

TUNE-UP

Le Car

ENGINE IDENTIFICATION

Type of vehicle and engine number is marked on a number plate riveted to the left rear side of the engine block. Plate is located just below cylinder head mating surface. First five digits indicate engine type.

Engine Codes

Application	Code
Le Car	847-25

VALVE CLEARANCE

Application	Intake	Exhaust
Le Car	⓪.006" (.15 mm)	⓪.008" (.20 mm)

⓪ — Set valves with engine cold.

VALVE ARRANGEMENT

E-I-I-E-E-I-I-E (Front to Rear)

SPARK PLUGS

Application	Gap In. (mm)	Torque Ft. Lbs. (mkg)
All Models024 (.6)	20 (2.8)

Spark Plug Type

Application	Bosch	Champion
Federal		N12Y
Calif.	WR9DS	

HIGH TENSION WIRE RESISTANCE

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

Resistance (Ohms) Per Wire

Application	Ohms
All Models	25,000-30,000

DISTRIBUTOR

All models are equipped with dual pick-up electronic ignition distributors. Trigger plate gap is adjustable and should be set to .012-.024" (.3-.6 mm).

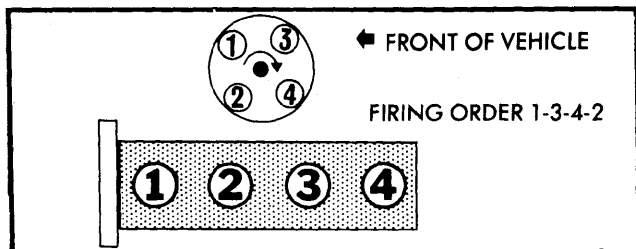


Fig. 1 Le Car Firing Order and Distributor Rotation

IGNITION TIMING

Check or adjust ignition timing with vacuum line disconnected and plugged and engine running at idle speed. To adjust, turn distributor until specified mark on flywheel is aligned with specified graduation mark on clutch housing. Reconnect distributor vacuum hose.

Ignition Timing Specifications

Application	Timing
All Models	3° BTDC

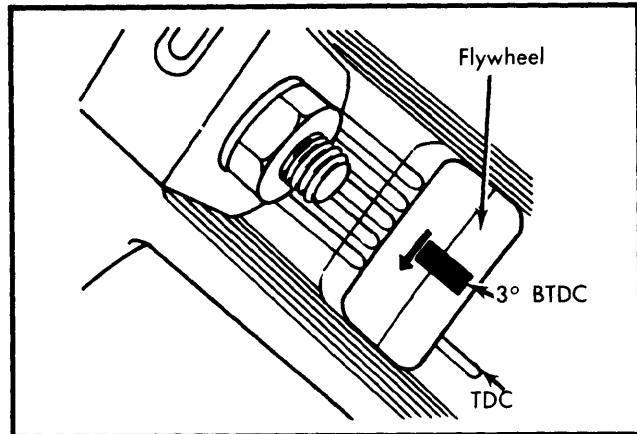


Fig. 2 Le Car Timing Mark Location

IDLE SPEED & MIXTURE

Federal — 1) Clamp, or disconnect and plug air pump hose to injection manifold. Connect tachometer.

2) Adjust idle speed screw to obtain 675-725 RPM idle. Remove cap and adjust fuel metering screw to obtain 0.5-2.0% CO level. Repeat procedure if necessary to have both speed and mixture correct.

3) Reconnect air injection. Idle speed must be 700-800 RPM. If not, adjust with idle speed screw. Remove test equipment.

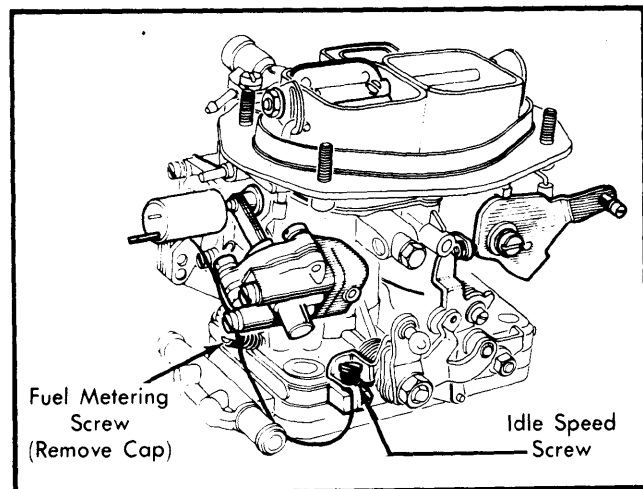


Fig. 3 Carburetor Adjustment Locations (Federal Models)

TUNE-UP (Cont.)

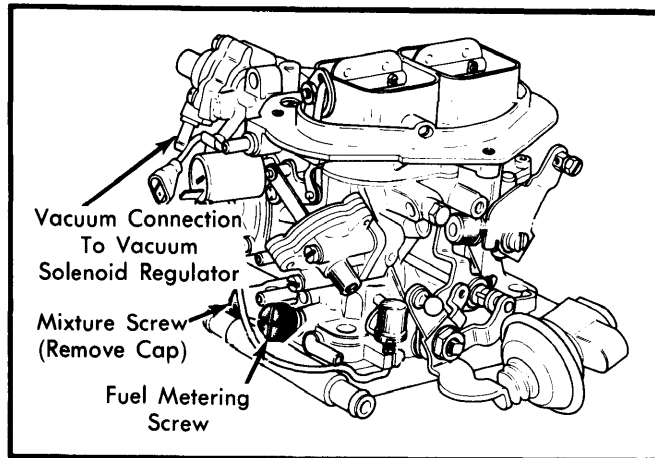


Fig. 4 Carburetor Adjustment Locations (Calif. Models)

California - 1) Start engine and bring to normal operating temperature. Stop engine and connect timing light. Using a "T" connector, connect accurate vacuum gauge to line between carburetor and vacuum solenoid regulator.

2) Start engine and adjust idle speed with fuel metering screw to 700-800 RPM. Vacuum gauge should indicate 1.5 ± 1.2 in. Hg.

3) If vacuum reading is not correct, remove brass cap from mixture screw. Adjust carefully until vacuum reading is within specifications. Remove test equipment.

Idle Speed & CO Level

Application	Idle RPM	CO%
Federal	700-800	①0.5-2.0
Calif.	700-800	②

- ① - Air injection disconnected.
- ② - CO% not measured.

FUEL PUMP PRESSURE

Pressure 2.5-4.0 (.18-28 kg/cm²)

EXHAUST EMISSION SYSTEMS

See *EXHAUST EMISSION SYSTEMS* section.

GENERAL SERVICING

IGNITION

DISTRIBUTOR

All models are equipped with Ducellier electronic distributors.

Other Data & Specifications - See *Tune-Up* article and appropriate article in *DISTRIBUTORS & IGNITION SYSTEMS* section.

IGNITION COIL

All models use an ignition coil which is mounted in an aluminum housing together with the electronic control module.

FUEL SYSTEMS

CARBURETORS

Application	Model
Federal	Weber 32 DIR 82
Calif.	Weber 32 DIR 80

Other Data & Specifications - See *Tune-Up* and *Weber Carburetors* in *FUEL SYSTEMS* Section.

ELECTRICAL

BATTERY

Battery Location - Battery is located in right front corner of engine compartment.

Application	Amp. Hr. Rating
Le Car	50

STARTER

All models are equipped with a Paris Rhone starter.

ALTERNATOR

All models are equipped with Paris Rhone alternators.

ALTERNATOR REGULATOR

All models are equipped with Paris Rhone alternator regulators.

BELT ADJUSTMENT

Tension With Strand Tension Gauge

Application	Lbs. (kg)
Alternator Belt	80-90 (36-41)
Air Pump Belt	75-80 (34-36)
A/C Compressor Belt	80 (36)

FILTERS

Filter	Service Interval (Miles)
Oil Filter	Replace every 6,250
Air Filter	Replace every 12,500
Air Pump Filter	Replace every 12,500

CAPACITIES

Application	Quantity
Crankcase (Includes Filter)	3.4 qts.
Cooling System (Includes Heater)	6.3 qts.
Manual Transaxle (SAE 80)	3.8 pts.
Fuel Tank	10.0 gals.