C-SPECIFICATIONS

1992 Infiniti G20

1992 ENGINE PERFORMANCE Infiniti Service & Adjustment Specifications G20, M30, Q45

INTRODUCTION

Use this article to quickly find specifications related to servicing and on-vehicle adjustments. This is a quick-reference article to use when you are familiar with an adjustment procedure and only need a specification.

CAPACITIES

BATTERY SPECIFICATIONS

Application & Group	Amp Hr. Rating
G20 55D23L (California) 80D26L (Federal) M30 65D26R (Standard) 80D26R (Optional) Q45 95D31R	
FLUID CAPACITIES - G20	
Application	Quantity
Crankcase (Includes Filter) Cooling System (Includes Heater) M/T A/T M/T (SAE 80W-90/API GL-4) 3.8-3.9 A/T (Dexron-II)	6.5 Qts. (6.2L) 6.9 Qts. (6.5L) Qts. (3.5-3.7L)
FLUID CAPACITIES - M30	
Application	Quantity
Crankcase (Includes Filter)	8.8 Qts. (8.3L)
FLUID CAPACITIES - Q45	
	Quantity
Crankcase (Includes Filter)	0.9 Qts. (10.3L) 0.8 Qts. (10.2L)

QUICK-SERVICE

SERVICE INTERVALS & SPECIFICATIONS

REPLACEMENT INTERVALS (1)	
Component		Interval (Miles)
Air Filter		
(1) - More often under(2) - M30 only.(3) - Platinum tip.	severe operating cond	itions.
BELT ADJUSTMENT - G20		
Application	New Belt (1) Deflection	Used Belt (1) Deflection
Alternator With A/C Without A/C Power Steering	.28" (7.0 mm) .31" (8.0 mm) .16" (4.0 mm)	34" (8.5 mm)
(1) - With 22-lb. (10 k longest belt run.		t center of
BELT ADJUSTMENT - M30		
Application	New Belt (1) Deflection	Used Belt (1) Deflection
Alternator	.3" (8 mm)	,
(1) - With 22-lb. (10 k longest belt run.		t center of
longest belt run. BELT ADJUSTMENT - Q45		

Application	New Belt (1) Deflection	Used E (1) Deflect	
Alternator			
With HICAS (2) Without HICAS (2)			

- (1) With 22-lb. (10 kg) pressure applied at center of longest belt run.(2) Full active suspension.

MECHANICAL CHECKS

ENGINE COMPRESSION

Check engine compression at normal operating temperature at specified cranking speed. Release fuel pressure, and disconnect coil wire at distributor. Remove all spark plugs, and hold throttle wide open.

NOTE:

On Q45, remove air duct and harness connector bracket from left bank. Also remove ornament cover from cylinder head to access ignition coil and spark plug wires.

COMPRESSION SPECIFICATIONS - G20

Application Specification
Compression Ratio
(1) - Measured at 300 RPM.
COMPRESSION SPECIFICATIONS - M30
Application Specification
Compression Ratio
(1) - Measured at 300 RPM.
COMPRESSION SPECIFICATIONS - Q45
Application Specification
Compression Ratio
(1) - Measured at 300 RPM.

VALVE CLEARANCE

NOTE:

All vehicles are equipped with hydraulic lifters. No adjustments are required.

IGNITION SYSTEM

IGNITION COIL

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

Application	Primary	Secondary
G20 & M30		,

DISTRIBUTOR SENSORS

CRANK ANGLE SENSOR

Application (1) Fluctuating Voltage

All Models Between 5 And 0

(1) - Rotate crank angle sensor slowly by hand. Includes sub-crank angle sensor on Q45.

HIGH TENSION WIRE RESISTANCE

HIGH TENSION WIRE RESISTANCE (1)

Application			Ohms
G20 & M30		30,000	Maximum
(1) - Not applicable to Q45 distributorle	.ess :	ignition	system.

SPARK PLUGS

SPARK PLUG TYPE

Application	NGK No.
All Models	 PFR6B-11

SPARK PLUG SPECIFICATIONS

	Gá	ар		Torque
Application	In.	(mm)]	Ft. Lbs. (N.m)
All Models	 .039043	(1.00-1.10)		14-22 (20-29)

FIRING ORDER & TIMING MARKS

NOTE:

For firing order, see Figs. 1-3. Q45 uses a distributorless ignition system. Firing order for Q45 is controlled by ECU through left and right power transistors. Adjustments to timing are not possible.

■ FRONT OF VEHICLE



Firing Order 1-3-4-2 Fig. 1: Firing Order (G20)

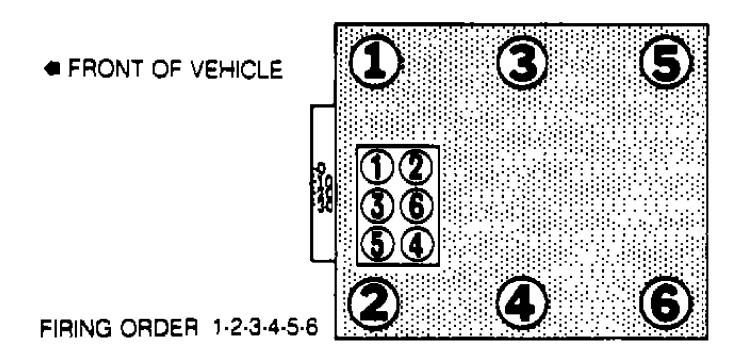
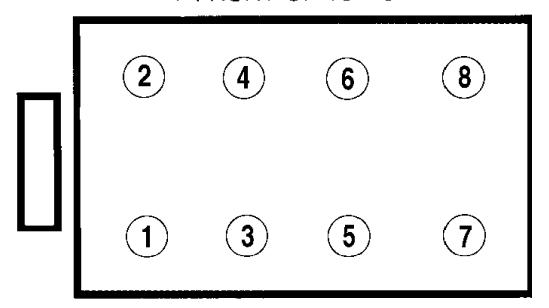


Fig. 2: Firing Order & Timing Marks (M30)

← FRONT OF VEHICLE



FIRING ORDER 1-8-7-3-6-5-4-2

92H25699Fig. 3: Firing Order (Q45)

IGNITION TIMING

IGNITION TIMING (Degrees BTDC @ RPM)

Application Specification
G20 (1) 13-17 @ 700-800 M30 (2) 13-17 @ 750-850 Q45 (2) 13-17 @ 600-700
 (1) - With Consult Tester (J-38465) in IGN TIMING ADJ in WORK SUPPORT mode or with throttle position sensor harness connector disconnected (A/T in Neutral). Adjust ignition timing by rotating distributor. (2) - Transmission in Neutral and no load on engine. Adjust
ignition timing by rotating crank angle sensor. FUEL SYSTEM
FUEL PUMP

FUEL PRESSURE

Application	(1)	psi (kg/c	m²)	(2) psi	(kg/cm²)
G20 M30 & Q45					
(1) - With vacuum hose regulator.	e co	nnected at	fuel pre	essure	
(2) - With vacuum hose regulator.	e di	sconnected	at fuel	pressure	9

INJECTOR RESISTANCE

INJECTOR RESISTANCE SPECIFICATIONS

Application	Ohms
All Models	 10-14

IDLE SPEED

IDLE SPEED SPECIFICATIONS (1)

Application	RPM
G20 M30 Q45	(2) 750-850

- (1) With Consult Tester (J-38465) in IGN TIMING ADJ in WORK SUPPORT mode or with throttle position sensor harness connector disconnected (A/T in Neutral). Adjust idle speed by turning adjustment screw on AAC valve.
- (2) With Consult Tester (J-38465) in DATA MONITOR mode or with transmission in Neutral and no load on engine. Adjust idle speed by selecting AAC VALVE ADJ in WORK SUPPORT mode or by disconnecting AAC valve harness connector. Turn adjustment screw on AAC valve. Adjust idle speed to 700 RPM on M30 and 575-625 RPM on Q45.

THROTTLE POSITION SENSOR

THROTTLE POSITION SENSOR SPECIFICATIONS

Application	(1) Volts
G20 M30 & Q45	
(1) - Voltage variation from closed throttle (idle open throttle.) to wide