

1970 Jeep V8 Tune-Up

TUNE-UP

ENGINE IDENTIFICATION

Engine can be identified by number stamped on engine block pad on left side of engine between first two spark plugs.

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).

8105A1910001

- 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 Lifters Zero Lash.

VALVE ARRANGEMENT

E-I-E-I-I-E-I-E (both banks, front to rear).

SPARK PLUGS

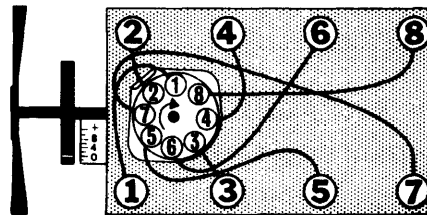
Gap030"
Torque 15 ft. lbs.

Spark Plug Type

Application AC No.
350" AC R-45TS

DISTRIBUTOR

Point Gap016"
Cam Angle 28-32°
Breaker Arm Spring Tension 19-23 ozs.
Condenser Capacity18-.23 mfd.



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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 5° BTDC.

HOT (SLOW) IDLE RPM

Idle speed is checked or adjusted with all lights and accessories "OFF", transmission in Neutral, engine at normal operating temperature, choke valve fully open and air cleaner in place. Set idle speed to 650-700 RPM, then adjust both idle mixture screws equally for maximum RPM. Continue to turn screws in until slight drop in RPM is noted. Readjust for correct idle speed.

COLD (FAST) IDLE RPM

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

TUNE-UP (Cont.)

AUTOMATIC CHOKE SETTING

With choke valve closed, connecting rod end should fit in gauging notch on side of choke lever. Bend rod at offset to adjust, then connect rod in lower hole of lever (7028088 Carb.), outer hole (7040482 Carb.).

FUEL PUMP PRESSURE & VOLUME

Pressure (At Idle)..... 5 1/2 -7 psi
 Volume..... 1 pint in 30 seconds at 600 RPM

NOTE — These pumps have a vapor return line and lower pressure should be obtained with the vapor return hose squeezed off.

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	Delco-Remy Part No.
350"	1111964

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

IGNITION COIL

Application	Delco-Remy Part No.
350".....	1115247
Resistance	Ohms @ 75°F
Primary	1.28-1.42
Secondary.....	7200-9500
Ballast Resistor.....	1.80

CARBURETION

CARBURETORS

Rochester Model 2GV

Application	Carb. No.
350"	7028088, 7040482

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

ACCELERATOR LINKAGE ADJUSTMENT

Adjust length of accelerator rod at threaded end so that carburetor throttle valve reaches wide open position when accelerator pedal is fully depressed and returns to curb idle position when pedal is released.

DETENT SWITCH ADJUSTMENT

Turbo Hydra-Matic Trans. — The switch is mounted on a bellcrank above the accelerator pedal and is actuated when the pedal is fully depressed. Adjustment is made by varying the length of the threaded rod.

ELECTRICAL

BATTERY

12 Volt — Negative Ground.

Application	Amp. Hour Rating
Except 3407Z19.....	60
3407Z19.....	70

STARTER

Application	Delco-Remy Part No.
350"	1108391

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

ALTERNATOR

Application	Amps.	Motorola Part No.
350"	35	A12NW528

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

ALTERNATOR REGULÀTOR

Application	Motorola Part No.
350"	R-2K1

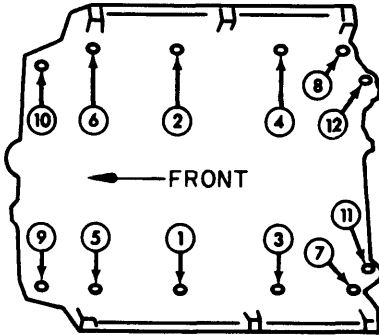
Other Data & Specifications — See Motorola Regulators in ELECTRICAL Section.

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ENGINE

INTAKE MANIFOLD TIGHTENING

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



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INTAKE MANIFOLD TIGHTENING SEQUENCE

BELT ADJUSTMENT

Tension (Lbs.) Using Strand Tension Gauge

Application	New Belt	Used Belt
Alternator & Fan	110-120	70-80

FILTERS & CLEANERS

Filter or Cleaner	Service Interval (Miles)
Oil Filter	At Oil Change
Air Cleaner	① Replace 24,000
Crankcase Ventilation Filter	② 6,000
PCV Valve	Replace 12,000
Fuel Filter	③ Replace 24,000

- ① - Clean and oil polyurethane wrap every 6,000 miles.
- ② - Located in air cleaner.
- ③ - Located in the fuel line between the fuel pump and the carburetor.

CAPACITIES

Application	Quantity
Crankcase	
All	① 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 14 qts.

- ① - Add 1 quart with filter change.
- ② - Add 1 quart with heater.