

GENERAL INFORMATION

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GENERAL INFORMATION

The TOYOTA 2000 GT is an impressive new grand touring car equipped with a newly designed high performance 3M engine.

The body is of a typical unit body construction with GT's styling, and is mounted on a spinal frame providing best aerodynamic features.

The details on the construction and features are described in the following sections for reference and guidance in maintaining the efficiency built in this new car.

SPECIFICATIONS

General

Model - Right hand drive	MF10
Left hand drive	MF10L
Type	Two-door coupe, two-seater
Net vehicle weight	1,120 kg (2,464 lb)
Weight distribution - Front	565 kg (1,243 lb)
Rear	555 kg (1,221 lb)
Overall length	4,175 mm (164.4 in)
Overall width	1,600 mm (63.0 in)
Overall height	1,160 mm (45.7 in)
Tread - Front	1,300 mm (51.2 in)
Rear	1,300 mm (51.2 in)
Wheelbase	2,330 mm (91.7 in)
Overhang to body rear end	920 mm (36.2 in)
Overhang to body front end	800 mm (31.5 in)
Minimum ground clearance	155 mm (6.1 in)
Maximum tilting angle - Right	55°
Left	55°
Tire size - Front & rear	165-HR-15-TL
Maximum speed	220 km/h (137 mph)
Gradeability (Sin θ)	0.567
Minimum turning circle	10 meters (32.8 ft)
Braking distance	14 meters at 50 km/h (46 ft. at 31 mph)

Engine

Model	3M
Number of cylinders & arrangement	Six cylinder in-line, DOHC
Number of strokes per cycle	Four
Bore and stroke	75 x 75 mm (2.95 x 2.95 in)
Piston displacement	1,988 cc (121.4 cu. in)
Compression ratio	8.4 to 1
Compression pressure at 250 rpm	13.0 kg/cm ² (185 psi)
Max. explosive pressure at 6,000 rpm	62 kg/cm ² (882 psi)
Max. mean effective pressure at 5,800 rpm	11.37 kg/cm ² (162 psi)
Maximum horsepower	SAE 150 HP at 7,000 rpm
Maximum torque	SAE 18.0 m-kg (130 ft-lb) at 5,000 rpm
Min. fuel consumption at full load	240 g/hp-hr (8.5 oz/hp-hr)
Engine dimension (length x width x height)	773 x 726 x 619 mm (30.4 x 28.6 x 24.4")

1-2 GENERAL INFORMATION - Specification

Engine service weight	209 kg (460 lb)
Number of piston rings - Compression	Two
Oil	One
Intake valve - Opens	B.T.D.C. 36°
Closes	A.B.D.C. 48°
Exhaust valve - Opens	B.B.D.C. 56°
Closes	A.T.D.C. 28°
Valve clearance - Intake (cold)	0.35 mm (0.0138")
Exhaust (cold)	0.45 mm (0.0177")
Ignition timing	B.T.D.C. 35° at 750 rpm
Firing order	1-5-3-6-2-4
Distributor	Two breaker points, centrifugal and vacuum advancer
Spark plug - Size	14 mm
Point gap	0.7 ~ 0.8 mm (0.027 ~ 0.031 mm)
Ignition coil	Induction type coil with resistor
Carburetor	Trible, side-draft, SOLEX 40PHH-2, two-barrel type
Air cleaner	Replaceable felt element
Fuel pump	Electric magnet type
Fuel tank capacity	60 liters (15.9 US gal., 13.2 Imp. gal)
Lubricating system:	Forced-feed lubrication by gear pump with oil cooler
Oil pump	Gear pump
Oil cleaner	Paper filter element
Oil pan capacity	6.0 liters (1.6 US gal., 1.3 Imp. gal)
Oil cooler type	Corrugate fin & tube pressure type
Cooling system:	Pressure forced circulation type
Radiator type	Cross flow corrugated fin & tube
Cooling fan	Electro-motion type
Coolant capacity	14 liters (3.7 US gal., 3.1 Imp. gal)
Water pump	Six blade impeller centrifugal type
Thermostat	Wax pellet element type
Battery - Voltage	12 volt
Capacity (20 hr rating)	45 ampere-hours
Alternator:	3-phase, Y-type AC
Voltage	12 volts
Output	600 watts
Starter - Voltage	12 volts
Output	0.8 Kw
<u>Clutch</u>	
Type	Dry single plate
Facing size - Outer dia. x inner dia. x thickness	224 x 160 x 3.5 mm (8.82 x 6.30 x 0.14")
Facing area	193 cm x 2 (30 sq. in x 2)
<u>Transmission</u>	
Type	5-speeds forward and 1-speed reverse. All forward speed gears synchromesh

Control	Floor-shift type
Gear ratio - 1st. gear	3.143
2nd. gear	1.636
3rd. gear	1.179
4th. gear	1.000
5th. gear	0.844
reverse gear	3.238
Lubricant capacity	2.1 liters (2.22 US qts., 1.85 Imp. qts)

Propeller Shaft

Length x outer dia. inner dia.	528 x 42.7 x 35.7 mm (20.787 x 1.681 x 1.405 in)
Joint - Universal joint	Spider and needle roller bearings
Sliding joint	Sliding splines

Differential

Gear type	Hypoid gear
Reduction ratio	4.375 (4.111 ~ 4.625 as option)
Lubricant capacity	1.03 liters (1.09 US qts., 0.91 Imp. qts)

Steering

Type	Rack and pinion
Turning angle - Inner wheel	35°
Outer wheel	30.5°
Steering wheel diameter	384 mm (14.98 in)
Main shaft adjustable length	60 mm (2.36 in)

Alignment (with two passengers)

Toe-in - Front	2 mm (0.08 in)
Rear	Zero
Camber - Front	+30'
Rear	-30''
Caster - Front	2°
Rear	Zero
Steering axis inclination - Front	7° 30'
Rear	5°

Brakes

Service brake:	
Type	Hydraulic operated, disc type on all wheels with vacuum servo
Pad dimension (width x thickness x length) - Front & rear	47.5 x 16 x 54 mm (1.87 x 0.63 x 2.13'')
Pad area - Front & rear	51 cm ² x 2 (7.9 sq. in x 2)
Disc diameter - Front	280 mm (11.0'')
Rear	266.5 mm (10.5'')
Master cylinder bore	22.22 mm (0.875'')

1-4 GENERAL INFORMATION - Specification

Wheel cylinder bore - Front	53.975 mm (2.125")
Rear	38.100 mm (1.500")
Booster type	Vacuum servo
Max. hydraulic pressure at foot pressure of 100 kg (220 lb)	126 kg/cm ² (1,792 psi)

Parking brake:

Type	Mechanical operated, disc type on rear wheels
Pad dimension (width x thickness x length)	41.2 x 117 x 31.8 mm (1.62 x 0.46 x 1.25")
Pad area	21.6 cm ² x 2 (3.35 sq. in x 2)
Disc diameter	266.5 mm (10.5")

Suspension

Front

Independent, wishbones, coil springs, torsion bar type stabilizer and hydraulic telescopic shock absorbers

Rear

Independent, wishbones, coil springs, torsion bar type stabilizer and hydraulic telescopic shock absorbers

Frame

Type

X-type backbone (spinal)

Max. cross section dimension (height x width x thickness)

250 x 185.6 x 2.3 mm
(9.84 x 7.31 x 0.09")

Lamp Bulb Data

Headlight - Type

Sealed-beam, retraction type

Number & capacity

Two, 50/40 watts, clear

Driving light w/headlight horn system

Two, 50 watts, clear

Fog light (RHD only)

Two, 35 watts, yellow or clear

Front turn signal light

Two, 25/8 watts, clear

(turn signal & parking)

Rear turn signal, stop and tail light

Two, 25/8 watts, red

Back-up light

Two, 25 watts, clear

License light

Two, 10 watts, clear

Interior light

One, 10 watts, clear

Turn signal indicator light

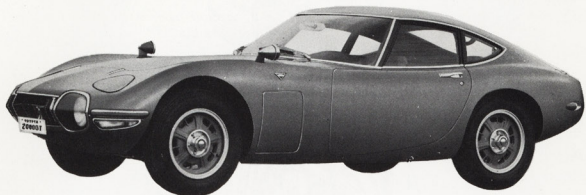
Two, 3 watts, green

High-beam indicator light

One, 3 watts, purple

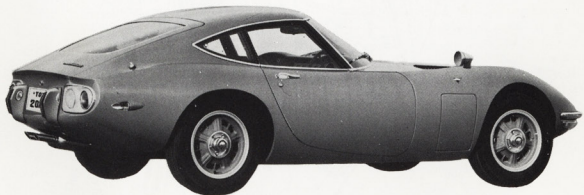
Rear reflector

Two, red



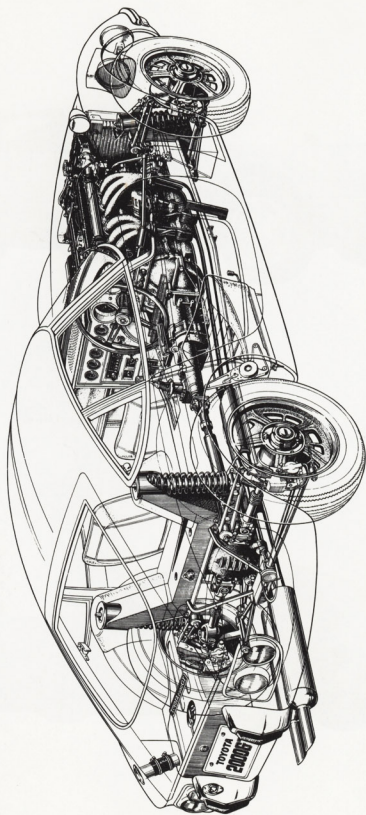
TOYOTA 2000GT Left Side View

V2089



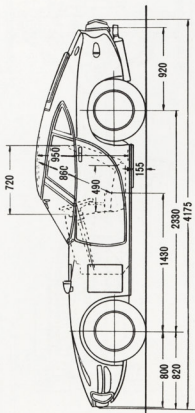
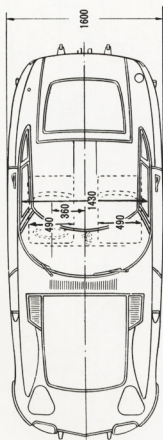
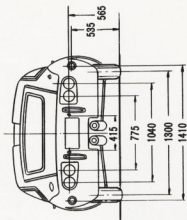
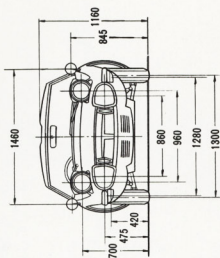
TOYOTA 2000GT Right Side View

V2090



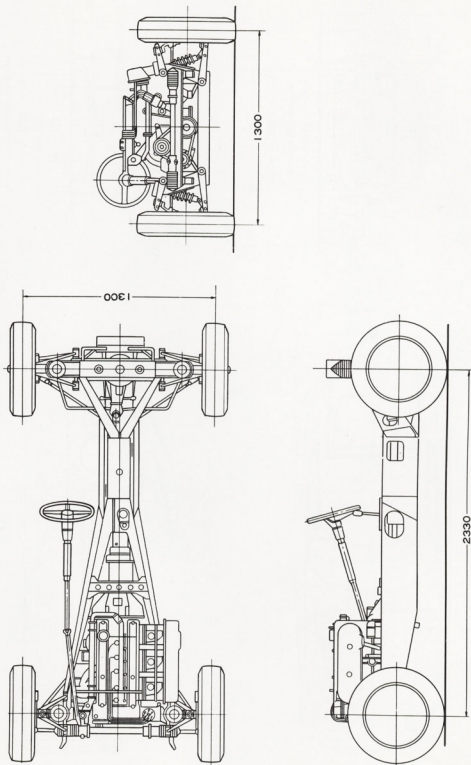
TOYOTA 2000GT Phantom View

Y 5037



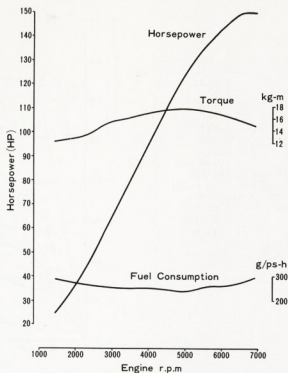
TOYOTA 2000GT Dimension Drawing

Y5039



TOYOTA 200GT Chassis Dimensional Drawing

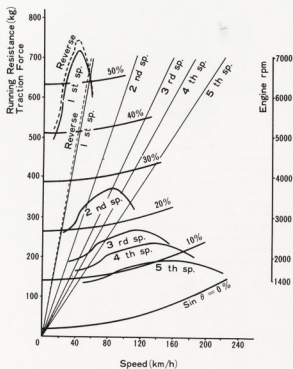
C0067



3M-Engine Performance Curve

G0068

Gear ratio:	1st speed	3.143
	2nd speed	1.636
	3rd speed	1.179
	4th speed	1.000
	5th speed	0.844
	Reverse	3.238
Reduction ratio		4.375
Gross vehicle weight		1,230 kg
Max. horsepower (@ 7,000 rpm)		150 HP
Max. torque (@ 5,000 rpm)		18.0 m-kG
Tire effective radius		0.309 m
Coeff. of rolling resistance		0.01538
Coeff. of air resistance		0.001786
Front view area		1.43 m ²
Power efficiency		
Transmission: 4th speed	0.93	
other	0.90	

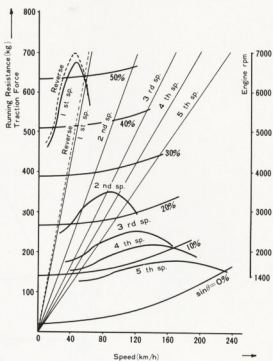


TOYOTA 2000GT Performance Curve
(w/Differential Reduction Ratio 4.375)

G0057

1-10 GENERAL INFORMATION - Specification

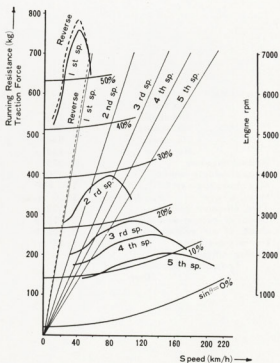
Gear ratio:	1st speed	3.143
	2nd speed	1.636
	3rd speed	1.179
	4th speed	1.000
	5th speed	0.844
	reverse	3.238
Reduction ratio		4.111
Gross vehicle weight		1,230 kg
Max. horsepower (@ 7,000 rpm)		150 HP
Max. torque (@ 5,000 rpm)		18.0 m-kp
Tire effective radius		0.309 m
Coeff. of rolling resistance		0.01538
Coeff. of air resistance		0.001786
Front view area		1.43 m ²
Power efficiency		
Transmission:	4th speed	0.93
	other	0.90



TOYOTA 2000GT Performance Curve
(w/Differential Reduction Ratio 4.111)

G0060

Gear ratio:	1st speed	3.143
	2nd speed	1.636
	3rd speed	1.179
	4th speed	1.000
	5th speed	0.844
	Reverse	3.238
Reduction ratio		4.625
Gross vehicle weight		1,230 kg
Max. horsepower (@ 7,000 rpm)		150 HP
Max. torque (@ 5,000 rpm)		18.0 m-kp
Tire effective radius		0.309 m
Coeff. of rolling resistance		0.01538
Coeff. of air resistance		0.001786
Front view area		1.43 m ²
Power efficiency		
Transmission:	4th speed	0.93
	other	0.90



TOYOTA 2000GT Performance Curve
(w/Differential Reduction Ratio 4.625)

G0059