
B
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1995

CHEVROLET
BERETTA

'95 BERETTA



- **Driver-Side Air Bag** — in conjunction with safety belts, helps protect driver in certain frontal collisions. Always wear safety belts, even with air bags.
- **Four-Wheel Anti-Lock Brakes** — designed to help reduce wheel lockup and to maintain steering control during severe braking, even on slippery surfaces.
- **Brake/Transmission Shift Interlock** — prevents transmission from being shifted out of Park without first applying foot brake (automatic transmission only).
- **Standard Power Door Locks with Automatic Locking/Unlocking Feature** — doors automatically lock when vehicle is shifted out of Park and automatically unlock when ignition is turned to the Off position.
- **Rear-Seat Safety-Belt Child Comfort Guides** — provide comfortable placement of safety belt for smaller rear-seat occupants.
- **Daytime Running Lights** — automatically brighten headlamps to a low intensity when ignition is turned on, increasing vehicle's visibility to other drivers. Headlamps operate normally at night.



- **2.2 Liter 4-Cylinder Engine with Multi-Port Fuel Injection** — this smooth, responsive engine delivers an impressive 120 hp at 5200 rpm. Platinum-tipped spark plugs are designed to last up to 100,000 miles. A 5-speed manual transmission is standard.
- **Optional 3100 V6 with Sequential-Port Fuel Injection** — optional V6 delivers 155 hp at 5200 rpm, and is teamed with an electronically controlled 4-speed automatic transmission for exceptionally smooth, quiet performance.
- **Power Front Disc/Rear Drum Brakes** — provide sure stopping power with minimal pedal effort.
- **Standard Power Steering** — power rack-and-pinion steering makes in-city parking and maneuvering easier.



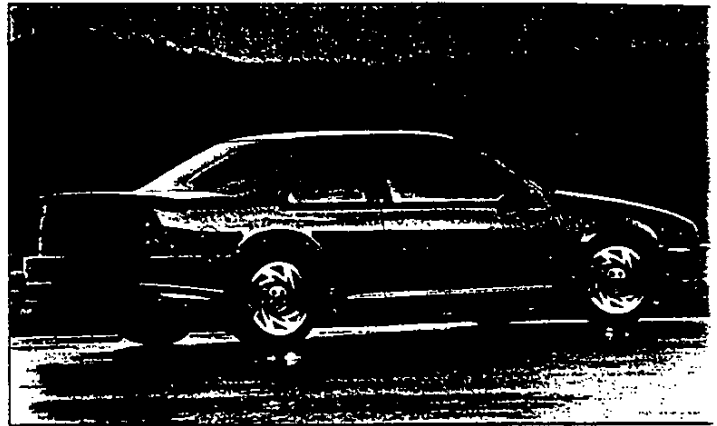
- **Base-Coat/Clear-Coat Paint** — resists fading and provides a high-gloss shine for long-lasting exterior beauty.
- **Two-Side-Galvanized Steel** — excellent corrosion protection is provided by the use of two-side-galvanized steel for all exterior panels (except the roof).
- **Body-Color Side Moldings** — help protect against minor dings and dents.
- **Gloss Black Door and Quarter-Window Moldings** — give a bold look to exterior.
- **New Exterior Colors:** Cayenne Red Metallic, Light Adriatic Blue Metallic and Raspberry Metallic — offer a bright, new look for 1995.
- **Bolt-On Full Wheel Covers** — attractive design is bolted on to reduce chance of loss or theft.



- **Rear-Seat Heat Ducts** — provide better heat distribution to rear-seat passengers for increased comfort.
- **Optional Inside Day/Night Rearview Mirror with Reading Lamps** — allows for nighttime reading and provides convenient overhead illumination (standard on Z26).
- **Optional Luggage-Area Cargo Net** — designed to keep items such as small packages and groceries secure within cargo area (standard on Z26).
- **Optional Intermittent Wipers** — allow driver to match wiper speed to weather conditions (standard on Z26).
- **Driver-Side 4-Way Manual Seat Adjuster** — allows precise positioning of seat for optimum comfort.



- **Scotchgard™ Fabric Protector** — on seats, door panels, carpeting and floor mats; resists stains and makes cleanup easy.
- **Stainless-Steel Exhaust System** — includes all pipes, catalytic converter and muffler to resist corrosion.
- **Low-Oil-Level Indicator** — warns driver of low-oil level to prevent engine damage.
- **Air Conditioning with CFC-Free Refrigerant** — quickly cools interior for maximum occupant comfort. Coolant contains no ozone-depleting CFCs.
- **Genuine Customer Care** — a no-deductible, 3-year/36,000-mile limited warranty, 24-hour roadside assistance via toll-free hot line, and courtesy transportation if your vehicle ever needs warranty work, at participating dealers.



FEATURE VEHICLE

for 1995 is the Beretta Z26 Coupe (detailed on the following sheet).



FOCUS VEHICLE

for 1995 is the Beretta Coupe. This model offers 5-passenger seating, a sporty appearance and advanced technology at an exceptional value. When equipped with the recommended V6 Special Value Package (1SMX), this model represents the best opportunity for high-volume Beretta sales at your dealership.



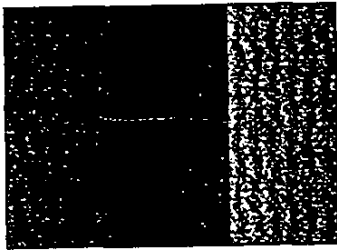
• V6 NOW STANDARD ON BERETTA Z26



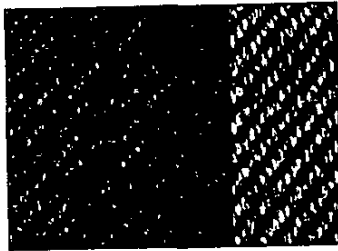
BLUE: • New Feature

95 BERETTA

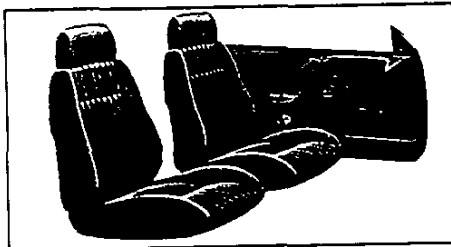
TRIM COLOR/SEAT STYLE AVAILABILITY



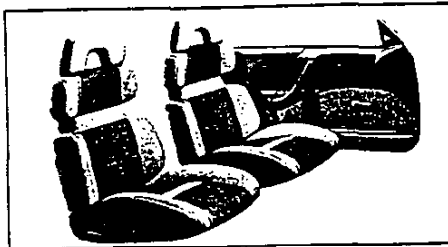
Cloth available in Medium Blue, Garnet Red and Medium Gray.



Custom Cloth available in Medium Blue, Garnet Red and Medium Gray.



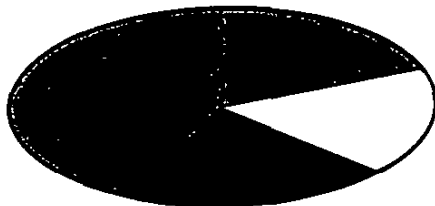
Reclining bucket seats (Beretta).



Sport reclining bucket seats (Z26).

MOST POPULAR EXTERIOR COLORS BY PERCENTAGE

Clockwise below are the anticipated four most popular Beretta colors for 1995, based on national sales volume. They are listed for reference only. To identify the top-selling colors in your area, by model, use the Retail Sales Analysis (RSA).



Bright Red	-----21%
Bright White	-----15%
Black Rose Metallic	-----12%
Cayenne Red Metallic	-----8%
Other colors	-----44%

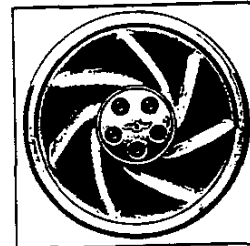
MOST POPULAR EXTERIOR COLORS WITH CORRESPONDING INTERIOR COLOR AVAILABILITY

Exterior Colors	Interior Material Colors		
	Medium Blue	Garnet Red	Medium Gray
Bright Red			•
Bright White	•	•	•
Black Rose Metallic			•
Cayenne Red Metallic			•

WHEELS



Beretta Coupe standard 14" bolt-on full wheel cover.



Beretta Z26 standard 15" bolt-on full wheel cover. Optional for Beretta Coupe.



Beretta Z26 optional 16" styled-aluminum wheel.

'95 BERETTA

FEATURE VEHICLE: BERETTA Z26 COUPE

Feature vehicle for 1995 is the Beretta Z26 Coupe. This aggressive-looking model has an abundance of standard equipment:

- 3100 V6 engine with Sequential-Port Fuel Injection delivers power and performance, and is well-matched with the Level II Sport Suspension that provides exceptional ride and handling characteristics.
- The Z26 has several exterior features that enhance its sporty appearance, such as Body-Color Remote Sport Mirrors, Front Lower and Rear Deck-Lid Spoilers, Specific Ground Effects, Styled Exhaust Outlets and 15" Bolt-On Wheel Covers.
- On the inside, Beretta Z26 features Custom Cloth Sport Bucket Seats with Adjustable Articulating Head Restraints, Driver Seat with Inflatable Lumbar Support, Driver- and Passenger-Side 4-Way Manual Seat Adjusters, EZ-Entry Passenger Seat and a 60/40 Split-Folding Rear Seat to provide versatile, yet comfortable 5-passenger seating.

FOCUS VEHICLE: BERETTA COUPE

Ordering Recommendations:

Recommended Beretta Coupe content, based on national sales volume, is listed below to assist your dealership in ordering.

Beretta Coupe with V6 Special Value Package (1SMX) includes:

- 3.1L SFI V6 Engine
- 4-Speed Automatic Transmission
- Tilt-Wheel™ Adjustable Steering Column
- Intermittent Wipers
- Inside Day/Night Rearview Mirror with Reading Lamps
- Dual Covered Visor Mirrors
- Luggage-Area Cargo Net
- Rear-Window Defogger
- AM/FM Stereo with Cassette Tape Player
- Color-Keyed Front and Rear Carpeted Floor Mats with Scotchgard™ Fabric Protector.

Beretta Coupe with 4-Cylinder Special Value Package (1SLX) includes:

- 2.2L MFI L4 Engine
- 3-Speed Automatic Transmission
- Intermittent Wipers
- Inside Day/Night Rearview Mirror with Reading Lamps
- Dual Covered Visor Mirrors
- Luggage-Area Cargo Net
- Rear-Window Defogger
- AM/FM Stereo with Cassette Tape Player
- Color-Keyed Front and Rear Carpeted Floor Mats with Scotchgard™ Fabric Protector.

NOTE: Model, PEG and optional content may vary in your locality. Use the Retail Sales Analysis (RSA) to verify or select your dealership's Beretta Focus vehicle content.

'95 PRODUCT POSITIONING

Beretta is positioned as one of America's most affordable coupes, with special appeal to younger buyers who enjoy the fun of being behind the wheel and who want a sporty appearance. Key features include style, affordability, standard ABS and driver-side air bag.

COMPETITIVE VEHICLES

- Beretta Coupe's strongest competition includes:
Plymouth Laser
Mitsubishi Eclipse
Eagle Talon
Pontiac Grand Am.
- The main competitors for Beretta Z26 include:
Ford Probe
Plymouth Laser
Mitsubishi Eclipse
Eagle Talon GT
Pontiac Grand Am.

BUYER DEMOGRAPHICS

Beretta:



Median age of 32 years.



Median income of \$42,000 annually.



Predominantly female (58%).



45% of Beretta buyers are married.

1995 BERETTA

FEATURE AVAILABILITY

	Beretta Coupe	Beretta Z26 Coupe
2.2L MFI L4	S ¹	N/A
3100 MFI V6	O ²	S
5-Speed Manual Transmission	S ³	N/A
3-Speed Automatic Transmission	O ³	N/A
4-Speed Automatic Transmission	O ⁴	S
P205/60R-15 Blackwall Tires	O ⁵	S
P195/70R-14 Blackwall Tires	S	N/A
Driver-Side Air Bag	S	S
4-Wheel Anti-Lock Brakes	S	S
Power Front Disc/Rear Drum Brakes	S	S
Brake/Transmission Shift Interlock (automatic trans. only)	S	S
Power Rack-and-Pinion Steering	S	S
Base-Coat/Clear-Coat Paint	S	S
Level II Sport Suspension	O	S
Stainless-Steel Exhaust System	S	S
Styled Exhaust Outlets	N/A	S
Removable Sunroof	O	O
Rear Deck-Lid Spoiler	O	S
Rear-Window Defogger	O	O
Air Conditioning with CFC-Free Refrigerant	S	S
Tilt-Wheel™ Adjustable Steering Column	O	O
Scotchgard™ Fabric Protector	S	S
Gauge Package with Tachometer and Trip Odometer	O	S
Door Map Pockets	S	S
Low-Oil-Level Light	S	S
Luggage-Area Cargo Net	O	S
Power Windows with Driver's Express-Down Feature	O	O

S—Standard. O—Optional. N/A—Not available. 1—Requires 5-speed manual transmission. 2—Requires 4-speed automatic transmission. 3—Requires 2.2L MFI engine (LN2). 4—Requires 3100 SFI engine (L82). 5—requires 15" bolt-on wheel cover (PG1).

DELETIONS

- Two exterior colors, Medium Garnet Red Metallic and Bright Aqua Metallic, have been deleted. Three new colors have been added: Cayenne Red Metallic, Light Adriatic Blue Metallic and Raspberry Metallic.
- The 2.3 MFI H.O. engine has been deleted on Z26 models. The 3100 MFI V6 is now standard on Z26 for 1995.

ADDITIONAL INFORMATION ON SIGNIFICANT FEATURES

- Beretta features 4-wheel anti-lock brakes (ABS) on all models as standard equipment. ABS improves the driver's ability to maintain steering control during hard braking and provides shorter stopping distances in many circumstances.
- A driver-side air bag is also standard in every Beretta, helping to reduce the chance of injury in certain moderate to severe frontal collisions. Always wear safety belts, even with air bags.
- Power door locks with automatic locking/unlocking feature. When shifting out of Park, the doors are automatically locked. All doors will automatically unlock when the ignition key is turned to the "Off" position.
- Another important safety feature is Brake/Transmission Shift Interlock, which prevents the driver from shifting out of Park unless first depressing the brake pedal, thereby reducing the possibility of accidental shifting (automatic transmission only).

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BERETTA

REVISED: 4-10-95

1995 ORDER GUIDE

BERETTA
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Prices Shown Are Manufacturer's Suggested Retail Prices (MSRP) At The Time Of Publication. These Prices Are To Be Used Only As An Aid To Inventory Management Since MSRP Figures Change Periodically. The Vehicle Price Schedule Is The Official Pricing Documentation Of Chevrolet Motor Division And Should Be Used In Discussing Vehicle Prices With Potential Buyers. The Model Prices Shown In The Order Guide Include The Destination Freight Charges.

**BERETTA
EQUIPMENT SUMMARY**

STANDARD INTERIOR FEATURES

1LV37 1LW37

AIR CONDITIONING:		S	S
CARGO NET:	LUGGAGE AREA	--	S
CUPHOLDER:	RETRACTABLE IN INSTRUMENT PANEL	S	S
GAGES:	TACHOMETER AND TRIP ODOMETER	--	S
GLASS:	TINTED	S	S
HEAT DUCTS:	REAR SEAT	S	S
HORNS:	DUAL NOTE	--	S
LIGHTING:	COURTESY, DOME, UNDER DASH AND TRUNK	S	S
LOCKS:	DOOR, AUTOMATIC WITH RELOCK AND UNLOCK FEATURE	S	S
RESTRAINT SYSTEM:	DRIVER'S SIDE AIR BAG	S	S
SAFETY BELTS:	REAR COMFORT GUIDE	S	S
SEAT BELT SYS:	PASSIVE FRONT	S	S
SCOTCHGARD:	FABRIC PROTECTOR, INCLUDES SEATS, DOOR TRIM AND FLOOR COVERING	S	S
WARNING LIGHTS:	LOW COOLANT LEVEL	S	S
	LOW OIL LEVEL	S	S
WARNING TONE:	HEADLAMPS-ON	S	S

STANDARD EXTERIOR FEATURES

INSULATOR:	BLANKET, UNDER HOOD	S	S
PAINT:	BASE COAT/CLEAR COAT	S	S
SPOILER:	FRONT LOWER AND REAR DECK LID	--	S
TIRES:	P195/70R-14 B/W	S	--
	P205/60R-15 B/W	--	S
TREATMENT:	SPECIFIC GROUND EFFECTS	--	S
TRUNK TRIM :	FULL	S	S
WIPERS:	INTERMITTENT	--	S

STANDARD CHASSIS FEATURES

BATTERY:	SMART BATTERY RUNDOWN PROTECTION	S	S
BRAKES:	4-WHEEL ANTI-LOCK	S	S
	BRAKE SYSTEM, POWER FRONT DISC/REAR DRUM	S	S
	BRAKE/TRANSMISSION SHIFT INTERLOCK (AUTO TRANS ONLY)	S	S
ENGINE:	2.2 LITER MFI L4	S	--
	3.1 LITER SFI V6	--	S
EXHAUST SYSTEMS:	OUTLET, STYLED	--	S
	STAINLESS STEEL	S	S
FUEL TANK:	15.2 GALLON CAPACITY	S	S
STEERING:	POWER RACK AND PINION	S	S
SUSPENSION:	LEVEL I SOFT RIDE	S	--
	LEVEL II SOFT SPORT	--	S
TRANSMISSION:	AUTOMATIC	--	S
	5-SPEED MANUAL	S	--

BERETTA
TRIM DEFINITION & OPTION SUMMARY

INTERIOR TRIM		1LV37	1LW37
CONSOLE:	CENTER SHIFT WITH INTEGRAL ARMREST, COVERED	S	S
MAP POCKETS:	FRONT DOOR	S	S
MIRROR:	REARVIEW, DAY/NIGHT WITH READING LAMPS	--	S
RADIO:	ELECTRONICALLY TUNED AM/FM STEREO RADIO W/SEEK-SCAN, DIGITAL CLOCK AND EXTENDED RANGE FRONT AND REAR SPEAKERS	S	--
	ELECTRONICALLY TUNED AM/FM STEREO RADIO W/SEEK-SCAN, W/STEREO CASSETTE TAPE, DIGITAL CLOCK AND EXTENDED RANGE FRONT AND REAR SPEAKERS	--	S
SEATS:	CLOTH RECLINING BUCKET WITH ADJUSTABLE HEAD RESTRAINTS AND A DRIVER'S SIDE 4-WAY MANUAL SEAT ADJUSTER WITH EASY ENTRY FEATURE	S	--
	CUSTOM CLOTH RECLINING SPORT BUCKET WITH ADJUSTABLE ARTICULATING HEAD RESTRAINTS, INFLATABLE LUMBAR SUPPORT, DRIVER'S SIDE AND PASSENGER SIDE 4-WAY MANUAL SEAT ADJUSTERS AND 60/40 SPLIT FOLDING REAR SEAT	--	S
STORAGE BIN:	ASHTRAY, CUPHOLDER AND LIGHTER	S	S
VISORS:	VISOR, LH AND RH, WITH MAP STRAPS AND PASSENGER SIDE VANITY MIRROR	S	--
	COVERED, LH AND RH, WITH MAP STRAPS	--	S

EXTERIOR TRIM		S	S
BUMPERS:	5 MPH	S	S
GRILLE:	BLOCK-OUT, BODY COLOR	--	S
HEADLAMPS:	COMPOSITE HALOGEN	S	S
LAMPS:	FOG	--	S
MIRRORS:	DUAL REMOTE, BLACK	S	--
	SPORT, REMOTE, BODY COLOR	--	S
MOLDINGS:	BODY SIDE, COLOR-KEYED AND FASCIA RUB STRIPS	S	S
	GLOSS BLACK DOOR AND QUARTER WINDOW	S	S
WHEELS:	14" STEEL WITH BOLT-ON FULL WHEEL COVERS	S	--
	15" STEEL WITH BOLT-ON WHEEL COVERS	--	S

MODEL 1LV37 BERETTA COUPE

*Includes Destination & Handling Charges

**MUST SPECIFY: EMISSIONS, ENGINE, TRANSMISSION
MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED**

Base Preferred Equipment Group (Refer Standard Equipment Summary)	1SD	1SF	1SG
Preferred Equipment Group 1			
Carpeted Mats, Color-Keyed Front and Rear w/ Scotchgard		x	x
Day/Night Rear View Mirror with Reading Lamps		x	x
LH and RH Covered Visor Mirrors		x	x
Luggage Area Convenience Net		x	x
Windshield Wipers: Intermittent		x	x
Preferred Equipment Group 2			
Power Trunk Opener			x
Speed Control, Electronic with Resume Speed			x
Split Folding Rear Seat with Arm Rest			x
Tilt-Wheel			x

ADDITIONAL OPTIONS

ACKNOWLEDGEMENTS		UB3	GAGE PACKAGE: With Tachometer and Trip Odometer
R8S	Multiple Order Numbers		RADIO EQUIPMENT
R8T	Preliminary Invoice	UM6	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Stereo Cassette Tape and Coaxial
VK3	BRACKET: License Plate, Front	U1C	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Compact Disc Player, Delco-Loc II, Coaxial Front and Extended Range Rear Speakers
CLIMATE CONTROL		AR9	SEAT: Bucket
K05	Heater, Engine Block (Note: One of the Following Defogger Options must be Specified)	D52	SPOILER: Deck Lid
C49	Defogger, Rear Window, Electric	AD3	SUNROOF: Manual, Removable
R9W	Defogger, Rear Window not Desired	QIM	TIRES: P205/60 R15 B/W (Reqs PG1 Wheels)
EMISSIONS: (Refer Emission Requirements Tab Section)		TRANSMISSION	
FE9	Federal Emission Requirement	MM5	5-Speed Manual (Base) (Reqs LN2 Eng)
NG1	Massachusetts Emission Requirement w/ LN2 and MX1 w/ L82 or LN2 and MMS	MX0	4-Speed Automatic (Reqs L82 Eng)
YF5	California Emission Requirement w/ LN2 and MX1 w/ L82 or LN2 and MMS	MX1	3-Speed Automatic (Reqs LN2 Eng)
N88	California/MA Emission Override (Reqs FE9 Emission)	PG1	WHEELS: 15" Steel Bolt-on Wheel Covers (Incls Level II Suspension) (Reqs QIM Tires)
NC7	Federal Emission Override (Reqs YF5/NG1 Emission)	A31	WINDOWS: Power w/Driver Express Down
ENGINE			
LN2	2.2 Liter MFI L4 (Base)		
L82	3.1 Liter SFI V6 (Reqs MX0 Trans)		

COLOR AND TRIM SELECTION

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

Interior Trim Color	Med Blue	Garnet Red	Med Gray
---------------------	----------	------------	----------

MODEL	SEAT TYPE	SEAT OPTION**			
1LV37	Cloth Bucket	AR9	30H	78H	14H

**Seat Option AR9 Must Be Specified

SOLID PAINT APPLICATION

Exterior Paint Color	Color Code	Med Blue	Garnet Red	Med Gray
Black	41U		x	x
Black Rose (Met)	73U			x
Blue, Light Adriatic (Met)	36U	x		
Blue, Med Adriatic (Met)	30U	x		x
Gray, Light (Met)	14U	x	x	x
Gray, Dk Green (Met)	18U			x
Raspberry (Met)	98U			x
Red, Cayenne (Met)	96U			x
Red, Bright	81U			x
White, Bright	16U	x	x	x

POWER TEAMS

ENGINE OPTION CONDITION	FINAL DRIVE RATIO		
	2.97	3.18	3.83
LN2 MM5	----	----	Std
MX1*	----	Std	----
L82 MX0	Std	---	---

*LN2 with MX1 Power Team N/A Hawaii

MODEL 1LW37 BERETTA Z26 COUPE

*Includes Destination & Handling Charges

**MUST SPECIFY: EMISSIONS, ENGINE, TRANSMISSION
MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED**

Base Preferred Equipment Group (Refer Standard Equipment Summary)	1SH	1SJ
Preferred Equipment Group 1		
Carpeted Mats, Color-Keyed Front and Rear w/Scotchgard		x
Power Trunk Opener		x
Speed Control, Electronic w/Resume Speed		x
Tilt Wheel		x

ADDITIONAL OPTIONS

ACKNOWLEDGEMENTS

- R8S Multiple Order Numbers
- R8T Preliminary Invoice
- VK3 **BRACKET:** License Plate, Front
- CLIMATE CONTROL**
- K05 Heater, Engine Block
(Note: One of the Following Defogger
Options must be Specified)

- C49 Defogger, Rear Window: Electric
- R9W Defogger, Rear Window not Desired

EMISSIONS: (Refer Emission Requirements Tab Section)

- FE9 Federal Emission Requirement
- NG1 Massachusetts Emission Requirement
- YF5 California Emission Requirement
- NB8 California/MA Emission Override
(Reqs FE9 Emission)
- NC7 Federal Emission Override (Reqs
YF5/NG1 Emission)

ENGINE

- L82 3.1 Liter SFI V6

RADIO EQUIPMENT

- U1C Electronically Tuned AM/FM
Stereo Radio w/Seek-Scan,
Digital Clock, Compact
Disc Player, Delco-Loc II,
Coaxial Front and Extended
Range Rear Speakers

- AR9 **SEAT:** Bucket

- AD3 **SUNROOF:** Manual,
Removable

- QMS **TIRES:** P205/55 R16 B/W
(Reqs PF4 Wheels)

TRANSMISSION

- MX0 4-Speed Electronically
Controlled Automatic (Base)

- PF4 **WHEEL:** 16" Styled
Aluminum Wheels w/Locks
(Incls Level, III Performance
Handling Suspension)
(Reqs QMS Tires)

- A31 **WINDOWS:** Power w/Driver
Express Down

COLOR AND TRIM SELECTION

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

Interior Trim Color	Med Blue	Garnet Red	Med Gray
---------------------	----------	------------	----------

MODEL	SEAT TYPE	SEAT OPTION**			
1LW37	Custom Cloth Sport Bucket	AR9	30G	78G	14G

**Seat Option AR9 Must Be Specified

SOLID PAINT APPLICATION

Exterior Paint Color	Color Code	Med Blue	Garnet Red	Med Gray
Black	41U		x	x
Black Rose (Met)	73U			x
Blue, Med Adriatic (Met)	30U	x		x
Raspberry (Met)	98U			x
Red, Bright	81U			x
Red, Cayenne (Met)	96U			x
White, Bright	16U	x	x	x

POWER TEAMS

ENGINE OPTION CONDITION	FINAL DRIVE RATIO
	2.97
L82 MX0	Std

NOTES

BERETTA

1995 ORDER GUIDE

REVISED: 4-10-95

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MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1995

Manufacturer	CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	Vehicle Line	BERETTA	
Mailing Address	30007 VAN DYKE WARREN, MI 48090-9065	Issued	SEPTEMBER, 1994	Revised

Direct questions concerning these specifications to the manufacturer listed above.

The information contained herein is prepared, distributed by, and is solely the responsibility of the vehicle manufacturing company to whose products it relates. This specification form was developed by the vehicle manufacturing companies under the auspices of the American Automobile Manufacturers Association.

The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.

AAMA

American Automobile Manufacturers Association

Blank Forms Provided by Technical Affairs Division

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MVMA Specifications

METRIC (U.S. Customary)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
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.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.



MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Vehicle Origin

Design & development (company)	Midsize Car Division
Where built (country)	U.S.A
Authorized U.S. sales marketing representative	Chevrolet Motor Division

Vehicle Models

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front / Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
BERETTA 2-Door Notchback Coupe (FWD)	9-94	1LV37	5(2/3)	64(141)	24/ 36
BERETTA "Z26" 2-Door Notchback Coupe (FWD)	9-94	1LW37	5(2/3)	64(141)	25/ 32

* FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive





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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

2.2 LITER L4 (133 CID)
 MULTI-PORT FUEL INJECTION RPO LN2

Engine - General

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	Inline, Front, Transverse - OHV	
Manufacturer	General Motors Powertrain Division	
No. of cylinders	4	
Bore	89.0 mm (3.50 in.)	
Stroke	88.0 mm (3.46 in.)	
Bore Spacing (C / L to C / L)	99.0 mm (3.90 in.)	
Cylinder block material & mass kg. (lbs.) (machined)	Cast Iron	
Cylinder block deck height	216.65 mm (8.53 in.)	
Cylinder block length	443 mm (17.44 in.)	
Deck clearance (minimum) (above or below block)	.6 mm (.024 in.) Below	
Cylinder head material & mass kg. (lbs.)	Aluminum, 9.7 (21.3)	
Cylinder head volume cm ³ (inches ³)	32.8 (2.00)	
Cylinder liner material	No Liner	
Head gasket thickness (compressed)	1.50 (.059)	
Minimum combustion chamber total volume cm ³ (inches ³)	67.34 (4.11)	
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4
	R. Bank	-
Firing order	1-3-2-4	
Intake manifold material & mass kg. (lbs.)**	Aluminum 3.9 (8.6)	
Exhaust manifold material & mass kg. (lbs.)**	Cast Iron 4.5 (1.0)	
Knock sensor (number & location)	One, Right Side Of Block	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) ÷ 2	87	
Engine Mounts	Quantity	4 Manual 3 Auto
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	(1) Hydroelastic (2) Elastomeric - Auto (1) Hydroelastic (3) Elastomeric - Manual
	Added isolation (sub-frame, crossmember, etc.)	No
Total dressed engine mass (wt) dry***	163.3 kg (359 lbs.) Manual	147.7 kg (325 lbs.) Automatic

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum, 328 (11.57)
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Engine - Camshaft

Location	In Block, Right Side	
Material & mass kg (weight, lbs.)	Assembled Steel	
Drive type	Chain / belt	Chain
	Width / pitch	19.3 / 9.5 mm (.76 / .37 in.)

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following: All those items necessary to make the engine a complete ready-to-run unit.



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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.1 LITER V6 (191 CID)
 SEQUENTIAL FUEL INJECTION RPO L82

Engine - General

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	60 deg. V, Front, Transverse, OHV, Front-Wheel-Drive		
Manufacturer	General Motors Powertrain Division		
No. of cylinders	6		
Bore	89.00		
Stroke	84.01		
Bore Spacing (C / L to C / L)	111.76		
Cylinder block material & mass kg. (lbs.) (machined)	Cast Iron		
Cylinder block deck height	224.0 mm (9.0 in.)		
Cylinder block length	435.5 mm (17.4 in)		
Deck clearance (minimum) (above or below block)	.58 Above TDC		
Cylinder head material & mass kg. (lbs.)	Cast Aluminum 5.3 kg (11.7 lbs.)		
Cylinder head volume cm ³ (inches ³)	28.0 (1.71)		
Cylinder liner material	Not Applicable		
Head gasket thickness (compressed)	1.62 mm (.0637)		
Minimum combustion chamber total volume cm ³ (inches ³)	27.0 (1.65)		
Cyl. no. system (front to rear)*	L Bank	2-4-6	
	R. Bank	1-3-5	
Firing order	1-2-3-4-5-6		
Intake manifold material & mass kg. (lbs.)**	Cast Aluminum	Upper 3.0 (6.63)	Lower 5.6 (12.36)
Exhaust manifold material & mass kg. (lbs.)**	Cast Iron	RT 3.76 (8.28)	LT 2.63 (5.79)
Knock sensor (number & location)	1 - Left Side Center Of Block		
Fuel required unleaded, diesel, etc.	Unleaded		
Fuel antiknock index (R + M) ÷ 2	87		
Engine Mounts	Quantity	3 Automatic	
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	(1) Hydroelastic	(2) Elastomeric
	Added isolation (sub-frame, crossmember, etc.)		
Total dressed engine mass (wt) dry***	178.16 kg (391.95 lbs.) Automatic		

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum Alloy, 369 kg (13.0 lbs.)
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Engine - Camshaft

Location	Above Crankshaft At Center Of "V"	
Material & mass kg (weight, lbs.)	Assembled Steel, 2.25 kg (4.97 lbs.)	
Drive type	Chain / belt	Chain
	Width / pitch	15.88 x 9.53 6.25 x 3.75 in.

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following: All those items necessary to make the engine a complete ready-to-run unit.



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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94

METRIC (U.S. Customary)

Engine Description
 Engine Code

2.2 LITER L4 (133 CID)
 MULTI-PORT FUEL INJECTION RPO LN2

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Standard
Valves	Number intake / exhaust
	Head O.D. intake / exhaust

4/4
 44.0 mm (1.73 in.) / 37.0 mm (1.48 in.)

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Forged Steel, .544 kg (1.2 lbs.)
Length (axes C/L to C/L)	141.95 (5.59)

Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Nodular Cast Iron, 14.4 kg. (37.1 lbs.)
End thrust taken by bearing (no.)	4
Length & number of main bearings	5, 20.72 m (.82 in.)
Seal (material, one, two piece design, etc.)	Front
	Rear

One Piece Fluoroelastomer
 One Piece Fluoroelastomer

Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	435-530 (63-77) @ 1200 12 - 20 @ 3000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 L (4.0 qt.)

Engine - Diesel Information (NOT APPLICABLE)

Diesel engine manufacturer	
Glow plug, current drain at 0°F.	
Injector nozzle	Type
	Opening pressure kPa (psi)
Pre-chamber design	
Fuel injection pump	Manufacturer
	Type
Fuel injection pump drive (belt, chain, gear)	
Supplementary vacuum source (type)	
Fuel heater (yes/no)	
Water separator, description (std., opt.)	
Turbo manufacturer	
Oil cooler-type (oil to engine coolant; oil to ambient air)	
Oil filter	

Engine - Intake System (NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

* Finished State



MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.1 LITER V6 (191 CID)
 SEQUENTIAL FUEL INJECTION RPO L82

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Standard
Valves	Number intake / exhaust
	Head O.D. intake / exhaust

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Forged Steel, .592 kg (1.31 lbs.)
Length (axes C/L to C/L)	144.78 (5.79)

Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Cast Iron, 117.2 kg (37.9 lbs.)
End thrust taken by bearing (no.)	3
Length & number of main bearings	29.5 mm (1.4) 24.0 mm (2,3) /4
Seal (material, one, two piece design, etc.)	Front
	Rear

Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	280 - 360 @ 2400
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 L (4.0 qt.)

Engine - Diesel Information (NOT APPLICABLE)

Diesel engine manufacturer	
Glow plug, current drain at 0°F.	
Injector nozzle	Type
	Opening pressure kPa (psi)
Pre-chamber design	
Fuel injection pump	Manufacturer
	Type
Fuel injection pump drive (belt, chain, gear)	
Supplementary vacuum source (type)	
Fuel heater (yes/no)	
Water separator, description (std., opt.)	
Turbo manufacturer	
Oil cooler-type (oil to engine coolant; oil to ambient air)	
Oil filter	

Engine - Intake System (NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

* Finished State



MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

2.2 LITER L4 (133 CID)
 MULTI-PORT FUEL INJECTION RPO LN2

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard
Coolant fill location (rad., bottle)		Surge Tank
Radiator cap relief valve pressure kPa (psi)		103 kPa (15 psi.)
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open at °C (°F)	91°C (195°F) All Except LD2
Water pump	Type (centrifugal, other)	Centrifugal
	GMP 1000 pump rpm	7.3
	Number of pumps	1
	Drive (V-belt, other)	Serpentine Belt
	Bearing type	Sealed, Ball Roller
	Impeller material	Stamped Steel
	Housing material	Aluminum
By-pass recirculation type (inter., ext.)		External - Thru Intake Manifold Internal
Cooling System capacity	With heater - L (qt.)	8.7 L (9.2 qt.)
	With air conditioner - L (qt.)	8.7 L (9.2 qt.)
	Opt. equipment specify - L (qt.)	None
Water jackets full length of cyl. (yes, no)		No - Between Bores Siamiese Below Ring Travel
Water all around cylinder (yes, no)		Yes
Water jackets open at head face (yes, no)		Yes
Radiator core	Std., A/C, HD	Standard
	Type (cross-flow, etc.)	Cross - Flow
	Construction (fin & tube mechanical, braze, etc.)	Tube & Center / Brazed
	Material, mass kg (wgt., lbs.)	Aluminum 3.08 kg (6.79 lbs.) Manual Trans. 3.86 kg (8.51 lbs.) Auto Trans.
	Width mm (in.)	660 mm (26.3 in.)
	Height	383 mm (15.3 in.)
	Thickness	24 (.9)
Fins per inch		17 Fins Per Inch
Radiator end tank material		Nylon 66, 33% Mineral Filled
Fan	Std., elec., opt.	Electric, Standard
	Number of blades & type (flex, solid, material)	7 Plastic
	Number & location (front, rear of radiator)	1 Fan, Behind Radiator
	Diameter & projected width	381 (15.0)
	Ratio (fan to crankshaft rev.)	Not Applicable
	Fan cutout type	ECM Controlled
	Drive type (direct, remote)	Direct - Electric Motor
	RPM at idle (elec.)	1900
	Motor rating (wattage/elec.)	150 W
	Motor switch (type & location/elec.)	ECM
	Switch point (temp./pressure/elec.)	On At 106°C (223°F) Coolant Temperature Or 193 psi A/C Head Pressure Off 103°C (217°F) & 108 psi. or w/ A/C On, Fan Always On Below 35 mph
	Fan shroud (material)	None



MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (*)

METRIC (U.S. Customary)

Engine Description
 Engine Code

**3.1 LITER V6 (191 CID)
 SEQUENTIAL FUEL INJECTION RPO L82**

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard	
Coolant fill location (rad., bottle)		Surge Tank	
Radiator cap relief valve pressure kPa (psi)		103 kPa (15 psi.)	
Circulation thermostat	Type (choke, bypass)	Bypass	
	Starts to open at °C (°F)	91°C (195°F)	
Water pump	Type (centrifugal, other)	Centrifugal	
	GMP 1000 pump rpm	12	
	Number of pumps	1	
	Drive (V-belt, other)	Serpentine Belt	
	Bearing type	Ball - Roller	
	Impeller material	Cast Iron	
	Housing material	Cast Aluminum	
By-pass recirculation type (inter., ext.)		External	
Cooling System capacity	With heater - L (qt.)	12.0 L (12.9 qt.)	
	With air conditioner - L (qt.)	12.0 L (12.9 qt.)	
	Opt. equipment specify - L (qt.)	None	
Water jackets full length of cyl. (yes, no)		Yes	
Water all around cylinder (yes, no)		Yes	
Water jackets open at head face (yes, no)		Yes	
Radiator core	Std., A/C, HD	All	
	Type (cross-flow, etc.)	Cross - Flow	
	Construction (fin & tube mechanical, braze, etc.)	Tube & Fin / Brazed	
	Material, mass kg (wgt., lbs.)	Aluminum 4.20 kg (9.24 lbs.), STD; 4.88 kg (10.74 lbs.), Auto	
	Width	660 mm (26 in.)	
	Height	383 mm (15.1 in.)	
	Thickness	24 (0.9) Standard	
	Fins per inch	17	
Radiator end tank material		Plastic	
Fan	Std., elec., opt.	Electric, Standard	
	Number of blades & type (flex, solid, material)	7 Plastic	
	Number & location (front, rear of radiator)	1 Fan, Behind Radiator	
	Diameter & projected width	381 (15.0)	
	Ratio (fan to crankshaft rev.)	Not Applicable	
	Fan cutout type	ECM Controlled	
	Drive type (direct, remote)	Electric	
	RPM at idle (elec.)	1800	
	Motor rating (wattage/elec.)	150	
	Motor switch (type & location/elec.)	ECM	
	Switch point (temp./pressure/elec.)	On at 193, Off at 108 PSI A/C Pressure	On at 108, Off at 104 deg. C
	Fan shroud (material)	None	Plastic



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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

2.2 LITER L4 (133 CID)
 MULTI-PORT FUEL INJECTION RPO LN2

Engine - Fuel System (See Supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used.)

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		A/C Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Computer Controlled
Fuel injection	Point of injection (no.)	Entering Cylinder Head (Four)
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure kPa (psi)	294 - 306 (43 - 44)
Idle speed-rpm (spec. neutral or drive and propane if used)	Manual	Computer Controlled
	Automatic	Computer Controlled
Intake manifold heat control (exhaust or water thermostatic or fixed)		None
Air cleaner type		Single Snorkel
Fuel filter (type/location)		Replaceable Paper Element Located Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electrical
	Location (eng., tank)	Fuel Tank
	Pressure range kPa (psi)	Pressure Depends On Flow Rate And System Voltage
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	62.4 @ 350 (16.51 @ 50.8) Figures For Wide Open Throttle

Fuel Tank

Capacity refill L (gallons)		57.5 L (15.2 gal.)
Location (describe)		Under Rear Seat (Forward Of Rear Axle)
Attachment		Two Longitudinal Steel Straps
Material & Mass kg. (weight lbs.)		Steel
Filler pipe	Location & material	Right Rear Quarter - Steel
	Connection to tank	Fuel Filler And Vent Hose With Clamps
Fuel line (material)		Steel/ Nylon/ Rubber
Fuel hose (material)		Filler Hose - Rubber
Return line (material)		Steel/ Nylon/ Rubber
Vapor line (material)		Steel/ Nylon/ Rubber
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	"
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
	Selector switch or valve	"
Separate fill		"



MVMA Specifications

Vehicle Line BERETTA
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METRIC (U.S. Customary)

Engine Description
 Engine Code

3.1 LITER V6 (191 CID)
 SEQUENTIAL FUEL INJECTION RPO L82

Engine - Fuel System (See Supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used.)

Induction type: carburetor, fuel injection system, etc.		Sequential Fuel Injection
Manufacturer		A/C Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		PCM Controlled
Fuel injection	Point of injection (no.)	Intake Port (6)
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure kPa (psi)	300 (43.5)
Idle speed-rpm (spec. neutral or drive and propane if used)	Manual	PCM Controlled
	Automatic	PCM Controlled
Intake manifold heat control (exhaust or water thermostatic or fixed)		Fixed
Air cleaner type		Replaceable Paper Element
Fuel filter (type/location)		Chassis Mounted, In-Line Replaceable
Fuel pump	Type (elec. or mech.)	Electrical
	Location (eng., tank)	Tank
	Pressure range kPa (psi)	250-300 (36-44)
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	62.5 (16.4) @ 350 (50.8) @ Wide Open Throttle

Fuel Tank

Capacity refill L (gallons)		57.5 (15.2)
Location (describe)		Under Rear Seat (Forward Of Rear Axle)
Attachment		Two Longitudinal Steel Straps
Material & Mass kg. (weight lbs.)		Steel
Filler pipe	Location & material	Right Rear Quarter - Steel
	Connection to tank	Fuel Filler And Vent Hose With Clamps
Fuel line (material)		Steel/ Nylon/ Rubber
Fuel hose (material)		Filler Hose - Rubber
Return line (material)		Steel/ Nylon/ Rubber
Vapor line (material)		Steel/ Nylon/ Rubber
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	"
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
	Selector switch or valve	"
Separate fill		"

MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (*) _____

METRIC (U.S. Customary)

Engine Description
 0.Engine Code

2.2 LITER L4 (133 CID)
 MULTI-PORT FUEL INJECTION RPO LN2

Vehicle Emission Control

Type (air injection, engine modifications, other)		CCC Control	
Exhaust Emission Control	Air injection	Pump or pulse	Not Applicable
		Driven by	.
		Air distribution (head, manifold, etc.)	
		Point of entry	
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Negative Back Pressure EGR Valve With Intergal Transducer And Single Shaft Cross Hole
		Exhaust source	#4 Cylinder At Cylinder Head
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet Manifold
	Catalytic Converter	Type	3- Way Monolith
		Number of	1
		Locations(s)	Mounted To Center Underbody
Volume L (in³)		1.8 (1.10)	
Substrate type		Monolith	
Noble metal type		Platinum (Pt), Rhodium (Rh), Palladium (Pd)	
Noble metal concentration (g/cm³)		.000948	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges to (intake manifold, other)		Intake Manifold
	Air inlet (breather cap, other)		Air Cleaner Outlet Duct
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel Tank	Canister
		Carburetor	-
	Vapor storage provision		Canister
Electronic system	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

Engine - Exhaust System

Type (single, single with cross-over, dual, other)	Single	
Muffler no. & type (reverse flow, straight thru, separate resonator), Muffler volume (liters), Material & Mass kg. (weight lbs.)	1, Triflow, Muffler, Stainless Steel, 6.89 (15.15)	
Resonator no., type, & volume (liters)	Not Applicable	
Exhaust pipe	Branch o.d., wall thickness	Not Applicable
	Main o.d., wall thickness	41.3 x 1.42 mm (1.625 x .056)
	Material & Mass kg. (weight lbs.)	409 Stainless Steel, 3.4 (7.6)
Intermediate pipe	o.d. & wall thickness	50.8 x 1.37 mm (2.0 x .054 in.)
	Material & Mass kg. (weight lbs.)	409 Stainless Steel 3.0 (6.7)
Tail pipe	o.d. & wall thickness	50.8 x 1.09 mm (2.0 x .043 in.)
	Material & Mass kg. (weight lbs.)	409 Stainless Steel, .4 (.9)



MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (*)

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.1 LITER V6 (191 CID)
 SEQUENTIAL FUEL INJECTION RPO L82

Vehicle Emission Control

Type (air injection, engine modifications, other)		Not Used		
Exhaust Emission Control	Air injection	Pump or pulse	•	
		Driven by	•	
		Air distribution (head, manifold, etc.)	•	
		Point of entry	•	
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled Flow, Digital	
		Exhaust source	Right Side Exhaust Manifold	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold	
	Catalytic Converter	Type	Bed Monolith	
		Number of	1	
		Locations(s)	Mounted To Center Underbody	
Volume L (in ³)		1.8 (110)		
Substrate type		Ceramic Monolith		
Noble metal type		Platinum (Pt.), Rhodium (Rh.)		
	Noble metal concentration (g/cm ²)	Federal: 0.000837; California 0.000837		
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction	
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	
	Discharges to (intake manifold, other)		Intake Manifold	
	Air Inlet (breather cap, other)		Right Rear Rocker Arm Cover	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel Tank	Canister	
		Carburetor	Not Applicable	
	Vapor storage provision		Canister	
Electronic system	Closed loop (yes/no)		Yes	
	Open loop (yes/no)		No	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Singel
⊗	Muffler no. & type (reverse flow, straight thru, separate resonator) , Muffler volume (liters), Material & Mass kg. (weight lbs.)	1, Tri - Flow Muffler, Stainless Steel, 6.86 (15.15)
⊗	Resonator no., type, & volume (liters)	1, 101 mm x 250 mm
Exhaust pipe	Branch o.d., wall thickness	9.65
	Main o.d., wall thickness	50.8 x 1.77 mm (2.0 x .0538 in.)
	Material & Mass kg. (weight lbs.)	409 Stainless Steel, 1.9 (4.2)
Intermediate pipe	o.d. & wall thickness	50.8 x 1.37 mm (2.0 x .054 in.)
	Material & Mass kg. (weight lbs.)	409 Stainless Steel 3.0 (6.7)
Tail pipe	o.d. & wall thickness	49.8 x 1.09 mm (1.34 x .043 in.)*
	Material & Mass kg. (weight lbs.)	409 Alum. Stainless Steel, .8 (1.8); w/z21 1.0 (2.2)

* W/Z21 57.1 x 1.09 mm (2.2 x .043 in.)



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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (☉) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

2.2 LITER L4 (133 CID)
 MULTI-PORT FUEL INJECTION RPO LN2

Transmissions/Transaxle (Std., Opt., N.A.)

Manual 4-speed (manufacturer/country)	Not Applicable
Manual 5-speed (manufacturer/country)	Standard Isuzu / Japan (MR3)
Manual 6-speed (manufacturer/country)	Not Applicable
Automatic (manufacturer/country)	Optional, General Motors Powertrain / U.S.A
Automatic overdrive (manufacturer/country)	Not Applicable

Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.73
	2nd	2.18
	3rd	1.33
	4th	.923
	5th	0.74
	6th	
	Reverse	3.58
Synchronous meshing (specify gears)		1-5
Shift lever location		Floor
Trans. case material & mass kg. (lbs.)*		Aluminum, 36.5 (80.1)
Lubricant	Capacity L (pt.)	1.9 (4.0)
	Type recommended	Synchromesh Transmission Fluid (STF)

Clutch (Manual Transmission)

Clutch manufacturer		Daikin
Clutch type (dry, wet; single, multiple disc)		Dry Disc, Single
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	133.4 (30.0)
	Released	115.6 (26.0)
Assist (spring, power/percent, nominal)		Over Center Spring
Type pressure plate springs		Diaphragm
Total spring load (nominal) N (lbs.)		5688 (1279)
Clutch facing	Facing mfr. & material coding	Valeo F202
	Facing material & construction	F202
	Rivets per facing	16
	Outside x inside dia. (nominal)	215.0 x 150.0 (8.46 x 5.91)
	Total eff. area cm ² (in. ²)	186.3 (28.88)
	Thickness (pressure plate side/fly wheel side)	3.5 (.14) Pressure Plate Side, 3.2 (.13) Flywheel Side
	Rivet depth (pressure plate side/fly wheel side)	1.3 (0.05) / 1.2 (0.05)
Engagement cushion method		Driven Plate, Wave Spoke Springs
Release bearing type & method lub.		Self Centering, Augular Contact Ball Bearing - Prepacked & Sealed
Torsional damping method, springs, hysteresis		Coil Springs With Non - Metal Friction Control

* Includes shift linkage, lubricant, and clutch housing. If other specify.

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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.1 LITER V6 (191 CID)
 SEQUENTIAL FUEL INJECTION RPO LB2

Transmissions/Transaxle (Std., Opt., N.A.)

Manual 4-speed (manufacturer/country)	
Manual 5-speed (manufacturer/country)	
Manual 6-speed (manufacturer/country)	
Automatic (manufacturer/country)	General Motors Powertrain Transmission USA
Automatic overdrive (manufacturer/country)	

Manual Transmission/Transaxle (NOT APPLICABLE)

Number of forward speeds		
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	5th	
	6th	
	Reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Trans. case material & mass kg. (lbs.)*		
Lubricant	Capacity L (pt.)	
	Type recommended	

Clutch (Manual Transmission) (NOT APPLICABLE)

Clutch manufacturer		
Clutch type (dry, wet; single, multiple disc)		
Linkage (hydraulic, cable, rod, lever, other)		
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	
	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		
Total spring load (nominal) N (lbs.)		
Clutch facing	Facing mfg. & material coding	
	Facing material & construction	
	Rivets per facing	
	Outside x inside dia. (nominal)	
	Total eff. area cm ² (in. ²)	
	Thickness (pressure plate side/ty wheel side)	
	Rivet depth (pressure plate side/ty wheel side)	
Engagement cushion method		
Release bearing type & method lub.		
Torsional damping method, springs, hysteresis		

* Includes shift linkage, lubricant, and clutch housing. If other specify.



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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Engine Description	2.2 LITER L4 (133 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LN2

Automatic Transmission/Transaxle

Trade Name		3T40 Tansaxle Assembly
Type and special features (describe)		3-Speed Automatic With Torque Converter Clutch
Shift mechanics		Hydraulic Clutches
Gear selector	Location (column, floor, other)	
	Ltr./No. designation (e.g. PRND21)	P-R-N-D-2-1
	Shift interlock (yes, no, describe)	
Gear ratios	1st	2.84
	2nd	1.60
	3rd	1.00 (Converter Clutch Engagement)
	4th	Not Applicable
	5th	.
	6th	.
	Reverse	2.07
Final drive ratio		2.84
Max. upshift vehicle speed - drive range km/h (mph)		-(Dependent Axle Ratio/ Application Specific)
Max. upshift engine speed RPM		6200
Max. kickdown speed - drive range km/h (mph)		-(Dependent On Axle Ratio/ Application Specific)
Min. overdrive speed km/h (mph)		-(Dependent On Axle Ratio/ Application Specific)
Torque converter	Type	Lock - Up
	Torus design	Yes
	Number of elements	3
	Max. ratio at stall	2.48
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 (9.8)
Capacity factor "K"		203
Pump type		Positive Variable Displacement
Lubricant	Capacity refill L (pt.)	8.5 (17.85) Dry
	Type recommended	Dexron III
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral Part Of Radiator
Transmission mass kg (lbs.) & case material**		65.7 (144.54), Dry Weight

All Wheel / 4 Wheel Drive (NOT APPLICABLE)

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

* Input speed $\div \sqrt{\text{torque}}$

** Dry weight including torque converter. If other, specify.



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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (#) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.1 LITER V6 (191 CID)
 SEQUENTIAL FUEL INJECTION RPO L82

Automatic Transmission/Transaxle

Trade Name		GMPT 4T60 - E
Type and special features (describe)		4-Speed Automatic With Torque Converter Clutch
Shift mechanics		Hydraulic Clutches / Electronic Shifting
Gear selector	Location (column, floor, other)	
	Ltr./No. designation (e.g. PRND21)	P-R-N- D -D-2-1
	Shift interlock (yes, no, describe)	
Gear ratios	1st	2.92
	2nd	1.57
	3rd	1.00
	4th	.71
	5th	Not Applicable
	6th	.
	Reverse	2.39
Final drive ratio		3.29
Max. upshift vehicle speed - drive range km/h (mph)		-(Dependent Axle Ratio/ Application Specific)
Max. upshift engine speed RPM		6000
Max. kickdown speed - drive range km/h (mph)		-(Dependent On Axle Ratio/ Application Specific)
Min. overdrive speed km/h (mph)		-(Dependent On Axle/ Ratio Application Specific)
Torque converter	Type	Lock - Up
	Torus design	Yes
	Number of elements	3
	Max. ratio at stall	1.93
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 (9.7)
Capacity factor "K"		140
Pump type		Positive Variable Displacement Vane
Lubricant	Capacity refill L (pt.)	12.7 (26.6) Dry
	Type recommended	Dexron III
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard (Integral Part Of Radiator)
Transmission mass kg (lbs.) & case material**		81.0 (178.50), Dry

All Wheel / 4 Wheel Drive (NOT APPLICABLE)

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect, chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

* Input speed $\div \sqrt{\text{torque}}$

** Dry weight including torque converter. If other, specify.



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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

2.2 LITER L4 (133 CID)
 MULTI-PORT FUEL INJECTION RPO LN2

Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage)

Effective final drive ratio (or overall top gear ratio)		3.18	3.83 (2.83)
Transfer ratio and method (chain, gear, etc.)		1.12, Chain (33/37)	Not Applicable
Front drive unit	Ring gear o.d.	Not Applicable	
	No. of teeth	Pinion	"
		Ring gear	"

Front Drive Unit

Description (integral to trans., etc.)		Planetary Final Drive Integral With Transmission
Limited slip differential (type)		Not Applicable
Drive pinion	Type	"
	Offset	"
No. of differential pinions		2
Pinion / differential	Adjustment (shim, etc.)	Not Applicable
	Bearing adjustment	"
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	See Automatic Trans Spec.
	Type recommended	"

Axle Shafts - Front Wheel Drive

Manufacturer and number used		Saginaw Division		
Type (straight, solid bar, tubular, etc.)	Left	Straight, Solid Bar		
	Right	Straight, Solid Bar		
Outer diam. x length* x wall thickness	Manual Transaxle	Left	23.81 x 320.0 mm (.94 x 12.59 in.)	
		Right	23.81 x 663.0 mm (.94 x 26.10 in.)	
	Automatic transaxle	Left	23.81 x 311.0 mm (.94 x 12.24 in.)	
		Right	23.81 x 364.3 mm (.94 x 14.34 in.)	
	Optional transaxle	Left	None	
		Right	None	
Slip yoke	Type	None		
	Number of teeth	None		
	Spline o.d.	None		
Universal joints	Make and mfg. no.	Inner	Saginaw Division	
		Outer	Saginaw Division	
	Number used		Inboard and Outboard on Each Drive Shaft	
	Type, size, plunge	Inner	Tripot 61.0 Stroke	
		Outer	Rzeppa - Fixed Center	
	Attach (u-bolt, clamp, etc.)		Snap Ring Inner Nut, Washer Outer	
Bearing	Type (plain, anti-friction)	Inner, Ball & Roller; Outer, Ball		
	Lubrication (fitting, prepack)	Prepacked		
Drive taken through (torque tube, arms or springs)		Wisebone Lower Control Arm; Upper MacPherson Strut		
Torque taken through (torque tube, arms or springs)		Engine Mounting System		

* Centerline to centerline of universal joints, or to centerline of attachment.



MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 8-94 Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.1 LITER V6 (191 CID)
 SEQUENTIAL FUEL INJECTION RPO L82

Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage)

Effective final drive ratio (or overall top gear ratio)		2.93 (M13)
Transfer ratio and method (chain, gear, etc.)		(37/33) Chain .8919
Front drive unit	Ring gear o.d.	Not Applicable
	No. of teeth	"
	Pinion	"
	Ring gear	"

Front Drive Unit

Description (integral to trans., etc.)		Planetary Final Drive Integral With Transmission
Limited slip differential (type)		Not Applicable
Drive pinion	Type	"
	Offset	"
No. of differential pinions		2
Pinion / differential	Adjustment (shim, etc.)	Not Applicable
	Bearing adjustment	"
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	See Automatic Trans Spec.
	Type recommended	"

Axle Shafts - Front Wheel Drive

Manufacturer and number used		2	
Type (straight, solid bar, tubular, etc.)	Left	Straight Solid Bar	
	Right	Straight Solid Bar	
Outer diam. x length* x wall thickness	Manual transaxle	Left	
		Right	
	Automatic transaxle	Left	27.1 x 286.3 mm (1.07 x 11.27 in.)
		Right	27.1 x 274.5 mm (1.07 x 10.81 in.)
	Optional transaxle	Left	None
		Right	None
Slip yoke	Type	None	
	Number of teeth	None	
	Spline o.d.	None	
Universal joints	Make and mfg. no.	Inner	Saginaw Division
		Outer	Saginaw Division
	Number used		2 - On Each Drive Shaft
	Type, size, plunge	Inner	FREE MOTION 61.0 Stroke
		Outer	Rzeppa - Fixed Center
	Attach (u-bolt, clamp, etc.)		Retaining Ring Inner Washer Nut Outer
	Bearing	Type (plain, anti-friction)	Inner - Ball & Roller Outer - Ball
Lubrication (fitting, prepack)		Prepacked	
Drive taken through (torque tube, arms or springs)		Wishbone Lower Control Arm, Upper MacPherson Strut	
Torque taken through (torque tube, arms or springs)		Engine Mounting System	

* Centerline to centerline of universal joints, or to centerline of attachment.



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MVMA Specifications

Vehicle Line BERETTA
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METRIC (U.S. Customary)

Engine Description
 Engine Code

2.2 LITER L4 (133 CID)
 MULTI-PORT FUEL INJECTION RPO LN2

Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage) (NOT AVAILABLE)

Axle ratio (or overall top gear ratio)		
Ring gear o.d.		
No. of teeth	Pinion	
	Ring gear	

Rear Axle Unit (NOT AVAILABLE)

Description		
Limited slip differential (type)		
Drive pinion	Type	
	Offset	
No. of differential pinions		
Pinion / differential	Adjustment (shim, etc.)	
	Bearing adjustment	
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	
	Type recommended	

Propeller Shaft - Rear Wheel Drive (NOT AVAILABLE)

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			
Outer diam. x length* x wall thickness	Manual 4-speed transmission		
	Manual 5-speed transmission		
	Manual 6-speed transmission		
	Overdrive		
	Automatic transmission		
Intermediate bearing	Type (plain, anti-friction)		
	Lubrication (fitting, prepack)		
Slip yoke	Type		
	Number of teeth		
	Spline o.d.		
Universal joints	Make and mfg. no.	Front	
		Rear	
	Number used		
	Type (ball and trunnion, cross)		
	Rear attach (u-bol, clamp, etc.)		
	Bearing	Type (plain, anti-friction)	
Lubrication (fitting, prepack)			
Drive taken through (torque tube, arms or springs)			
Torque taken through (torque tube, arms or springs)			

* Centerline to centerline of universal joints, or to centerline of rear attachment.

MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.1 LITER V6 (191 CID)
 SEQUENTIAL FUEL INJECTION RPO L82

Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage) (NOT AVAILABLE)

Axle ratio (or overall top gear ratio)		
Ring gear o.d.		
No. of teeth	Pinion	
	Ring gear	

Rear Axle Unit (NOT AVAILABLE)

Description		
Limited slip differential (type)		
Drive pinion	Type	
	Offset	
No. of differential pinions		
Pinion / differential	Adjustment (shim, etc.)	
	Bearing adjustment	
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	
	Type recommended	

Propeller Shaft - Rear Wheel Drive (NOT AVAILABLE)

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)		
Outer diam. x length* x wall thickness	Manual 4-speed transmission	
	Manual 5-speed transmission	
	Manual 6-speed transmission	
	Overdrive	
Intermediate bearing	Automatic transmission	
	Type (plain, anti-friction)	
Lubrication (fitting, prepack)		
Slip yoke	Type	
	Number of teeth	
	Spline o.d.	
Universal joints	Make and mfg. no.	Front
		Rear
	Number used	
	Type (ball and trunnion, cross)	
	Rear attach (u-bolt, clamp, etc.)	
Bearing	Type (plain, anti-friction)	
	Lubrication (fitting, prepack)	
Drive taken through (torque tube, arms or springs)		
Torque taken through (torque tube, arms or springs)		

* Centerline to centerline of universal joints, or to centerline of rear attachment.



MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (#) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not available		--	
	Manual/automatic control		--	
	Type (air/hydraulic)		--	
	Primary/assist spring		--	
	Rear only/4 wheel leveling		--	
	Single/dual rate spring		--	
	Single/dual ride heights		--	
	Provision for jacking		Body Jack & Pads On Rocker	
Shock absorber damping controls	Standard/option/not available		--	
	Manual/automatic control		--	
	Number of damping rates		--	
	Type of actuation (manual/ electric motor/air, etc.)		--	
	Sensors	Lateral acceleration		--
		Deceleration		--
Acceleration		--		
Road surface		--		
Shock absorber (front & rear)	Type		Front: MacPherson Strut, Rear: Double Acting Hydraulic	
	Make		Delco Products	
	Piston diameter		Front: 32 (1.26) Rear 32 (1.26)	
	Rod diameter		Front 22 (.87) Rear 13 (.51)	

Suspension - Front

Type and description		MacPherson Strut With Coil Spring	
Travel	Full jounce (define load condition)	82 mm (3.23 in.) From Design	
	Full rebound	81 mm (3.19 in.) From Design	
Spring	Type (coil, leaf, other & material)		Coil, Steel
	Insulators (type & material)		Top & Bottom - Rubber
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)		Spring Computer Selected - Varies With Option Content
	Spring rate N/mm (lb./in.)		20 (177) FE1/ FE2, 24 N/mm FE3
	Rate at wheel N/mm (lb./in.)		17.5 (154.9)
Stabilizer	Type (link, linkless, frameless)		Link
	Material & O.D. bar/tube, wall thickness		Steel, 24 mm

Suspension - Rear

Type and description		Trailing Twist Axle With Tubular Control Arms And Open Section Transverse Beam		
Travel	Full jounce (define load condition)	96.5 mm (3.79 in.) From Design		
	Full rebound	91 mm (3.58 in.) From Design		
Spring	Type (coil, leaf, other & material)		Coil, Steel	
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)		Spring Computer Selected - Varies With Option Content	
	Spring rate N/mm (lb./in.)		19 N/mm FE1/ FE2, 21 N/mm FE3	
	Rate at wheel N/mm (lb./in.)		11.1	
	Insulators (type & material)		Top - Rubber	
	If leaf	No. of leaves	--	
Shackle (comp. or tens.)		--		
Stabilizer	Type (link, linkless, frameless)		--	
	Material & O.D. bar/tube, wall thickness		--	
Track bar (type)		--		

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Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Brakes - Service

Description		Power Assisted Hydraulic Brakes			
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Standard - Disc			
	Rear (disc or drum)	Standard - Drum			
Valving type (proportion, delay, metering, other)		Proportioning, Diagonal Split Circuit			
Power brake (std., opt., n.a.)		Standard			
Booster type (remote, integral, vac., hyd., etc.)		Tandem Vacuum			
Vacuum	Source (inline, pump, etc.)	Inline			
	Reservoir (volume in. ³)	None			
	Pump-type (elec., gear or belt driven)	Not Applicable			
Traction assist	Operational speed range	Not Applicable			
	Type (engine or brake intervention)	Not Applicable			
Antilock device	Front/rear (std., opt., n.a.)	Standard			
	Manufacturer	Delco Chassis Division - ABS VI			
	Type (electronic, mech.)	Electronic			
	Number sensors or circuits	4			
	Number antilock hydraulic circuits	3			
	Integral or add-on system	Add - On			
	Yaw control (yes, no)	Yes			
Hyd. power source (elec., vac., mtr., pwr., strg.)		Electric Motor For Each Circuit			
Effective area cm ² (in. ²)*		204 (31.7) Front 324.1 (50.2) Rear			
Gross Lining area cm ² (in. ²)** (F/R)		204 (31.7) Front 324.1 (50.2) Rear			
Swept area cm ² (in. ²)** (F/R)		1175 (182.2) Front 556 (86.2) Rear			
Rotor	Outer working diameter	F/R	Front - 259.5 (10.2)		
	Inner working diameter	F/R	Front - 149.6 (5.9)		
	Thickness	F/R	Front - 20 (.79)		
	Material & type (vented/solid)	F/R	Front - Vented Cast Iron		
Drum	Diameter & width	F/R	Rear - 200 x 45 mm (7.87 x 1.77 in.)		
	Type and material	F/R	Cast Iron		
Wheel cylinder bore		Front - 57 mm (2.24 in.) Rear - 17.5 mm (.69 in.)			
Master cylinder	Bore/stroke	F/R	Bore - 22.2 mm (.874 in.) Stroke 35.7 mm (1.41 in.)		
Pedal arc ratio		3.35:1			
Line press. at 445 N (100 lb.) pedal load [kPa (psi)]		(1,600) Max			
Lining clearance		F/R	Both - Self Adjusting		
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Integrally Molded - Inboard And Outboard	
		Rivet Size		Not Applicable	
		Manufacturer		Delco Chassis Division	
		Lining code *****		130 FE	
		Material		Semi - Metallic	
		****	Primary or out-board	124 x 46 x 7.96 mm (4.88 x 1.81 x .31 in.)	
		Size	Secondary or in-board	124 x 46 x 10.40 mm (4.88 x 1.81 x .41 in.)	
	Shoe thickness (no lining)		4.85 (.19)		
	Rear wheel	Bonded or riveted (rvts/seg.)		Riveted	
		Manufacturer		Delco Chassis Division	
		Lining code *****		235 FE	
		Material		Organic	
		****	Primary or out-board	167.9 x 44.2 x 6.6 mm (6.61 x 1.74 x .26 in.)	
		Size	Secondary or in-board	198.8 x 44.2 x 7.2 mm (7.83 x 1.74 x .28 in.)	
Shoe thickness (no lining)		2.75 mm (.11 in.)			

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
 (Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

**** Size for drum brakes includes length x width x thickness. *****Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.



MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (#) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Tires And Wheels (Standard)

Tires	Size (service description)		P195/70R14 BW
	Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	210 (30)
		Rear kPa (psi)	210 (30)
	Rev./mile at 70 km/h (45 mph)		842
Wheels	Type & material		Steel
	Rim (size & flange type)		14 x 6J
	Wheel offset		47
	Attachment	Type (bolt or stud & nut)	Stud
		Circle diameter	100 mm
Number & size		5 - 12 mm	
Spare	Tire and wheel		T115/70D14 BW Wheel Dia. 14 x 4 Inflation 420 kPa (60) psi.
	Storage position & location (describe)		Flat Under Rear Load Floor

Tires And Wheels (Optional)

Tire size (service description)		P205/60R15
Type (bias, radial, steel, nylon, etc.)		Radial
Wheel (type & material)		Steel
Rim (size, flange type and offset)		15 x 6 x 47
Tire size (service description)		P205/55R16
Type (bias, radial, steel, nylon, etc.)		Radial
Wheel (type & material)		Aluminum
Rim (size, flange type and offset)		16 x 7 x 42
Tire size (service description)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (service description)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel size		
(If configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		

Brakes - Parking

Type of control		Hand Lever Assembly
Location of control		In Console Between Front Seats
Operates on		Rear Service Brake
If separate from service brakes	Type (internal or external)	Not Applicable
	Drum diameter	--
	Lining size (length x width x thickness)	--



MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (*) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Steering

Manual (std., opt., n.a.)		Not Available	
Power (std., opt., n.a.)		Standard	
Speed-sensitive (std., opt., n.a.)		N/A	
4-wheel steering (std., opt., n.a.)		N/A	
Adjustable steering wheel/column (tilt, telescope, other)	Type	Tilt	
	Manufacturer	Saginaw Division	
	(std., opt., n.a.)	Optional	
Wheel diameter** (W9) SAE J1100	Manual	--	
	Power	386 (15.2)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	11.3 (37.2)
		Curb to curb (l. & r.)	10.75 (35.3)
	Inside rear	Wall to wall (l. & r.)	5.8 (19.2)
		Curb to curb (l. & r.)	7.5 (24.6)
Scrub Radius*		-1.69 (14" Tires)	
Manual	Gear	Type	--
		Manufacturer	--
		Ratios	Overall
	No. wheel turns (stop to stop)		--
Power	Type (coaxial, elec. hyd., etc.)		Rack And Pinion w/Center Take - Off Tie Rods - Integral
	Manufacturer		Saginaw Division
	Gear	Type	Rack And Pinion w/Center Take - Off Tie Rods - Integral
		Ratios	Overall
	Pump (drive)		Belt Off Crankshaft Pulley
	No. wheel turns (stop to stop)		2.33 ALL
Linkage	Type		Center Take Off Tie Rods, Rack And Pinion
	Location (front or rear of wheels, other)		Rear
	Tie rods (one or two)		2
Steering axis	Inclination at camber (deg.)		13.2
	Bearings (type)	Upper	Ball Bearings
		Lower	Ball Joint
		Thrust	Incorporated In Upper Bearing
Steering spindle/knuckle & joint type		MacPherson Strut	

* The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

** See Page 23.



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MVMA Specifications

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METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	Not Adjustable
		Camber (deg.)	.1(+/-).7
		Toe-in outside track mm (in.)	0 +/- .20 Sum
	Service reset*	Caster (deg.)	Not Adjustable
		Camber (deg.)	.0 (+/-).7
		Toe-in mm (in.)	.0 (+/-) .20 Sum
Periodic M.V. inspection	Caster (deg.)	Not Adjustable	
	Camber (deg.)	-	
	Toe-in mm (in.)	-	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-.40° +/- .40°
		Toe-in outside track mm (in.)	-.20° +/- .35°
	Service reset*	Camber (deg.)	Not Adjustable
		Toe-in mm (in.)	Not Adjustable
	Periodic M.V. insp.	Camber (deg.)	Not Adjustable
		Toe-in mm (in.)	Not Adjustable

* Indicates pre-set, adjustable, trend set or other.

Electrical - Instruments and Equipment

ELECTRIC BASE CLUSTER

OPTIONAL ELECTRIC BASE CLUSTER

Speedometer	Type (analog, digital, std., opt.)	Analog	
	Trip odometer (std., opt., n.a.)	Not Available	Standard
Head-up display	Standard, optional, not available		Not Available
	Type	Secondary, opto-electronic	*
	Speedometer	Digital	*
	Status/warning indicators	Turn signals, high beam, low fuel, check gauges	*
	Brightness control	Day / night mode, adjustable	*
EGR maintenance indicator		Not Available	
Charge indicator	Type	Tell-Tale Warning Light	Gauge
	Warning device (light, audible)	Light	Not Available
Temperature indicator	Type	Gauge	
	Warning device (light, audible)	Tell-Tale Warning Light	
Oil pressure indicator	Type	Tell-Tale Warning Light	
	Warning device (light, audible)	Light	
Fuel indicator	Type	Electric Gauge w/Pointer	
	Warning device (light, audible)	Not Available	
Windshield wiper	Type (standard)	Electric 2-Speed	
	Type (optional)	Intermittent Windshield Wiper System	
	Blade length	482.6 mm (19.0 in.)	
	Swept area cm ² (in. ²)	6221.9 (964.4)	
Windshield washer	Type (standard)	Wet - Arm Electric Pump Mounted On Reservoir Bottle	
	Type (optional)	Not Available	
	Fluid level indicator (light, audible)	*	
Rear window wiper, wiper/washer (std., opt., n.a.)		*	
Horn	Type	Electric Vibrating	
	Number used	One "F" Note, "A" Note (Optional)	
Other		Standard, Chimes	



MVMA Specifications

Vehicle Line BERETTA
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METRIC (U.S. Customary)

Engine Code/Description

2.2 LITER L4 (133 CID)
 MULTI-PORT FUEL INJECTION RPO LN2

Electrical - Supply System

Battery	Manufacturer	Delco Remy	
	Model, std., (opt.)	1982514	1983646 Optional
	Voltage	12	
	Amps at 0° F. cold crank	525	600
	Minutes-reserve capacity	90	
	Amps/hrs. -20 hr. rate	54	
	Location	Engine Compartment	
Alternator	Manufacturer	Delco Remy	
	Rating (idle/max. rpm)	42/ 105	
	Ratio (alt. crank/rev.)	2.64:1	
	Output at idle (rpm, park)	38 Amps @ 93°C - 600 RPM	
	Optional (type & rating)		
Regulator	Type	Integral With Alternator	

Electrical - Starting System

Motor	Manufacturer	Delco Remy
	Current drain _____ °C (°F)	329 Amps
	Power rating kw (hp)	1.4 kw (1.9 hp.)
Motor drive	Engagement type	Solenoid Operated Shift Lever
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Electronic - Direct Ignition	
	Other (specify)	Control Module With Two Integral Coils And One Remote Timing Sensor	
Coil	Manufacturer	Delco Remy	
	Model	1103902	
	Current	Engine stopped - A	Less Than 100 ma
		Engine idling - A	Less Than 1.5 Amp. (Average)
Spark plug	Manufacturer	AC	
	Model	41-900	
	Thread (mm)	14 x 1.25	
	Tightening torque N-m (lb. ft.)	10 - 20 (7-15 in.)	
	Gap	1.52 mm (0.060 in.)	
	Number per cylinder	1	
Distributor	Manufacturer	Not Applicable	
	Model	-	

Electrical - Suppression

Locations & type	Not Available
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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description

ALL

Body

Structure	Unitized Body Construction Including Front End Structure With Bolted - On Fenders And Hood
Bumper system front - rear	Bumper Fascias Are Attached To Steel Impact Bar And Dual Energy Absorbers For Collision Energy Absorption. Meets 5 MPH Corporate Bumper Labeling Requirements.
Anti-corrosion treatment	The Paint Shop Process Includes, Phosphate, ELPO, Sealers, Some Colors With Primers, and Top Coats.

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		High Solids Basecoat/ Clearcoat Enamel
Hood	Material & mass	Two Sided Galvanized Steel, 17.91 kg (39.5 lbs.)
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Material & mass	Two Sided Galvanized Steel, 10.6 kg (23.4 lbs.)
	Type (counterbalance, other)	Torsion Rods
	Internal release control (elec., mech., n.a.)	Electrical - Optional
Hatchback lid	Material & mass	Not Applicable
	Type (counterbalance, other)	"
	Internal release control (elec., mech., n.a.)	"
Tailgate	Material & mass	"
	Type (drop, lift, door)	"
	Internal release control (elec., mech., n.a.)	"
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	"
Window regulator type (cable, tape, flex drive, etc.)	Front	Not Applicable
	Rear	Elec. Pinion Gear & Sector Arm
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Bucket With Polyurethane Padding
	Rear	Bench With Polyurethane Padding
	3rd seat	Not Applicable
Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Reclining Bucket With Polyurethane Padding
	Rear	Fixed Bench With Polyurethane Padding*
	3rd seat	Not Applicable

*For Beretta GT 60/40 Split Folding Rear Seat Standard

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized Frame Body - Frame Integral With Bolt - On Powertrain Cradle
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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Engine Code/Description

ALL

Climate Control System

Air conditioning (std., opt., man., auto.)	Standard With Manual Operation And Electrically Operated Temperature Door	
Condenser	Type	Serpentine
	Eff. face area (sq. mm.)	265,281
	Fins per inch	14
Evaporator	Type	3-5-5 Parallel Rib "S" Low Plate Type, Round Tank
	Eff. face area (sq. mm.)	45,212
	Fins per inch	14
Heater core	Material	Aluminum
	Eff. face area (sq. mm.)	29,210
	Fins per inch	38
Compressor	Type	V5 Compressor
	Displacement (cc.)	9.2 cu. in. = 151 cc.
	Manufacturer	Harrison Division
	A/C pulley ratio	1.24 1.35 (L82 Engine)
Accumulator	Type	None
	Height (mm.)	None
	Diameter (mm.)	None
Receiver	Type	Aluminum
	Height (mm.)	169
	Diameter (mm.)	77
Refrigerant control (CCOT, TVS, etc.)	TXV	
Heater water valve (yes / no)	No	
Refrigerant (R - 12, R - 134a, etc.)	R - 134a	
Charge level (lbs. - oz.)	2.25 lbs	
Cold engine lockout switch (yes / no)	Yes	
Wide open throttle cutout switch (yes / no)	Yes	

MVMA Specifications

Vehicle Line BERETTA
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METRIC (U.S. Customary)

Model Code/Description

ALL

Convenience Equipment (standard, optional, n.a.)

Clock (digital, analog)	Part of Radio Package	
Compass / thermometer	Not Available	
Console (floor, overhead)	Standard Full Floor	
Defroster, electric windshield	Not Available	
Defroster, electric backlight	Optional (C49)	
Electronic	Diagnostic monitor (integrated, individual)	Not Available
	Instrument cluster (list instruments)	(UH6) Standard: Temp, Fuel, and Speed (UB3) Optional : Oil Pressure, Volts, Trip Odom & Tach
	Keyless entry	Not Available
	Tripminder (avg. spd., fuel)	Not Available
	Voice alert (list items)	Not Available
	Other	Key Left In/Headlight On/Turn Signal On Warning - Standard
Fuel door lock (remote, key, electric)	Not Available	
Integrated Child Seating	Std./opt. & location in vehicle	
	Number of occupants	
	Occupant weight/height (min. & max.)	
	Restraint system description (3 or 5-point belts/booster seat capability)	
Lamps	Auto head on/off delay, dimming	Standard (T61) Daytime Running Lamps
	Cornering	Not Available
	Courtesy (map, reading)	Standard: Footwell, Dome Optional: Reading (DC 4)
	Door lock, ignition	Not Available
	Engine compartment	Not Available
	Fog	Standard On Z26 (T96)
	Glove compartment	Not Available
	Trunk	Standard
	Illuminated entry system (list lamps, activation)	Footwell, Dome with Theater Dimming, Front Door Handle Activation - Std.
	Other	Ash Tray Lamp Standard
Mirrors	Day / night (auto., man.)	Optional (DC4) (Manual)
	L.H. (remote, power, heated)	Standard (D68) Remote
	R.H. (convex, remote, power, heated)	Standard (D68) Remote
	Visor vanity (RH / LH, illuminated)	Std. RHLH No Light, No Cover, Opt. RHLH No Light Covered
Navigation system (describe)	Not Available	
Parking brake-auto release (warning light)	Standard (Manual Release) Warning Light In Lower Area of Speedometer	

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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description

ALL

Convenience Equipment (standard, optional, n.a.)

Power equipment	Deck lid (release, pull down)		Optional (A90) Power Release
	Door locks (manual, automatic, describe system)		Standard (AU4) Automatic Door Lock/Unlock
	Seats	2 - 4 - 6 way, etc.	Not Available
		Reclining (R.H., L.H.)	Not Available
		Memory (R.H., L.H., preset recline)	Not Available
		Support (lumbar, hip, thigh, etc.)	Not Available
		Heated (R.H., L.H., other)	Not Available
	Side windows		Optional (A31)
	Vent windows		Not Available
	Rear windows		Not Available
Radio systems	Antenna (location, whip, w/shield, power)		(US6) Standard, Fixed RH Front Fender
	Standard	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	(UM7) AM/FM Stereo, Seek And Scan And Clock
	Optional		(UM6) AM/FM Stereo Cassette, Seek And Scan And Clock (U1C) AM/FM Stereo Seek And Scan, Clock ETR & Compact Disc.
	Speaker (number, location)		(UX7) Standard 4 Dual Front Door Mounted (U79) Optional 4 Dual Front Kick Panel, Dual Rear Shelf
Roof: open air or fixed (flip-up, sliding, "T")			(AD3) Optional Hinged Removeable
Speed control device			(K34) Optional
Speed warning device (light, buzzer, etc.)			Not Available
Tachometer (rpm)			(UB3) Optional
Telephone system (describe)			Not Available
Theft deterrent system			Not Available

Trailer Towing

Towing capable	Yes / No	Yes
Engine / transmission / axle	Std. / Opt.	Standard LN2/ MD9 3-Speed Automatic Optional Optional LB2 w/ 4Automatic
Tow class (I, II, III)*	Std. / Opt.	
Max. gross trailer wgt. (lbs.)	Std. / Opt.	1000 lbs.
Max. trailer tongue load (lbs.)	Std. / Opt.	100 lbs.
Towing package available	Yes / No	No

* Class I - 2,000 lbs. Class II - 3,500 lbs. Class III - 5,000 lbs.

MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (*) _____

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each vehicle line. SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Model Code/Description	SAE Ref. No.	ALL
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Width

Tread (front)	W101	1417 (55.8)
Tread (rear)	W102	1404 (55.3)
Vehicle width	W103	1727 (67.9)
Body width at SgRP (front)	W117	1724 (67.9)
Vehicle width (front doors open)	W120	3901 (153.6)
Vehicle width (rear doors open)	W121	N/A
Tumble-home (degrees)	W122	26.0°
Outside mirror width	W410	1957 (77.0)

Length

Wheelbase	L101	2627 (103.4)
Vehicle length	L103	4756 (187.2)
Overhang (front)	L104	1066.7 (42.0)
Overhang (rear)	L105	1062.5 (41.8)
Upper structure length	L123	2693 (106.0)
Rear Wheel C/L "X" coordinate	L127	260 (10.2)

Height **

Passenger distribution (front/rear)	PD1 2,3	2/3
Trunk/cargo load		**
Vehicle height	H101	1351 (53.2)
Cowl point to ground	H114	926 (36.5)
Deck point to ground	H138	1001 (39.4)
Rocker panel-front to ground	H112	220 (8.7)
Rocker panel-rear to ground	H111	228 (8.97)
Windshield slope angle (degrees)	H122	61.5°
Backlight slope angle (degrees)	H121	65.0°

Ground Clearance **

Front bumper to ground	H102	257.7 (10.1)
Rear bumper to ground	H104	271.3 (10.7)
Bumper to ground front at curb mass (wt.)	H103	275.7 (10.9)
Bumper to ground rear at curb mass (wt.)	H105	292.1 (11.5)
Angle of approach (degrees)	H106	13°
Angle of departure (degrees)	H107	19°
Ramp breakover angle (degrees)	H147	15°
Axle differential to ground (front/rear)	H153	166 (6.5)
Min. running ground clearance	H156	143 (5.6)
Location of min. running ground clear.	H148	Front Suspension

** All Vehicle Height And Ground Clearance Are Made Using EPA Loaded Vehicle Weight, Loading Conditions. EPA loaded vehicle weight is the base vehicle weight plus all coolant and fluids necessary for operation plus 100% of the fuel capacity, plus the weight of all options and accessories which weigh three pounds or more and which are sold on at least 33% of the car line, plus two occupants.

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MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (●) _____

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description	SAE Ref. No.	ALL
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Front Compartment

SgRP front, "X" coordinate	L31	3138 (123.5)
Effective head room	H61	956 (37.6)
Max. effective leg room (accelerator)	L34	1097 (43.2)
SgRP to heel point	H30	239 (9.41)
SgRP to heel point	L53	896 (35.3)
Back angle (degrees)	L40	26.5°
Hip angle (degrees)	L42	101.5°
Knee angle (degrees)	L44	134°
Foot angle (degrees)	L46	89°
Design H-point front travel	L17	212 (8.35)
Normal driving & riding seat track trvl.	L23	189 (7.44)
Shoulder room	W3	1360 (53.5)
Hip room	W5	1249 (49.2)
*** Upper body opening to ground	H50	1233 (48.5)
Steering wheel maximum diameter*	W9	386 (15.2)
Steering wheel angle (degrees)	H18	18.5°
Accel. heel pt. to steer. whl. cntr.	L11	533.9 (21.0)
Accel. heel pt. to steer. whl. cntr.	H17	620.9 (24.4)
Undepressed floor covering thickness	H67	16 (.63)

Front Compartment Interior Dimensions are Measured with the Seating Reference Point (SgRP) _____ mm forward and _____ mm Upward of Rearmost Position.

Rear Compartment

SgRP point couple distance	L50	760 (29.9)
Effective head room	H63	930 (36.6)
Min. effective leg room	L51	826 (32.5)
SgRP (second to heel)	H31	258 (10.2)
Knee clearance	L48	-38 (-1.5)
Shoulder room	W4	1402 (55.2)
Hip room	W6	1292 (50.9)
*** Upper body opening to ground	H51	N/A
Back angle (degrees)	L41	24.5°
Hip angle (degrees)	L43	80.5°
Knee angle (degrees)	L45	86.5°
Foot angle (degrees)	L47	119.5°
Depressed floor covering thickness	H73	16 (.63)

Luggage Compartment

*** Usable luggage capacity L (cu. ft.)	V1	371 (13.1 cu. ft.)
Liftover height	H195	840 (33.1)

Interior Volumes (EPA Classification)

Vehicle class	Compact
Interior volume index including trunk/cargo (cu. ft.)**	103.4
Trunk/cargo index (cu. ft.)	13.1 cu. ft.

* See page 14.

** See definition page 33.

All linear dimensions are in millimeters (inches) unless otherwise noted.

*** EPA Loaded Vehicle Weight, Loading Conditions



MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (#) _____

METRIC (U.S. Customary) Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description

2-DOOR NOTCHBACK COUPES

Station Wagon/MPV*
 -Third Seat

SAE Ref. No. (NOT APPLICABLE)

Seat facing direction	SD1	
SgRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
SgRP to heel point	H87	
Knee clearance	L87	
Back angle (degrees)	L88	
Hip angle (degrees)	L89	
Knee angle (degrees)	L90	
Foot angle (degrees)	L91	

Station Wagon/MPV* - Cargo Space (NOT APPLICABLE)

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Min. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
** Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index m ³ (ft. ³)	V2	
Hidden cargo volume index m ³ (ft. ³)	V4	
Cargo volume index-rear of 2-seat	V10	
Cargo volume index*	V6	
Cargo width at floor*	W500	
Maximum cargo height*	H505	

Hatchback - Cargo Space (NOT APPLICABLE)

Cargo length at front seatback height	L208	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index m ³ (ft. ³)	V3	
Hidden cargo volume index m ³ (ft. ³)	V4	
Cargo volume index - rear of 2-seat	V11	

All linear dimensions are in millimeters (inches) unless otherwise noted.

* MPV - Multipurpose Vehicle

** EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (*)

METRIC (U.S. Customary)

Model Code/
Description

2-DOOR NOTCHBACK COUPES

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location	
Front	X - Fiducial mark to vertical zero grid line - front measured horizontally, from the zero grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt. Y - Fiducial mark to centerline of car - front, width measurement made from centerline car to fiducial mark located on top of the front seat adjuster mounting bolt. Z - Fiducial mark to horizontal zero grid line - front, measured vertically from zero grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.	
Rear	X - Fiducial mark to vertical zero grid line - rear, measured horizontally from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal.) Y - Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rail (compartment pan - longitudinal.) Z - Fiducial mark to horizontal zero grid line - rear, measured vertically from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal.)	
NOTE: Provide 3 of 4 Fiducial Mark Locations		
Front	W21**	346 (13.6)
	L54**	2761 (108.7)
	H81**	211 (8.3)
	H161**	259.8 (10.2)
	H163**	240.5 (9.5)
Rear	W22**	440 (17.3)
	L55**	4953 (195)
	H82**	362 (14.3)
	H162**	426.3 (16.8)
	H164**	405.3 (15.9)

* Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks.

** Reference - SAE Recommended Practice J1100 - Motor Vehicle Dimensions.

*** EPA Loaded Vehicle Weight, Loading Conditions

All linear dimensions are in millimeters (inches) unless otherwise noted.

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MVMA Specifications
METRIC (U.S. Customary)

Vehicle Line BERETTA
 Model Year 1995 Issued 9-94 Revised (*) _____

Code	Equipment	Optional Equipment Differential Mass (weight)*			Remarks Restrictions, Requirements
		MASS, kg. (lb.)			
		Front	Rear	Total	
AD3	Sunroof - Hinged Roof	4.8 (10.6)	3.8 (8.4)	8.6 (19.0)	
AM9	Split Second Seat Back	0.2 (0.4)	1.0 (2.2)	1.2 (2.6)	
AP9	Convenience Net	-0.2 (-0.4)	0.8 (1.7)	0.6 (1.3)	
A31	Power Windows	1.4 (3.1)	2.2 (4.8)	3.6 (7.9)	
A44	Adjuster-Pass Seat Manual 4-Way	0.8 (1.7)	0.4 (0.9)	1.2 (2.6)	
A90	Power Trunk Opener	-2 (-0.4)	1.0 (2.2)	.8 (1.8)	
B37	Floor Mats - Front & Rear	1.6 (3.5)	1.0 (2.2)	2.6 (5.7)	
CD4	Intermittent Windshield Wiper Sys.	.2 (0.4)	0 0	.2 (0.4)	
C49	Electric Rear Window Defogger	0 0	.4 (0.9)	.4 (0.9)	
D34	Mirror - I/S Sunshade	0.2 (0.4)	0 0	0.2 (0.4)	
D52	Spoiler - Rear End Sport	-1.0 (-2.2)	3.4 (7.5)	2.4 (5.3)	
FE2	Ride & Handling Susp. System	0.4 (0.9)	0.8 (1.7)	1.2 (2.6)	
FE3	Sport Suspension System	0.4 (0.9)	0.8 (1.7)	1.2 (2.6)	
KO5	Engine Block Heater	.2 (0.4)	0 (0)	.2 (0.4)	
K34	Electronic Speed Control	1.8 (3.9)	0 (0)	1.8 (3.9)	
L82	3.1 Liter V6	45 (99)	-3.0 (-6.6)	42 (93)	
MD9	Automatic Transmission	18.2 (40.1)	-1.6 (-3.5)	16.6 (36.6)	With Base LN2 Engine Only

* Also see Engine - General Section for dressed engine mass (weight.)

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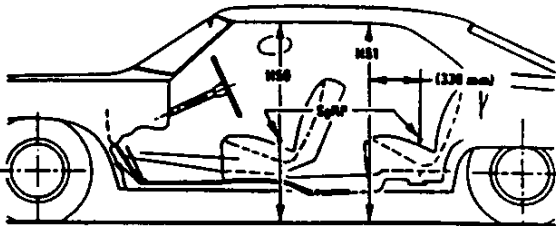
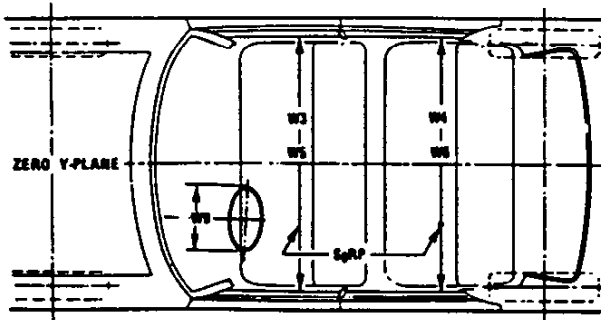
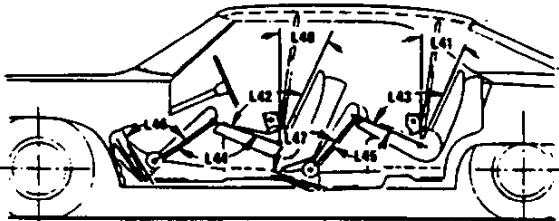
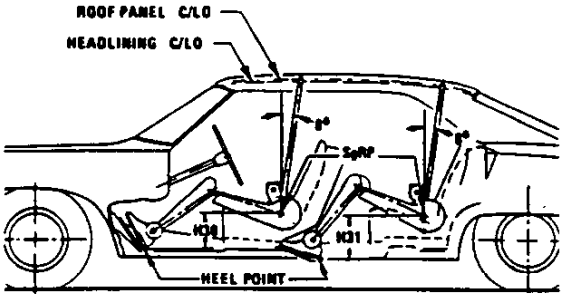
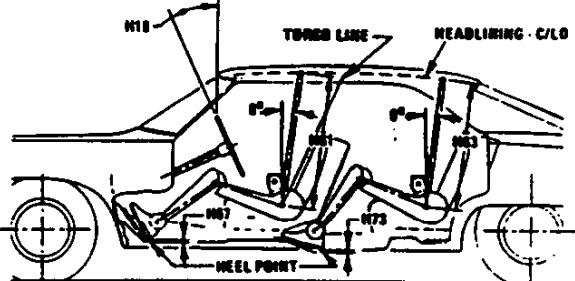
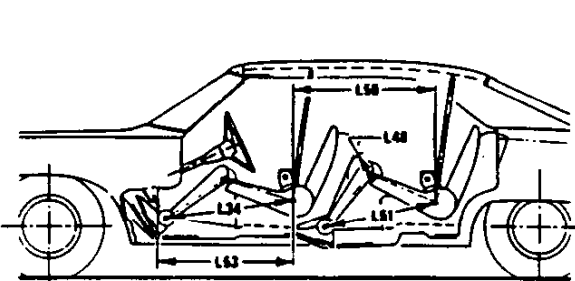
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MVMA Specifications Form

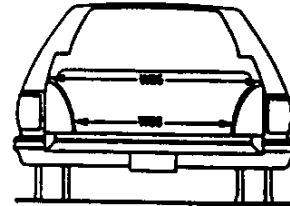
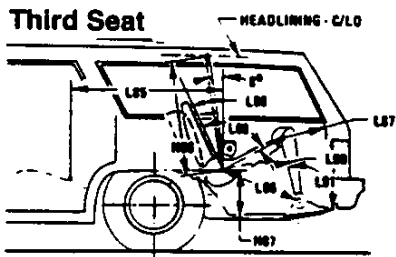
METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet

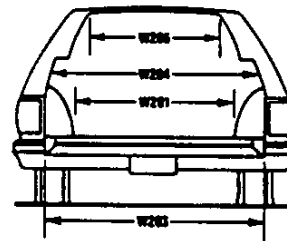
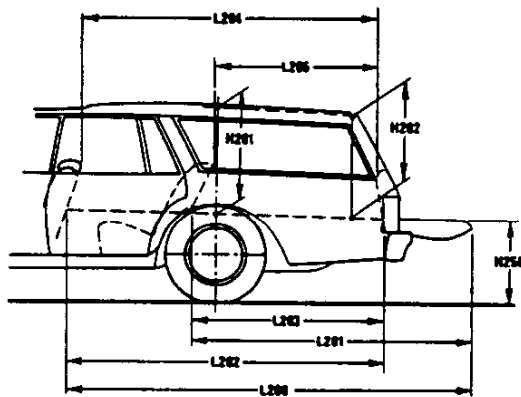


NVMA Specifications
METRIC (U.S. Customary)

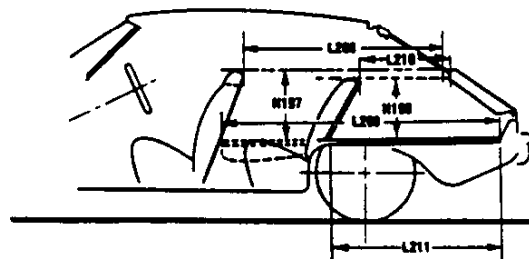
Interior Vehicle And Body Dimensions – Key Sheet



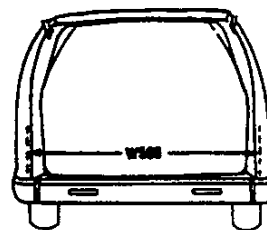
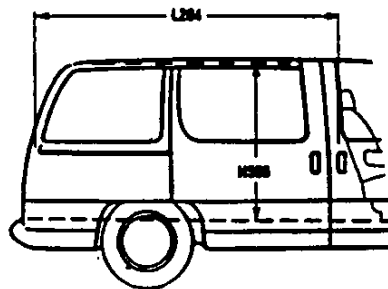
Cargo Space



Station Wagon



Hatchback



Multipurpose Vehicle

VMMA Specifications

METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which -

- (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- (b) Has coordinates established relative to the design vehicle structure;
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations."

Width Dimensions

- W101 TREAD - FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD - REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- W117 BODY WIDTH AT SgRP - FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH - FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH - REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE - HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.
- W410 OUTSIDE MIRROR WIDTH: The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

Length Dimensions

- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHAND - FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L105 OVERHANG - REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H111 ROCKER PANEL - REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H112 ROCKER PANEL - FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD - TIRE RADIUS - REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND - CURB MASS (WT.). Measured in the same manner as H102.
- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND - CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

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MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

Luggage Compartment Dimensions

- V1 USABLE LUGGAGE CAPACITY - Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.

Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The Interior Volume Index estimates the space in a car. It is based on four measurements - head room, shoulder room, hip room, and leg room - for the front and rear seats, plus trunk capacity.

The Trunk/Cargo Index is an estimate of the size of the trunk/cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat.

Station Wagon / MPV - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE - THIRD. The dimension measured horizontally from the SgRP - second to the SgRP - third.
- L86 EFFECTIVE LEG ROOM - THIRD. The dimension measured along a line from the ankle pivot center to the SgRP - third plus 254 mm (10.0 in.).
- L87 KNEE CLEARANCE - THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE - THIRD. Measured in the same manner as L41.
- L89 HIP ANGLE - THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE - THIRD. Measured in the same manner as L45.
- L91 FOOT ANGLE - THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM - THIRD. Measured in the same manner as W4.
- W86 HIP ROOM - THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM - THIRD. The dimension, measured along a line 8 deg. from the SgRP - third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 SgRP - THIRD TO HEEL POINT.
- SD1 SEAT FACING DIRECTION - THIRD.

Station Wagon / MPV - Cargo Space Dimensions

- L200 CARGO LENGTH - OPEN - FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH - OPEN - SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

- L202 CARGO LENGTH - CLOSED - FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH - CLOSED - SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT - FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT - SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH - WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhouses at floor level. For any vehicle not trimmed, measure to the sheet metal.
- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- W500 CARGO WIDTH AT FLOOR. The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- H505 MAXIMUM CARGO HEIGHT. The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.

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MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

V2 STATION WAGON

Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT.

The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V5 TRUCKS AND MPV'S WITH OPEN AREA.

Measured in inches:

$$\frac{L506 \times W505 \times H503}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

V8 HIDDEN LUGGAGE CAPACITY – REAR OF SECOND SEAT.

The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.

V10 STATION WAGON CARGO VOLUME INDEX.

Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

Hatchback – Cargo Space Dimensions

All hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For electronically adjusted seats, see the manufacturer's specifications for Design "H" Point).

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.

L209 CARGO LENGTH AT FLOOR – FRONT. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "X" plane.

L211 CARGO LENGTH AT FLOOR – SECOND SEATBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seatback to the undepressed floor covering.

V3 HATCHBACK.

Measured in inches:

$$\frac{L208 + L209}{2} \times W4 \times H197 = \text{ft}^3$$

Measured in mm:

$$\frac{L208 + L209}{2} \times W4 \times H197 = \text{m}^3 \text{ (cubic meter)}$$

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:

$$\frac{L210 + L211}{2} \times W4 \times H198 = \text{ft}^3$$

Measured in mm:

$$\frac{L210 + L211}{2} \times W4 \times H198 = \text{m}^3 \text{ (cubic meter)}$$



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MVMA Specifications

METRIC (U.S. Customary)

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