TUNE-UP

GLC
626
B2000 Pickup

ENGINE IDENTIFICATION

Engine serial number and model code are stamped on right front upper wall of cylinder block.

COMPRESSION PRESSURE

Check compression pressure with engine at normal operating temperature, spark plugs removed, throttle valve wide open and engine at cranking speed. Crank engine until maximum pressure is reached at each cylinder. Compression is normal if lowest cylinder reading is at least 75% of highest reading.

Compression Pressure Specifications
(Reading @ 250 RPM)

Application	Pressure psi (kg/cm²)
Normal (New Engine)	171 (12)
Minimum	128 (9)
Maximum Variation	28 (2)

VALVE CLEARANCE

Adjust valves with engine at normal operating temperature.

Valve Clearance Specifications

Application	Intake In. (mm)	Exhaust In. (mm)
GLC	.010 (.25)	.012 (.30)
626 & B2000	.012 (.30)	.012 (.30)

VALVE ARRANGEMENT

All Models
Right Side — All Exhaust.
Left Side — All Intake.

SPARK PLUGS

Application	Gap In. (mm)	Torque Ft. Lbs. (N·m)
All Models	.031 (0.8)	13 (18)

Spark Plug Type

Application	Nippondenso	NGK
All Models		BPR-5ES or BPR-6ES

HIGH TENSION WIRE RESISTANCE

Carefully remove high tension wires from spark plugs and distributor cap. Using an ohmeter, check resistance of wires while gently twisting wire. If resistance is not to specification, or fluctuates from infinity to any value, replace wire.

Resistance (Ohms) of Wire

Application	Resistance
All Models	3300-7000 Ohms per Foot

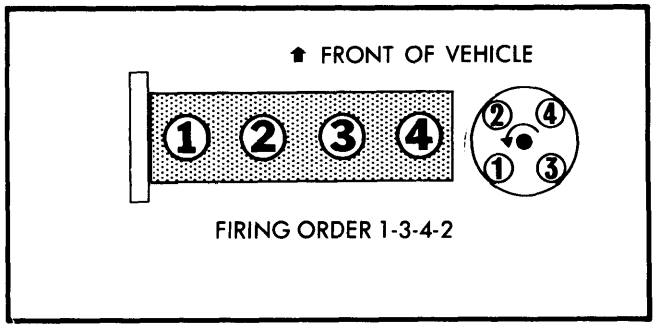

Fig. 1 Firing Order and Distributor Rotation (GLC Exc. Wagon)

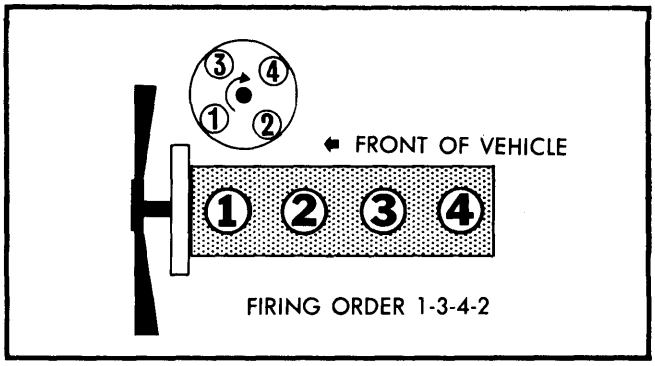

Fig. 2 Firing Order and Distributor Rotation (GLC Wagon, 626 & B2000)

DISTRIBUTOR

All models are equipped with a Mitsubishi breakerless electronic ignition system and no adjustments are needed.

IGNITION TIMING

With engine at normal operating temperature, idle speed set to specification and Man. Trans. in neutral or Auto. Trans. in "D", connect timing light, start engine and rotate distributor until specified mark on crankshaft pulley aligns with indicator pin.

Ignition Timing Specifications
(Degrees BTDC @ RPM)

Application	Man. Trans.	①Auto. Trans.
GLC	8@850	8@750
GLC Wagon	8@800	8@750
626	5@650	5@650
B2000	8@650	.....

① — Auto. Trans. in "D".

TUNE-UP (Cont.)

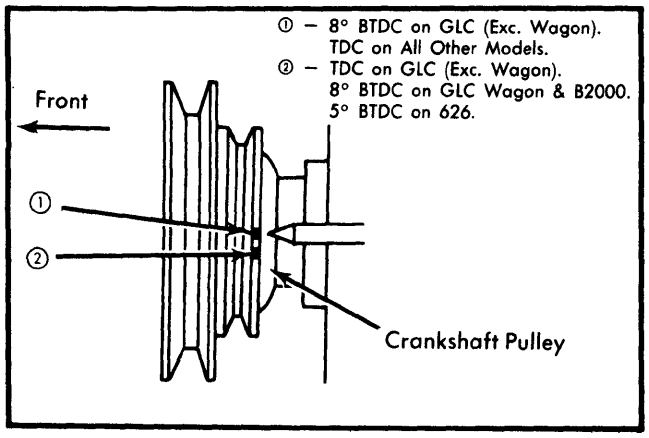

Fig. 3 Ignition Timing Mark Location

IDLE SPEED AND MIXTURE

IDLE SPEED

1) Switch off all accessories. Set parking brake and block drive wheels. Connect tachometer to engine.

2) Warm engine to normal operating temperature. Place automatic transmission in "D". Check idle speed. Adjust curb idle to specification by turning throttle adjusting screw.

NOTE – *On GLC models (except Wagon), do not adjust curb idle until electric fan motor stops running.*

Curb Idle Speed Settings

Application	Man. Trans.	① Auto. Trans.
GLC	850	750
GLC Wagon	800	750
626	650	650
B2000	650	.....

① – Auto. Trans. in "D".

IDLE MIXTURE

NOTE – *Idle mixture adjustment is generally not required. Idle mixture adjustment should be performed during carburetor overhaul. All models require removal and disassembly of carburetor to remove idle mixture screw limiter shell and blind cap.*

1) Remove carburetor from engine. Separate carburetor main body and throttle body. Using a hacksaw, cut through limiter shell (from cap end) .27" (7 mm) on GLC models (except Wagon) or .47" (12 mm) on all other models. *See Fig. 5.* Remove and discard limiter shell, mixture spring and mixture screw.

2) Install new limiter shell with flat portion facing up. To install new mixture screw, tighten screw lightly and ensure it is fully seated. Back screw out 3 turns on B2000 models and 4 turns on all other models for preliminary adjustment.

3) Reinstall carburetor with new gaskets and warm engine to normal operating temperature. Connect exhaust gas analyzer. Switch off all accessories.

4) On Federal B2000 models, disconnect air cleaner-to-reed valve hose at reed valve port. On Calif. B2000 models, disconnect air by-pass valve-to-check valve hose at check valve and plug check valve port. On all other models, disconnect air control valve-to-check valve hoses at check valves and plug check valve ports.

5) On all models, adjust idle speed to idle set specification using throttle adjusting screw. *See Mixture Adjustment chart.* Using mixture screw, set idle speed to highest obtainable RPM.

6) Using throttle screw, set idle speed to idle set specification. Turn mixture screw clockwise until lean drop specification is obtained. *See Mixture Adjustment chart.*

7) Check CO concentration. If less than 1%, turn mixture screw counterclockwise ½ turn (¼ turn on 626 and B2000 models). Reconnect air hoses and check curb idle speed. After adjusting idle mixture, install blind plug in limiter shell.

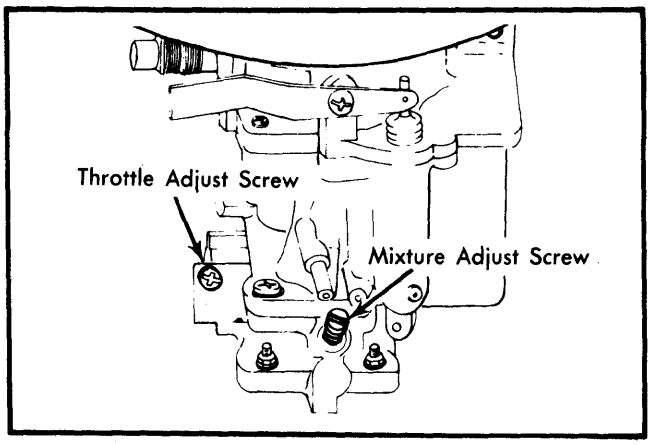

Fig. 4 Carburetor Adjustment Screw Location

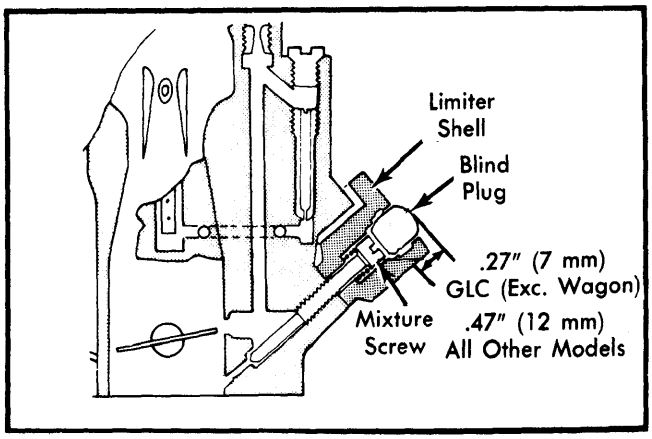

Fig. 5 Idle Mixture Limiter Shell and Blind Plug on Carburetor

TUNE-UP (Cont.)

Mixture Adjustment①

Application	Idle Set RPM	Lean Drop RPM
GLC		
Man. Trans.	880	850
Auto. Trans.	1030	1000
GLC Wagon		
Man. Trans.	830	800
Auto. Trans.	1030	1000
626		
Man. Trans.	670	650
Auto. Trans.	850	820
B2000		
Federal	670	650
Calif.	620	600

① – Auto. Trans. in "N".

COLD (FAST) IDLE RPM

1) Adjust fast idle by setting angle of primary throttle valve with choke fully closed. Position fast idle cam on first step (second step on GLC Wagon and 626 models).

2) Clearance between primary throttle valve and throttle bore should be .031-.035" (.78-.92 mm) on GLC models; .033" (.85 mm) on GLC Wagon models; .019-.026" (.50-.65 mm) on 626 models; and .05-.06" (1.3-1.5 mm) on B2000 models. Adjust angle to specifications by turning adjusting screw.

FUEL PUMP PRESSURE & VOLUME

Pressure (At Idle)	
GLC	2.8-3.8 psi (.20-.27 kg/cm²)
626 & B2000	2.8-3.6 psi (.20-.25 kg/cm²)
Volume (At Idle)	
GLC	.7 pts. in 30 seconds
626 & B2000	.8 pts. in 30 seconds

EXHAUST EMISSION SYSTEMS

See EXHAUST EMISSION SYSTEMS section.

GENERAL SERVICING

IGNITION

DISTRIBUTOR

All models are equipped with a Mitsubishi breakerless electronic ignition system.

IGNITION COIL

Resistance Specifications (Ohms @ 68°F)

Application	Primary	Secondary
GLC, GLC Wagon & 626	1.15	.....
B2000	.90	7000

FUEL SYSTEMS

CARBURETORS

Application	Model
GLC	Hitachi 2-Bbl.
626	Nikki 2-Bbl.
B2000	Nikki 2-Bbl.

ELECTRICAL

BATTERY

Application	Amp. Hr. Rating
GLC	
Federal	45
Calif.	33
GLC Wagon, 626 & B2000	①45

① – 70 Amp. battery also available on B2000.

STARTER

Mitsubishi ..... Overrunning Clutch

Starter Specifications

Application	Volts	Amps	Test RPM
626 Auto Trans.	11.5	60	6600
All Other Models	11.5	53	6800

ALTERNATOR

All models are equipped with Mitsubishi alternators.

Application	Load Test Amp. Output
GLC & B2000	30@2500 RPM or less
626	42@2500 RPM or less

ALTERNATOR REGULATOR

All models are equipped with a Mitsubishi adjustable alternator regulator with an operating voltage of 14-15 volts.

1981 Mazda 4 Tune-Up

GENERAL SERVICING (Cont.)

BELT ADJUSTMENT

Application	①Deflection
Alternator Belt	②.3-.4" (8-10 mm)
Air Conditioner Belt	.6-.7" (15-18 mm)
Air Pump Belt	
GLC Wagon	③.3-.4" (8-10 mm)
626 & B2000	.4-.6" (10-15 mm)

① – Deflection is with 22 lbs. (10 kg) pressure applied midway on longest belt run.
② – GLC (except Wagon) is .47-.50" (12-13 mm).
③ – GLC (except Wagon is .63-.70" (16-18 mm); with A/C, .43-.50" (11-13 mm).

FILTERS

Filter	Service Interval (Miles)
Oil Filter	Replace every 7500
Air Filter	Replace every 30,000
Fuel Filter (B2000)	Replace every 15,000

CAPACITIES

Application	Quantity
Crankcase (Includes Filter)	
GLC	3.2 qts.
626 & B2000	4.1 qts.
Cooling System (Includes Heater)	
GLC	5.8 qts.
626	7.9 qts.
B2000	7.6 qts.
Manual Transaxle (ATF Type "F")	3.4 qts.
Manual Transmission (SAE 80W-90)	
4-Speed	
GLC Wagon	1.4 qts.
B2000	1.6 qts.
5-Speed	1.8 qts.
Automatic Transaxle (ATF Type "F")	6.0 qts.
Automatic Transmission (ATF Type "F")	
GLC Wagon	6.0 qts.
626	6.6 qts.
Rear Axle (SAE 80W-90)	
GLC Wagon	1.6 pts.
626	2.6 pts.
B2000	2.8 pts.
Fuel Tank	
GLC	11.1 gals.
GLC Wagon	11.9 gals.
626	14.5 gals.
B2000	
Standard Bed	14.8 gals.
Long Bed	17.4 gals.