## Error in the MGBGTV8 manual rotation of the distributor - erratum

Jim Livingstone has spotted a mistake in the MGBGTV8 Supplement AKD8486 to the MGB Workshop Manual and highlights where they are.

There are several instances in the MGBGTV8 Supplement AKD8468 where the **direction of rotation of the distributor is incorrectly stated as anti-clockwise**. As it is obviously too late to issue an erratum to a 50 year old publication the purpose of this note is to alert members of the MG Car Club and in particular those in the V8 Register to this error.

As far as ignition timing is concerned the consequences of the error are not serious as most will perform this operation dynamically using a strobe lamp and feedback from the flash on the timing marks will quickly identify the effect of rotating the distributor body. For initial static setup the backlash in the rotor

shaft needs to be taken up against the direction of rotation - i.e. anti-clockwise.

Potentially more serious are the implications for those who **prime their oil system** using an electric drill and extension shaft. The drill needs to be set to **rotate clockwise to pump oil** in the normal direct of circulation. For those wishing to correct their MGBGTV8 Supplement the affected pages are: 14, 102 and 103 and highlighted copies are added at the end of this note. Note if you have early "Issue 1" pages in your V8 Supplement, the page numbers in later copies of "Issue 1" are different – see below.

For members wishing a more detailed **explanation of the rotation of the distributor** a supplementary article has been prepared and will be issued separately via the link below: MGBGTV8 distributor, explanation of the direction of rotation

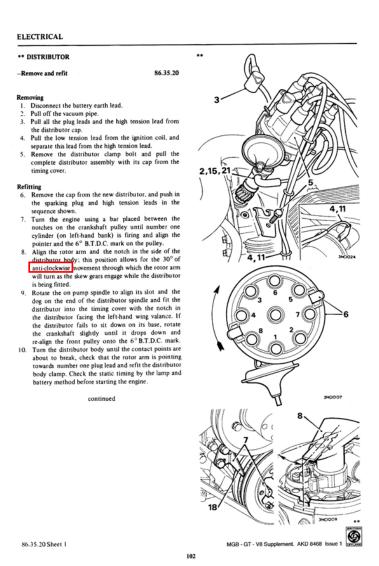
There is also another note **explaining how to adjust the ignition timing**:

MGBGTV8 distributor, explanation of ignition timing adjustment

## ENGINE TUNING DATA

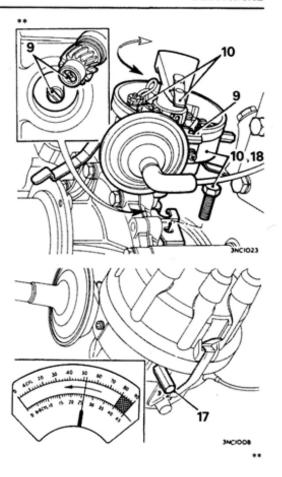
ENGINE								
Туре								V8
Capacity								215.54 in3 (3532 cm3)
Compression ratio								8.26 : 1
Firing order								1, 8, 4, 3, 6, 5, 7, 2
Cranking pressure								155 lbf/in2 (109 kgf/cm2) at 200 rev/min
Idling speed								800 to 850 rev/min
Fast idle speed								
Ignition timing:	**	••		••		**		1400 to 1500 rev/min at commencement of enrichment
**Stroboscopic at	1000							00p m p 0
Advance check					••	••	••	8°B.T.D.C.
		o rev	min 7	1	••	**	**	26° to 30° B.T.D.C.**
Timing marks			**	••			**	Pointer on timing case and degree markings on crank-
								shaft pulley
Valve clearance	**							Not adjustable
**Exhaust gas CO co	ntent							2% maximum**
DISTRIBUTOR								
Make/type								Lucas 35D8
Rotation of rotor								Anti-clockwise
Dwell angle								26° to 28°
Contact breaker ga								
Condenser capacity				**				0.014 to 0.016 in (0.35 to 0.40 mm)
Serial number		••				**	••	0.18 to 0.24 microfarad
seriai number	••	••			••	**		41394
Centrifugal advance								
Decelerating che	CKTI	**	**		**	••	••	33° to 37° at 4900 rev/min
								28° to 32° at 3600 rev/min
								24° to 28° at 2600 rev/min
								19° to 23° at 2000 rev/min
								14° to 18° at 1600 rev/min
								9° to 13° at 1200 rev/min
No advance belo	nut.							600 rev/min
Tro united Otto					••			OOO resymin
Vacuum advance								
Maximum								16° at 17 inHg (432 mmHg)
Starts								5 inHg (127 mmHg)
								,
SPARK PLUGS								
Make/type								Champion L92Y
Gap				••			**	
Оар			••					0.035 in (0.90 mm)
IGNITION COIL								
Make/type				**		**		Lucas 16C6 with ballast resistor
Primary resistance a					••	••	**	1.2 to 1.4 ohms**
Consumption-ignit	ion or	at 20	000 re	v/min		••		1A
CARBURETTER								
Make/type	••	**	••	**	**		••	SU HIF6
Specification	••	••				***	**	AUD 613 L/R
Piston spring								Yellow
Jet size								0.100 in (2.54 mm)
Needle								BBU
		† Va	acuum	disco	nnect	ed		t Crankshaft degrees and rev/min
								7
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Page 05-1 (early Issue 1) and Page 14 (later issues)



86.35.20 Sheet 1 (early Issue 1) and Page 102 (later issues)

- Pass the low tension lead through the clips on the high tension lead, and connect it to the terminal on the ignition coil.
- 12. Refit the distributor cap.
- 13. Reconnect the battery.
- Connect up electronic equipment according to the manufacturer's instructions to set the dwell angle and ignition timing.
- Plug the end of the disconnected vacuum pipe to prevent an air leak into the inlet manifold.
- Start the engine and set the idling speed to 1000 rev/min.
- 17. Check the dwell angle, and adjust if necessary to the figure given in 'DATA', by turning the hexagon headed screw on the distributor body clockwise to reduce or anti-clockwise to increase the dwell. Should this be too low initially adjust it to above the correct setting and then reduce it until the correct setting is re-obtained. If the meter being used does not have an eight cylinder scale, select the four cylinder scale and halve the readings obtained.
- 18. Slacken the distributor securing clamp bolt, and turn the distributor body clockwise to retard or anticlockwise to advance the ignition timing until the stroboscopic light synchronizes the timing pointer and the timing mark on the crankshaft pulley to the figure given in 'DATA'. Tighten the clamp bolt and re-check the timing.
- Readjust to the normal idling speed as given in 'DATA' then stop the engine.
- 20. Remove the electronic equipment.
- Unplug the vacuum pipe and reconnect it to the distributor.



## DATA

## Distributor:

Make/type					 	 Lucas 35D8
Rotation of rote	or		**		 	 Anti-clockwise
Dwell angle					 	 26° to 28°
Contact breaker	gap				 	0.014 to 0.016 in (0.35 to 0.40 mm)
Condenser capac	city				 	 0.18 to 0.24 microfarad
Serial number					 	 41394
Ignition timing (str	obosco	pic)			 	 8° B.T.D.C. at 1,000 rev/min
Engine idling speed	٠			**	 **	 800 to 850 rev/min**



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