

mk1-performance-conversions.co.uk

Mini-Cooper 'S'

**DRIVER'S HANDBOOK
SUPPLEMENT**

For use with Driver's Handbook AKD 3890 or AKD 3891



GENERAL DATA

Use in conjunction with Handbook General Data

Engine	.. .. .	4-cylinder, overhead valves
Bore	.. .. .	2.781 in. (70.6 mm.)
Stroke	.. .. .	2.687 in. (68.26 mm.)
Cubic capacity	.. .. .	65.35 cu. in. (1071 c.c.)
Compression ratio	.. .. .	9 : 1
Firing order	.. .. .	1, 3, 4, 2
Valve rocker clearance (cold):		
Competition	.. .. .	.015 in. (.38 mm.)
Standard	.. .. .	.012 in. (.30 mm.)
Sparking plugs	.. .. .	UN12Y 14 mm.
Sparking plug gap	.. .. .	.025 in. (.64 mm.)
Contact breaker gap	.. .. .	.014 to .016 in. (.36 to .40 mm.)
Static ignition timing	.. .. .	3° B.T.D.C.
Carburettor needle	.. .. .	H.6
Wheel sizes	.. .. .	3.5B x 10 or 4.5J x 10
Tyre size: Standard	.. .. .	145-10SP, tubed
Optional	.. .. .	500L-10, tubed

Tyre pressures:

Normal conditions: Front	.. .. .	28 lb./sq. in. (1.97 kg./cm. ²)
Rear	.. .. .	26 lb./sq. in. (1.83 kg./cm. ²)

Overall gear ratios:

	Standard box	Optional box
With 3.765 ratio final drive	1st	12.05
	2nd	7.21
	3rd	5.11
	Top	3.765
	Reverse	12.05
With optional 3.444 ratio final drive	1st	11.02
	2nd	6.60
	3rd	4.67
	Top	3.444
	Reverse	11.02

Road speed in top at 1,000 r.p.m.:

3.765 ratio	.. .. .	15.55 m.p.h. (25 km.p.h.)
3.444 ratio	.. .. .	17.02 m.p.h. (27.4 km.p.h.)

Dimensions:

Track: Front (3.5 in. rim)	.. .. .	47 ¹¹ / ₁₆ in. (1.207 m.)
(4.5 in. rim)	.. .. .	48 ¹¹ / ₁₆ in. (1.233 m.)
Rear (3.5 in. rim)	.. .. .	46 ¹ / ₂ in. (1.176 m.)
(4.5 in. rim)	.. .. .	47 ¹ / ₂ in. (1.202 m.)
Turning circle	.. .. .	31 ft. 7 in. (9.63 m.)
Weight (unladen)	.. .. .	1,411 lb. (640 kg.) approx.

CONTROLS

Choke or mixture control

The use of the control varies from that given in the Driver's Handbook on page 6 in that, to lock the control in any desired position, it must be turned to the right or left. To release the control, turn it in the reverse direction and push or pull as is required.

MAINTENANCE ATTENTION

12,000 MILES (20000 Km.).

Servo air filter

Detach the air valve cover by removing the five screws, push the air valve located in the centre of the under side of the cover off its seat, and blow compressed air at low pressure into the filter chamber. Do not lubricate the filter or attempt to remove it from the air valve cover. Release the outer end of the heater air intake hose to gain access to the filter unit.



Indicating the retaining screws for the air valve cover and location of the servo

The above operation must be carried out in addition to the Maintenance Attention detailed in the Driver's Handbook.

OPTIONAL EXTRAS

Additional 5 ¹/₂ gal. (25 litre, 6.6 U.S. gal.) fuel tank to fit in R.H. side of the luggage compartment.
Sump guard.
Oil cooler.