

## 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 CJ5, CJ6, CJ5A and CJ6A models. It is affixed to right side of firewall on all other models.

54 5 4 8 13 10001

- First & Second Digits - Series Code.
- Third Digit - Body Style.
- Fourth Digit - Engine Type.
- Fifth Digit - Drive Type.
- Sixth & Seventh Digits - Special Equipment Code.
- Remaining Digit - 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).

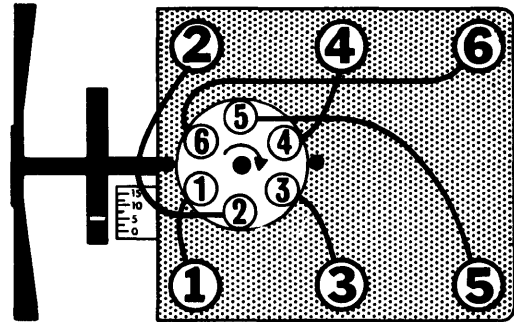
### SPARK PLUGS

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

Application	Spark Plug Type	Champion No.
225"		J-12Y

### DISTRIBUTOR

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



FIRING ORDER & TIMING MARKS

8JE01

### IGNITION TIMING

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

Application	Timing
225"	5° BTDC

### HOT (SLOW) IDLE RPM

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

Application	Idle Speed RPM	RPM
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

Application	Prestolite No.
225"	IAT-4501

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

### IGNITION COIL

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

# 1968 Jeep V6 Tune-Up

## CARBURETION

### CARBURETORS

Rochester Models 2G & 2GC 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 dashpot plunger contacts throttle lever without plunger being depressed. Turn dashpot assembly 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 25-35 ft. lbs.

### 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 (T14A, T15A).....	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.

### BELT ADJUSTMENT

Application	Tension (Lbs.) Using Strand Tension Gauge	
	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