



# CELEBRITY<sup>®</sup>

1989 CHEVROLET<sup>®</sup>



THE *Heartbeat* OF AMERICA  TODAY'S CHEVROLET<sup>™</sup>



1



# CHEVROLET SPECIFICATIONS — 1989 CELEBRITY

## MODELS

## PASSENGERS

Celebrity 4-Door Notchback Sedan (1AW19*)	6
Celebrity 4-Door 2-Seat Wagon (1AW35/B5E*)	6
Celebrity 4-Door 3-Seat Wagon (1AW35/AQ4*)	8

\*Available with ZV8 Eurosport Equipment Package.

## DIMENSIONS (inches)

### EXTERIOR

Wheelbase	104.9
Length (overall)	Sedan 188.3 Wagon 190.8
Width (overall)	69.3
Height (overall)	Sedan 54.1 Wagon 54.3

### INTERIOR

Head Room—Front/Rear	Sedan 38.6/38.0 Wagon 38.6/38.9
Leg Room—Front/Rear	Sedan 42.1/36.4 Wagon 42.1/35.6
Hip Room—Front/Rear	Sedan 52.4/52.7 Wagon 52.4/52.7
Shoulder Room—Front/Rear	Sedan, Wagon 56.2/56.2

### LUGGAGE/CARGO CAPACITY (cu. ft.)

Luggage Compartment	Sedan 16.2
Cargo Capacity	
with 2nd & 3rd Seat Down	Wagon 75.1
with 2nd Seat Up	Wagon 41.6

RATED FUEL TANK CAPACITY (gallons) 15.7

## POWER TEAMS

### STANDARD ENGINE

RPO LR8, 2.5 Liter (151 cu. in.) L4 with Electronic Fuel Injection (EFI)

### OPTIONAL ENGINE

RPO LB6, 2.8 Liter (173 cu. in.) V6 with Multi-Port Fuel Injection (MPI)

## STANDARD TRANSMISSION

3-Speed Automatic (Except Wagon w/V6)  
4-Speed Automatic Overdrive (Required with V6 Wagon)

## STANDARD EQUIPMENT SUMMARY

Composite Halogen Headlamps with Bright Bezels  
5-MPH Bumpers  
Full Wheel Covers  
All-Season Steel Belted Radial Blackwall Tires  
Center High-Mounted Stop Lamp  
Dual Outside Sport Mirrors (L.H. Remote Control)  
Wide Body Side Moldings  
Tinted Glass  
3-Point Safety Belts, Driver, Front and Outer Rear Passenger Positions (Lap Belt, Center Rear)  
Passenger and Trunk or Cargo Area Floor Carpeting  
AM/FM Stereo Radio with Seek and Scan and Digital Clock (May be Deleted for Credit)  
Day/Night Rear View Mirror  
Headlamp on Reminder  
Instrument Panel Courtesy Lamps (Includes Rear Dome Lamp on Wagon)  
Side Window Defoggers  
Electric Speedometer  
Power Front Disc/Rear Drum Brake System  
Power Rack and Pinion Steering  
MacPherson Strut Front Suspension with Stabilizer Bar  
Trailing-Arm Rest Suspension with Integral Stabilizer Bar  
Aluminum-Coated Exhaust System Joints  
Rear Quarter Vent Window on 3-Seat Wagon

## SEAT STYLES

### STANDARD SEATS

Cloth Bench with Center Armrest and Adjustable Head Restraints

### OPTIONAL SEATS

Buckets with Adjustable Head Restraints and Center Console  
55/45 Seat with Adjustable Head Restraints and Center Armrest  
CL Custom Cloth 45/45 Seat with Center Console or 55/45 Seat with Center Armrest

# CELEBRITY EUROSPORT SEDAN

## 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		Dk Blue	Lt Brown	Gray	Maroon
MODEL	SEAT TYPE				
1AW19	Cloth Bench .....	CDD1	CEE1	CQQ1	CFF1
	* Cloth Bucket .....	CDD2	CEE2	CQQ2	CFF2
	Cloth 55/45 .....	CDD3	CEE3	CQQ3	CFF3
	Custom Cloth 55/45 (CL) .....	FDD3	FEE3	FQQ3	FFF3
	* Custom Cloth 45/45 (CL) .....	FDD5	FEE5	FQQ5	FFF5

\*Incls Console

## CUSTOM TWO-TONE PAINT

(D84 Must be Specified in "Plus" (+) Option Section of Order Worksheet)

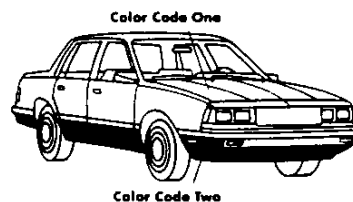
Exterior Paint Color	Color Code 1	Color Code 2	Dk Blue	Lt Brown	Gray	Maroon
Black & Silver (Met)	19	12			●	●
Gray, Med (Met) & Silver (Met)	15	12			●	●
Red, Dk (Met) & Silver (Met)	75	12			●	●
Silver (Met) & Black	12	19			●	●

## SOLID PAINT APPLICATION

Exterior Paint Color	Color Code 1	Color Code 2	Dk Blue	Lt Brown	Gray	Maroon
Black	19	19			●	●
Blue, Lt (Met)	26	26	●			
Brown, Lt (Met)	57	57		●		
Gray, Medium (Met)	15	15			●	●
Red, Dk (Met)	75	75			●	●
Rosewood, Medium (Met)	78	78				●
Silver (Met)	12	12	●		●	●
White	11	11	●	●	●	●

## POWER TEAMS

ENGINE OPTION CONDITION	FINAL DRIVE RATIO	
	2.84	3.33
WITH NA5 STANDARD EMISSIONS		
LR8 MX1 .....	Std	—
LB6 MX1 .....	Std	—
MX0 .....	—	Std
WITH YF5 CALIFORNIA EMISSIONS		
LR8 MX1 .....	Std	—
LB6 MX1 .....	Std	—
MX0 .....	—	Std



D84 CUSTOM TWO-TONE

# CELEBRITY EUROSPORT SEDAN

## 11,945.00 Model 1AW19 Celebrity Eurosport Sedan

230.00 Eurosport Base Equipment (Preferred Equipment Group AZAB Only)

### PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

	AZA1	AZA2	AZA3
1,141.00 Preferred Equipment Group 1 (w/LR8 Eng)			
1,167.00 Preferred Equipment Group 1 (w/LB6 Eng)			
(-375.00) Preferred Equipment Group 1 Savings			
Air Conditioning	x	x	x
Battery, Heavy-Duty (w/LB6 Eng Only)	x	x	x
Floor Mats, Color-Keyed Front and Rear	x	x	x
Lighting, Auxiliary	x	x	x
Molding Package, Exterior	x	x	x
1,755.00 Preferred Equipment Group 2 (w/LR8 Eng)			
1,781.00 Preferred Equipment Group 2 (w/LB6 Eng)			
(-600.00) Preferred Equipment Group 2 Savings			
Gage Package w/Trip Odometer		x	x
Power Door Lock System		x	x
Speed Control: Electronic, with Resume Speed		x	x
Steering Wheel, Comfortilt		x	x
Windshield Wiper System, Intermittent		x	x
2,242.00 Preferred Equipment Group 3 (w/LR8 Eng)			
2,268.00 Preferred Equipment Group 3 (w/LB6 Eng)			
(-800.00) Preferred Equipment Group 3 Savings			
Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System			x
Mirrors: Sport, Twin Remote			x
Power Trunk Opener			x
Power Windows			x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code AZAB (Incls LH Remote, RH Manual Sport Mirrors, 2.5 Liter EFI L4 Eng, 3-Speed Automatic Trans, AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System, P195/75 R14 Blackwall Radial Tires, Rally Wheels, Exterior Ornamentation, Sport Steering Wheel, Sport Suspension and Red Accent Stripe.)

### REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

ENGINE (Must Order One)			RADIO EQUIPMENT		
N.C.	LR8	2.5 Liter EFI L4	V.P.S.	---	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System (Base)
610.00	LB6	2.8 Liter MFI V6 (Reqs C60 Air)	V.P.S.	UM6	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System (Incl w/Group AZA3)
TRANSMISSION (Must Order One)			INTERIOR TRIM		
175.00	MX0	4-Speed Automatic (Reqs LB6 Eng)	N.C.	C**1	Cloth Bench
N.C.	MX1	3-Speed Automatic	257.00	C**2	Cloth Bucket
EMISSION (Must Order One)			133.00	C**3	Cloth 55/45
N.C.	NA5	Standard Emissions	385.00	F**3	Custom Cloth 55/45
100.00	YF5	California Emissions	335.00	F**5	Custom Cloth 45/45
TIRES (May Choose One)					
N.C.	---	P195/75 R14 B/W (Radial) (Base)			
90.00	QLW	P195/70 R14 B/W (Radial)			
WHEELS (May Choose One)					
N.C.	---	Rally Wheels (Base)			
143.00	PD7	Aluminum Wheels			
CLIMATE CONTROL					
775.00	C60	Air Conditioning (Incl w/Groups AZA1, AZA2 and AZA3)			
145.00	C49	Fogger, Rear Window: Electric			
20.00	K05	Heater, Engine Block			

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# CELEBRITY EUROSPOUR SEDAN

## REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

ADDITIONAL OPTIONS					
40.00	V08	Cooling, Heavy-Duty (w/C60)	55.00	Z17	Molding Package, Exterior (Incl w/D84 Paint and Groups AZA1, AZA2 and AZA3)
70.00	V08	Cooling, Heavy-Duty (w/o C60)			
17.00	B32	Floor Covering: Mats, Color-Keyed. Front Only (Incl w/Groups AZA1, AZA2 and AZA3)	148.00	D84	Paint, Custom Two-Tone (Incls Z17 Molding Package) (w/Group AZAB)
12.00	B33	Floor Covering: Mats, Color-Keyed. Rear Only (Incl w/Groups AZA1, AZA2 and AZA3)	93.00	D84	Paint, Custom Two-Tone (Incls Z17 Molding Package) (w/o Group AZAB)
64.00	U39	Gage Package w/Trip Odometer (Incl w/Groups AZA2 and AZA3)	195.00	AU3	Power Door Lock System (Incl w/Groups AZA2 and AZA3)
N.C.	VK3	License Plate Bracket, Front	240.00	AG1	Power Seat, Driver (Reqs 55/45 or 45/45 Seats)
			90.00	A78	Seat Backs, Reclining (Reqs 55/45 or 45/45 Seats)





# CELEBRITY NON-EUROSPORT SEDAN

## 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		Dk Blue	Lt Brown	Gray	Maroon
MODEL	SEAT TYPE				
1AW19	Cloth Bench .....	CDD1	CEE1	CQQ1	CFF1
	* Cloth Bucket .....	CDD2	CEE2	CQQ2	CFF2
	Cloth 55/45 .....	CDD3	CEE3	CQQ3	CFF3
	Custom Cloth 55/45 (CL) .....	FDD3	FEE3	FQQ3	FFF3
	* Custom Cloth 45/45 (CL) .....	FDD5	FEE5	FQQ5	FFF5

\*Incls Console

## CUSTOM TWO-TONE PAINT

(D84 Must be Specified in "Plus" (+) Option Section of Order Worksheet)

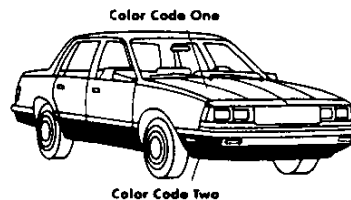
Exterior Paint Color	Color Code 1	Color Code 2	Dk Blue	Lt Brown	Gray	Maroon
Black & Silver (Met)	19	12			●	●
Blue, Dk (Met) & Silver (Met)	29	12	●		●	
Red, Dk (Met) & Silver (Met)	75	12			●	●
Silver (Met) & Med Gray (Met)	12	15	●		●	●

## SOLID PAINT APPLICATION

Exterior Paint Color	Color Code 1	Color Code 2	Dk Blue	Lt Brown	Gray	Maroon
Black	19	19			●	●
Blue, Dk (Met)	29	29	●		●	
Blue, Lt (Met)	26	26	●			
Brown, Lt (Met)	57	57		●		
Brown, Dk (Met)	59	59		●		
Gray, Med (Met)	15	15			●	●
Red, Dk (Met)	75	75			●	●
Rosewood, Med (Met)	78	78				●
Silver (Met)	12	12	●		●	●
White	11	11	●	●	●	●

## POWER TEAMS

ENGINE OPTION CONDITION	FINAL DRIVE RATIO	
	2.84	3.33
WITH NA5 STANDARD EMISSIONS		
LR8 MX1	Std	—
LB6 MX1	Std	—
MX0	—	Std
WITH YF5 CALIFORNIA EMISSIONS		
LR8 MX1	Std	—
LB6 MX1	Std	—
MX0	—	Std



D84 CUSTOM TWO-TONE

# CELEBRITY NON-EUROSPORT SEDAN

11,945.00 **Model 1AW19 Celebrity Sedan**

## PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

	ACA1	ACA2	ACA3
911.00 Preferred Equipment Group 1 (w/LR8 Eng)			
937.00 Preferred Equipment Group 1 (w/LB6 Eng)			
(-375.00) Preferred Equipment Group 1 Savings			
Air Conditioning	x	x	x
Battery, Heavy-Duty (w/LB6 Eng Only)	x	x	x
Floor Mats, Color-Keyed Front and Rear	x	x	x
Lighting, Auxiliary	x	x	x
Molding Package, Exterior	x	x	x
1,525.00 Preferred Equipment Group 2 (w/LR8 Eng)			
1,551.00 Preferred Equipment Group 2 (w/LB6 Eng)			
(-600.00) Preferred Equipment Group 2 Savings			
Gage Package w/Trip Odometer		x	x
Power Door Lock System		x	x
Speed Control: Electronic, with Resume Speed		x	x
Steering Wheel, Comfortilt		x	x
Windshield Wiper System, Intermittent		x	x
2,012.00 Preferred Equipment Group 3 (w/LR8 Eng)			
2,038.00 Preferred Equipment Group 3 (w/LB6 Eng)			
(-800.00) Preferred Equipment Group 3 Savings			
Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System			x
Mirrors: Sport, Twin Remote			x
Power Trunk Opener			x
Power Windows			x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code ACAB (Incls LH Remote, RH Manual Sport Mirrors, 2.5 Liter EFI L4 Eng, 3-Speed Automatic Trans, AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System and P185/75 R14 Blackwall Radial Tires).

## REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

<b>ENGINE (Must Order One)</b>		<b>RADIO EQUIPMENT</b>	
N.C.	LR8 2.5 Liter EFI L4	V.P.S.	--- Electronically Tuned AM/FM Stereo
610.00	LB6 2.8 Liter MFI V6 (Reqs C60 Air)		Radio w/Seek-Scan and Digital
<b>TRANSMISSION (Must Order One)</b>			Clock w/Extended Range Sound
175.00	MX0 4-Speed Automatic (Reqs LB6 Eng)		System (Base)
N.C.	MX1 3-Speed Automatic	V.P.S.	UM6 Electronically Tuned AM/FM Stereo
<b>EMISSION (Must Order One)</b>			Radio w/Seek-Scan, Stereo Cassette
N.C.	NA5 Standard Emissions		Tape and Digital Clock w/Extended
100.00	YF5 California Emissions		Range Sound System (Incl
<b>TIRES (May Choose One)</b>			w/Group ACA3)
N.C.	--- P185/75 R14 B/W (Radial) (Base)	V.P.S.	UL5 Radio Delete (Reqs Group ACAB)
68.00	QFF P185/75 R14 W/W (Radial)	<b>INTERIOR TRIM</b>	
<b>WHEELS (May Choose One)</b>		N.C.	C**1 Cloth Bench
N.C.	--- Full Wheel Covers (Base)	257.00	C**2 Cloth Bucket
56.00	ZJ7 Rally Wheels	133.00	C**3 Cloth 55/45
65.00	PB2 Sport Wheel Covers	385.00	F**3 Custom Cloth 55/45
199.00	N91 Wire Wheel Covers w/Locks	335.00	F**5 Custom Cloth 45/45
<b>CLIMATE CONTROL</b>			
775.00	C60 Air Conditioning (Incl w/Groups ACA1 ACA2 and ACA3)		
145.00	C49 Defogger, Rear Window: Electric		
20.00	K05 Heater, Engine Block		

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# CELEBRITY NON-EUROSPORT SEDAN

## REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

ADDITIONAL OPTIONS					
40.00	V08	Cooling, Heavy Duty (w/C60)	148.00	D84	Paint, Custom Two-Tone (Incls Z17 Molding Package) (w/Group ACAB)
70.00	V08	Cooling, Heavy Duty (w/o C60)	93.00	D84	Paint, Custom Two-Tone (Incls Z17 Molding Package) (w/o Group ACAB)
17.00	B32	Floor Covering: Mats, Color-Keyed. Front Only (Incl w/Groups ACA1, ACA2 and ACA3)	195.00	AU3	Power Door Lock System (Incl w/Groups ACA2 and ACA3)
12.00	B33	Floor Covering: Mats, Color-Keyed. Rear Only (Incl w/Groups ACA1, ACA2 and ACA3)	240.00	AG1	Power Seat, Driver (Reqs 55/45 or 45/45 Seats)
64.00	U39	Gage Package w/Trip Odometer (Incl w/Groups ACA2 and ACA3)	90.00	A78	Seat Backs, Reclining (Reqs 55/45 or 45/45 Seats)
N.C.	VK3	License Plate Bracket, Front	26.00	F40	Suspension, Heavy-Duty Front and Rear
55.00	Z17	Molding Package, Exterior (Incl w/D84 Paint and Groups ACA1, ACA2 and ACA3)	64.00	G66	Suspension: Shock Absorbers, Inflatable Rear



# CELEBRITY EUROSPORT WAGON

## 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		Dk Blue	Lt Brown	Gray	Maroon
MODEL	SEAT TYPE				
1AW35	* Cloth Bench .....	CDD1	CEE1	CQQ1	CFF1
	@* Cloth Bucket .....	CDD2	CEE2	CQQ2	CFF2
	* Cloth 55/45 .....	CDD3	CEE3	CQQ3	CFF3
	# Custom Cloth 55/45 (CL) .....	FDD3	FEE3	FQQ3	FFF3
	@ # Custom Cloth 45/45 (CL) .....	FDD5	FEE5	FQQ5	FFF5

\*With AQ4, Third Seat Trim is Vinyl  
 #Incls Split Individual Folding Second Seat Back  
 @Incls Console

## CUSTOM TWO-TONE PAINT

(D84 Must be Specified in "Plus" (+) Option Section of Order Worksheet)

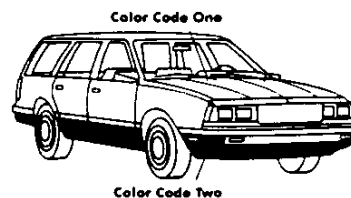
Exterior Paint Color	Color Code 1	Color Code 2	Dk Blue	Lt Brown	Gray	Maroon
Black & Silver (Met)	19	12			●	●
Gray, Med (Met) & Silver (Met)	15	12			●	●
Red, Dk (Met) & Silver (Met)	75	12			●	●
Silver (Met) & Black	12	19			●	●

## SOLID PAINT APPLICATION

Exterior Paint Color	Color Code 1	Color Code 2	Dk Blue	Lt Brown	Gray	Maroon
Black	19	19			●	●
Blue, Lt (Met)	26	26	●			
Brown, Lt (Met)	57	57		●		
Gray, Med (Met)	15	15			●	●
Red, Dk (Met)	75	75			●	●
Rosewood, Med (Met)	78	78				●
Silver (Met)	12	12	●		●	●
White	11	11	●	●	●	●

## POWER TEAMS

ENGINE OPTION CONDITION	FINAL DRIVE RATIO	
	2.84	3.33
WITH NA5 STANDARD EMISSIONS		
LR8 MX1 .....	Std	-
LB6 MX0 .....	-	Std
WITH YF5 CALIFORNIA EMISSIONS		
LR8 MX1 .....	Std	-
LB6 MX0 .....	-	Std



D84 CUSTOM TWO-TONE

# CELEBRITY EUROSPORT WAGON

- 12,375.00 **Model 1AW35/B5E Celebrity Eurosport 2-Seat Wagon**  
 12,625.00 **Model 1AW35/AQ4 Celebrity Eurosport 3-Seat Wagon**  
 230.00 **Eurosport Base Equipment (Preferred Equipment Group AVAB Only)**

## PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

	AVA1	AVA2	AVA3
1,133.00 Preferred Equipment Group 1 (w/LR8 Eng)			
1,159.00 Preferred Equipment Group 1 (w/LB6 Eng)			
(-375.00) Preferred Equipment Group 1 Savings			
Air Conditioning	x	x	x
Battery, Heavy-Duty (w/LB6 Eng Only)	x	x	x
Floor Mats, Color-Keyed Front and Rear	x	x	x
Lighting, Auxiliary	x	x	x
Molding Package, Exterior	x	x	x
1,912.00 Preferred Equipment Group 2 (w/LR8 Eng)			
1,938.00 Preferred Equipment Group 2 (w/LB6 Eng)			
(-600.00) Preferred Equipment Group 2 Savings			
Carrier, Roof (Black)		x	x
Gage Package w/Trip Odometer		x	x
Power Door Lock System		x	x
Power Liftgate Release		x	x
Speed Control: Electronic, with Resume Speed		x	x
Steering Wheel, Comfortilt		x	x
Windshield Wiper System, Intermittent		x	x
2,433.00 Preferred Equipment Group 3 (w/LR8 Eng)			
2,459.00 Preferred Equipment Group 3 (w/LB6 Eng)			
(-800.00) Preferred Equipment Group 3 Savings			
Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System			x
Mirrors: Sport, Twin Remote			x
Power Windows			x
Rear Compartment Decor, Deluxe			x
Security Package, Cargo Area			x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code AVAB (Incls LH Remote, RH Manual Sport Mirrors, 2.5 Liter EFI L4 Eng, 3-Speed Automatic Trans, AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System, P195/75 R14 Blackwall Radial Tires, Rally Wheels, Exterior Ornamentation, Sport Steering Wheel, Sport Suspension and Red Accent Stripe).

## REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

<b>ENGINE (Must Order One)</b>		<b>CLIMATE CONTROL</b>	
N.C.	LR8 2.5 Liter EFI L4	775.00	C60 Air Conditioning (Incl w/Groups AVA1, AVA2 and AVA3)
610.00	LB6 2.8 Liter MFI V6 (Reqs C60 Air)	145.00	C49 Defogger, Rear Window: Electric
<b>TRANSMISSION (Must Order One)</b>		20.00	K05 Heater, Engine Block
175.00	MX0 4-Speed Automatic (Reqs LB6 Eng)	<b>RADIO EQUIPMENT</b>	
N.C.	MX1 3-Speed Automatic (Reqs LR8 Eng)	V.P.S.	--- Electronically Tuned AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System (Base)
<b>EMISSION (Must Order One)</b>		V.P.S.	UM6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System (Incl w/Group AVA3)
N.C.	NA5 Standard Emissions	V.P.S.	UL5 Radio Delete (Reqs Group AVAB)
100.00	YF5 California Emissions		
<b>TIRES (May Choose One)</b>			
N.C.	--- P195/75 R14 B/W (Radial) (Base)		
90.00	QLW P195/70 R14 B/W (Radial)		
<b>WHEELS (May Choose One)</b>			
N.C.	--- Rally Wheels (Base)		
143.00	PD7 Aluminum Wheels		

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# CELEBRITY EUROSPOUR WAGON

## REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

INTERIOR TRIM					
N.C.	C**1	Cloth Bench	55.00	Z17	Molding Package, Exterior (Incl w/D84 Paint and Groups AVA1, AVA2 and AVA3)
257.00	C**2	Cloth Bucket			
133.00	C**3	Cloth 55/45	148.00	D84	Paint, Custom Two-Tone (Incls Z17 Molding Package) (w/Group AVAB)
435.00	F**3	Custom Cloth 55/45			
385.00	F**5	Custom Cloth 45/45	93.00	D84	Paint, Custom Two-Tone (Incls Z17 Molding Package) (w/o Group AVAB)
ADDITIONAL OPTIONS					
40.00	C51	Air Deflector	195.00	AU3	Power Door Lock System (Incl w/ Groups AVA2 and AVA3)
40.00	V08	Cooling, Heavy Duty (Reqs LR8 Eng) (w/C60)	240.00	AG1	Power Seat, Driver (Reqs 55/45 or 45/45 Seats)
70.00	V08	Cooling, Heavy Duty (Reqs LR8 Eng) (w/o C60)	40.00	BC5	Rear Compartment Decor, Deluxe (Incl w/Group AVA3)
17.00	B32	Floor Covering: Mats, Color-Keyed. Front Only (Incl w/Groups AVA1, AVA2 and AVA3)	90.00	A78	Seat Backs, Reclining (Reqs 55/45 or 45/45 Seats)
12.00	B33	Floor Covering: Mats, Color-Keyed. Rear Only (Incl w/Groups AVA1, AVA2 and AVA3)	44.00	AW9	Security Package, Cargo Area (Incl w/Group AVA3)
64.00	U39	Gage Package w/Trip Odometer (Incl w/Groups AVA2 and AVA3)	125.00	C25	Windshield Wiper System, Rear Window (N/A C51 Air Deflector)
N.C.	VK3	License Plate Bracket, Front			





# CELEBRITY NON-EUROSPORT WAGON

## 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		Dk Blue	Lt Brown	Gray	Maroon
MODEL	SEAT TYPE				
1AW35	* Cloth Bench .....	CDD1	CEE1	CQQ1	CFF1
	@* Cloth Bucket .....	CDD2	CEE2	CQQ2	CFF2
	* Cloth 55/45 .....	CDD3	CEE3	CQQ3	CFF3
	# Custom Cloth 55/45 (CL) .....	FDD3	FEE3	FQQ3	FFF3
	@ # Custom Cloth 45/45 (CL) .....	FDD5	FEE5	FQQ5	FFF5

\*With AQ4, Third Seat Trim is Vinyl  
 #Incls Split Individual Folding Second Seat Back  
 @Incls Console

## CUSTOM TWO-TONE PAINT

(D84 Must be Specified in "Plus" (+) Option Section of Order Worksheet)

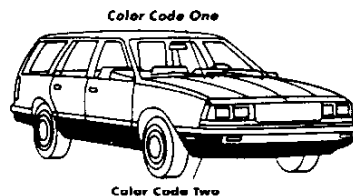
Exterior Paint Color	Color Code 1	Color Code 2	Dk Blue	Lt Brown	Gray	Maroon
Black & Silver (Met)	19	12			●	●
Blue, Dk (Met) & Silver (Met)	29	12	●		●	
Red, Dk (Met) & Silver (Met)	75	12			●	●
Silver (Met) & Med Gray (Met)	12	15	●		●	●

## SOLID PAINT APPLICATION

Exterior Paint Color	Color Code 1	Color Code 2	Dk Blue	Lt Brown	Gray	Maroon
Black	19	19			●	●
Blue, Dk (Met)	29	29	●		●	
Blue, Lt (Met)	26	26	●			
Brown, Lt (Met)	57	57		●		
Brown, Dk (Met)	59	59		●		
Gray, Med (Met)	15	15			●	●
Red, Dk (Met)	75	75			●	●
Rosewood, Med (Met)	78	78				●
Silver (Met)	12	12	●		●	●
White	11	11	●	●	●	●

## POWER TEAMS

ENGINE OPTION CONDITION	FINAL DRIVE RATIO	
	2.94	3.33
WITH NA5 STANDARD EMISSIONS		
LR8 MX1 .....	Std	—
LB6 MX0 .....	—	Std
WITH YF5 CALIFORNIA EMISSIONS		
LR8 MX1 .....	Std	—
LB6 MX0 .....	—	Std



D84 CUSTOM TWO-TONE

# CELEBRITY NON-EUROSPORT WAGON

12,375.00 **Model 1AW35/B5E 2-SEAT WAGON**  
 12,625.00 **Model 1AW35/AQ4 3-SEAT WAGON**

## PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

	AWA1	AWA2	AWA3
903.00 Preferred Equipment Group 1 (w/LR8 Eng)			
929.00 Preferred Equipment Group 1 (w/LB6 Eng)			
(-375.00) Preferred Equipment Group 1 Savings			
Air Conditioning	x	x	x
Battery, Heavy-Duty (w/LB6 Eng Only)	x	x	x
Floor Mats, Color-Keyed Front and Rear	x	x	x
Lighting, Auxiliary	x	x	x
Molding Package, Exterior	x	x	x
1,682.00 Preferred Equipment Group 2 (w/LR8 Eng)			
1,708.00 Preferred Equipment Group 2 (w/LB6 Eng)			
(-600.00) Preferred Equipment Group 2 Savings			
Carrier, Roof (Chrome)		x	x
Gage Package w/Trip Odometer		x	x
Power Door Lock System		x	x
Power Liftgate Release		x	x
Speed Control: Electronic, with Resume Speed		x	x
Steering Wheel, Comfortilt		x	x
Windshield Wiper System, Intermittent		x	x
2,203.00 Preferred Equipment Group 3 (w/LR8 Eng)			
2,229.00 Preferred Equipment Group 3 (w/LB6 Eng)			
(-800.00) Preferred Equipment Group 3 Savings			
Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System			x
Mirrors: Sport, Twin Remote			x
Power Windows			x
Rear Compartment Decor, Deluxe			x
Security Package, Cargo Area			x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code AWAB (Incls LH Remote, RH Manual Sport Mirrors, 2.5 Liter EFI L4 Eng, 3-Speed Automatic Trans, AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System and P185/75 R14 Blackwall Radial Tires).

## REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

<b>ENGINE (Must Order One)</b>		145.00 C49 Defogger, Rear Window: Electric
N.C.	LR8 2.5 Liter EFI L4	20.00 K05 Heater, Engine Block
610.00	LB6 2.8 Liter MFI V6 (Reqs C60 Air)	<b>RADIO EQUIPMENT</b>
<b>TRANSMISSION (Must Order One)</b>		V.P.S. --- Electronically Tuned AM/FM Stereo
175.00	MX0 4-Speed Automatic (Reqs LB6 Eng)	Radio w/Seek-Scan and Digital
N.C.	MX1 3-Speed Automatic (Reqs LR8 Eng)	Clock w/Extended Range Sound
<b>EMISSION (Must Order One)</b>		System (Base)
N.C.	NA5 Standard Emissions	V.P.S. UM6 Electronically Tuned AM/FM Stereo
100.00	YF5 California Emissions	Radio w/Seek-Scan, Stereo Cassette
<b>TIRES (May Choose One)</b>		Tape and Digital Clock w/Extended
N.C.	--- P185/75 R14 B/W (Radial) (Base)	Range Sound System (Incl w/
68.00	OFF P185/75 R14 W/W (Radial)	Group AWA3)
<b>WHEELS (May Choose One)</b>		V.P.S. UL5 Radio Delete (Reqs Group AWAB)
N.C.	--- Full Wheel Cover (Base)	<b>INTERIOR TRIM</b>
56.00	ZJ7 Rally Wheels	N.C. C**1 Cloth Bench
65.00	PB2 Sport Wheel Covers	257.00 C**2 Cloth Bucket
199.00	N91 Wire Wheel Covers w/Locks	133.00 C**3 Cloth 55/45
<b>CLIMATE CONTROL</b>		435.00 F**3 Custom Cloth 55/45
775.00	C60 Air Conditioning (Incl w/Groups AWA1, AWA2 and AWA3)	385.00 F**5 Custom Cloth 45/45

REVISED: 1-30-89

1989 ORDER GUIDE

CELEBRITY

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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.

# CELEBRITY NON-EUROSPORT WAGON

## REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

ADDITIONAL OPTIONS					
40.00	C51	Air Deflector	93.00	D84	Paint, Custom Two-Tone (Incls Z17 Molding Package) (w/o Group AWA3)
40.00	V08	Cooling, Heavy-Duty (Reqs LR8 Eng) (w/C60)	195.00	AU3	Power Door Lock System (Incl w/ Groups AWA2 and AWA3)
70.00	V08	Cooling, Heavy-Duty (Reqs LR8 Eng) (w/o C60)	240.00	AG1	Power Seat, Driver (Reqs 55/45 or 45/45 Seats)
17.00	B32	Floor Covering: Mats, Color-Keyed. Front Only (Incl w/Groups AWA1, AWA2 and AWA3)	40.00	BC5	Rear Compartment Decor, Deluxe (Incl w/Group AWA3)
12.00	B33	Floor Covering: Mats, Color-Keyed. Rear Only (Incl w/Groups AWA1, AWA2 and AWA3)	90.00	A78	Seat Back, Reclining (Reqs 55/45 or 45/45 Seats)
64.00	U39	Gage Package w/Trip Odometer (Incl w/Groups AWA2 and AWA3)	44.00	AW9	Security Package, Cargo Area (Incl w/Group AWA3)
N.C.	VK3	License Plate Bracket, Front	26.00	F40	Suspension: Heavy-Duty, Front and Rear
55.00	Z17	Molding Package, Exterior (Incl w/D84 Paint and Groups AWA1, AWA2 and AWA3)	64.00	G66	Suspension: Shock Absorbers, Inflatable Rear
148.00	D84	Paint, Custom Two-Tone (Incls Z17 Molding Package) (w/Group AWA3)	125.00	C25	Windshield Wiper System, Rear Window (N/A C51 Air Deflector)

# CELEBRITY OPTIONS

▲ STANDARD

☐ INCLUDED IN OPTION PACKAGE

● INDIVIDUAL OPTION AVAILABILITY

**NOTE:** NOT TO BE USED FOR ORDERING. REFER TO ORDER GUIDE FOR CURRENT USAGE AND AVAILABILITY.

**PACKAGED OPTIONS** (Not available individually unless indicated)

	CELEBRITY SEDAN			CELEBRITY EUROSPORT SEDAN			CELEBRITY WAGON			CELEBRITY EUROSPORT WAGON		
	PKG. 1	PKG. 2	PKG. 3	PKG. 1	PKG. 2	PKG. 3	PKG. 1	PKG. 2	PKG. 3	PKG. 1	PKG. 2	PKG. 3
Air Conditioning	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Auxiliary Lighting	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Floor Mats, Color-Keyed Front/Rear	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Heavy-Duty Battery (w/V6 engine only)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Exterior Molding Package	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Electronic Speed Control		☐	☐		☐	☐		☐	☐		☐	☐
Comfortilt Steering Wheel		☐	☐		☐	☐		☐	☐		☐	☐
Intermittent Wiper System		☐	☐		☐	☐		☐	☐		☐	☐
Gage Package w/Trip Odometer		☐	☐		☐	☐		☐	☐		☐	☐
Power Door Lock System	●	☐	☐	●	☐	☐	●	☐	☐	●	☐	☐
Twin Remote Sport Mirrors			☐			☐			☐			☐
Power Trunk Opener			☐			☐						
Power Windows			☐			☐			☐			☐
Lift Gate, Power Release								☐	☐		☐	☐
Roof Carrier								☐	☐		☐	☐
Deluxe Rear Compartment Decor									☐			☐
Cargo Area Security Package									☐			☐
<b>TIRES/WHEEL TRIM</b>												
P185/75R-14 Whitewall Radials	●	●	●				●	●	●			
P195/70R-14 Blackwall Radials				●	●	●				●	●	●
Rally Wheels	●	●	●	▲	▲	▲	●	●	●	▲	▲	▲
Sport Wheel Covers	●	●	●				●	●	●			
Wire Wheel Covers with Locks	●	●	●				●	●	●			
Aluminum Wheels				●	●	●				●	●	●
<b>CLIMATE CONTROL</b>												
Electric Rear Window Defogger	●	●	●	●	●	●	●	●	●	●	●	●
Engine Block Heater	●	●	●	●	●	●	●	●	●	●	●	●
<b>RADIO EQUIPMENT</b>												
AM/FM Stereo with Seek and Scan, Cassette, Digital Clock and ERS*	●	●	☐	●	●	☐	●	●	☐	●	●	☐
<b>ADDITIONAL INDIVIDUAL OPTIONS</b>												
Heavy-Duty Cooling	●	●	●	●	●	●	●	●	●	●	●	●
Front License Plate Bracket	●	●	●	●	●	●	●	●	●	●	●	●
Heavy-Duty Suspension	●	●	●				●	●	●			
Power Seat (Requires 55/45 or 45/45 Seats)	●	●	●	●	●	●	●	●	●	●	●	●
Reclining Seat-Backs	●	●	●	●	●	●	●	●	●	●	●	●
Custom Two-Tone Paint	●	●	●	●	●	●	●	●	●	●	●	●
Air Deflector							●	●	●	●	●	●
Inflatable Rear Shock Absorbers	●	●	●				●	●	●			
Rear Window Wiper							●	●	●	●	●	●

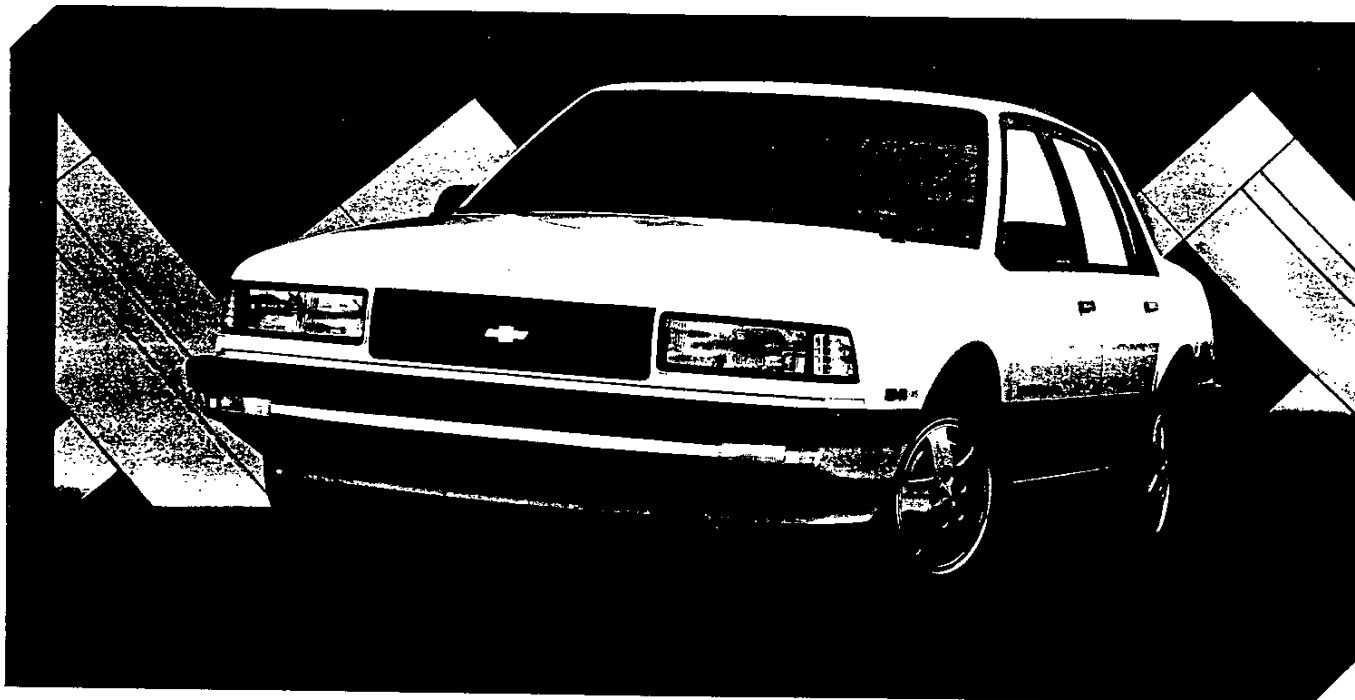
\*Extended Range Sound System

# '89 CELEBRITY

**CELEBRITY**  
4-Door Sedan  
4-Door 2-Seal Wagon  
4-Door 3-Seal Wagon

**MODEL NUMBER**  
1AW19\*  
1AW35/B5E\*  
1AW35/AQ4\*

**PASSENGER CAPACITY**  
Sedans 6+  
Wagons 6 or 8+  
\*Eurosport available (RPO ZV8).  
†One less with optional bucket seats.



Celebrity Eurosport 4-Door Sedan.

## NEW FEATURES

- Celebrity available only in Sedan and Wagon styles for '89
- 3-speed automatic transmission standard with all power teams (4-speed automatic with overdrive available with optional 2.8 Liter V6)
- 5-speed manual transmission cancelled
- 3-point outboard position rear shoulder-lap safety belts added to safety belt system
- Vinyl interior trim cancelled for '89
- Separate internal oil filter access and oil drain plug on base 2.5 Liter L4 engine oil pan
- Quick connect fuel lines
- Exhaust retuned on 2.5 Liter L4 and optional 2.8 Liter V6 (with Eurosport)
- Discontinued RPO's include Body Pin Striping, Tachometer and P195/75R-14 whitewall tires
- Radio delete (RPO UL5) available with Base model packages only

## STANDARD FEATURES

- Front-drive efficiency with transverse-mounted engine
  - 6-passenger room
  - Aero-style front end with composite halogen headlamps
  - AM/FM stereo radio with Seek and Scan and digital clock†; premium rear speakers
  - Acoustical headliner, padded one-piece cur-pile carpeting
  - 2.5 Liter L4 with Electronic Fuel Injection (EFI) and internal balance shafts
  - Rear track bar
  - Swing-out tailgate window on Wagons
- \*May be deleted for credit from Base model packages only.

## EQUIPMENT AVAILABILITY

	4-Door Sedan	4-Door Wagon
Bright grille*	S	S
Composite headlamps with bright* bezels	S	S
Chrome front and rear bumpers (with black rub strips)	S	S
Black side window frames	S	S
Bright drip moldings	S	S
Wide body side moldings	S	S
Full wheel covers	S	S
Dual sport mirrors (left-hand remote)	S	S
Front courtesy lamps (and rear dome lamps on wagons)	S	S
Tinted glass	S	S
Roll-down windows in all doors	S	S
Flow-through power ventilation with side window defoggers	S	S
Multi-function turn signal/headlamp/wiper/washer switch	S	S
Headlamps-on reminder tone	S	S
Deluxe color-keyed safety belt system including front and rear seat outboard shoulder-lap belts and center lap belts	S	S
Locking glove box with light	S	S
Carpeted underfloor storage area	NA	S
Self-adjusting hydraulic valve lifters	S	S
Power steering, rack-and-pinion	S	S
Power front disc/rear drum brake system	S	S
P185/75R-14 all-season steel-belted radial blackwall tires on 5.5" wheels†	S	S
Scissors-type jack and ratcheting wheel nut wrench	S	S

S-Standard NA-Not Available \*Black on Eurosport  
†P195/75R-14 radial blackwall tires on Rally Wheels for Eurosport

Refer to Passenger Car Order Guide for option availability and application.

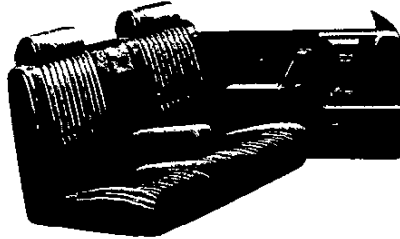
**ORDERING INFORMATION**

## SEAT TRIMS & COLORS

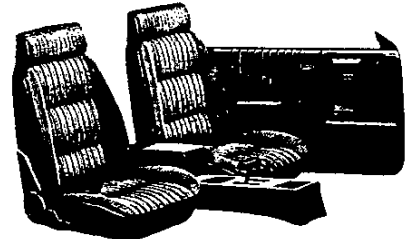
### CELEBRITY CLOTH SEATS



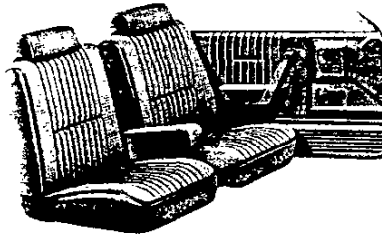
Standard cloth seat trim available in Dark Blue, Light Brown, Gray or Maroon.



Standard cloth bench seat with pull-down center armrest and adjustable head restraints.



Optional cloth bucket seats with adjustable head restraints, floor console included.

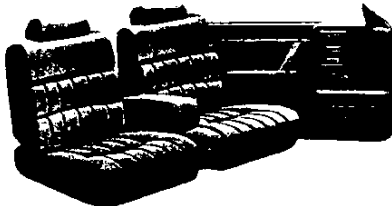


Optional cloth 55/45 seat with pull-down center armrest and adjustable head restraints.

### CELEBRITY CL CUSTOM CLOTH SEATS



Optional CL Custom Cloth seat trim available in Dark Blue, Light Brown, Gray or Maroon.



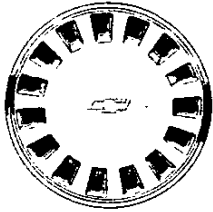
Optional CL Custom Cloth 55/45 seat with pull-down center armrest and adjustable head restraints.



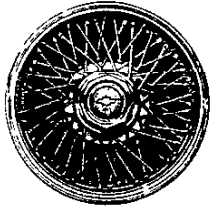
Optional CL Custom Cloth 45/45 seat with adjustable head restraints, floor console included.

*Refer to Passenger Car Order Guide for option availability and application.*

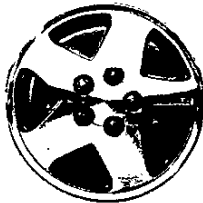
## WHEEL TRIM



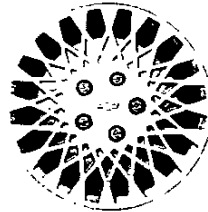
Standard Celebrity Full Wheel Covers. (Not available with Eurosport Package.)



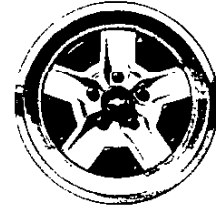
Optional Wire Wheel Covers with locks (RPO N91). (Not available with Eurosport Package.)



Aluminum Wheels (RPO PD7). (Optional with Eurosport Package only.)



Optional Sport Wheel Covers (RPO PB2). (Not available with Eurosport Package.)



Optional Rally Wheels (RPO ZJ7). Included with Eurosport Package.

## RADIOS



Standard electronically tuned AM/FM stereo radio with Seek and Scan and digital clock; dual front and premium rear speakers.

\*May be deleted for credit from Base model packages only.



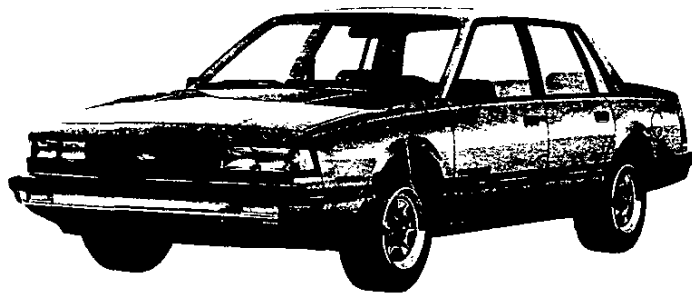
Optional electronically tuned AM/FM stereo radio with Seek and Scan, dual front and premium rear speakers, cassette and digital clock (RPO UM6).

Appearance of radios may vary by car model.

## EXTERIOR DECOR

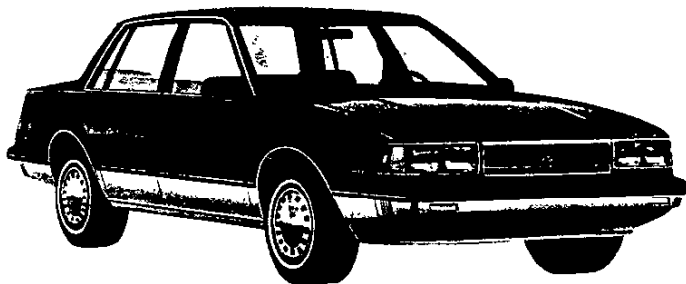
### EUROSPORT EQUIPMENT PACKAGE (RPO ZV8)

Available for Sedan and Wagon models. Includes black-finished exterior hardware, specific exterior/interior nameplates, black body side molding rub strips with red accents; sport steering wheel; sport suspension, Rally Wheels with trim rings and P195/75R-14 blackwall radial tires.



### CUSTOM TWO-TONE (RPO D84)

Two-tone exterior with accent color below body side moldings. Includes bright (black on Eurosport) wheel opening and rocker panel moldings.



All illustrations and specifications in this brochure are based on the latest product information available at the time of publication approval. The right is reserved to make changes at any time, without notice, in colors, materials, specifications and models, and also to discontinue models. Chevrolet Motor Division, General Motors Corporation, Warren, Michigan 48090



**Refer to Passenger Car Order Guide for option availability and application.**

ORIGINAL

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

# 1989

Manufacturer Chevrolet Motor Division General Motors Corporation	Vehicle Line CELEBRITY	
Mailing Address Chevrolet-Pontiac-Canada Group Engineering Center General Motors Corporation 30003 Van Dyke Warren, MI 48090-9060	Issued June, 1988	Revised September, 1988

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 Motor Vehicle Manufacturers Association of the United States, Inc.

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.



Motor Vehicle Manufacturers Association  
of the United States, Inc.

Blank Forms Provided by Technical Affairs Division



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# MVMA Specifications Form

**METRIC (U.S. Customary)**

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	4	Diesel Information	
	5	Cooling System	
	6	Fuel System	
Ø	7	Vehicle Emission Control	
	7	Exhaust System	
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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.



1

2

3

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6



# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) 9-88

**Vehicle Origin**

Design & development (company)	<u>Chevrolet-Pontiac-GM of Canada Engineering</u>
Where built (country)	<u>U.S.A.</u>
Authorized U.S. sales marketing representative	<u>Chevrolet Motor Division</u>

**Vehicle Models**

Model Description & Drive (FWD/RWD/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)
<u>CELEBRITY</u>				
4-Door Notchback Sedan		1AW19	6 (3/3)	72.5 (159.8)
4-Door Station Wagon		1AW35	6 (3/3) 8 (3/3/2) Opt.	136.2 (300)

Note: Any specifications on the following pages that are specific to California requirements are indicated accordingly.

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

# MVMA Specifications Form

Vehicle Line CELEBRITY

Model Year 1989 Issued 6-88 Revised (e) 9-88

**METRIC (U.S. Customary)**

**Power Teams** (Indicate whether standard or optional)

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg/100 kPa atmospheric pressure.

SERIES AVAILABILITY	ENGINE						E x h a u s t S/D*	TRANSMISSION/ TRANSAXLE	AXLE RATIO (std. first)
	Code	Displ. Liters (in <sup>3</sup> )	Induction (Fi, CARB/ BBL, etc.)	Compr. Ratio	SAE Net at RPM				
					Power kW (bhp)	Torque N·m (lb. ft.)			
Base - All States	LR8	L-4 2.5L (151 CID)	EFI *	8.3:1	73 (98) @ 4800	183 (135) @ 3200	S	Auto '125c' (MD9)-Base	2.84
Opt. - All States	LB6	V6 2.8L (173 CID)	MFI **	8.9:1	93 (125) @ 4500	217 (160) @ 3600	S	Auto '125c' (MD9)-Opt. %	2.84
								Auto '440-T4' (ME9)-Opt.+	3.33
* - Electronic Fuel Injection ** - Multi-Port Fuel Injection % - Not available on Eurosport wagon + - Required on wagons with LB6 engine									

\* Single / Dual

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (•) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.5 Liter L-4 (151 CID)  
 Electronic Fuel Injection RPO LR8

### ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	In line Front Transverse, front of engine faces right side of vehicle
Manufacturer	Pontiac
No. of cylinders	4
Bore	101.6 (4.0)
Stroke	76.2 (3.0)
Bore spacing (C/L to C/L)	111.8 (4.4)
Cylinder block material & mass kg (lbs.) (machined)	Cast Alloy Iron 43.9 (96.75)
Cylinder block deck height	236.1 (9.3)
Cylinder block length	494.79 (19.48)
Deck clearance (minimum) (above or below block)	.64 (.025)-Below
Cylinder head material & mass kg (lbs.)	Cast Alloy Iron 16.95 (37.37)
Cylinder head volume (cm <sup>3</sup> )	45.62 (2.78)
Cylinder liner material	Not Applicable
Head gasket thickness (compressed)	0.97 (.038)
Minimum combustion chamber total volume (cm <sup>3</sup> ) @	70.82 (4.32)
Cyl. no. system (front to rear)*	L. Bank
	R. Bank
Firing order	1-2-3-4
Intake manifold material & mass (kg (lbs.))**	1-3-4-2
Exhaust manifold material & mass (kg (lbs.))**	Aluminum Cast 3.69 (8.14)
Fuel required unleaded, diesel, etc.	Stainless Steel 1.980 (4.4)
Fuel antiknock index (R + M) + 2	Unleaded
Engine mounts	Number
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)
	Added isolation (sub-frame, crossmember, etc.)
Total dressed engine mass (wt) dry***	87
	158.21 (348.8) Auto

### Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Cast Aluminum Alloy 600 (1.3)
--	-------------------------------

### Engine - Camshaft

Location	Right side of block
Material & mass kg (weight, lbs.)	Cast Iron 3.42 (7.54)
Drive type	Chain / belt
	Width / pitch
	Gear
	--

\* 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.

@ - Piston at TDC, spark plug and valves in place, and cylinder head torqued to specifications.

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (•) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.8 Liter - V6 (173 CID)  
 Multi-Port Fuel Injection RPO LB6

### ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	60° V Transverse, front of engine faces right side of vehicle	
Manufacturer	Chevrolet	
No. of cylinders	6	
Bore	89 (3.50)	
Stroke	76 (2.99)	
Bore spacing (C/L to C/L)	111.8 (4.40)	
Cylinder block material & mass kg (lbs.) (machined)	Cast Alloy Iron 41.731 (91.9)	
Cylinder block deck height	224 (8.819)	
Cylinder block length	435.5 (17.1)	
Deck clearance (minimum) (above or below block)	0.12 (.005) Below	
Cylinder head material & mass kg (lbs.)	Cast Alloy Aluminum 5.300 (11.7)	
Cylinder head volume (cm <sup>3</sup> )	--	
Cylinder liner material	Not Applicable	
Head gasket thickness (compressed)	0.838 (0.033)	
Minimum combustion chamber total volume (cm <sup>3</sup> )	59.8481 (3.6515)@	
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 3.810 (8.4)	
Exhaust manifold material & mass (kg (lbs.))**	Cast Iron LH 2.630 (5.8), RH 3.670 (8.1)	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) + 2	87	
Engine mounts	Number	
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	
	Added isolation (sub-frame, crossmember, etc.)	
Total dressed engine mass (wt) dry***	193.8 (427.3) Manual 181.5 (400.1) Automatic	
<b>Engine - Pistons</b>		
Material & mass, g (weight, oz.) - piston only	Cast Aluminum Alloy, .474 (1.04)	
<b>Engine - Camshaft</b>		
Location	In block above crankshaft	
Material & mass kg (weight, lbs.)	Cast iron, 3.098 (6.83)	
Drive type	Chain / belt	Chain
	Width / pitch	19.4 (.764)/9.53 (3.75)

\* 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:

@ - Piston at TDC, spark plug and valves in place, and cylinder head torqued to specifications.

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) 9-88

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.5 Liter L4 (151 CID)  
 Electronic Fuel Injection RPO LR8

### Engine - Valve System

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

4/4  
 43.69 (1.72)/38.10 (1.50)

### Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]*	Cast Iron .550 (1.213)
Length (axle to axle) mm	153.67

### Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]*	Nodular cast iron/14.61 (32.21)
End thrust taken by bearing (no.)	5
Length & number of main bearings	5
Seal (material, one, two piece design, etc.)	Front
	Rear

Silicon/one  
 Silicon/one

### Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	2.59 (37.5)
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full flow
Capacity of c/case, less filter-refill-L (qt.)	2.8 (3.0)

### Engine - Diesel Information

Diesel engine manufacturer	Not
Glow plug, current drain at 0°F	Applicable
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

Turbo charger - manufacturer	Not
Super charger - manufacturer	Applicable
Intercooler	

\*Finished State



# MVMA Specifications Form

Vehicle Make CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (●) 9-88

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.8 Liter V6 (1/3 CID)  
 Multi-Port Fuel Injection RPO LB6

### Engine - Valve System

Hydraulic lifters (std., opt., NA)	Standard	
Valves	Number intake / exhaust	6/6
	Head O.D. intake / exhaust	43.64 (1.72)/36.20 (1.43)

### Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))*	Steel/.399 (0.879)
Length (axes-E to-E) mm	144.78

### Engine - Crankshaft

Material & mass (kg., (weight, lbs.))*	Nodular cast iron/17.125 (37.75)	
End thrust taken by bearing (no.)	3	
Length & number of main bearings	4	
Seal (material, one, two piece design, etc.)	Front	Viton/one
	Rear	Viton/one

### Engine - Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	345-450 (50-65) @ 1200
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 (4.0)

### Engine - Diesel Information

Diesel engine manufacturer	Not	
Glow plug, current drain at 0°F	Applicable	
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

Turbo charger - manufacturer	Not
Super charger - manufacturer	Applicable
Intercooler	

\*Finished State

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.5 Liter L4 (151 CID)  
 Electronic Fuel Injection RPO LR8

### Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Standard			
Coolant fill location (rad., bottle)	Bottle, coolant recovery			
Radiator cap relief valve pressure (kPa (psi))	103.4 (15.0)			
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at °C (°F)	91 (195°)		
Water pump	Type (centrifugal, other)	Centrifugal		
	GPM 1000 pump rpm	--		
	Number of pumps	One		
	Drive (V-belt, other)	Single Poly "V" Belt (Serpentine)		
	Bearing type	Sealed double row ball		
	Impeller material	Steel		
	Housing material	Aluminum		
By-pass recirculation (type (inter., ext.))	Internal			
Cooling system capacity	With heater-L(qt.)	9.24 (9.8) Auto, 9.34 (9.9) Man		
	With air cond.-L(qt.)	9.48 (10.0) Auto, 9.58 (10.1) Man		
	Opt. equipment (specify-L(qt.))	9.30 (9.8) Auto, 9.40 (9.9) Man		
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	Standard	A/C	H.D.
	Type (cross-flow, etc.)	Cross-flow		
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube		
	Material, mass (kg (wgt. lbs.))	Copper-brass, high efficiency radiator		
	Width	430.0	668.0	668.0
	Height	429.7	429.7	429.7
	Thickness	25.0	40.2	40.2
	Fins per inch @	3.5	3.0	3.0
Radiator end tank material	Copper			
Fan	Std., elec., opt.	Standard/Optional		
	Number of blades & type (flex, solid, material)	Standard 4-blade, A/C 7-blade, A/C & HD 5-blade (Plastic)		
	Diameter & projected width	Std. 291.0 (11.5), A/C 352.5 (13.9), A/C & HD 390.5 (15.4)		
	Ratio (fan to crankshaft rev.)	--		
	Fan cutout type	ECM Controlled		
	Drive type (direct, remote)	Electric, standard/optional (a)		
	RPM at idle (elec.)	1900 (2700 with A/C and heavy duty cooling)		
	Motor rating (wattage) (elec.)	97 (150 with A/C and heavy duty cooling)		
	Motor switch (type & location) (elec.)	Engine temperature switch, engine cylinder head		
	Switch point (temp., pressure) (elec.)	110°C		
Fan shroud (material)	None			

@ - Distance between top of fins.

(a) - With rotating reinforcement ring, shrouded.

# AVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (●) \_\_\_\_\_

**METRIC (U.S. Customary)**

Engine Description/Carb.  
 Engine Code

2.8 Liter V6 (173 CID)  
 Multi-Port Fuel Injection RPO 1B6

## Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Standard			
Coolant fill location (rad., bottle)	Bottle, coolant recovery			
Radiator cap relief valve pressure (kPa (psi))	103.4 (15.0)			
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at °C (°F)	90 (195°)		
Water pump	Type (centrifugal, other)	Centrifugal		
	GPM 1000 pump rpm	22.7 @ 3000 pump RPM		
	Number of pumps	One		
	Drive (V-belt, other)	Single Poly "V" Belt (Serpentine)		
	Bearing type	Ball-Roller		
	Impeller material	Cast Iron		
	Housing material	Aluminum		
By-pass recirculation (type (inter., ext.))	Internal			
Cooling system capacity	With heater—L(qt.)	11.82 (12.5) Auto		
	With air cond.—L(qt.)	11.96 (12.6) Auto		
	Opt. equipment (specify—L(qt.))	12.16 (12.8) Auto		
Water jackets full length of cyl. (yes, no)	Yes			
Water all around cylinder (yes, no)	Yes			
Water jackets open at head face (yes, no)	--			
Radiator core	Std., A/C, HD	Std.	A/C or V08	A/C and V08
	Type (cross-flow, etc.)	Cross flow		
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube		
	Material, mass (kg (wt., lbs.))	Copper/brass high efficiency radiator		
	Width	668.0	668.0	667.5
	Height	429.7	429.7	437.8
	Thickness	25.0	40.2	34.0
	Fins per inch #	4.0	3.0	2.5
Radiator end tank material	Copper			
Fan	Std., elec., opt.	Standard, Electric		
	Number of blades & type (flex, solid, material)	Standard 7-blades/A/C 7-blades, A/C & HD 5-blade (Plastic)		
	Diameter & projected width	Standard 352.5 (13.9)/A/C 352.5(13.9) A/C&HD 390.5 (15.4)		
	Ratio (fan to crankshaft rev.)	--		
	Fan cutout type	--*		
	Drive type (direct, remote)	Electric, standard/optional (a)		
	RPM at idle (elec.)	1800		
	Motor rating (wattage) (elec.)	150-W		
	Motor switch (type & location) (elec.)	Engine temperature switch, engine cylinder head		
	Switch point (temp., pressure) (elec.)	110°		
	Fan shroud (material)	None		

# - Distance between top of fins.

\* - Fan is in continuous operation when A/C is on.

(a) - With rotating reinforcement ring, shrouded.

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.5 Liter L4 (151 CID)  
 Electronic Fuel Injection RPO LR8

### 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		Rochester Products
<input checked="" type="checkbox"/>	Carburetor no. of barrels	Not Applicable
Idle A/F mix.		Preset - No adjustment provided
Fuel injection	Point of injection (no.)	Throttle Body
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure [kPa (psi)]	83.0 (12.0)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	
	Automatic	
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water
Air cleaner type		Replaceable paper element, single snorkel
Fuel filter (type / location)		
<input checked="" type="checkbox"/>	Fuel pump	Type (elec. or mech.) Location (eng., tank) Pressure range [kPa (psi)]
		Electric Fuel Tank 83.0 (12.0)
	<input checked="" type="checkbox"/>	Flow rate at regulated pressure (L (gal)/ hr @ kPa (psi))

### Fuel Tank

Capacity [refill L (gallons)]		59.4 (15.7) approx.
Location (describe)		Underside - rear center
Attachment		Underbody strap
Material & Mass [kg (weight lbs)]		Steel 9.487 (20.9)
Filler pipe	Location & material	Driver side rear quarter
	Connection to tank	Solder
Fuel line (material)		Steel
Fuel hose (material)		Rubber
Return line (material)		Steel
Vapor line (material)		Steel
Extended range tank	Opt. n.a.	Not Available
	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 Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (●) \_\_\_\_\_

**METRIC (U.S. Customary)**

Engine Description/Carb. 2.8 Liter - V6 (173 CID)  
 Engine Code Multi-Port Fuel Injection RPO LB6

**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	Rochester Products	
<input checked="" type="checkbox"/> Carburetor no. of barrels	Not Applicable	
Idle A/F mix.	Preset - No adjustment provided	
Fuel injection	Point of injection (no.)	Fuel injectors at inlet ports
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure (kPa (psi))	
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	
	Automatic	
Intake manifold heat control (exhaust or water thermostatic or fixed)	Water	
Air cleaner type	Replaceable paper element, single snorkel	
Fuel filter (type/location)		
<input checked="" type="checkbox"/> Fuel pump	Type (elec. or mech.)	Electrical
	Location (eng., tank)	Fuel Tank
	Pressure range (kPa (psi))	160.0-250.0 (24.0-37.0)
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	

**Fuel Tank**

Capacity (refill L (gallons))	59.4 (15.7) approx.	
Location (describe)	Underside - rear center	
Attachment	Underbody strap	
Material & Mass (kg (weight lbs))	Steel 9.487 (20.9)	
Filler pipe	Location & material	Driver side rear quarter
	Connection to tank	Solder
Fuel line (material)	Steel	
Fuel hose (material)	Rubber	
Return line (material)	Steel	
Vapor line (material)	Steel	
Extended range tank	Opt., n.a.	Not Available
	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 Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) 9-88

**METRIC (U.S. Customary)**

Engine Description/Carb.  
 Engine Code

2.5L L-4 (151 CID)  
 Electronic Fuel Injection RPO LR8

## Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		CCC control
	Air Injection	Pump or pulse	None
		Driven by	None
		Air distribution (head, manifold, etc.)	None
		Point of entry	None
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow
		Exhaust source	Manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet manifold
	Catalytic Converter	Type	Oxidizing & reducing, single bed
		Number of	One
		Location(s)	Mounted to underbody
		Volume [L (in <sup>3</sup> )]	2.6 (160)
		Substrate type	Bead
Noble metal type		Platinum/Palladium/Rhodium	
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
	Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank
		Carburetor	--
Electronic system	Vapor storage provision		Canister
	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) Material & Mass [kg (weight lbs)]		One-reverse flow
Resonator no. & type		None
Exhaust pipe	Branch o.d., wall thickness	--
	Main o.d., wall thickness	50.8 x 1.12 (2.0 x .044)
	Material & Mass [kg (weight lbs)]	Stainless steel
Inter-mediate pipe	o.d. & wall thickness	50.8 x 1.12 (2.0 x .044)
	Material & Mass [kg (weight lbs)]	Aluminum coated steel
Tail pipe	o.d. & wall thickness	50.8 x 1.4 (2.0 x .055)
	Material & Mass [kg (weight lbs)]	Aluminum coated steel

\* - Purchased as unit: 11.200 (24.7)

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (•) 9-88

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.8 Liter-V6 (173 CID)  
 Multi-Port Fuel Injection RPO LB6

### Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		CCC control
	Air Injection	Pump or pulse	None
		Driven by	None
		Air distribution (head, manifold, etc.)	None
		Point of entry	None
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Not Available
		Exhaust source	Not Available
		Point of exhaust injection (spacer, carburetor, manifold, other)	Not Available
	Catalytic Converter	Type	Single bed, oxidizing & reducing
		Number of	One
		Location(s)	Mounted to underbody
		Volume [L (in <sup>3</sup> )]	2.78 (170)
		Substrate type	Monolith
Noble metal type		Platinum/Rhodium	
Noble metal concentration (g/cm <sup>3</sup> )		0.000838	
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
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, angle with cross-over, dual, other)		Single with cross-over
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass (kg (weight lbs))		One-reverse flow
Resonator no. & type		None
Exhaust pipe	Branch o.d., wall thickness	--
	Main o.d., wall thickness	50.8 x 0.81 (2.0 x 0.03)
	Material & Mass (kg (weight lbs))	Laminated tubing-stainless steel outer, steel inner
Inter-mediate pipe	o.d. & wall thickness	57.15 x 0.81 (2.25 x 0.03)
	Material & Mass (kg (weight lbs))	Aluminum coated steel
Tail pipe	o.d. & wall thickness	57.15 x 1.10 (2.25 x 0.04)
	Material & Mass (kg (weight lbs))	Aluminum coated steel

\* - Purchased as unit: 10.319 (22.7)

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.5L L-4 (151 CID)  
 Electronic Fuel Injection RPO 1R8

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

Manual 3-speed (manufacturer/country)	Not Available
Manual 4-speed (manufacturer/country)	Not Available
Manual 5-speed (manufacturer/country)	Not Available
Automatic (manufacturer/country)	Standard
Automatic overdrive (manufacturer/country)	Not Available

### Manual Transmission/Transaxle

Number of forward speeds		
Gear ratios	1st	
	2nd	Not
	3rd	Applicable
	4th	
	5th	
	Reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Trans. case mat'l. & mass kg (lbs)*		
Lubricant	Capacity [L (pt.)]	
	Type recommended	

### Clutch (Manual Transmission)

Clutch manufacturer		
Clutch type (dry, wet; single, multiple disc)		Not
Linkage (hydraulic, cable, rod, lever, other)		Applicable
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	
	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		
Total spring load (nominal, new) N (lbs)		
Clutch facing	Facing mfr. & material coding	
	Facing material & construction	
	Rivets per facing	
	Outside x inside dia. (nominal)	
	Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )]	
	Thickness (pressure plate side/fly wheel side)	
	Rivet depth (pressure plate side/fly 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.



# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.8 Liter - V6  
 Multi-Port Fuel Injection RPO 1B6

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

Manual 3-speed (manufacturer/country)	Not Available
Manual 4-speed (manufacturer/country)	" "
Manual 5-speed (manufacturer/country)	" "
Automatic (manufacturer/country)	Standard
Automatic overdrive (manufacturer/country)	"

### Manual Transmission/Transaxle

Number of forward speeds		
Gear ratios	1st	Not Applicable
	2nd	
	3rd	
	4th	
	5th	
	Reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Trans. case mat'l. & mass kg (lbs)*		
Lubricant	Capacity [L (pt.)]	
	Type recommended	

### Clutch (Manual Transmission)

Clutch manufacturer		
Clutch type (dry, wet; single, multiple disc)		Not
Linkage (hydraulic, cable, rod, lever, other)		Applicable
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	
	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		
Total spring load (nominal, new) N (lbs)		
Clutch facing	Facing mfr. & material coding	
	Facing material & construction	
	Rivets per facing	
	Outside x inside dia. (nominal)	
	Total eff. area (cm <sup>2</sup> (in. <sup>2</sup> ))	
	Thickness (pressure plate side/ fly wheel side)	
	Rivet depth (pressure plate side/ fly 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.

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.5L L4 (151 CID)  
Electronic Fuel Injection RPO LR8

### Automatic Transmission/Transaxle

Trade name		3-speed automatic
Type and special features (describe)		Torque converter with clutch 125C
Selector	Location	Column or floor
	Ltr./No. designation	P-R-N-D-2-1
Gear ratios	1st	2.84
	2nd	1.60
	3rd	1.00*
	4th	Not available
	Reverse	2.07
Max. upshift speed - drive range (km/h (mph))		1-2=76(47), 2-3=124(77)
Max. kickdown speed - drive range (km/h (mph))		2-1=69(43), 3-2=117(73)
Min. overdrive speed (km/h (mph))		Not Available
Torque converter	Number of elements	3
	Max. ratio at stall	2.35
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 (9.65)
	Capacity factor "K" <sup>1/3</sup>	
Lubricant	Capacity (refill L (pt.))	4.6 (10.0)
	Type Recommended	Dexron II
Oil cooler (std., opt., NA, internal, external, air, liquid)		Standard, integral part of radiator
Transmission case material & mass kg (lbs)**		Aluminum

\* - Converter clutch engagement

### Axle or Front Wheel Drive Unit

Type (front, rear)		Front
Description		Front differential with helical gears and tapered roller bearings
Limited slip differential (type)		Not Available
Drive pinion offset		" "
Drive pinion (type)		" "
No. of differential pinions		2
Pinion/differential adjustment (shim, other)		None
Pinion/differential bearing adjustment (shim, other)		Shim
Driving wheel bearing (type)		Sealed ball bearings (integral part of bolt-in hub units)
Lubricant	Capacity (L (pt.))	Part of automatic trans. lub.
	Type recommended	Transmission same as auto.

### Axle or Transaxle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage.)

Axle ratio (or overall top gear ratio)		2.84
No. of teeth	Pinion or drive gear	Not Applicable
	Ring gear or gear/drive gear	" "
Ring gear o.d. or drive gear o.d.		" "
Transaxle	Transfer gear ratio	1.00
	Final drive ratio	2.84

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

\*\* Includes shift linkage, lubricant, & clutch housing, if other specify.

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.8 Liter V6 (173 CID)  
 Multi-Port Fuel Injection RPO 1B6

### Automatic Transmission/Transaxle

Trade name	3-speed automatic	4-speed automatic
Type and special features (describe)	Torque converter with clutch 125C	440-T4
Selector	Location	Column or floor
	Ltr./No. designation	P-R-N-D-2-1
Gear ratios	1st	2.84
	2nd	1.60
	3rd	1.00*
	4th	Not available
	Reverse	2.07
Max. upshift speed - drive range (km/h (mph))	1-2=76(47), 2-3=132(82)	1-2=69 (43), 2-3=124 (77)
Max. kickdown speed - drive range (km/h (mph))	3-2=125(78), 2-1=66(41)	3-2=111 (69), 2-1=58 (36)
Min. overdrive speed (km/h (mph))	Not Available	60 (37)
Torque converter	Number of elements	3
	Max. ratio at stall	2.35
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 (9.65)
Lubricant	Capacity (refill L (pt.))	4.6 (10.0)
	Type Recommended	Dextron II
Oil cooler (std., opt., NA, internal, external, air, liquid)	Standard, integral part of radiator	
Transmission case material & mass (lbs)**	Aluminum	

\* - Converter clutch engagement

### Axle or Front Wheel Drive Unit

Type (front, rear)	Front
Description	Front differential with helical gears and tapered roller bearings
Limited slip differential (type)	Not Available
Drive pinion offset	" "
Drive pinion (type)	" "
No. of differential pinions	2
Pinion/differential adjustment (shim, other)	None
Pinion/differential bearing adjustment (shim, other)	Shim
Driving wheel bearing (type)	Sealed ball bearings (integral part of bolt-in hub unit)
Lubricant	Capacity (L (pt.))
	Type recommended

### Axle or Transaxle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage.)

Axle ratio (or overall top gear ratio)	2.84	3.33
No. of teeth	Pinion (Drive Gear)	Not Applicable
	Ring gear or gear (Drive Gear)	" "
Ring gear o.d. (Pitch Dia.)*	" "	" "
Transaxle	Transfer gear ratio	1.00
	Final drive ratio	2.84

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

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

\* - Driven gear

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

**METRIC (U.S. Customary)**

Engine Description/Carb.  
 Engine Code

2.5L L4 (151 CID)  
 Electronic Fuel Injection RPO LR8

## Axle Shafts – Front Wheel Drive

Manufacturer and number used		Two	
Type (straight, solid bar, tubular, etc.)		Left	Straight solid bar
		Right	Straight solid bar
Outer diam. x length* x wall thickness	Manual transaxle	Left	Not Applicable
		Right	Not Applicable
	Automatic transaxle	Left	23.8 x 306.1 x solid @
		Right	23.8 x 421.0 x solid @
	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
		Outer	Saginaw
	Number used		Four 2 each shaft
	Type, size, plunge	Inner	Tripot (1)
		Outer	Rzeppa, fixed (1)
	Attach (u-bolt, clamp, etc.)		Splined/snap ring (inner joint) - Splined/nut (outer joint)
	Bearing	Type (plain, anti-friction)	Anti-friction
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	

## All Wheel / 4 Wheel Drive

Description and type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		Not Applicable	
Transfer case	Manufacturer		
	Type		
	Model		
Low-range gear ratio			
System disconnect (describe)			
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)		
	Torque split (% front/rear)		

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

@ - Shaft capacity = 2300 N.m.

(1) Plunge =            Left - 26.83            Right - 24.58            Size = 23

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.8 Liter - V6 (173 CID)  
 Multi-Port Fuel Injection RPO LB6

### Axle Shafts - Front Wheel Drive

Manufacturer and number used		Two		
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 3-Spd.	Left	27.05 x 300.0 x solid Heavy Duty - 27.05 x 300.0 x solid	
		Right	27.05 x 418.0 x solid " " - 27.05 x 418.0 x solid	
	Optional transaxle Auto 4-Spd.	Left	27.05 x 292.7 x solid " " - 27.05 x 300.0 x solid	
		Right	27.05 x 379.6 x solid " " - 27.05 x 382.0 x solid	
Slip yoke	Type	None		
	Number of teeth	None		
	Spline o.d.	None		
Universal joints	Make and mtg. no.	Inner	Saginaw	
		Outer	Saginaw	
	Number used	Four, two each shaft		
	Type, size, plunge	Inner	(4)	
		Outer	Rzeppa, fixed	
	Attach (u-bolt, clamp, etc.)	Splined/snap ring (inner joint)-Splined/nut (outer joint)		
Bearing	Type (plain, anti-friction)	Anti-friction		
	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		

### All Wheel/4 Wheel Drive

Description and type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer	Not
	Type	Applicable
	Model	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

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

Shaft capacity = 2700 N.m.

(4) Plunge			Type Size		
			Inner	Inner	Outer
3-Spd Auto, Left	- 26.84	Right - 24.52	TP	27	27H
Heavy 3-Spd Auto, Left	- 35.71	Right - 32.68	TP	27	27
4-Spd Auto, Left	- 29.1	Right - 25.5	TP	27	27H
Heavy 4-Spd Auto, Left	- 29.1	Right - 25.5	TP	27	27

TP = Tri-Pot

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

A11

**Suspension - General Including Electronic Controls**

Car leveling	Standard/optional/not avail.	Not Available on 1AW19, 27; Rear shocks opt. on 1AW35.		
	Manual/automatic control	Not Available		
	Type (air/hydraulic)	"	"	
	Primary/assist spring	"	"	
	Rear only/4 wheel leveling	"	"	
	Single/dual rate spring	"	"	
	Single/dual ride heights	"	"	
Provision for jacking	Body pickup at rocker panels			
Shock absorber damping controls	Standard/option/not avail.	Not Available		
	Manual/automatic control	"	"	
	Number of damping rates	"	"	
	Type of actuation (manual/electric motor/air, etc.)	"	"	
	s e n s o r s	Lateral acceleration	"	"
		Deceleration	"	"
Acceleration		"	"	
Road surface		"	"	
Shock absorber (front & rear)	Type	Front: MacPherson strut; Rear: direct, double acting		
	Make	Delco		
	Piston diameter	Front: 32 (1.26); Rear: 25 (1.00)		
	Rod diameter	Front 20.0 (.80), rear 12.5 (.50)		

**Suspension - Front**

Type and description	MacPherson strut with coil springs, stamped lower control arms and nodular iron steering knuckles	
Travel*	Full jounce	102.0 mm (4.0 in.)
	Full rebound	77.0 mm (3.0 in.)
Spring	Type (coil, leaf, other) & material	Coil, steel
	Insulators (type & material)	Upper, natural rubber
	Size (coil design height & i.d., bar length x dia.)	260 (10.3) height at checking load; 165.1 (6.5) I.D.; Bar dia. & length vary w/each spring F41-6 cyl 16.0(91.0)*
	Spring rate [N/mm (lb./in.)]	Base 4/6 cyl 14.5(83.0), F40 23.5(134.0) F41-4 cyl 14.5(83.0)
	Rate at wheel [N/mm (lb./in.)]	Base 17.6 (100.0) F40-26.08 (149.0) F41-19.0 (108.0)
Stabilizer	Type (link, linkless, frameless)	Linkless
	Material & bar diameter	Steel; Base 22mm(0.87), ZV8-27mm(1.1), wagon base 24mm (0.94)

**Suspension - Rear**

Type and description	Trailing arm with stamped control arms and open section transverse beam	
Travel*	Full jounce	138mm (5.4 in.)
	Full rebound	62mm (2.4 in.)
Spring	Type (coil, leaf, other) & material	Coil, Steel
	Size (length x width, coil design height & i.d., bar length & dia.)	254 (10) height at checking load; 108.0 (4.3) I.D.; Bar length & diameter vary with each spring
	Spring rate [N/mm (lb./in.)]	Base & F41-26.9(153.7), F40-40.5(231.0), wagon F40 48.3(276.0)
	Rate at wheel [N/mm (lb./in.)]	Base & F41-15.5 (88.7), F40-22.72 (130.0), wagon 27.1(155.0)
	Insulators (type & material)	Rubber insulator top and bottom
	If leaf	No. of leaves
Shackle (comp. or tens.)		--
Stabilizer	Type (link, linkless, frameless)	Linkless, function performed by axle beam (specific design)
	Material & bar diameter	Steel, base 20mm (.79), F41 22mm (.87) with F41
Track bar (type)	Transverse link-open section	

\* Define load condition: \* Wagon-Base 4 cyl. 16.0 (91.0) 6 cyl. 19.5 (111.4) F40 4/6 cyl. 23.5 (134.0) F41-4 cyl. 16.0 (91.0) 6 cyl. 19.5 (111.4)

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (•) \_\_\_\_\_

## METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

Sedan JAI  
 Light Duty

### Brakes - Service

Description		Single piston caliper disc front, duo servo drum rear		
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc		
	Rear (disc or drum)	Drum		
Valving type (proportion, delay, metering, other)		Proportioning		
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. <sup>3</sup> ) and source	None		
	Pump-type (elec. gear driven, belt driven)	Not Available		
Traction control	Operational speed range	"	"	
	Type engine intervention (electronic, mech.)	"	"	
Anti-lock device	Front/rear (std., opt., n.a.)	"	"	
	Manufacturer	"	"	
	Type (electronic, mech.)	"	"	
	Number sensors or circuits	"	"	
	Number anti-lock hydraulic circuits	"	"	
	Integral or add-on system	"	"	
	Yaw control (yes, no)	"	"	
Hydraulic power source (elect. vac. mtr., pwr. strg.)		"	"	
Effective area (cm <sup>2</sup> (in. <sup>2</sup> ))*		F2 14cm <sup>2</sup> (33.2 in. <sup>2</sup> )/R 325 cm <sup>2</sup> (50.4 in. <sup>2</sup> )		
Gross lining area (cm <sup>2</sup> (in. <sup>2</sup> ))**(F/R)		F 239cm <sup>2</sup> (37.0 in. <sup>2</sup> )/R 338 cm <sup>2</sup> (52.4 in. <sup>2</sup> )		
Swept area (cm <sup>2</sup> (in. <sup>2</sup> ))***(F/R)		F 1161cm <sup>2</sup> (180 in. <sup>2</sup> )/R 636 cm <sup>2</sup> (98.5 in. <sup>2</sup> )		
Rotor	Outerworking diameter	F/R	247mm (9.72 in.)	
	Inner working diameter	F/R	155mm (6.10 in.)	
	Thickness	F/R	22.2mm (.87 in.)	
	Material & type (vented/solid)	F/R	Cast Iron Vented	
Drum	Diameter & width	F/R	225mm x 45mm (8.86 in. x 1.77 in.)	
	Type and material	F/R	Composite Cast Iron	
Wheel cylinder bore		F 57mm (2.25 in.) Rear 17.5mm (.69 in.)		
Master cylinder	Bore/stroke	F/R	22.2mm (.87 in.)/35.7mm (1.41 in.)	
Pedal arc ratio		3.5:1		
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]		12366 (1793)		
Lining clearance		F/R	Self Adjusting 0/.381	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Integrally Molded
		Rivet size		5.33 x 9.63mm (0.210 x 0.379)
		Manufacturer		Delco Moraine
		Lining code*****		DM 127 EE
		Material		Semi Metallic
	Rear wheel	Bonded or riveted (rivets/seg.)		Riveted
		Manufacturer		Inland
		Lining code*****		235 FE
		Material		Organic
		Shoe thickness (no lining)		2

\*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 or formulation designation and coefficient of friction classification.

# MVMA Specifications Form

Vehicle Line CELEBRITY

METRIC (U.S. Customary)

Model Year 1989 Issued 6-88 Revised (●) 9-88

Body Type And/Or  
Engine Displacement

Sedan JA8  
Medium Duty

Brakes - Service

Description		Single piston caliper disc front, duo-servo drum rear		
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc		
	Rear (disc or drum)	Drum		
Valving type (proportion, delay, metering, other)		Proportioning		
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. <sup>3</sup> ) and source	None		
	Pump-type (elec. gear driven, belt driven)	Not Available		
Traction control	Operational speed range	"	"	
	Type engine intervention (electronic, mech.)	"	"	
Anti-lock device	Front/rear (std., opt., n.a.)	"	"	
	Manufacturer	"	"	
	Type (electronic, mech.)	"	"	
	Number sensors or circuits	"	"	
	Number anti-lock hydraulic circuits	"	"	
	Integral or add-on system	"	"	
	Yaw control (yes, no)	"	"	
Hydraulic power source (elect., vac. mtr., pwr. strg.)		"	"	
Effective area (cm <sup>2</sup> (in. <sup>2</sup> ))*		F2 215.5cm <sup>2</sup> (33.4 in. <sup>2</sup> )/R 325 cm <sup>2</sup> (50.4 in. <sup>2</sup> )		
Gross lining area (cm <sup>2</sup> (in. <sup>2</sup> ))**(F/R)		F 215.5cm <sup>2</sup> (33.4 in. <sup>2</sup> )/R 338 cm <sup>2</sup> (52.4 in. <sup>2</sup> )		
Swept area (cm <sup>2</sup> (in. <sup>2</sup> ))***(F/R)		F 1173cm <sup>2</sup> (181.8 in. <sup>2</sup> )/R 636 cm <sup>2</sup> (98.5 in. <sup>2</sup> )		
Rotor	Outerworking diameter	F/R	260.0mm (10.24 in.)	
	Inner working diameter	F/R	179.2mm (7.1 in.)	
	Thickness	F/R	26.0mm (1.02 in.)	
	Material & type (vented/solid)	F/R	Cast Iron Vented	
Drum	Diameter & width	F/R	225mm x 45mm (8.86 in. x 1.77 in.)	
	Type and material	F/R	Composite Cast Iron	
Wheel cylinder bore		F 64mm (2.52 in.)/R 17.5mm (.69 in.)		
Master cylinder	Bore/stroke	F/R	24.0mm (.94 in.)/35.7mm (1.41 in.)	
Pedal arc ratio		3.5:1		
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))		12366 (1793)		
Lining clearance		F/R	Self Adjusting 0/.381	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Integrally Molded	
		Rivet size	5.33 x 9.63mm (0.210 x 0.379)	
		Manufacturer	Delco Moraine	
		Lining code*****	DM 127 FE	
		Material	Semi-Metallic	
		**** Primary or out-board	142mm x 40mm x 8.0mm (5.59 in. x 1.57 in. x .31 in.)	
	Size Secondary or in-board	122mm x 46mm x 11.0mm (4.80 in. x 1.81 in. x .43 in.)		
	Shoe thickness (no lining)		Inboard 5	
	Rear wheel	Bonded or riveted (rivets/seg.)	Riveted	
		Manufacturer	Inland	
		Lining code*****	235 FE	
		Material	Organic	
		**** Primary or out-board	176 X 44 X 6	
Size Secondary or in-board		208 X 44 X 7.6		
Shoe thickness (no lining)		2		

\*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 or formulation designation and coefficient of friction classification.



# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (●) \_\_\_\_\_

Body Type And/Or  
 Engine Displacement

Sedan JA2  
 Heavy Duty

Brakes - Service

Description		Single piston caliper disc front, duo-servo drum rear	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc	
	Rear (disc or drum)	Drum	
Valving type (proportion, delay, metering, other)		Proportioning	
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. <sup>3</sup> ) and source	None	
	Pump-type (elec. gear driven, belt driven)	Not Available	
Traction control		Operational speed range Type engine intervention (electronic, mech.)	
Anti-lock device	Front/rear (std., opt., n.a.)		
	Manufacturer		
	Type (electronic, mech.)		
	Number sensors or circuits		
	Number anti-lock hydraulic circuits		
	Integral or add-on system		
	Yaw control (yes, no)		
Hydraulic power source (elect., vac. mtr., pwr. strg.)			
Effective area [cm <sup>2</sup> (in. <sup>2</sup> )]*		F 215.5cm <sup>2</sup> (33.4 in <sup>2</sup> )/R 325 cm <sup>2</sup> (50.4 in <sup>2</sup> )	
Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]**(F/R)		F 215.5cm <sup>2</sup> (33.4 in <sup>2</sup> )/R 338 cm <sup>2</sup> (52.4 in <sup>2</sup> )	
Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]*** (F/R)		F 1173cm <sup>2</sup> (181.8 in <sup>2</sup> )/R 636 cm <sup>2</sup> (98.5 in <sup>2</sup> )	
Rotor	Outerworking diameter	F/R 260.0mm (10.24 in.)	
	Inner working diameter	F/R 179.2mm (7.1 in.)	
	Thickness	F/R 26.0mm (1.02 in.)	
	Material & type (vented/solid)	F/R Cast Iron Vented	
Drum	Diameter & width	F/R 225mm x 45., (8.86 in. x 1.77 in.)	
	Type and material	F/R Composite Cast Iron	
Wheel cylinder bore		F 64mm (2.52 in.)/R 19.0mm (.75 in.)	
Master cylinder	Bore/stroke	F/R 24.0mm (.94 in.)/35.71mm (1.41 in.)	
Pedal arc ratio		3.5:1	
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))		12366 (1793)	
Lining clearance		Self Adjusting 0/.381	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Integrally Molded
		Rivet size	5.33 x 9.63mm (0.210 x 0.379)
		Manufacturer	Delco Moraine
		Lining code*****	DM 127 EE
		Material	Semi-Metallic
		**** Primary or out-board	142mm x 40mm x 8.0mm (5.59 in. x 1.57 in. x .31 in.)
		Size Secondary or in-board	122mm x 46mm x 11.0mm (4.80 in. x 1.81 in. x .43 in.)
	Shoe thickness (no lining)	Inboard 5	
	Rear wheel	Bonded or riveted (rivets/seg.)	Riveted
		Manufacturer	Inland
		Lining code*****	235 FE
		Material	Organic
		**** Primary or out-board	176 X 44 X 6
		Size Secondary or in-board	208 X 44 X 7.6
Shoe thickness (no lining)		2	

\*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 or formulation designation and coefficient of friction classification.

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (•) \_\_\_\_\_

METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

Wagon JAB  
 Medium Duty

Brakes - Service

Description		Single piston caliper disc front, duo-servo drum rear	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc	
	Rear (disc or drum)	Drum	
Valving type (proportion, delay, metering, other)		Proportioning	
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. <sup>3</sup> ) and source	None	
	Pump-type (elec. gear driven, belt driven)	Not Available	
Traction control	Operational speed range	" "	
	Type engine intervention (electronic, mech.)	" "	
Anti-lock device	Front/rear (std., opt., n.a.)	" "	
	Manufacturer	" "	
	Type (electronic, mech.)	" "	
	Number sensors or circuits	" "	
	Number anti-lock hydraulic circuits	" "	
	Integral or add-on system	" "	
	Yaw control (yes, no)	" "	
Hydraulic power source (elec., vac. mod., pwr. strg.)		" "	
Effective area (cm <sup>2</sup> (in. <sup>2</sup> ))*		F 215.5cm <sup>2</sup> (33.4 in. <sup>2</sup> )/R 325 cm <sup>2</sup> (50.4 in. <sup>2</sup> )	
Gross lining area (cm <sup>2</sup> (in. <sup>2</sup> ))**(F/R)		F 215.5cm <sup>2</sup> (33.4 in. <sup>2</sup> )/R 338 cm <sup>2</sup> (52.4 in. <sup>2</sup> )	
Swept area (cm <sup>2</sup> (in. <sup>2</sup> ))**(F/R)		F 1173cm <sup>2</sup> (181.8 in. <sup>2</sup> )/R 636 cm <sup>2</sup> (98.5 in. <sup>2</sup> )	
Rotor	Outerworking diameter	F/R	260.0mm (10.24 in.)
	Inner working diameter	F/R	179.2mm (7.1 in.)
	Thickness	F/R	26.0mm (1.02 in.)
	Material & type (vented/solid)	F/R	Cast Iron Vented
Drum	Diameter & width	F/R	225mm 45mm (8.86 in. x 1.77 in.)
	Type and material	F/R	Composite Cast Iron, Finned
Wheel cylinder bore		F 64mm (2.52 in.)/R 20.6mm (.81 in.)	
Master cylinder	Bore/stroke	F/R	24.0mm (.94 in.)/35.71mm (1.41 in.)
Pedal arc ratio		3.5:1	
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))		12366 (1793)	
Lining clearance		F/R	Self Adjusting 0/.381
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Integrally Molded
		Rivet size	5.33 x 9.63mm (0.210 x 0.379)
		Manufacturer	Delco Moraine
		Lining code*****	DM 127 EE
		Material	Semi-Metallic
		**** Primary or out-board	142mm x 40mm x 8.0mm (5.59 in. x 1.57 in. x .31 in.)
		Size Secondary or in-board	122mm x 46mm x 11.0mm (4.80 in. x 1.81 in. x .43 in.)
	Shoe thickness (no lining)	Inboard 5	
	Rear wheel	Bonded or riveted (rivets/seg.)	Riveted
		Manufacturer	Inland
		Lining code*****	235 FE
		Material	Organic
		**** Primary or out-board	176 X 44 X 6
		Size Secondary or in-board	208 X 44 X 7.6
Shoe thickness (no lining)		2	

\*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 or formulation designation and coefficient of friction classification.

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (#) \_\_\_\_\_

## METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

Wagon JA2  
 Heavy Duty

Brakes - Service

Description		Single piston caliper disc front, duo-servo drum rear			
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc			
	Rear (disc or drum)	Drum			
Valving type (proportion, delay, metering, other)		Proportioning			
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. <sup>3</sup> ) and source	None			
	Pump-type (elec, gear driven, belt driven)	Not Available			
Traction control	Operational speed range	" "			
	Type engine intervention (electronic, mech.)	" "			
Anti-lock device	Front/rear (std., opt., n.a.)	" "			
	Manufacturer	" "			
	Type (electronic, mech.)	" "			
	Number sensors or circuits	" "			
	Number anti-lock hydraulic circuits	" "			
	Integral or add-on system	" "			
	Yaw control (yes, no)	" "			
Hydraulic power source (elect., vac. mer., pwr. strg.)		" "			
Effective area (cm <sup>2</sup> (in. <sup>2</sup> ))*		F 215.5cm <sup>2</sup> (33.4 in <sup>2</sup> )/R 325 cm <sup>2</sup> (50.4 in <sup>2</sup> )			
Gross lining area (cm <sup>2</sup> (in. <sup>2</sup> ))**(F/R)		F 215.5cm <sup>2</sup> (33.4 in <sup>2</sup> )/R 338 cm <sup>2</sup> (52.4 in <sup>2</sup> )			
Swept area (cm <sup>2</sup> (in. <sup>2</sup> ))**(F/R)		F 1173cm <sup>2</sup> (181.8 in <sup>2</sup> )/R 636 cm <sup>2</sup> (98.5 in <sup>2</sup> )			
Rotor	Outerworking diameter	F/R	260.0mm (10.24 in.)		
	Inner working diameter	F/R	179.2mm (7.1 in.)		
	Thickness	F/R	26.0mm (1.02 in.)		
	Material & type (vented/solid)	F/R	Cast Iron Vented		
Drum	Diameter & width	F/R	225mm x 45mm (8.86 in. x 1.77 in.)		
	Type and material	F/R	Composite Cast Iron, finned		
Wheel cylinder bore		F 64mm (2.52 in.)/R 19.0mm (.75 in.)			
Master cylinder	Bore/stroke	F/R	24.0mm (.94 in.)/35.71mm (1.41 in.)		
Pedal arc ratio		3.5:1			
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))		12366 (1793)			
Lining clearance		F/R	Self Adjusting 0/.381		
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Integrally Molded	
		Rivet size		5.33 x 9.63mm (0.210 x 0.379)	
		Manufacturer		Delco Moraine	
		Lining code*****		DM 127 EE	
		Material		Semi-Metallic	
		****	Primary or out-board	142mm x 40mm x 8.0mm (5.59 in. x 1.57 in. x .31 in.)	
		Size	Secondary or in-board	122mm x 46mm x 11.0mm (4.80 in. x 1.81 in. x .43 in.)	
	Shoe thickness (no lining)		Inboard 5		
	Rear wheel	Bonded or riveted (rivets/seg.)		Riveted	
		Manufacturer		Inland	
		Lining code*****		235 FE	
		Material		Organic	
		****	Primary or out-board	176 X 44 X 6	
		Size	Secondary or in-board	208 X 44 X 7.6	
Shoe thickness (no lining)		2			

\*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 or formulation designation and coefficient of friction classification.

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (#) 9-88

## METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

Sedan & Station Wagon	Eurosport (RPO 7V8)
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### Tires And Wheels (Standard)

Tires	Size (load range, ply)		P185/75R14, BW*	P195/75R14, BW*
	Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial	Steel Belted Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	240 (35)	240 (35)
		Rear (kPa (psi))	240 (35)	240 (35)
	Rev./mile—at 70 km/h (45 mph)		519 R/Km	508
Wheels	Type & material		Stamped Steel	Stamped Steel (Styled)
	Rim (size & flange type)		14 x 5.5	14 x 5.5
	Wheel offset		42.0 (1.65)	42.0 (1.65)
	Attachment	Type (bolt or stud)	Stud	Stud
		Circle diameter	100.0/115.0*	100.0/115.0*
Number & size		5, M12 x 1.5	5, M12 x 1.5	
Spare	Tire and wheel		T125/70D15 B.W. compact spare, 15 x 4T wheel	
	Storage position & location (describe)		Horizontal, under load floor, except wagon which is stowed vertically in R.H. quarter area, behind wheelhouse. *Used with JA2/JA8 brakes	

### Tires And Wheels (Optional)

Tire size (load range, ply)		P195/70R14, BW*
Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial
Wheel (type & material)	Steel (Styled)	Cast Aluminum
Rim (size, flange type and offset)	14 x 5.5, 42.0	14 x 5.5, 34.0
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (load range, ply)	P195/75R14	
Type (bias, radial, steel, nylon, etc.)	Steel Belted Radial	
Wheel (type & material)	Cast Aluminum	
Rim (size, flange type and offset)	14 X 6.5, 34	
Tire size (load range, ply)		
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	Foot pedal-application; "T" handle - release	
Location of control	Under instrument panel, left of steering column	
Operates on	Rear service brakes	
If separate from service brakes	Type (internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

All

### Steering

Manual (std., opt., n.a.)		Not Available		
Power (std., opt., n.a.)		Standard		
Adjustable steering wheel/column (tilt, telescope, other)	Type	Tilt		
	Manufacturer	Saginaw Steering Gear		
	(Std., opt., n.a.)	Optional		
Wheel diameter** (W9) SAE J1100	Manual	--		
	Power	375.0 (14.76)		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	12.190 (39.99)	
		Curb to curb (l. & r.)	11.268 (36.96)	
	Inside rear	Wall to wall (l. & r.)	Not Available	
		Curb to curb (l. & r.)	Not Available	
Scrub Radius*		Not Available		
Manual	Gear	Type	Not Available	
		Manufacturer	Not Available	
	Ratios	Gear	Not Available	
		Overall	Not Available	
	No. wheel turns (stop to stop)		Not Available	
Power	Type (coaxial, elec., hyd., etc.)		Rack and pinion, integral pump	
	Manufacturer		Saginaw Steering Gear	
	Gear	Type	Rack and pinion with Integral Power Unit	
		Ratios	Gear	*c* Factor=45.13mm per degree of revolution (17.56:1 ratio)
			Overall	15.7:1 c = 50 for Eurosport
	Pump (drive)		Belt off crankshaft pulley	
No. wheel turns (stop to stop)		3.05		
Linkage	Type		End take-off tie rods	
	Location (front or rear of wheels, other)		Rear of front wheel centerline	
	Tie rods (one or two)		Two	
Steering axis	Inclination at camber (deg.)		14.6°	
	Bearings (type)	Upper	Ball bearing	
		Lower	Ball joint	
		Thrust	Ball bearing	
Steering spindle & joint type		MacPherson strut with lower ball joint		
Wheel spindle/hub	Diameter	Inner bearing	Not applicable to integral bearings. Service only.	
		Outer bearing	Assembly	
	Thread (size)		Not applicable	
	Bearing (type)		Integral double row ball, permanently lubricated	

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

\*\*See Page 22

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

All

## Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	1.9 (+/-) 0.7	Cross Car = 0 (+/-) .7 l-R
		Camber (deg.)	0 (+/-) 0.5	Cross Car = 0 (+/-) .7 l-R
		Toe-in (outside track-mm (in.))	0 (+/-) 0.20	Cross Car Total l & R
	Service reset*	Caster	1.9 (+/-) 0.7	Cross Car = 0 (+/-) .7 l-R
		Camber	0 (+/-) 0.5	Cross Car = 0 (+/-) .7 l-R
		Toe-in	0 (+/-) 0.20	Cross Car Total l & R
	Periodic M.V. inspection	Caster	1.9 (+/-) 0.7	Cross Car = 0 (+/-) .7 l-R
		Camber	0 (+/-) 0.5	Cross Car = 0 (+/-) .7 l-R
		Toe-in	0 (+/-) 0.20	Cross Car Total l & R
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	Not Available	
		Toe-in (outside track-mm (in.))	" "	" "
	Service reset*	Camber	" "	" "
		Toe-in	" "	" "
	Periodic M.V. inspection	Camber	" "	" "
		Toe-in	" "	" "

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

## Electrical - Instruments and Equipment

Speed-ometer	Type (analog, digital, std., opt.)	In-line with pointer, 6 wheel odometer
	Trip odometer (std., opt., n.a.)	Optional
EGR maintenance indicator		Not Available
Charge indicator	Type	Tell-tale warning light
	Warning device (light, audible)	Not Available
Temperature indicator	Type	Tell-tale warning light
	Warning device (light, audible)	Not Available
Oil pressure indicator	Type	Tell-tale warning light
	Warning device (light, audible)	Not Available
Fuel indicator	Type	Electric gauge with pointer
	Warning device (light, audible)	Not Available
Windshield wiper	Type (standard)	Electric two-speed, non-articulated
	Type (optional)	Intermittent
	Blade length	457.2 (18.0)
	Swept area (cm <sup>2</sup> (in. <sup>2</sup> ))	5751 (891.6)
Windshield washer	Type (standard)	Electric, integral pump/motor, dual nozzle fan spray
	Type (optional)	Not Available
	Fluid level indicator (light, audible)	Not Available
Rear window wiper, wiper/washer (std., opt., n.a.)		Optional wagon
Horn	Type	Electric vibrator
	Number used	Two, A & F notes standard
Other		Standard: restraint system warning light and buzzer, parking brake and brake failure warning light Optional: voltmeter, oil pressure, coolant temperature gages, clock (with radio), tachometer, rear window defogger indicator light, tailgate window wiper/washer.

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) 9-88

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.5L L4 (151 CID)  
 Electronic Fuel Injection RPO LR8

### Electrical - Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	75-630
	Voltage	12 Volt
	Amps at 0°F cold crank	630
	Minutes-reserve capacity	90
	Amp/hrs. - 20 hr. rate	--
	Location	Engine compartment
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	85 amp (30 amp @ idle)
	Ratio (alt. crank/rev.)	Not Available
	Output at idle (rpm, park)	
Regulator	Optional (type & rating)	None
	Type	Integral with Alternator

### Electrical - Starting System

Start. motor	Manufacturer	Delco Remy
	Current drain at 0°F	270 @ -20°F
	Power rating [kw (hp)]	1.4 (1.9)
Motor drive	Engagement type	Overrunning clutch
	Pinion engages from (front, rear)	Front

### Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Not Available	
	Other (specify)	Computer controlled coil ignition (C <sup>3</sup> I)	
Coil	Manufacturer	Delco Remy	
	Model	Not Available	
	Current	Engine stopped - A	Not Available
		Engine idling - A	Not Available
Spark plug	Manufacturer	AC	
	Model	R44TSX	
	Thread (mm)	14	
	Tightening torque (N·m (lb. ft))	20 (15)	
	Gap	1.52 (.060)	
	Number per cylinder	One	
Distributor	Manufacturer	Not Applicable	
	Model	Not Applicable	

### Electrical - Suppression

Locations & type	Internal alternator capacitor, non-metallic high-tension ignition cables, resistor spark plugs, ignition coil by-pass capacitor, internal AC blower motor by-pass capacitor & A/C compression diode, with radio provisions; hood grounding clip, engine to dash panel ground strap, fuse block capacitor and on "heater only" blower motors and coax capacitor.
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# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) 9-88

## METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.8 Liter - V6  
 Multi-Port Fuel Injection RPO LB6

### Electrical - Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	70-525 (Std.), 75-570 (Opt.)
	Voltage	12 Volts
	Amps at 0°F cold crank	525 (Std.), 570 (Opt.)
	Minutes-reserve capacity	75 (Std.), 90 (Opt.)
	Amp/hrs. - 20 hr. rate	--
	Location	Engine compartment
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	(a,b,c)
	Ratio (alt. crank/rev.)	Not Available
	Output at idle (rpm, park)	
Regulator	Optional (type & rating)	None
	Type	Integral with Alternator

### Electrical - Starting System

Start, motor	Manufacturer	Delco Remy
	Current drain at 0°F	250 @ -20°F
	Power rating [kw (hp)]	1.4 (1.9)
Motor drive	Engagement type	Positive shift solenoid
	Pinion engages from (front, rear)	Rear

### Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Not Applicable	
	Other (specify)	Computer controlled coil ignition (C <sup>3</sup> I)	
Coil	Manufacturer	Delco Remy	
	Model		
	Current	Engine stopped - A	Not Available
		Engine idling - A	Not Available
Spark plug	Manufacturer	AC	
	Model	R43LTSE	
	Thread (mm)	M14 x 1.25	
	Tightening torque (N·m (lb. ft))	9-20 (7-15)	
	Gap	1.143 (.045)	
Distributor	Number per cylinder	One	
	Manufacturer	Not Applicable	
	Model	Not Applicable	

### Electrical - Suppression

Locations & type	Internal alternator capacitor, non-metallic high-tension ignition cables, resistor spark plugs, ignition coil by-pass capacitor, internal AC blower motor by-pass capacitor & A/C compression diode, with radio provisions; hood grounding clip, engine to dash panel ground strap, fuse block capacitor and on "heater only" blower motors and coax capacitor.
	(a) - 85 amp with heater, (30 amp @ idle)
	(b) - 85 amp with heater and heated backlite, (30 amp @ idle)
	(c) - 100 amp with A/C, (36 amp @ idle)



# MVMA Specifications Form

Vehicle Models CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

## METRIC (U.S. Customary)

Body Type	4-Door 1AW19 Notchback Sedan	4-Door 1AW35 Station Wagon
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### Body

Structure	Integral steel body/frame construction incorporating welded front end structural framing for mounting front sheet metal, Halo roof design, double panel deck lid (sedan, coupe). Slim profile door construction with rolled-section upper frame; bolted-on hinges.
<input checked="" type="checkbox"/> Bumper system front - rear	Steel facebar/impact bar design supported by energy absorbing cylinders for impact management.
Anti-corrosion treatment	High level of corrosion protection through extensive use of zinc-rich precoated metal and underbody primer, augmented by wax-base spray on doors, deck lid lower surfaces and hinge pillars. Plastisol applied to selected lower body areas.

### Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Acrylic, 13% solution lacquer or high solids base coat/clear coat	
Hood	Material & mass	Steel 17.781 (39.2 lbs.)
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop rod type
	Release control (internal, external)	Internal
Trunk lid	Material & mass	Steel 15.755 (34.7 lbs.)
	Type (counterbalance, other)	Torsion bar counterbalance (Sedans)
	Internal release control (elec., mech., n.a.)	External mechanical std; internal elect. opt.
Hatch-back lid	Material & mass	Not Applicable
	Type (counterbalance, other)	" "
	Internal release control (elec., mech., n.a.)	" "
Tailgate	Material & mass	Steel 13.950 (30.7 lbs.)
	Type (drop, lift, door)	Lift window, drop door
	Internal release control (elec., mech., n.a.)	Internal release, electric (optional)
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	" Rear quarter, pivot
Window regulator type (cable, tape, flex, drive, etc.)	Front	Tape
	Rear	Tape
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Full foam, SDN, WGN: AM6 45/55, AR9 bucket, A52 bench
	Rear	Full foam; CPE, SDN, WGN: non-flgd 3 pass
	3rd seat	Full foam; Wagon optional
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Full foam; SDN, WGN: AM6 45/55, AR9 bucket, A52 bench
	Rear	Full foam; CPE, SDN - non-flgd; WGN: flgd * non-flgd
	3rd seat	Full foam; optional, Wagon
Seat Cushion	Front	Full foam; CPE: AM6 45/55, AR9 bucket, A65 N/B
Seat Back	Front	Full foam; CPE: AM6 45/55, AR9 bucket, A65 N/B

**MVMA Specifications Form**  
**METRIC (U.S. Customary)**

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (●) \_\_\_\_\_

Body Type

SEDAN

**Restraint System**

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Lap & shldr belt single retr with comfort mechanism.	Lap belt only with adjust latch.	Same as left front.
	Standard / optional	Second seat	Lap & shldr belt single retr no comfort mechanism.	"	Same as left second seat.
		Third seat			
Passive	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual - lap belt)	First seat			
	Standard / optional	Second seat			
		Third seat			

Glass	SAE Ref. No.	
Windshield glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> ))	S1	8525 (1321.4)
Side glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> )) - total 2-sides	S2	11254 (1744.4)
Backlight glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> ))	S3	3550 (550.2)
Total glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> ))	S4	23329 (3616.0)
Windshield glass (type)		Curved - Tempered and Laminated Plate
Side glass (type)		Curved - Tempered Plate
Backlight glass (type)		Curved - Tempered Plate

**Lamps and Headlamp Locations**

Headlamps	Description - sealed beam, halogen, replaceable bulb, etc.	Halogen, Replaceable Bulb
	Shape	Rectangular
	Lo-beam type (2A1, 2B1, 2C1, etc.)	HB3
	Quantity	2
	Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB4
	Quantity	2

**Frame**

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized frame. Bolt-on power train cradle (2-piece design) with mounting provisions for suspension lower control arms and engine mounts.
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**MVMA Specifications Form**  
**METRIC (U.S. Customary)**

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

Body Type

STATION WAGON

**Restraint System**

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Lap & shldr belt single retr with comfort mechanism.	Lap belt only with adjust latch.	Same as left
	Standard / optional	Second seat	Lap & shldr belt single retr no comfort mechanism.	"	Same as left second seat.
		Third seat	Lap belt only w/adjustable latch		Same as left 3rd seat
Passive	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual - lap belt)	First seat			
	Standard / optional	Second seat			
		Third seat			

Glass	SAE Ref. No.	
Windshield glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> ))	S1	8525 (1321.4)
Side glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> )) - total 2-sides	S2	17738 (2749.4)
Backlight glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> ))	S3	5837 (904.7)
Total glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> ))	S4	32100 (4975.5)
Windshield glass (type)		Curved - Tempered and Laminated Plate
Side glass (type)		Curved - Tempered Plate
Backlight glass (type)		Curved - Tempered Plate

**Lamps and Headlamp Locations**

Headlamps	Description - sealed beam, halogen, replaceable bulb, etc.	Halogen, Replaceable Bulb
	Shape	Rectangular
	Lo-beam type (2A1, 2B1, 2C1, etc.)	HB3
	Quantity	2
	Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB4
	Quantity	2

**Frame**

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized frame. Bolt-on power train cradle (2-piece design) with mounting provisions for suspension lower control arms and engine mounts.
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# MVMA Specifications Form

## METRIC (U.S. Customary)

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

Body Type

Sedan	Station Wagon
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### Convenience Equipment (standard, optional, n.a.)

<input checked="" type="checkbox"/> Air conditioning (manual, auto. temp control)	Optional (manual control)	
Clock (digital, analog)	Digital included with standard radios & optional stereo	
Compass / thermometer	Not Available	
Console (floor, overhead)	Optional (floor) included w/optional bucket & 45/45 seats	
Defroster, elec. backlight	Optional	
Electronic	Diagnostic monitor (integrated, individual)	Not Available
	Instrument cluster (list instruments)	Inst, oil, cool temp, volts, trip odom
	Keyless entry	Not Available
	Trpminder (avg. spd., fuel)	" "
	Voice alert (list items)	" "
	Other	" "
		" "
Fuel door lock (remote, key, electric)	Not Available	
Lamps	Auto head on / off delay, dimming	" "
	Cornering	" "
	Courtesy (map, reading)	Optional (included with auxiliary lighting package)
	Door lock, ignition	"
	Engine compartment	"
	Fog	Not Available
	Glove compartment	Standard
	Trunk	Optional
	Illuminated entry system (list lamps, activation)	
	Other	Ash tray lamp - standard
Mirrors	Day / night (auto, man.)	Standard - manual
	L.H. (remote, power, heated)	Standard - remote
	R. H. (convex, remote, power, heated)	Standard - remote convex
	Visor vanity (RH / LH, illuminated)	Optional - RH non-illuminated
<input checked="" type="checkbox"/> Navigation system (describe)	Not Available	
Parking brake-auto release (warning light)	" " (Tell-Tale Standard)	

**MVMA Specifications Form**  
**AETRIC (U.S. Customary)**

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

Body Type

Sedan	Station Wagon
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**Convenience Equipment (standard, optional, n.a.)**

Power equipment	Deck lid (release, pull down)		Available	Available (wagons)
	Door locks (manual, automatic, describe system)		Available	
	Seats	2 - 4 - 6 way, etc.	Available w/	
		Reclining (R.H., L.H.)	Not Available	
		Memory (R.H., L.H., preset, recline)	" "	
		Lumbar, hip, thigh, support	Not Available	
		Heated (R.H., L.H., other)	" "	
	Side windows		Optional	
	Vent windows		Not Available	
	Rear windows		Optional	Rear quarter, manual
Antenna (location, whip, w/shield, power)		Mast, Fender Standard PWR not available		
Radio systems	Standard	AM/FM Stereo Standard		
	Optional	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo W/Cassette Available	
Speaker (number, location)		(4) - Dual Frt & RR		
Roof open air fixed (flip-up, sliding, "T")		Not available		
Speed control device		Available		
Speed warning device (light, buzzer, etc.)		Available w/exp		
Tachometer (rpm)		Not Available		
Telephone system (describe)		" "		
Theft deterrent system		Lock mounted on steering column; locks steering wheel, transmission shift lever and ignition		

# MVMA Specifications Form

Vehicle Models CELEBRITY

Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

## 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.

Body Type	SAE Ref. No.	4-Door 1AW19 Notchback Sedan	4-Door 1AW35 Station Wagon
Width			
Tread (front)	W101	1492 ( 58.7)	
Tread (rear)	W102	1447 ( 57.0)	
Vehicle width	W103	1760 ( 69.3)	
Body width at Sg RP (front)	W117	1722 ( 67.8)	
Vehicle width (front doors open)	W120	3310 (130.3)	
Vehicle width (rear doors open)	W121	3174 (125.0)	
Front fender overall width	W106	1760 ( 69.3)	
Rear fender overall width	W107	1757 ( 69.2)	
Tumble-home (deg.)	W122	21.5	1744 ( 68.7)
Vehicle width including mirrors			

### Length

Wheelbase	L101	2664 (104.9)	
Vehicle length	L103	4783 (188.3)	4847 (190.8)
Overhang (front)	L104	1034 ( 40.7)	
Overhang (rear)	L105	1085 ( 42.7)	1149 ( 45.2)
Upper structure length	L123	2400 ( 94.5)	3267 (128.6)
Rear wheel C/L "X" coordinate	L127	2459 ( 96.8)	
Cowl point "X" coordinate	L125	207 ( 8.2)	
Front end length at centerline	L126		
Rear end length at centerline	L129	802 ( 31.6)	13 ( 0.5)

### Height \*\*

Passenger distribution (front/rear)	PD1.2.3		**
Trunk/cargo load			**
Vehicle height	H101	1375 ( 54.1)	1378 ( 54.3)
Cowl point to ground	H114	936 ( 36.8)	934 ( 36.8)
Deck point to ground	H138		
Rocker panel-front to ground	H112	219 ( 8.6)	218 ( 8.6)
Bottom of door closed-front to ground	H133	290 ( 11.4)	294 ( 11.6)
Rocker panel-rear to ground	H111	219 ( 8.6)	226 ( 8.9)
Bottom of door closed-rear to ground	H135	291 ( 11.5)	293 ( 11.6)
Windshield slope angle	H122	57.0	
Backlight slope angle	H121	34.5	47.0

### Ground Clearance \*\*

Front bumper to ground	H102	362 ( 14.2)	356 ( 14.0)
Rear bumper to ground	H104	354 ( 13.9)	
Bumper to ground (front at curb mass (wt.))	H103	381 ( 15.0)	371 ( 14.6)
Bumper to ground (rear at curb mass (wt.))	H105	379 ( 14.9)	368 ( 14.5)
Angle of approach (degrees)	H106	14.4°	14.0°
Angle of departure (degrees)	H107	17.8°	18.8°
Ramp breakover angle (degrees)	H147	15.1°	15.3°
Axle differential to ground (front / rear)	H153	158 ( 6.2)	
Min. running ground clearance	H156	144 ( 5.7)	141 ( 5.6)
Location of min. run. grd. clear.		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 Accesories Whic Weigh Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

# MVMA Specifications Form

Vehicle Models CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

## METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Body Type	4-Door 1AW19 Notchback Sedan	4-Door 1AW35 Station Wagon
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### Front Compartment

	SAE Ref. No.		
Sg RP front, "X" coordinate	L31	1138 (44.8)	
Effective head room	H61	980 (38.6)	
Max. eff. leg room (accelerator)	L34	1070 (42.1)	
SgRP to heel point	H30	258 (10.2)	
SgRP to heel point	L53	862 (33.9)	
Back angle	L40	26.0	
Hip angle	L42	99.0	
Knee angle	L44	127.0	
Foot angle	L46	87.0	
Design H-point front travel	L17	192 (7.6)	
Normal driving & riding seat track trvl.	L23	172 (6.8)	
Shoulder room	W3	1427 (56.2)	
Hip room	W5	1330 (52.4)	
** Upper body opening to ground	H50		
Steering wheel maximum diameter*	W9	375 (14.8)	
Steering wheel angle	H18	22.0	
Accel. heel pt. to steer. whl. cntr	L11		
Accel. heel pt. to steer. whl. cntr	H17		
Steering wheel to C/L of thigh	H13	95 (3.7)	
Steering wheel torso clearance	L7	365 (14.4)	
Headlining to roof panel (front)	H37	12 (0.5)	
Undepressed floor covering thickness	H67	15 (0.6)	

Front Compartment Interior Dimensions Are Measured With The Seating Reference Point (SgRP) \_\_\_\_\_ mm Forward And \_\_\_\_\_ mm Upward of Rearmost Position.

### Rear Compartment

Sg RP Point couple distance	L50	809 (31.9)	786 (30.9)
Effective head room	H63	965 (38.0)	987 (38.9)
Min. effective leg room	L51	925 (36.4)	903 (35.6)
Sg RP (second to heel)	H31	261 (10.3)	
Knee clearance	L48	44 (1.7)	25 (1.0)
Compartment room	L3	709 (27.9)	710 (28.0)
Shoulder room	W4	1427 (56.2)	
Hip room	W6	1338 (52.7)	
** Upper body opening to ground	H51		
Back angle	L41	24.5	
Hip angle	L43	84.5	83.0
Knee angle	L45	94.5	90.6
Foot angle	L47	130.0	127.0
Headlining to roof panel (second)	H38	13 (0.5)	14 (0.6)
Depressed floor covering thickness	H73	19 (0.7)	18 (0.7)

### Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	460 (16.2)	
** Lifter height	H195	810 (31.9)	821 (32.3)

### Interior Volumes (EPA Classification)

Vehicle class		Mid-size	
Interior volume index (cu. ft.)		97.9	
Trunk/cargo index (cu. ft.)		16.2	41.6

All linear dimensions are in millimeters (inches).  
 \*\* EPA Loaded Vehicle Weight, Loading Conditions

# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) \_\_\_\_\_

**METRIC (U.S. Customary)**

**Vehicle Dimensions** See Key Sheets for definitions

Body Type

4-Door 1AW35  
 Station Wagon

Station Wagon - Third Seat

SAE  
 Ref.  
 No.

Optional-RPO AQ4

Seat facing direction	SD1	Rearward
Sg RP couple distance	L85	791 (31.1)
Shoulder room	W85	1125 (44.3)
Hip room	W86	1100 (43.3)
Effective leg room	L86	737 (29.0)
Effective head room	H86	920 (36.2)
Sg RP to heel point	H87	282 (11.1)
Knee clearance	L87	310 (12.2)
Back angle	L88	25.0
Hip angle	L89	76.5
Knee angle	L90	64.0
Foot angle	L91	99.0

## Station Wagon - Cargo Space

Cargo length (open front)	L200	Not Applicable
Cargo length (open second)	L201	Not Applicable
Cargo length (closed front)	L202	1926 (75.8)
Cargo length (closed second)	L203	1152 (45.4)
Cargo length at belt (front)	L204	1856 (73.1)
Cargo length at belt (second)	L205	1029 (40.5)
Cargo width (wheelhouse)	W201	930 (36.6)
Rear opening width at floor	W203	1082 (42.6)
Opening width at belt	W204	1254 (49.4)
Min. rear opening width above belt	W205	996 (39.2)
Cargo height	H201	803 (31.6)
Rear opening height	H202	729 (28.7)
Tailgate to ground height	H250	821 (32.3)
Front seat back to load floor height	H197	404 (15.9)
Cargo volume index (m <sup>3</sup> (ft. <sup>3</sup> ))	V2	2127 (75.1)
Hidden cargo volume index (m <sup>3</sup> (ft. <sup>3</sup> ))	V4	
Cargo volume index-rear of 2-seat	V10	1179 (41.6)

## Hatchback - Cargo Space

Cargo length at front seatback height	L208	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	L210	Not Applicable
Cargo length at floor (second)	L211	--
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index (m <sup>3</sup> (ft. <sup>3</sup> ))	V3	--
Hidden cargo volume index (m <sup>3</sup> (ft. <sup>3</sup> ))	V4	
Cargo volume index-rear of 2-seat	V11	--

## Aerodynamics\*

Sedan

Station Wagon

Wheel lip to ground, front	H172	653 (25.7)	657 (25.9)
Wheel lip to ground, rear	H173	652 (25.7)	657 (25.9)
Frontal area (m <sup>2</sup> (ft. <sup>2</sup> ))	FA	2.04 (21.8)	2.02 (21.6)
Drag coefficient (Cd)			

\* EPA Loaded Vehicle Weight, Loading Conditions



**MVMA Specifications Form**  
**METRIC (U.S. Customary)**

Vehicle Line CFLERRITY  
 Model Year 1989 Issued 6-88 Revised (•) \_\_\_\_\_

Body Type 4-Door 1AW19 4-Door 1AW37  
Notchback Sedan Station Wagon

**Vehicle Fiducial Marks**

Fiducial Mark Number*	Define Coordinate Location		
Front	X	Fiducial mark to vertical base grid line - front measured horizontally, from the base 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 base grid line - front, measured vertically from base grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.	
Rear	X	Fiducial mark to vertical base grid line - rear, measured horizontally from the base 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 base grid line - rear, measured vertically from the base grid line to rear fiducial mark located on the rail (compartment pan - longitudinal).	
Front	W21°	564 ( 22.2)	
	L54°	771 ( 30.4) *	
	H81°	58 ( 2.3) #	
	H161°	308 ( 12.1)	302 (11.9)
	** H163°	286 ( 11.3)	287 (11.3)
Rear	W22°	489 ( 19.3)	510 (20.1)
	L55°	2980 (117.3) *	2215 (87.2) *
	H82°	187 ( 7.4) #	- 14 (-0.6) #
	H162°	441 ( 17.4)	440 (17.3)
	** H164°	416 ( 16.4)	425 (16.7)
* Vertical Base Grid 2000 mm line. # Horizontal Base Grid 200 mm line.			

\* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

All linear dimensions are in millimeters (inches).

\*\* EPA Loaded Vehicle Weight, Loading Conditions





# MVMA Specifications Form

Vehicle Line CELEBRITY  
 Model Year 1989 Issued 6-88 Revised (e) 9-88

METRIC (U.S. Customary)

Code	Equipment	Optional Equipment Differential Mass (weight)*			Remarks Restrictions, Requirements
		MASS, kg. (lb.)			
		Front	Rear	Total	
B32	Color-Keyed Floor Mats Front	1.4 (3.1)	1.0 (2.2)	2.4 (5.3)	All models
B33	Color-Keyed Floor Mats Rear	0.4 (0.9)	0.6 (1.3)	1.0 (2.2)	All models
CD4	Intermittent Windshield Wiper System	0.2 (0.4)	0 (0)	0.2 (0.4)	All models
C25	Tailgate Window Wiper/Washer	1.4 (3.1)	1.8 (4.0)	3.2 (7.1)	1AW35
C49	Electric Rear Window Defogger	0 (0)	0.6 (1.3)	0.6 (1.3)	1AW19
		0 (0)	0.4 (0.9)	0.4 (0.9)	1AW35
C51	Rear Window Air Deflector	-0.8 (-1.8)	3.0 (6.6)	2.2 (4.8)	1AW35 only
C60	Air Conditioning	22.4 (49.4)	-0.6 (-1.3)	21.8 (48.1)	1AW19 W/LB6 & MD9
		22.0 (48.5)	-0.6 (-1.3)	21.4 (47.2)	1AW19 W/LB6 & ME9
		24.2 (53.3)	-0.6 (-1.3)	23.6 (52.0)	1AW35 W/LB6 & MD9 & ME9
		21.8 (48.1)	-0.6 (-1.3)	21.2 (46.7)	1AW19 W/LR8
		20.8 (45.8)	-0.6 (-1.3)	20.2 (44.5)	1AW35 W/LR8
D68	Twin Remote Control Sport Mirrors	0.8 (1.8)	0.6 (1.3)	1.4 (3.1)	All models
D84	Custom Two-Tone Paint (Includes wheel opening and rocker panel moldings)	0.2 (0.4)	0.2 (0.4)	0.4 (0.8)	

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

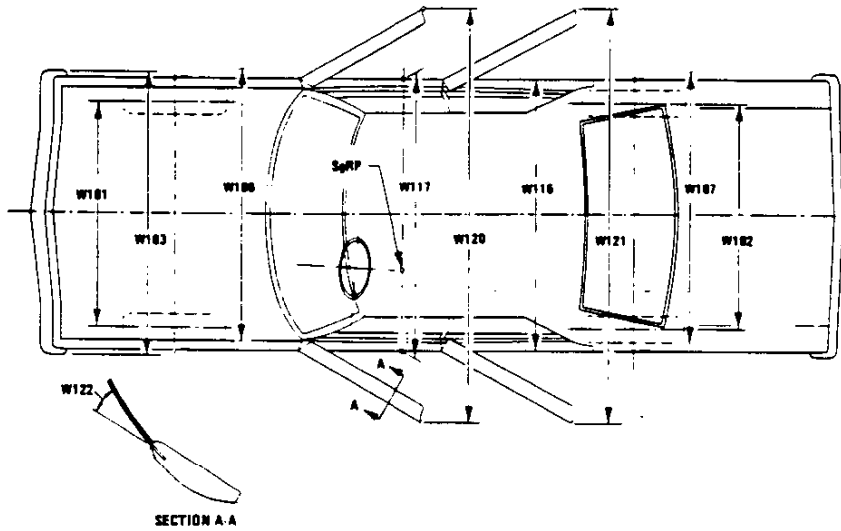


# MVMA Specifications Form

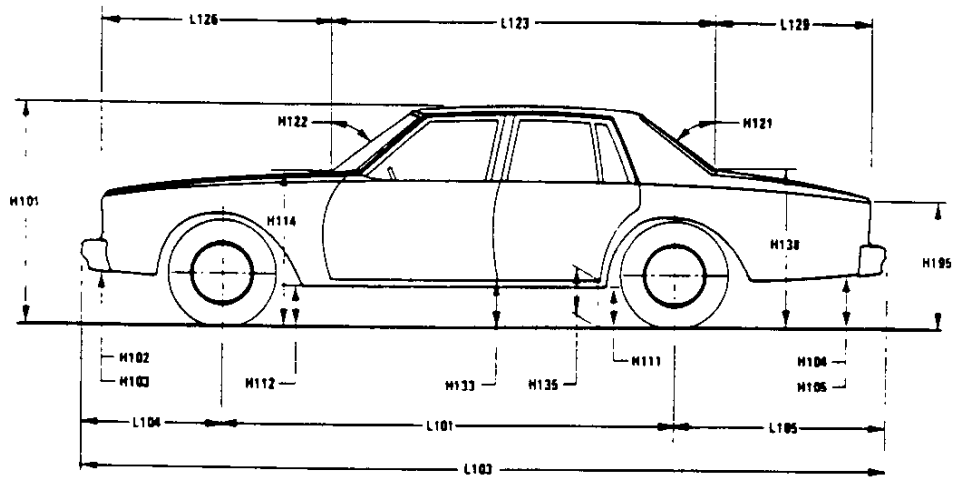
METRIC (U.S. Customary)

## Exterior Vehicle And Body Dimensions - Key Sheet

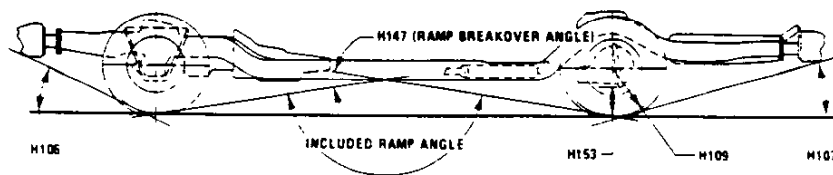
### Exterior Width



### Exterior Length & Height



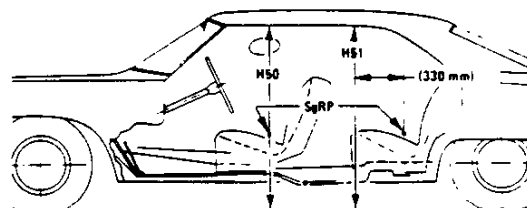
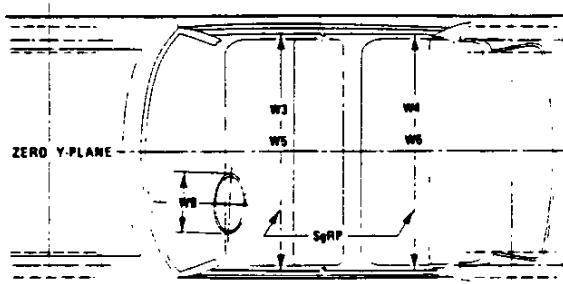
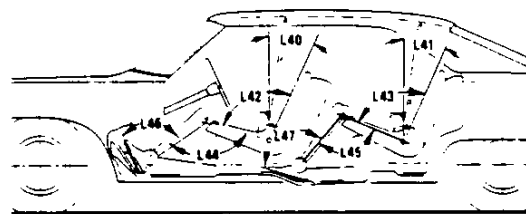
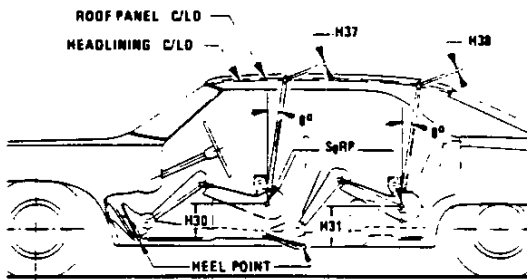
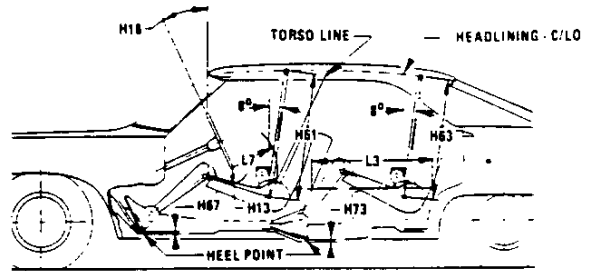
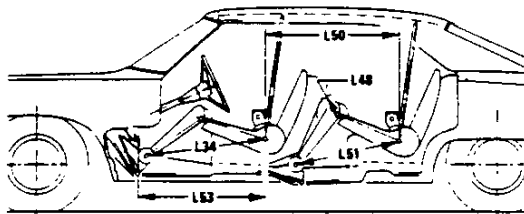
### Exterior Ground Clearance



# MVMA Specifications Form

METRIC (U.S. Customary)

## Interior Vehicle And Body Dimensions – Key Sheet

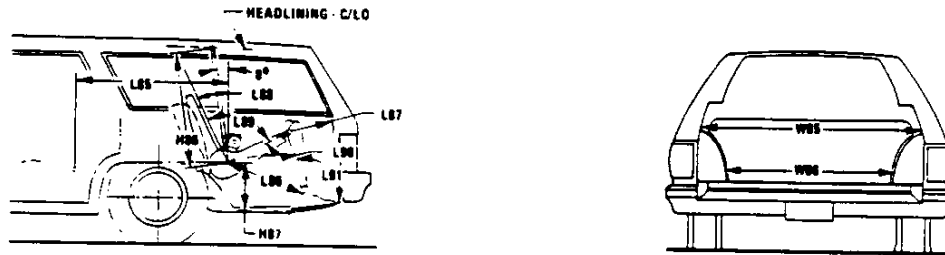


# MVMA Specifications Form

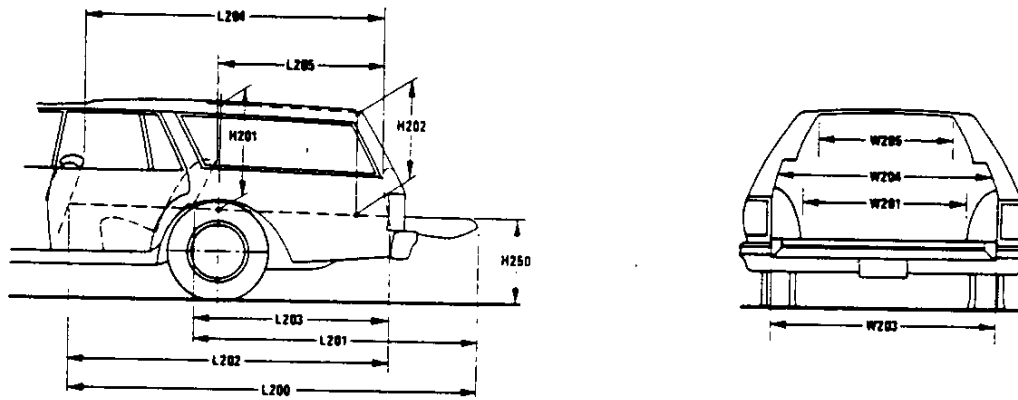
METRIC (U.S. Customary)

## Interior Vehicle And Body Dimensions – Key Sheet

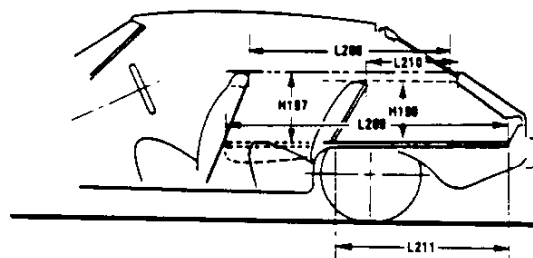
Third Seat



Cargo Space



Station Wagon



Hatchback



# MVMA Specifications Form

## 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.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- 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.

#### 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 OVERHANG—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.
- L125 COWL POINT "X" COORDINATE.
- L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost point of front end contour.
- 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.
- L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

#### 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.
- H133 BOTTOM OF DOOR CLOSED—FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H135 BOTTOM OF DOOR CLOSED—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- 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.

# MVMA Specifications Form

## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

- 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.
- Glass Areas**
- S1 Windshield area.
- S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3 Backlight areas.
- S4 Total area. Total of all areas (S1 + S2 + S3).
- Fiducial Mark Dimensions**
- Fiducial Mark - Number 1**
- L54 "X" coordinate.
- W21 "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at curb weight.
- H163 Height "Z" coordinate to ground.
- Fiducial Mark - Number 2**
- L55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- H162 Height "Z" coordinate to ground at curb weight.
- H164 Height "Z" coordinate to ground.
- Front Compartment Dimensions**
- L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT-FRONT TRAVEL. The dimension measured horizontally between the design H-point-front in the foremost and rearmost seat track positions. (See SAE J1100)
- L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100)
- L31 SgRP-FRONT. "X" COORDINATED.
- L34 MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP-front plus 254 mm (10.0 in) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L-40 BACK ANGLE-FRONT. The angle measured between a vertical line through the SgRP-front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L-42 HIP ANGLE-FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE-FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE-FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
- L53 SgRP-FRONT TO HEEL. The dimension measured horizontally from the SgRP-front to the accelerator heel point.
- W3 SHOULDER ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front at height between the belt line and 254 mm (10.0 in.) above the SgRP-front, excluding the door assist strap and attaching parts.
- W5 HIP ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP-front and 76 mm (3.0 in.) fore and aft of the SgRP-front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
- H17 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP-front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point.
- H37 HEADLINING TO ROOF PANEL-FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
- H50 UPPER BODY OPENING TO GROUND-FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane.
- H61 EFFECTIVE HEAD ROOM-FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP-front to the headlining plus 102 mm (4.0 in.).
- H67 FLOOR COVERING THICKNESS-UNDEPRESSED-FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.
- Rear Compartment Dimensions**
- L3 COMPARTMENT ROOM-SECOND. The dimension measured horizontally from the back of the front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

# MVMA Specifications Form

## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

- L-41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP-second and the torso line.
- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J828).
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254mm (10.0 in.).
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND. Measured in the same manner as W5.
- H31 SgRP-SECOND TO HEEL. The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51 UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP-second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

#### 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.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

#### 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 interior volume index is an estimate of the size of the passenger compartment.

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 – 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 51mm (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 – 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 wheelhouseings at floor level. For any vehicle not trimmed, measure to the sheet metal.

# MVMA Specifications Form

## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

- 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.
- 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.
- 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:  

$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$
 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 electrically 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-HATCHBACK. 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-HATCHBACK. 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 "Y" plane.
- L211 CARGO LENGTH AT FLOOR-SECOND HATCHBACK. 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 seat back to the undepressed floor covering.
- V3 HATCHBACK.  
Measured in inches:  

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = \text{ft}^3$$
 Measured in mm:  

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- 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.
- V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:  
Measured in inches:  

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = \text{ft}^3$$
 Measured in mm:  

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

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METRIC (U.S. Customary)

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