

Specifications Form Passenger Car

1983

METRIC (U.S. Customary)

Manufacturer	Car Line	
Mitsubishi Motors Corporation .	Plymouth Sapporo	,
Mailing Address CHRYSLER CORPORATION	Model Year Issued: 3-1-82	
DETROIT, MICHIGAN 48288	1983 Revised (●)	

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

METRIC (U.S. Customary)

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NOTE:

- 1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
- 2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
- 3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
- 4. Additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

Car Line	P1ymoutn	Sapporo	·	_
Model Year	1983	Issued 3-1-82	Revised (*)	

Car Models

	Model Description	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Truck/Cargo Load—Kilograms (Pounds)
Plymouth Sapporo	A165AHNSL2 A165AHKSL2 A165AHNSL7 A165AHNSL3 A165AHNJL2 A165AHNJL2 A165AHNJL7 A165AHNJL7 A165AHNJL3 A165AHKJL3		3H23F4 3H23F4 3H23F4 3H23F4 3H23F4 3H23F4 3H23F4 3H23F4 3H23F4 3H23F4	(2/3) (2/3) (2/3) (2/3) (2/3) (2/3) (2/3) (2/3) (2/3) (2/3) (2/3)	
	•				L2: For 49 states L7: For California L3: For Canada There is no description for Canada in this spec.

METRIC	(U.S.	Customary)	

Car Line			Plymou	th Sapporo	
Model Year	1983	Issued	3-1-82	_Revised (•)	

Power Teams (Indicate whether standard or optional)

SAE Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

	ENGINE									-		
SERIES AVAILABILITY	Displ.	Carb.		SAE Ne	SAE Net at RPM		TDANIONIOGION	AXLE RATIO				
AVAICABILITY	Liters (in ³)	(Barrels, Fl, etc.)	Compr. Ratio	kW (bhp)	Torque N - m (lb. ft.)	Exhaust System*	TRANSMISSION	(std. first) (indicate A/C ratio)				
Al65A Series	2.555	1	8.2	75 (100)	186 (137)	s	Manual 5-Speed	- 3.08				
	(156)	2B	0.2	at 5000	at 2500	J	Automatic 3-Speed	3.308				
		-										
		,										
		:		·		:						
·												

Car Line	·· · · · · · · · · · · · · · · · · · ·	٠,,	Plymou	th Sapporo
Model Year	1983	_lssued	3-1-82	_Revised (•)

Engine Description/Ca	arb.	G54B (2.55	55 Liters)					
Engine Code	, L	Manual Transmission	Automatic Transmission					
ENGINE - GENE	RAL		·					
Type & description (inl flat,∃location, front, mid transverse, longitudina	l, rear,	In lir Front Longit	ne cudinal					
No. of cylinders		4	 					
Bore			1					
Stroke		98						
Bore spacing (c/l to c/	(1)	101						
Cylinder block materia	ı	Cast i	· · · · · · · · · · · · · · · · · · ·					
Cylinder block deck he	eight	251						
Deck clearance (minim (above or below block)		Below						
Cylinder head material		Alumin	ium alloy					
Cylinder head volume	(cm ³)		.2					
Head gasket thickness compressed)	3	1.25						
Minimum combustion chamber volume (cm ³)		88	88.7					
Cyl. no. system	L. Bank	NA						
front to rear)*	R. Bank	· · · · · · · · · · · · · · · · · · ·	NA					
iring order		1-3-4-2						
Recommended fuel leaded, unleaded, dies	sel)	Unleaded						
Fuel antiknock index (R + M)		RON	91 (minimum)					
Total dressed engiпе m	ass (wt) dry**	175	166					
Engine - Pistons	3							
Material		Aluminium alloy						
Mass, g (weight, oz.) —	Piston Only	450 (16)						
Engine – Camsha	aft							
Location		Center of IN. and EX.	valve on cylinder-head					
Material (kg., weight, lb	os.)	Cast iron						
Mass (kg., weight, lbs.)		2	2.8 (6.2)					
Type of drive	Width	Chain 23	3					
chain or belt)	Pitch		.525					

^{**} Dressed engine mass (weight) includes the following:

Plymouth Sapporo **MVMA Specifications Form** Car Line 1983 Passenger Car _Revised (*) .Issued Model Year **METRIC (U.S. Customary)** Engine Description/Carb. G54B (2.555 Liters) **Engine Code** Engine - Valve System NA Hydraulic Lifters (std., opt., n.a.) Std. Solid Engine - Connecting Rods 0.830(1.8)Drop-forged steel Material & mass (kg., weight, lbs.) Engine - Crankshaft Drop-forged steel Material (kg., weight, lbs.) 175 (38.6)Mass (kg., weight, lbs.) 3 End thrust taken by bearing (no.) Engine - Lubrication System 3<u>90 (56.5) at</u> 2000 Normal oil pressure [kPa (psi) at engine rpm] Stationary Type oil intake (floating, stationary) Full flow Oil filter system (full flow, part, other) 3.8 (3.3) Capacity of c/case, less filter-refill-L (qt.) Engine - Diesel Information

Glow plug, current drain at 0°F Type

Type Supplementary vacuum source (type)

Manufacturer

Pre-chamber design

Opening pressure [kPa (psi)]

Injector nozzle

Fuel

injection pump

Car Line Plymouth Sapporo

Model Year 1983 Issued 3-1-82 Revised (•)

Engine Description/Carb. Engine Code	G54B (2.555 Litres)	··· ,
•	GJ45 (2.333 LICIES)	

Induction ty injection sy	rpe: carburetor, fi stem, etc.	uel					Carbur	etor			
	Mfgr.			Mik	uni	. Co	Ltd.	32-	-35 DID	TA	
	Choke (type)						Automa				
Carbure-	Idle spdrpm	Manual	675	(Up	to	300	mile)	750	(After	300	mile)
tor	(spec. neutral										
	or drive and propane	Automatic	725	(Up	to	300	mile)	800	(After	300	mile)
	if used)							· • • · ·			
idle A/F mi:	κ.										
	Point of injection	on (no.)									
Fuel	Constant, pulse	e, flow									
injection	Control (electronic, mech.)									_	
	System pressu	re [kPa (psi)]						•			
	fold heat control						Water				
	ermostatic or fixe	÷0					Fixed				
Air cleaner	er Standard		Dry, Non-woven cloth								
type Optional			None								
51	Type (elec. or r	nech.)	Mechanical.								
Fuel pump	Location (eng.,	tank)					Engine				
	Pressure range	[kPa (psi)]				19	to 30	(2.8 t)	0 4.3)		

Fuel Tank

Capacity [re	efill L (gallons)}	60 L (15.8 gallons)						
Location (d	lescribe)	Underneath rear floorpan cargo area between rear axle and rear bumpe						
Attachment	1	Bolts						
Material		Steel						
Filler	Location & material	On left side rear quarter panel, steel pipe						
pipe	Connection to tank	Welding						
Fuel line (m	naterial)	Steel pipe						
Fuel hose (material)	Rubber nose						
Return line	(material) .	Steel pipe						
Vapor line ((material)	Steel pipe						
	Opt., n.a.	-						
Extended	Capacity [L (gallons)]							
range	Location & material	-						
tank	Attachment	-						
	Opt., n.a.	_						
	Capacity [L (gallons)]	_						
Auxiliary	Location & material	_						
tank	Attachment	_						
	Selector switch or valve	_						
	Separate fill	_						

Car Line	-	Plymouth Sapporo
Model Year	1983	_IssuedRevised (•)

Engine	Description/Carb.
Engine	Code

G54B (2.555 Liters)

Engi	ine —	Cool	ing	Syst	tem	,

Engine -	- Cooling	g System -		
Coolant red	covery syste	em (std., opt., n.a.)	With condenser tank (Std.)	
Coolant fill	location (ra	id., bottle)	Full	
Radiator ca	ap relief val	ve pressure (kPa (psi))	88 (12.8)	
Circula- tion	Type (ch	oke, bypass)	Choke pellet	
thermostat	Starts to	open at *C (*F)	88 (190.4)	
	Type (cea	Type (centrifugal, other) Centrifugal		
	GPM 100	0 pump rpm		
Water pump	Number of pumps 1			
	Drive (V-t	celt, other)	V-belt	
	Bearing (type)	Ball, integral shaft, permanently se	ealed
By-pass re	circulation	[type (inter., ext.)]	External	
		oss-flow vertical ther) and material)	Tube and corrugated fin coppe	r
	With heat	er—L(qt.)	9.2	
Cooling system		ond.—L(qt.)	- · · · · · · · · · · · · · · · · · · ·	
capacity	Opt. equip	oment [specify-L(qt.)]		
Water jack	ets full leng	th of cyl. (yes, no)	Yes	
Water all a	round cyling	ter (yes, no)	No No	
		Width	490	(mm)
	1	Height	400	(mm)
	Standard	Thickness	32	(mm)
	Ì	Fins per inch	25	
		Width		
Radiator core		Height		
COTO	A/C	Thickness		
	!	Fins per inch		
		Width		
	Heavy	Height		
	duty	Thickness		
		Fins per inch		
		f blades & type d, material)	7-Uneven	_
	Diameter	& projected width	380	
Fan (standard)		to crankshaft rev.)	1.1:1	
(Standard)	Fan cutou	it type	Thermo-hydraulic coupling	
	Drive (typ	e (direct, remote))	V-belt, direct	· · · · · · · · · · · · · · · · · · ·
	Fan shrou	ıd (material)		·
	Diameter	& projected width		
	RPM at id	le		
Fan	Motor rati	ng (wattage)		
(electric)	Motor swi	itch (type & location)		· · · · · · · · · · · · · · · · · · ·
	Switch po	int (temp., pressure)		•
	Fan shrou	id (material)		
	No. of bla	des and spacing	None	
	Diameter	& projected width		
Fan (optional)	Ratio (fan	to crankshaft rev.)		· · · · · · · · · · · · · · · · · · ·
(optional)	Fan cut-o	ut (type)		
		e, direct, remote)		
	• •			

Car Line		Plymouth Sapporo
Model Year	1983	Issued 3-1-82 Revised (•) 7-1-82

Engine Description/Carb. Engine Code			G54B (2.555 Liters)			
			<u> </u>			
Vehicle	Emission	Cont	rol			
	Type (air in modificatio			Engine modifications, Exhaust gas recirculation, Catalytic converter and Air induction		
-		Pump	(type)	None		
	l .	Drive	n by			
	Air Injection		stribution I, manifold, etc.)			
		Point	of entry			
Exhaust Emission			(controlled flow, orifice, other)	Controlled flow		
Control	Exhaust Gas	Exhai	ust source	Exhaust port No. 2		
•	Recircula- tion	(spac	of exhaust injection er, carburetor, lold, other)	Intake manifold		
		Туре		Oxidation		
• • •		Numt	per of	2		
	Catalytic Converter		tion(s)	In exhaust manifold & Under toe board		
			ne [L (in ³)]	0.7 (43) + 1.0 (61)		
	 	1.	trate type	Monolith		
	Type (vention		o atmosphere, other)	Induction system		
Crankcase Emission	Energy sou vacuum, ca	rgy source (manifold uum, carburetor, other)		Intake manifold vacuum		
Control		Discharges (to intake manifold, other)		To intake manifold		
	Air inlet (b	reather	cap, other)	Air cleaner		
	Vapor veni		Fuel tank	Canister		
Evapora-	(crankcase canister, o		Carburetor	Canister		
tive Emission Control	Vapor Storage pi (crankcas			Canister		
Engine	– Exhau	st Sys	stem			
Type (sin dual, othe	gle, single v er)	vith cros	ss-over,	Single		
	o. & type (re hru, separat			One (Reverse flow)		
Resonato	r no. & type			One (Straight flow)		
Exhaust			II thickness			
pipe			hickness	54 x 1.6 (mm) Aluminized steel tube		
	Materia		·			
Inter- mediate	o.d. & w		rness	54 x 1.2 (front), 45 x 1.2 (rear) (mm Aluminized steel tube		
pipe	Materia o.d. & w		kness	45 x 1.2 (mm)		
Tail pipe	Materia			Aluminized steel tube		
		-		11. Min + 11. 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4		

 Car Line _ Plymouth Sapporo

 Model Year _ 1983 _ ___Issued _ 3-1-82 ____Revised (*) _ 8-25-82 _____

Front

Engine Des	scription/Carb.	G54B (2	2.555 Liters)	<u></u>
Engine Cod	de	Manual Trans.	Automatic Trans.	
Electrica	a! — Supply System			
	Voltage rtg. (V & total plates)		12V-90 Plates	
	Minimum reserve cranking			
Battery	SAE capacity (amps)	4	20 amps at 0°F	
	Location		ide of engine compartment	
Generator	Type and rating		55	
or	Ratio (alt. crank/rev.)		2.22:1	
alternator	Optional (type & rating)		None ·	
Regulator	Туре		Voltage Control	
Electrica	l - Starting System			
Start. motor	Current drain at 0°F			
Motor	Engagement type		Solenoid	

Motor drive

Pinion engages from (front, rear)

Car Line	-	· .	Plymo	uth Sapporo
Model Year_	1983	Issued	3-1-82	Revised (*)

Engine Descr Engine Code	iption/Carb.		G54B (2.555 Liters)
Electrical	— Lanitio	n Svetam	
Liectifical			N7.
Tunn		al (std., opt., n.a.)	NA NA
Туре		red (std., opt., n.a.)	Std.
	Other (spec	city)	
	Make		Diamond Electric Manufacturing Co., Ltd.
Coil	Model		LB-119
	Current	Engine stopped — A	None
		Engine idling A	1.4
	Make	NGK Spark Plug	Co., Ltd. or Champion Spark Plug Co., Ltd. or NIPPON DENSC
Spark	Model		BPR5ES-11 or RN-12Y or W16EPR-U10
plug ·	Thread (mm		14
ļ	Tightening	torque [N-m (lb., ft.)]	20 to 30 (15 to 22)
	Gap		1.0 to 1.1 0.9 to 1.0
Distributor	Make		Mitsubishi Electric Corp.
Distributor	Model		T4T620
Electrical	— Suppre	ession	
Locations & t	ype		
Electrical		nents and Equipment	
Speed-	Туре		
ometer		ter (std., opt., n.a.)	
EGR mainten	ance indicat	Or .	NA
Charge	Туре		
indicator	Warning de	vice	
Temperature	Type		Electric thermal
indicator	Warning de	vice	
Oil pressure	Туре		Electric thermal
indicator	Warning de	vice	
Fuel	Туре		
indicator	Warning de	vice	
	Type (stand	dard)	
Wind- shield	Type (optio	nal)	Electric two speed with variable intermittent operation
wiper	Blade lengt	h	450
	Swept area	[cm ² (in. ²)]	5180 (883)
Wind-	Type (stand	dard)	Electric
shield	Type (optio	nai)	NA
washer	Fluid level i	indicator	NA
	Туре		90 diameter
Horn	Number use	ed	two
Other			

Plymouth Sapporo Car Line _ Model Year 1983 Issued 3-1-82 _Revised (•)_

Engine Description/Carb. Engine Code			G54B (2.555 Liters)		
Transmis	sions				
Manual 3-s	peed (std., op	t., n.a.)	N.A.		
Manual 4-s	peed (std., op	t., n.a.)	N.A.		
Manual 5-s	peed (std., op	t., n.a.)	Std.		
Manual ove	rdrive (std., o	ot., n.a.)	N.A.		
Automatic (std., opt., n.a.)		Std.		
Automatic o	verdrive (std.,	opt., n.a.)	N.A.		
Manual T	ransmissio	on			
Number of	forward speed	ls	5		
	In first	· 	3.740		
	In second		2.136		
	In third		1.360		
Transmis- sion ratios	In fourth		1.000		
	In fifth		0.856		
	In overdrive				
	In reverse		3.578		
Synchronou	s meshing (sp	ecify gears)	1, 2, 3, 4, 5		
Shift lever I	ocation				
	Capacity [L	(pt.)]	2.3 (4.9)		
	Type recom	mended	Multipurpose gear oil conforming to API GL-4		
Lubricant	SAE vis-	Summer	SAE 80W, 75W-85W		
	cosity	Winter	SAE 80W, 75W-85W		
	number	Extreme cold	SAE 80W, 75W-85W		
Clutch (N	fanual Tra	nsmission)	.		
Make & type	e		Daikin Manufacturing Co., Ltd.		
Type pressi	ure plate sprir	ngs	Djaphragm		
Total spring	load [N (lb.)]		4020 (904)		
No. of clutc	h driven discs		One		
	Material		Woven Asbestos		
	Manufactu	rer	Akebono Brake Ind. Co., Ltd. or Hitachi Chemi	cal Co., Ltd	
	Part number	er	None		
	Rivets/plat	e			
Clutch	Rivet size		4	(mm)	
facing	Outside &	inside dia.	225 x 150	(mm)	
	Total eff. a	rea (cm²(in.²))	442 (68.5)		
	Thickness		3.5	(mm)	
	Engagemer method	nt cushion	Flat-wave springs		
Release bearing	Type & me of lubricati		Ball bearing, permanently lubricat	ed	
Torsional damping	Method: sp friction ma		Coil springs and friction washer	S	

Car Line	Plymout	:h Sapporo	···	
Model Year_	1983	Issued <u>3-1-82</u>	Revised (*)	

Engine Description/Carb. Engine Code		b.	G54B (2.555 Liters)
Automatic	c Iransmi	ssion	Chays Ion Motors Corp. 4904
Trade name			Chrysler Motors Corp. A904 Torque converter with automatically operated
Type (descri	ibe)		Planetary gear transmission
Selector	Location		Lever: Console mounted
	Ltr./No. de	signation	P. R. N. D. 2. L/6
	R		2.214
Gear	D		2.745, 1.543, 1.000
ratios	1 4		
	L ₂		2.745, 1.543
	L ₁		2.745
Max. upshift	speed - driv	/e range (km/h (mph))	109 (68)
Max. kickdo	wn speed -	drive range [km/h (mph)]	100 (63)
Min. overdri	ve speed [kr	n/h (mph)]	
	Number of	elements	Three
Torque	Max. ratio	at stall	1,96:1
converter	Type of co	poling (air, liquid)	Liquid
	Nominal d	iameter	240
Lubricant	Capacity [refill L (pt.)]	6.8 (14.4)
Ludiicaiii	Type reco	mmended	DEXRON or DEXRON II automatic transmission fluid
Axle or F	ront Whe	el Drive Unit	
Type (front,	rear)		Rear
Description		,	Separable Separable
*		1	
Limited slip	differential	(type)	N.A.
Limited slip		(type)	N.A. 30 (mm)
<u> </u>	offset	(type)	30 (mm)
Drive pinion Drive pinion	offset		
Drive pinion Drive pinion No. of differen	offset (type)	S	30 (mm)
Drive pinion Drive pinion No. of differe Pinion adjus	offset (type) ential pinion	s , other)	30 (mm) Hypoid 2
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari	offset (type) ential pinion stment (shim	s , other) n, other)	30 (mm) Hypoid 2 Shim
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari	offset (type) ential pinion stment (shim ing adj. (shin	s , other) n, other) ype)	30 (mm) Hypoid 2 Shim Shim
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t	s, other) n, other) ype) [L (pt.)]	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33)
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t Capacity Type reco	s , other) , n, other) ype) [L (pt.)] , mmended	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33) Multipurpose gear oil conforming to API GL -4
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari Driving whee	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t Capacity Type reco	s, other) n, other) ype) [L (pt.)]	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33) Multipurpose gear oil conforming to API GL -4 SAE 90 85W-90 80W-90 (above -10°F)
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari Driving whee	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t Capacity Type reco	s , other) n, other) ype) [L (pt.)] mmended Summer Winter	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33) Multipurpose gear oil conforming to API GL -4 SAE 90 85W-90 80W-90 (above -10°F) SAE 85W 80W-90 (as low as -30°F)
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari Driving whee	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t Capacity Type reco SAE vis- cosity	s , other) , n, other) ype) (L (pt.)) , mmended Summer	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33) Multipurpose gear oil conforming to API GL -4 SAE 90 85W-90 80W-90 (above -10°F)
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari Driving when Lubricant	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t Capacity Type reco SAE vis- cosity number	s , other) , n, other) ype) (L (pt.)) , mmended Summer Winter Extreme cold	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33) Multipurpose gear oil conforming to API GL -4 SAE 90 85W-90 80W-90 (above -10°F) SAE 85W 80W-90 (as low as -30°F)
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari Driving whee Lubricant	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t Capacity Type reco SAE vis- cosity number	s , other) n, other) ype) [L (pt.)] mmended Summer Winter Extreme cold Ratio and Tooth Com	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33) Multipurpose gear oil conforming to API GL -4 SAE 90 85W-90 80W-90 (above -10°F) SAE 85W 80W-90 (as low as -30°F) SAE 75W (below -30°F)
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari Driving whee Lubricant Axle or Ti	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t Capacity Type reco SAE vis- cosity number	s , other) n, other) ype) [L (pt.)] mmended Summer Winter Extreme cold Ratio and Tooth Com	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33) Multipurpose gear oil conforming to API GL -4 SAE 90 85W-90 80W-90 (above -10°F) SAE 85W 80W-90 (as low as -30°F) SAE 75W (below -30°F)
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari Driving whee Lubricant	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t Capacity Type reco SAE vis- cosity number ransaxie	s , other) n, other) ype) [L (pt.)] mmended Summer Winter Extreme cold Ratio and Tooth Compo	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33) Multipurpose gear oil conforming to API GL -4 SAE 90 85W-90 80W-90 (above -10°F) SAE 85W 80W-90 (as low as -30°F) SAE 75W (below -30°F) Dinations (See "Power Teams" for axle ratio usage) 3.308 13
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari Driving when Lubricant Axle or Ti Axle ratio or	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t Capacity Type reco SAE vis- cosity number ransaxie Pinion Ring gear	s , other) n, other) ype) [L (pt.)] mmended Summer Winter Extreme cold Ratio and Tooth Compo	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33) Multipurpose gear oil conforming to API GL -4 SAE 90 85W-90 80W-90 (above -10°F) SAE 85W 80W-90 (as low as -30°F) SAE 75W (below -30°F) Dinations (See "Power Teams" for axle ratio usage) 3.308
Drive pinion Drive pinion No. of differe Pinion adjus Pinion beari Driving whee Lubricant Axle or To Axle ratio or	offset (type) ential pinion stment (shim ing adj. (shin el bearing (t Capacity Type reco SAE vis- cosity number ransaxie Pinion Ring gear	s, other) n, other) ype) [L (pt.)] mmended Summer Winter Extreme cold Ratio and Tooth Components or gear	30 (mm) Hypoid 2 Shim Shim Ball 1.1 (2.33) Multipurpose gear oil conforming to API GL -4 SAE 90 85W-90 80W-90 (above -10°F) SAE 85W 80W-90 (as low as -30°F) SAE 75W (below -30°F) Dinations (See "Power Teams" for axle ratio usage) 3.308 13 43

Plymouth Sapporo.

MVMA Specifications Form Passenger Car METRIC (U.S. Customary)

Car Line			
Model Year_	1983	Issued_3-1-82	Revised (*)

Engine	Description/Carb.
Engine	Code

	G54B (2.555 Litres)
Manual Trans.	Automatic Trans.

Propeller Shaft - Conventional Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)				Straight	Tube			
	Manual 3-speed trans		ıs	N.A	•			
	Manual 4-sı	peed trar	IS.	N.A	١.			
Outer diam. x length* x wall thick-	Manual 5-sı	peed trar	is.	75 x (664 + 606) x 1.6	(mm)			
ness	Overdrive			N.A	·			
Automatic transmission		ion		65 x (560 + 627) x 1.6 (mm)				
Inter-	Type (plain, anti-friction)			Anti friction				
mediate bearing	Lubrication (fitting, prepack)			Prepack				
	Туре			Sliding spline				
Slip yoke	Number of	teeth		23 (24 Indexed)	25 (26 Indexed)			
	Spline o.d.			27.3	29.3 (mm)			
-			Front	Cross : MMC, Bearing	: Koyo Seiko Co. Ltd.			
	Make and r	ntg. no.	Rear		: Koyo Seiko Co. Ltd			
	Number use	ed		Three				
	Type (ball a	and trunt	nion, cross)	Cro	oss			
Universal joints	Rear attach (u-bolt, clamp, etc.)		clamp, etc.)	Clamp (Snap ring)				
		Type (anti-fri	plain,	Anti-friction				
	Bearing	Lubric	, (fitting, ck)	Pre	pack			
Drive taken arms or spr	through (torquings)	ue tube,	-	Lower Arm &	Upper Arm			
Torque take arms or spr	 en through (tor ings)	que tube		Lower Arm &	Upper Arm			

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

	Plymouth	Sapporo			
Car Line			· ·		
Model Year	1983	Issued 3-1	-82	Revised (*)	

Engine Description/Carb. Engine Code			G54B (2.555 Litres)		
Engine Code					
Tires 4	and Wheels (Standard)	,		
			P195/70R14, Standard load		
Size (load range, ply) Type (bias, radial, etc.)			Radial		
Tires	Inflation pressure (cold) for	Front [kPa (psi)]	165 (24)		
	recommended max, vehicle load	Rear [kPa (psi)]	165 (24)		
	Rev./mile-at 7	0 km/h (45 mph)	520		
	Type & material	I	Disc, Steel		
	Rim (size & flan	ige type)	14 x 5 1/2 JJ		
Wheels	Wheel offset		_24	_(mm)	
***************************************		Type (bolt or stud)	Stud		
	Attachment	Circle diameter	114.3	(mm)	
		Number & size	Four, M12 x 1.5 (Metric)		
Spare	Tire and wheel other describe)		Other, T125/70D15 High pressure tire		
apare	Storage position (describe)	n & location	Package room		
Tires A	and Wheels (Optional)			
	id range, ply)	<u> </u>			
	as, radial, etc.)				
	ype & material)		Disc, Aluminum		
	e, flange type and	t offset)	14 x 5 1/2 JJ		
	d range, ply)				
	as, radial, etc.)				
	ype & material)	· · · · · · · · · · · · · · · · · · ·			
Rim (size	e. flange type and	d offset)			
Size (loa	d range, ply)				
Type (bia	as, radial, etc.)	, - "			
Wheel (t	ype & material)				
Rim (size	e, flange type and	d offset)			
Size (loa	d range, ply)				
Type (bia	as, radial, etc.)				
Wheel (t	ype & material)				
Rim (size	e, flange type and	d offset)			
Spare tir	e and wheel				
	nfiguration is diff tire or wheel, des				
optional spare tire and/or wheel		i/or wheel			
locati	on & storage pos	sition)			
	- Parking	- 	1 Uandla Uand anamated		
Type of control			1 Handle, Hand-operated Between front seats		
	of control		Rear wheels		
Operates	· · · · · · ·	rnal or external)	Rear wheels		
II sepa-	Drum diam				
rate from service brakes	Lining size	e (length x	-		
width x thickness)		ickness)			

METRIC (U.S. Customary)

	Plymouth Sapporo	
Carline		
arine		

Model Year 1983 Issued 3-1-82 Revised (•) 7-9-82

Body Type And/Or Engine Displacement

G54B (2.555 Litres)

Brakes - Service

Brakes	- Serv	ICe						i			
Description	n					Standard			opti	on	
Brake type			Front (disc or	drum)		Disc			Dis		
(std., opt., i			Rear (disc or	drum)		Drum			Dis	<u>C</u>	
Self-adjus	ting (std.,	opt., n.a.)		<u> </u>		Std	•			
Special valving	Type (p	roportion	n, delay, metering	, other)		roportion valverating in fro		Propo	rtion	valve	
Power brai	ke (std., o	pt., n.a.)			f t		Std				
Booster ty	pe (remot	e, integra	al, vac., hyd., etc.)			Integ				
Anti-skid o	device typ	e (std., d	pt., n.a.)				N.A				
Effective a					F:208	(32.2), R:348			2.2),	R:128	(19.8)
Gross linir]**		F:214	(33.2), R:348	(53.9)		3.2),	R:133	<u>(20.6)</u>
Swept are	a [cm ² (in	.2)] ***			ļ <u>.</u>	1844 (285.8)		2		50.1)_	
	Outer w	vorking d	liameter	F.		252			25		(mm)
				R	ļ				24		(mm)
	Inner w	orking d	liameter	F	ļ	152			15		<u>/mm</u>
Rotor	ļ		· · · · · - · ·	R .	ļ			 	16		(mm)
	Thickn	ess		F	<u> </u>	12.5			12.		(<u>mm</u>)
				R	 	ant then /Colt	al		10		<u> (mm)</u>
	Material & type (vented/solid)		F	Cast iron (Solid)		Cast iron (Solid) Cast iron (Solid)					
	 			R	<u>-</u>		cast from (Soria)		<u>u / </u>		
Drum	Diamete (nomina			R	228.6					(mm)	
Dium	Type a	nd mater	ial	!''	 	Cast iron					
14/511	Eroni	iid iiidioi	,,		1	53.97			53.	97	
Wheel cyl- inder bore			 · · · · · · · · · · · · · · · · · ·		20.64			38.			
Master	Bore						22.	22		· · · · · · · · · · · · · · · · · · ·	
cylinder	Stroke						31				
Pedal arc	ratio						4.4	2			
Line press	sure at 44	15 N (100	0 lb.) pedal load	[kPa (psi)]		9930 (1447)				1783)	
Lining clearance	Eront	_		•		No maj	or adjus	tment requ	ired		
per shoe	Rear				0.3~0	.47 (Self adju			justme	nt requ	uired_
		Bonded	or riveted (rivet	s/seg.)			Bon	ded			
		Rivet si	ize					<u> </u>			
		Manufa			Akebono Brake Industry Ltd.						
	Front	Lining			AKV 3015EE						
	wheel	Materia					Mole				
	Size Secondary or in-board Shoe thickness (no lining)							5.6 x 10.5		<u>-</u>	
Brake				111.6 x 46.6 x 10.5 5.0							
lining	<u> </u>		d or riveted (rivet		 		Bond				
		Manufa		.ar aeg.r		Akaban		Industry L	+d		
		Lining			 	AKB 701 AFE	U DI ake	riidus cry L	AKS 2	6GF	
	Rear	Materia			 	Molded			Molo		
	wheel	***	Primary or out-	board		219 x 40 x 4.3	3	95		3.6 x 8	.5
		Size			 -	219 x 40 x 4.3				3.6 x 8	
	Size Secondary or in-board		hickness (no lini		+	2.0			6.		

^{*} Excludes rivet holes, grooves, chamfers, etc.

Page 14

^{**} 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 thickness.

Car Line	Plymouth	Sapporo		
Model Year	1983	Issued 3-1-82	Revised (•)	

Body Type And/Or Engine Displacement			G54B (2.555 Litres)			
Steering	}					
Manual (st	d., opt., n.a.)			N,A.		
Power (std	opt. n.a.)			Std.		
Adjustable steering w	Type and		1	Tilt		
(tilt, swing,	other)	(Std., opt.,	n.a.)	Std.		
Minage diag		Manual		<u> </u>		
wheel dia	Wheel diameter			380		
	Outside	Wall to wa	II (I, & r.)	5.5 (18.0)		
Turning	front	Curb to cu	rb (l. & r.)	5.0 (16.4)		
diameter m (ft.)	Inside	Wall to wa	ll (l. & r.)	-		
	rear	Curb to cu	rb (l. & r.)			
	,					
		Туре				
	Gear	Make				
Manual		Ratios	Gear			
			Overall			
		l turns (stop	_	Internal time name at against		
		axial, linkag	e, etc./	Integral type power steering Koyo Seiko Co. Ltd.		
	Make	T		Recirculating ball nut		
	1_	Type				
Power	Gear	Ratios	Gear	16.4 17.1		
		1	Overall	V-Belt		
	Pump (di			3.4		
	Type	l turns (stop	to stop)	Parallelogram, trailing, equal length the rods		
Linkage		(front or rea	ar	Rear		
	ļ	s (trans. or	longit)	Transverse center line		
		(one or two)		Two		
	Inclination at camber (deg.)			9° 30'		
Steering		Upper		Ball bearing		
axis	Bearings	Lower		Ball Joint		
(type) Lower Thrust			-			
Steering s	pindle & joi	nt type		Ball		
	1	Inner bear	ring	31.750	<u>mm)</u>	
Wheel	Diameter	Outer bea	ring		<u>mm)</u>	
spindle	Thread	(size)		M16 x 1.0 (Metric)		
	Bearing	(type)		Tapered roller		
	Bearing	(туре)		Tapered rotter		

Plymouth Sapporo Model Year 1983 _lssued__3-1-82 _ Revised (*)_

Body	Туре	And/Or	
Ei-	- Di-		٠

G54B (2.555 Litres)

Service	Caster (deg.)	2°40' [±] 30'	
	Service checking	Camber (deg.)	1°10'± 30'
	Checking	Toe-in (outside track-mm (in.))	0 (0)~7 (0.28)
Front		Caster	
wheel at curb mass	Service	Camber	
·(wt.)	reset*	Toe-in	
	Periodic M.V. in- spection	Caster	······································
		Camber	
		Toe-in	
•	Service	Camber (deg.)	
	checking	Toe-in [outside track-mm (in.)]	
Rear wheel at curb mass (wt.)	Service	Camber	
	reset*	Toe-in -	
(WL)	Periodic	Camber	
	M.V. in- spection	Toe-in	

^{*} Indicates pre-set, adjustable, trend set or other.

Plymouth Sapporo

Car Line_ Model Year 1983 Issued 3-1-82 Revised (*)_

,							
Body Type And/Or Engine Displacement			G54B (2.555 Litres)				
Suspensi	on – Ge	eneral					
Odabaliai	Std./opt		N.A	<u> </u>			
Car		ir, hyd., etc.)	N.A				
leveling	<u> </u>	auto, controlled					
Provision for			N.A				
Provision for			N.A				
Special prov			N.A	****			
Shock	Туре			December 1			
absorber	Make		Front:Strut type Kayaba Industry Co. Ltd.	Rear:Telescopic type	_		
(front & rear)	Piston d	liameter		<u>←</u> 25	(mm)		
Other specia	J		32 N.A		<u>(mm)</u>		
Suspensi	on – Fr	ont			- ,		
Type and de	escription		Independent	strut type			
Travel	Full jour	nce	90		(mm)		
i i avei	Full rebound		90		(mm)		
)	Type (coil, leaf, other)		Coil.				
<i>!</i>	Material			Specified in JIS)			
Spring	Size (coil design height & i.d., bar length x dia.)		370.0, 116.8 357.5, 117.0				
	Spring rate [N/mm (lb./in.)]		21.6 (123.2)				
	Rate at wheel [N/mm (lb./in.)]		19.2 (109.8)				
04.1.11	Type (link, linkless, frameless)		Link				
Stabilizer	Material & bar diameter		SUP6, 22				
Suspensi	on – Re	ear					
Type and de	scription		Rigid	Axle			
Drive and to	roue taken	through	Upper and lowe	w control avm	···		
	Full jour		opper and rowe		(mm)		
Travel	Full rebo		90		(mm)		
		oil, leaf, other)	Coil				
	Material		SUP6				
	Size (ler	ngth x width, coil design					
		i.d., bar length & dia.)	349 , 1	U3.2	(mm)		
Spring	Spring ra	ate [N/mm (lb./in.)]	18.0~34.2 (1	$03.0 \sim 195.4$			
	Rate at v	wheel [N/mm (lb./in.)]	18.0 ~34.2 (103.0 ~195.4)				
	Mountin	g insulation (type)	Rubbe	r pad			
	If	No. of leaves		-			
/	leaf	Shackle (comp. or tens.)		-			
Stabilizer	Type (lir	ık, linkless, frameless)	N.A.				
		& bar diameter					
Track bar (ty	pe)						

Car Line	Ply	mouth Sapporo		
Model Year	1983	Issued3-1-82	Revised (*)	

Body Type	G54B	(2.555 Liters)	

Body -	Miscellaneous	Information
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Type of finish (lacquer, enamel, other)			Heat satting acrylic enamel
	Hinge location (front, rear)		Rear
Hood	Type (counterba	alance, prop)	-
	Release control	(internal, external)	Internal
Trunk	Type (counterba	alance, other)	Coil spring
lid	internal release	control (elec., mech., n.a.)	Mech.
Bumper	Bar material & n	nass (wt.)	Polyurethane (1.73 kg)
front	Reinforcement material & mass (wt.)		Steel (11.5 kg)
Bumper	Bar material & r	mass (wt.)	Polyurethane (1.9 kg)
rear	Reinforcement material & mass (wt.)		Steel (14.3 kg)
Vent wind	ow control (crank,	Front	None
friction, pi	ivot, power)	Rear	None
		Front	Spring
Seat cush	ion type	Rear	Urethane form
		3rd seat	-
Front Seat back type Rear 3rd seat		Front	Spring
		Rear	Spring
		3rd seat	
Vehicle ident. no. location			Left front corner of instrument panel
			·

Passive Restraint System

	Standard/ optional	N.A.
Inflatable restraint system	Type of charging system	-
	Location (stg. whl., instru. panel, other)	
•	Standard/ optional	N.A.
Passive seat belts	Power/ manual	
	2 or 3 point	
٨	Knee bar/ lap belt	

Type and description (separate frame, unitized frame, partially-unitized frame) Unitized construction

Car Line Plymouth	Sapporo			 ,
Model Year 1983	Issued_	3-1-81	Revised (•)_	

Body Type		G54B (2.555 Liters)				
Converi	ence Equipment					
CONTEN		Ontional				
Power	Side windows Vent windows	Optional N.A.				
windows	Backlight or tailgate	N.A.				
		NIA.				
well as ava		N.A.				
Reclining t	ront seat back (r-l or both)	Std.				
Radio (spewell as ava	cify type as iilability)	Std. (FM/AM-Multi)				
Premium so	ound system (specify)	Optional (FM/AM ELECT, TUNE WITH CASSETTE STEREO)				
Rear seat s		Std.				
Power ante	nna	N.A.				
Clock		Std. (Digital)				
	oner (specify type)					
<u> </u>	ning device	N.A.				
Speed cont						
Ignition loc Dome lamp		N.A.				
	partment lamp	Std.				
	ompartment lamp	Std.				
Underhood		Std.				
Courtesy la	<u>-'-</u>	N.A. Std:				
Map lamp		Std.				
Cornering I	amp	N.A.				
Rear windo electrically	w defroster heated	Std.				
Rear windo	w defogger	N.A.				
T-bar roof		N.A.				
Sun roof (a	lescribe)	N.A.				
Theft prote	ection-type	Disk tumbler, keylocks on ignition switch, doors, fuel lid, luggage compartment & lockable steering.				
		raggage comparement a rockapie secci ing.				
						
		•				
· · · · ·						

Car Line	Plymo	outh Sapporo	•	
Model Year	1982	Issued 3-1-82	Revised (a)	

FEATURE HIGHLIGHTS

(Manufacturers selected list of special vehicle features; indicate if new or model year introduced)

BODY:

- Anti-corrosion treatment
- Safety body structure

CHASSIS:

- Front-Mcpherson struts & coil
- Rear- 4 link & coil with assist link

ENGINE:

• 2.6 £ 4 cylinder OHC with balancer shaft and MCA-JET system

ELECTRICAL:

- 1. Standard
- Maintenance free battery
- Variable intermittent wiper
- AM/FM radio with 4 speaker
- Digital quartz clock

- 2. Option
 - Electronic instrument cruster
 - Audible warning
 - Power window
 - Electronic tuning radio (AM/FM MPX) with cassette and 6 speaker
 - Illuminated entry system

OTHER:

- 2 Tone paint (Option)
- Door trim panel with map pocket

Plymouth Sapporo Model Year <u>1983</u> Issued <u>3-1-82</u> Revised (•)_

	Vehicle Mass (weight)							
	CURB MASS, kg. (weight, lb.) *			% PASS. MASS DISTRIBUTION				
- Model -	Front	Rear	Total		in Front	Pass Ir	Rear	SHIPPING MASS, kg
14.55111151.0		1		Front	Rear	Front	Rear	(weight, lb.)**
A165AHNSL2	660	575	1235	49	51	19	81	1187
A165AHNSL7	(1455)	(1 <u>268</u>)	(2723)	49	51	19	81	(2617)
71105/IIIISE7	660 (1455)	575 (1268)	1235 (2723)	49_	1- 21-	19	01	1187
A165AHNJL2	660	575	1235	49	51	19	81	(2617) 1187
7.100/AINOEE	(1 455)	(1268)	(2723)	- 	<u> 31 </u>	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	01	(2617)
A165AHNJL7	660	575	1235	· 49	51	19	81	1187
THE OF TH	(1455)	(1268)	(2723)	 	 	 		(2617)
A165AHKSL2	665	575	1240	49	51	19	81	1192
·	(1466)	(1268)	(2734)			<u> </u>	<u> </u>	(2628)
A165AHKSL7	6.65	575	1240	49	51	19	81	1192
	(1466)	(1268)	(2734)				,	(2628)
A165AHKJL2	665	575	1240	49	51	19	81	1192
	(1466)	(1268)	(2734)					(2628)
A165AHKJL7	665	575	1240	49	51	19	81	1192
· · · · · · · · · · · · · · · · · · ·	(1466)	(1268)	(2734)		· ·			(2628)
					<u> </u>	•		
	 		<u> </u>					
<u> </u>	 			<u> </u>	<u> </u>			•
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 $^{^{\}bullet}$ Reference — SAE J1100a, Motor vehicle dimensions, curb weight definition. $^{\bullet\dagger}$ Shipping mass (weight) definition —

Car Line Plymouth Sapporo

Model Year 1983 Issued 3-1-82 Revised (*)

METRIC (U.S. Customary)

	Optional Equipm			nent Differential Mass (weight)*		
	MASS, kg. (weight, lb.)			_		
Equipment	Front	Rear	Total	Remarks		
FM/AM_FLECT tune with	1.0	0.7	1.7			
FM/AM-ELECT, tune with cassette	(2.2)	(1.6)	(3.8)			
	142.021	11.0/	1 (3.0/			
POWER WINDOWS	2.5	3.2	5.7			
TONER WINDOWS	(5.5)	(7.1)	(12.6)			
	(3.3)	17.17	(12.0)			
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 $^{^{\}star}$ Also see Engine — General Section for dressed engine mass (weight).

Car Line	Plymouth	Sapporo	
Model Year_	1983	Issued_3-1-82	Revised (•)

METRIC (U.S. Customary)

Car and Body 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 car line. SAE Ref. no. refers to the definition published in SAE Recommended Practice.
J1100a "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	G54B (2.555 Liters)
Width		
Tread (front)	W101	1375
Tread (rear)	W102	1355
Vehicle width	W103	1675
Body width at Sg RP (front)	W117	1675
Vehicle width (front doors open)	W120	3640
Vehicle width (rear doors open)	W121	3040
Length		
Wheelbase	L101	2530
Vehicle length	L103	4573
Overhang (front)	L104	931
Overhang (rear)	L105	1112
Upper structure length	L123	2487
Rear wheel C/L "X" coordinate	L127	2530
Cowl point "X" coordinate	L125	470
Height*		•
Passenger distribution (frt./rear)	PD1,2,3	Front: 2, Rear: 3
Trunk/cargo load		110110: 2, 11011: 3
Vehicle height	H101	1340
Cowl point to ground	H114	953
Deck point to ground	H138	953
Rocker panel-front to ground	H112	225
Bottom of door closed-front to grd.	H133	303
Rocker panel-rear to ground	H111	227
Bottom of door closed-rear to grd.	H135	
Ground Clearance*	H122	59
Front bumper to ground	H102	410
Rear bumper to ground	H104	401
Bumper to ground [front at curb mass (wt.)]	H103	411
Bumper to ground [rear at curb mass (wt.)]	H105	410
Angle of approach	H106	26
Angle of departure	H107	19
Ramp breakover angle	H147	19
Rear axle differential to ground	H153	168
Min. running ground clearance	H156	152
Location of min. run. grd. clear.		MUFFLER

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds).

^{*} All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified. Manuafacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

Car Line Plymouth Sapporo

Model Year 1983 Issued 3-1-82 Revised (*)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	G54B (2.555 Liters)
Front Compartment		
Sg RP front, "X" coordinate	L31	1400
Effective head room	H61	935
Max. eff. leg room (accelerator)	L34	1045
Sg RP (front to heel)	H30	245
Design H-point front travel	L17	199
Shoulder room	W3	1315
Hip room	W5	1350
Upper body opening to ground	H50	1232
Steering wheel angle	H18	22
Back angle	L40	23
Rear Compartment Sg RP Point couple distance	L50	700
Effective head room	H63	900
Min. effective leg room	L51	880
Sg RP (second to heel)	H31	295
Knee clearance	L48	0
Compartment room	L3	445
Shoulder room	W4	1295
Hip room	W6	1045
		
Upper body opening to ground	H51	_
Upper body opening to ground Luggage Compartment	H51	-
	H51	9.27

All linear dimensions are in millimeters (inches).

Car Line	٠.	Plymouth	Sapporo.		•	•
Model Year_	1983	Issued	3-1-82	_Revised (*)_		

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.
Station Wagon — Third Seat	
houlder room	W85
lip room	W86
ffective leg room	L86
ffective head room	Н86
ffective T-point head room	н89
Seat facing direction	SD1
Station Wagon — Cargo Spa Cargo length (open front)	L200
Cargo length (open second)	L201
Cargo length (closed front)	L202
Cargo length (closed second)	L203
Cargo length at belt (front)	L204
Cargo length at belt (second)	L205
argo width (wheelhouse)	W201
Rear opening width at floor	w203
pening width at belt	W204
lax, rear opening width above belt	W205
argo height	H201
ear opening height	H202
ailgate to ground height	H250
ront seat back to load floor height	H197
argo volume index [m ³ (ft. ³)]	V2
lidden cargo volume [m ³ (ft. ³)]	V4
latchback — Cargo Space	
ront seat back to load floor height	H197
argo length at front seat ack height	L208

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

All dimensions are in millimeters (inches).

V4

Cargo volume index [m³(ft.³)] Hidden cargo volume [m³(ft.³)]

Car Line Plymouth Sapporo

Model Year 1983 Issued 3-1-82 Revised (•)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	G54B (2.555 Liters)	

iducial N Number*	/Jark	Define Coordinate Location	
	•	+Z	
Front	+Y	+X	
	-X_		
		-Z	
Rear	Det	um plane difinition - Vertical longitudinal plane through the longitudinal center of the car. Vertical transverse plan through the front wheel center: Horizontal plane through the bottom of the rocker panels.	
Fiducial Mark	,		· :
Number	W21	345	
	L54	20	•
_	H81	111	
Front	H161	317	
	H163	319	
	W22	480	
		3250	
Rear	W22 L55 H82	3250 232	
Rear	W22 L55	3250	

 $^{^*}$ Reference — SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks — September, 1973. All linear dimensions are in millimeters (inches).

Plymouth Sapporo Car Line. __Issued__3-1-82 1983 Model Year. Revised (*).

METRIC (U.S. Customary)

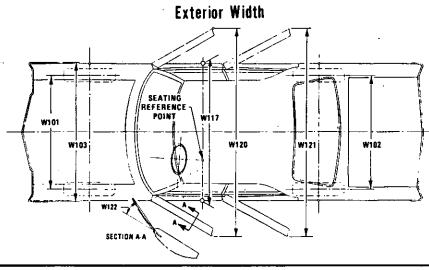
Car and Body Dimensions See Key Sheets for definitions

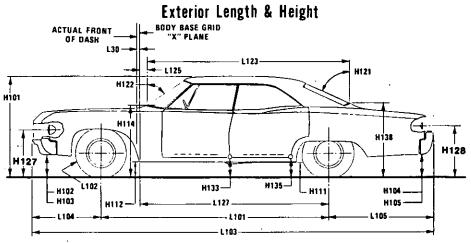
Body Type		SAE Ref. No.	G54B (2.555 Liters)			
Glass						
Backlight slope	angle (deg.)	H121	62 (°)			
Windshield slop	e angle (deg.)	H122	56 (°)			
Tumble-Home (deg.)		W122	24 (°)			
Windshield glass exposed surface area [cm²(in.²)]		S1	7680 cm² (11.9 in²)			
Side glass exposed surface area [cm²(in.²)]		S2 ·	8120 cm ² (12.6 in ²)			
Backlight.glass surface area (cn		S3	9040 cm² (14.0 in²)			
Total glass expo area [cm²(in.²)]	osed surface	S4	24840 cm ² (38.5 in ²)			
Windshield glas	s (type)		Curved-Laminated Plate			
Side glass (type	·)		Curved-Tempered Plate			
Backlight glass (type)			Curved-Tempered Plate			
Lamps and H	leadlamp Sha	pe*				
	Headlamp (H127)	Highest**	699			
		Lowest	699			
Height above ground to	Taillamp (H128)	Highest**	733			
center of bulb or marker		Lowest	733			
	Sidemarker	Front	656			
		Rear	682			
		Inside	392			
٠	. Headlamp	Outside**	. 575			
Distance from	Taillamp	Inside .	481			
C/L of car to center of bulb		Outside**	579			
\ <u>.</u>	Directional	Front	503			
. ,		Rear	707			
Headlamp shape	<u> </u>					
			4 x 6 1/2" rectangular unit			

^{*} Measured at curb mass (weight).
** If single lamps are used enter here.

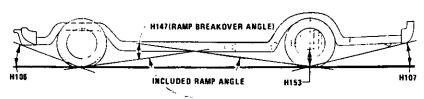
METRIC (U.S. Customary)

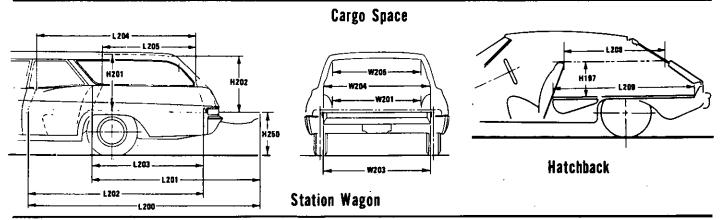
Exterior Car And Body Dimensions — Key Sheet





Exterior Ground Clearance

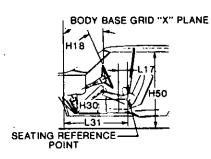


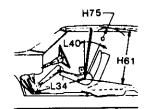


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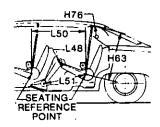
Interior Car And Body Dimensions — Key Sheet

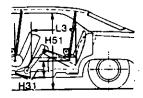
Front Compartment



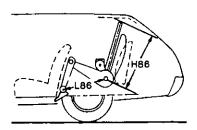


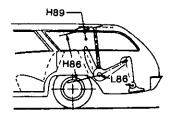
Rear Compartment

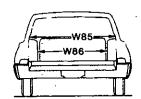




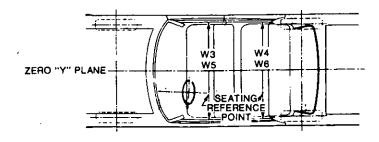
Third Seat







Interior Width



METRIC (U.S. Customary)

Exterior Car 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, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions .

TREAD-FRONT. The dimension measured between W101 the tire centerlines at the ground.

W102 TREAD-REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.

W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

W117 BODY WIDTH AT SgRP-FRONT. The dimension measured laterally between the widest points on the body at the SqRP-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.

VEHICLE WIDTH-REAR DOORS OPEN. The dimen-W121 sion 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.

TUMBLE HOME. STRAIGHT SIDE GLASS. The angle W122 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

FRONT OF DASH "X" COORDINATE. A minus (-) L30 dimension indicates actual front of dash in forward of the zero "X" plane.

WHEELBASE (WB). The dimension measured L101 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

TIRE SIZE. As specified by the manufacturer. L102

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.

OVERHANG-REAR. The dimension measured L105 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.

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

L125 .. COWL POINT, "X" COORDINATE.

Height Dimensions

VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

COWL POINT TO GROUND, Measured at zero "Y" H114

H138 DECK POINT TO GROUND. Measured at zero "Y"

H112 ROCKER PANEL-FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to around.

H132 BOTTOM OF DOOR OPEN-FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, 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.

H134 BOTTOM OF DOOR OPEN-REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.

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

BACKLIGHT SLOPE ANGLE. The angle between the

H121 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 are 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.

H127 HEADLAMP TO GROUND-CURB MASS (WT.). The dimensional measured vertically from the centerline of the lowest headlamp lens to ground.

H128 TAILLAMP TO GROUND-CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.

Ground Clearance Dimensions

FRONT BUMPER TO GROUND. The minimum dimen-H102 sion measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.

METRIC (U.S. Customary)

Interior Car And Body Dimensions - Key Sheet **Dimensions Definitions**

H103	FRONT BUMPER TO GROUND CURB MASS (WT.).
	Measured in the same manner as H104.
H104	REAR BUMPER TO GROUND. The minimum dimen-
	sion measured vertically from the lowest point on the
	rear bumper to ground, including bumper guards, if
	standard equipment.
11405	DEAD DUMBED TO ODOLLUD OUDD MADO (MT)

REAR BUMPER TO GROUND-CURB MASS (WT.). H105 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 are 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 are the initial point of structural interference rearward of the rear tire to ground: The limiting component shall be designated.

H147 REAR 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.

Front Compartment Dimensions

- PASSENGER DISTRIBUTION-FRONT. PD1 L31
- SgRP-FRONT "X" COORDINATED.
 EFFECTIVE HEAD ROOM-FRONT. The dimension H61 measured along a line 8 deg, rear of vertical from the SgRP-front to the headlining plus 102 mm (4.0 in.).
- H75 EFFECTIVE T-POINT HEAD ROOM-FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).
- L34 MAXIMUM EFFECTIVE LEG ROOM-ACCELERA-TOR. 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.
- SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator H30
- L17 DESIGN H-POINT-FRONT TRAVEL. The dimension measured horizontally between the design H-pointfront in the foremost and rearmost seat trace positions.
- W3 SHOULDER ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front within the belt line and 254 mm (10.0 in.) above the SgRP-front.
- HIP ROOM-FRONT. The minimum dimension W5 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 SgRPfront and 76 mm (3.0 in.) fore and aft the SgRP-front.
- UPPER BODY OPENING TO GROUND-FRONT. The H150 dimension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane.

- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- L40 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.

Rear Compartment Dimensions

- PD₂ PASSENGER DISTRIBUTION—SECOND.
- L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP-front to 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.).
- H76 EFFECTIVE T-POINT HEAD ROOM-SECOND. Measured in the same manner as H75
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254 mm (10.0 in.).
- 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.
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).
- L3 COMPARTMENT ROOM-SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.
- SHOULDER ROOM-SECOND. The minimum dimen-W4 sion measured laterally between trimmed surfaces on the "X" plane through the SgRP-second within 254-406 mm (10.0-16.0 in.) above the SgRP-second.
- HIP ROOM—SECOND. Measured in the same manner W6 as W5.
- 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.

Luggage Compartment Dimensions

- V₁ USABLE LUGGAGE CAPACITY-Total of volumes of individual pieces of standard luggage set plus Hboxes 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.

Station Wagon - Third Seat Dimensions

- PD3 PASSENGER DIRECTION - THIRD.
- W85 SHOULDER ROOM-THIRD. Measured in the same manner as W5.
- HIP ROOM- THIRD. Measured in the same manner W86
- EFFECTIVE LEG ROOM-THIRD. The dimension L86 measured along a line from the ankle pivot center to the SaRP-third plus 254 mm (10.0 in.).
- **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.).
- EFFECTIVE T-POINT HEAD ROOM-THIRD. H89 Measured in the same manner as H75.

Interior Car And Body Dimensions — Key Sheet Dimensions Definitions

Dimens	sions Definitions		
Station	Wagon — Cargo Space Dimensions	H201	CARGO HEIGHT. The dimension measured vertically
L200	CARGO LENGTH-OPEN-FRONT. The minimum dimension measured longitudinally from the back of	,	from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane.
	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	H202	REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor cover-
1 201	cargo surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane. CARGO LENGTH—OPEN—SECOND. The dimension	H250	ing to the upper trimmed opening on the zero "Y" plane with rear door fully open. TAILGATE TO GROUND (CURB MASS WT.). The
L201	measured longitudinally from the back of the second seatback at the height of the undepressed floor		dimension measured vertically from the top of the un- depressed floor covering on the lowered tailgate to
	covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.	V2	ground on the zero "Y" plane. STATION WAGON Measured in inches:
L202	CARGO LENGTH—CLOSED—FRONT. The minimum dimension measured horizontally from the back of the		$\frac{W4 \times H201 \times L204}{1728} = ft.3$
•	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		Measured in mm: $\frac{\text{W4 x H201 x L204}}{10^9} = \text{m}^3 \text{(cubic meter)}$
L203	station wagons, trucks and mpv's at the zero "Y" plane. CARGO LENGTH—CLOSED—SECOND. The dimen-	V4	HIDDEN CARGO VOLUME. As specified by the manufacturer.
	sion measured horizontally from the back of the se- cond seat at the height of the undepressed floor covering to the rearmost point on the undepressed	All hato	ack — Cargo Space Dimensions chback cargo dimensions are to be taken with the front full down and rear position, and the rear seat folded
	floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.	down. electric	The hatchback door is in the closed position. (For ally adjusted seats, see the manufacturer's specifica-
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	H197	r Design "H" Point). FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent
	normal surface of the closed tailgate or inside surface of the cab back panel at the height of the belt, on the	1 200	to the top of the seatback to the undepressed floor covering. CARGO LENGTH AT FRONT SEATBACK HEIGHT.
L205	zero "Y" plane. CARGO LENGTH AT BELT—SECOND. The minimum dimension measured horizontally from the back of the	L208	The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seat-
	second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of	L209	back to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane. CARGO LENGTH AT FLOOR—FRONT—
W201	the belt, on the zero "Y" plane. CARGO WIDTH-WHEELHOUSE. The minimum dimension measured laterally between the trimmed		HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seat-back to the normal limiting interference of the
W203	wheelhousings at floor level. For any vehicle not trim- med, measure the sheet metal. REAR OPENING WIDTH AT FLOOR. The minimum	V3	hatchback door on the vehicle zero "Y" plane. HATCHBACK.
	dimension measured laterally between the limiting in- terferences of the rear opening at floor level.		Measured in inches: $\frac{1208 + 1209}{2} \times 4 \times 1197$ = ft.3
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		1728
W205	pick up box. REAR OPENING WIDTH ABOVE BELT. The minimum		Measured in mm: L208 + L209 x W4 x H197
	dimension measured laterally between the limiting in- terferences of the rear opening above the belt height.	•	$\frac{2}{10^9} = m^3 \text{(cubic meter)}$

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