AMA Specifications—Passenger Car

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

MANUFACTURER	CAR NAME	
CHECKER MOTORS CORPORATION	CHECKER AEROBUS	
MAILING ADDRESS	MODEL YEAR	ISSUED: 9-1-68
2016 N. PITCHER ST., KALAMAZOO, MICH. 49007	1969	REVISED (e)

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.

TABLE OF CONTENTS

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

CHECKER AEROBUS SERIES A-12W6M	6 DOOR STATION WAGON 9 PASSENGER
CHECKER AEROBUS SERIES A-12W8M	8 DOOR STATION WAGON 12 PASSENGER

AMA Specifications—Passenger Car

Page 1

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

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-12W6M	A-12W8M
WIDTH			
Track – Front	W101	62.00	
Track – Rear	W102	65.05	
Maximum overall car width	W103	76.00	
Body width at No. 2 pillar	W117	73.38	
LENGTH			
Body "O" to front of dash	L 30	0	
Wheelbase	L101	154.50	189.00
Overall car length	L103	235.25	269.75
Overhang – front	L104	34.00	
Overhang – rear	L105	46.75	
Body upper structure length	L123	169.12	203.62
Body "O" line to ℄ of rear wheel	L127	141.50	176.00
Body "O" line to w/s cowl point	L130	9.44	
HEIGHT PASS.DIST.FRT.& REAR		- -	
TRUNK CARGO LOAD		- -	
Passenger Distribution (front & rear)		64.37	
Trunk/Cargo load (lbs.)		46.80	
Overall height	H101		
Cowl height	H114	9.80	
Deck height	H138		
Rocker panel – front: To ground / From front wheel ℄	H112	9.80	
Rocker panel – rear: To ground / From rear wheel ℄	H111		
Windshield slope angle	H122	42°	
GROUND CLEARANCE			
Bumper to ground – front	H102	10.00	
Bumper to ground – rear	H104	15.00	
Angle of approach	H106	18°	
Angle of departure	H107	17°	
Ramp breakover angle	H147	12.5°	10.5°
Min. running clearance (Specify)	H156	7.00	

AMA Specifications—Passenger Car

MAKE OF CAR CHECKER MODEL YEAR 1969 DATE ISSUED 9-1-68 REVISED (8)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	A-12W6M A-12W8M
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	58.20
REAR COMPARTMENT		
H Point couple distance	L50	41.00
Effective head room	H63	37.00
Min. effective leg room	L51	40.00 (LAST SEAT)
H Point to Heel point	H31	13.00
Min. knee room	L48	10.00
Rear Compartment room	L 3	33.00
Shoulder room	W 4	58.00
Hip room	W 6	64.00
Upper body opening to ground	H51	57.70
LUGGAGE COMPARTMENT		NOT APPLICABLE
Usable luggage capacity	V 1	
Liftover height	H195	
Position of spare tire storage		
Method of holding lid open		
STATION WAGON – THIRD SEAT		NOT APPLICABLE
Shoulder Room	W85	
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	N.A.
Cargo width – Wheelhouse	W201	49.62
Opening width at belt	W204	45.50
Maximum cargo height	H201	33.62
Rear opening height	H202	26.62
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	40.00

AMA Specifications—Passenger Car

Page 3

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

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-12W6M A-12W8M	350	2 BBL D.D.	8:1	200 @ 4000	325 @ 2000	3-SPEED MANUALLY SHIFTED	4.10:1 POWRLOK OPTION
						DUAL RANGE AUTOMATIC	3.54:1 POWRLOK OPTION

AMA Specifications—Passenger Car

Page 4

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

MODEL A-12W6M; A-12W8M

ENGINE – GENERAL

Type, no. cyls., valve arr.		90° V-8 O.H.V.
Bore and stroke (nominal)		4.00 BORE x 3.48 STROKE
Piston displacement, cu. in.		350 C.I.D.
Bore spacing (℄ to ℄)		4.4
No. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Compres. ratio (nominal)		8.00:1
Cylinder Head Material		CAST ALLOY IRON
Cylinder Block Material		CAST ALLOY IRON.
Cyl. Sleeve-Wet,dry,none		NONE
Number of mtg. points	Front	2
	Rear	1
Engine installation angle		6°
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		51.2
Publishing max. bhp* @ eng. RPM		185 B.H.P. @ 4000 RPM
Publishing max. torque * (lb. ft. @ RPM)		325 LB. FT. @ 2000 RPM
Recommended fuel regular – premium		REGULAR

ENGINE – PISTONS

Material			CAST ALUMINUM ALLOY WITH STEEL STRUT
Description and finish			FLAT, NOTCHED HEAD: SLIPPER SKIRT
Weight (piston only) oz.			23.5
Clearance (limits)	Top land		.0295-.0365
	Skirt	Top	.0010-.0016
		Bottom	- -
Ring groove depth	No. 1 ring		.2075-.2145
	No. 2 ring		.2075-.2145
	No. 3 ring		.1895-.1965
	No. 4 ring		NONE

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

AMA Specifications—Passenger Car

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

MODEL A-12W6M, A-12W8M

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.	CAST ALLOY IRON, INSIDE BEVEL UPPER-FLASH CHROME PLATE LOWER-WEAR RESISTANT COATING
	Width	.0775-.0780 UPPER; .0770-.0780 LOWER
	Gap	.010-.020
Oil	Description - material, coating, etc.	MULTI-PIECE (2 RAILS AND ONE SPACER EXPANDER) SPACER EXPANDER-STEEL RAILS-STAINLESS STEEL, CHROME PLATED O.D.
	Width	.1840-.1880 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	- -
Clearance	In piston		.0015-.0025
	In rod		NONE
Direction & amount offset in piston			MAJOR THRUST SIDE-.06

ENGINE – CONNECTING RODS

Material		DROP FORGED STEEL
Weight (oz.)		20.80
Length (center to center)		5.699-5.701
Bearing	Material & Type	STEEL BACKED BABBITT OR COPPER LEAD ALLOY
	Overall length	.807
	Clearance (limits)	.0007-.0027
	End play	.009-.013

AMA Specifications—Passenger Car

Page 6

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

MODEL A-12W6M, A-12W8M

ENGINE – CRANKSHAFT

Material			DROP FORGED STEEL
Vibration damper type			RUBBER MOUNTED INERTIA
End thrust taken by bearing (No.)			FIVE
Crankshaft end play			.002-.006
Main bearing	Material & type		BABBITT ON STEEL OR COPPER LEAD ALLOY
	Clearance		.0003-.0029
	Journal dia. and bearing overall length	No. 1	2.4502 DIA. x .752
		No. 2	2.4502 DIA. x .752
		No. 3	2.4502 DIA. x .752
		No. 4	2.4502 DIA. x .752
		No. 5	2.4502 DIA. x 1.177
		No. 6	- -
		No. 7	- -
	Dir. & amt. cyl. offset		NONE
Crankpin journal diameter			2.099-2.100

ENGINE – CAMSHAFT

Location			CENTER OF V, ABOVE CRANK
Material			CAST ALLOY IRON
Bearings	Material		BABBITT ON STEEL
	Number		FIVE
Type of Drive	Gear or chain		CHAIN
	Crankshaft gear or sprocket material		STEEL
	Camshaft gear or sprocket material		CAST IRON
	Timing chain	No. of links	46
		Width	.875
		Pitch	.50

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		STANDARD
Valve rotator, type (intake, exhaust)		EXHAUST VALVES ONLY
Rocker ratio		1.5:1
Operating tappet clearance (indicate hot or cold)	Intake	ZERO
	Exhaust	ZERO

(Continued)

AMA Specifications—Passenger Car

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

MODEL A-12W6M, A-12W8M

ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	28°
		Closes (°ABC)	72°
		Duration - deg.	280°
	Exhaust	Opens (°BBC)	78°
		Closes (°ATC)	30°
		Duration - deg.	288°
	Valve opening overlap		58°
Intake	Material		ALUMINIZED HIGH ALLOY STEEL
	Overall length		4.870-4.889
	Actual overall head dia.		1.95
	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)		.3945
	Outer spring press. & length	Valve closed (lb.@in.)	78-86 @ 1.66
		Valve open (lb.@in.)	194-206 @ 1.26
	Inner spring press. & length	Valve closed (lb.@in.)	SPRING DAMPER
		Valve open (lb.@in.)	SPRING DAMPER
Exhaust	Material		STELLITE FACED HIGH ALLOY STEEL
	Overall length		4.913-.4.933
	Actual overall head dia.		1.51
	Angle of seat & face		46°(SEAT)-45°(FACE)
	Seat insert material		INDUCTION HARDENED SEATS (NO INSERT)
	Stem diameter		.3410-.3417
	Stem to guide clearance		.0010-.0027
	Lift (@ zero lash)		.3945
	Outer spring press. & length	Valve closed (lb.@in.)	78-86 @ 1.66
		Valve open (lb.@in.)	194-206 @ 1.26
	Inner spring press. & length	Valve closed (lb.@in.)	SPRING DAMPER
		Valve open (lb.@in.)	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	JET
	Cylinder walls	PRESSURE, JET CROSS SPRAYED

(Continued)

AMA Specifications—Passenger Car

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

MODEL A-12W6M, A-12W8M

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	GEAR
Normal oil pressure (lb. engine rpm)	50-65 P.S.I. @ 2000 R.P.M. (BENCH TEST-NO FLOW CONDITIONS)
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)	COMPLETE
Capacity of c'case, less filter-refill (qt.)	5
Oil grade recommended (SAE viscosity and temperature range)	32°F AND ABOVE---SAE 20W, SAE 20, OR SAE 10W-30 0°F TO 32° - - -SAE 10W, OR SAE 10W-30 BELOW 0°F - - - -SAE 5W, OR SAE 5W-30
Engine Service Reqmt. (MM, MS, etc.)	MS OR DG

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		SINGLE, WITH CROSS OVER
Muffler No. & type (reverse flow, straight thru, separate resonator)		ONE, REVERSE FLOW (SEPARATE RESONATOR ON A-12W8M)
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	VENTILATES TO INDUCTION SYSTEM
		Optional	- -
Control Unit	Make and model		AC SPARK PLUG-7424251
	Location		LEFT FRONT ROCKER COVER
	Energy source (manifold vacuum, carburetor air stream, other)		MANIFOLD VACUUM
	Control method (variable orifice, fixed orifice, other)		VARIABLE ORIFICE
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)		AT CARBURETOR BASE
	Air inlet (breather cap, carburetor air cleaner, other)		CARBURETOR AIR CLEANER
	Flame arrestor (screen, check valve, other)		SCREEN

AMA Specifications—Passenger Car

Page 9

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

MODEL A-12W6M, A-12W8M

ENGINE – EXHAUST EMISSION CONTROL

OPTIONAL (STD.-CALIF. CARS)

Type (Air injection, engine modifications, other)			AIR INJECTION
Air Injection Pump	Type		SEMI-ARTICULATED VANE TYPE
	Displacement		19.3
	Drive ratio		1.15:1
	Drive type		CRANKSHAFT PULLEY
	Relief valve (type)		DIVERTER VALVE-SEPARATE FROM PUMP
	Filter (describe)		CENTRIFUGAL AIR CLEANER
Air Injection System	Air distribution (head, manifold, etc.)		MANIFOLD
	Point of entry		EXHAUST PORTS
	Injection tube I.D.		.2565
	Check valve type		PRESSURE (PLATE TYPE)
	Backfire protection (type)		DIVERTER VALVE
Carburetor	Make		SAME AS ENGINE WITHOUT AIR INJECTION
	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			

AMA Specifications—Passenger Car

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

MODEL A-12W6M, A-12W8M

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 (U.S. gals.)		23 APPROXIMATELY
	Filler location		REAR
Fuel Pump	Type (elec. or mech.)		MECHANICAL
	Locations		RIGHT FRONT OF ENGINE
	Pressure range		5.25-6.50 P.S.I.
Vacuum booster (std., optional, none)			NONE
Fuel Filter	Type		SCREEN AND SINTERED BRONZE
	Locations		FUEL TANK AND BETWEEN PUMP & CARBURETOR
Carburetor	Choke type		MANUAL
	Intake manifold heat control (exhaust or water)		EXHAUST
	Air cleaner type	Standard	PAPER
		Optional	NONE
	Idle speed (spec. neutral or drive)	Manual	700 IN NEUTRAL
		Automatic	700 IN NEUTRAL
		Idle A/F mix.	NOT SPECIFIED

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
ALL	350	ALL	ROCHESTER	7029124	ONE 2 BBL. D.D.	1.68

AMA Specifications—Passenger Car

Page 11

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

MODEL A-12W6M, A-12W8M

ENGINE – COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			PRESSURE
Radiator cap relief valve pressure			13 + 1 P.S.I. STD.
Circulation thermostat	Type (choke, bypass)		CHOKE
	Starts to open at (°F)		192° - 198°
Water pump	Type (centrifugal, other)		CENTRIFUGAL
	GPM @ 1000 pump rpm		53 G.P.M. @ 4200 RPM
	Number of pumps		ONE
	Drive (V-belt, other)		V-BELT
	Bearing type		PERMANENTLY LUBRICATED DOUBLE ROW BALL
By-pass recirculation type (inter., ext.)			INTERNAL
Radiator core type (cellular, tube and fin, other)			TUBE AND FIN
Cooling system capacity	With heater (qt.)		17
	Without heater (qt.)		16
	Opt. equipment-specify (qt.)		UNDERSEAT HEATERS-2 UNITS-9 QTS.
Water jackets full length of cyl. (yes, no)			YES
Water all around cylinder (yes, no)			YES
Radiator hose	Lower	Number and type (molded, straight)	ONE-MOLDED
		Inside diameter	1.75 INCHES
	Upper	Number and type (molded, straight)	ONE-MOLDED
		Inside diameter	1.50 INCHES
	By-pass	Number and type (molded, straight)	ONE-MOLDED
		Inside diameter	.610
Fan	Number of blades & spacing		5 BLADES STAGGERED
	Diameter		18
	Ratio-fan to crankshaft rev.		.95:1
	Fan cutout type		NONE
	Bearing type		SEE WATER PUMP
*Drive belts (indicate belt used by letter)	Fan		A
	Generator or alternator		A
	Water Pump		A
	Power Steering		B
	Air Conditioning		C-OPTIONAL

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	——	38°-42°	——								
Nominal length (SAE)	44.25	36.00	54.33								
Width	——	.380	——								

AMA Specifications—Passenger Car

Page 12

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

MODEL A-12W6M, A-12W8M

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		WILLARD MODEL SMR-5SH
	Voltage Rtg. & Total Plates		12V-54 PLATES
	SAE Designation & Amp. Hr. Rtg.		80 AMP. HR. @ 20 HOUR RATE
	Location		RIGHT FRONT ENGINE COMPARTMENT
	Terminal grounded		NEGATIVE
Generator or Alternator	Make		MOTOROLA
	Model		70D4479lB
	Type and rating		HEAVY DUTY
	Output at engine idle (neutral)		15 AMPS. @ 500 RPM
	Ratio–Gen. to Cr/s rev.		2.76:1
Regulator	Make		MOTOROLA
	Model		
	Type		TRANSISTOR
	Cutout relay	Closing voltage - generator rpm	NONE
		Reverse current to open	NONE
	Regulated	Voltage	14.5 APPROX.
		Current	- -
	Voltage test conditions	Temperature	HOT
		Load	10 AMPS.
		Other	

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make			DELCO-REMY
	Model			1108361 AUTO. TRANS.-1108360 STD. TRANS.
	Rotation (drive end view)			CLOCKWISE
Motor control	Switch (solenoid, manual)			SOLENOID
	Starting procedure			DISENGAGE CLUTCH OR SELECT N OR P PULL CHOKE CONTROL, TURN IGNITION KEY TO "START;" RELEASE KEY WHEN ENGINE STARTS: ADJUST CHOKE TO BEST RUNNING: PUSH IN AS SOON AS POSSIBLE
Motor Drive	Engagement type			POSITIVE SHIFT SOLENOID
	Pinion meshes (front, rear)			REAR
	Number of teeth	Pinion		9
		Flywheel	Manual	168
			Auto.	153
	Flywheel tooth face width		Manual	.4010-.4130
			Auto.	.4100-.4220

AMA Specifications—Passenger Car

Page 13

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

MODEL A-12W6M, A-12W8M

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		STD.
	Transistorized – Std., Opt., N.A.		N.A.
	Other (specify)		
Coil	Make		DELCO-REMY
	Model		1115204
	Amps	Engine stopped	4.0
		Engine idling	1.8
Distributor	Make		DELCO-REMY
	Model		1111338
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	800
		Intermediate points deg.@rpm	
		Max. deg.@rpm	28° @ 4100
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)	NONE
		Intermediate points, deg.@in. Hg.	NONE
		Max. deg. in. Hg.	NONE
	Breaker gap (in.)		.019
	Cam angle (deg.)		28° to 32°
	Breaker arm tension (oz.)		19 TO 23 OZ.
Timing	Crankshaft deg.@rpm		4° BTDC @ 700
	Mark location		CRANK PULLEY HUB
Spark Plug	Make		A.C.
	Model		CR-43
	Thread (mm)		14 MM
	Tightening torque (lb. ft.)		25 LB. FT.
	Gap		.033-.038
Cable	Conductor type		NON-METALLIC
	Insulation type		RUBBER WITH NEOPRENE JACKET
	Spark plug protector		NEOPRENE

ELECTRICAL – SUPPRESSION

Locations & type	NON-METALLIC HI-TENSION CABLES

AMA Specifications—Passenger Car

Page 14

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

MODEL A-12W6M, A-12W8M

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	STEWART WARNER
	Trip odometer (yes,no)	NO
Charge indicator – type		AMMETER
Temperature indicator – type		THERMAL GAGE
Oil pressure indicator – type		THERMAL GAGE
Fuel indicator – type		THERMAL GAGE
Other		
Wind-shield wiper	Type – Standard	TRICO-PRESTOLITE
	Type – Optional	NONE
Wind-shield washer	Type – Standard	ELECTRICAL-MANUAL CONTROL
	Type – Optional	NONE
Horn	Type	ELECTROMAGNETIC VIBRATOR
	Number used	2
	Amp draw (each)	10 AMPS AT 12 VOLTS

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		H.D. SINGLE DRY DISC
Type pressure plate springs		COIL
Total spring load (lb.)		1877
No. of clutch driven discs		ONE
Clutch facing	Material	WOVEN ASBESTOS COMPOSITION
	Outside & inside dia.	11.88 & 6.75
	Total eff. area (sq.in.)	149.74
	Thickness	.140
	Engagement cushioning method	FLAT WAVE SPRINGS
Release bearing	Type & method of lubrication	BALL BEARING, PERMANENTLY LUBRICATED
Torsional damping	Methods: springs, friction material	COIL SPRINGS

AMA Specifications—Passenger Car

Page 15

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

MODEL A-12W6M, A-12W8M

DRIVE UNITS – TRANSMISSIONS

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

DRIVE UNITS – MANUAL TRANS.

			THREE SPEED	FOUR SPEED
Number of forward speeds			3	4
Transmission ratios	In first		2.975	2.52
	In second		1.753	1.88
	In third		1.000	1.46
	In fourth		NONE	1.00
	In reverse		3.769	2.59
Synchronous meshing, specify gears			SECOND & THIRD	SECOND & THIRD & FOURTH
Shift lever location			STEERING COLUMN	FLOOR MOUNTED
Lubricant	Capacity (pt.)			
	Type recommended		MULTI-PURPOSE GEAR LUBRICANT	
	SAE viscosity number	Summer	SAE 90	
		Winter	SAE 90	
		Extreme cold	SAE 90	

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	
	SAE viscosity number — Winter	
	SAE viscosity number — Extreme cold	

AMA Specifications—Passenger Car

Page 16

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

MODEL	A-12W6M	A-12W8M

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		WARNER GEAR MODEL 8 D.R.	
Type describe		TORQUE CONVERTER WITH HYDRAULICALLY OPERATED PLANETARY GEAR TRANSMISSION	
Selector location		STEERING COLUMN LEVER	
List gear ratios Selector Pattern and indicate which are used in each selector position		PARK -- R 2.00:1 N - D_2 1.47:1 1.00:1 D_1 2.40:1 1.47:1 1.00:1 L 2.40:1	
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	THREE	
	Max. ratio at stall	2.1:1	
	Type of cooling (air, liquid)	CIRCULATED AIR PLUS LIQUID COOLER IN RADIATOR	
	Nominal diameter	12"	
Lubricant	Capacity–refill (pt.)	19	
	Type recommended	TYPE A AUTO. TRANS. SUFFIX A	
Special transmission features			

DRIVE UNITS – PROPELLER SHAFT

Number used		THREE
Type (straight tube, tube-in-tube, internal-external damper, etc.)		EXPOSED
Outer diam. x length* x wall thickness	Manual 3-speed trans.	FRONT 2.50 x 30.156 x .065 CENTER 2.50 x 34.906 x .065 CENTER 3.50 x 69.406 x .065 REAR 2.50 x 27.187 .065
	Manual 4-speed trans.	SAME AS 3 SPEED
	Overdrive transmission	N.A.
	Automatic transmission	SAME AS 3 SPEED

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

(Continued)

AMA Specifications—Passenger Car

Page 17

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

MODEL A-12W6M, A-12W8M

DRIVE UNITS – PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		ANTI-FRICTION
	Lubrication (fitting, prepack)		PREPACK
Slip Yoke	Type		2 SLEEVE YOKES SQUARE SPLINE
	Number of teeth		16
	Spline O.D.		1.28
Universal joints	Make and Mfg. No.		DANA 1311
	Number used		FOUR
	Type (ball and trunnion, cross)		CROSS
	Rear attach. (u-bolt, clamp, etc.)		U-BOLT
	Bearing	Type (plain, anti-friction)	ANTI-FRICTION
		Lubric. (fitting, prepack)	FITTING
Drive taken through (torque tube or arms, springs)			REAR SPRINGS
Torque taken through (torque tube or arms, springs)			REAR SPRINGS

DRIVE UNITS – AXLE

Type (front, rear)			REAR
Description			SEMI-FLOATING DANA 60-2
Limited Slip differential, type			TORQUE BIAS, CAM OPERATED DISC CLUTCHES
Drive Pinion Offset			1.125
No. of differential pinions			STANDARD-2 POWR-LOC-4
Pinion adjustment (shim, other)			SHIMS
Pinion bearing adj. (shim, other)			SHIMS
Wheel bearing type			TAPERED ROLLER BEARING
Lubricant	Capacity (pt.)		6
	Type recommended		MULTIPURPOSE TYPE GEAR LUBRICANT-API SERVICE-GL4
	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		4.10:1	3.54:1
No. of teeth	Pinion	10	13
	Ring gear	41	46
Ring Gear O.D.		9.75	

AMA Specifications—Passenger Car

Page 18

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

MODEL A-12W6M, A-12W8M

DRIVE UNITS – WHEELS

Type & material			DISC, PRESSED STEEL
Rim (size & flange type)		Std.	15 x 6½L
		Opt.	NONE
Attachment	Type (bolt or stud)		STUD
	Circle diameter		5.50
	Number and size		FIVE, 9/16-18 NF

MODEL

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		8.20 x 15 8 P.R.
	Type (bias, radial, etc.)		BIAS
	Full rated Inflation Press.	Front	32
		Rear	32
	Rev./Mile at 50 MPH		705
Optional	Size, ply rating, & ply		NO OPTIONS

BRAKES – PARKING

Type of control		PEDAL - MANUAL RELEASE
Location of control		LEFT SIDE
Operates on		REAR WHEELS
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

AMA Specifications—Passenger Car

Page 19

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

MODEL A-12W6M, A-12W8M

BRAKES – SERVICE

Type (drum) or (disc & no. of pistons)				DRUM
Self adjusting (std., opt., N.A.)				STANDARD
Special Valving	Type (proportion, delay, metering, other)			
Power brake make & type (remote, int., etc.)		Std.		DELCO-INTEGRAL, VACUUM SUSPENDED
		Opt.		
Effective area (sq. in.) *				235
Gross lining area (sq. in.) **				259
Swept area (sq. in.) ***				415
Front to Rear Effectiveness Relationship				57
Drum	Diameter (nominal)	Front		11.00
		Rear		11.00
	Type and material			CENTRIFUSE CAST IRON
Rotor	Outer working diameter			
	Inner working diameter			
	Working width			
	Material & type (vented/solid)			
Wheel cylinder bore	Front			1.125
	Rear			1.000
Master Cylinder	Bore			1.000
	displacement distribution	Front	%	55
		Rear	%	45
Pedal arc ratio				2.8:1
Line pressure at 100 lb. pedal load				900
Shoe Clearance	Front			NO MAJOR ADJUSTMENT REQUIRED
	Rear			NO MAJOR ADJUSTMENT REQUIRED
Brake lining	Bonded or riveted			RIVETED
	Front Wheel	Material		MOLDED ASBESTOS
		Size (length x width x thickness)	Prim. or outboard	9.39 x 3.00 x .22
			Second. or inboard	12.21 x 3.00 x .28
		Segments per shoe		ONE
	Rear Wheel	Material		MOLDED ASBESTOS
		Size (length x width x thickness)	Prim. or outboard	9.39 x 3.00 x .22
			Second. or inboard	12.21 x 3.00 x .28
		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.)

AMA Specifications—Passenger Car

Page 20

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

MODEL A-12W6M, A-12W8M

STEERING

Manual (std., opt., NA)				N.A.	
Power (std., opt., NA)				STANDARD	
Adjustable steering wheel (tilt, swing, other)		Type and description			
		(std., opt., NA)		N.A.	
Wheel diameter		Manual			
		Power		17.25	
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		49'5"	58'3"
		Curb to curb (l. & r.)		47'3"	56'6"
	Inside rear	Wall to wall (l. & r.)		32'6"	41'2"
		Curb to curb (l. & r.)		32'11"	41'8"
				17°30'	
Manual	Gear	Type		N.A.	
		Make		N.A.	
		Ratios	Gear	N.A.	
			Overall	N.A.	
	No. wheel turns (stop to stop)			N.A.	
Power	Type (coaxial, linkage, etc.)			COAXIAL ROTARY VALVE	
	Make			SAGINAW	
	Gear	Type		RECIRCULATING BALL NUT	
		Ratios	Gear	17.5:1	
			Overall	19.0:1	
	Pump driven by			CRANKSHAFT PULLEY BELT	
	No. wheel turns (stop to stop)			4.12	
Linkage	Type			PARALLELOGRAM WITH EQUAL 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 LINER	
		Lower		BALL JOINT - METALLIC LINER	
		Thrust		BALL BEARING IN LOWER	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			2°	
	Camber (deg.)			1° TO 2°	
	Toe-in (outside track inches)			.125 TO .188	
Steering spindle & joint type				FORGED STEEL, BALL JOINT TYPE	
Wheel Spindle	Diameter	Inner bearing		1.375	
		Outer bearing		.8437	
	Thread size			3/4 - 16	
	Bearing type			TAPERED ROLLER	

AMA Specifications—Passenger Car

Page 21

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

MODEL A-12W6M, A-12W8M

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.	1.625
Other special features		--

SUSPENSION – FRONT

Type and description		INDEPENDENT, WITH SHORT UPPER AND LONG LOWER CONTROL ARMS, BALL JOINTS, AND COIL SPRING SEATED ON LOWER ARMS	
Spring	Type	COIL	
	Material	HIGH ALLOY STEEL	
	Size (coil design height & I.D. bar length x dia.)	9.98 x 4.03 I.D.	
	Spring rate (lb. per in.)	400	500
	Rate at wheel (lb. per in.)	200	250
Stabilizer	Type (link, linkless, frameless)	LINK	
	Material & bar diameter	SAE 1090 SPRING STEEL - .750 DIA.	

SUSPENSION – REAR

Type and description		HOTCHKISS	
Drive and torque taken through		REAR SPRINGS	
Spring	Type	LEAF	
	Material	HIGH ALLOY STEEL	
	Size (length x width, coil design height & I.D.; bar length & dia.)	56.00 x 2.50	
	Spring rate (lb. per in.)	190	240
	Rate at wheel (lb. per in.)	199	251
	Mounting insulation type	RUBBER BUSHINGS	
	If leaf: No. of leaves	6	9
	If leaf: Shackle (comp. or tens.)	COMPRESSION	
Stabilizer	Type (link, linkless, frameless)	NONE	
	Material	NONE	
Track bar type		NONE	

AMA Specifications—Passenger Car

Page 22

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

MODEL A-12W6M, A-12W8M

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)	SEPARATE FRAME - "X" MEMBERED WITH TUBULAR CROSSMEMBERS 2 IN FRONT - 1 IN REAR STEEL CHANNEL FORMING BOX FRONT AND REAR

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 Indent. No. location		LEFT SIDE UNDER HOOD ON DASH & LEFT TOP INST. PANEL
Engine No. location		ON ABOVE PLATE AND ON PAD FRONT RH SIDE CRANKCASE
Theft protection - type		IGNITION & DOOR LOCKS
Vent window control method (crank, friction pivot)	Front	FRICTION PIVOT
	Rear	NONE
Seat cushion type	Front	POLYURETHANE FOAM WITH COIL WIRE SPRINGS
	Rear	SAME AS FRONT 2ND, 3RD & 4TH
	3rd seat	
Seat back type	Front	COTTON PAD WITH COIL WIRE SPRINGS
	Rear	SAME AS FRONT 2ND & 3RD & 4TH
	3rd seat	
Windshield glass type (i.e., single curved - laminated plate)		SINGLE CURVED - LAMINATED PLATE
Side glass type (i.e., curved - tempered plate)		DOOR-FLAT LAMINATED PLATE QUARTER-CURVED TEMP.
Backlight glass type (i.e., compound curved - tempered plate, three piece)		CURVED - ONE PIECE
Windshield glass exposed surface area		1100.00
Side glass exposed surface area		3863.62 4322.34
Backlight glass exposed surface area		592.92
Total glass exposed surface area		5556.56 6015.28

AMA Specifications—Passenger Car

Page 23

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

MODEL A-12W6M, A-12W8M

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	N.A.
	Vent windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability)		N.A.
Reclining front seat back (R-L or both)		N.A.
Front seat head restrainer (R-L or both)		N.A.
Radios (specify type as well as availability)		OPT.-DELUXE PUSH BUTTON AM OR DELUXE PUSH BUTTON AM-FM OPTIONAL
Rear seat speaker		N.A.
Power antenna		N.A.
Clock		OPTIONAL
Air conditioner (specify type and availability)		OPTIONAL-SINGLE FRONT UNIT OR FRONT & REAR DUAL
Speed warning device		ENGINE SPEED WARNING LIGHT
Speed control device		N.A.
Ignition lock lamp		N.A.
Dome lamp		STANDARD
Glove compartment lamp		N.A.
Luggage compartment lamp		N.A.
Underhood lamp		N.A.
Courtesy lamp		N.A.
Map lamp		N.A.
Auto. trans. quad. lamp		STANDARD
Cornering light lamp		N.A.

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	35.60
		Lowest	35.60
	Tail	Highest	36.50
		Lowest	36.50
	Sidemarker	Front	
		Rear	
Distance from C/L of car to center of bulb	Headlamp	Inside	24.60
		Outside *	31.00
	Tail	Inside	--
		Outside	31.50
	Directional	Front	27.70
		Rear	31.50

* If single headlamps are used enter here.

AMA Specifications—Passenger Car

Page 24

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

WEIGHTS

Model	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
				Pass. In Front		Pass. In Rear			
	Front	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant
AEROBUS A-12W6M 9 PASSENGER	2535	2135	4670					150	50
AEROBUS A-12W8M	2740	2565	5305					150	50

Accessories & Equipment Differential Weights				Remarks
AXLE-POWR-LOK		+18	+18	
RADIO & ANTENNA	+12		+12	
AIR CONDITIONER	+65	+37	+102	
AUTO TRANSMISSION	+85	+15	+100	

*Reference – SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

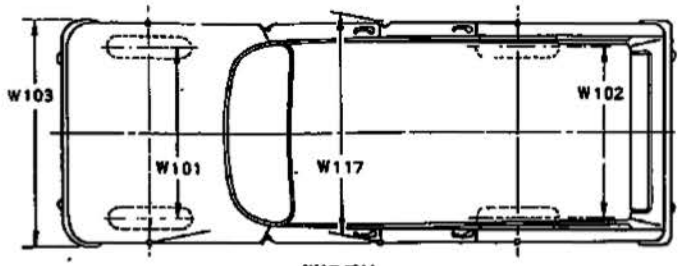
AMA Specifications—Passenger Car

Page 25

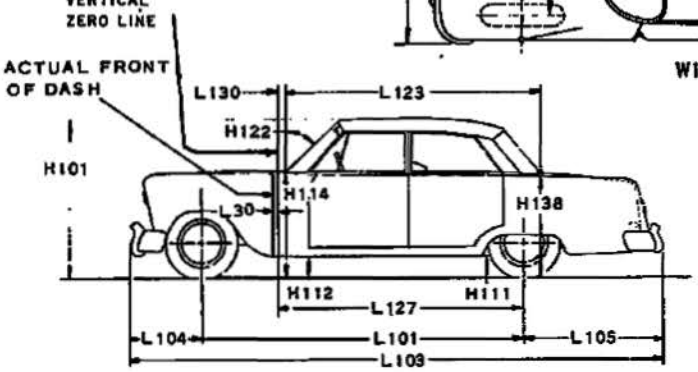
CAR AND BODY DIMENSIONS

KEY SHEET

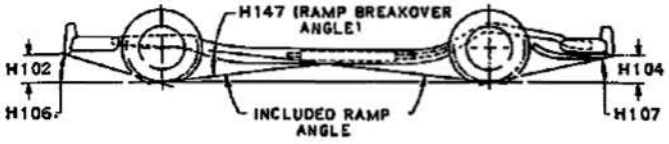
EXTERIOR CAR AND BODY DIMENSIONS



WIDTH

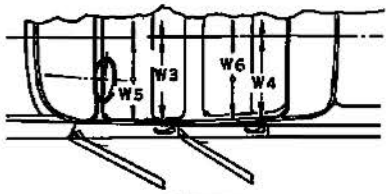


LENGTH & HEIGHT

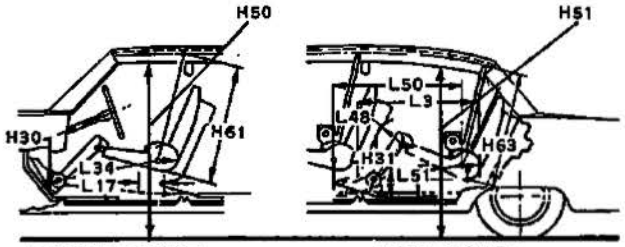


GROUND CLEARANCE

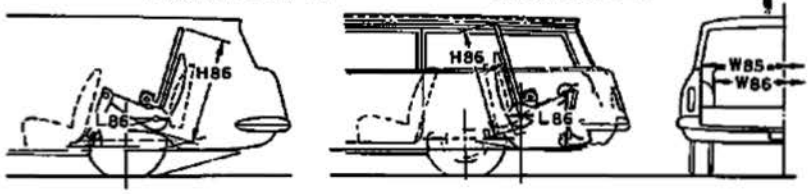
INTERIOR CAR AND BODY DIMENSIONS



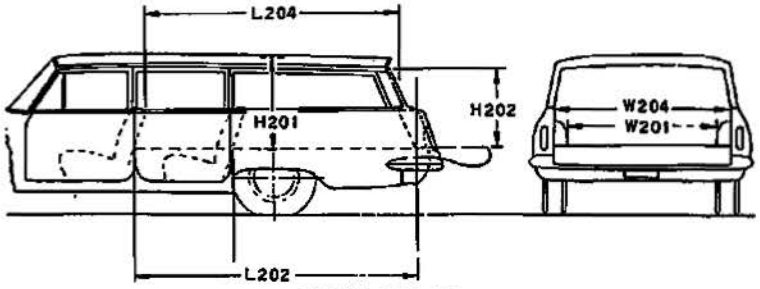
WIDTH



FRONT COMPT. REAR COMPT.



THIRD SEAT



CARGO SPACE

AMA Specifications—Passenger Car

Page 26

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 wheelhousings 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 liftgates 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.

$$\frac{W4 \times L204 \times H201}{1728}$$

AMA Specifications—Passenger Car

Page 27

INDEX