

AMA Specifications—Passenger Car

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MANUFACTURER	Chevrolet Motor Division General Motors Corporation	CAR NAME	Camaro
MAILING ADDRESS	Chevrolet Engineering Center 30003 Van Dyke, Warren, Michigan 48090	MODEL YEAR	1967
		ISSUED:	10-7-66
		REVISED (a)	

NOTES:

- The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
- UNLESS OTHERWISE INDICATED:
 - Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - Nominal design dimensions are used throughout these specifications.

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BODY—TYPES AND STYLE NAMES—

Body type, number of passenger & style names; use manufacturer's code for series & body style.

	250 Cu. In. 16-155 HP Optional (L22)	327 Cu. In. V8-275 HP Optional (L30)	350 Cu. In. V8-295 HP Optional (L46)
2-Door Sport Coupe, 4-Pass.	12337		12437
2-Door Convertible, 4-Pass.	12367		12467

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	12300 250 Cu. In. L-6 155 HP Opt (L22)	12400 327 Cu. In. V-8 275 HP Opt (L30)	350 Cu. In. V-8 295 HP Opt (L48)
Wheelbase (L101)			108.0		
Track	Front (W101)		59.0		
	Rear (W102)		58.9		
Maximum Overall Dimensions	Length (L103)		184.7		
	Width (W103)		72.5		
	Height (H101)		51.4		
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	Standard		
	Manual - 4 speed	15	Optional		
	Overdrive	15	Not available		
	Automatic	16	Powerglide		
Axle ratio (See page 4 for optional ratios)	Manual - 3 speed	17	3.08:1	3.31:1	
	Manual - 4 speed	17	3.08:1	3.31:1	
	Overdrive	17	Not available		
	Automatic	17	2.73:1	• 3.07:1	
Tire size		18	7.35x14	D70x14	
Engine	Type, no. cyl., valve arr.	3	In-line 6 OHV	90° V-8 OHV	
	Fuel system (Carb., other)	10	Carburetor		
	Bore and stroke	3	3.875x3.53	4.00x3.25	4.00x3.48
	Piston displ., cu. in.	3	250	327	350
	Std. compression ratio	3	8.5:1	10.0:1	10.25:1
	Max. bhp at engine rpm	3	155 @ 4200	275 @ 4800	295 @ 4800
	Max. torque at rpm	3	235 @ 1600	355 @ 3200	380 @ 3200

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GENERAL SPECIFICATIONS—DIMENSIONS

 (All dimensions in inches unless otherwise indicated)
 (Supplemental data available on request)

MODEL	SAE Ref. No.	12337	12367
		12437 Coupe	12467 Convertible

FRONT COMPARTMENT

Shoulder room	W3	56.7	
Hip room	W5	56.3	
Max. eff. leg room - accelerator	L34	42.5	
Effective head room	H61	37.1	37.5
H Point to Heel point	H30	7.6	

REAR COMPARTMENT

Shoulder room	W4	53.8	47.3
Hip room	W6	54.5	47.5
Minimum effective leg room	L51	29.9	29.6
Effective head room	H63	36.7	36.8

LUGGAGE COMPARTMENT

Usable luggage capacity	V1	8.3	5.6
Liftover height	H195	30.0	
Position of spare tire storage		Horz. over axle	Horz. right RR quarter
Method of holding lid open		Torsion bars	

STATION WAGON—THIRD SEAT

NOT AVAILABLE

Hip room	W86	----
Effective leg room	L86	----
Effective head room	H86	----
Seat facing direction		----

STATION WAGON—CARGO SPACE

NOT AVAILABLE

MODEL	SAE Ref. No.	----
Minimum distance between wheel houses at floor level	W201	----
Rear end opening width at belt	W204	----
Floor length from back of front seat at floor level to inside of closed tail gate	L202	----
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	----
Maximum height - floor covering to headlining at centerline of rear axle	H201	----
Maximum height of rear opening - tail and lift gates open	H202	----
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	----

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	12300			12400		
MODEL	250 Cu. In. L-6 155 HP Opt (L22)	327 Cu. In. V-8 275 HP Opt (L30)	350 Cu. In. V-8 295 HP Opt (L48)			

ENGINE—GENERAL

Type, no. cyls., valve arr.	In-line 6 OHV	90° OHV V-8	
Bore and stroke (nominal)	3.875x3.53	4.00x3.250	4.00x3.48
Piston displacement, cu. in.	250	327	350
Bore spacing (C/L to C/L)	4.40		
No. system	L. Bank	1-2-3-4-5-6	1-3-5-7
(front to rear)	R. Bank	In-line	2-4-6-8
Firing order	1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Compress. ratio (nominal)	8.5:1	10.0:1	10.25:1
Cylinder Head Material		Cast alloy iron	
Cylinder Block Material		Cast alloy iron	
Cylinder Sleeve-Wet, dry, none		None	
Number of mounting points	Front	Two	
	Rear	One	
Engine installation angle		3° 35'	
Taxable horsepower	2.5	36.0	51.2
Publishing max. bhp* @ eng. RPM	155 @ 4200	275 @ 4800	295 @ 4800
Publishing max. torque* (lb. ft. @ RPM)	235 @ 1600	355 @ 3200	380 @ 3200
Recommended fuel regular • premium	Regular	Premium	
Idle speed (spec. Manual neutral or drive)	Automatic	500 in neutral	500 in drive

ENGINE—PISTONS

Material	Cast aluminum alloy		
Description and finish	Flat head, notched; slipper skirt		
Weight (piston only) oz.	24.16	21.60	20.91
Clearance (limits)	Top land	.0345-.0435	.0365-.0455
	Skirt	Top	.0175-.0285
		Bottom	.0005-.0011 (a)
			.0005-.0011 (b)
			.0007-.0013 (c)
Ring groove depth	No. 1 ring	.2153-.2218	.2217-.2283
	No. 2 ring	.2153-.2218	.2217-.2283
	No. 3 ring	.2093-.2158	.2038-.2103
	No. 4 ring		

* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

- (a) Measured 2.44 from top of piston
- (b) Measured 2.24 from top of piston
- (c) Measured 1.56 from top of piston

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POWER TEAMS

(Indicate whether standard or optional)

"A" "B" "C" "D"

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO ** (Std. first) (Indicate A/C ratio)			
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM					
12300	250 (Opt)	1-Bbl Down- draft	8.5:1	155 @ 4200	235 @ 1600	3-Spd (2.85:1 low)	3.08	2.73	3.55	----
						4-Spd* (2.54:1 low)				
						Powerglide*	2.73(a)	----	3.55	----
						Air/Cond*all trans	3.08	----	3.55	----
12400	327 (Opt)	4-Bbl Down- draft	10.0:1	275 @ 4800	355 @ 3200	3-Spd (2.54:1 low)	3.08	2.73	3.55	----
						4-Spd* (2.54:1 low)				
						Powerglide*	2.73(a)	----	3.55	----
						Air/Cond*all trans	3.08	----	3.55	----
	350 (Opt)	4-Bbl Down- draft	10.25:1	295 @ 4800	380 @ 3200	3-Spd (2.54:1 low)	3.31	3.07	3.55	----
						3-Spd (2.41:1 low)	3.31	3.07	3.55	3.73
						4-Spd* (2.52:1 low)	3.31	3.07	3.55	4.10
										4.56
										4.88
						Powerglide •	3.07	2.73	3.31	3.55
										3.73
						Air Conditioning*	Available in same ratios as combinations shown in columns A, B & C only			

* - Optional

** - Positraction axle required for 4.10:1, 4.56:1 and 4.88:1; optional for all other ratios.

A - Standard

B - Economy - Optional

C - Performance - Optional

D - Special - Optional

(a) - 3.08 used with Rally Sport Option

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MODEL		250 Cu. In. L-6 155 HP Opt (L22)	327 Cu. In. V-8 275 HP Opt (L30)	350 Cu. In. V-8 295 HP Opt (L48)		

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression		
	No. 2, oil or comp.	Compression		
	No. 3, oil or comp.	Oil		
	No. 4, oil or comp.	None		
Compression	Description - material, coating, etc.	Upper Cast alloy iron-chrome plt on 250 & 327 cu in; moly inlay on 350 (a) Lower Cast alloy iron-wear resistant ctg. on 250 & 327; chrome plt on 350 (b)		
	Width	(c)	(d)	(e)
	Gap	.010-.020	(f)	(g)
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails-steel, chrome plated OD; Expander-stainless steel		
	Width	.1870-.1890 (assembled)		
	Gap	.015-.055		
	Expanders	In oil ring assembly		

ENGINE—PISTON PINS

Material		Chromium steel	
Length		2.990-3.010	
Diameter		.9270-.9273	
Type	Locked in rod, in piston, floating, etc.		Locked in rod
	Bushing	In rod or piston	None
	Material		None
Clearance	In piston	.00015-.00025	.00045-.00055
	In rod	None	
Direction & amount offset in piston		Major thrust side .060	

ENGINE—CONNECTING RODS

Material	Drop forged steel		
Weight (oz.)	12.50	14.56	12.91
Length (center to center)	5.699-5.701		5.695-5.705
Bearing	Material & Type	Copper lead alloy or sintered copper nickel	Premium aluminum
	Overall length	.807	
	Clearance (limits)	.0007-.0027	.0007-.0028
	End play	.009-.013	

- (a) Inside bevel, tapered face on 327Cu.In.; no bevel and barrel face on 250 and 350.
 (b) Inside bevel, tapered face; 327 Cu.In. is two piece - iron ring and steel expander.
 (c) .0628-.0633 upper; .0623-.0633 lower
 (d) .0775-.0780 upper; .0770-.0775 lower
 (e) .0770-.0775 upper; .0775-.0780 lower
 (f) .013-.023 upper; .013-.025 lower
 (g) .010-.020 upper; .013-.023 lower

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		12300		12400			
MODEL		250 Cu. In. L-6 155 HP Opt (L22)	327 Cu. In. V-8 275 HP Opt (L30)	350 Cu. In. V-8 295 HP Opt (L48)			

ENGINE—CRANKSHAFT

Material		Cast nodular iron		Forged steel		
Vibration damper type		Rubber mounted inertia				
End thrust taken by bearing (No.)		7		5		
Crankshaft end play		.002-.006				
Main bearing	Material & type		Steel, backed insert bearing material-copper lead alloy or premium aluminum - for intended engine operation and application			
	Clearance		.0003-.0029		(a)	
	Journal dia. and bearing overall length	No. 1	2.3004x.752	2.3003x.752	2.4502x.752	
		No. 2	2.3004x.752	2.3004x.752	2.4504x.752	
		No. 3	2.3004x.752	2.3004x.752	2.4504x.752	
		No. 4	2.3004x.752	2.3004x.752	2.4504x.752	
		No. 5	2.3004x.752	2.3009x1.177	2.4506x1.177	
		No. 6	2.3004x.752	None		
		No. 7	2.3004x.760	None		
Dir. & amt. cyl. offset		None				
Crankpin journal diameter		1.999-2.000		2.099-2.100		

ENGINE—CAMSHAFT

ENGINE-CAMSHAFT			
Location		Above and to right of crankshaft	In block above crankshaft
Material		Cast alloy iron	
Bearings	Material	Steel backed babbitt	
	Number	4	5
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		Steel sprocket
	Camshaft gear or sprocket material		Bakelite and fabric comp. with steel hub
	Timing chain	No. of links	• 46
		Width	• .740
		Pitch	.500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard	
Valve rotator, type (intake, exhaust)		None	
Rocker ratio		1.75:1	1.50:1
Operating tappet clearance (Indicate hot or cold)	Intake	Zero	
	Exhaust	Zero	
Timing marks on flywheel, damper, other		Torsional damper	

(Continued)

(a) #1-(.0008-.0020) #2, 3 & 4-(.0008-.0024) #5-(.0015-.0031)

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 MODEL 12300 12400
250 Cu. In. L-6 327 Cu. In. V-8 350 Cu. In. V-8
155 HP Opt (L22) 275 HP Opt (L30) 295 HP Opt (L48)

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	62°	38°
		Closes (°ABC)	94°	92°
		Duration-deg.	336°	310°
	Exhaust	Opens (°BBC)	92° 30'	88°
		Closes (°ATC)	63° 30'	52°
		Duration-deg.	336°	320°
Valve opening overlap		125° 30'	90°	
Intake	Material		Alloy steel	
	Overall length		4.902-4.922	4.870-4.889
	Actual overall head dia.		1.715-1.725	1.935-1.945
	Angle of seat & face		46° (seat) 45° (face)	
	Seat insert material		None	
	Stem diameter		.3410-.3417	
	Stem to guide clearance		.0010-.0027	
	Lift (@ zero lash)		.3880	.3900
	Outer spring press. and length	Valve closed (lb. @ in.)	56-64 @ 1.66	76-84 @ 1.70
		Valve open (lb. @ in.)	180-192 @ 1.27	194-206 @ 1.25
	Inner spring press. and length	Valve closed (lb. @ in.)	None	Spring damper
		Valve open (lb. @ in.)	None	Spring damper
Exhaust	Material		High alloy steel - aluminized face on 327 and 350 cu. in.	
	Overall length		4.913-4.933	
	Actual overall head dia.		1.495-1.505	
	Angle of seat & face		46° (seat) 45° (face)	
	Seat insert material		None	
	Stem diameter		.3410-.3417	
	Stem to guide clearance		.0010-.0027	
	Lift (@ zero lash)		.3880	.4100
	Outer spring press. and length	Valve closed (lb. @ in.)	56-64 @ 1.66	76-84 @ 1.70
		Valve open (lb. @ in.)	180-192 @ 1.27	194-206 @ 1.25
	Inner spring press. and length	Valve closed (lb. @ in.)	None	Spring damper
		Valve open (lb. @ in.)	None	Spring damper

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Nozzle
	Cylinder walls	Centrifugally oiled from camshaft bearing
Connecting rod brg. throwoff		Pressure jet cross sprayed

(Continued)

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MODEL 12300 12400
250 Cu. In. L-6 327 Cu. In. V-8 350 Cu. In. V-8
155 HP Opt (1.22) 275 HP Opt (1.30) 295 HP Opt (1.48)

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear	
Normal oil pressure (lb. @ engine rpm)	30-45 psi @ 1500 rpm	
Oil pressure sending unit (elect. or mech.)	Electric	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, partial, other)	Full flow	
Filter replacement (element, complete)	Complete	Element
Capacity of crankcase, less filter-refill (qt.)	4	
Oil grade recommended (SAE viscosity, and temperature range)	32° and above - SAE 20W, or SAE 10W-30 0°F to 32°F* - SAE 10W, or SAE 10W-30 Below 0°F - SAE 5W, or SAE 5W-20 *(SAE 5W-30 may be used at temperatures below freezing)	
Engine Service Requirement (MM, MS, etc.)	MS or DG	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single	Single w/crossover	Dual exhaust & resonators; single muffler
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, reverse flow		One, w/two resonators
Exhaust pipe dia. (O.D., wall thickness)	Branch frt. 2.00x.057-.071 rr. 2.00x.062-.076	Main frt. 2.00x.057-.071 rr. 2.25x.075-.091	frt. 2.25x.073-.091 rr. 2.25x.071-.091
Tail pipe diameter (O.D. & wall thickness)	1.875x.062-.076	2.00x.062-.076	2.00x.062-.076

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Ventilates to induction system	
	Optional	----	
Make and model		----	
Location		Top of rocker covl.	Rear of carburetor
Energy source (manifold vacuum, carburetor air stream, other)		Manifold vacuum	
Control method (variable orifice, fixed orifice, other)		Variable orifice	
Discharges (to intake manifold, carb. air intake, air cleaner intake, other)		Intake manifold	
Air inlet (breather cap, carburetor air cleaner, other)		Breather cap	
Flame arrestor (screen, check valve, other)		Check valve	

(a) Laminated

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MODEL 12300 12400
250 Cu. In. L-6 327 Cu. In. V-8 (L30) 350 Cu. In. V-8 (L48)
Man.trans | Auto Man.trans | Auto Man.trans | Auto

ENGINE—EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Air injection			
Air Injection Pump	Type	Semi-articulated vane type			
	Displacement	19.3 cubic inch			
	Drive ratio	1.25:1			
	Drive type	Crankshaft pulley			
	Relief valve (type)	Pressure (plate type)			
	Filter (describe)	None (clean air drawn from air cleaner)			
Air Injection System	Air distribution (head, manifold, etc.)	Head		Manifold	
	Point of entry	Exhaust ports			
	Injection tube I.D.	.2565			
	Check valve type	Pressure (plate type)			
	Backfire protection (type)	Vacuum actuated anti-backfire valve			
Carburetor	Make	Carter		Rochester	
	Model	3905975	3905976	7037213	7037212
	Barrel size	1.56		1.44 (primary and secondary)	
	Idle speed	Drive	500	600	500
	Neutral	700	---	700	---
Distributor	Aux. Adv. Systems (type)	None			
	Make	Delco-Remy			
	Model	1110351		1111150	
	Cent'gal adv. in crank degrees @ eng. rpm.	Start (rpm)	900	900	900
		Intermed. points deg. @ rpm	15 @ 1600	15 @ 2000	15 @ 1700
		Max. deg. @ rpm.	28 @ 2800	28 @ 4200	26 @ 4700
	Vacuum adv. in. crank degrees @ eng. rpm	Start (in. Hg)	6	8	10
		Intermed. points deg. @ in. Hg	None		
		Max. deg. @ in.	21 @ 14.5	15 @ 15.5	15 @ 17
		Vacuum Source	Carburetor		
Timing - Crank degrees @ rpm	4 BTDC @ Idle (a)		6 BTDC @ Idle (b)		
	4 BTDC @ Idle (c)				
Cooling System (describe changes)	195° thermostat on 327 and 350 cu. in. V-8				
Exhaust System (describe changes)	None				

- (a) 6°-11° BTDC when premium fuel is used with automatic transmission
 (b) 6° 10° BTDC when used with automatic transmission
 (c) 4° 10° BTDC when used with automatic transmission

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 155 HP Opt (L22) 275 HP Opt (L30) 295 HP Opt (L48)

MODEL _____

ENGINE—FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.

		Carburetor
Fuel Tank	Refill capacity (gals.)	18 (approximately)
	Filler location	Center of rear end panel
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Right side front of engine
	Pressure range	3.50-4.50 psi 5.25-6.50 psi
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Plastic mesh strainer in gasoline tank
	Locations	and sintered bronze filter in carburetor inlet (a)
Carburetor	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air cleaner type	Oil-wetted paper

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
12300	250	3-Speed 4-Speed	Rochester	7026027	One; single barrel down- draft	1.56
		Powerglide		7026028		
12400	327	3-Speed 4-Speed	Rochester	7027213	One; 4-barrel Quad- jet	1.38 pri 2.25 sec
		Powerglide		7027212		
	350	3-Speed HD 3-Speed 4-Speed	Rochester	7027213	One; 4-barrel Quad- jet	1.38 pri 2.25 sec
		Powerglide		7027212		
	(a) Paper filter with 327 & 350 Cu. In.					

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 MODEL 250 Cu. In. L-6 327 Cu. In. V-8 350 Cu. In. V-8
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ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure		
Radiator cap relief valve pressure		15 ± 1 psi		
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at (°F)	192°-198°	177°-183°	
Water pump	Type (centrifugal, other)	Centrifugal		
	GPM @ 1000 pump rpm	60 @ 4400	57 @ 4400	
	Number of pumps	One		
	Drive (V-belt, other)	V-belt		
	Bearing type	Permanently lubricated double row ball		
By-pass recirculation type (internal, external)		Internal		
Radiator core type (cellular, tube and fin, other)		Tube and center		
Cooling system capacity	With heater (qt.) ●	13	16	
	Without heater (qt.) ●	12	15	
	Opt. equipment-specify (qt.) ●	13	16	
Water jackets full length of cylinder (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Radiator hose	Lower	Number and type (molded, straight)	One, molded	
		Inside diameter	1.75	
	Upper	Number and type (molded, straight)	One, molded	
		Inside diameter	1.50	
	By-pass	Number and type (molded, straight)	None	
		Inside diameter	None	
	Fan	Number of blades & spacing	4-staggered	
		Diameter	17.62	
Ratio-fan to crankshaft rev.		.949:1		
Fan cutout type		None		
Bearing type		Double row ball		
*Drive belts (indicate belt used by letter)	Fan	A	D	D
	Generator or alternator	A	D	D
	Water Pump	A	D	D
	Power Steering	B	E	F
	Air Conditioning	C	G	G

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V				38°-42°							
Nominal length (SAE)	39.00	49.50	54.75	53.50	35.00	36.25	57.50				
Width				.380±.005							

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MAKE OF CAR Camaro MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED ¹⁻²⁷⁻⁶⁷
 MODEL 12300 12400
250 Cu. In. L-6 327 Cu. In. V-8 350 Cu. In. V-8
155 HP Opt (L22) 275 HP Opt (L30) 295 HP Opt (L48)

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco #1980032	Delco #1980030
	Voltage Rtg. & Total Plates	12 volts - 54 plates	12 volts - 66 plates
	SAE Designation & Amp Hr. Rtg.	45 amp/hr @ 20 hr rate	61 amp/hr @ 20 hr rate
	Location	Right side front engine compartment	
Generator or Alternator	Terminal grounded	Negative	
	Make	Delco-Remy	
	Model	#1100693	
	Type and rating	Diode rectified-37 amps	
	Output at engine idle (neutral)	13 amps	
Regulator	Ratio-Gen. to Cr/s rev.	2.46:1	
	Make	Delco-Remy	
	Model	#1119515	
	Type	Vibrator	
	Circuit relay	Closing voltage @ generator rpm	None
		Reverse current to open	None
	Regulated	Voltage	13.8-14.8 @ 85°F
		Current	----
	Voltage test conditions	Temperature	Operating
		Load	3-8 amps
		Other	None

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy	
	Model		1107399	1107496 1108338
	Rotation (drive end view)		Clockwise	
	Engine cranking speed		---	
	Test conditions		Engine at operating temperatures	
	No load test	Amps	58-87	65-100
		Volts	10.6	10.6
RPM (min)		8450-10700	3600-5100	
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure		3 and 4-Speed - Place gearshift lever in neutral, depress clutch to floor. Powerglide - Place control lever in N or P position. Initial Start - Depress accelerator pedal to floor, then release. Turn ignition to START and release as soon as engine starts.	

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR Camaro MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED ^(*)
 12300 12400
 250 Cu. In. L-6 327 Cu. In. V-8 350 Cu. In. V-8
 MODEL 155 HP Opt (L22) 275 HP Opt (I30) 295 HP Opt (L48)

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type			Positive shift solenoid
	Pinion meshes (front, rear)			Rear
	Number of teeth	Pinion		9
		Flywheel	Manual	153
			Auto.	153
	Flywheel tooth face width		Manual	.4010-.4130
			Auto.	.4010-.4130

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		Not available		
	Make		Delco-Remy		
	Model		#1115208		#1115039
	Amps	Engine stopped	4.0		
Engine idling		1.8			
Distributor	Make		Delco-Remy		
	Model		1110351	1111249	1111168
	Cent'gal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	900		
		Intermediate points deg. @ rpm.			
			15 @ 1600	11 @ 1500	15 @ 1700
		Max. deg. @ rpm.	26 @ 2800	26 @ 4100	26 @ 4700
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	6	8	10
		Intermediate points, deg. @ in. Hg.			
			None		
		Max. deg. in. Hg.	21 @ 14.5	15 @ 15.5	15 @ 17
	Breaker gap (in.)		.019		
	Cam angle (deg.)		31°-34°		28°-32°
	Breaker arm tension (oz.)		19-23 oz		
	Timing	Crankshaft deg. @ rpm.		4 BTDC @ 500	8 BTDC @ 500
Mark location		Torsional damper			
Spark Plug	Make		AC Spark Plug		
	Model		AC 46N (long reach)		AC 44
	Thread (mm)		14		
	Tightening torque (lb. ft.)		25		
	Gap		.033-.038		
Cable	Conductor type		Linen core impregnated with conducting material		
	Insulation type		Rubber with neoprene jacket		
	Spark plug protector		Neoprene		

AMA Specifications—Passenger Car

MAKE OF CAR Camaro MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED ⁽¹⁾
 MODEL 12300 250 Cu. In. L-6 327 Cu. In. V-8 350 Cu. In. V-8
155 HP Opt (L22) 275 HP Opt (L30) 295 HP Opt (L48)

ELECTRICAL—SUPPRESSION

Locations & type	Non-metallic high tension cables
------------------	----------------------------------

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speed-ometer	Make	AC
	Trip odometer (yes, no)	Not available
Charge indicator—type		Tell-tale
Temperature indicator—type		Tell-tale
Oil pressure indicator—type		Tell-tale
Fuel indicator—type		Electric gauge
Other		Refer to page 23
Windshield wiper	Make	Delco Products
	Type—Standard	Electric 2-speed
	Type—Optional	None
	Vacuum booster provision	None
Horn	Washer provision	Pushbutton—standard
	Type	Vibrator
	Number used	Two
	Amp draw (each)	(Low note) 4.5-6.5@12.5V. (Hi note) 4.2-6.2@12.5V.

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	3 and 4-speed	3 and 4-speed	3 and 4-speed
	Single dry disc	Single dry disc	semi-centrifugal
Type pressure plate springs	Diaphragm	Diaphragm-bent finger design	
Total spring load (lb.)	1650-1850	2100-2300	2300-2600
No. of clutch driven discs	One		
Clutch facing	Material	Woven asbestos	Premium grade-woven asbestos
	Outside & inside dia.	9.12 & 6.12	10.40 & 6.50 11.00 & 6.50
	Total eff. area (sq. in.)	71.82	103.53 123.70
	Thickness	.1350 each	
	Engagement cushioning method	Flat spring steel between facings	
Release bearing	Type & method of lubrication	Single row ball, packed and sealed	
Torsional damping	Methods: springs, friction material	Coil springs	

AMA Specifications—Passenger Car

MAKE OF CAR Camaro MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED ^(*)
 MODEL 12300 250 Cu. In. L-6 327 Cu. In. V-8 350 Cu. In. V-8
155 HP Opt (L22) 275 HP Opt (L30) 295 HP Opt (L48)

DRIVE UNITS—TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard-HD 3-speed optional with 350 cu. in.
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Powerglide-optional

DRIVE UNITS—MANUAL TRANSMISSION

DRIVE UNITS—MANUAL TRANSMISSION										HD	
Number of forward speeds		3-Spd	4-Spd	3-Spd	4-Spd	3-Spd	3-Spd	4-Spd			
		3	4	3	4	3	3	4			
Transmission ratios	In first	2.85:1	3.11:1	2.54:1	2.54:1	2.54:1	2.41:1	2.52:1			
	In second	1.68:1	2.20:1	1.50:1	1.80:1	1.50:1	1.57:1	1.88:1			
	In third	1.00:1	1.47:1	1.00:1	1.44:1	1.00:1	1.00:1	1.47:1			
	In fourth	----	1.00:1	----	1.00:1	----	----	1.00:1			
	In reverse	2.95:1	3.11:1	2.63:1	2.54:1	2.63:1	2.41:1	2.59:1			
Synchronous meshing, specify gears		All forward gears									
Shift lever location		3-Spd-column: HD 3-Spd and 4-Spd-floor									
Lubricant	Capacity (pt.)	3; 3.5 on heavy duty									
	Type recommended	Military Spec. MIL-L-2105B									
	SAE viscosity number	Summer	SAE 80								
		Winter	SAE 80								
		Extreme cold	SAE 80								

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Type (planetary or other)		
Manual lockout (yes, no)		
Downshift accelerator control (yes, no)		
Minimum cut-in speed		
Gear ratio		
Lubricant	Capacity (pt.) (Overdrive only)	Not available
	Separate filler (yes, no)	
	Type recommended	
	SAE viscosity number	Summer
	SAE viscosity number	Winter
	SAE viscosity number	Extreme cold

AMA Specifications—Passenger Car

MAKE OF CAR Camaro MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED ^(a)
 12300 12400
 MODEL 250 Cu. In. L-6 327 Cu. In. V-8 350 Cu. In. V-8
 155 HP Opt (L22) 275 HP Opt (L30) 295 HP Opt (L48)

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Powerglide		
Type describe	Torque converter with planetary gears		
Method of Selection (Lever, Push Button or other)	Steering column; floor mounted with console available optionally		
Selector Pattern	P-R-N-D-L		
List gear ratios Selector Pattern and indicate which are used in each selector position	Drive 1.82 and 1.00 Low & reverse 1.82	Drive 1.76 and 1.00 Low & reverse 1.76	
Max. upshift speeds—drive range	67	79	64
Max. kickdown speeds—drive range	62	74	61
Torque converter	Number of elements	3	
	Max. ratio at stall	2.40	2.10
	Type of cooling (air, liquid)	Water	
Lubricant	Capacity—refill (pt.)	6	
	Type recommended	A suffix A	
Special transmission features			

DRIVE UNITS—PROPELLER SHAFT

Number used	One		
Type (exposed, torque tube)	Tubular, exposed		
Outer diameter x length* x wall thickness	Manual 3-speed transmission	2.75x49.96x.065	
	Manual 4-speed transmission	2.75x49.96x.065	
	Overdrive transmission	Not available	
	Automatic transmission	2.75x49.96x.065	

* Center to center of universal joints, or to centerline of rear attachment.

(Continued)

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MAKE OF CAR	Camaro	MODEL YEAR	1967	DATE ISSUED	10-7-66	REVISED ^(a)	
		12300		12400			
MODEL		250 Cu. In. L-6 155 HP Opt (L22)	327 Cu. In. V-8 275 HP Opt (L30)	350 Cu. In. V-8 295 HP Opt (L48)			

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None	
	Lubrication (fitting, prepack)	----	
Universal joints	Make	Chevrolet	
	Number used	Two	
	Type (ball and trunnion, cross, other)	Cross	
	Bearing	Type (plain, anti-friction)	Anti-friction
		Lubric. (fitting, prepack)	Pre-pack
• Drive taken through (torque tube or arms, springs)		Mono-Leaf Rear Spring	(a) Mono-Leaf Rear Spring (b)
• Torque taken through (torque tube or arms, springs)		Mono-Leaf Rear Spring	(a) Mono-Leaf Rear Spring (b)

DRIVE UNITS—REAR AXLE

Description	Semi-floating, overhung pinion gear	
Limited Slip differential, type	Dual disc clutches	
Drive Pinion Offset	1.5	
No. of differential pinions	Two	
Ring gear O.D. (std. ratio)	8.125	8.875
Pinion adjustment (shim, other)	None	
Pinion bearing adj. (shim, other)	Shim	
Wheel bearing type	Single row cylindrical roller	
Lubricant	Capacity (pt.)	3.5 4.0
	Type recommended	Military Specs MIL-L-2105-B
	SAE viscosity number	Summer SAE 80
		Winter SAE 80
	Extreme cold	SAE 80

• REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio		2.73	3.08	3.55	3.07	3.31
No. of teeth	Pinion	15	12	11	14	13
	Ring gear	41	37	39	43	43
Axle ratio		3.73	4.10	4.56	4.88	
No. of teeth	Pinion	11	10	9	8	
	Ring gear	41	41	41	39	

(a) Radius rods are used with 4-speed transmissions.

(b) Drive and Torque taken through radius rod and Mono-Leaf rear springs.

AMA Specifications—Passenger Car

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MODEL 12300-12400

DRIVE UNITS—WHEELS

Type & material		Short spoke spider
Rim (size and flange type)	Std.	14 x 5J; SS350 14 x 6.0
	Opt.	14 x 6.0
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5 Hex nuts 7/16-20 UNF 2-B

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	7.35 x 14	SS 350, D70 x 14
	Type - Nylon, etc.	Original equipment	
Rev./mile at 50 mph.		791	815
Inflation press. (cold)	Front	24	24 (a)
	Rear	24	24 (a)
Optional tires - size and ply		D70 x 14	

BRAKES—SERVICE

		Standard	Metallic (Opt)	Front Disc (Opt)
Type (duo-servo, disc, balanced, etc.)		Duo-Servo 4-wheel hydraulic		Disc
Self adjusting (std., opt., N.A.)		Standard		
Hydraulic system type (single, dual, etc.)		Dual		
Power brake make & type (remote, integral, etc.)		Bendix Delco-Moraine vacuum power unit assists master cylinder; integral		
Effective area (sq. in.) *		168.9	118.1	114.0
Gross lining area (sq. in.) **		168.9	118.1	118.1
Swept drum area (sq. in.) ***		268.6		332.4
Percent brake effectiveness—front		62.3		58.9
Drum or Rotor	Diameter	Front	9.5	11.00
		Rear	9.5	
	Type and material	Composite; steel web, cast iron rim		
	Rotor (vented or solid)	Vented		
Wheel cyl- inder bore	No. pistons per caliper		4	
	Front	1.125		1.875
Master cylinder bore			.875	
Available pedal travel		1.00	.875	1.00
Line pressure at 100 lb. pedal load		6.5		7.2
Shoe clearance adjustment		790	1031	790
		Self-adjusting		

* Excludes rivet holes, grooves, chamfers, etc.

** Includes rivet holes, grooves, chamfers, etc.

*** Total swept area for four brakes:
Widest lining contact width for each brake x its drum circumference.

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• (a) Convertibles carry 26 psi front and rear.

AMA Specifications—Passenger Car

 MAKE OF CAR Camaro MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED ¹⁰¹ 1-27-67

 MODEL 12300-12400

BRAKES—SERVICE (cont.)

BRAKES—SERVICE (cont.)				Standard	• Metallic (Opt)	• Front Disc (Opt)
Brake lining	Drum or Disc			Drum		Disc
	Bonded or riveted			Bonded	Welded	Riveted
	Front Wheel	Material		Molded asbestos	Sintered iron	Molded asbestos
		Size (length x width x thickness)	Prim. or out-board	9.01x2.50x.17	1.64x2.50x.150	5.96x2.21x.41
			Second. or in-board	9.75x2.50x.20	1.64x2.50x.265	5.96x2.21x.41
		Segments per shoe		One	Pri 3, Sec 5	One
	Rear Wheel	Material		Molded asbestos	Sintered iron	Molded asbestos
		Size (length x width x thickness)	Prim. or out-board	9.01x2.00x.17	1.64x2.00x.150	9.01x2.00x.17
			Second. or in-board	9.75x2.00x.20	1.64x2.00x.265	9.75x2.00x.20
		Segments per shoe		One	Pri 3, Sec 5	One

BRAKES—PARKING

Type of control	Pulley-cable linkage-foot pedal apply-hand release
Location of control	Below instrument panel, left of steering column
Operates on	Rear service brakes
If separate from service brakes	Type (internal or external)
	Drum diameter
	Lining size (length x width x thickness)

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)	Combination body-frame integral with separate forward portion ladder frame
---	--

STEERING

Manual (std., opt., NA)			Standard-energy absorbing steering column		
Power (std., opt., NA)			Optional		
Adjustable steering wheel (tilt, swing, other)		Type and description	Tilt type		
		(std., opt., NA)	Optional		
Wheel diameter		Manual	16.25		
		Power	16.25		
Turning diameter	Outside front	Wall to wall (l. & r.)	39.7		
		Curb to curb (l. & r.)	37.0		
	Inside rear	Wall to wall (l. & r.)	20.6		
		Curb to curb (l. & r.)	21.1		
Outside wheel angle with inside wheel at 20°			18.5		
Manual	Gear	Type	Semi-reversible, recirculating ball nut		
		Make	Saginaw		
		Ratios ●	Gear	Std. 28:1	Fast 24:1
			Overall	Std. 28:1	Fast 21.6:1
	No. wheel turns		4.0 lock to lock		

(Continued)

AMA Specifications—Passenger Car

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MAKE OF CAR Camaro MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED ^(a)MODEL 12300-12400**STEERING (cont.)**

Power	Type (coaxial, linkage, etc.).		Coaxial
	Make		Saginaw
	Gear	Type	Same as manual
		Ratios	17.5:1
		Gear	Std. 17.5:1 Fast 15.6:1
	Overall		
	Pump driven by		Crankshaft pulley
Linkage	Number wheel turns		3.0 lock to lock
	Type		Parallelogram
	Location (front or rear of wheels, other)		Rear of wheels
	Drag link (trans. or longit.)		None
	Tie rods (one or two)		Two
Steering Axis	Inclination at camber (deg.)		8-1/4 to 9-1/4
	Bearings (type)	Upper	Ball stud with non-metallic bearing surface
		Lower	Ball stud with metallic bearing surface
		Thrust	None
Wheel Alignment (angle at curb weight and preferred)	Caster (deg.)		0 to P1
	Camber (deg.)		N1/4 to P3/4
	Toe-in (outside track inches)		1/8 to 1/4
	Steering spindle & joint type		Forging with pad for mounted brake cylinder-spherical
Wheel spindle	Diameter	Inner bearing	1.2493-1.2498
		Outer bearing	.7493-.7498
	Thread size		3/4-20 NEF-3 (Modified)
	Bearing type		Taper roller

AMA Specifications—Passenger Car

MAKE OF CAR Camaro MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED 1-27-67^(a)

MODEL 12300-12400

SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

Provision for car leveling	Front stabilizer bar
Provision for brake dip control	Front suspension geometry
Provision for acc. squat control	Rear suspension geometry
Special provisions for car jacking	Front: 3-3/4 in. inboard of bumper bolt Rear: 2-1/2 in. inboard of bumper bolt
Shock absorber front & rear	Type: Direct, double acting hydraulic Make: Delco Piston dia.: 1.00
Other special features	Single leaf rear springs

SUSPENSION—FRONT

250 Cu. In.

327 Cu. In.

350 Cu. In.

Type and description Independent: SLA type with coil spring and concentric shock absorber and spherically-joined steering knuckle for each wheel.

● Spring	Type	Coil, right hand helix	
	Material	Steel alloy	
	Size (coil design height & I.D.; bar length x dia.)	11.09x3.63 108.25x.604	11.09x3.63 121.79x.615
	Spring rate (lb. per in.)	345	320
	Rate at wheel (lb. per in.)	124	112
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	HR steel .6875	

SUSPENSION—REAR

Type and description Salisbury rear axle with two single leaf springs

● Drive and torque taken through	Rear springs (a)		(b)
	Single-leaf		
Spring	Material	Chrome carbon steel	
	Size (length x width, coil design height & I.D.; bar length & dia.)	56.0x2.25	
	Spring rate (lb. per in.)	115	125
	Rate at wheel (lb. per in.)	121	131
	Mounting insulation type	Rubber bushed at shackle and hanger	
	If leaf	No. of leaves	One
		Shackle (comp. extens.)	Compression
Stabilizer	Type (link, linkless, frameless)	None	
	Material	-----	
Track bar type		None	

- (a) 327 cu.in. RPO L30 V-8 engine with 4-speed transmission use radius rods.
- (b) Drive and torque is taken through radius rods and rear springs.

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MODEL 12337-12437 12367-12467

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	Not available
Type of finish (lacquer, enamel, other)		Acrylic lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle ident. No. location		Left front body hinge pillar
Engine No. location		6-Cyl-on crankcase RH side of engine, rear of distributor 8-Cyl-on top front of RH bank of cylinder and case
Theft protection - type		Shielded ignition lock terminals Key removable in "OFF" position
Vent window control method (crank, friction pivot)	Front	Friction pivot
	Rear	None
Seat cushion type	Front	Formed wire and foam pad
	Rear	Formed wire and cotton
	3rd seat	None
Seat back type	Front	Formed wire and foam pad
	Rear	Formed wire and cotton
	3rd seat	None
Windshield glass type (i.e., single curved - laminated plate)		Curved-laminated
Side glass type (i.e., curved - tempered plate)		Curved
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Curved Plastic
Windshield glass exposed surface area		1032.6 990.5
Side glass exposed surface area		1083.7 1093.8
Backlight glass exposed surface area		819.2 834.0
Total glass exposed surface area		2935.5 2918.3

• LAMP HEIGHT AND SPACING

		COUPE		CONVERTIBLE	
		Std.	Rally Sport	Std.	Rally Sport
Height above ground to center of bulb	Headlamp	Highest *	25.5		
		Lowest	----		
	Tail	Highest	24.3		
		Lowest	---- 24.3	----	24.3
Distance from C/L of car to center of bulb	Headlamp	Inside	----		
		Outside *	24.4		
	Tail	Inside	----		
		Outside	---- 20.0	----	20.0
	Directional	Front	17.0 23.6	17.0	23.6
		Rear	23.3		

* If single headlamps are used enter here.

AMA Specifications—Passenger Car

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MODEL 12337-12437 12367-12467

CONVENIENCE EQUIPMENT

(Indicate whether standard, optional or NA on each series)

Power windows	Side Windows	Optional	
	Vent Windows	Not available	
	Backlight or tailgate	Not available	
Power seats (specify type as well as availability)		Not available	
Reclining front seat back		Not available	
Front seat headrest		Optional	
Radios (specify type as well as availability)		Optional-AM-Manual, AM-Push-button, AM-FM Push-button	
Rear seat speaker		Optional	
Power Antenna		Not available	
Clock		Optional	
Air Conditioner (specify type and availability)		Optional - Four season and custom (recirculating)	
Speed warning device		Optional	
Speed control device		Optional	
Ignition lock lamp		Not available	
Back up lamp		Standard	
Dome lamp		Standard 123-12437	Not available
Glove compartment lamp		Optional	
Prkg. brake signal lamp		Standard	
Luggage compartment lamp		Optional	
Underhood lamp		Optional	
Courtesy lamp		Optional 123-12437	Standard 123-12467
Map lamp		Not available	
Auto. trans. quad. lamp		Standard	
Emergency flasher lamp, Four-way		Standard	
Cornering light lamp		Not available	
Freeway lane change signal		Standard	
Instrument panel pad		Standard	
Left hand outside mirror		Standard	
Padded sun shades		Standard	
Brake system warning and parking brake light		Standard	
Steering column energy absorbing		Standard	

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WEIGHTS

[illegible]

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Equipment Availability	22	Transmission - Types	1, 4, 10, 15, 16
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Height (Lamps)	14	Valves - Intake & Exhaust	6, 7
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Heights - Overall	1	Voltage Regulator	12
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