

EXPORT EDITION

*The*  
NUFFIELD  
ORGANIZATION

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**SALESMAN'S  
REFERENCE**

MORRIS  
WOLSELEY  
RILEY  
M.G.

1953



The outstanding features of Riley Cars are here enumerated to provide a ready reference :-

- (1) **High Performance Engines.**  
The 1½ litre engine develops 55 b.h.p. at 4,500 r.p.m. and within its specifications, specially tuned, has won every worthwhile race and achieved brilliant success in Monte Carlo Rallies, Alpine Trials, and strenuous competitions all over Europe.  
The improved 2½ litre power unit gives an output of 100 h.p. on the brake while the weight of the complete car is only 4 cwt. (200 kg.) more than the 1½ litre, equivalent to an increase of 16.6 per cent., compared with the increase in the power output of 81.8 per cent. Now fitted with combined water impeller and fan.
- (2) **"Torsionic" Independent Front Suspension.**  
Welded steel struts and king-pins over 12 in. long (30 cm.) provide an extremely strong and rigid structure possessing long life.  
Damping is by hydraulic telescopic dampers of generous size.  
Springing is by long torsion bars parallel to the frame and the suspension combines exceptional steering precision with an outstanding degree of stability and ride comfort.  
Rear suspension is by semi-elliptic springs with telescopic dampers with anti-sway mountings.
- (3) **Body design.**  
The perforated metal roof, covered with fabric, eliminates drumming and reduces weight.  
The boot provides spacious luggage accommodation and houses the spare wheel in a separate compartment.  
Inter-axle seating is provided for maximum riding comfort while still providing generous rear seat accommodation.  
Front seats are of the individual type with a wide range of adjustment.  
Improved interior styling.
- (4) **Wire-spoked Telescopic Steering Wheel.**  
The wheel is of the spring type and readily adjustable for position to ensure the greatest driving comfort. It incorporates the horn button and trafficator switch.
- (5) **Exceptionally small turning circle.**  
This very desirable feature has been obtained by careful chassis design.
- (6) **Wide field of vision with "V" windscreen.**
- (7) **Remote control gear change by conveniently positioned control lever.**
- (8) **All controls are light and smooth in action.**
- (9) **Needle bearing propeller shaft transmission with intermediate shaft.**
- (10) **Hypoid rear axle giving silence and long life.**
- (11) **Hydraulic four-wheel brakes.**
- (12) **Twin fillers to petrol tank.**
- (13) **A revolution indicator is available as an extra.**
- (14) **Full-width front bumper. Twin-bar rear bumper.**
- (15) **Radio and heater equipment optional.**

## COLOURS AND UPHOLSTERY

<i>Model</i>	<i>Body Colours</i>	<i>Upholstery</i>
<b>MIDGET</b> (Series TD)	Black	Red
	Black	Green
	Black	Beige (Home only)
	M.G. Red	Red
	M.G. Red	Beige (Home only)
	Woodland Green	Green
	Woodland Green	Beige (Home only)
	Ivory	Red
	Ivory	Green
	Silver Streak Grey	Red
<i>Model</i> <b>1½ LITRE</b> (Series YB) <b>SALOON</b>	<i>Body Colours</i>	<i>Upholstery</i>
	Black	Maroon
	Black	Beige
	Black	Green
	Autumn Red	Maroon
	Autumn Red	Beige
	Woodland Green	Green
Woodland Green	Beige	
Silver Streak Grey	Red	

## M.G. CARS

## SEATING DIMENSIONS

	MIDGET (Series TD) TWO-SEATER TOURER	1½ LITRE (Series YB) SALOON
Width of front doors ... ..	25 in. (63.5 cm.)	27 in. (68.6 cm.)
Width of rear doors ... ..	—	23½ in. (60 cm.)
Width of quarter-light ... ..	—	12½ in. (32 cm.)
Height of door lights ... ..	—	12½ in. (front) (32 cm.) 13 in. (rear) (33 cm.)
Floor to roof ... ..	40 in. (102 cm.) (Hood erected)	44 in. (1-12 m.)
Front seat cushion to roof ... ..	37 in. (94 cm.)	36 in. (91 cm.)
Rear seat cushion to roof ... ..	30 in. (76 cm.)	35 in. (89 cm.)
Width over front seats at elbow ... ..	45 in. (1-14 m.)	45 in. (1-14 m.)
Width over rear seats at elbow ... ..	—	45½ in. (1-155 m.)
Width over front seats at top of cushion ... ..	45 in. (114 cm.)	19 in. (48 cm.)
Height of front cushion ... ..	7 in. (18 cm.)	10 in. (25 cm.)
Height of rear cushion... ..	—	12 in. (30 cm.)
Depth of front cushion ... ..	19 in. (48 cm.)	18 in. (46 cm.)
Depth of rear cushion ... ..	—	19 in. (48 cm.)
Height of front squab ... ..	23 in. (58 cm.)	21 in. (53 cm.)
Height of rear squab ... ..	—	23 in. (58 cm.)
Leg room (front) ... ..	{ Max. 44 in. (112 cm.) Min. 39 in. (99 cm.)	45 in. (114 cm.) 40 in. (101 cm.)
Leg room (rear) ... ..	{ Max. — Min. —	37 in. (94 cm.) 34 in. (86 cm.)
Luggage container (width) ... ..	33 in. (84 cm.)	28½ in. (72 cm.)
Luggage container (depth) ... ..	{ Max. 20 in. (51 cm.) Min. 16½ in. (42 cm.)	28 in. (71 cm.) 28 in. (71 cm.)
Luggage container (height) ... ..	13½ in. (34 cm.)	12½ in. (32 cm.)
Overall height ... ..	4 ft. 8 in. (1-4 m.)	4 ft. 9 in. (1-45 m.)
Overall length ... ..	12 ft. 1 in. (3-673 m.)	13 ft. 8 in. (4-16 m.)
Overall width ... ..	4 ft. 10½ in. (1-489 m.)	4 ft. 11 in. (1-49 m.)
Wheelbase ... ..	7 ft. 10 in. (2-387 m.)	8 ft. 3 in. (2-515 m.)
Unladen weight of car ... ..	18½ cwt. (938 kg.)	20½ cwt. (1054 kg.)

## M.G. CARS

## CHASSIS DETAILS

	MIDGET (Series TD)	1½ LITRE (Series YB)
Wheelbase ... ..	7 ft. 10 in. (2-387 m.)	8 ft. 3 in. (2-514 m.)
Track ... ..	Front 3 ft. 11½ in. (1-203 m.) Rear 4 ft. 2 in. (1-27 m.)	Front 3 ft. 11½ in. (1-203 m.) Rear 4 ft. 2 in. (1-27 m.)
Ground clearance ... ..	6 in. (15 cm.)	6 in. (15 cm.)
Position ... ..	Rear spring bolts	Rear check strap bolts
Gear control ... ..	Central remote control	Central lever (reverse stop)
Gear ratios : 1st ... ..	17-938-1	17-938-1
2nd ... ..	10-609-1	10-609-1
3rd ... ..	7-098-1	7-098-1
4th ... ..	5-125-1	5-125-1
Reverse... ..	17-938-1	17-938-1
Steering gear ... ..	Direct acting rack and pinion	Direct acting rack and pinion
Wheel size ... ..	4-00×15	4-00×15
Tyre size... ..	5-50—15	5-50—15
Tyre pressures (full load) (front) ... ..	18 lb./sq. in. (1-27 kg./cm. <sup>2</sup> )	22 lb./sq. in. (1-55 kg./cm. <sup>2</sup> )
(rear) ... ..	18 lb./sq. in. (1-27 kg./cm. <sup>2</sup> )	24 lb./sq. in. (1-69 kg./cm. <sup>2</sup> )
Petrol feed ... ..	S.U. electric pump	S.U. electric pump
Four-wheel brake actuation (front) ... ..	Lockheed hydraulic	Lockheed hydraulic
(rear) ... ..	Lockheed hydraulic	Lockheed hydraulic
Hand brake actuation ... ..	Cable on rear shoes	Cable on rear shoes
Brake-drum diameter ... ..	9 in. (22-86 cm.)	9 in. (22-86 cm.)
Ignition ... ..	Fully automatic Hypoid	Fully automatic Hypoid
Final drive ... ..	Independent coil	Independent coil
Front springs ... ..	Semi-elliptic	Semi-elliptic
Rear springs ... ..	Luvax-Girling hydraulic	Luvax-Girling hydraulic
Shock absorbers ... ..	Springs	Springs
Torque taken by ... ..	Springs	Springs
Drive taken by ... ..	31 ft. 3 in. (9-525 m.)	33 ft. 6 in. (10-21 m.)
Turning circle (R/H) ... ..	31 ft. 3 in. (9-525 m.)	33 ft. 6 in. (10-21 m.)
(L/H) ... ..	12½ gals. (56 litres)	8 gals. (36 litres)
Petrol tank capacity ... ..	(Reserve 2½ gals.) (11 litres)	2½ pints (1-28 litres)
Rear axle oil capacity ... ..	2½ pints (1-28 litres)	2½ pints (1-28 litres)
Water capacity (total) ... ..	12 pints (6-8 litres)	13½ pints (7-7 litres)

## M.G. CARS

## ENGINE UNIT DETAILS

	MIDGET (Series TD)	1½ LITRE (Series YB)
Number of cylinders ... ..	4	4
Bore ... ..	2.62 in. (66.5 mm.)	2.62 in. (66.5 mm.)
Stroke ... ..	3.54 in. (90 mm.)	3.54 in. (90 mm.)
Cubic capacity ... ..	76.28 cu. in. (1250 c.c.)	76.28 cu. in. (1250 c.c.)
Compression ratio ... ..	7.25 to 1	7.2/7.4 to 1
Valve position ... ..	O.H.V.	O.H.V.
Valve operation ... ..	Push-rod	Push-rod
Valve clearance ... ..	.015 in. (.38 mm.) hot	.019 in. (.48 mm.) hot
Firing order ... ..	1, 3, 4, 2	1, 3, 4, 2
Ignition ... ..	Coil	Coil
Gearbox ratios : 1st ... ..	3.5 to 1	3.5 to 1
2nd ... ..	2.07 to 1	2.07 to 1
3rd ... ..	(synchromesh) 1.385 to 1	(synchromesh) 1.385 to 1
4th ... ..	(synchromesh) 1 to 1	(synchromesh) 1 to 1
Reverse ... ..	(synchromesh) 3.5 to 1	(synchromesh) 3.5 to 1
Clutch ... ..	Borg & Beck single plate dry 8 in. (20.3 cm.)	Borg & Beck single plate dry 8 in. (20.3 cm.)
Oil pump by-pass set to ... ..	70 lb./sq. in. (4.5 kg./cm. <sup>2</sup> )	60 lb./sq. in. (4.2 kg./cm. <sup>2</sup> )
Engine sump capacity ... ..	10½ pints (5.96 litres)	10½ pints (5.96 litres)
Gearbox capacity ... ..	1½ pints (.7 litre)	1½ pints (.7 litre)
Sparking plugs ... ..	Champion N.A.8 14 mm.	Champion N.A.8 14 mm.
Crankshaft bearings (number) ... ..	3	3
Crankshaft bearings (type) ... ..	Shimless steel-backed white metal	Shimless steel-backed white metal
Big-end bearings (type) ... ..	Shimless steel-backed white metal	Shimless steel-backed white metal
Piston type ... ..	Controlled expansion aluminium alloy	Controlled expansion aluminium alloy
Piston rings (number) ... ..	2 compression, 1 oil control	2 compression, 1 oil control
Power output (peak) ... ..	54.4 b.h.p. at 5,200 r.p.m.	46 b.h.p. at 4,800 r.p.m.
Camshaft drive ... ..	Duplex chain	Duplex chain
Air cleaner ... ..	Home Oil bath	A.C.—Sphinx dry 1527131
	Export Oil bath	A.C.—Sphinx oil bath
Carburettor ... ..	Twin S.U.	E/AC 2536 Single S.U.

## M.G. CARS

## EQUIPMENT

	MIDGET (Series TD) TWO-SEATER TOURER	1½ LITRE (Series YB) SALOON
Upholstery ... ..	Leather	Leather
Body trimming ... ..	Leathercloth	Leathercloth
Front seats ... ..	Single squab	Bucket
Rear blind with remote control ... ..	—	Yes
Window louvres ... ..	—	—
Ventilating windows (draughtless) ... ..	—	—
Door locks (private) ... ..	—	Yes
Dash ventilator ... ..	—	—
Heater ... ..	—	—
Radio ... ..	Radiomobile optional	Radiomobile optional
Thermostatic water control ... ..	Yes	Yes
Door pulls ... ..	—	—
Pillar pull cords ... ..	—	Yes
Clock ... ..	Yes (electric)	Yes (electric)
Windscreen wiper ... ..	Twin-arm electric	Twin-arm electric
Windows ... ..	—	4 winding Triplex
Windscreen ... ..	Fold flat Triplex	Opening centre control Triplex
Driving mirror ... ..	External	Interior
Bumpers ... ..	Front and rear	Front and rear
Electrical equipment ... ..	12-volt pos. earth return	12-volt pos. earth return
Compensated voltage control ... ..	Yes	Yes
Stop-light ... ..	Yes	Yes
Fog-lamp ... ..	Optional extra	Yes
Dipping headlamps ... ..	Yes (Double)	Yes (Double)
Headlamp beam warning light ... ..	Yes	No
Roof lamp ... ..	—	Yes
Luggage container ... ..	Compartment behind rear squab	In boot
Spare wheel position ... ..	Rear	Spare wheel compartment below boot
Sun visor ... ..	—	Driver and passenger
Trafficators ... ..	—	Yes
Steering column ... ..	Fixed rake with telescopic adjustment	Fixed rake with telescopic adjustment
Radiator thermometer ... ..	Yes	—

The salient features of the M.G. cars are listed here to give a guide to selling points, many of which are not present in competitive makes of cars :—

Four-cylinder, overhead-valve engines ; force feed lubrication by gear-type pump with 100 per cent. filtration by renewable element filters. Air silencers and cleaners. Thermostatically controlled cooling. Thermometer on Midget.

Three-bearing crankshaft. Flexible engine mountings. Engine control link.

Boxed side-members with tubular cross-bracings. Boxed member for independent front suspension.

Independent front suspension of the wishbone type, incorporating coil springing. Inner points mounted on flexing rubber bushes.

Direct acting rack and pinion type steering.

Rear suspension by means of semi-elliptic laminated springs, interleaved with rubber ; mounted on rubber bushes and controlled by hydraulic dampers.

Hypoid rear axle for silence and long life.

Ventilated disc detachable wheels.

Lockheed hydraulic brakes on all four wheels on all models.

Compensated voltage control to suit load and condition of battery used on all models.

Adjustable length steering column and spring-spoked steering wheels on all models.

Separate speedometer with headlamp beam warning light, revolution counter and combined water temperature and oil pressure gauge on Midget. Combined ammeter, fuel and oil gauges and combined speedometer and electric clock on  $1\frac{1}{2}$  litre.

Fuel warning light on Midget.

Commodious coachwork on Midgets with special compartment for all-weather equipment and improved hood and sidescreens.

Saloon features include :—Sliding roof, windscreen provided with single central winding adjustment, Triplex glass, front bucket seats with sliding adjustment, and arm-rests at the rear, spacious glove locker, with lid, in fascia board, pockets on all doors, time-controlled trafficator switch, etc.

Girling or Armstrong double-acting piston-type hydraulic dampers fitted on all models.

In-built jacking system hydraulically operated on  $1\frac{1}{2}$  litre.

Spacious rear luggage boot on the  $1\frac{1}{2}$  litre and luggage space on Midget.

Very accessible tool accommodation and ample tool equipment on all models.

#### WHEN COMMUNICATING WITH THE COMPANY

The Address is : NUFFIELD EXPORTS LIMITED, COWLEY, OXFORD, ENGLAND

The Cable Address is : MOREX, OXFORD, ENGLAND

The Telephone No. is : OXFORD, ENGLAND, 77733

The Telex No. is : OXFORD TELEX 77168

When writing ALWAYS quote model, engine and car or chassis numbers, and sign your name legibly

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