



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.

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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.

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 – REQU	IRED PARTS		
Code	Name	Quantity	Material
05A Fro	ont bumper	1	ABS
05B Fron	t license plate	1	ABS
05C Left bu	umper overrider	1	Zinc
05D Right b	umper overrider	1	Zinc Zinc Zinc Zinc Iron Iron
05E Le	eft support	1	Zinc
05F Rig	ght support	1	Zinc
HP Scr	ews2x4mm	6 + 2*	Iron
MM Scre	ws 2.3 x 4mm	2 + 1*	Iron d



01 ASSEMBLING THE LEFT BUMPER OVERRIDER







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.

04 THE RIGHT BUMPER SUPPORT

The right support **O5F** is identified with the letter "R". It must be assembled on the right side of the bumper **O5A** so that the long arm of the support points outwards. Fix the support in place with two **HP** screws.



05 FITTING THE LICENSE PLATE



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.



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STAGE	- REQUIRED PARTS		
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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01 ASSEMBLING THE OIL RADIATOR PIPE





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.

04 FITTING THE OIL FILTER

Place the oil filter **06B** onto the lower face of the crankcase **06A**, as shown. Fix it in place with an **EP** screw.

06C Cover (oil radiator)



05 FITTING THE CRANKCASE

06D Tank (oil radiator)

Take the left engine block **04A** you assembled in stage 4 and fit it inside the crankcase **06A**. The two tabs on the bottom surface should perfectly match the holes marked on the crankcase. Fix it in place with two **CM** screws.



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







01 FITTING THE FRONT EXHAUST MANIFOLD

Take the front exhaust manifold OTB and position it on the engine cylinder head OTA, with the two ends inserted into the front holes as shown in the image. Make sure the manifold is pointing downwards then fix the piece in place with two DM screws.



03 FITTING THE EXHAUST FRONT PIPE CONNECTOR SEALS





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

Name

Quantity

Material

ABS

ABS

ABS

ABS

ABS

ABS

ABS

ABS

Iron

Iron

Iron

Iron

Iron

Code

* Replacement screws included



be assembled and fixed to the engine cylinder heac







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.





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	Ignition cable	1	PVC	
09F	Spark plugs	3	ABS	
09G	Distributor cables	1	PVC	be
09H	Distributor base	1	ABS	Replacement screws included
091	Distributor	1	ABS	ews ir
09J	Distributor cap	1	ABS	it scr
СМ	Screw 2 x 4mm	3 + 1*	Iron	men
EP	Screw 1.7 x 4mm	1 + 1*	Iron	olace
MP	Screws 2.3 x 4mm	2 + 1*	Iron	* Rep

01 FITTING THE DISTRIBUTOR BASE





06 ASSEMBLING THE LEFT ENGINE BLOCK

Position the engine cylinder head **07A** and the left engine block **04A** 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.



07 ASSEMBLING THE IGNITION CABLE CASING

Take the ignition cable casing OPD and position each of the three pairs of spark plugs OPF to the three indicated guide pins of the ignition cable casing OPD. Check orientation of the parts. Insert each connector in the corresponding guide pin on the bottom side of the casing, so the spark plugs protrude through the depressions on the duct.



08 ASSEMBLING THE DISTRIBUTOR CABLES

Press-fit the opening at the end of the distributor cables opc into the pin at the front end of the ignition cable casing opd. The free ends of the casing should point forward.



09 FASTENING THE STARTER CABLE

Press-fit the opening at the end of the ignition cable OPE into the pin at the back end of the ignition cable casing OPD. The free end of the cable should point toward the rear end of the casing.





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

CONNECTING THE DISTRIBUTOR CABLES With a pair of tweezers, connect each of the seven cables of the distributor cables 09C OPC Distributor cables OPC Distributor cables

12 CYLINDER HEAD OIL LINE

Take the cylinder head oil line opc and insert the pin at the widest end of it into the hole on the upper surface of the cylinder head cover opA. The loose end of the tube should be pointing towards the left side of the engine.



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.



01 ASSEMBLING THE ALTERNATOR







04 ASSEMBLING THE ENGINE BLOCKS



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