

AMA Specifications—Passenger Car

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MANUFACTURER CHECKER MOTORS CORPORATION	CAR NAME CHECKER TAXICAB CHECKER MARATHON 4-DOOR SEDAN
MAILING ADDRESS 2016 NORTH PITCHER ST., KALAMAZOO, MICHIGAN 49007	MODEL YEAR 1969
	ISSUED: 9-1-68 REVISED (●)

NOTES:

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

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BODY - TYPES AND STYLE NAMES - Body type, style names; use manufacturer's code for series & body style.

CHECKER TAXICAB

SERIES A-11D	4-DOOR SEDAN	6 OR 8 PASSENGER	120" W.B.
SERIES A-11ED	4-DOOR SEDAN	9 PASSENGER	129" W.B.

CHECKER MARATHON

SERIES A-12D	4-DOOR SEDAN	6 OR 8 PASSENGER	120" W.B.
SERIES A-12ED	4-DOOR SEDAN	9 PASSENGER	129" W.B.

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:

4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	A-11D, A-12D	A-11ED, A-12ED
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WIDTH

Track - Front	W101	63.64 (SEE NOTE "A")	
Track - Rear	W102	63.00 (SEE NOTE "A")	
Maximum overall car width	W103	76.00	
Body width at No. 2 pillar	W117	74.25	

LENGTH

Body "O" to front of dash	L 30	0	
Wheelbase	L101	120.00	129.00
Overall car length	L103	202.00	211.00
Overhang - front	L104	32.75	
Overhang - rear	L105	46.75	
Body upper structure length	L123	108.88	117.88
Body "O" line to $\text{\textcircled{C}}$ of rear wheel	L127	107.00	116.00
Body "O" line to w/s cowl point	L130	9.45	

HEIGHT

Passenger Distribution (front & rear)			
Trunk/Cargo load (lbs.)			
Overall height	H101	62.75	
Cowl height	H114	46.50	
Deck height	H138	46.50	
Rocker panel - front	To ground	9.50	
	From front wheel $\text{\textcircled{C}}$		
Rocker panel - rear	To ground	9.50	
	From rear wheel $\text{\textcircled{C}}$		
Windshield slope angle	H122	42°	

GROUND CLEARANCE

Bumper to ground - front	H102	13.50	
Bumper to ground - rear	H104	14.00	
Angle of approach	H106	23°	
Angle of departure	H107	14°	
Ramp breakover angle	H147	16°	14°
Min. running clearance (Specify)	H156	6.50 SUSPENSION FRAME CROSSTUBE	

NOTE "A" SPECIFICATIONS FOR EARLY 1969 CARS SAME AS 1968

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CAR AND BODY DIMENSIONS

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(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	A-11D, A-12D	A-11ED, A-12ED
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FRONT COMPARTMENT

Effective head room	H61	36.00	
Max. eff. leg room – accelerator	L34	36.00	
H Point to Heel point	H30	12.00	
H Point travel	L17	4.00	
Shoulder room	W 3	59.00	
Hip room	W 5	62.25	
Upper body opening to ground	H50	57.00	

REAR COMPARTMENT

H Point couple distance	L50	51.00	60.00
Effective head room	H63	35.75	
Min. effective leg room	L51	38.00	
H Point to Heel point	H31	13.50	
Min. knee room	L48	20.00	29.00
Rear Compartment room	L 3	45.00	53.00
Shoulder room	W 4	57.18	
Hip room	W 6	52.50	
Upper body opening to ground	H51	56.00	

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	12.20	
Liftover height	H195	28.00	
Position of spare tire storage		UP ON RIGHT SIDE WELL	
Method of holding lid open		SPRING	

STATION WAGON – THIRD SEAT

Shoulder Room	W85	N.A.	
Hip room	W86		
Effective leg room	L86		
Effective head room	H86		
Seat facing direction			

STATION WAGON – CARGO SPACE

Cargo length at floor – front seat	L202	N.A.	
Cargo length at belt – front seat	L204		
Cargo width – Wheelhouse	W201		
Opening width at belt	W204		
Maximum cargo height	H201		
Rear opening height	H202		
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2		

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A : C ratio)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		
A-11D, A-11ED	236	NONE-DIRECT INJ.	16:1	88 @ 2800	193 @ 1500	DUAL RANGE AUTOMATIC	3.31:1 STD. (POWR-LOK OPT.)

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ENGINE - GENERAL

Type, no. cyls., valve arr.	IN LINE, 4, OHV, DIESEL	
Bore and stroke (nominal)	3.875" x 5"	
Piston displacement, cu. in.	236	
Bore spacing (C to C)	1 & 2, 4-5/8:2 & 3, 4-7/8:3 & 4, 4-5/8	
No. system (front to rear)	L. Bank	1-2-3-4
	R. Bank	--IN LINE--
Firing order	1-3-4-2	
Compres. ratio (nominal)	16:1	
Cylinder Head Material	CAST ALLOY IRON	
Cylinder Block Material	CAST ALLOY IRON	
Cyl. Sleeve-Wet, dry, none	DRY, TRANSITION FIT	
Number of mtg. points	Front	TWO
	Rear	TWO
Engine installation angle	6°	
Taxable horsepower	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$	24
Publishing max. bhp* @ eng. RPM	88 @ 2800	
Publishing max. torque* (lb. ft. @ RPM)	193 @ 1500	
Recommended fuel regular - premium	NO. 2 DIESEL (NO. 1 DIESEL BELOW 10° F)	

ENGINE - PISTONS

Material	CAST ALUMINUM ALLOY	
Description and finish	TOROIDAL CAVITY IN CROWN	
Weight (piston only) oz.	2 LB. -- 9-1/8 OZ.	
Clearance (limits)	Top land	
	Skirt	Top
		Bottom
Ring groove depth	No. 1 ring	.0957 - .0967
	No. 2 ring	.0957 - .0967
	No. 3 ring	.0957 - .0967
	No. 4 ring	.2525 - .2535
	No. 5 ring	.2525 - .2535

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

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ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	COMPRESSION
	No. 2, oil or comp.	COMPRESSION
	No. 3, oil or comp.	COMPRESSION
	No. 4, oil or comp.	OIL
	No. 5	OIL
Compres- sion	Description - material, coating, etc.	CAST IRON: NO. 1 CHROME PARALLEL, NO. 2 & 3: INTERNALLY STEPPED
	Width	.0928" - .0938"
	Gap	.500"
Oil	Description - material, coating, etc.	NO. 4 & 5 MAXIGROOVE
	Width	.2525" - .2535"
	Gap	.500"
Expanders		IN OIL RING

ENGINE—PISTON PINS

Material	CHROMIUM STEEL		
Length	3.312" - 3.297"		
Diameter	1.3750" - 1.3748"		
Type	Locked in rod, in piston, floating, etc.	TRANSITION IN PISTON - LOCATED BY CIRCLIPS IN P.P. BOSS	
	Bush- ing	In rod or piston	ROD
		Material	STEEL BACKED LEAD BRONZE LINED
Clearance	In piston	TRANSITION	
	In rod	.001"	
Direction & amount offset in piston			

ENGINE—CONNECTING RODS

Material	DROP FORGED STEEL	
Weight (oz.)	67.0	
Length (center to center)	5.695" - 5.705"	
Bearing	Material & Type	STEEL BACKED ALUMINUM TIN FACED
	Overall length	1.245"
	Clearance (limits)	.0015" - .003"
	End play	

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ENGINE – CRANKSHAFT

Material		FORGED CHROME MOLYBDENUM STEEL	
Vibration damper type		NONE	
End thrust taken by bearing (No.)			
Crankshaft end play		.002 - .014	
Main bearing	Material & type	STEEL BACKED INSERT ALUMINUM TIN FACED	
	Clearance	.0025 - .0045	
	Journal dia. and bearing overall length	No. 1	3.0015 - 3.003 x 1.255
		No. 2	3.0015 - 3.003 x 1.255
		No. 3	3.001 - 3.0035 x 1.445
		No. 4	3.0015 - 3.003 x 1.255
		No. 5	3.0015 - 3.003 x 1.255
		No. 6	NONE
No. 7		NONE	
Dir. & amt. cyl. offset		NONE	
Crankpin journal diameter		2.499 - 2.4995	

ENGINE – CAMSHAFT

Location		IN BLOCK ABOVE CRANKSHAFT	
Material		CAST ALLOY IRON	
Bearings	Material	NONE	
	Number	NONE	
Type of Drive	Gear or chain		GEAR
	Crankshaft gear or sprocket material		STEEL
	Camshaft gear or sprocket material		STEEL
	Timing chain	No. of links	NONE
		Width	NONE
		Pitch	NONE

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		NA
Valve rotator, type (intake, exhaust)		NONE
Rocker ratio		
Operating tappet clearance (indicate hot or cold)	Intake	.010 HOT
	Exhaust	.010 HOT

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ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	13 ⁰	
		Closes (°ABC)	10 ⁰	
		Duration - deg.	203 ⁰	
	Exhaust	Opens (°BBC)	46 ⁰	
		Closes (°ATC)	10 ⁰	
		Duration - deg.	236 ⁰	
Valve opening overlap				
Intake	Material		ALLOY STEEL	
	Overall length		4.830" - 4.845"	
	Actual overall head dia.		1.746" - 1.742"	
	Angle of seat & face		45 ⁰	
	Seat insert material		NONE	
	Stem diameter		.3735" - .3725"	
	Stem to guide clearance		.0015" - .0035"	
	Lift (@ zero lash)		.3017"	
	Outer spring press. & length	Valve closed (lb.@ in.)	40.00 @ 1.78"	
		Valve open (lb.@ in.)		
	Inner spring press. & length	Valve closed (lb.@ in.)	15.4 @ 1.56"	
		Valve open (lb.@ in.)		
	Exhaust	Material		HIGH ALLOY STEEL
		Overall length		4.845" - 4.862"
Actual overall head dia.		1.442" - 1.438"		
Angle of seat & face		45 ⁰		
Seat insert material		NONE		
Stem diameter		.372" - .373"		
Stem to guide clearance		.002" - .004"		
Lift (@ zero lash)				
Outer spring press. & length		Valve closed (lb.@ in.)	40.00 @ 1.78"	
		Valve open (lb.@ in.)		
Inner spring press. & length		Valve closed (lb.@ in.)	15.4 @ 1.56"	
		Valve open (lb.@ in.)		

ENGINE – LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	PRESSURE
	Connecting rods	PRESSURE
	Piston pins	SPLASH
	Camshaft bearings	PRESSURE
	Tappets	SPLASH
	Timing gear or chain	PRESSURE
	Cylinder walls	SPLASH

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ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	ROTOR	
Normal oil pressure (lb. engine rpm)	40 - 60 PSI @ 2000	
Oil press. sending unit (elect. or mech.)	ELECTRIC	
Type oil intake (floating, stationary)	STATIONARY	
Oil filter system (full flow, part., other)	FULL FLOW	
Filter replacement (element, complete)	ELEMENT	
Capacity of c'case, less filter-refill (qt.)	5.5 QTS.	
Oil grade recommended (SAE viscosity and temperature range)	SAE 10 W	0° - 30° ABOVE
	SAE 20 OR 20W	30° - 80°
	SAE 30	ABOVE 80°
Engine Service Reqmt. (MM, MS, etc.)	MS	

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	SINGLE	
Muffler No. & type (reverse flow, straight thru, separate resonator)	ONE REVERSE FLOW	
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 x .057 - .069
	Main	2.00 x .057 - .069
Tail pipe dia. (O.D. & wall thickness)	2.00 x .049	

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	ROAD DRAFT TUBE VENTILATES TO ATMOSPHERE
	Optional	
Control Unit	Make and model	
	Location	
	Energy source (manifold vacuum, carburetor air stream, other)	
	Control method (variable orifice, fixed orifice, other)	
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	
	Air inlet (breather cap, carburetor air cleaner, other)	
	Flame arrestor (screen, check valve, other)	

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ENGINE – EXHAUST EMISSION CONTROL (DOES NOT APPLY)

Type (Air injection, engine modifications, other)			
Air Injection Pump	Type		
	Displacement		
	Drive ratio		
	Drive type		
	Relief valve (type)		
	Filter (describe)		
Air Injection System	Air distribution (head, manifold, etc.)		
	Point of entry		
	Injection tube I.D.		
	Check valve type		
Backfire protection (type)			
Carburetor	Make		
	Model		
	Barrel size		
	Idle speed	Drive Neutral	
	Idle A/F mixture		
Distributor	Aux. Adv. Systems (type)		
	Make		
	Model		
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	
		Intermed. points deg. @ rpm	
		Max. deg. @ rpm	
Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)		
	Intermed. points deg. @ in. Hg		
	Max. deg. @ in.		
Vacuum Source			
Timing - Crank degrees @ rpm			
Cooling System			
Exhaust System			

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

Induction type: Carburetor, fuel injection, supercharger.		FUEL INJECTION	
Fuel Tank	Refill capacity (U.S. gals.)	23 APPROX.	
	Filler location	REAR	
Fuel Pump	Type (elec. or mech.)	MECHANICAL	
	Locations	R.H. SIDE ENGINE	
	Pressure range	N.A.	
Vacuum booster (std., optional, none)		VACUUM PUMP (FOR POWER BRAKES) INDEPENDENT MTD. -STD.	
Fuel Filter	Type	REPLACEABLE PAPER ELEMENT	
	Locations	LH SIDE ENGINE	
	Choke type	N.A.	
	Intake manifold heat control (exhaust or water)	N.A.	
Carburetor	Air cleaner type	Standard	PAPER ELEMENT
		Optional	
	Idle speed (spec. neutral or drive)	Manual	
		Automatic	600 - 700 RPM TRANS. IN NEUTRAL
	Idle A/F mix.		

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
<u>DOES NOT APPLY</u>						

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ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		PRESSURE	
Radiator cap relief valve pressure		13 P.S.I.	
Circulation thermostat	Type (choke, bypass)	CHOKE	
	Starts to open at (°F)	168°	
Water pump	Type (centrifugal, other)	CENTRIFUGAL	
	GPM @ 1000 pump rpm	37 @ 2500	
	Number of pumps	ONE	
	Drive (V-belt, other)	V-BELT	
	Bearing type	PERMENTLY LUBRICATED BALL (2)	
By-pass recirculation type (inter., ext.)		INTERNAL	
Radiator core type (cellular, tube and fin, other)		TUBE AND FIN	
Cooling system capacity	With heater (qt.)	14.5	
	Without heater (qt.)	13.5	
	Opt. equipment-specify (qt.)	UNDERSEAT + 1 QT.	
Water jackets full length of cyl. (yes, no)		YES	
Water all around cylinder (yes, no)		N.A.	
Radiator hose	Lower	Number and type (molded, straight)	ONE-MOLDED
		Inside diameter	1.50"
	Upper	Number and type (molded, straight)	ONE-MOLDED
		Inside diameter	1.50"
	By-pass	Number and type (molded, straight)	NONE
		Inside diameter	--
Fan	Number of blades & spacing		6, EQUAL SPACED
	Diameter		17"
	Ratio-fan to crankshaft rev.		1.226:1
	Fan cutout type		NONE
	Bearing type		ON WATER PUMP
*Drive belts (indicate belt used by letter)	Fan		A
	Generator or alternator		A
	Water Pump		A
	Power Steering		B
	Air Conditioning		C

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	—	38°-42°	—								
Nominal length (SAE)	48.00	48.00	53.00								
Width	—	.500	—								

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ELECTRICAL — SUPPLY SYSTEM

Battery	Make and Model		WILLARD MODEL 30-H-95
	Voltage Rtg. & Total Plates		12 VOLT-104 PLATES
	SAE Designation & Amp. Hr. Rtg.		95 AMP HR.
	Location		L.H. SIDE TRUNK COMPARTMENT
	Terminal grounded		NEGATIVE
Generator or Alternator	Make		DELCO
	Model		1100842
	Type and rating		ALTERNATOR-DIODE RECTIFIED-42 AMP.
	Output at engine idle (neutral)		N.A.
	Ratio—Gen. to Cr/s rev.		2.46:1
Regulator	Make		DELCO-REMY
	Model		119513
	Type		DOUBLE CONTACT-VOLTAGE CONTROL
	Cutout relay	Closing voltage generator rpm	NONE
		Reverse current to open	NONE
	Regu- lated	Voltage	13.9-15
		Current	SELF REGULATING
	Voltage test conditions	Temperature	HOT
		Load	10 AMPS
		Other	--

ELECTRICAL — STARTING SYSTEM

Starting Motor	Make		DELCO-REMY
	Model		1113653
	Rotation (drive end view)		CLOCKWISE
Motor control	Switch (solenoid, manual)		SOLENOID
	Starting procedure		SEE NOTE "A" BELOW
Motor Drive	Engagement type		SOLENOID
	Pinion meshes (front, rear)		FRONT
	Number of teeth	Pinion	10
		Flywheel	Manual
	Flywheel tooth face width		Auto.
			Manual
	Auto.		.6875

NOTE "A"

1. PLACE TRANS. SELECTOR IN N OR P POSITION
2. PUSH ENGINE STOP CONTROL TO "RUN" POSITION-KNOB AGAINST INSTRUMENT PANEL
3. DEPRESS FLOOR MOUNTED INDUCTION HEATER SWITCH AND HOLD FOR FIFTEEN TO TWENTY SECONDS. (OMIT THIS STEP WITH WARM ENGINE)
4. DEPRESS ACCELERATOR FULLY, TURN KEY FULL RIGHT TO ACTIVATE STARTER. RELEASE KEY WHEN ENGINE STARTS.
5. IF ENGINE DOES NOT START WITHIN FIFTEEN SECONDS, RELEASE KEY AND DEPRESS INDUCTION HEATER SWITCH FOR TEN SECONDS AND REPEAT STEP #4.

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ELECTRICAL – IGNITION SYSTEM **DOES NOT APPLY**

Type	Conventional – Std., Opt., N.A.	
	Transistorized – Std., Opt., N.A.	
	Other (specify)	
Coil	Make	
	Model	
	Amps	Engine stopped Engine idling
Distributor	Make	
	Model	
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)
		Intermediate points deg.@rpm
		Max. deg.@rpm
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)
		Intermediate points, deg.@in. Hg.
		Max. deg. in. Hg.
	Breaker gap (in.)	
	Cam angle (deg.)	
Breaker arm tension (oz.)		
Timing	Crankshaft deg.@rpm	
	Mark location	
Spark Plug	Make	
	Model	
	Thread (mm)	
	Tightening torque (lb. ft.)	
Cable	Gap	
	Conductor type	
	Insulation type	
Spark plug protector		

ELECTRICAL – SUPPRESSION **DOES NOT APPLY**

Locations & type

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ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	MECHANICAL DRIVE - MAGNETIC DIAL
	Trip odometer (yes,no)	NO
Charge indicator - type		AMMETER
Temperature indicator - type		ELECTRICAL - C.V. (THERMAL) GAGE
Oil pressure indicator - type		ELECTRICAL - C.V. (THERMAL) GAGE
Fuel indicator - type		ELECTRICAL - C.V. (THERMAL) GAGE
Other		
Wind-shield wiper	Type - Standard	ELECTRIC TWO - SPEED
	Type - Optional	NONE
Wind-shield washer	Type - Standard	BUTTON CONTROLLED - ELECTRICAL
	Type - Optional	NONE
Horn	Type	ELECTROMAGNETIC - VIBRATOR
	Number used	2
	Amp draw (each)	10 AMP AT 12 VOLTS

DRIVE UNITS – CLUTCH (Manual Transmission)

N.A.

Make & type		
Type pressure plate springs		
Total spring load (lb.)		
No. of clutch driven discs		
Clutch facing	Material	
	Outside & inside dia.	
	Total eff. area (sq.in.)	
	Thickness	
	Engagement cushioning method	
Release bearing	Type & method of lubrication	
Torsional damping	Methods: springs, friction material	

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DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	N.A.
Manual 4-speed (std. or opt.)	N.A.
Manual with overdrive (std. or opt.)	N.A.
Automatic (std. or opt.)	STD.

DRIVE UNITS – MANUAL TRANS.

N.A.	
Number of forward speeds	
Transmission ratios	In first
	In second
	In third
	In fourth
	In reverse
Synchronous meshing, specify gears	
Shift lever location	
Lubricant	Capacity (pt.)
	Type recommended
	SAE viscosity number
	Summer Winter Extreme cold

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

N.A.	
Type (planetary or other)	
Manual lockout (yes, no)	
Downshift accelerator control (yes, no)	
Minimum cut-in speed	
Gear ratio	
Lubricant	Capacity (pt.) (Overdrive only)
	Separate filler (yes, no)
	Type recommended
	SAE viscosity number
	Summer Winter Extreme cold

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MAKE OF CAR CHECKER MODEL YEAR 1969 DATE ISSUED 9-1-68 REVISED (*)

MODEL A-11D, A-11ED, A-12D, A-12ED

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	WARNER GEAR MODELS DUAL RANGE																				
Type describe	TORQUE CONVERTER-PLANETARY																				
Selector location	STEERING COLUMNS LEVER AND LEGEND																				
List gear ratios Selector Pattern and indicate which are used in each selector position	<p style="margin: 0;">DUAL RANGE</p> <table style="margin: 0 auto; border: none;"> <tr> <td style="padding: 0 10px;">P</td> <td style="padding: 0 10px;">R</td> <td style="padding: 0 10px;">D2</td> <td style="padding: 0 10px;">D1</td> <td style="padding: 0 10px;">L</td> </tr> <tr> <td></td> <td style="text-align: center;">2.00:1</td> <td style="text-align: center;">1.47:1</td> <td style="text-align: center;">2.40:1</td> <td style="text-align: center;">2.40:1</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">1.00:1</td> <td style="text-align: center;">1.47:1</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">1.00:1</td> <td></td> </tr> </table>	P	R	D2	D1	L		2.00:1	1.47:1	2.40:1	2.40:1			1.00:1	1.47:1					1.00:1	
P	R	D2	D1	L																	
	2.00:1	1.47:1	2.40:1	2.40:1																	
		1.00:1	1.47:1																		
			1.00:1																		
Max. upshift speed—drive range	1-2 @ 42, 2-3 @ 65																				
Max. kickdown speed—drive range	3-2 @ 59, 2-1 @ 21																				
Torque convertor	Number of elements 3																				
	Max. ratio at stall 2.1:1																				
Type of cooling (air, liquid)	AIR CIRCULATED PLUS COOLER IN RADIATOR BOTTOM TANK																				
Lubricant	Nominal diameter 12																				
	Capacity—refill (pt.) 19																				
Special transmission features	Type "A" AUTO. TRANS. FLUID SUFFIX "A"																				

DRIVE UNITS – PROPELLER SHAFT

	120" W.B.	129" W.B.
Number used	ONE	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	STRAIGHT TUBE-EXPOSED	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	N.A.
	Manual 4-speed trans.	N.A.
	Overdrive transmission	N.A.
	Automatic transmission	3.00 x 58.25 x .065

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

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CHECKER MODEL YEAR 1969 DATE ISSUED 9-1-68 REVISED (*)

MODEL A-11D, A-11ED, A-12D, A-12ED

DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	NONE
	Lubrication (fitting, prepack)	NONE
Slip Yoke	Type	INVOLUTE INTERNAL SPLINE
	Number of teeth	28
	Spline O.D.	1.200
Universal joints	Make and Mfg. No.	SPICER - 1310
	Number used	TWO
	Type (ball and trunion, cross)	CROSS
	Rear attach. (u-bolt, clamp, etc.)	U-BOLT
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		FITTING
Drive taken through (torque tube or arms, springs)		SPRINGS
Torque taken through (torque tube or arms, springs)		SPRINGS

DRIVE UNITS – AXLE

Type (front, rear)	REAR		
Description	SEMI-FLOATING DANA MODEL 44 POWR-LOK DISC CLUTCHES - OPTIONAL		
Limited Slip differential, type			
Drive Pinion Offset	1.50		
No. of differential pinions	TWO, EXCEPT POWR-LOK-FOUR		
Pinion adjustment (shim, other)	SHIM		
Pinion bearing adj. (shim, other)	SHIM		
Wheel bearing type	TAPERED ROLLER BEARING		
Lubricant	Capacity (pt.)	3	
	Type recommended	HYPOID GEAR OIL	
	SAE viscosity number	Summer	SAE 90
		Winter	SAE 90
		Extreme cold	SAE 90

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio	3.31:1	
No. of teeth	Pinion	13
	Ring gear	43
Ring Gear O.D.	8.50	

AMA Specifications—Passenger Car

MAKE OF CAR CHECKER MODEL YEAR 1969 DATE ISSUED 9-1-68 REVISED ^(a)

MODEL A-11D, A-11ED, A-12D, A-12ED

DRIVE UNITS – WHEELS

Type & material		DISC STEEL	
Rim (size & flange type)	Std.	15 x 6 JK	
	Opt.	NONE	
Attachment	Type (bolt or stud)	STUD	
	Circle diameter	4.5" PRIOR TO APPROX. 1-1-69; 5.00" AFTER APPROX. 1-1-69	
	Number and size	5-1/2-20 THD	

MODEL _____

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		8.15 x 15 4 PLY/8 P.R. BLACK
	Type (bias, radial, etc.)		BIAS
	Full rated Inflation Press.	Front	30
		Rear	30
Rev./Mile at 50 MPH		753	
Optional	Size, ply rating, & ply		8.15 x 15 4-PLY/8 P.R. WHITE

BRAKES – PARKING

Type of control		PEDAL APPLIED-MANUAL RELEASE
Location of control		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)	

AMA Specifications—Passenger Car

MAKE OF CAR _____ CHECKER _____ MODEL YEAR 1969 DATE ISSUED 9-1-68 REVISED (a)

MODEL _____ A-11D, A-11ED, A-12D, A-12ED

BRAKES—SERVICE (ALSO SEE NOTE)			STANDARD DRUM TYPE	OPT. FRT. DISC-REAR DRUM	
Type (drum) or (disc & no. of pistons)			DRUM	DISC-SINGLE PISTON(FRT)DRUM(RR)	
Self adjusting (std., opt., N.A.)			STANDARD		
Special Valving	Type (proportion, delay, metering, other)		NONE	PROPORTIONING & METERING	
Power brake make & type (remote, int., etc.)	Std.		--	MORAINÉ INTEGRAL	
	Opt.		MORAINÉ INTEGRAL	--	
Effective area (sq. in.) *			192.0	116.33	
Gross lining area (sq. in.) **			199.5	124.25	
Swept area (sq. in.) ***			328.3	376.38	
Front to Rear Effectiveness Relationship					
Drum	Diameter (nominal)	Front	11.0	--	
		Rear		11.0	
Type and material			COMPOSITE: RIM-CAST IRON, WEB-STEEL		
Rotor	Outer working diameter		--	11.80	
	Inner working diameter		--	7.85	
	Working width		--	1.25	
	Material & type (vented/solid)		--	CAST IRON-VENTED	
Wheel cylinder bore	Front		1 3/16	2 15/16	
	Rear			1.0	
Master Cylinder	Bore			1.0	
	displacement distribution	Front	%	55	
		Rear	%	45	
	Pedal arc ratio			2.8:1 (POWER)	
Line pressure at 100 lb. pedal load			900 (POWER)		
Shoe Clearance	Front		.015	.000	
	Rear			.015	
Bonded or riveted			RIVETED		
Brake lining	Front Wheel	Material	MARSHALL H-3144PRI H-3152 SEC.	JM-1499	
		Size (length x width x thickness)	Prim. or out-board	9.00 x 2.75 x .20	5.40 x 1.92 x .41
			Second. or in-board	12.00 x 2.75 x .29	5.40 x 1.92 x .41
		Segments per shoe	ONE	ONE	
Rear Wheel	Material	MARSHALL H-3144 PRIMARY, H-3152 SECONDARY			
	Size (length x width x thickness)	Prim. or out-board	9.00 x 2.00 x .20		
		Second. or in-board	12.00 x 2.00 x .20		
	Segments per shoe	ONE			

* 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 contact circumference.)

NOTE: ABOVE SPECIFICATIONS WILL APPLY TO CARS BUILT AFTER APPROX. 1/1/69 FOR BRAKE SPECS. ON CARS BUILT PRIOR TO 1/1/69 PLEASE REFER TO 1968 AMA SPECIFICATIONS.

AMA Specifications—Passenger Car

MAKE OF CAR CHECKER MODEL YEAR 1969 DATE ISSUED 9-1-68 REVISED (*)MODEL A-11D, A-11ED, A-12D, A-12ED

STEERING			120" WB	129" WB	
Manual (std., opt., NA)			N.A.		
Power (std., opt., NA)			STD.		
Adjustable steering wheel (tilt, swing, other)	Type and description (std., opt., NA)		N.A.		
	Manual		N.A.		
Wheel diameter	Power		17.25		
	Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	42.3'	43.3'
Inside rear		Curb to curb (l. & r.)	37.5'	38.5'	
		Wall to wall (l. & r.)	25.5'	24.5'	
Curb to curb (l. & r.)		26.5'	25.5'		
			N.A.		
Manual	Gear	Type			
		Make			
		Ratios	Gear		
			Overall		
No. wheel turns (stop to stop)					
Power	Type (coaxial, linkage, etc.)		COAXIAL		
	Make		SAGINAW		
	Gear	Type	RECIRCULATING BALL NUT		
		Ratios	Gear	17.5:1	
			Overall	20.4:1	
	Pump driven by		CRANKSHAFT PULLEY-V-BELT		
No. wheel turns (stop to stop)			3.98 LOCK TO LOCK		
Linkage	Type		PARALLELOGRAM-EQUAL LENGTH TIE RODS		
	Location (front or rear of wheels, other)		REAR		
	Drag link (trans. or longit.)		TRANSVERSE		
	Tie rods (one or two)		TWO		
Steering Axis	Inclination at camber (deg.)		7° @ 1° CAMBER		
	Bearings (type)	Upper	BALL JOINT-METALLIC BEARING		
		Lower	BALL JOINT-METALLIC BEARING		
		Thrust	BALL BEARING IN LOWER JOINT		
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		2° POSITIVE		
	Camber (deg.)		30' TO 1° 30'		
	Toe-in (outside track inches)		.062-.125		
Steering spindle & joint type			STEEL FORGED KNUCKLE MOUNTING BALL STUDS		
Wheel Spindle	Diameter	Inner bearing	1.375 (EARLY PRODUCTION-1,2498)		
		Outer bearing	.7495-.7498		
	Thread size		3/4-16'		
	Bearing type		TAPERED ROLLER		

AMA Specifications—Passenger Car

MAKE OF CAR CHECKER MODEL YEAR 1969 DATE ISSUED 9-1-68 REVISED (a)MODEL A-11D, A-11ED, A-12D, A-12ED

SUSPENSION—GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling		NONE
Provision for brake dip control		NONE
Provision for acc. squat control		NONE
Special provisions for car jacking		NONE
Shock absorber front & rear	Type	DOUBLE ACTING HYDRAULIC
	Make	MONROE
	Piston dia.	1.00
Other special features		- -

SUSPENSION—FRONT

Type and description		INDEPENDENT: LONG LOWER, SHORT UPPER, CONTROL ARMS: COIL SPRINGS BETWEEN FRAME AND LOWER CONTROL ARM, BALL JOINTS FOR KNUCKLE MOUNTING
Spring	Type	COIL COMPRESSION
	Material	SPRING STEEL-ROUND BAR
	Size (coil design height & I.D. bar length x dia.)	9.98 x 4.03 x 155.5 x 720
	Spring rate (lb. per in.)	398
	Rate at wheel (lb. per in.)	199
Stabilizer	Type (link, linkless, frameless)	LINK
	Material & bar diameter	SAE # 1090 SPRING STEEL-.750

SUSPENSION—REAR

Type and description		HOTCHKISS
Drive and torque taken through		SPRINGS
Spring	Type	MULTILEAF
	Material	HIGH CARBON STEEL
	Size (length x width, coil design height & I.D.; bar length & dia.)	56.00 x 2.50
	Spring rate (lb. per in.)	A-11D, A-11ED-120 A-12D-110 A-12ED-120
	Rate at wheel (lb. per in.)	A-11D, A-11ED-125 A-12D-114 A-12ED-125
	Mounting insulation type	RUBBER BUSHINGS
	If leaf	No. of leaves Shackle(comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	NONE
	Material	NONE
Track bar type		NONE

AMA Specifications—Passenger Car

MAKE OF CAR CHECKER MODEL YEAR 1969 DATE ISSUED 9-1-68 REVISED (e)MODEL A-11D, A-11ED, A-12D, A-12ED

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)

SEPARATE FRAME: SIDE RAILS WITH "X" MEMBER FORMING A WELDED BOX SECTION FRONT & REAR. THREE TUBULAR AND ONE CHANNEL CROSSMEMBERS.

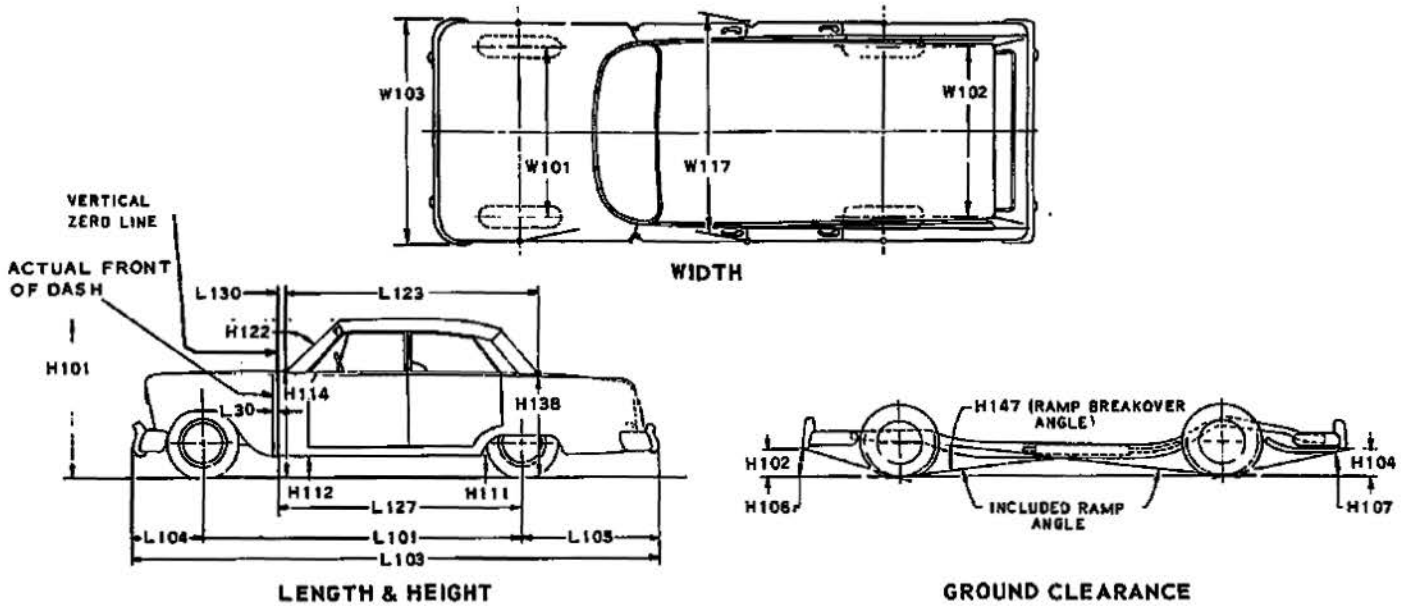
BODY - MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors	FRONT
	Rear doors	FRONT
Type of finish (lacquer, enamel, other)		LACQUER
Hood counterbalanced (yes, no)		YES
Hood release control (internal, external)		EXTERNAL
Vehicle Ident. No. location		LEFT HAND SIDE UNDER HOOD ON DASH & TOP OF INST.PAN.
Engine No. location		LEFT HAND SIDE UNDER HOOD ON DASH & ON PAD RIGHT FRONT SIDE OF CRANKCASE
Theft protection - type		IGNITION & DOOR LOCKS
Vent window control method (crank, friction pivot)	Front	FRICITION PIVOT
	Rear	NONE
Seat cushion type	Front	POLYURETHANE FOAM WITH COIL SPRING
	Rear	POLYURETHANE FOAM WITH COIL SPRING
	3rd seat	NONE
Seat back type	Front	COTTON PAD WITH COIL SPRING
	Rear	COTTON PAD WITH COIL SPRING
	3rd seat	NONE
Windshield glass type (i.e., single curved - laminated plate)		SINGLE CURVED-LAMINATED PLATE
Side glass type (i.e., curved - tempered plate)		FLAT TEMPERED PLATE
Backlight glass type (i.e., compound curved - tempered plate, three piece)		CURVED TEMPERED PLATE
Windshield glass exposed surface area		1094.0
Side glass exposed surface area	A-11D, A-12D-1864.75	A-11ED, A-12ED-2138.75
Backlight glass exposed surface area		986.12
Total glass exposed surface area	A-11D, A-12D-3926.87	A-11ED, A-12ED-4200.87

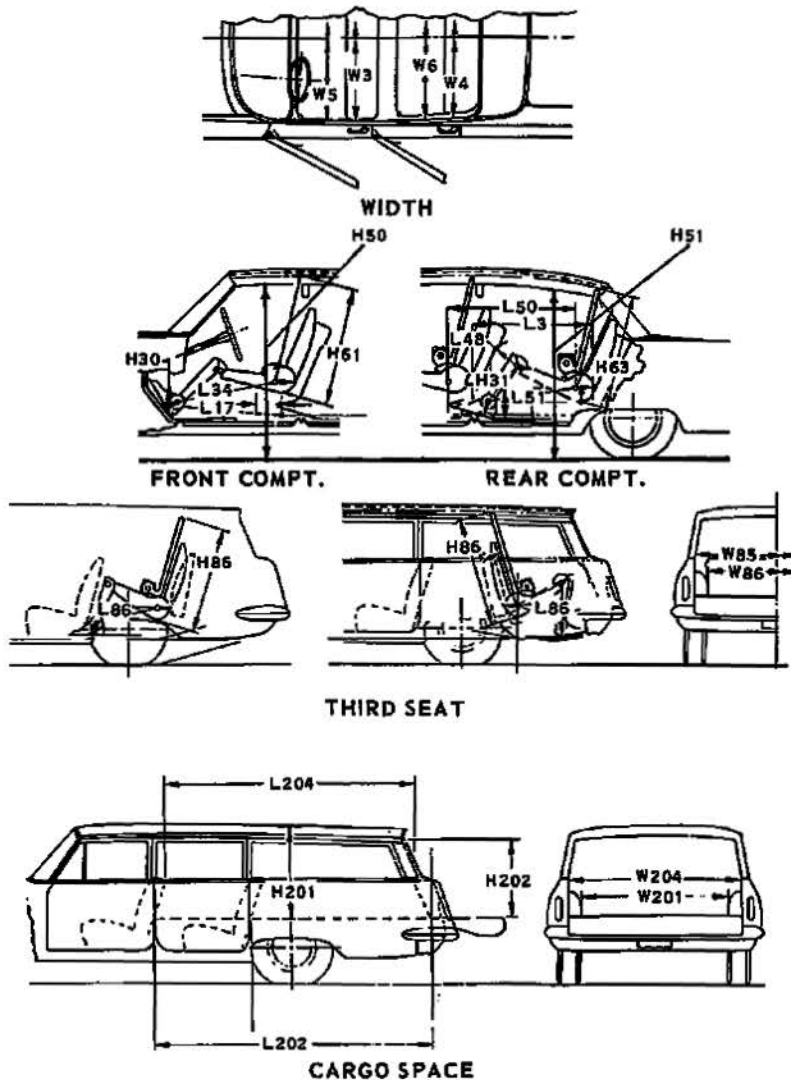
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

- W101 WHEEL TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD - REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

EXTERIOR LENGTH DIMENSIONS

- L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG - FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG - REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

EXTERIOR HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.
- H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
- H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND - FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND - REAR. Minimum dimension, includes bumper guards.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

FRONT COMPARTMENT DIMENSIONS

- H 61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
- H 30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
- W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.
- H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

REAR COMPARTMENT DIMENSIONS

- L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
- H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L 48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
- L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
- W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
- W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
- H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON - THIRD SEAT DIMENSIONS

- W 85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W 86 HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
- L 86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H 86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheelhouseings at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and lift-gates fully open.
- V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201

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