

## TECHNICAL SERVICE BULLETIN

NO. 75-G-2



## Austin MG

January, 1975

SUBJECT:

MODELS:

1975 SPECIFICATION

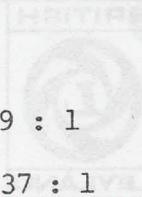
MIDGET

The 1975 Midget is now fitted with the Spitfire type engine and gearbox, therefore the following information will be useful when carrying out service operations to these vehicles.

GENERAL DATA

ENGINE	Engine type .....	PE 94J
	Bore .....	2.9 in
	Stroke .....	3.44 in
	Cubic capacity .....	91.0 in <sup>3</sup>
	compression ratio .....	7.5 : 1
	Firing order .....	1,3,4,2
	Valve rocker clearance (cold) .....	0.010 in.
	Idle speed .....	700 to 900 rev/min
	Fast idle speed (hot) .....	1,800 rev/min
	Oil pressure: Normal (approx) .....	40 to 60 lbf/in <sup>2</sup>
	Idling (approx) .....	20 lbf/in <sup>2</sup>
	Exhaust gas content (carbon monoxide) at idle speed .....	1/2 to 2% (2% nominal)
IGNITION	Spark plugs .....	Champion N12Y
	Spark plug gap .....	0.025 in
	Stroboscopic ignition timing .....	2% A.T.D.C. at idle speed
	Timing marks .....	Notch on crankshaft pulley, pointers on timing chain cover
	Distributor type .....	Lucas 45DE4 (Electronic Pointless)
FUEL SYSTEM	Recommended fuel .....	Regular (Unleaded when equipped with catalytic converter)
	Carburetter .....	Zenith Stromberg type CD4 or CD4T
	Carburetter needle .....	44A
	Pump .....	A.C. mechanically operated diaphragm type

continued .....



## TRANSMISSION

Single Rail Type (Similar to Austin Marina)

Rear axle ratio ..... 3.909 : 1

Overall gear ratios:

With synchromesh	First .....	13.337 : 1
	Second .....	8.255 : 1
	Third .....	5.602 : 1
	Fourth .....	3.909 : 1
	Reverse .....	14.670 : 1

Top gear speed per 1,000 rev/min ..... 16.4 m.p.h.

## DIMENSIONS

Track:

Pressed spoked wheel:

Front .....	3 ft 10 9/16 in.
Rear .....	3 ft 9 in

Wire wheel:

Front .....	3 ft 10 5/16 in
Rear .....	3 ft 9 1/4 in

Turning circle: Left lock ..... 32 ft 1 1/2 in

Right lock ..... 31 ft 2 1/2 in

Front wheel alignment toe-in ..... Parallel to 1/8 in

Wheelbase ..... 6 ft 8 in

Overall length ..... 11 ft 9 in

Overall width: Pressed spoke wheel ..... 4 ft 6 7/8 in

Wire wheel ..... 4 ft 8 1/2 in

Overall height ..... 4 ft 1/4 in

Ground clearance ..... 3 1/4 in

## CAPACITIES

Fuel tank .....	7.7 U.S. gal	6 1/2 gal
Engine sump including filter .....	9.6 U.S. pt	8 pt
Gearbox .....	1.75 U.S. pt	1 1/2 pt
Rear axle .....	2.1 U.S. pt	1 3/4 pt
Cooling system (with heater) .....	9 U.S. pt	7 1/2 pt
Heater .....	0.6 U.S. pt	1/2 pt

## WHEELS &amp; TIRES

Wheel size: Pressed spoked ..... 4 1/2 J SL x 13  
Wire ..... 4J x 13Tires: Size ..... 145 SR - 13  
Type ..... Radial ply (with tube  
when wire  
wheels fitted)

## TIRE PRESSURES

CONDITION	FRONT	REAR
	lbf/in <sup>2</sup>	lbf/in <sup>2</sup>
Normal car weight	22	24
Gross car weight and sustained speed	22	26

It is recommended that for sustained speeds at near the maximum the above tire pressures are increased by 4 lbf/in.<sup>2</sup>

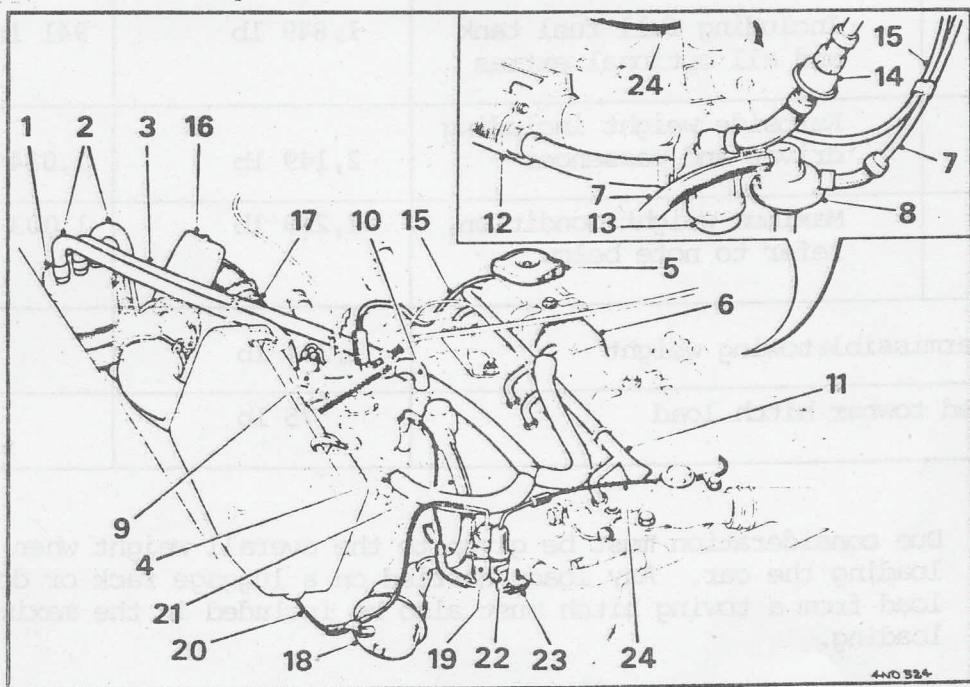
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## EMISSION CONTROL SYSTEMS

Crankcase  
emission  
control

The engine crankcase breather outlet incorporates an oil separator flame-trap (arrestor) in the top of the valve rocker cover which is connected by hoses to the controlled depression chamber between the piston and the throttle disc of the carburetter. Piston blowby fumes are drawn into the depression chamber of the carburetter from the rocker cover, and are joined by purged air from the charcoal canister of the fuel evaporative loss system. These fumes combine with the inlet charge for combustion in the normal way.

## THE EMISSION CONTROL COMPONENTS



1. Charcoal adsorption canister
2. Vapour lines
3. Purge line
4. Restricted connection
5. Sealed oil filler cap
6. Oil separator/flame trap (arrester)
7. Fuel pipe
8. Fuel pump
9. Running-on control valve
10. Running-on control pipe
11. Air manifold
12. Air pump
13. Diverter valve
14. Check valve
15. Diverter valve pipe
16. Air temperature control valve
17. Hot air hose
18. Exhaust gas recirculation valve
19. E.G.R. valve flame trap
20. E.G.R. valve line to carburetter choke cam
21. E.G.R. valve pipe
22. Distributor flame trap
23. Distributor flame trap line to carburetter
24. Flame trap line to distributor vacuum unit

continued.....

## VALVE ROCKER CLEARANCE (COLD)

**ADJUSTING** Check No.1 valve with No.8 fully open. Check No.8 valve with No.1 fully open

" " 3 " " 6 " " " 6 " " " 3 " "

" " 5 " " 4 " " " 4 " " " 5 " "

" " 2 " " " 7 " " " 7 " " " 2 " "

## WEIGHTS

Loading conditions		Total Weight	Distribution	
			Front	Rear
Kerbside	Including full fuel tank and all optional extras	1,849 lb	941 lb	908 lb
Normal	Kerbside weight including driver and passenger	2,149 lb	1,034 lb	1,115 lb
Gross	Maximum weight condition, refer to note below	2,229 lb	1,003 lb	1,226 lb
Maximum permissible towing weight		1,344 lb		
Recommended towbar hitch load		75 lb		

**NOTE:-** Due consideration must be given to the overall weight when fully loading the car. Any loads carried on a luggage rack or downward load from a towing hitch must also be included in the maximum loading.

J.P.