

TUNE-UP

ENGINE IDENTIFICATION

Engine can be identified by number stamped on engine block 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 left side of firewall in engine compartment (Universal Jeep and Jeepster) and on left door hinge pillar post (Wagoneer and Gladiator).

8105A1710001

First & Second Digits - Chassis Code.

Third & Fourth Digits - Body Style.

Fifth Digit - Special Model Code.

Sixth Digit - Drive Code: 1 - LHD, 2 - RHD.

Seventh Digit - Engine Code.

Remaining Digits - Sequence Built 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 air cleaner removed and throttle and choke wide open, crank engine through at least four compression strokes. Compression pressure is satisfactory if lowest reading cylinder is more than 75% of highest reading cylinder.

VALVE TAPPET CLEARANCE

Hydraulic LiftersZero Lash.

VALVE ARRANGEMENT

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

SPARK PLUGS

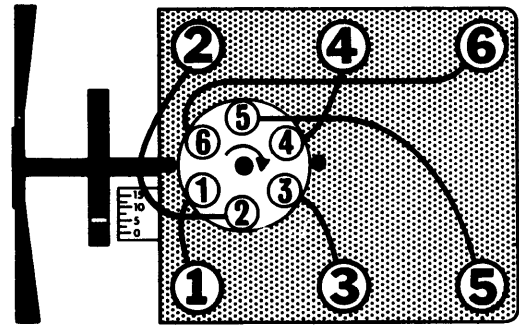
Gap035"
Torque.....25-35 ft. lbs.

Spark Plug Type

Application	AC No.	Champion No.
225"	44S	UJ12Y

DISTRIBUTOR

Point Gap
Prestolite Dist.016"
Delco-Remy Dist.016"
Cam Angle
Prestolite Dist. 29±3°
Delco-Remy Dist.29-31°
Breaker Arm Spring Tension
Prestolite Dist. 17-22 ozs.
Delco-Remy Dist. 19-23 ozs.
Condenser Capacity
Prestolite Dist.25-28 mfd.
Delco-Remy Dist. 18-23 mfd.



OJEA03

FIRING ORDER & TIMING MARKS

IGNITION TIMING

Ignition timing is checked or adjusted with engine at normal operating temperature, distributor vacuum hose disconnected and plugged and engine at normal idle. Set ignition timing to 0° TDC.

HOT (SLOW) IDLE RPM

Idle speed is checked or adjusted with transmission in Neutral, engine at normal operating temperature, choke valve fully open and headlights on. Set idle speed to 650-700 RPM, then adjust both idle mixture screws equally for smoothest idle. Recheck idle speed.

COLD (FAST) IDLE RPM

Will be correct when curb idle speed is correctly set. No separate adjustment is required.

AUTOMATIC CHOKE SETTING

With air cleaner removed, check that choke valve and rod move freely. Set at index.

1970 Jeep V6 Tune-Up

TUNE-UP (Cont.)

FUEL PUMP PRESSURE & VOLUME

Pressure (At Idle).....3¼ lbs. Min.
Volume (At Cranking Speed) ½ pint in 20 strokes

NOTE — These pumps have vapor return line and lower pressure should be obtained with the vapor return hose squeezed off. Minimum pressure should be 2 ½ lbs. with vapor hose open.

MANIFOLD HEAT CONTROL VALVE

Check valve for freedom of movement and lubricate with a suitable penetrating oil.

EMISSION CONTROL

See appropriate article in *EMISSION CONTROL* Section.

IGNITION

DISTRIBUTOR

Application	Prestolite Part No.
225"	1AT-4502A

Application	Delco-Remy Part No.
225"	1110376

Other Data & Specifications — See Tune-Up, Prestolite and Delco-Remy Distributors in ELECTRICAL Section.

IGNITION COIL

Application	Prestolite Part No.
225"	201700
Application	Delco-Remy Part No.
225"	1115247
Resistance	Ohms @ 75°F
Primary	
Prestolite Coil.....	4.25-4.60
Delco-Remy Coil.....	1.28-1.42
Secondary	
Prestolite Coil.....	5200-6100
Delco-Remy Coil.....	7200-9500
Ballast Resistor	
Prestolite Coil.....	4.95-6.05
Delco-Remy Coil.....	1.80

CARBURETION

CARBURETORS

Rochester Model 2GC

Application	Carb. No.
225"	7027089

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

ACCELERATOR LINKAGE ADJUSTMENT

Loosen locknuts and adjust length of accelerator cable so that carburetor throttle valve is wide open when accelerator pedal strikes toeboard.

DETENT SWITCH ADJUSTMENT

Turbo Hydra-Matic Trans. — The switch is mounted on a bracket at the carburetor and is actuated when the accelerator pedal is fully depressed. Adjustment is made by varying the length of the accelerator cable.

ELECTRICAL

BATTERY

12 Volt — Negative Ground.

Application	Amp. Hour Rating
225"	50

STARTER

Application	Delco-Remy Part No.
225"	1108366, 1108375

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

ELECTRICAL (Cont.)

ALTERNATOR

Application	Amps.	Motorola Part No.
225"	35	A12NW528

Other Data & Specifications - See Motorola Alternators in ELECTRICAL Section.

ALTERNATOR REGULATOR

Application	Motorola Part No.
225"	R-2K1

Other Data & Specifications - See Motorola Regulators in ELECTRICAL Section.

ENGINE

INTAKE MANIFOLD TIGHTENING

Tighten all bolts to 45-50 ft. lbs. in sequence shown in illustration.

BELT ADJUSTMENT

Tension (lbs.) Using Strand Tension Gauge

Application	New Belt	Used Belt
Alternator & Fan	110-120	70-80
Air Injection Pump		60

FILTERS & CLEANERS

Filter or Cleaner	Service Interval (Miles)
Oil Filter	At Oil Change
Air Cleaner	① Clean 6,000
PCV Valve	Clean 6,000
Fuel Filter	② Replace 12,000

① - Clean and refill to level with SAE 40 or 50 oil (above 32°F) or SAE 20 oil (below 32°F).

② - Located in the fuel line between the fuel pump and the carburetor.

CAPACITIES

Application	Quantity
Crankcase	
All	④ 4 qts.
Automatic Transmission	
Oil Change	7½ pts.
After Overhaul	19 pts.
Manual Transmission	
3-Speed	2½ pts.
4-Speed (Jeep & Jeepster)	6¾ pts.
4-Speed (Gladiator)	6½ pts.
Four-Wheel Drive Transfer Case	3¼ pts.
Rear Axle	
Jeep & Jeepster	2½ pts.
Wagoneer & Gladiator	3 pts.
Front Axle (Four-Wheel Drive)	
Except Gladiator	2½ pts.
Gladiator	3 pts.
Fuel Tank	
Jeep & Jeepster	10½ gals.
Wagoneer	18 gals.
Gladiator	20 gals.
Gladiator (Auxiliary)	15 gals.
Cooling System	
All	② 9 qts.
① - Add 1 quart with filter change.	
② - Add 1 quart with heater.	