

1973 GMC 6 Tune-Up

TUNE-UP

ENGINE IDENTIFICATION

Engine Code Letters are suffix of Engine Identification Number. Number is stamped on pad located at right hand side of cylinder block next to distributor.

Application	Code
250" Man. Trans.	TAJ, TAT, TAX, TAY, TAM TBA, TBH, TBJ, TAB, TBM TAC, TAD, TAH, TAK, TAL
250" Auto. Trans.	TAA, TBL, TAJ, TAS, TAW TAR, TAZ, TBL, TBC
292" Man. Trans.	TRC, THC, THD, THL
292" Auto. Trans.	THA, THB, THH, THJ

MODEL IDENTIFICATION

VEHICLE IDENTIFICATION

A combination Vehicle Identification Number and Rating Plate is used on all vehicles. Plate is attached to toe and dash panel on all "P" models (except Motor Home) and on left hand door pillar on all remaining models. Plate location on Motor Home Chassis must be supplied by body builder.

TCQ133F100001

- First Digit - Make (GMC Division).
- Second Digit - Truck Type.
- Third Digit - Engine Designation.
- Fourth Digit - Truck Series.
- Fifth Digit - Model Type.
- Sixth Digit - Model Year 3 (1973).
- Seventh Digit - Assembly 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 - 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.

NOTE - For Tune-Up purposes only, Light Duty (L/D) will refer to all 1500 series, C-2500 Suburban, K-2500 Suburban, G-2500 and 3500 Rally Van. Heavy Duty (H/D) will refer to all remaining models.

COMPRESSION PRESSURE

With air cleaner removed and throttle and choke wide open, crank engine through at least four compression strokes. Compression should be 130 psi with a maximum variation of 20 psi between cylinders.

VALVE TAPPET CLEARANCE

Hydraulic Lifters One turn down from zero lash.

VALVE ARRANGEMENT

E-I-I-E-E-I-I-E-E-I-I-E

SPARK PLUGS

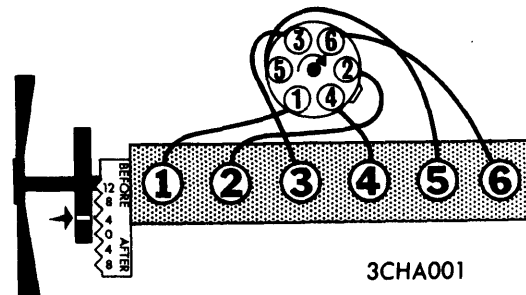
Gap035"
Torque..... 15 ft. lbs.

Spark Plug Type

Application	AC No.
250"	R46T
292"	R44T

DISTRIBUTOR

Point Gap
New019"
Used016"
Cam Angle..... 31-34°
Breaker Arm Spring Tension 19-23 ozs.
Condenser Capacity18-.23 mfd.



FIRING ORDER & TIMING MARKS

IGNITION TIMING

Ignition timing is checked or adjusted with engine at normal operating temperature, distributor vacuum line disconnected and plugged, manual transmission in Neutral, automatic transmission in "D" and engine at normal idle.

Ignition Timing Specifications

Application	Timing
250"	
Light Duty	6° BTDC
Heavy Duty	4° BTDC
292"	
Federal.....	4° BTDC
California.....	8° BTDC

HOT (SLOW) IDLE RPM

Idle speed is checked or adjusted with engine at normal operating temperature, air cleaner installed, choke valve open, distributor vacuum line disconnected and plugged, "Fuel

TUNE-UP (Cont.)

Tank" line to vapor canister disconnected (if equipped), air conditioning off, parking brake on, manual transmission in Neutral and automatic transmission in "P". Adjust idle speed solenoid to obtain specified RPM. **NOTE** — **DO NOT** turn CEC solenoid.

Application	Idle Speed (RPM)	
	Man. Trans.	Auto. Trans.
250"		
Light Duty	700	600
Heavy Duty	700	700
292"		
Federal	700	700
California	600	600

COLD (FAST) IDLE RPM

Fast idle is checked or adjusted with engine at normal operating temperature, choke valve open, transmission in Neutral and fast idle lever on highest step of fast idle cam. Bend fast idle lever to obtain an engine speed of 2400 RPM.

CHOKE ADJUSTMENT

With air cleaner removed, check that choke valve and rod move freely. Disconnect choke rod from choke lever and hold choke valve closed. With rod pushed down to bottom of travel, top of rod should be even with bottom of hole in choke lever. To adjust, bend rod at offset.

FUEL PUMP PRESSURE & VOLUME

Pressure (At Idle)..... 3.5-4.5 psi
Volume (At Cranking Speed)..... 1 pt. in 30-45 sec.

MANIFOLD HEAT CONTROL VALVE

Check valve for freedom of movement and lubricate with a suitable solvent (GM Manifold Heat Control Valve Solvent).

EMISSION CONTROL

See appropriate article in EMISSION CONTROL Section.

IGNITION

DISTRIBUTOR

Application	Delco Part No.
250"	
1500 Series, Exc. "G" Models.....	1110499
G-1500.....	1110500
2500 & 3500 Series, Exc. "G" Models.....	1110489
G-2500 & 3500.....	1110493
292"	
Federal.....	1110486
California.....	1110518

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

IGNITION COIL

Application	Delco Part No.
All	1115202
Resistance	Ohms @ 75°F
Primary	1.41-1.65
Secondary.....	3,000-20,000
Ballast Resistor Loom.....	1.8

CARBURETION

CARBURETORS

Application	Rochester Model MV 1-Bbl.	Carb. No.
250"		
Light Duty Man. Trans.		7043021
Light Duty Auto. Trans.		7043022
Heavy Duty All (Federal).....		7043025
Heavy Duty All (Calif.).....		⓪
292"		
2500 & 3500 Series (Federal).....		7043026
2500 & 3500 Series (Calif.).....		7043326

⓪ — Not applicable.

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

ACCELERATOR LINKAGE ADJUSTMENT

Throttle linkage is cable type and is nonadjustable. Inspect all components for wear or damage and replace as necessary.

DETENT CABLE ADJUSTMENT

Turbo Hydra-Matic 350 Trans. — Remove air cleaner and pry up on each side of snap lock to release it. Compress locking tabs and disconnect lock assembly from bracket. Position carburetor in wide open position and pull rearward on cable housing until internal stop on transmission is felt. With cable and throttle in this position, push snap lock on cable until it is flush with top. Install air cleaner.

DETENT SWITCH ADJUSTMENT

Turbo Hydra-Matic 400 Trans. — Adjustment is required only if switch is removed or replaced. Install switch and press plunger as far forward as possible. This will preset switch for adjustment. Switch will now adjust itself when accelerator pedal is depressed to wide open position.

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ELECTRICAL

BATTERY

12 Volt — Negative Ground.

Application	Delco Part No.	Cranking Power Watts @ 0°F
250" Standard.....	Y-86	2300
292" Standard.....	R-88	2900
All Optional.....	R-88W	3750

STARTER

Application	Delco Part No.
250"	
"G" Models.....	1108367
"G" Models W/Heavy Duty Clutch	1108520
C, K & P-1500 & 2500 Man. Trans.	1108480
C & K-1500 & 2500 Auto. Trans.	1108479
C, K & P-3500 All	1108480
292"	
P-3500 Man. Trans.	1108360
All Others	1108427

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

ALTERNATOR

Application	Amps.	Delco Part No.
250"		
Standard.....	37	1100497
Optional.....	42	1102346
Optional.....	61	1102347
292"		
Standard.....	42	1102349
Optional.....	61	1102350

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

ALTERNATOR REGULATOR

Delco — Nonadjustable, integral with alternator.

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

ENGINE

INTAKE MANIFOLD TIGHTENING

Tighten all outer bolts to 30 ft. lbs. then tighten center nuts to 30 ft. lbs.

FILTERS & CLEANERS

Filter or Cleaner	Service Interval (Miles)
Oil Filter.....	Replace 12,000
Air Cleaner	
Element Type	①Check 12,000
Oiled Element Type	Replace 12,000
Polyurethane Warp Type.....	Clean 24,000
Oil Bath Type	②Check 12,000
Crankcase Ventilation Filter.....	Replace 24,000
PCV Valve.....	Replace 24,000
TH-400 Sump Strainer.....	Replace 24,000
Fuel Filter	
Carburetor Inlet Type.....	Replace 12,000
In-Line Type	Replace 24,000
Distributor Cam Lubricator.....	Replace 24,000

- ① — Replace if dirty, do not clean. Rotate 180° at 12,000 miles and replace at 24,000 miles.
 ② — Check oil level and add SAE 50 oil if necessary.

BELT ADJUSTMENT

Tension (Lbs.) Using Strand Tension Gauge

Application	New Belt	Used Belt
Water Pump	125±5	75±5
Power Steering	125±5	75±5
Air Conditioning	140±5	90±5
A.I.R. Pump.....	125±5	75±5

COOLING CAPACITIES

Application	Quantity
250"	
"G" Models①	
Standard.....	12 qts.
H.D. Radiator	13 qts.
"C" & "K" Models	
Man. Trans.	12.2 qts.
Auto. Trans. & H.D. Radiator	12.5 qts.
P-1500.....	12 qts.
P-2500 & 3500.....	12.5 qts.
292"	
"C" & "K" Models	
Standard.....	12.6 qts.
H.D. Radiator	13.3 qts.
P-2500 & 3500.....	13.1 qts.

- ① — Add one quart if equipped with heater.

ENGINE (Cont.)

CAPACITIES (EXCEPT COOLING)	
Application	Quantity
Crankcase	
250".....	① 4 qts.
292".....	① 5 qts.
Auto. Trans.	
TH 350.....	10 qts.
TH 400.....	9.5 qts.
Man. Trans.	
3-Speed.....	3.5 pts.
4-Speed.....	7 pts.
Four-Wheel Drive	
Transfer Case	
Conventional.....	5 pts.
Full Time.....	8.25 pts.
Power Take-Off.....	1 pt.
Drive Axles.....	②
Fuel Tank	
"G" Models.....	21 gals.
"C" & "K" Models	
Suburban & Jimmy.....	21 gals.
Suburban & Jimmy (Optional).....	30 gals.
All Others Short W.B.	16 gals.
All Others Long W.B.	20 gals.
Auxiliary Tank (Left Side).....	20 gals.
P-1500.....	22 gals.
P-2500 & 3500.....	30 gals.
① — Add one quart with filter change.	
② — Fill to bottom of filler plug hole.	