AMA-40A

AMA Specifications – Passenger Car

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MANUFACTURER	CAR NAME	
OLDSMOBILE	OLDSMOBILE F-85-442 Option	
MAILING ADDRESS	MODEL YEAR	ISSUED: 5-22-64
LANSING, MICHIGAN 48921	1964	REVISED (•)

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

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

BODY TYPE	NO. OF PASSENGERS	STANDARD	DELUXE	CUTLASS
2 Door Pillar Coupe	5	3027		3227
2 Door Hardtop Coupe	5	-	-	3237
4 Door Sedan	6	3069	3169	-
2 Door Convertible	5	-	-	3267

All other information not reported in this supplement is identical with F-85 specification.

AMA Specifications — Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED(•) _____

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	442 OPTION	
Wheelbase (L101)		23	115"	
Tread	Front (W101)	22	58.0	
	Rear (W102)	22	58.0	
Maximum Overall Dimensions	Length (L103)	23	203"	
	Width (W103)	22	73.8"	
	Height (H101)	24	54.0"	53.7
Transmission—(Specify trade name - opt., not available)	Manual	15	4 Speed Syncromesh	
	Overdrive	16	N.A.	
	Automatic	16	N.A.	
Axle ratio	Manual	17	3.36	
	Overdrive	17	N.A.	
	Automatic	17	N.A.	
Tire size		18	7.50 x 14	
Engine	Type, no. cyl., valve arr.	2	90° V/8 - O.H.V.	
	Fuel system (Carb., other)	8	Carburetor	
	Bore and stroke	2	3.9375 x 3.3850	
	Piston displ., cu.in.	2	330	
	Std. compression ratio	2	10.25:1	
	Max. bhp at engine rpm	2	310 @ 5200	
	Max. torque at rpm	2	355 @ 3600	

AMA Specifications–Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1964 **DATE ISSUED** 5-22-64 **REVISED** (•)

MODEL 442 OPTION

ENGINE—GENERAL

Type, no. cyls., valve arr.		90° V-8 O. H. V.
Bore and stroke (nominal)		3.9385 x 3.385
Piston displacement, cu. in.		330
Bore spacing (C/L to C/L)		4.625
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)		10.25:1
Cylinder Head Material		Cast Iron
Cylinder Block Material		Cast Iron
Cylinder Sleeve-Wet, dry, none		None
Number of mounting points	Front	Two
	Rear	One
Engine installation angle		4° 37'
Taxable horsepower $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$		49.6
Published max. bhp* @ eng. RPM		310 @ 5200
Published max. torque* (lb. ft. @ RPM)		355 @ 3600
Recommended fuel regular - premium		Premium
Idle speed (spec. neutral or drive)	Manual	600
	Automatic	N. A.

ENGINE—PISTONS

Material			Aluminum Alloy
Description and finish			Autothermic, Cam Grind, Tin Plate, Steel Strut
Weight (piston only) oz.			20.670
Clearance (limits)	Top land		.0275 - .0325
	Skirt	Top	.00075 - .00225
		Bottom	.00075 - .00125
Ring groove depth	No. 1 ring		.2035 - .2105
	No. 2 ring		.2035 - .2105
	No. 3 ring		.1955 - .2025
	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 OLDSMOBILE **MODEL YEAR** 1964 **DATE ISSUED** 5-22-64 **REVISED** (•)

MODEL 442 OPTION

ENGINE—CRANKSHAFT

Material			A. I. S. I. #1049 Modified
Vibration damper type			Rubber Absorption
End thrust taken by bearing (No.)			Three
Crankshaft end play			.004 - .008
Main bearing	Material & type		Moraine M-400 Aluminum Steel Backed
	Clearance		#1-2-3-4; .0005 - .0021 #5 - .0015 - .0031
	Journal dia. and bearing overall length	No. 1	2.50 x .975
		No. 2	2.50 x .975
		No. 3	2.50 x 1.010
		No. 4	2.50 x .975
		No. 5	2.50 x 1.624
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset		None
Crankpin journal diameter			2.12

ENGINE—CAMSHAFT

Location			Center
Material			Alloy Cast Iron
Bearings	Material		Steel Backed G. M. 4195-M Babbitt
	Number		5
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		S. A. E. 1118, 1140, 1141, 1146, G. M. 85M Steel or A. S. T. M. B-310 Sintered Iron
	Camshaft gear or sprocket material		S. A. E. 308 Aluminum with Nylon Teeth Optional: Cast Iron
	Timing chain	No. of links	48
		Width	.750
		Pitch	.500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard
Valve ratator, type (intake, exhaust)		None
Rocker ratio		1.6:1
Operating tappet clearance (indicate hot or cold)	Intake	None
	Exhaust	None
Timing marks on flywheel, damper, other		Camshaft Sprocket & Crankshaft Sprocket

(Continued)

AMA Specifications–Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED (*)

MODEL 442 OPTION

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	21
		Closes (°ABC)	77
		Duration - deg.	278
	Exhaust	Opens (°BBC)	71
		Closes (°ATC)	31
		Duration - deg.	282
	Valve opening overlap		52
Intake	Material		S. A. E. 1041, 1047 Steel
	Overall length		4.740
	Actual overall head dia.		1.875
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		.3432 - .3425
	Stem to guide clearance		.0010 - .0027
	Lift (@ zero lash)		.432
	Outer spring press. and length	Valve closed (lb. @ in.)	80 @ 1.600
		Valve open (lb. @ in.)	200 @ 1.200
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper
		Valve open (lb. @ in.)	-
Exhaust	Material		G. M. N82152 Steel
	Overall length		4.728
	Actual overall head dia.		1.562
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		.3427 - .3420
	Stem to guide clearance		.0015 - .0032
	Lift (@ zero lash)		.432
	Outer spring press. and length	Valve closed (lb. @ in.)	80 @ 1.600
		Valve open (lb. @ in.)	200 @ 1.200
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper
		Valve open (lb. @ in.)	--

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	
	Connecting rods	
	Piston pins	
	Camshaft bearings	
	Tappets	
	Timing gear or chain	
	Cylinder walls	

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED (•)

MODEL	3000 V-8	3100 V-8	3200 V-8
ENGINE—LUBRICATION SYSTEM (cont.)		442 OPTION	
Oil pump type		Gear	
Normal oil pressure (lb. @ engine rpm)		35-45 @ 50 MPH	
Oil pressure sending unit (elect. or mech.)		Electric	
Type oil intake (floating, stationary)		Stationary	
Oil filter system (full flow, partial, other)		Full Flow	
Filter replacement (element, complete)		Complete	
Capacity of crankcase, less filter-refill (qt.)		4 Qts.	
Oil grade recommended (SAE viscosity and temperature range)		Above 32° F - SAE 10W30, SAE 20W Below 32° F & Above 0° F - SAE-5W20, SAE-10W Below 0° F - SAE-5W20, SAE - 5W	
Engine Service Requirement (MM, MS, etc.)			

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Dual	
Muffler No. & type (reverse flow, straight thru, separate resonator)		Reverse Flow	
Exhaust pipe dia. (O.D. & wall thickness)	Branch		
	Main	.076 x 2.25 R.H.	2.00 x .076 L.H.
Tail pipe diameter (O.D. & wall thickness)		.048 x 2.00 R.H.	1.75 x .048 L.H.

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Positive Crankcase Ventilation	
	Optional		
Control unit	Make and model	AC Valve	
	Location	Valve Cover	
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum and Carburetor Air	
	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)	Carburetor Air Cleaner	
	Flame arrestor (screen, check valve, other)	Check Valve and Screen	

AMA Specifications– Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED (•)

MODEL 442 OPTION

ENGINE—FUEL SYSTEM

(See Supplement to Page 8 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.			Carburetor
Fuel Tank	Capacity (gals.)		20
	Filler location		Rear Bumper except Wagons Left Rear Quarter
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Right Front on Block
	Pressure range		7 3/4 - 9 PSI
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		Sintered Bronze & Saran Type
	Locations		Carburetor & Fuel Tank
Carburetor	Choke type		Automatic
	Intake manifold heat control (exhaust or water)		Exhaust
	Air clnr. type	Standard	Paper
		Optional	None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
3000 & 3100 Std.	330	S. M. T. & Jetaway	Rochester	2 GC	1	1 7/16
3200 Std. & 3000 & 3100 Opt.	330	S. M. T. & Jetaway	Rochester	4 GC	1	Prim. 1 7/16 Sec. 11/16

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED (•)

MODEL 442 OPTION

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure
Radiator cap relief valve pressure			15 PSI
Circulation thermostat	Type (choke, bypass)		By Pass
	Starts to open at (°F)		180°
Water pump	Type (centrifugal, other)		Centrifugal
	GPM @ 1000 pump rpm		18
	Number of pumps		1
	Drive (V-belt, other)		V-Belt
	Bearing type		Ball
By-pass recirculation type (internal, external)			External
Radiator core type (cellular, tube and fin, other)			Tube & Center
Cooling system capacity	With heater (qt.)		16.9
	Without heater (qt.)		16.2
	Opt. equipment-specify (qt.)		19.3 A/C
Water jackets full length of cylinder (yes, no)			Yes
Water all around cylinder (yes, no)			Yes
Radiator hose	Lower	Number and type (molded, straight)	1 Molded
		Inside diameter	1.75
	Upper	Number and type (molded, straight)	1 Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	1 Molded
		Inside diameter	.75
Fan	Number of blades & Spacing		4 @ 76°
	Diameter		17.25
	Ratio-fan to crankshaft rev.		.85
	Fan cutout type		Clutch A/C Only
	Bearing type		Ball
*Drive belts (indicate belt used by letter)	Fan		36° x 49" x .380
	Generator		Same Belt
	Water Pump		Same Belt
	Power Steering		36° x 59.5 x .380
	Air Conditioning		36° x 58.5 x .380

* Drive Belt Dimensions	
Angle of V	
Nominal length (SAE)	
Width	

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1964 **DATE ISSUED** 5-22-64 **REVISED**(e)

MODEL 442 OPTION

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco Remy 1980558
	Voltage Rtg. & Total Plates		12V - 66 Plates
	SAE Designation & Amp Hr. Rtg		25 MD - 61 Amp Hr.
	Location		Engine Compartment - Front Left Hand Side
	Terminal grounded		Negative
Generator	Make		Delco Remy
	Model		1100656
	Type		Self Rectifying AC
	Ratio—Gen. to Cr/s rev.		2.33
	Gen. cut-in (hot)—engine rpm		Charge on Idle
Regulator	Make		Delco Remy
	Model		1119515
	Type		Vibrating Contact
	Cutout relay	Closing voltage @ generator rpm	None
		Reverse current to open	None
	Regulated	Voltage	13.5 - 14.4
		Current	None - Self Regulating
	Voltage test conditions	Temperature	120° F
		Load	Less than 10 Amps
		Other	Upper Contacts

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco Remy
	Model		1107330
	Rotation (drive end view)		Clockwise
	Engine cranking speed		15°
	Test conditions		80° F
	Lock test	Amps	Not Specified
		Volts	Not Specified
		Torque (lb. ft.)	Not Specified
	No load test	Amps	110 to 140
		Volts	10.6
		RPM (min.)	3900
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Turn Ignition Switch against Spring Load to Full Clockwise Position. Cars with Automatic Transmissions must be on Park or Neutral to Start.

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1964 **DATE ISSUED** 5-22-64 **REVISED** (•)

MODEL 442 OPTION

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solenoid with Overrunning Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	166
	Flywheel tooth face width		438

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco Remy
	Model		1115191 T-3153-A
	Amps	Engine stopped	6.0 at 12V (75° Winding Temp)
		Engine idling	1.35
Distributor	Make		Delco Remy 1111048
	Model		
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0° - 2° @ 650 RPM
		Intermediate points deg. @ rpm	15° - 19° @ 2050 RPM
		Max deg. @ rpm	24° - 28° @ 4000 RPM
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0° @ 7 in HG
		Intermediate points, deg @ in Hg	2.5° - 8.2° @ 10 in. HG 9.4° - 15.2° @ 13 in. HG 16.5° - 20.0° @ 16.7 in. HG
		Max. deg. in. Hg.	21.5° @ 25 in. HG
	Breaker gap (in.)		.016
	Cam angle (deg.)		28 - 32
	Breaker arm tension (oz.)		19 - 23
Timing	Crankshaft deg. @ rpm.		7 1/2° @ 850 R.P.M
	Mark location		Vibration Damper
	Cylinder numbering system (see page 2)		Right Bank 2-4-6-8 Left Bank 1-3-5-7
	Firing order (see page 2)		1-8-4-3-6-5-7-2
Spark Plug	Make and model		AC 44S
	Thread (mm)		14MM
	Tightening torque (lb. ft.)		30
	Gap		.030
Cable	Conductor type		Resistance
	Insulation type		Neoprene
	Spark plug protector		Hypolon

ELECTRICAL—SUPPRESSION

Locations & type	Resistance Core Sparkplug Leads & Coil Leads. Bypass Condensers at Alternator, Regulator, & Coil on Radio Equipped Cars.

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED (•)

MODEL 442 OPTION

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Ind. Lamp
Temperature indicator—type		Ind Lamp
Oil pressure indicator—type		Ind. Lamp
Fuel indicator—type		Gage
Other	Hi Beam	Ind Light
Ignition switch	Identify positians in order and circuits controlled	1. Accessory & Battery Ignition Off 2. Off - Locked 3. Off - Not Locked 4. Ignition - Battery & Accessory On 5. Ignition - Battery & Solenoid On, Accessory Off
	Provisian for illumination	Yes
	Location	Instrument Panel Right of Driver
Main lighting switch	Identify positions and lamps controlled Rotate Control Control Full Counter Clockwise	1. Park, Instrument, Tail & License Lights 2. Headlamps, Instrument Tail & License Lights Dims Instrument Lights Courtesy Lights
Other light switches	Locations and lamps controlled Foot Dimmer	On Left Hand Toe Pan Controls Headlights Hi & Low Beam
Other switches	Locations and devices controlled W/S Wiper Heater Power Top Electric Antenna	Left of Driver on Instrument Panel Right of Driver on Instrument Panel Right of Driver on Dash Grille Right of Driver on Dash Grille
Windshield wiper	Make	Delco Appliance Div.
	Type	Electric Single Speed
	Vacuum booster provision	No
	Washer provision	Yes
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	5.2 - 5.7

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED (•)

MODEL 442 OPTION

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Own, Single Plate
Type pressure plate springs		Flat
Effective plate pressure (lb.)		2050
No. of clutch driven discs		1
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	10.4 x 6.5
	Total eff. area (sq.in.)	153.5
	Thickness	.135
	Engagement cushioning method	Flat Springs
Release bearing	Type & method of lubrication	Ball - Permanent
Torsional damping	Methods: springs, friction material	Coil Springs - Steel

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard 4 Speed
Manual with overdrive (std. or opt.)	N. A.
Automatic (std. or opt.)	N. A.

DRIVE UNITS—MANUAL TRANSMISSION

			Std.
Number of forward speeds			4
Transmission ratios	In first		2.56
	In second		1.91
	In third		1.48
	In fourth		1.
	In reverse		2.64
Synchronous meshing, specify gears			1, 2, 3 & 4
Shift lever location			Floor
Lubricant	Capacity (pt.)		2.25
	Type recommended		Multi-Purpose
	SAE viscosity number	Summer	80 or 90
		Winter	80
		Extreme cold	80

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED (•)

MODEL	3000	3100	3200

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		
Type describe		
Method of Selection (Lever, Push Button or other)		
Selector Pattern		
List gear ratios Selector Pattern and indicate which are used in each selector position		NOT AVAILABLE
Max. upshift speeds—drive range		
Max. kickdown speeds—drive range		
Tarque convertor	Number of elements	
	Max. ratio at stall	
	Type of cooling (air, water)	
Lubricant	Capacity—refill (pt.)	
	Type recommended	
Special transmission features		

DRIVE UNITS—PROPELLER SHAFT

Number used		One
Type (exposed, torque tube)		Exposed
Outer diameter x length* x wall thickness	Manual transmission	3.25 Dia. x 60.00 x .065
	Overdrive transmission	N. A.
	Automatic transmission	N. A.

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

(Cantinued)

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED (•)

MODEL 442 OPTION

DRIVE UNITS—PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		None
Universal joints	Make		Saginaw Steering
	Number used		2
	Type (ball and trunnion, cross, other)		Cross
	Bearing	Type (plain, anti-friction)	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—REAR AXLE

Description (see instructions)			Spicer Type - Hypoid - Semi-Floating
Limited Slip differential, type			Cone Clutch
Drive Pinion Offset			1.50
No. of differential pinions			2
Gear ratios (Std. equip.)	Manual transmission		3.36
	Overdrive transmission		N. A.
	Automatic transmission		N. A.
Ring gear O.D. (std. ratio)			8.12
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other)			Coll. Spacer
Wheel bearing type			Ball
Lubricant	Capacity (pt.)		2.75
	Type recommended		Multi-Purpose Mil - L - 2105B
	SAE viscosity number	Summer	90
		Winter	90
		Extreme cold	90

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.36:1
No. of teeth	Pinion	11
	Ring gear	37

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED (e)

MODEL			3000	3100	3200
DRIVE UNITS—WHEELS					
Type & material			Welded Wheel		
Rim (size and flange type)		Std.	14 x 6 JK		
		Opt.	N. A.		
Attachment	Type (bolt or stud)		Stud		
	Circle diameter		4.75"		
	Number and size		5 Studs 7/16" Dia.		
DRIVE UNITS—TIRES			7.50 x 14 - 4 Ply	4 Ply Rating Red Streak	
Standard (List option below)	Size & ply				
	Type - Nylon, etc.		Nylon		
Rev/mile at 50 mph.			781		
Inflation press.(cold)	Front		24	24	24
	Rear		24	24	24
Optional tires - size and ply					
BRAKES—SERVICE					
Type (duo-servo, disc, balanced, etc.)			Duo Servo		
Self adjusting (std., opt., N.A.)			Self Adjusting Standard		
Hydraulic system type (single, dual, etc.)			Single		
Power brake make & type (remote, integral, etc.)			Integral		
Effective area (sq. in.)*			155.6		
Gross lining area (sq. in.)**			156.3		
Swept drum area (sq. in.)***			267.8		
Percent brake effectiveness—front			55%		
Drum	Diameter	Front	9 1/2 Inches		
		Rear	9 1/2 Inches		
	Type and material		Centrifugal Cast & Composite Option on Rears		
Wheel cylinder bore	Front		1 1/16 Inches		
	Rear		15/16 Inches		
Master cylinder bore			1.0 Inches		
Available pedal travel			6.70 Manual	4.00 Power	
Line pressure at 100 lb. pedal load			.710 PSI Manual	725 PSI Power	
Shoe clearance adjustment			.015 Inches		

(Continued)

* Excludes rivet holes, grooves, chamfers, etc.
** Includes rivet holes, grooves, chamfers, etc.
*** Total swept areas for four brakes
Widest lining contact width for each brake x its drum circumference.