

TUNE-UP

ENGINE IDENTIFICATION

Engine Identification Number is stamped on block below number 1 spark plug. First three numerals designate engine cubic inch displacement.

Application	Numerals
225"	225

MODEL IDENTIFICATION

Number is located on left front door lock pillar.

A13AAOU100001

- First & Second Digits** - Model Code.
- Third Digit** - Body Type.
- Fourth Digit** - Gross Vehicle Weight.
- Fifth Digit** - Engine Type.
- Sixth Digit** - Model Year.
- Seventh Digit** - Plant.
- 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.

NOTE - For Tune-Up purposes only: Light Duty will refer to D100, W100, and "B" models except B300 Van, B300 Sportsman 15 passenger, CB300, MB300. Heavy Duty will refer to D200, D300, W200, W300, B300 Van, B300 Sportsman 15 passenger, CB300, MB300.

NOTE - Due to changes and corrections, always refer to Engine Tune-Up Decal in engine compartment before attempting tune-up. In the event of a conflict between specifications given in this manual and decal specifications, decal specifications prevail.

COMPRESSION PRESSURE

With engine warm, spark plugs removed, and throttle wide open, compression pressure be as specified. Maximum variation between cylinders should not exceed 25 psi.

Application	Minimum PSI
All	100

VALVE TAPPET CLEARANCE

Adjust valve tappet clearance by turning self-locking rocker arm screw.

Intake (Hot).....	.012"
Exhaust (Hot).....	.024"

VALVE ARRANGEMENT

E-I-E-I-E-I-E-I-E-I-E (front to rear.)

SPARK PLUGS

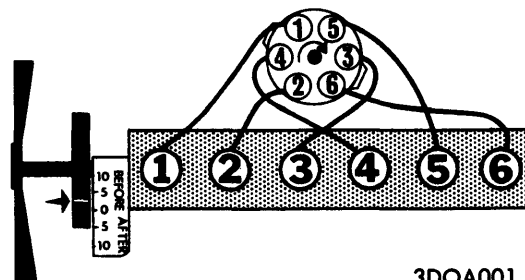
Gap035"
Torque.....	30 Ft. Lbs.

Spark Plug Type

Application	Champion No.
"B" Models	
Light Duty Man. Trans. & All Heavy Duty.....	N-11Y
Light Duty Auto. Trans.	N-13Y
"D", "W" Models	
Light Duty	N-14Y
Heavy Duty.....	N-13Y

DISTRIBUTOR

Point Gap.....	.017-.023"
Electronic Ignition Air Gap	
Go.....	.008"
No Go.....	.010"
Cam Angle.....	41-46°
Breaker Arm Spring Tension	17-20 ozs.
Condenser Capacity	25-.285 mfd.



FIRING ORDER & TIMING MARKS

IGNITION TIMING

Adjust timing with hot (slow) idle speed set, engine running at normal operating temperature, distributor vacuum advance line disconnected and plugged, and transmission in Neutral.

Application	ⓐTiming
"B" Models	
All (Exc. Light Duty Man. Trans.).....	TDC
Light Duty Man. Trans.	2.5° BTDC
"D", "W" Models	
All (Exc. Heavy Duty Calif.).....	TDC
Heavy Duty Calif.	2.5° ATDC

ⓐ - Tolerance, ±2.5°.

HOT (SLOW) IDLE RPM

NOTE - For carburetors equipped with curb idle solenoid, see Curb Idle Solenoid Adjustment for proper procedure.

With engine running at normal operating temperature, timing checked, air cleaner installed, air conditioning off, and transmission in Neutral, connect tachometer and insert probe of exhaust gas analyzer a minimum of two feet into tail pipe. Warm up and calibrate analyzer according to manufacturer's instructions and clamp hose between distributor vacuum control valve and intake manifold. Adjust idle mixture screw $\frac{1}{16}$ turn richer (out) and wait ten seconds before reading meter and, if necessary, adjust again until meter shows a definite increase in richness. Adjust idle mixture screw $\frac{1}{16}$ turn at a time to obtain 14.0 to 14.4 ("D", "W" Models) or 14.2 ("B" Models) air/fuel ratio, adjusting idle speed screw, if necessary, to maintain specified RPM. Remove clamp from distributor vacuum valve hose. If engine speed changes materially, check and set valve. See Distributor Vacuum Control Valve Adjustment.

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TUNE-UP (Cont.)

CURB IDLE SOLENOID ADJUSTMENT

With engine at normal operating temperature, turn curb idle solenoid adjusting screw in or out against solenoid plunger to secure specified hot (slow) idle speed. Adjust engine-off throttle stop screw (the screw closest to the solenoid adjusting screw) until it just touches stop, then back off one full turn. Test by disconnecting solenoid wire at connector. Engine speed should drop.

Application	Idle Speed	RPM
Holley Carburetors		750
Carter Carburetors		
W/O Air Pump (Fed.)		
"D", "W" Models		700
"B" Models		800
W/Air Pump		800

COLD (FAST) IDLE RPM

With engine at normal operating temperature, transmission in Neutral or Park, choke open, slow idle, timing, and distributor vacuum control valve checked, open throttle slightly and position fast idle speed adjusting screw on second highest step of fast idle cam. Start engine without touching throttle and wait for engine speed to stabilize. Adjust screw to obtain specified RPM. If more than one adjustment is necessary, move fast idle speed adjusting screw from fast idle cam and return to normal position, then position screw on second highest step of cam before making each subsequent adjustment.

Application	Fast Idle Speed	RPM
Man. Trans.		2000
Auto. Trans.		
Holley Carburetors		1700
Carter Carburetors		1800

AUTOMATIC CHOKE SETTING

Nonadjustable. Check for free movement on pivot by moving choke rod up and down. If unit binds, install new one.

IGNITION

DISTRIBUTOR

Chrysler Part No.

Application	Man. Trans.	Auto. Trans.
Breaker Point Ignition		
"B" Models	3656252	2656257
Electronic Ignition		
Light Duty	3755037	3755042
Heavy Duty	3755062	
Federal	3755062	3755071
Calif.	3755056	3755056

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

DISTRIBUTOR VACUUM CONTROL VALVE ADJUSTMENT

Move dashpot so that stem does not contact throttle. Connect tachometer, vacuum gauge (0-30 in. Hg), and remove distributor vacuum tube at distributor and clamp tube closed. Set timing and hot (slow) idle to specifications. Reconnect vacuum tube and run engine at 2000 RPM for five seconds in Neutral. When throttle is released, distributor vacuum should increase to over 16 in. Hg for a minimum of one second and fall below six in. Hg within three seconds. Remove vacuum control cover and turn adjusting screw for adjustment. Readjust dashpot. See *Dashpot Adjustment*. Recheck valve performance. If distributor vacuum does not fall below six in. Hg within four seconds after throttle is released, readjust or replace dashpot.

DASHPOT ADJUSTMENT

With hot (slow) idle speed set to specifications, position throttle lever so that tab on lever is just touching dashpot stem but not depressing it. The engine speed on "B" models should be 2300 RPM and on all others 2500 RPM. To adjust, screw dashpot in or out as required.

FUEL PUMP PRESSURE & VOLUME

Pressure (At Idle)	
Standard	3.5-5 psi
Optional (Electric)	4-4.75 psi
Volume (At Idle)	
Standard	1 qt. in 1 min.
Optional (Electric)	①
① — Not available.	

MANIFOLD HEAT CONTROL VALVE

Check valve for freedom of movement and lubricate with suitable solvent (Part No. 3419129) every 4,000 miles.

EMISSION CONTROL

See appropriate article in EMISSION CONTROL Section.

IGNITION COIL

Application	Chrysler Part No.
All	2444242
Resistance	Ohms @ 70-80°F
Primary	1.65-1.79
Secondary	9,400-11,700
Ballast Resistor	
Breaker Point Ignition	.5-.6
Electronic Ignition	
Coil Side	.5-.6
Control Unit Side	4.75-5.75

CARBURETION

CARBURETORS

Carter BBS Series 1-Bbl.

Carter Part No.

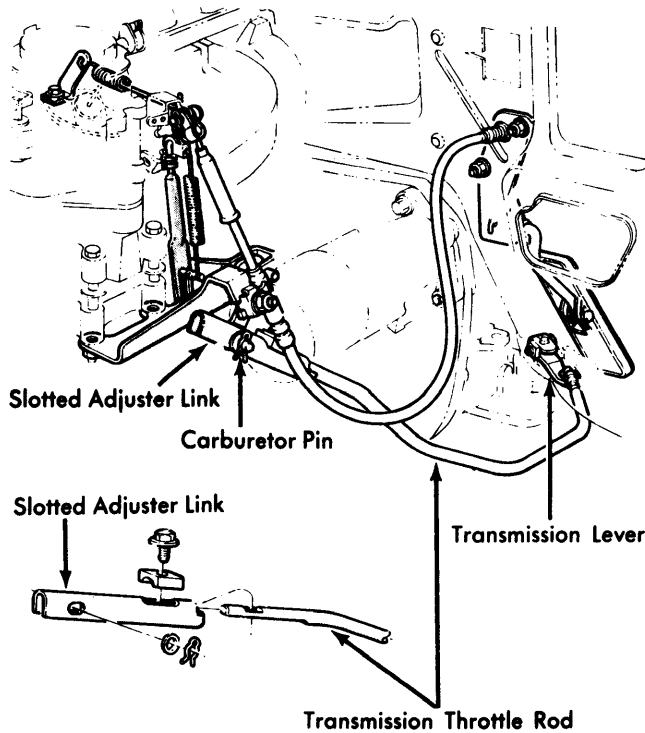
Application	Man. Trans.	Auto. Trans.
225" Federal.....	6219S.....	6218S
225" Calif.	6395S.....	6396S

Holley No. 1920 1-Bbl.

Holley Part No.

Application	Man. Trans.	Auto. Trans.
225" Federal.....	R-6593A.....	R-6394A
225" Calif.	R-6595A.....	R-6596A

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



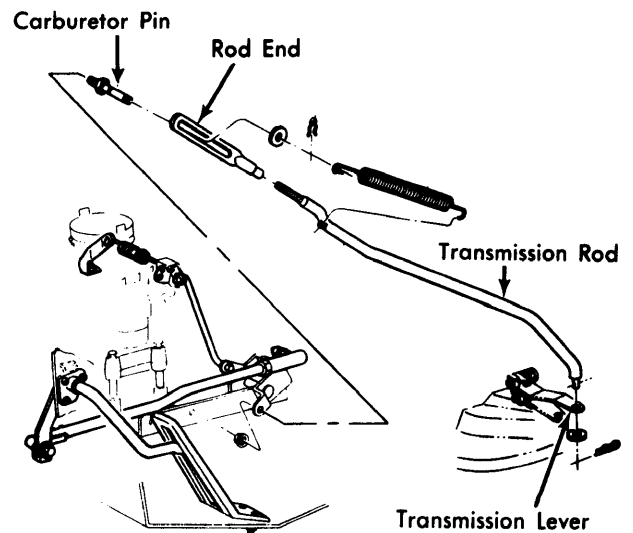
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ACCELERATOR AND DOWNSHIFT LINKAGE ADJUSTMENT (EXC. "B" MODELS)

ACCELERATOR AND DOWNSHIFT LINKAGE ADJUSTMENT

Auto. Trans. (Exc. "B" Models) — With linkage properly lubricated, disconnect choke or block choke valve in full open position and release fast idle cam. Have an assistant hold transmission throttle lever forward so that transmission lever is against its stop while adjustment is being made. Loosen slotted link lock bolt and pull forward on slotted adjuster link so that it contacts carburetor lever pin and all backlash is removed. Tighten bolt and release transmission rod. Move slotted adjuster link to the full rearward position and allow it to return slowly, making sure that it returns to the full forward position. Connect choke or remove blocking fixture.

Auto. Trans. "B" Models — Adjust hot (slow) idle speed to specifications. With linkage clean and properly lubricated, block choke in full open position and release fast idle cam. Remove return spring from carburetor pin and tab on throttle rod. Remove clip, washer and slotted throttle rod end from carburetor pin and rotate threaded rod end so that rear edge of slot contacts the carburetor pin when transmission throttle lever is held forward against its stop. Reassemble and check transmission linkage freedom by moving throttle rod rearward and allowing it to return slowly, making sure it returns to the full forward position. Remove block from choke and road test vehicle. If transmission does not downshift, lengthen throttle rod one turn and repeat road test.



3D0003

ACCELERATOR AND DOWNSHIFT LINKAGE ADJUSTMENT "B" MODELS

ELECTRICAL

BATTERY

12 Volt — Negative Ground.

Application	Capacity (Amps.)
Standard.....	48
Optional.....	59, 70

STARTER

Application	Chrysler Part No.
All.....	3656650

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

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ELECTRICAL (Cont.)

ALTERNATOR

Application	Amps.	Chrysler Part No.
Single Groove Pulley		
Standard.....	41.....	①
Optional.....	50.....	3438806
Optional.....	60.....	3438807
Double Groove Pulley		
Standard.....	41.....	①
Optional.....	50.....	3621853
Optional.....	60.....	3621861

① - Not available.

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

ALTERNATOR REGULATOR

Application	Chrysler Part No.
All	3438150

Other Data & Specifications - See Chrysler Alternator Regulators in ELECTRICAL Section.

ENGINE

INTAKE MANIFOLD TIGHTENING

Intake to exhaust manifold bolts are tightened to 20 ft. lbs.
Manifold to cylinder head stud nuts are tightened to 10 ft. lbs.

BELT ADJUSTMENT

Belt Tension Gauge Method Using Strand Tension Gauge

Application	New Belt	①Used Belt
All	120 lbs.	70 lbs.

① - Any belt operated for 15 minutes or longer.

CAPACITIES

(EXCEPT COOLING)

Application	Quantity
Crankcase	①5 qts.
Automatic Transmission	
All (Exc. "B" Models).....	19 pts.
"B" Models.....	18.5 pts.
Manual Transmissions	②
Front & Rear Axles & Transfer Case	②
Four Wheel Drive Knuckle Ends	②
Fuel Tank	
"D", "W" Models.....	23 gals.
"B" Models.....	25 gals.

① - Add 1 quart with filter change.
② - Fill to bottom of filler plug hole.

COOLING CAPACITIES

Application	Quantity W/Heater
"B" Models (Exc. CB300), D100, D200.....	①13 qts.
CB300, W100, W200.....	②13 qts.
D300, W300.....	14 qts.

① - Add 1 quart if equipped with Increased Cooling Package.
② - Add 1 quart if equipped with Increased Cooling Package and/or automatic transmission.

FILTERS & CLEANERS

Filter or Cleaner	Service Interval (Miles)
Oil Filter	Replace 8,000
Air Cleaner	
Oil Bath	①Clean 12,000
Paper Element.....	②Clean 8,000
Crankcase Inlet Air Cleaner	①Clean 12,000
Fuel Vapor Storage Canister Filter	Replace 12,000
Fuel Filter	
Paper Element.....	Replace 10,000
Disposable Canister	
All (Exc. "W" Models)	Replace 24,000
"W" Models	Replace 20,000
Distributor Wick.....	①Oil 18,000
Distributor Cam	Lubricate 12,000

① - Use SAE 30.
② - Replace at 24,000.