

## TUNE-UP

### ENGINE IDENTIFICATION

Engine can be identified by prefix of Engine Identification Number stamped on right front face of crankcase, just below rocker arm cover.

### MODEL IDENTIFICATION

#### VEHICLE IDENTIFICATION NUMBER

Vehicle Identification Number is stamped on metal plate affixed to left side of firewall on CJ series vehicles, and affixed to left front lock pillar on all other models.

54 37 8 1 3 10001

**First & Second Digit** - Chassis Code.

**Third & Fourth Digits** - Body Style.

**Fifth Digit** - Special Equipment Code.

**Sixth Digit** - Drive Type.

**Seventh Digit** - Engine Code.

**Remaining Digits** - Sequence Build Number.

### 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.

### COMPRESSION PRESSURE

With engine at normal operating temperature, compression pressure is considered normal if lowest reading cylinder is within 75% of highest reading cylinder.

### VALVE TAPPET CLEARANCE

Hydraulic Lifters .....Zero Lash

### VALVE ARRANGEMENT

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

### SPARK PLUGS

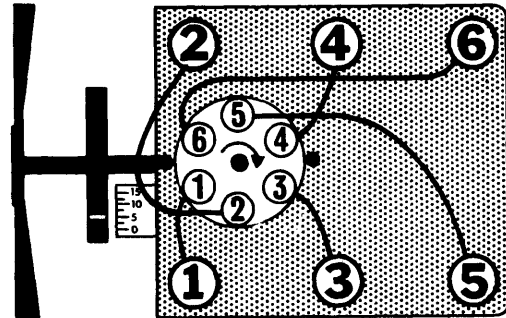
Gap ..... .035"  
Torque.....25-35 ft. lbs.

#### Spark Plug Type

<b>Application</b>	<b>Champion No.</b>
225" .....	J-12Y

### DISTRIBUTOR

Point Gap ..... .016"  
Cam Angle.....26-32°  
Breaker Arm Spring Tension ..... 17-22 ozs.  
Condenser Capacity .....25-.28 mfd.



9JE01

### FIRING ORDER & TIMING MARKS

#### IGNITION TIMING

With engine at normal operating temperature and vacuum line disconnected and plugged, set timing to specifications.

<b>Application</b>	<b>Timing</b>
225" .....	TDC

#### HOT (SLOW) IDLE RPM

With engine at normal operating temperature and headlights ON, adjust engine speed to specified RPM. Adjust idle mixture screws equally to obtain "lean best idle" setting at specified RPM.

#### Idle Speed RPM

<b>Application</b>	<b>RPM</b>
225" (W/Emission Control).....	650-700
225" (W/O Emission Control) .....	550

#### COLD (FAST) IDLE RPM

Fast idle will be correct when hot (slow) idle is correctly set. No separate adjustment is required.

#### FUEL PUMP PRESSURE & VOLUME

Pressure..... 3.0-3.75 psi  
Volume..... 5 pts. in 20 strokes.

#### EMISSION CONTROL

See appropriate article in EMISSION CONTROL Section.

## IGNITION

### DISTRIBUTOR

<b>Application</b>	<b>Prestolite No.</b>
225" .....	IAT-4502A

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

### IGNITION COIL

<b>Resistance</b>	<b>Ohms @ 75°F</b>
Primary .....	4.25-4.60
Secondary .....	5,200-6,100
Ballast Resistor.....	.495-.605

# 1969 Jeep V6 Tune-Up

## CARBURETION

### CARBURETORS

Rochester Models 2G & 2 GC 2 Bbl.

Application	Carb. No.
Man. Choke (W/O A.I.R.).....	7026082
Auto. Choke (W/O A.I.R.).....	7026089
Man. Choke (W/A.I.R.).....	7027082
Auto. Choke (W/A.I.R.).....	7027089

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

### THROTTLE LINKAGE ADJUSTMENT

Loosen lock nut and adjust length of accelerator rod so that carburetor throttle valve is wide open when accelerator pedal strikes toeboard.

### DASHPOT ADJUSTMENT

With throttle set in hot (slow) idle position, loosen dashpot lock nut and turn dashpot assembly until plunger contacts throttle lever without plunger being depressed. Turn dashpot 2½ turns toward throttle lever, depressing dashpot plunger. Tighten lock nut.

## ELECTRICAL

### BATTERY

12 Volt — Negative Ground.

Application	Amp. Hr. Rating
225".....	50

### STARTER

Application	Delco-Remy No.
225".....	1107391

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

### ALTERNATOR

Application	Amps.	Motorola No.
225".....	35	A12NW 528

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

### ALTERNATOR REGULATOR

Application	Motorola No.
225".....	R2K1

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

## ENGINE

### INTAKE MANIFOLD TIGHTENING

Tighten intake manifold bolts evenly to 20-35 ft. lbs.

#### BELT ADJUSTMENT

Tension (Lbs.) Using Strand Tension Gauge

Application	New Belt	Used Belt
All.....	110-120	70-80

#### FILTERS & CLEANERS

Filter or Cleaner	Service Interval (Miles)
Oil Filter.....	Replace 6,000
Air Filter	
Oil Bath.....	Clean 2,000
Dry Type.....	Replace 10,000

#### CAPACITIES

Application	Quantity
Cooling System (Includes Heater).....	10 qts.
Crankcase (Includes Filter).....	5 qts.
Transmissions	
3-Speed (T-96).....	3.5 pts.
3-Speed (T-90C).....	6.5 pts.
3-Speed (T-85).....	2.25 pts.
3-Speed (T-14A, T-15A).....	2.5 pts.
4-Speed (T-98A).....	6.75 pts.
4-Speed (T-18).....	6.5 pts.
Automatic.....	19 pts.
Transfer Case.....	3.5 pts.
Differential.....	Fill to bottom of filler plug hole.
Fuel Tank.....	15 gals.