

TUNE-UP

ENGINE IDENTIFICATION

Engine is identified by the prefix of the engine identification number stamped on pad on right side of crankcase just below head and visible between two front legs of exhaust manifold.

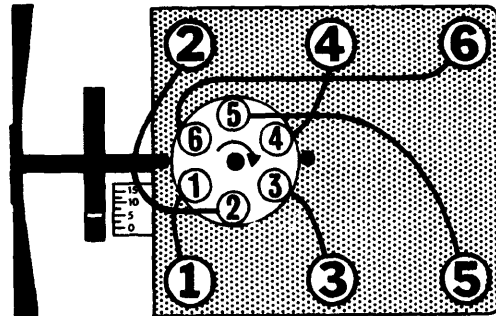
MODEL IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER

Vehicle identification number is stamped on metal plate located on dash under hood. It is on left side of CJ5, CJ5A, CJ6, CJ6A, DJ5 and DJ6 models. It is located on right side of all other models. Number is decoded as follows:

8105A1410001

- First & Second Digits - Chassis Code.
- Third & Fourth Digits - Body Style.
- Fifth Digit - Special Model Code.
- Sixth Digit - Drivers Side Code.
- Seventh Digit - Engine Code.
- Remaining Digits - Sequence Build Number.



1JE02

FIRING ORDER & TIMING MARKS

IGNITION TIMING

Ignition timing is set with engine at normal operating temperature and idle, and distributor vacuum advance disconnected and plugged. Timing is set at 0° TDC.

TUNE-UP NOTES

► **IDLE SPEED ADJUSTMENT CAUTION** - Procedures and specifications for idle speed adjustment must be followed exactly as outlined. See "Hot (Slow) Idle RPM" under Tune-Up.

NOTE - For other items affecting Tune-Up, see CARBURETION Section or EMISSION CONTROL Section.

HOT (SLOW) IDLE RPM

Set idle with all accessories OFF, engine at operating temperature, air cleaner removed, vacuum supply plugged and transmission in Neutral.

Idle Speed RPM

Application	RPM
All	650-700

COLD (FAST) IDLE RPM

Fast idle will be correct when curb idle is correctly set. No separate adjustment is required.

COMPRESSION PRESSURE

With spark plugs and air cleaner removed and throttle and choke valves wide open, crank engine through at least four compression strokes. Compression is considered satisfactory if lowest reading cylinder is within 75% of highest reading cylinder.

VALVE TAPPET CLEARANCE

Hydraulic Lifters Zero Lash

VALVE ARRANGEMENT

E-I-E-I-E (left bank, front to rear).
E-I-E-I-E (right bank, front to rear).

SPARK PLUGS

Gap035"
Torque..... 25-30 ft. lbs.

Spark Plug Type

All Champion UJ-12Y

DISTRIBUTOR

Point Gap..... 016"
Cam Angle..... 29°
Breaker Arm Spring Tension 17-22 ozs.
Condenser Capacity25-.28 mfd.

AUTOMATIC CHOKE SETTING

Set at index with engine running COLD.

FUEL PUMP PRESSURE & VOLUME

NOTE - Fuel pump equipped with vapor return line. This line should be squeezed off while testing pump.

Pressure..... 3.75 psi
Volume..... .5 pint in 20 strokes

EMISSION CONTROL

See appropriate article in EMISSION CONTROL Section.

1971 Jeep V6 Tune-Up

IGNITION

DISTRIBUTOR

Application	Prestolite No.
All	IAY-4502 A

Other Data & Specifications — See *Tune-Up and Prestolite Distributor* in *ELECTRICAL* Section.

IGNITION COIL

Resistance	Ohms @ 75°F
Primary (Prestolite Coil).....	4.25-4.60
Secondary (Prestolite Coil).....	5200-6100
Primary (Delco-Remy Coil).....	1.28-1.42
Secondary (Delco-Remy Coil).....	7200-9500
Ballast (Prestolite Coil Only).....	4.95-6.05

CARBURETION

CARBURETORS

Rochester Model 2G & 2GC 2-Bbl.

Application	Carb. No.
Man. Choke	7041185
Auto. Choke	7041186

Other Data & Specifications — See *Tune-Up and Rochester Carburetors* in *CARBURETION* Section.

THROTTLE LINKAGE ADJUSTMENT

Loosen locknut and adjust length of accelerator rod so carburetor throttle valve is fully open when accelerator treadle strikes toeboard.

ELECTRICAL

BATTERY

12 Volt — Negative Ground.

Application	Amp. Hr. Rating
Standard.....	50
Optional.....	70

STARTER

Application	Prestolite No.
All	MHA-7008

Other Data & Specifications — See *Prestolite Starters* in *ELECTRICAL* Section.

ALTERNATOR

Application	Amps	Motorola No.
Standard.....	35	A12NW528
Optional.....	40	A12NW554
Optional.....	55	A12NW602

Other Data & Specifications — See *Motorola Alternators* in *ELECTRICAL* Section.

ALTERNATOR REGULATOR

Application	Motorla No.
All	R-2K1

Other Data & Specifications — See *Motorola Alternator Regulators* in *ELECTRICAL* Section.

ENGINE

INTAKE MANIFOLD TIGHTENING

Manifold bolts should be tightened to 45-50 ft. lbs.

BELT ADJUSTMENT

Tension (Lbs.) Using Strand Tension Gauge

Application	New Belt	Used Belt.
Fan & Alternator	110-120.....	70-80
A.I.R. Pump.....	①	60

① Not Available.

FILTERS & CLEANERS

Filter or Cleaner	Service Interval (Miles)
Air Filter.....	Clean 6000
Oil Filter.....	Replace 2000

CAPACITIES

Application	Quantity
Cooling System (Includes Heater).....	10 qts.
Crankcase (Includes Filter).....	5 qts.
Transmissions	
3-Speed.....	2.5 pts.
4-Speed.....	6.5 pts.
Automatic.....	① 19 pts.
Transfer Case.....	3.25 pts.
Differential	2.5 pts.
Fuel Tank	
Jeep & Jeepster	16 gals.
Wagoneer	22 gals.
Gladiator	20 gals.
Auxiliary Tank (If Equipped).....	15 gals.

① — This is total capacity, oil change uses 7.5 pts.