

## C - SPECIFICATIONS - 4-CYL

### Article Text

1989 Toyota MR2

For Rse 555 Main Street Clarksville Va 22901

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### ARTICLE BEGINNING

#### 1989 ENGINE PERFORMANCE 4-Cyl Service & Adjustment Specifications

MR2

**NOTE:** Use this section to quickly find specifications related to servicing and on-vehicle adjustments. This section may be used for quick reference when familiar with proper adjustment procedures and only need a specification.

### BATTERY SPECIFICATIONS

#### BATTERY SPECIFICATIONS TABLE

Application	Amp Hr. Rating
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MR2 .....	66
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### FLUID CAPACITIES

#### MR2 FLUID CAPACITIES TABLE

Application	Qts. (L)
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Crankcase (Includes Filter) .....	3.5 (3.3)
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Cooling System (Includes Heater)	
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Man. Trans. (Without A/C) .....	12.9 (12.2)
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Auto. Trans. (With A/C) .....	13.6 (12.9)
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Auto. Trans. (1) (Dexron II) .....	3.3 (3.1)
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Man. Trans. (SAE 75W-90 or 80W-90) .....	2.7 (2.6)
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(1) - Drain and refill capacity.

### REPLACEMENT INTERVALS

#### REPLACEMENT INTERVALS TABLE

Component	Interval Months	Interval Miles
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Air Filter .....	36 .....	30,000
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Coolant (Radiator) .....	72 .....	60,000
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## VALVE CLEARANCE

### VALVE CLEARANCE SPECIFICATIONS TABLE

Application (1)	In. (mm)
Exhaust .....	.008-.012 (.20-.30)
Intake .....	.006-.010 (.15-.25)

(1) - Adjust valves with engine cold.

## VALVE ARRANGEMENT

NOTE: Right and left sides refer to engine, as viewed from flywheel.

MR2

Right Side - All intake.  
Left Side - All exhaust.

## IGNITION SYSTEM SPECS

### DISTRIBUTOR

#### DISTRIBUTOR PICK-UP COIL AIR GAP TABLE

Application	In. (mm)
All Models .....	.008-.016 (.2-.4)

DISTRIBUTOR PICK-UP COIL RESISTANCE TABLE	Ohms
All Models .....	140-180

IGNITION COIL	
IGNITION COIL RESISTANCE - Ohms @ 68°F (20°C) TABLE	

Application	Primary	Secondary
MR2 .....	.5-.7 .....	11,000-16,000

## HIGH TENSION WIRE RESISTANCE

### HIGH TENSION WIRE RESISTANCE TABLE

Application	Ohms (Maximum)
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All Models .....	25,000
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## SPARK PLUG SPECIFICATIONS

### SPARK PLUG APPLICATIONS

#### SPARK PLUG APPLICATIONS TABLE

Application	NGK	Nippondenso
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MR2 .....	BCPR5EP11 .....	PQ16R
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## SPARK PLUG SPECIFICATIONS

### SPARK PLUG SPECIFICATIONS TABLE

Application	Gap In. (mm)	Torque Ft. Lbs. (N.m)
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MR2 .....	.043 (1.10) .....	13 (18)
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## IGNITION TIMING SPECS

### IGNITION TIMING (Degrees BTDC @ RPM) TABLE

Application	Base Timing	Advance Timing
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MR2 .....	10@800 .	(1) More than 12@Idle
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(1) - More than 16 degrees BTDC at idle on manual transaxle models.

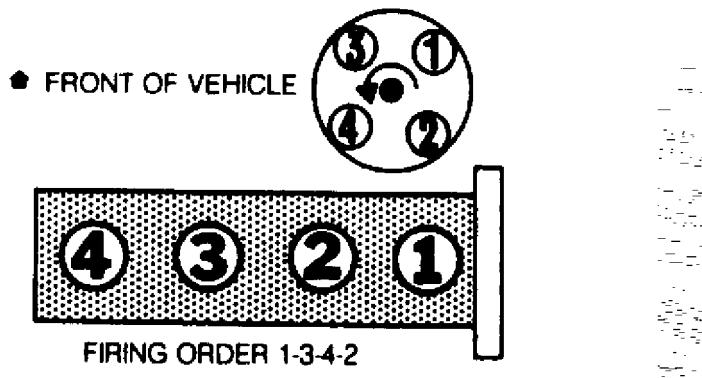


Fig. 1: Firing Order & Distributor Rotation

#### FUEL SYSTEM SPECS

##### IDLE SPEED & MIXTURE

###### IDLE SPEED SPECIFICATIONS TABLE

Application	Idle RPM
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MR2 .....	800
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#### FUEL PUMP SPECS

###### FUEL PUMP PERFORMANCE TABLE

Application	(1) Pressure psi (kg/cm <sup>2</sup> )	(2) Pressure psi (kg/cm <sup>2</sup> )
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MR2 .....	38-44 (2.7-3.1) .....	30-33 (2.1-2.3)
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(1) - With fuel pressure regulator vacuum hose disconnected and plugged.

(2) - With vacuum hose connected to pressure regulator.

MR2 .....	38-44 (2.7-3.1) .....	30-33 (2.1-2.3)
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#### TPS ADJUSTMENT SPECS

~~THE SPECIFICATIONS FOR THE TPS~~ Article Text (p. 5) 1989 Toyota MR2For Rse 555 Main Street Clarksville Va 2290  
(TPS) ADJUSTMENT SPECIFICATIONS TABLE

MR2 .....	38-44 (2.7-3.1) .....	30-33 (2.1-2.3)
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(1) Ohmmeter Reading

