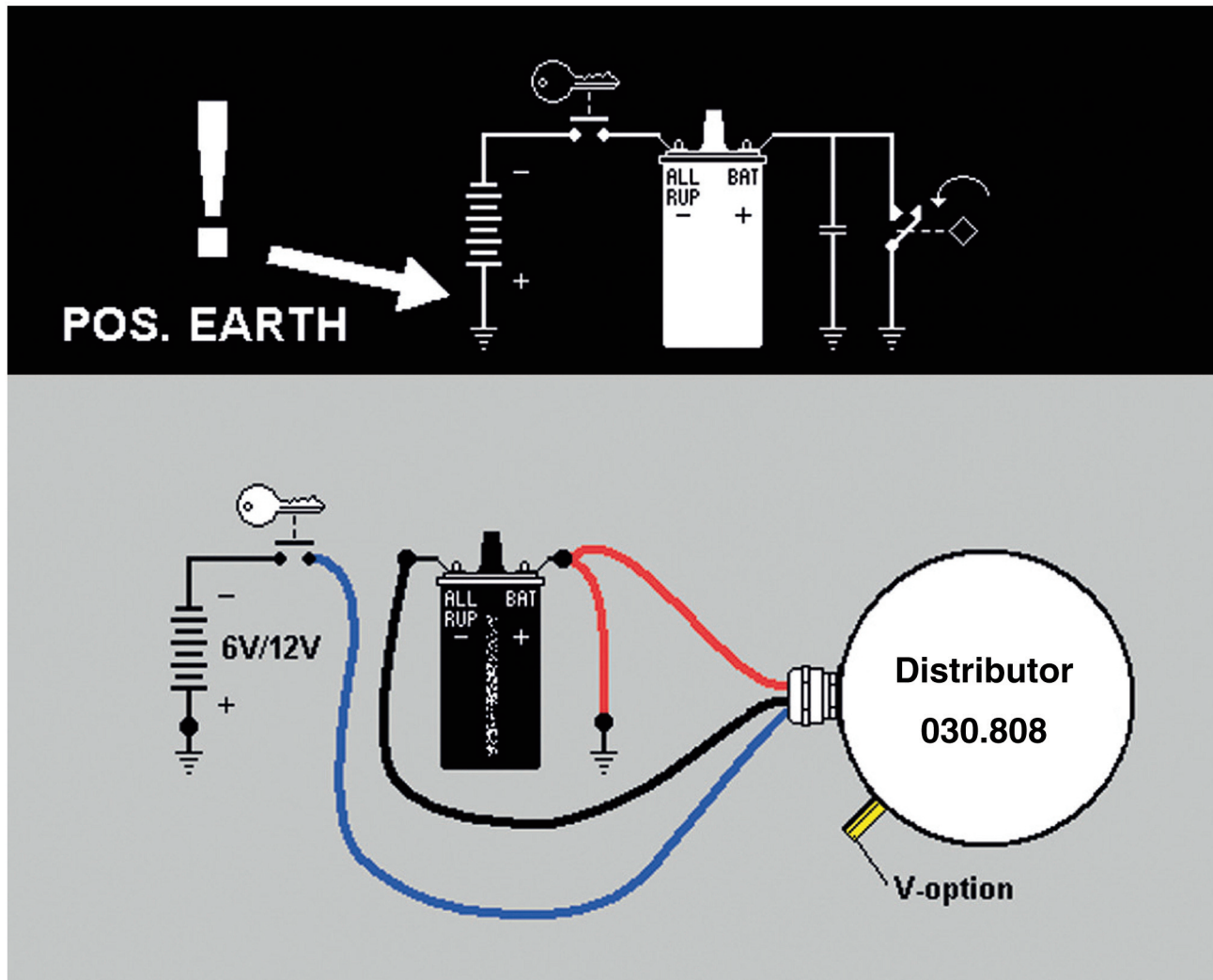


Installation Instructions for 030.808

For MGA and MGB

POSITIVE EARTH



IMPORTANT

Please read the entire instructions before you begin installation. If after reading you are unsure of the procedure to be followed, please ask someone knowledgeable in engine tuning.

Remember to work safely.

STEP 1: Find the static timing point

On the old distributor, note the position of the ignition wire to the number one cylinder.

Remove the distributor cap and turn the engine in its normal direction so that the rotor almost points to the number one cylinder position.

Now carefully turn the engine further until the Top Dead Center (TDC) is indicated on the timing mark. The engine is now at the **static timing point**, at the end of the compression stroke for the number one cylinder. If you do know the engine firing order, this is an ideal time to trace the ignition wires and make some notes.

STEP 2: Out with the old, in with the new

You should verify that the correct advance curve for your engine has been selected in your '123' using an 8mm Allen wrench remove the hexagonal plug in the bottom face of the housing. Inside the hole you will find a 16 position rotary switch. (marked '0' to 'F')



curve selector '0' to 'F'
sel. de courbe d'avance '0' à 'F'
Kurve-schalter '0' bis 'F'
Curve-schakelaar '0' tot 'F'

Check the technical data below for the proper setting. Select the curve of your choice, then re-insert the plug and tighten securely.

Now remove the spark plug wires and coil wire from the old distributor-cap and remove the old cap. Disconnect the points wire from the coil. Loosen the clamp at the base of the distributor and pull the old unit out.

Now remove the distributor-cap from the '123' and carefully insert it in the block, turning the rotor until the drive dog mates and the unit slips into place. Rotate the housing of the '123' so that the cables come out conveniently.

If necessary, the drive dog can be repositioned on the shaft to accommodate a different rotational position. To do this, remove the '123' and carefully remove the retaining spring from the drive dog, then use a small punch to tap out the pin and re-assemble at an angle more suitable to your needs.

STEP 3: Static timing the '123'

Connect the red wire to the BAT (positive) terminal of the ignition coil, according to the schematic. For now, do NOT connect the black wire. Turn on the ignition. Slowly turn the housing of the '123' in a clockwise direction until the green LED just lights up.

The LED shines through one of the four holes in the aluminum disc below the rotor. While turning, also press the rotor in a clockwise direction, to remove any free play in the drive. Finally, tighten the '123' securely, as it is also the electrical ground of the '123'. Turn off the ignition.

STEP 4: Finish the wiring

Connect the black wire to the negative terminal of the ignition coil, according to the schematic.

Connect the spark plug leads in the proper sequence to the cap, starting with the wire for the number one cylinder at the position pointed to by the rotor of the '123'.

Also connect the high voltage wire from the coil to the center position of the cap. Attach the cap to the distributor. Route the red and black wire well away from the high voltage leads and away from moving parts, using tie-wraps or other suitable means. Connect the vacuum-tube from the carburetor to the vacuum port on the '123'. Older engines may have a screw-connection for the vacuum-advance diaphragm. In this case you can use a short length of rubber hose to connect to the 123, or remove the hard line to the carburetor and replace it completely with rubber vacuum-hose.

STEP 5: Start and test drive

You can now start your engine. If you have worked accurately, your ignition should be adjusted well enough for a test drive. To achieve ultimate accuracy a fine adjustment using a stroboscope should be performed. (check the dynamic timing data in 'technical data')
Disconnect the vacuum-tube whilst fine-tuning. Enjoy your 123ignition!

TIPS

Do NOT disconnect ANY electric wire, when the engine is running. This is bad practice when using high-tech electronic systems, such as the 123ignition.

Sparks are much stronger with a 123ignition : use good quality sparkplug leads, and a good quality coil. The primary resistance should **not** be lower then 1 ohm !

Resistor-core silicone ignition-leads are the better choice! Do not use solid core wire, these send out quite a lot of electromagnetic noise that interfere with electronic devices.

Mistrust old coils : they all look alike, but you can't see if they have been overheated many times! Buy a new one, now you know that this will not be overheated anymore...

Fresh spark plugs to go with the new coil and wires will ensure optimum ignition performance.

Replace the cap and rotor every 30.000 km. Here is ordering information :

Bosch cap ref. nrs. : 1.235.522.050 / 1.235.522.058 / 1.235.522.059 / 1.235.522.145

Bosch rotor ref. nr. : 1.234.332.024

Technical data

MGA & MGB Electronic Distributor (030.808)				
Curve	Replaces Lucas	For engine	Static	Dynamic (max)
0	DM2 / 40510	MG-A until engine nr. 4003	-10	38 @ 2200
		after nr. 4003 High Compr.(HC)	-5	33 @ 2200
		after nr. 4003 Low Compr.(LC)	-10	38 @ 2200
1	40916	18G,18GA,18GB,18GD	TDC	30 @ 4200
		18GG (LC)		
2	40897/41155	18G,18GA,18GB,18GD,18GG(HC)	TDC	28 @ 2200
		18GF,18GH,18GJ		
3	41339	18GK	TDC	30 @ 4600
4	41370	18G584Z,18G585Z	TDC	41 @ 4800
5	41491	18V672Z,18V673Z	TDC	39 @ 4300
6	41288	18V581F,18V582F,18V583F	TDC	27 @ 2200
		18V581Y,18V582Y,18V583Y (HC)		
7	41290	18V581F,18V582F,18V583F	TDC	31 @ 4200
		18V581Y,18V582Y,18V583Y (LC)		
8	41032	18V (HC)	TDC	29 @ 2200
9	41234/41391	18V779F, 18V780F	TDC	38 @ 6000
	41692	18V892AE,18V893AE		
A	41610	8V846F, 18V847F	TDC	34 @ 5800
B	41599	118V797AE,18V798AE	TDC	36 @ 5000
C	-	Intended for 'stage 2' engines	TDC	32 @ 4400
D	41600/41643	18V801AE[CC],18V802AE[CC]	TDC	35 @ 4500
E	41693	18V883AE[CC],18V884AE[CC]	TDC	35 @ 4500
F	41695	18V890AE[CC],18V891AE[CC]	TDC	35 @ 4500
* Degrees advance and engine speed both relate to the crankshaft				

H O L D E N V I N T A G E & C L A S S I C