

CHEVROLET 1937 SPECIFICATIONS

PREPARED BY
ENGINEERING DEPARTMENT
CHEVROLET DIVISION
GENERAL MOTORS CORPORATION
DETROIT, MICHIGAN

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CHEVROLET 1937 SPECIFICATIONS

Supersedes Sheet No. 2 Dated 11-18-36

SERIAL NUMBERS		PASSENGER CARS		TRUCKS	
		MASTER DELUXE	MASTER	HALF TON	1 1/2 TON
Designation Letters		GA	GB	GC	SA = 131-1/2" Single SB = 131-1/2" Dual @ SC = 157" Single SD = 157" Dual @
Vehicle Serial Numbers	Numbers	Each designation letter starts with 1001, and follows in numerical sequence at each Plant.			
	Location	On plate under hood on right side of cowl panel.			
Engine Serial Numbers	Numbers	#1 and up in numerical sequence.			
	Prefix	None		K	T
Trans. Serial Numbers	Location	Stamped on right side of engine case just in FRONT of fuel pump.			
	Chev.-Toledo			Prefix - TB	
Rear Axle Serial Numbers	Saginaw	Prefix - SA		Prefix - SM	
	Muncie Prod.	Prefix - MP		Prefix - M	
		Each prefix will start with 00001 & run up to 99999 when prefix will change to next alphabetical letter, as follows, SA to SB, MP to MR, etc.			
	Location	Stamped on milled surface on top of rear end of trans. case.			
Rear Axle Serial Numbers	Numbers	No mark	Prefix - C	Reg.-No mark Opt.prefix-F	Reg. prefix - TR Opt. prefix - HTR
		Numerical sequence #1001 and up			First axle-TR 18751
	Location	Stamped in casting on top forward end of differential carrier.			

@ - "Gross allowable weights" sheet #4.

PASSENGER CAR SYMBOLS	MASTER DELUXE (DMAS)	MASTER (MAS)
Chassis	PCH	PCH
Sedan	SED	SED
Club Sedan (Sport Sedan)	CSED	CSED
Coach	COA	COA
Town Sedan	TSED	TSED
Coupe 2 (Business Coupe)	CPE2	CPE2
Sport Coupe	SCPE	----
Cabriolet	----	CBL
Sedan Delivery	----	SDL

TRUCK AND BODY SYMBOLS	HALF TON	1 1/2 TON	
	112" WB	131-1/2" WB	157" WB
Chassis with cowl-single rear wheels	CCH	UCH	ULCH
-dual rear wheels	----	DCH	DLCH
Chassis with cab-single rear wheels	CCAB	UCAB	ULCA
-dual rear wheels	----	DCAB	DLCA
Chassis, cab and pickup body	CCBX	----	----
Two-unit open express body (Pickup)	PUB	UX	----
Pickup top used with pickup body	PUBT	----	----
Chassis with panel body	CPAN	UPAN	----
Panel body	CPN	UPN	----
Single unit express body (Canopy Express)	CXST	UXST	----
Closed suburban body (Carryall suburban)	CCS	----	----
Dual wheel chassis, cab and stake body	----	DST	DLST
Platform	----	UPLA	DPLA
Stake rack used with above platform	----	USTA	DSTA
Stock rack used with above platform	----	----	DSTO
Express platform body	----	----	DPLX
Express racks used with above platform	----	----	DSTX

REVISIONS: Engine Serial Number Location revised

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ENGINE PERFORMANCE		PASSENGER CARS		TRUCK	
				HALF TON	1 1/2 TON
Horse- Power	Rated (SAE)	29.4			
	Max. BHP (Adv.)	85 at 3200 RPM		78 @ 3200 RPM	
	Per cu.in. displacement	.393		.360	
Max. engine speed (adv.)		4000 RPM			
Max. torque (advertised)		170 ft.lbs.at 900 to 2000 RPM		170 ft.lbs. 850 to 1550	
Max. BMEP @ 60 F (Less accessories)				116 @ 800 RPM	
Compression Pressure	Nominal	152# @ 1000 RPM-159# @ 2000 RPM			
	At cranking RPM	112# @ 65 RPM			
Piston Displace- ment	Displacement	216.5 cu.in.			
	Per ton mile (cu.ft.)@	113	103.2	87.25	56
	Per vehicle mile (cu.ft.)@	197.0	174.2	191.9	212.5
	Gross weight for computations@	DMAS 3480#	MASTER 3370#	4400	7600
	Coach weight per cu.in.	16.08#	15.57#	- - -	- - -
Engine RPM per MPH		52.42	46.28	51.05	56.55
Engine revs. per mile in high gear		3145	2777	3063	3393
Piston travel per mile in high gear		1960 ft.	1735 ft.	1915 ft.	2115 ft.
Axle ratios for above computations		4.222	3.727	4.111*	5.428*
Tire size for above computations		6.00-16 - 4 ply			32 x 6 - 8 ply*
Engine and Power Plant Weights-Dry	Engine complete	557#		562#	566#
	Power plant complete (Eng., trans. and lever)	603.20#		611.26#	658.85#

@ Note - Passenger car weights are based on weight of Coach, Curb weight, plus 450# for Pass.

GENERAL

Type Valve-in-head*
Number of cylinders Six*
Cylinder arrangement .. In line cast-en-bloc*
Bore 3-1/2"
Stroke 3-3/4"
Compression ratio 6.25 : 1
Manifold heat control Thermostatic*

CYLINDER HEAD

Type Detachable*
Material Cast iron*
Combustion chamber design "Blue Flame"*

PISTONS

Type Slipper skirt, dome head
Material Cast iron-tin plated*
Length 4-1/64"
Pin center to top of head 2-15/64"
Distance between pin bosses 1-9/32"
Compression ring groove depth .. .150"-.162"
Clearance on dia.-Top land, 2nd land and 3rd.
land-.0145"-.019" cold

Clearance on dia.-skirt .. .0015"-.003" cold
Oil ring groove depth173"-.183"
Oil ring groove holes 5/32" drill, 14
holes equally spaced
Side wall thickness0395"-.049"
Head thickness165"-.167"
Piston pin bushings- Pressed in piston*
-material Bronze*
-O.D.983"-.984"
-length (each)... 15/16"*
-finish Diamond bore
-weight (each)045#
Piston wt. without bushings 1.42#
Total reciprocating weight:

Weight of piston, bushings, rings, pin and
connecting rod upper end x 6 14.16#

PISTON PINS

Diameter (Plated)8645"-.8650"
Length 3-3/32"
Taper and diameter limits0003"*
Weight (each)29#
Clearance in bushing Slip fit*

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PISTON RINGS	COMPRESSION	OIL CONTROL
Number and location	3 above piston pin*	
Material	Cast iron*	
Type	Plain*	Drilled or slotted*
Number	2*	1*
Arrangement	Upper two rings*	Under compression rings*
Width	.1235"-.1240"*	.1860"-.1865"*
Wall thickness	.155" max.	.155" max.
Gap clearance	.005"-.015"*	.005"-.015"*
Ring clearance in groove	.0015"-.003"*	.002"-.0035"
Weight (each)	.05 lbs.	.06 lbs.

CONNECTING RODS

Type	Pin clamped in rod*	Lower end brg. area-	
Material	Drop-forged carbon steel*	Projected	18.39 sq.in.
Length (center to center)	6-13/16"	Circumferential	57.7 sq.in.
Crank pin diameter	2.311"-2.312"	Shims-type	Solid*
Crank pin length	1.4985"-1.5015"*	-material	Brass
Width at piston pin	1-1/8"	Wt.conn.rod assy. (each)	1.77#
Lower end brg.-type	Centrifugally cast*	Upper end (each)	.4#
-diameter	2.3138"-2.3135"	Lower end (each)	1.37#
-length	1-5/16"	Total rotating weight (lower end x 6)	8.22#
-material	Babbitt*	Conn.rod assembly center of gravity:-	
-finish	Diamond bore	5.273" from wrist pin center	
-clearance on dia-.001"-.0025"		Conn.rod end play	.0065"-.0135"

VALVES		INLET	EXHAUST
Material		Extruded steel*	
Head diameter		1-41/64"*	1-15/32"*
Length		6.057" - 6.087"*	4.739" - 4.919"*
Stem	Diameter	.3407" - .3417"*	.3397" - .3407"*
	End style	Grooved for cup and cone*	
Spring	Valve closed	42 to 48 lbs.*	
Pressure	Valve open	94 to 102 lbs.*	
Lift		.305"	.3195"
Valve	Type	Removable*	
Stem	Diameter	.3427" - .3437"*	
Guide	Clearance with stem	.001" - .003"*	.002" - .004"*
Valve face angle		30° *	
Valve	Material	Cast iron*	
Seat	Cooling	Jets of water in cylinder head directed under pressure to valve seats.*	
Grinding tool clearance.		1-13/16" max.dia.cutter*	1-17/32" max.dia.cutter*

Supersedes Sheet No. 30 Dated 11-18-36

COOLING SYSTEM

(All models)

Capacity 14 quarts

WATER PUMP

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Type ..... Centrifugal*
Location ..... On front of engine*
Capacity ..... 47 gals. per min. @ 4000 RPM*
Impeller type ..... Vane*
Drive ..... By fan belt*
Shaft forward bushing-material ..... Copper-
graphite composition*
Bushing size .. .6145"-.6155" I.D. x 13/16"
Shaft rear bushing-material ..... Copper-
graphite composition*
Bushing size .. .6145"-.6155" I.D. x 23/32"
Packing-material ..... Impregnated duck
-adjustment ..... By spring tension
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RADIATOR CORE

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Make ..... Harrison*
Type ..... Ribbed cellular*
Material ..... All copper*
Size-Pass.cars .... DNAS-.222" x .556" x 2"
                      MASTER-.25" x .556" x 2"
  -Trucks ..... .25" x .560" x 2"
Exposed core area-Pass.cars ... 368.5 sq.in.
                      -Trucks ..... 405 sq.in.

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RADIATOR HOSE

Inlet hose-location From cylinder head
to core*

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Inlet hose -inside diameter ..... 1-1/4"*
            -length, passenger cars .. 5-5/8"
            -length, trucks ..... 6-1/4"
Outlet hose-type ..... Two pieces connected
                by steel tube*
            -location ... Core to water pump*
            -inside diameter ..... 1-1/2"*
            -length, upper hose ..... 2-3/4"
            -length, lower hose ..... 5"
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WATER THERMOSTAT

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Make ..... Harrison*
Type ..... Bellows operating poppet valve*
Valve starts to open at 140° - 145° F. water*
Valve fully open at 170° F. still water and
29.92" Hg. barometric pressure*
Location ..... In cylinder head outlet*

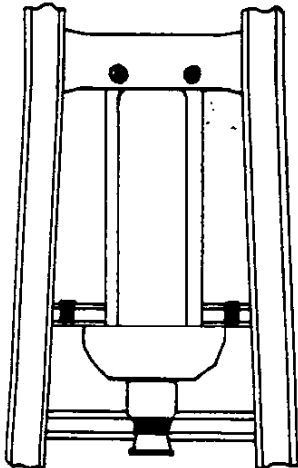
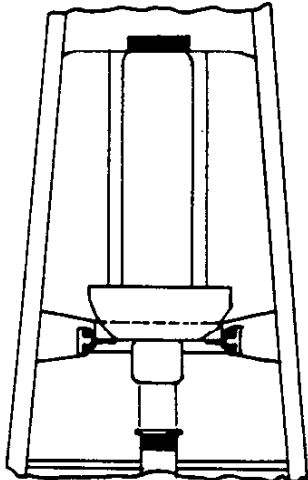
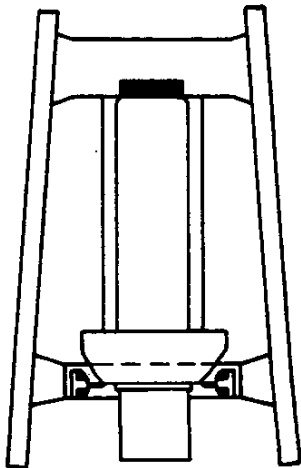
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ENGINE FAN

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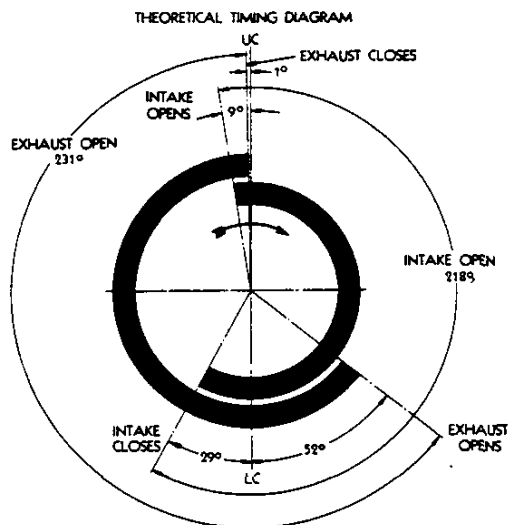
Number of blades ..... 4, staggered*
Diameter-Deluxe Master ..... 15-3/4"*
    -Trucks & Master pass. .... 16-1/4"*
Pulley-type ..... V*
    -angle of V ..... 28° *
    -diameter ..... 4-21/64"*
Ratio of fan to engine speed ..... 1.393*
Clearance between fan and core ..... 9-16"
Fan belt-make ..... Various*
    -material ..... One-piece vulcanized
                                fabric*
    -length around outside ..... 42-7/8"
    -maximum width ..... 11/16"*

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ENGINE MOUNTINGS CUSHION BALANCED RUBBER		
PASSENGER CARS 5 point	HALF TON TRUCK 4 point	1 1/2 TON TRUCK 3 point
		

REVISIONS: Radiator Core specifications revised

CHEVROLET 1937 SPECIFICATIONS



FUEL PUMP

Make AC*
Model AF
Type Mechanical*
Drive By camshaft*
Arm throw at camshaft 1/4"*
Inlet and outlet air dome Yes
Fuel filter Screen on dome*

FUEL GAUGE

Make AC*
Type Electric*

CARBURETOR

Make Carter*
Type Single adj. down-draft*
Model WI-346-S
Size 1-1/4"*
Accelerator pump Yes*
Float level When closed, top of
float measures 3/8" below finished
surface of cover.*

AIR CLEANER

Make AC*
Type Combined with silencer
and flame arrester.*

Fuel mixture heated Yes- Passes thru
manifold heat chamber, automatically con-
trolled by thermostat on manifold.*
Octane selector Yes*

EXHAUST SYSTEM	PASSENGER CARS	TRUCKS
Muffler Type	Diffusion & resonance (5-tube reverse flow)	Baffle*
Diameter	6-1/16"*	5"*
Length	18"	20-1/2"*
Mounting	Single pt. rubber*	Single pt.*
Exhaust Pipe Dia.	1-7/8"	
Tail Pipe Diameter	1-3/4"*	1-1/2"*

FUEL TANK	PASSENGER CARS	TRUCKS	
	CARS	1/2 TON	1 1/2 TON
Capacity (gallons)	14*	18	
Location	Bus. Coupe 18	Panel 16*	18
	At rear of chassis; in Bus. Coupe, underload- ing floor.	At center of chassis next to R.H. side rail.	Under seat*
Type	2 stamped pans welded together*		

ENGINE LUBRICATION

Type Pressure, pressure stream and splash*
Oil pump-type Gear
-drive From camshaft*
Main brg. lubrication Direct pressure*
Oil is pumped thru drilled passages in cylinder case directly to main bearings
Camshaft brg. lubrication ... Direct pressure thru passages from main bearings*
Timing gear lubrication Gravity feed from camshaft front bearing overflow.*
Connecting rod brg. lubrication .. By dippers at low speeds. By pressure streams at high*
Cylinder bore lubrication Splash*
Wrist pin lubrication Splash*
Valve rocker mechanism lubrication:-
Pressure. Oil pipe from low pressure side of oil distributor carries oil to valve rocker arms, springs, valve stems and upper ends of push rods*
Oil pressure gauge AC*
Oil cleaner type Screen with by-pass on intake side of oil pump*
Oil drain type Plug in side of oil pan*
Crankcase ventilator type Suction*
Oil filler Combined with ventilator*
Oil screen area 18.3 sq. in.
Oil level gauge type Rod*
Oil pan capacity (dry) 5-1/2 quarts*
-capacity (for refill) 5 quarts*

REVISIONS: