

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 OLDSMOBILE	CAR NAME Hurst Olds
MAILING ADDRESS LANSING, MICHIGAN	MODEL YEAR 1968
	ISSUED: 3-1-68
	REVISED (e)

NOTES:

1. The 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

Car & Body Dimensions 1,2	Drive Units 14	Suspensions 21
Engine - Mechanical 4	Brakes 18, 19	Weights 24
Electrical 12	Steering 20	Index 27

BODY - TYPES AND STYLE NAMES -

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

34477	Club Coupe
34487	Hardtop Coupe
5 passengers with bucket seats.	
6 passengers with bench seats.	

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (a)

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 and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL	SAE Ref. No.	
		Hurst Olds

WIDTH

Track - Front	W101	59.0
Track - Rear	W102	59.0
Maximum overall car width	W103	76.2
Body width at No. 2 pillar	W117	N.A.

LENGTH

Body "O" to front of dash	L 30	0.0
Wheelbase	L101	112.0
Overall car length	L103	201.6
Overhang - front	L104	40.96
Overhang - rear	L105	48.56
Body upper structure length	L123	-----
Body "O" line to $\text{\textcircled{C}}$ of rear wheel	L127	95.60
Body "O" line to w/s cowl point	L130	

HEIGHT

Overall height	H101	52.8
Cowl height	H114	-----
Deck height	H138	-----
Rocker panel - front	TOWARD ZERO H112	3.8
	From front wheel $\text{\textcircled{C}}$	-----
Rocker panel - rear	TOWARD ZERO H111	3.3
	From rear wheel $\text{\textcircled{C}}$	-----
Windshield slope angle	H122	53.0

GROUND CLEARANCE

Bumper to ground - front	H102	13.32
Bumper to ground - rear	H104	12.90
Angle of approach	H106	24° 42'
Angle of departure	H107	18° 45'
Ramp breakover angle	H147	12° 30'
Min. running clearance (Specify)	H156	5.32

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED ^(a)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	
		Hurst Olds

FRONT COMPARTMENT

Effective head room	H61	37.6
Max. eff. leg room — accelerator	L34	42.7
H Point to Heel point	H30	8.1
H Point travel	L17	4.8
Shoulder room	W 3	58.3
Hip room	W 5	59.7
Upper body opening to ground	H50	43.6

REAR COMPARTMENT

H Point couple distance	L50	30.6
Effective head room	H63	36.3
Min. effective leg room	L51	32.7
H Point to Heel point	H31	10.2
Min. knee room	L48	0.5
Rear Compartment room	L 3	24.4
Shoulder room	W 4	56.7
Hip room	W 6	53.0
Upper body opening to ground	H51	N.A.

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	17.5
Liftover height	H195	22.9
Position of spare tire storage		
Method of holding lid open		Counter Balance — Torsion Bar

STATION WAGON — THIRD SEAT

Shoulder Room	W85	NOT APPLICABLE
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	NOT APPLICABLE
Cargo length at belt — front seat	L204	
Cargo width — wheelbase	W201	
Opening width at belt	W204	
Maximum cargo height	H201	
Rear opening height	H202	
Cargo volume index (cu. ft.) W4 X L204 X H201	Y2	

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (a)

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		
34477 (Std.) 34487 (Std.)	455	4 Bbl.	10.5	390 @ 5000	500 @ 3200	Turbo Hydramatic (Std.) 4-Speed (Opt.) Wide-Ratio 4-Speed (Opt.) Close-Ratio	3.91, (3.08 A/C) 3.91, (3.08 A/C) 3.91, (3.08 A/C)

AMA Specifications—Passenger Car

MAKE OF CAR HURST OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (e)MODEL Hurst Olds.

ENGINE -- GENERAL

Type, no. cyls., valve arr.	90° OHV V-8
Bore and stroke (nominal)	4.125 x 4.250
Piston displacement, cu. in.	455
Bore spacing (C to C)	4.625
No. system	1-3-5-7
(front to rear)	2-4-6-8
Firing order	1-8-4-3-5-6-7-2
Compres. ratio (nominal)	10.5:1
Cylinder Head Material	Cast Iron
Cylinder Block Material	Cast Iron
Cyl. Sleeve-Wet, dry, none	None
Number of	Front
mtg. points	Rear
	Two
	One
Engine installation angle	4° 37'
Taxable $\text{Dia}^2 \times \text{No. Cyl.}$	54.45
horsepower	2.5
Publishing max. bhp*	
@ eng. RPM	390 @ 5000
Publishing max. torque *	
(lb. ft. @ RPM)	500 @ 3200
Recommended fuel	
regular - premium	Premium

ENGINE -- PISTONS

Material	Aluminum Alloy
Description and finish	Autothermic, Cam Grind, Tinplate, Steel Strut
Weight (piston only) oz.	21.094
Clearance (limits)	Top land
	Skirt
	Bottom
	.032 - .043
	.00125 - .0275
	.00075 - .00125
Ring groove depth	No. 1 ring
	No. 2 ring
	No. 3 ring
	No. 4 ring
	.205 - .212
	.205 - .212
	.195 - .202
	- -

* 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 OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (6)MODEL Hurst Olds

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 Ring - Cast Iron with Crowned and Molybdenum Plated O.D. Lower Ring - Cast Iron with Taper O.D. Face.
	Width	.0770 - .0780
	Gap	.010 - .020
Oil	Description - material, coating, etc.	Two Rails - Spring Steel, Black Oxide Finish with Chrome Plated O.D. Spacer - Cold Rolled Spacer Steel
	Width	Rails: .0230 - .0252 Spacer: .1375 - .1335
	Gap	Rails: .015 - .055
Expanders		None

ENGINE - PISTON PINS

Material		SAE #1019 or #1016
Length		2.980
Diameter		.9803 - .9807
Type	Locked in rod, in piston, floating, etc.	Pressed in Rod
	Bush- ing	In rod or piston Material
Clearance	In piston	.0003 - .0005 Loose
	In rod	.0008 - .0016 Press
Direction & amount offset in piston		.060 to R.H. of Cylinder Bore Centerline

ENGINE - CONNECTING RODS

Material		SAE #1140 Steel
Weight (oz.)		1# 14.33 oz. + .2402
Length (center to center)		6.733 - 6.737
Bearing	Material & Type	Moraine 400 (GM 3889 Aluminum) Steel Backed
	Overall length	.821 - .831
	Clearance (limits)	.0004 - .0033
	End play	.002 - .011 2 Rods per Crankpin

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED ^(a)MODEL Hurst Olds

ENGINE - CRANKSHAFT

Material	Nodular Iron (Std.) AISI #1049 Modified (Opt.)		
Vibration damper type	Tuned Rubber		
End thrust taken by bearing (No.)	#3		
Crankshaft end play	.004 - .008		
Main bearing	Material & type	Moraine 400 (GM 3889-M Aluminim) Steel Backed	
	Clearance	1-2-3-4: .005 - .0021 5: .0020 - .0034	
	Journal dia. and bearing overall length	No. 1	3.00 x .975
		No. 2	3.00 x .975
		No. 3	3.00 x 1.194
		No. 4	3.00 x .975
		No. 5	3.00 x 1.624
		No. 6	- -
No. 7		- -	
Dir. & amt. cyl. offset	R.H. Bank .469 to Rear and L.H. Bank .469 Forward of E Engine.		
Crankpin journal diameter	2.4988 - 2.4998		

ENGINE - CAMSHAFT

Location	Center		
Material	GM 6016M Alloy Cast Iron		
Bearings	Material	Moraine 100 - Steel Backed Babbit GM 4167M	
	Number	5	
Type of Drive	Gear or chain	Chain	
	Crankshaft gear or sprocket material	Sintered Iron or Hardened Steel	
	Camshaft gear or sprocket material	Die Cast Aluminum with Nylon Teeth	
	Timing chain	No. of links	48
		Width	.875 (Std.) .844 (Opt.)
		Pitch	.500

ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)	Standard	
Valve rotator, type (intake, exhaust)	None	
Rocker ratio	1.6:1	
Operating tappet clearance (indicate hot or cold)	Intake	None
	Exhaust	None

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (6)MODEL Hurst Olds

ENGINE—VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	40°	
		Closes (°ABC)	88°	
		Duration - deg.	303°	
	Exhaust	Opens (°BBC)	86°	
		Closes (°ATC)	42°	
		Duration - deg.	308°	
Valve opening overlap			82°	
Intake	Material		SAE #1047 Steel	
	Overall length		4.703	
	Actual overall head dia.		2.067 - 2.077	
	Angle of seat & face		30°	
	Seat insert material		None	
	Stem diameter		.3432 - .3425	
	Stem to guide clearance		.0010 - .0027	
	Lift (@ zero lash)		.474	
	Outer spring press. & length	Valve closed (lb.@in.)	76 - 84 @ 1.670	
		Valve open (lb.@in.)	180 - 194 @ 1.270	
	Inner spring press. & length	Valve closed (lb.@in.)	Damper	
		Valve open (lb.@in.)	---	
	Exhaust	Material		GM #A82152 Steel
Overall length		4.695		
Actual overall head dia.		1.629 - 1.619		
Angle of seat & face		45° Seat 46° Face		
Seat insert material		None		
Stem diameter		.3427 - .3420		
Stem to guide clearance		.0015 - .0032		
Lift (@ zero lash)		.474		
Outer spring press. & length		Valve closed (lb.@in.)	76 - 84 @ 1.670	
		Valve open (lb.@in.)	180 - 194 @ 1.270	
Inner spring press. & length		Valve closed (lb.@in.)	Damper	
		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	Pressure
	Timing gear or chain	Pressure
	Cylinder walls	Pressure

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (0)

MODEL Hurst Olds

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. engine rpm)	35 - 50 @ 1500 RPM
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.)	4
Oil grade recommended (SAE viscosity and temperature range)	Above 32°F - SAE 10W30, SAE 20W Below 32°F - SAE 10W30, SAE 10W Below 0°F - SAE 5W20, SAE 5W
Engine Service Reqmt. (MM, MS, etc.)	MS

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	Two Straight Thru Mufflers & Resonator
Exhaust pipe dia. (O.D., wall thick.)	Branch Main
Tail pipe dia. (O.D. & wall thickness)	2.25 x .076 2.25 x .060

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard Optional	Positive Crankcase Ventilation None
Control Unit	Make and model	AC Ventilation Valve CV-679C
	Location	Valve 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)	Intake Manifold and Air Cleaner
	Air inlet (breather cap, carburetor air cleaner, other)	Ventilation Filter Located in Air Cleaner
	Flame arrestor (screen, check valve, other)	Check in Ventilation Valve

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (e)

MODEL Hurst Olds

ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Engine Modification *	
Air Injection Pump	Type	None	
	Displacement		
	Drive ratio		
	Drive type		
	Relief valve (type)		
Filter (describe)			
Air Injection System	Air distribution (head, manifold, etc.)	None	
	Point of entry		
	Injection tube I.D.		
	Check valve type		
Backfire protection (type)			
Carburetor	Make	Standard	
	Model		
	Barrel size		
	Idle speed	Drive	
		Neutral	
Idle A/F mixture		None	
Aux. Adv. Systems (type)		Standard	
Distributor	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		Ported	
Timing - Crank degrees @ rpm		Standard	
Cooling System (describe changes)		None	
Exhaust System (describe changes)		None	

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (w)

MODEL Hurst Olds

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.)	20	
	Filler location	Behind License Plate Rear Bumper	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	R.F. on Block	
	Pressure range	5 1/2 - 7 psi	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Paper and Saran Type	
	Locations	Carburetor and Fuel Tank	
Carburetor	Choke type		Automatic
	Intake manifold heat control (exhaust or water)		Exhaust
	Air cleaner type	Standard Optional	Oil Wetted Paper Element (Temperature Controlled) with external cold air intake
	Idle speed (spec. neutral or drive)	Manual	725 N
Automatic		725 DR	
	Idle A/F mix.	N.A.	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
34477 (Standard) 34487	455	Fully Synch. 3-Speed 4-Speed Turbo Hydra-Matic	Rochester	4 MV	1	Prim 1 3/8 Sec. 2 1/4

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (a)

MODEL _____ Hurst, Olds

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure	
Radiator cap relief valve pressure		15 psi	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at (°F)	195°	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM @ 1000 pump rpm	22	
	Number of pumps	1	
	Drive (V-belt, other)	V-Belt	
Bearing type		Ball	
By-pass recirculation type (inter., ext.)		External	
Radiator core type (cellular, tube and fin, other)		Tube and Center	
Cooling system capacity	With heater (qt.)	16.2	
	Without heater (qt.)	15.5	
	Opt. equipment-specify (qt.)	17.2 A/C	
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
	Upper	Number and type (molded, straight)	One Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	One Molded
		Inside diameter	.765 - .703
Fan	Number of blades & spacing		6 staggered
	Diameter		18.00
	Ratio-fan to crankshaft rev.		.9083:1 (non A/C) 1.22:1 (A/C)
	Fan cutout type		Clutch
	Bearing type		Ball
* Drive belts (indicate belt used by letter)	Fan		A (non A/C) B (A/C)
	Generator or alternator		A (non A/C) B (A/C)
	Water Pump		A (non A/C) B (A/C)
	Power Steering		C (non A/C) D (A/C)
	Air Conditioning		E

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°						
Nominal length (SAE)	51.50	57.23	44.11	45.19	59.70						
Width	.380	.380	.380	.380	.380						

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED ^(e)

MODEL Hurst Olds

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco Remy - 1980036
	Voltage Rtg. & Total Plates		12V-66
	SAE Designation & Amp. Hr. Rtg.		25TA - 70 AMP Hr.
	Location		Engine Compartment - Front L.H. Side
	Terminal grounded		Negative
Generator or Alternator	Make		Delco Remy
	Model		1100767
	Type and rating		Diode Rectifying 37 AMP
	Output at engine idle (neutral)		9 AMP's
	Ratio—Gen. to Cr/s rev.		2.56
Regulator	Make		Delco Remy
	Model		1119515
	Type		Vibrating Contact
	Cutout relay	Closing voltage at generator rpm	None
		Reverse current to open	None
	Regu- lated	Voltage	13.5 - 14.4
		Current	Self-Regulating
	Voltage test conditions	Temperature	120° F
Load		Less than 10 AMP	
Other		Upper Contacts	

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco Remy
	Model		1108333
	Rotation (drive end view)		Clockwise
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		3 & 4 Speed - Place gear shift lever in neutral and depress clutch to floor. Turbo Hydra-Matic - Place shift lever in park. *
Motor Drive	Engagement type		Solenoid Overrunning Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	Manual
	Auto.		166
	Flywheel tooth face width	Manual	438
Auto.		438	

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISID (*)

MODEL

Hurst Olds

ELECTRICAL - IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.		Standard	
	Transistorized - Std., Opt., N.A.		Optional	
	Other (specify)		- -	
Coil	Make		Delco Remy	
	Model		1115216	
	Amps	Engine stopped	4.0	
		Engine idling	2.0	
Distributor	Make		Delco Remy	
	Model		1111468	
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)		0° - 2° @ 850 RPM
		Intermediate points deg.@rpm		14° - 18° @ 2000 RPM
		Max. deg.@rpm		20° - 24° @ 4000 RPM
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)		0° - 3° @ 9 In. Hg.
		Intermediate points, deg.@in. Hg.		0 - 3.5 @ 11 In. Hg. 0 - 6.5 @ 12 In. Hg. 8 - 14.5 @ 15 In. Hg.
		Max. deg. in. Hg.		14.5 - 18 @ 17.7 In. Hg.
		Breaker gap (in.)		.016
	Cam angle (deg.)		29° - 31°	
Brooker arm tension (oz.)		19 - 32		
Timing	Crankshaft deg.@rpm		7 1/2° @ 850 RPM	
	Mark location		Balancer Assembly	
Spark Plug	Make		AC	
	Model		AC 44S	
	Thraad (mm)		14 mm	
	Tightening torque (lb. ft.)		30	
Gap		.030		
Cable	Conductor type		Resistance	
	Insulation type		Neoprene	
	Spork plug protector		Hypolon	

ELECTRICAL - SUPPRESSION

Locations & type *

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED ^(*)

MODEL Hurst Olds

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	AC
	Trip odometer (yes,no)	No
Charge indicator—type		Indicator Lamp
Temperature indicator—type		Indicator Lamp
Oil pressure indicator—type		Indicator Lamp
Fuel indicator—type		Gauge
Other		Indicator Lamp
Wind-shield wiper	Type—Standard	2-Speed Electric
	Type—Optional	--
Wind-shield washer	Type—Standard	Push Button
	Type—Optional	--
Horn	Type	Vibrating
	Number used	2
	Amp draw (each)	5.2 - 5.7

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Borg & Beck Single Plate
Type pressure plate springs		Belleville Spring
Total spring load (lb.)		2450 - 2750 Assemblies
No. of clutch driven discs		One
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	11.0 x 6.5
	Total eff. area (sq.in.)	123.7
	Thickness	One .135 and one .150
	Engagement cushioning method	Flat Springs
Release bearing	Type & method of lubrication	Ball Permanent
Torsional damping	Methods: springs, friction material	Coil Spring - Steel Friction

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED ^(a)

MODEL _____ Hurst Olds

DRIVE UNITS – TRANSMISSIONS

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

DRIVE UNITS – MANUAL TRANS.

		Wide	Close	
Number of forward speeds		4		
Transmission ratios	In first	2.52	2.20	
	In second	1.88	1.64	
	In third	1.46	1.28	
	In fourth	1.00	1.00	
	In reverse			
Synchronous meshing, specify gears		1-2-3-4-	1-2-3-4	
Shift lever location		Column		
Lubricant	Capacity (pt.)	4.90		
	Type recommended	Multipurpose		
	SAE viscosity number	Summer	80 or 90	
		Winter	80 or 90	
		Extreme cold	80 or 90	

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)	NOT AVAILABLE		
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			

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED ^(a)

MODEL Hurst Olds

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Turbo Hydra-Matic					
Type describe	3 Speed Torque Converter					
Selector location	Lever-Console Mounted					
List gear ratios Selector Pattern and indicate which are used in each selector position	P	R	N	D	S	L
	Park	Reverse	Neutral	Drive	Super	Low
	---	2.08	---	2.48	2.48	2.48
	---	----	---	1.48	1.48	----
	---	----	---	1.00	----	----
Max. upshift speed—drive range	1-2 45-50 MPH		2-3 79-84 MPH			
Max. kickdown speed—drive range	2-1 28-33 MPH		3-2 68-73 MPH			
Torque convertor	Number of elements					
	3					
	Max. ratio at stall					
2.30 Fixed Stator						
Type of cooling (air, liquid)						
Water						
Nominal diameter						
13.6						
Lubricant	Capacity—refill (pt.)					
	8					
Type recommended						
Dexron						
Special transmission features	Part throttle 302 downshift up to 45 MPH to provide added performance.					

DRIVE UNITS – PROPELLER SHAFT

Number used	One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Exposed	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	3.25 dia. x 60.00 x .065
	Manual 4-speed trans.	3.25 dia. x 60.00 x .065
	Overdrive transmission	N.A.
	Automatic transmission:	3.25 dia. x 60.00 x .065

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

(Continued)

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (*)

MODEL _____ Hurst Olds _____

DRIVE UNITS — PROPELLER SHAFT (cont.)

Inter- mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	None
Slip Yoke	Type	Involute Spline
	Number of teeth	28
	Spline O.D.	1.211
Universal joints	Make and Mfg. No.	Saginaw Steering Gear
	Number used	2
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Prepack
Drive taken through (torque tube or arms, springs)		Arms
Torque taken through (torque tube or arms, springs)		Arms

DRIVE UNITS — AXLE

Type (front, rear)		Rear	
Description		Salisbury Live Hypoid - Semi - Floating	
Limited Slip differential, type		Multiple Plate Clutch - "S" Shaped Preload Spring	
Drive Pinion Offset		1.75	
No. of differential pinions		2	
Pinion adjustment (shim, other)		Shim	
Pinion bearing adj. (shim, other)		Coll. Spacer	
Wheel bearing type		Ball	
Lubricant	Capacity (pt.)	3.69	
	Type recommended	GM 4744-M (std), Mobile XRP 464BD-M (L.S.)	
	SAE vis- cosity number	Summer	80-90
		Winter	80-90
		Extreme cold	80-90

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.08	3.23	3.42	3.91
No. of teeth	Pinion	13	13	12	11
	Ring gear	40	42	41	43
Ring Gear O.D.		8.560	8.555	8.552	8.543

AMA Specifications—Passenger Car

MAKE OF CAR OLDEMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED ⁽⁹⁾MODEL Hurst Olds

DRIVE UNITS—WHEELS

Type & material		Welded Wheel
Rim (size & flange type)	Std.	14 x 6JK
	Opt.	N.A.
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5 Studs 7/16 Dia.

MODEL _____

DRIVE UNITS—TIRES

Standard	Size, ply rating, & ply		G70-14
	Type (bias, radial, etc.)		Bias
	Full rated Inflation Press.	Front	24
		Rear	24
	Rev./Mile at 50 MPH		775
Optional	Size, ply rating, & ply		205R14 Radial Ply (Optional on 2-Bbl.) 7.75 x 14 Nylong

BRAKES—PARKING

Type of control		Suspended Pedal
Location of control		Left Drivers Compartment
Operates on		Rear Brake
If separate from service brakes	Type (internal or external)	Not Separate
	Drum diameter	Not Separate
	Lining size (length x width x thickness)	Not Separate

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED ^(a)

MODEL _____ Hurst Olds

BRAKES—SERVICE

Type (drum or disc)		Disc Front		Drum Rear			
Self adjusting (std., opt., N.A.)				Standard			
Power brake make & type (remote, int., etc.)	Std.			Standard			
	Opt.			Delco Moraine - Integral			
Effective area (sq. in.)*		40.6		66.1			
Gross lining area (sq. in.)**		44.8		69.4			
Swept area (sq. in.)***		206.4		142			
Percent brake effectiveness—front		68					
Drum or Disc	Diameter (nominal)	Front	11.00				
		Rear			9.50		
	Type and material		Rotor Cast Iron		Drum Composite		
	Disc (vented or solid)		Vented				
No. pistons per caliper		One					
Wheel cyl. inder bore	Front	2.06					
	Rear			.81			
Master Cylinder	Bore		1.125				
	displacement distribution	Front %	75				
		Rear %	25				
Disc Brk. Valve	Type (proportion, delay, metering, other)		Proportion				
Pedal arc ratio		3.5					
Line pressure at 100 lb. pedal load		960					
Shoe clearance adjustment		.001		.015 per shoe			
Brake lining	Drum or Disc		Disc Front		Drum Rear		
	Bonded or riveted		Riveted		Riveted		
	Front Wheel	Material		Johns-Manville 2000B-44			
		Size (length x width x thickness)	Prim. or out-board	6.0 x 1.83 x .38			
			Second. or in-board	6.0 x 1.83 x .38			
	Segments per shoe		One				
	Rear Wheel	Material				Marshall Pri. H3144; Sec H3152F	
Size (length x width x thickness)		Prim. or out-board	7.48 x 2.0 x .166				
		Second. or in-board	9.88 x 2.0 x .231				
Segments per shoe				One			

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

*** Total swept area for four brakes. (Width: lining contact width for each brake x its contact circumference.)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (e)

MODEL Hurst Olds

STEERING

Manual (std., opt., NA)		Standard		
Power (std., opt., NA)		Optional		
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt-a-way		
	(std., opt., NA)	Optional		
Wheel diameter	Manual	16.0		
	Power	16.0		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	43.3	
		Curb to curb (l. & r.)	40.0	
	Inside rear	Wall to wall (l. & r.)	23.4	
		Curb to curb (l. & r.)	24.2	
Outside whl. angle with inside whl. at 20°			18.8	
Manual	Gear	Type	Ball Nut	
		Make	Saginaw Steering Gear	
		Ratios	Gear	24.0:1
			Overall	28.3:1
No. wheel turns			5.56 Lock to Lock	
Power	Type (coaxial, linkage, etc.)		Gear Integral	
	Make		Saginaw Steering Gear	
	Gear	Type	Gear Integral	
		Ratios	Gear	17.5:1
			Overall	20.7:1
	Pump driven by		Belt from Crank	
Number wheel turns		4.3 Lock to Lock		
Linkage	Type		Parallelogram	
	Location (front or rear of wheels, other)		Front	
	Drag link (trans. or longit.)		Transverse	
	Tie rods (one or two)		Two	
Steering Axis	Inclination at camber (deg.)		9° at +1° Camber	
	Bearings (type)	Upper	Ball Joint	
		Lower	Ball Joint	
		Thrust	Ball Joint	
	Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		Range - 3/4 to -1 3/4
Camber (deg.)		Range - 1/4 to +1/2		
Toe-in (outside track inches)		.12 to .24		
Steering spindle & joint type			Ball Joint	
Wheel Spindles	Diameter	Inner bearing	1.2497 - 1.2492	
		Outer bearing	.7496 - .7491	
	Thread size		3/4 - 20	
	Bearing type		Tapered Roller	

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (e)MODEL Hurst Olds

SUSPENSION—GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	None	
Provision for brake dip control	Counter Dive Design of Suspension	
Provision for acc. squat control	Rear Suspension Upper Control Arms	
Special provisions for car jacking	None	
Shock absorber front & rear	Type	Direct Acting
	Make	Delco
	Piston dia.	1.00
Other special features	Rear Stabilizer Bar	

SUSPENSION—FRONT

Type and description		Independent Coil Spring
Spring	Type	Coil
	Material	SAE 9260
	Size (coil design height & I.D. bar length x dia.)	11.3 Design Height x 3.60 I.D. 109.0 Long x .629 Dia.
	Spring rate (lb. per in.)	435
	Rate at wheel (lb. per in.)	158
Stabilizer	Type (link, linkless, frameless)	Link .812
	Material & bar diameter	SAE 1070 .937 Dia.

SUSPENSION—REAR

Type and description		Link Coil Spring
Drive and torque taken through		Arms
Spring	Type	Coil
	Material	SAE 9260
	Size (length x width, coil design height & I.D.; bar length & dia.)	7.62 Design Height x 5.50 I.D. 96.2 Long x .540 Dia.
	Spring rate (lb. per in.)	122
	Rate at wheel (lb. per in.)	109.4
	Mounting insulation type	Rubber
	If leaf	No. of leaves
	Shackle (comp. or tens.)	N.A.
Stabilizer	Type (link, linkless, frameless)	Linkless
	Material	SAE 1070 .875 Dia.
Track bar type		---

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED (o)

MODEL _____ Hurst Olds

FRAME _____

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

Channel Section Side Rail
4 Cross Bar (Guard Beam Frame)

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		Instrument Panel (L.H.)
Engine No. location		Left Front Engine Block
Theft protection - type		Key Type Starting
Vent window control method (crank, friction pivot)	Front	Crank
	Rear	None
Seat cushion type	Front	Zig Zag
	Rear	Zig Zag
	3rd seat	None
Seat back type	Front	Zig Zag
	Rear	Zig Zag
	3rd seat	None
Windshield glass type (i.e., single curved - laminated plate)		Single Curved - Laminated Plate
Side glass type (i.e., curved - tempered plate)		Curved - Tempered Plate
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Compound Curved - Tempered Plate
Windshield glass exposed surface area		1330.1
Side glass exposed surface area		1545.3
Backlight glass exposed surface area		1105.5
Total glass exposed surface area		3980.9

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 3-1-68 REVISED ^(a)

MODEL _____ Hurst Olds

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional
	Vent windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability)		Optional
Reclining front seat back (R-L or both)		Optional - Right Only
Front seat head restrainer (R-L or both)		Both
Radios (specify type as well as availability)		Deluxe & AM-FM Optional
Rear seat speaker		Optional
Power antenna		Optional
Clock		Optional
Air conditioner (specify type and availability)		Frigidaire
Speed warning device		Optional
Speed control device		Optional
Ignition lock lamp		N.A.
Dome lamp		Standard
Glove compartment lamp		Optional
Luggage compartment lamp		Optional
Underhood lamp		N.A.
Courtesy lamp		Optional (Standard on Convertible)
Map lamp		Optional (Standard on Convertible)
Auto. trans. quad. lamp		Optional
Cornering light lamp		N.A.
Dual Brake Warning		Standard
Anti Theft Warning		Standard
Hazzard Flashed		Standard

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	24.90
		Lowest	24.80
	Tail	Highest	23.85
		Lowest	23.79
Sidemarker	Front	72.20	
	Rear	25.06	
Distance from C/L of ccr to center of bulb	Headlamp	Inside	16.50
		Outside *	30.18
	Tail	Inside	19.36
		Outside	28.36
	Directional	Front	32.02
		Rear	-----

* If single headlamps are used enter here.

