



## Pack 02

### BUILD INSTRUCTIONS

STAGE 05: THE FRONT BUMPER, OVERRIDERS,
AND LICENSE PLATE

STAGE 06: THE CRANKCASE AND THE OIL RADIATOR

STAGE 07: THE ENGINE CYLINDER HEAD

STAGE 08: THE ENGINE INTAKE HOSE

STAGE 09: THE CYLINDER HEAD COVER AND THE DISTRIBUTOR

STAGE 10: THE ALTERNATOR AND THE WATER PUMP

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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 Mercedes-Benz 300SL, 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.

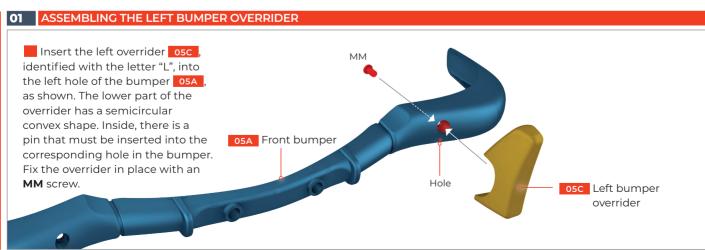
### STAGE 5: THE FRONT BUMPER, OVERRIDERS, AND LICENSE PLATE

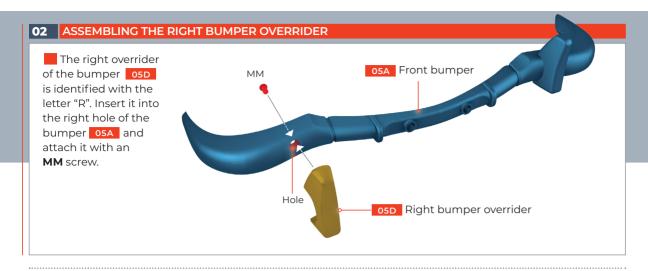
For the first stage of this pack. you will assemble the bumper with its two protective overriders, as well as the front license plate.

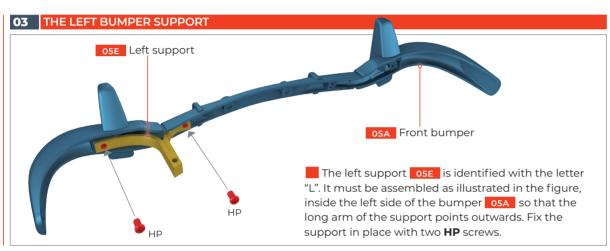


| STAGE 5 - | - REQUIRED PARTS       |          | *        |                 |
|-----------|------------------------|----------|----------|-----------------|
| Code      | Name                   | Quantity | Material |                 |
| 05A       | Front bumper           | 1        | ABS      |                 |
| 05B       | Front license plate    | 1        | ABS      |                 |
| 05C       | Left bumper overrider  | 1        | Zinc     | ded             |
| 05D       | Right bumper overrider | 1        | Zinc     | screws included |
| 05E       | Left support           | 1        | Zinc     | rews            |
| 05F       | Right support          | 1        | Zinc     | ent so          |
| НР        | Screws 2 x 4mm         | 6 + 2*   | Iron     | Replacement     |
| ММ        | Screws 2.3 x 4mm       | 2 + 1*   | Iron     | * Repl          |

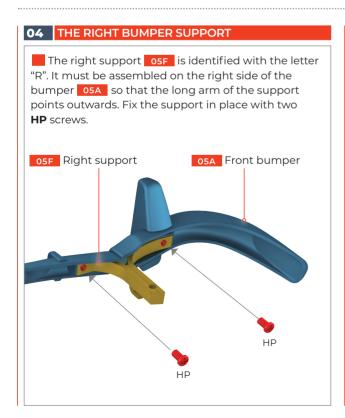


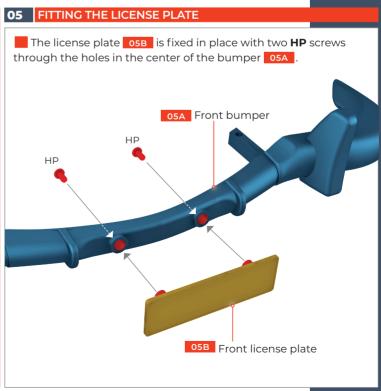






When fixing the license plate in place, make sure it is in the correct position. Otherwise, when you fit the bumper onto the model later on, the numbers will be upside-down.





### STAGE 6: THE CRANKCASE AND THE OIL RADIATOR

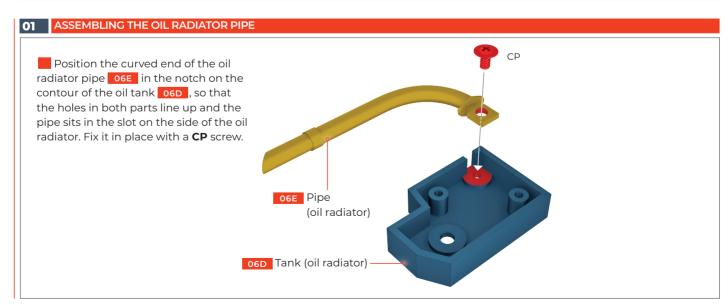
In this stage, you will assemble the oil radiator, then fix it to the left side of the crankcase. After that, you'll attach the crankcase to the left engine block.

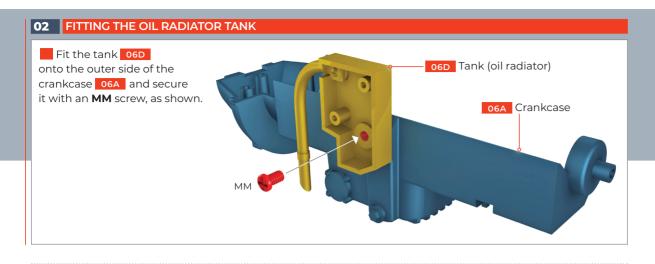


| Code | Name                       | Quantity | Material |
|------|----------------------------|----------|----------|
| 06A  | Crankcase                  | 1        | Zinc     |
| 06B  | Oil filter                 | 1        | ABS      |
| 06C  | Cover (oil radiator)       | 1        | ABS      |
| 06D  | Tank (oil radiator)        | 1        | ABS      |
| 06E  | Pipe (oil radiator)        | 1        | ABS      |
| СМ   | Screws 2 x 4mm             | 2 + 1*   | Iron     |
| ММ   | Screws 2.3 x 4mm           | 1 + 1*   | Iron     |
| СР   | Screws 1.7mm x 3mm x 4.5mm | 1 + 1*   | Iron     |
| EP   | Screws 1.7 x 4mm           | 1 + 1*   | Iron     |

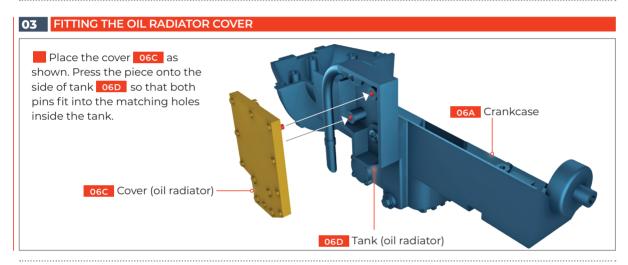
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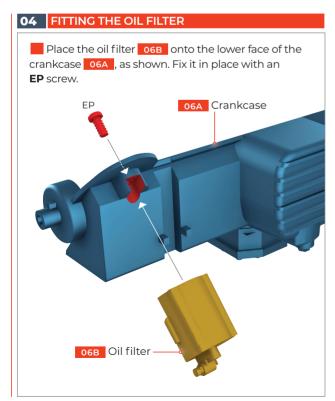


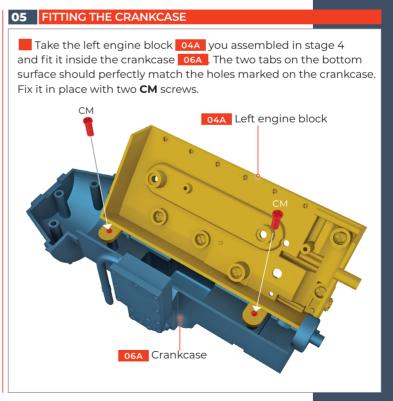




The self-tapping CM screws create their own thread as they are screwed in. To do this, screw the CM in halfway, and then remove it and the shavings. Next, screw the CM in all the way, holding the screwdriver tight and applying gentle pressure.

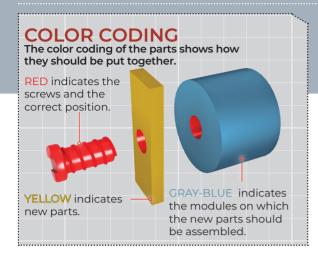






### STAGE 7: THE ENGINE CYLINDER HEAD

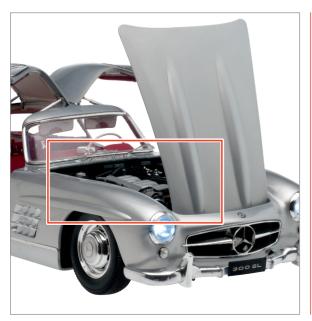
In this stage, you will join the exhaust manifolds to the engine cylinder head and fit the exhaust front pipe.

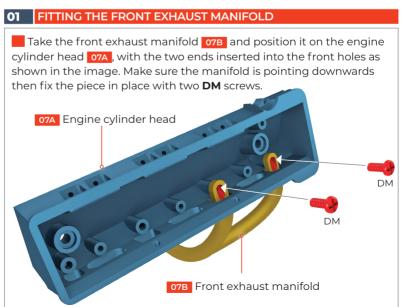


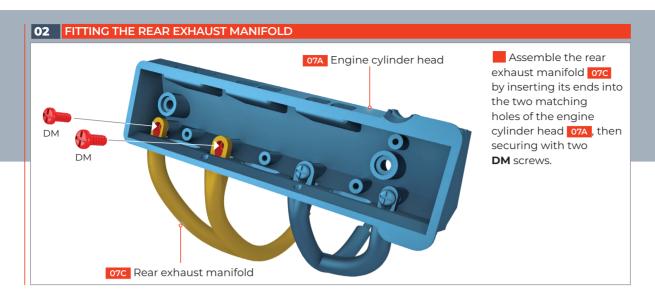
| STAGE 7 – REQUIRED PARTS |                                   |          |          |  |
|--------------------------|-----------------------------------|----------|----------|--|
| Code                     | Name                              | Quantity | Material |  |
| 07A                      | Engine cylinder head              | 1        | Zinc     |  |
| 07B                      | Front exhaust manifold            | 1        | ABS      |  |
| 07C                      | Rear exhaust manifold             | 1        | ABS      |  |
| 07D                      | Exhaust front pipe                | 1        | ABS      |  |
| 07E                      | Exhaust front pipe connector seal | 2        | ABS      |  |
| DM                       | Screws 2 x 4 x 5mm                | 4 + 2*   | Iron     |  |

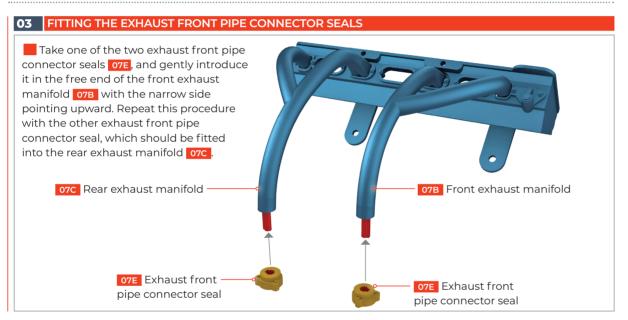
'Replacement screws included

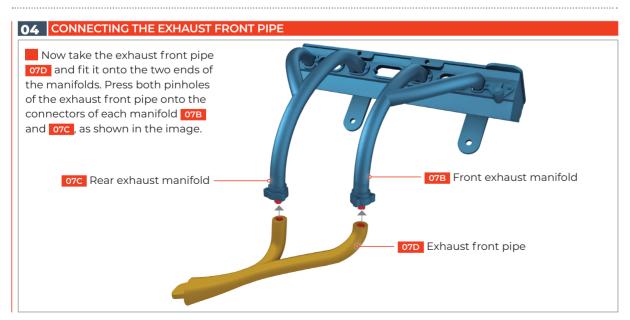












Caution!
The manifolds
must be
assembled
with the free
ends pointing
downward. Later,
they will connect
with the exhaust
front pipe.

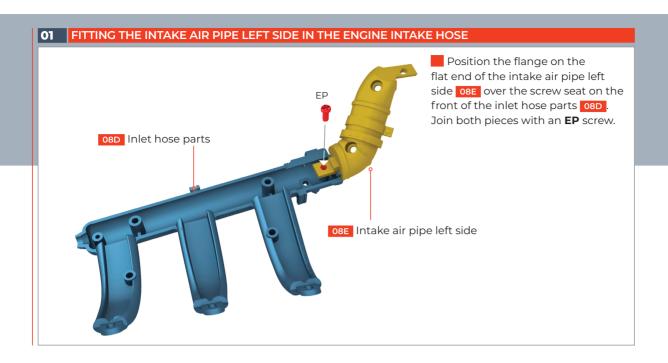
In this stage, the parts of the engine intake hose will be assembled and fixed to the engine cylinder head.

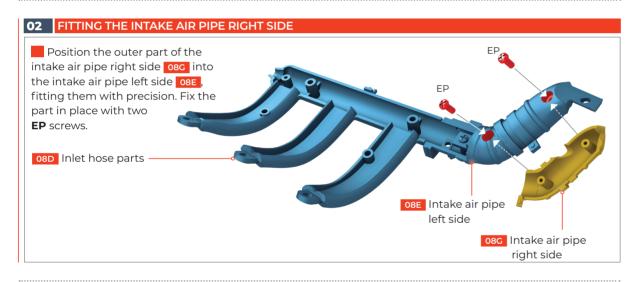


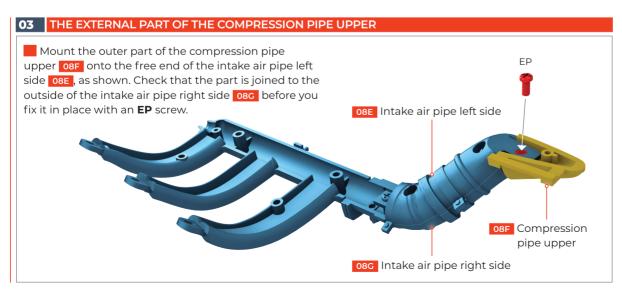
| STAGE 8 - REQUIRED PARTS |                               |          |          |
|--------------------------|-------------------------------|----------|----------|
| Code                     | Name                          | Quantity | Material |
| A80                      | Engine intake hose            | 1        | ABS      |
| 08B                      | Intake pipes heat<br>shield   | 1        | ABS      |
| 08C                      | Intake hose branch            | 1        | ABS      |
| 08D                      | Inlet hose parts              | 1        | ABS      |
| 08E                      | Intake air pipe<br>left side  | 1        | ABS      |
| 08F                      | Compression pipe<br>upper     | 1        | ABS      |
| 08G                      | Intake air pipe<br>right side | 1        | ABS      |
| Н80                      | Compression pipe<br>lower     | 1        | ABS      |
| СМ                       | Screw 2 x 4mm                 | 3 + 1*   | Iron     |
| EP                       | Screw 1.7 x 4mm               | 4 + 2*   | Iron     |
| FP                       | Screw 1.7 x 4 x 4mm           | 1 + 1*   | Iron     |
| HP                       | Screw 2 x 4mm                 | 2 + 1*   | Iron     |
| МР                       | Screw 2.3 x 4mm               | 2 + 1*   | Iron     |



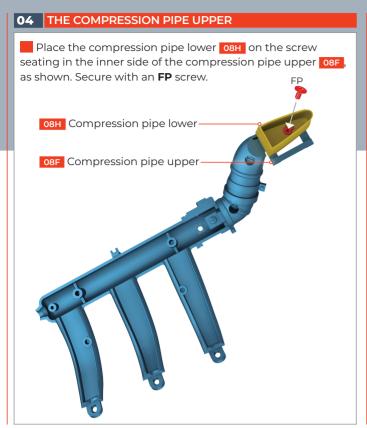


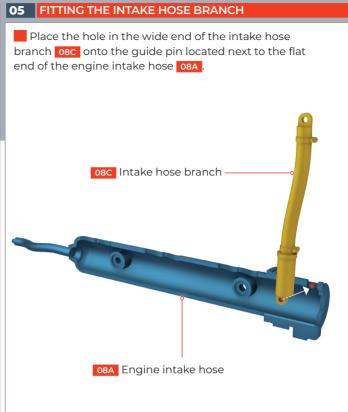


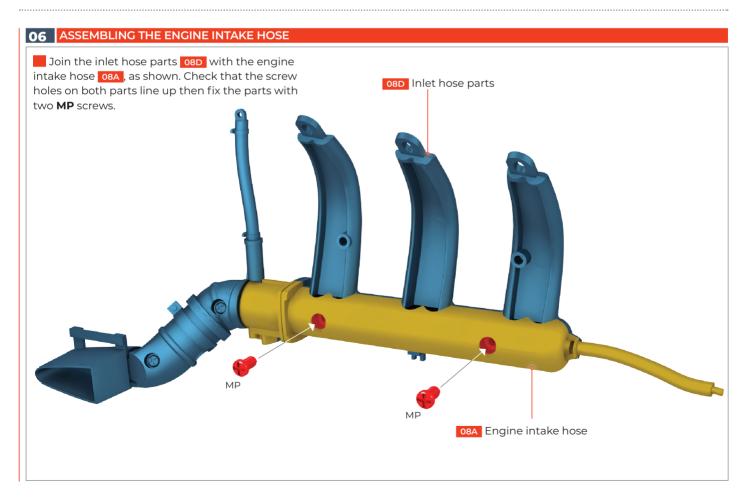


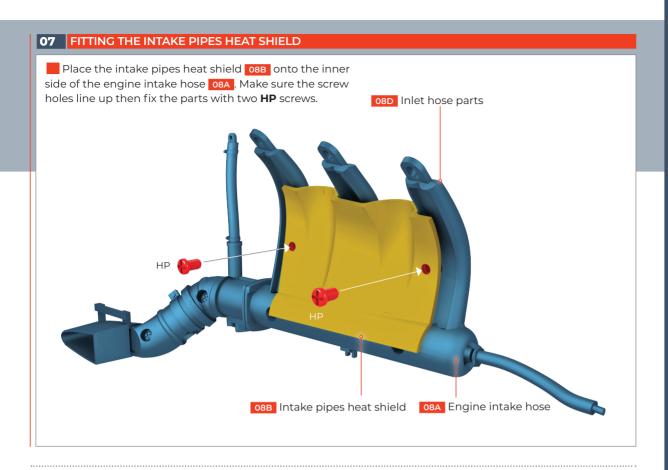


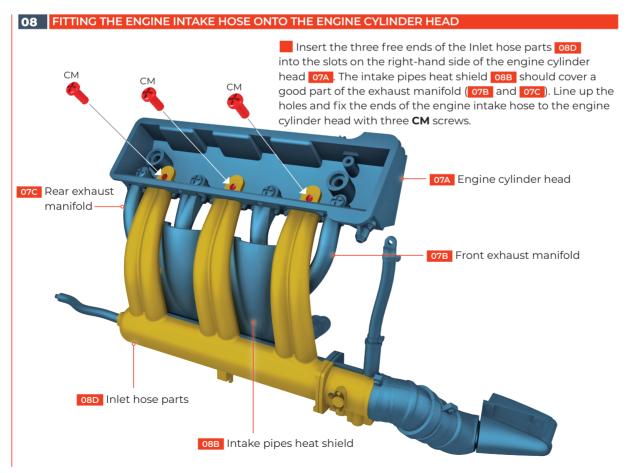
To avoid damaging the screws when tightening, hold the screwdriver tightly while applying firm pressure on the screw head.











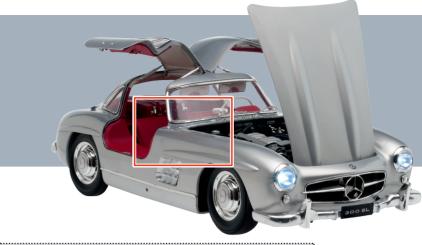
The self-tapping screws create their own thread when they are screwed in. For a perfect thread, first screw in halfway and then remove the screw. Remove all the shavings and then insert and tighten the screw all the way in, holding the screwdriver tightly and applying firm pressure.

### STAGE 9: THE CYLINDER HEAD COVER AND THE DISTRIBUTOR

In this stage, you will install the cylinder head cover and fit the distributor and the ignition cable casing to the engine cylinder head. Next, you will fix the whole engine cylinder head assembly onto the left side of the engine block.

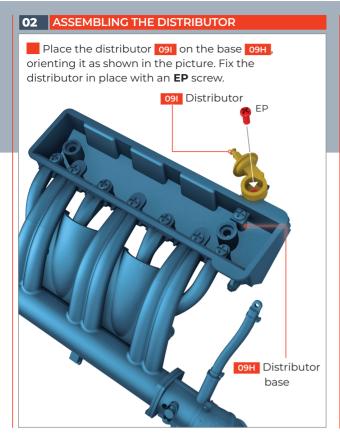


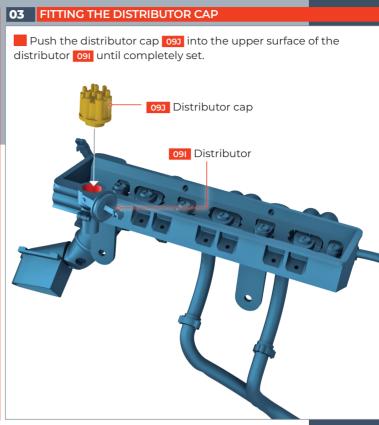
**01** FITTING THE DISTRIBUTOR BASE

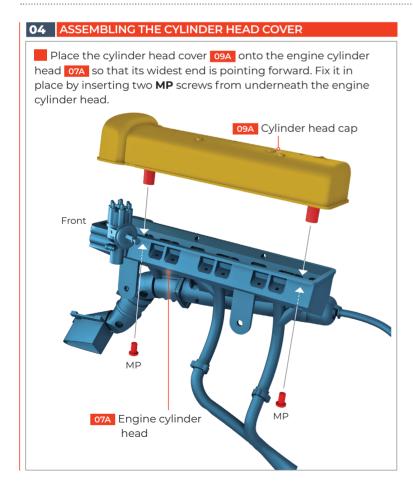


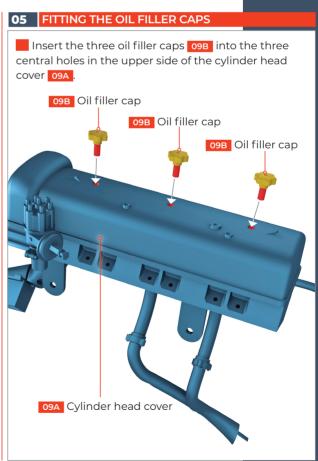
| STAGE 9 – REQUIRED PARTS |                        |          |          |
|--------------------------|------------------------|----------|----------|
| Code                     | Name                   | Quantity | Material |
| 09A                      | Cylinder head cover    | 1        | ABS      |
| 09B                      | Oil filler cap         | 3        | ABS      |
| 09C                      | Cylinder head oil line | 1        | ABS      |
| 09D                      | Ignition cable casing  | 1        | ABS      |
| 09E                      | Distributor cable      | 1        | PVC      |
| 09F                      | Spark plugs            | 3        | ABS      |
| 09G                      | Ignition cables        | 1        | PVC      |
| 09H                      | Distributor base       | 1        | ABS      |
| 091                      | Distributor            | 1        | ABS      |
| 09J                      | Distributor cap        | 1        | ABS      |
| СМ                       | Screw 2 x 4mm          | 3 + 1*   | Iron     |
| EP                       | Screw 1.7 x 4mm        | 1 + 1*   | Iron     |
| MP                       | Screws 2.3 x 4mm       | 2 + 1*   | Iron     |

## Position the distributor base OPH with the cylinder pointing downward. Next, insert its square flange into the slot on the engine cylinder head OTA as shown. Align the holes in both pieces and fix them with a CM screw.

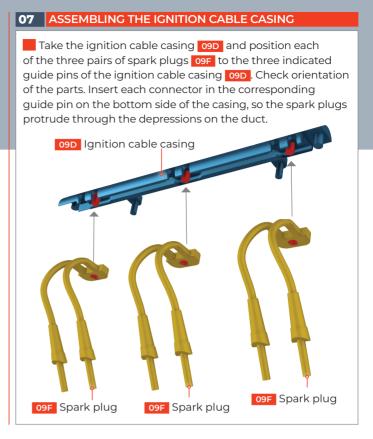


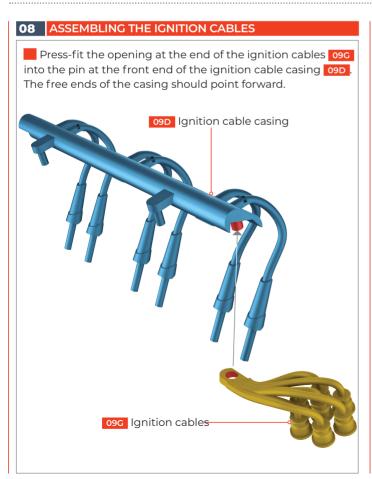


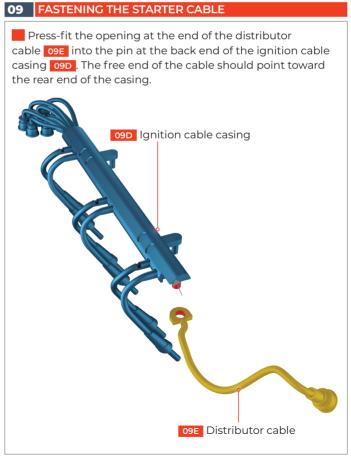


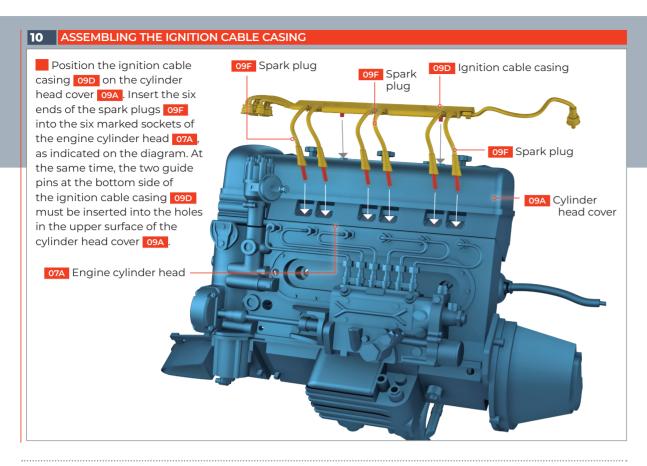


# Position the engine cylinder head OTA and the left engine block O4A as shown in the picture. Next, join both parts so the holes in the brackets on the bottom side of the engine cylinder head match the indicated screw seatings in the center of the engine block, as shown in the image. Join both parts with two CM screws. OTA Engine cylinder head O4A Left engine block

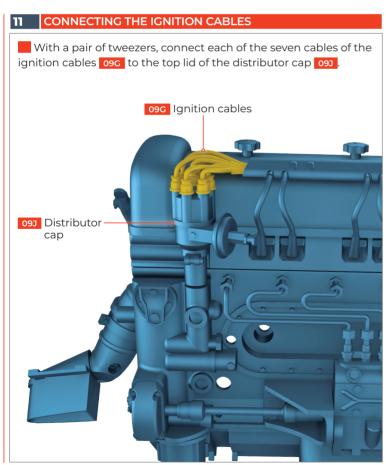


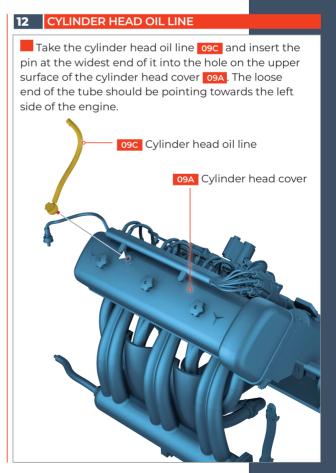






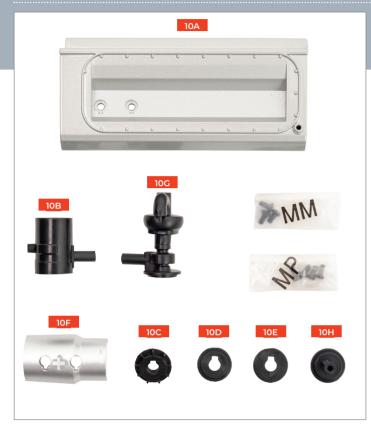
Pay close attention when inserting the spark plugs into their sockets, to keep the bolts at the tips from breaking!





### STAGE 10: THE ALTERNATOR AND THE WATER PUMP

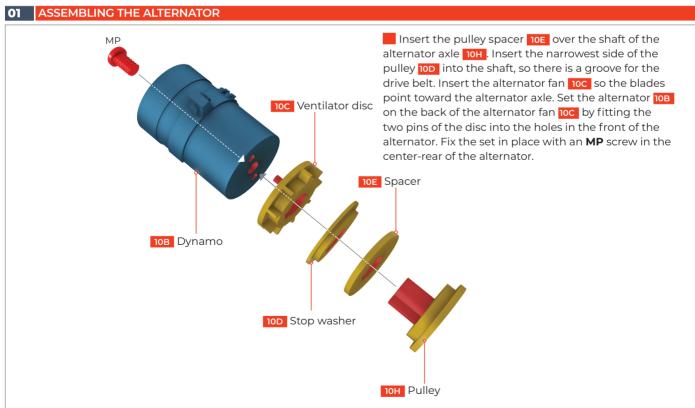
In this stage, you will assemble the alternator then connect it to the water pump and the alternator shield. Then, you will fit the whole set to the right engine block. Finally, you will put the two sides of the engine block together.

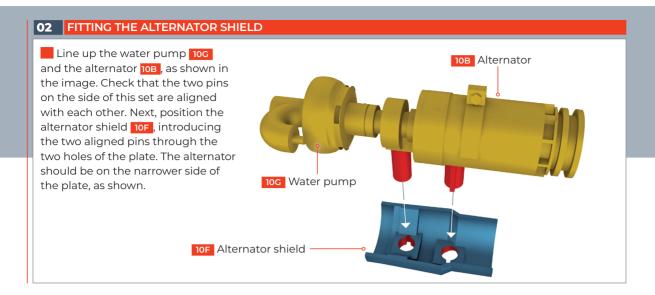


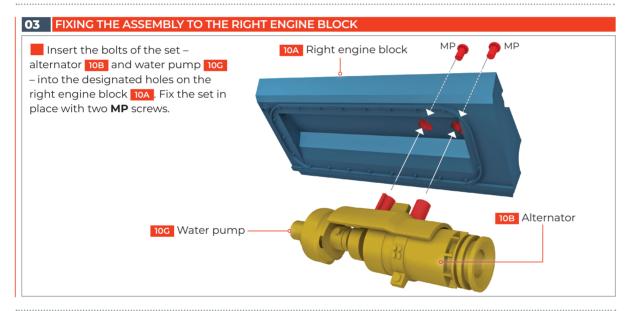
| STAGE 10 - REQUIRED PARTS |                    |          |          |  |
|---------------------------|--------------------|----------|----------|--|
| Code                      | Name               | Quantity | Material |  |
| 10A                       | Right engine block | 1        | Zinc     |  |
| 10B                       | Alternator         | 1        | ABS      |  |
| 10C                       | Alternator fan     | 1        | ABS      |  |
| 10D                       | Pulley             | 1        | ABS      |  |
| 10E                       | Pulley spacer      | 1        | ABS      |  |
| 10F                       | Alternator shield  | 1        | ABS      |  |
| 10G                       | Water pump         | 1        | ABS      |  |
| 10H                       | Alternator axle    | 1        | ABS      |  |
| ММ                        | Screws 2.3 x 4mm   | 2 + 1*   | Iron     |  |
| MP                        | Screws 2.3 x 4mm   | 3 + 1*   | Iron     |  |

Replacement screws included









Be careful, when positioning the right engine block, not to damage the other parts of the set.

### **04** ASSEMBLING THE ENGINE BLOCKS

Take the left engine block assembled in stage 9, and the right engine block. Take the right engine block 10A and slide it under the intake and exhaust manifolds until it aligns with the left engine block 104A. Join the blocks by pressing them together. Fix them in place with two MM screws (Fig. 1).

