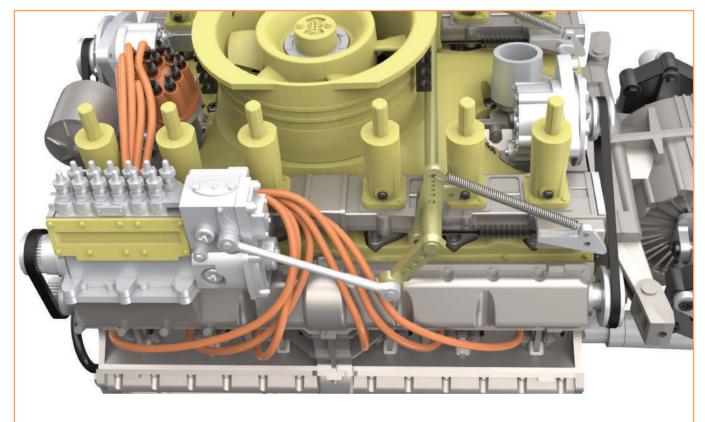


#### STEP 6



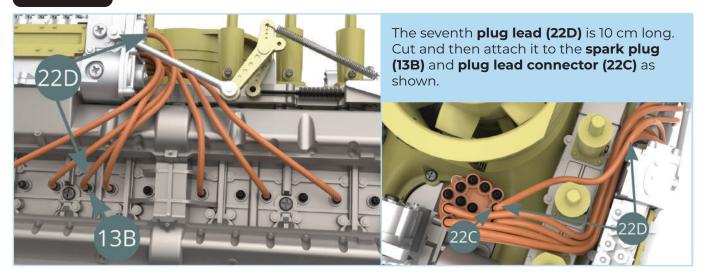
#### STEP 7



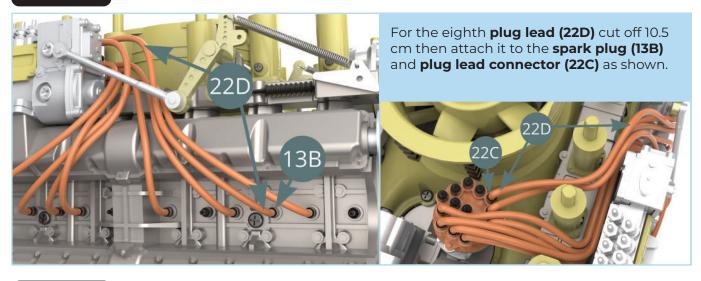


The first six plug leads have been fitted onto the engine. Next you'll attach six more onto the remaining spark plugs and connectors.

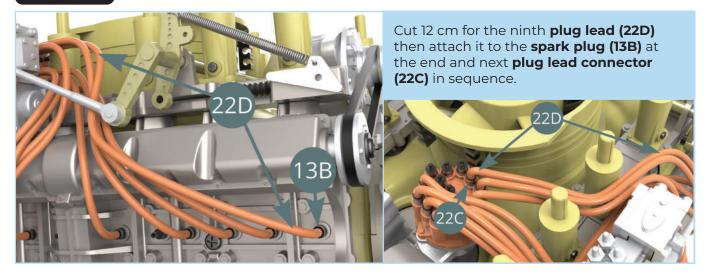
#### STEP 8



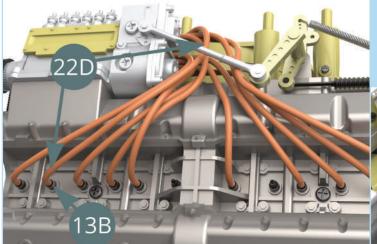
#### STEP 9



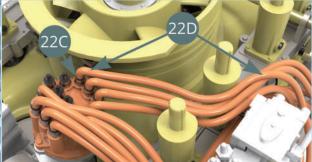
### STEP 10



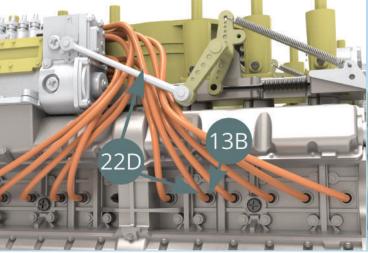
#### STEP 11



The tenth **plug lead (22D)** is 11.5 cm long. Cut and then attach it to the **spark plug (13B)** and **plug lead connector (22C)** as shown.



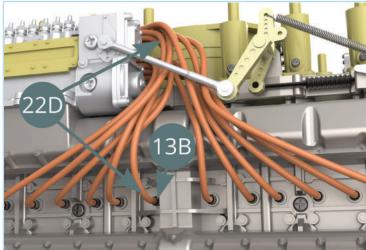
#### **STEP 12**



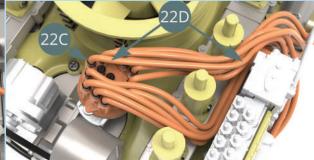
For the eleventh **plug lead (22D)** cut 10.5 cm in length. Attach it to the **spark plug (13B)** and **plug lead connector (22C)** as shown.



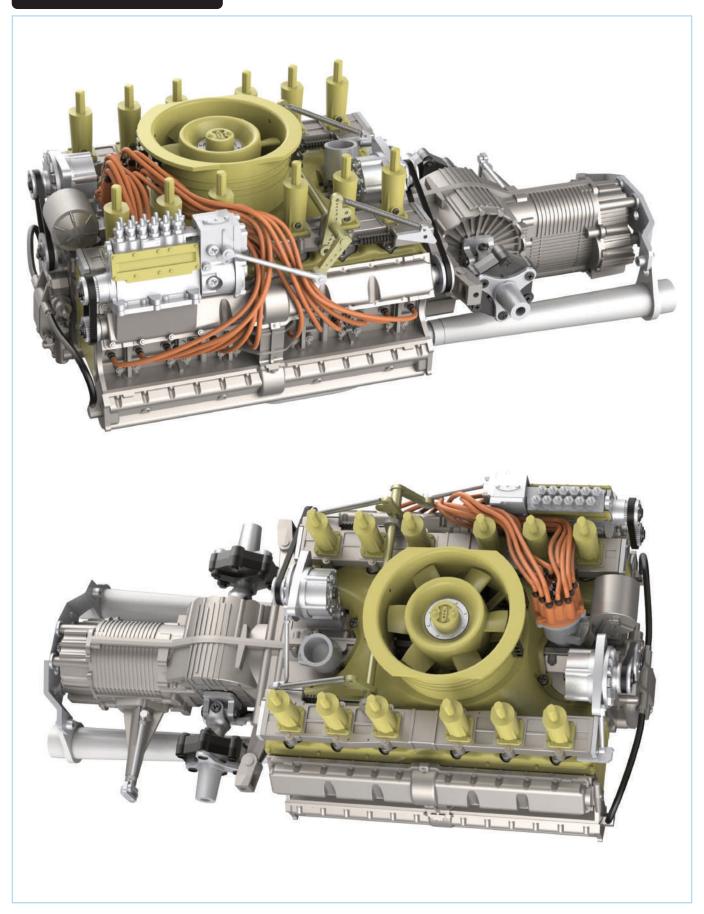
#### **STEP 13**



The twelfth **plug lead (22D)** is 10.5 cm in length. Attach it to the final **spark plug (13B)** and **plug lead connector (22C)**, leaving two connectors in the middle.



### STAGE COMPLETE



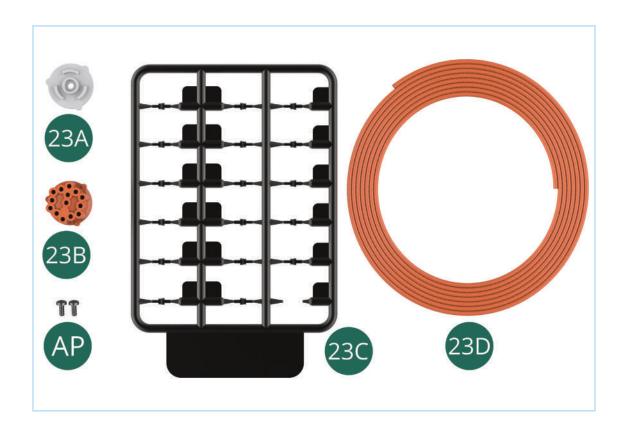
23A Distributor top

**AP** Screw 1.7 x 4 mm (x2)

23B Distributor cap

23C Plug lead connector (x17)

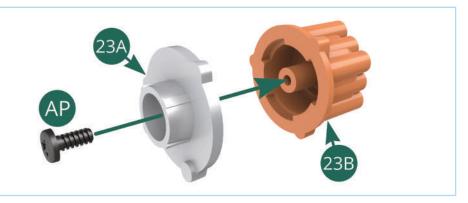
23D Plug lead (x12) – on a roll

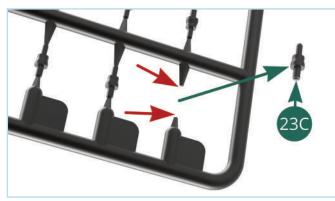




#### STEP 1

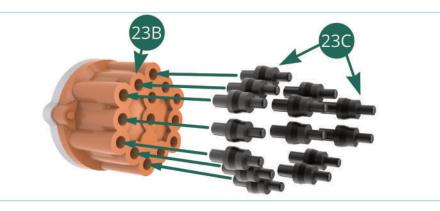
Position the distributor cap (23B) onto the distributor top (23A) and secure using an AP screw.

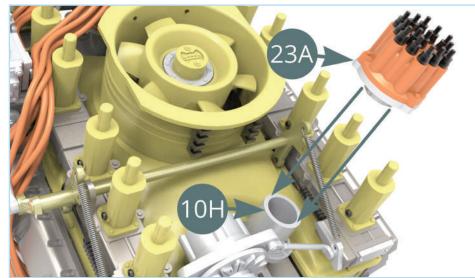




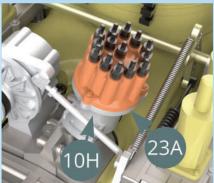
Using sprue cutters, detach 14x **plug lead connectors (23C)** by clipping at the points indicated by the red arrows.

Push the thicker ends of the 14 plug lead connectors (23C) into the holes of the distributor cap (23B).



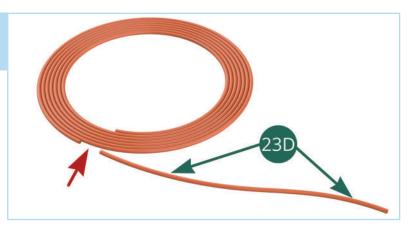


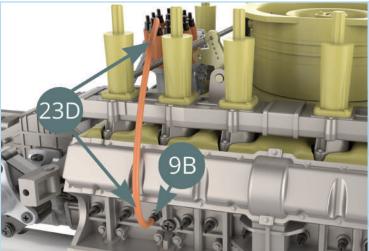
Fit the **distributor top (23A)** onto the **distributor (10H)**. Check its orientation is correct, as shown below.



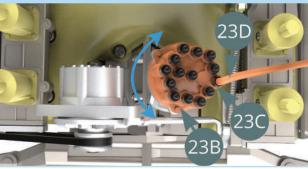
#### STEP 2

Measure and cut 7.5 cm of plug lead from the **plug lead roll (22D)**.

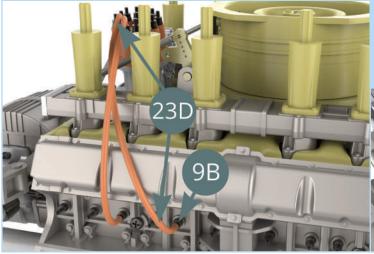




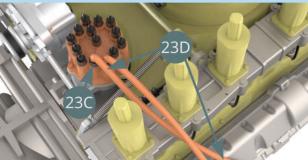
Connect the first 7.5 cm plug lead (23D) to the spark plug (9B) and plug lead connector (23C) as shown. Turn the distributor into position (blue arrow).



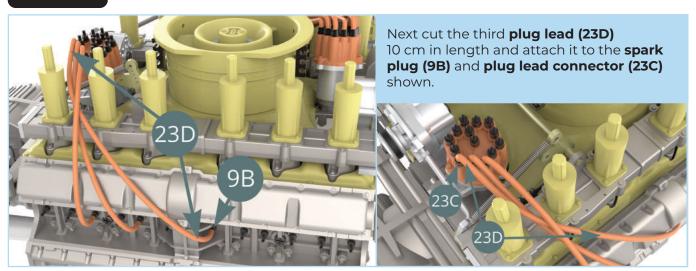
### STEP 3



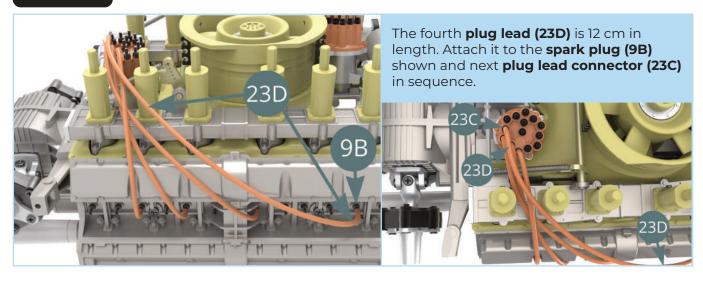
Cut a second **plug lead (23D)** measuring 8.5 cm in length and attach it to the **spark plug (9B)** and **plug lead connector (23C)** as shown.



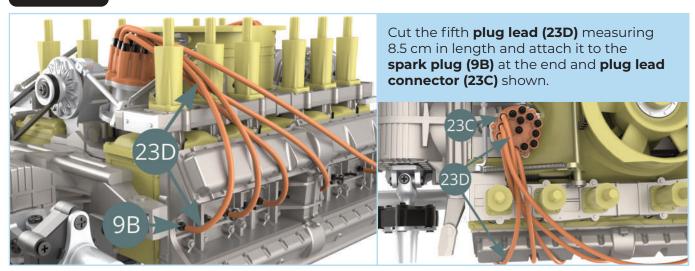
#### STEP 4



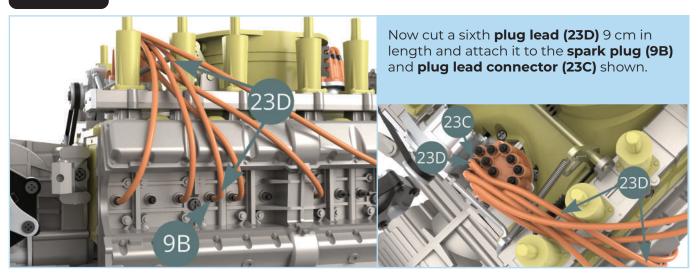
#### STEP 5

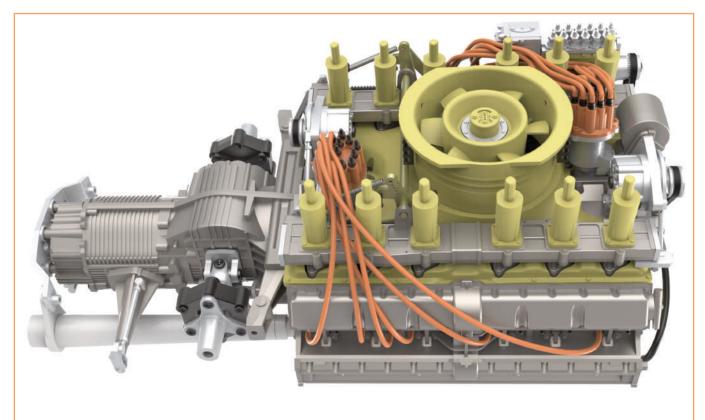


#### STEP 6



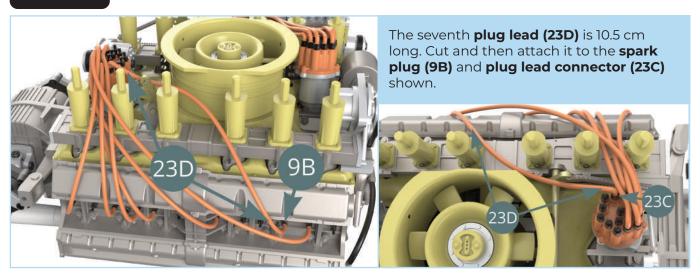
#### STEP 7



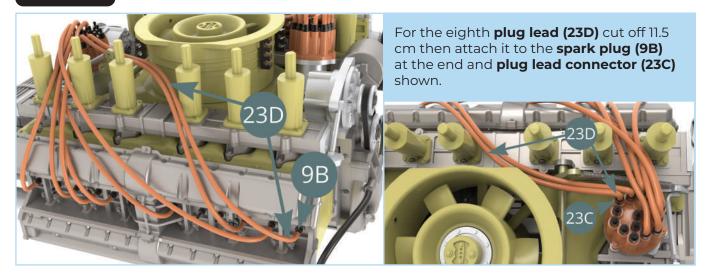


The first six plug leads for the second distributor have been fitted onto the engine. Next you'll attach six more onto the remaining spark plugs and connectors.

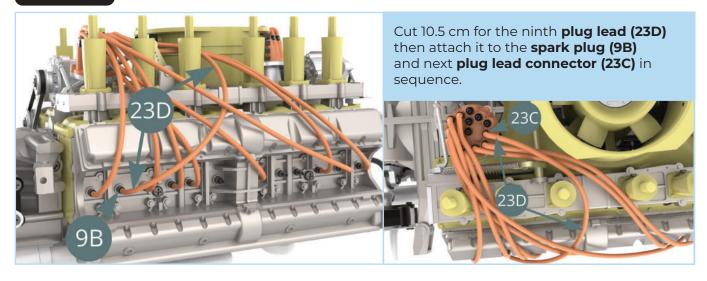
#### STEP 8



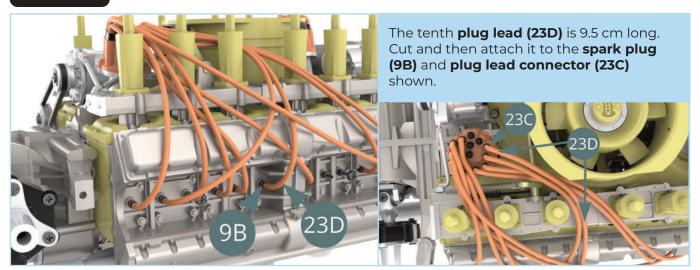
#### STEP 9



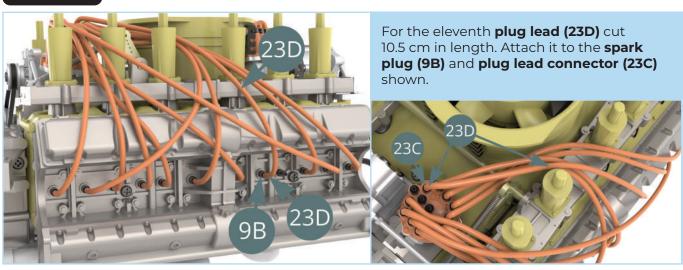
### STEP 10



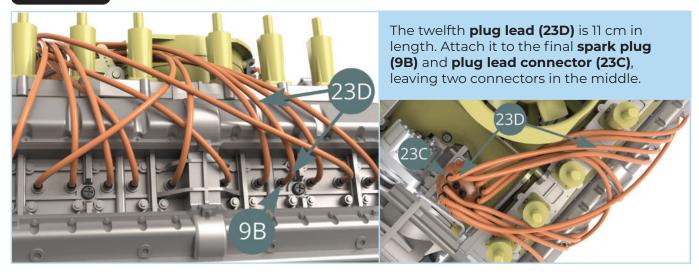
#### STEP 11



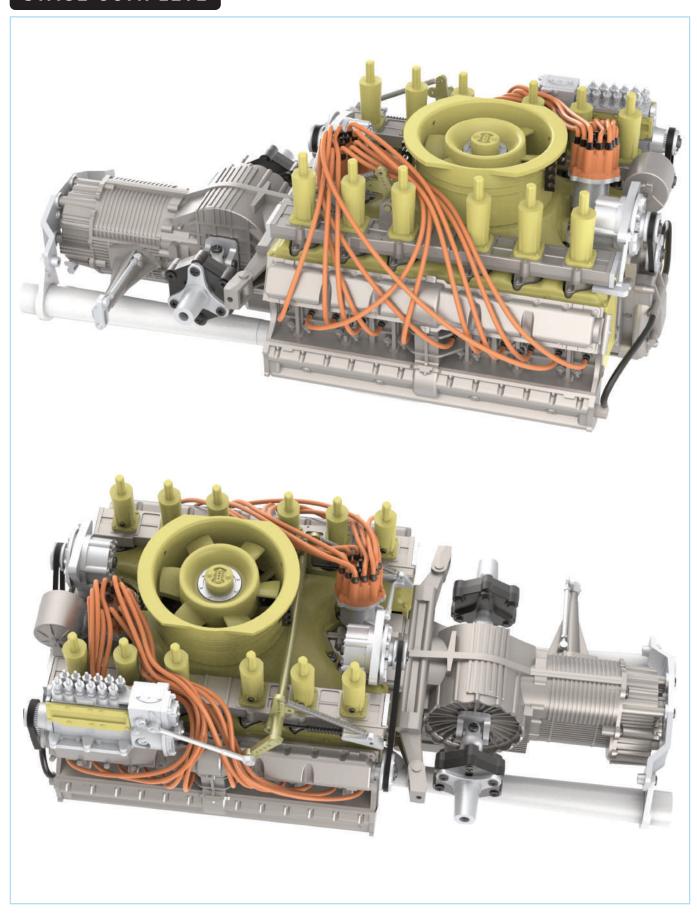
#### STEP 12



### **STEP 13**



### STAGE COMPLETE



24A V-frame

24B Collar link

24C Brake fluid tank

**24D** Brake fluid tank

**24E** Cap (x2)

**24F** Support

**24G** Brake fluid hose (x2)

24H Windshield washer reservoir

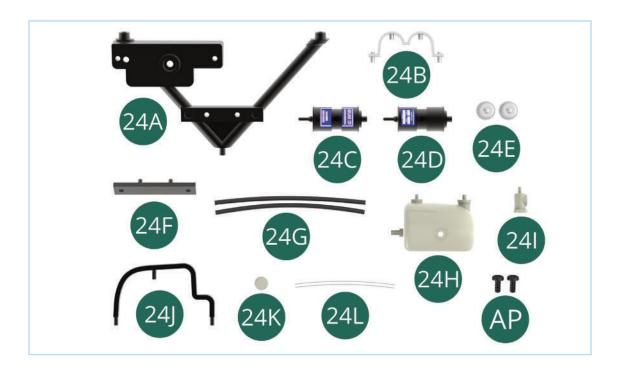
24I Windshield washer pump

24J Clip

24K Reservoir cap

24L Windshield washer fluid hose

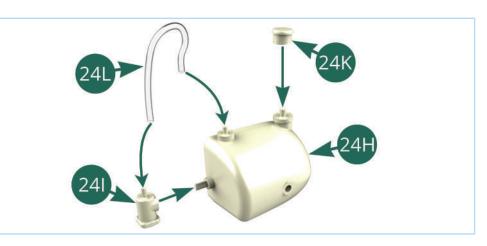
**AP** Screw 1.7 x 4 mm (x2)

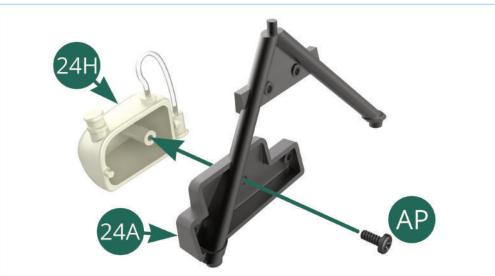




#### STEP 1

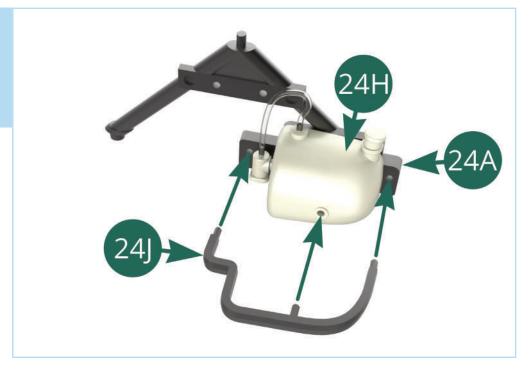
Fit the reservoir cap (24K) onto the windshield washer reservoir (24H). Fit the windshield washer pump (24I) on the side of the reservoir, then connect the washer fluid hose (24L) onto the pins of the pump and reservoir.





With the windshield washer reservoir assembled, fit it on the **V-frame (24A)** and secure in place using an **AP** screw.

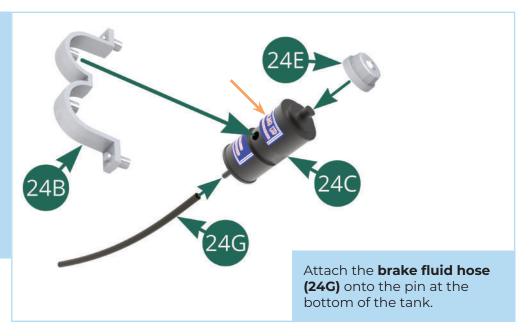
Push the central pin of the clip (24J) into the hole in the reservoir and the outer pins into the corresponding holes in the V-frame.



#### STEP 2

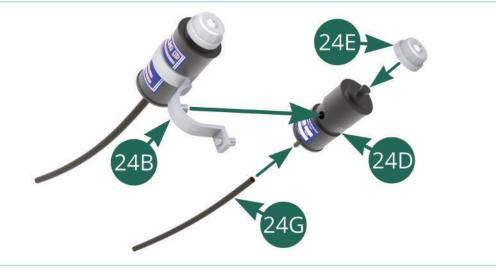
Take one of the caps (24E) and fit it onto the top of the brake fluid tank (24C). Note this tank has a larger label than the other one (orange arrow).

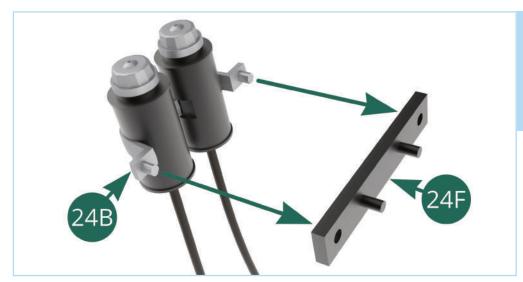
Fit the **collar link** (24B) onto the tank as shown. The tank should be located on the left of the collar when looking face on.



Push the remaining cap (24E) onto the top of the other brake fluid tank (24D).

Push the tank into the right side of the collar link (24B), then attach the remaining brake fluid hose (24G) onto the pin at the bottom of the tank.





Now fit the **collar link (24B)** onto the **support (24F)** by pushing the pins of the collar through the holes in the support.

#### STEP 3

Finally, fit the brake fluid tanks in place next to the washer reservoir by pushing the pins on the support (24F) into the corresponding holes of the V-frame (24A). Note the position brake fluid hose once the tanks have been fitted, shown opposite.

### **STAGE COMPLETE**

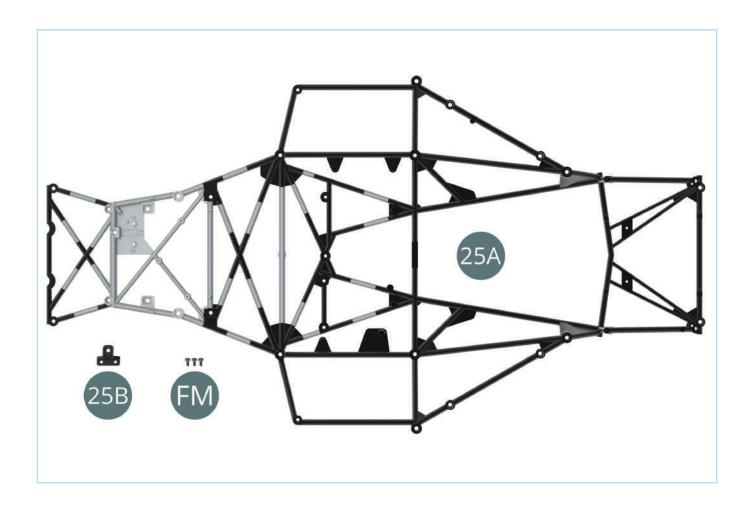


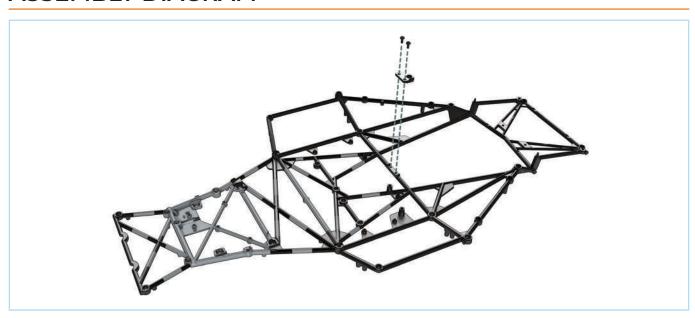
# STAGE 25: FIXING THE ENGINE MOUNT TO THE CHASSIS

25A Chassis

**FM** Screw 1.7 x 4 mm (x3)

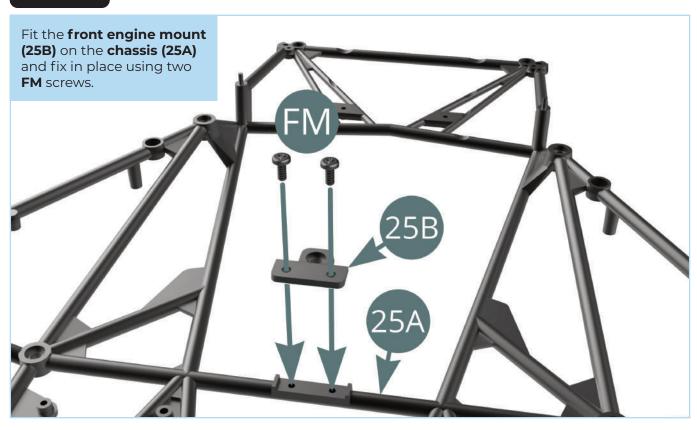
25B Front engine mount





# STAGE 25: FIXING THE ENGINE MOUNT TO THE CHASSIS

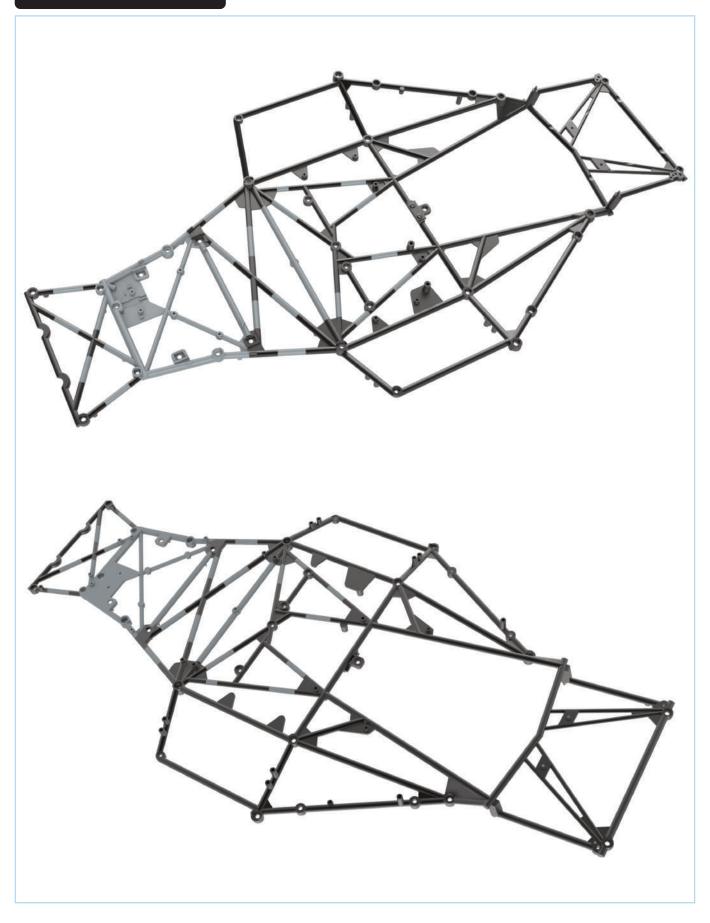
### STEP 1





# STAGE 25: FIXING THE ENGINE MOUNT TO THE CHASSIS

### STAGE COMPLETE



**26A** Footrest

26B Rod

**26C** Bottom bracket

**26D** Throttle pedal

**26E** Clutch pedal

**26F** Brake pedal

**26G** Pedal bracket

**26H** Master cylinders

**26I** Pushrod (x2)

**26J** Clutch cable

26K Brake light switch cable

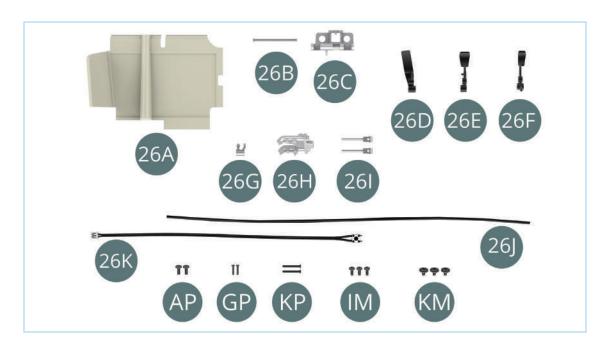
**AP** Screw 1.7 x 4 mm (x2)

**GP** Screw 1.2 x 5 mm (x2)

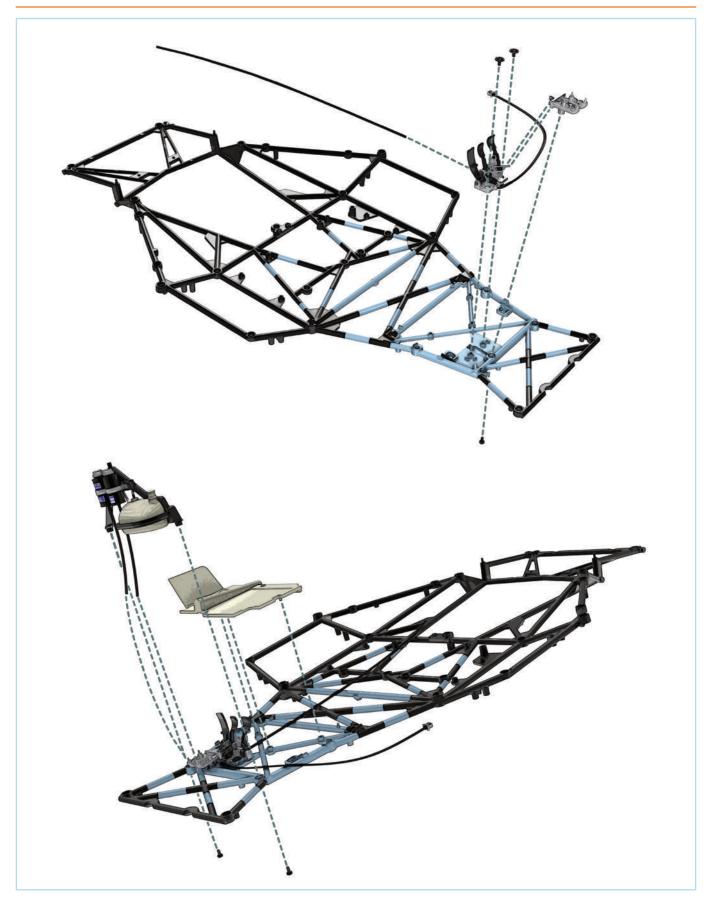
**KP** Screw 1.2 x 9.5 mm (x2)

**IM** Screw 1.7 x 3.5 mm (x3)

**KM** Screw 1.7 x 3 x 5 mm (x3)

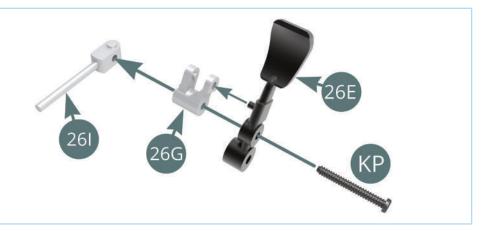






#### STEP 1

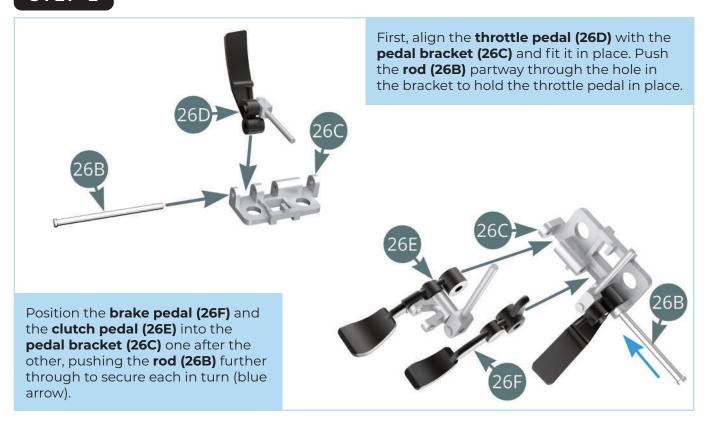
Take the clutch (26E) and fit the pin on the side into the bracket (26G) as shown. Pass a KP screw through the clutch then the bracket and drive it into the larger hole of one of the pushrods (26I). Make sure the pushrod is still able to rotate once fixed.



Fit a **GP** screw through the **throttle pedal** (**26D**) and fix into the other **pushrod** (**26I**), again using the larger hole. Make sure the pushrod is still able to rotate once fixed.



#### STEP 2



#### STEP 3

Take the brake light switch cable (26K) and position the button end in the slot located under the pedal bracket (26C). Fold the cable to the side as shown by the blue arrow.

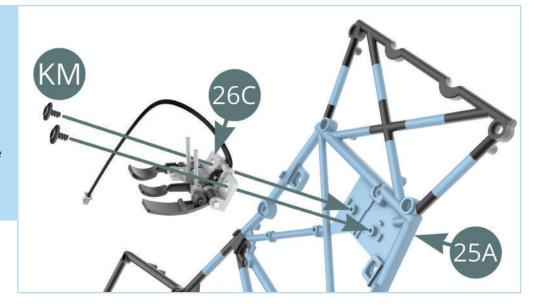




#### STEP 4

Fit the **pedal bracket** (26C) on the **chassis** (25A) then fix it in place using two **KM** screws.

Make sure the screws are tightened fully so that the button on the switch cable doesn't stay pressed when releasing the pedal.

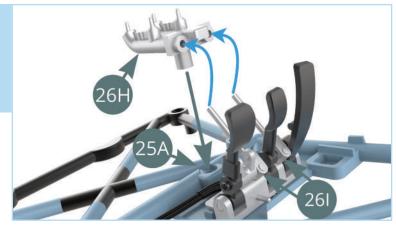




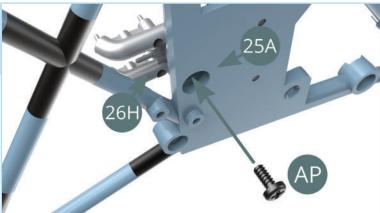
The crankset installed on the chassis.

#### STEP 5

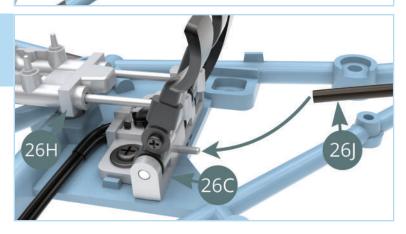
Position the **master cylinders (26H)** on the **chassis (25A)** and, at the same time, insert the two **pushrods (26I)** into their respective master cylinder housings (blue arrow).



Secure the **master cylinders (26H)** in place by driving an **AP** screw into them from underneath the **chassis (25A)**.



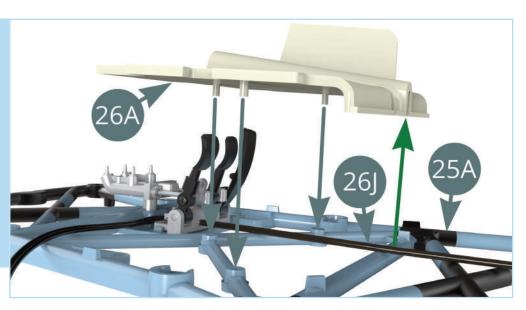
Fit one end of the clutch cable (26J) on the pin protruding from the pedal bracket (26C).



#### STEP 6

Press the footrest (26A) onto the chassis (25A) using the three lugs as shown. At the same time, pass the clutch cable (26J) through the slot in the footrest as shown by the green arrow.

The two images below show how the clutch cable passes through the slot.

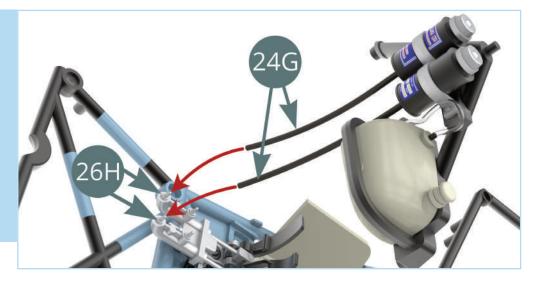




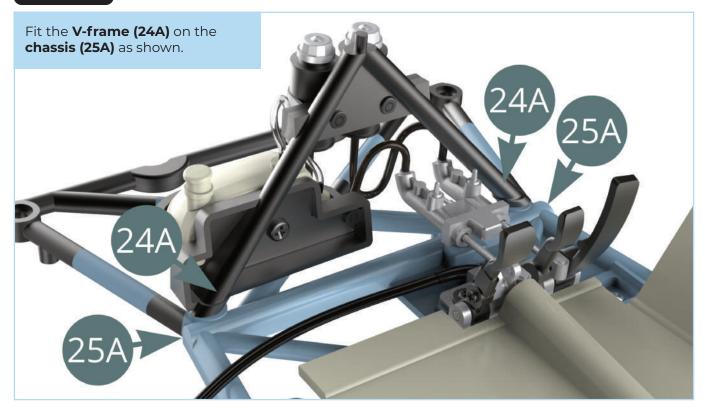
#### STEP 7

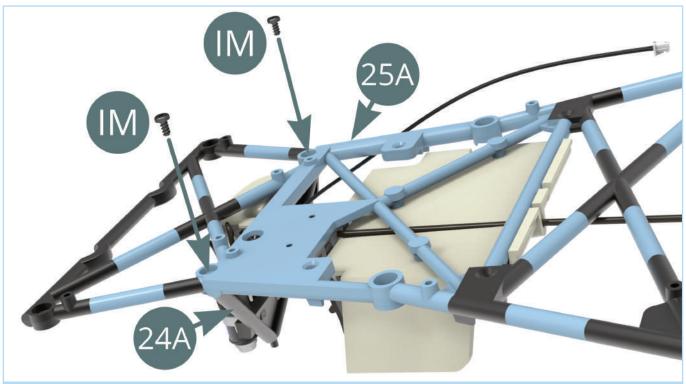
Take the V-frame with the brake fluid tanks and washer reservoir from stage 24 and align it as shown with the chassis.

Plug the ends of the brake fluid hose (24G) nozzles over the pins at the front of the master cylinders (26H) (red arrows).



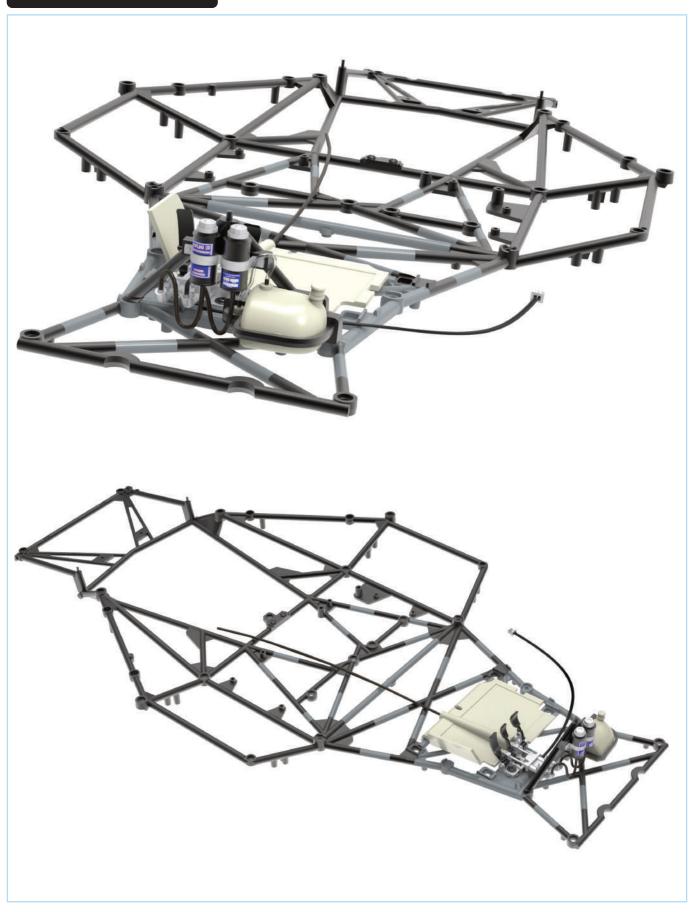
### STEP 8





Carefully turn the chassis over and secure the V-frame to it using two IM screws.

### STAGE COMPLETE



## STAGE 27: BUILDING THE DASHBOARD FRAME AND FITTING THE LEFT SUSPENSION

27A Dashboard frame

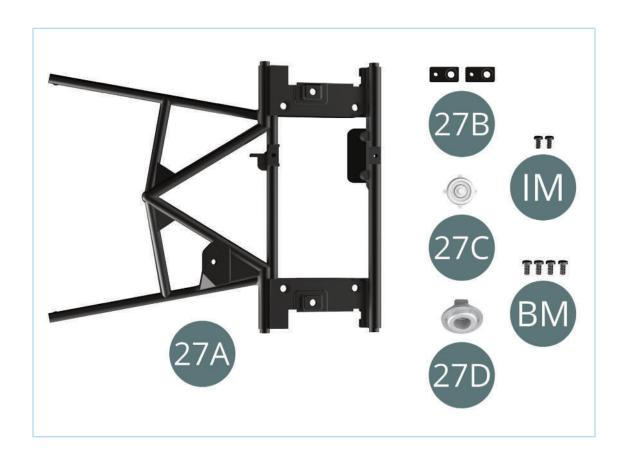
27B Plate bracket (x2)

**27C** Windscreen wiper control

27D Horn

IM Screw 1.7 x 3.5 mm (x2)

**BM** Screw 2 x 4 mm (x4)





### STAGE 27: BUILDING THE DASHBOARD FRAME AND FITTING THE LEFT SUSPENSION

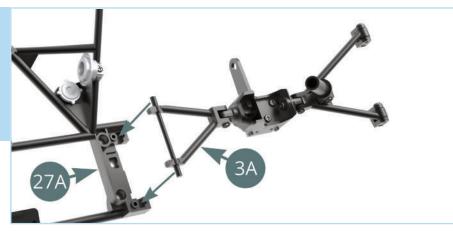
### STEP 1



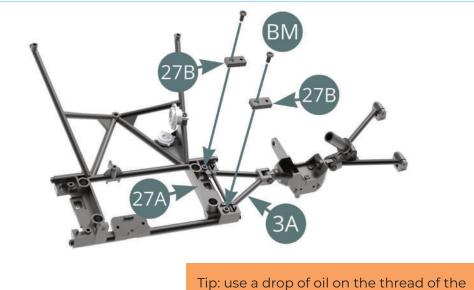
Press the windscreen wiper control (27C) into the dashboard frame (27A) as shown. Fit the horn (27D) in position on the frame then secure using an IM screw.

#### STEP 2

Take the left front suspension assembly from stage 3. Fit the upper control arm (3A) into the dashboard frame (27A) as shown.



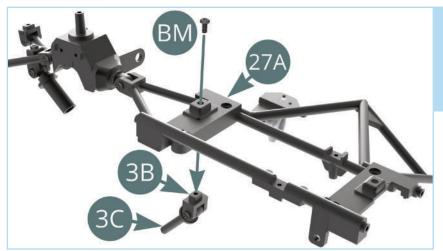
Attach the left front suspension assembly to the frame by fitting the two **plate brackets (27B)** over the upper control arm then securing each using a **BM** screw.



screws to make it easier to drive them in.

## STAGE 27: BUILDING THE DASHBOARD FRAME AND FITTING THE LEFT SUSPENSION

#### STEP 3



Retrieve the shock absorber piston assembly and fit the **upper bracket (3B)** into the socket in the **dashboard frame (27A)**. Fix the bracket using a **BM** screw.

### **STAGE COMPLETE**



**28A** Attachment

**28B** Support

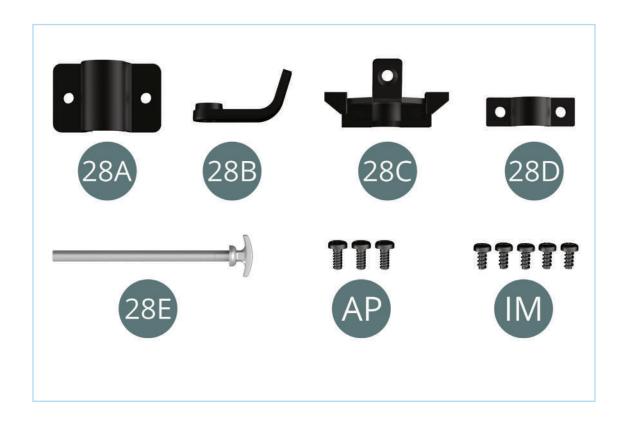
**28C** Support

28D Attachment

28E Fire extinguisher pull

**AP** Screw 1.7 x 4 mm (x3)

**IM** Screw 1.7 x 3.5 mm (x5)



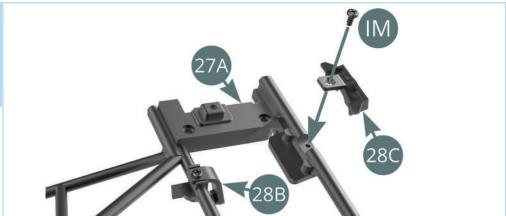


#### STEP 1

Take the dashboard frame (27A). Fit the support (28B) to it as shown then secure using an IM screw.

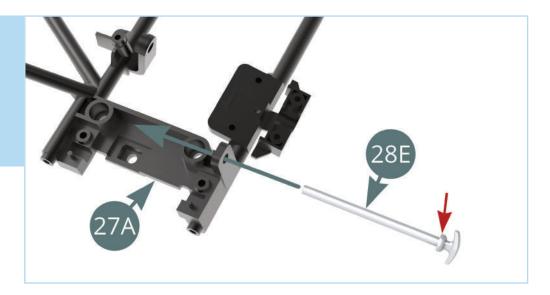


Attach the **support** (28C) opposite the previous one and fix it to the frame using an **IM** screw.



#### STEP 2

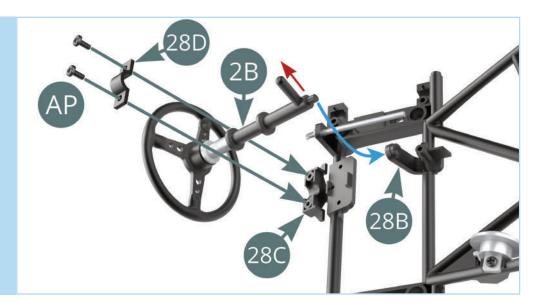
Push the fire extinguisher pull (28E) through the hole in the tab of the dashboard frame (27A) until the lip of the pull (red arrow) is flush with the tab.



#### STEP 3

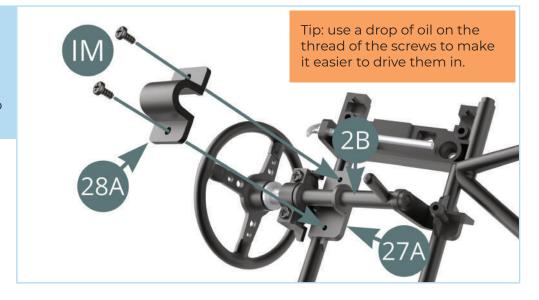
Retrieve the steering wheel assembly from stage 2. Position the end of the **steering** column (2B) on the support (28B) (blue arrow). Next, fit the attachment (28D) to the support (28C) using two AP screws.

Check that the axle at the end of steering column is oriented correctly (red arrow).



#### STEP 4

Finally, fit the attachment (28A) over the steering column and secure it to the dashboard frame (27A) using two IM screws.



### STAGE COMPLETE

