MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1990

Manufacturer	Vehicle Line	
CHRYSLER MOTORS CORPORATION	PLYMOU	JTH SUNDANCE
Mailing Address	7	
DETROIT, MICHIGAN 48288	Issued 9-15-89	Revised

Direct questions concerning these specifications to the manufacturer listed above.

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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.

MVMA Specifications Form METRIC (U.S. Customary)

Tal	ble	of	Ca	nte	ents
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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 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.

Vehicle Line_	PLYMOU	TH SUN	DANCE		
Model Year_	1990	_lssued_	9-15-89	Revised (•)	

METRIC (U.S. Customary)

Vehicle Origin

Design & Development (company)	Chrysler Motors Corporation
Where built (country)	U.S.A.
Authorized U.S. sales marketing representative	Chrysler/Plymouth Division of Chrysler Motors Corporation

Model / Description & Drive FWD/RWD/AWD/4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk Cargo Load - Kilograms (Pounds)
Sundance		,		
2 - Door Hatchback FWD	Sept. 1988	APPH24	5 (2/3)	52 (115)
4 - Door Hatchback FWD		АРРН44	5 (2/3)	52 (115)
FWD				
	:			
		-		

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

 Vehicle Line
 PLYMOUTH SUNDANCE

 Model Year
 1990

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METRIC (U.S. Customary)

Power Teams

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

				A		В		C	D
	Engin	e Code	E	DF	13	ОМ	E	DT	
Ē	Displa Liters	ocement (in ³)	2.2 (135.0)	2.5 (153.0)	2.5 (153.0)	
N G I		tion system arb., etc.)	ТВ	I-EFI		4 -	SMPI	Turbo	
N E	Comp	ression	9.	5:1	8.	9:1	7.	.8:1	
	SAE Net	Power kW (bhp)		(93) 4800		(100) 4800	@	(150) 4800	
	at RPM	Torque N•m (lbft.)		165 (122) @ 3200		(135) 2800		(180) 2000	<u></u>
	Exhau	ust e, dual	sir	ngle		(←	
T R	Trans Trans	mission/ saxle	a 5-sp. man	b 3-sp. auto	a 5-sp. man	b 3-sp. auto	a 5-sp. man	b 3-sp. auto.	
A N S	Axle (std. 1	Ratio First) (a)	2.51:1	3.02:1	2.51:1	3.02:1	2.51:1	3.02:1	

Series Ava	ilability	Power Tear	ms (A-B-C-D)
Model	Code	Standard	Optional
Sundance	APPH21, 41	Aa, Ab	Ba. Bb. Ca. Cb

Vehicle Line PLYMOUTH SUNDANCE

Model Year	1990	issued	9-15-89	Revised (●)	

METRIC (U.S. Customary)

Engine Description Engine Code

2.5L (153.0 in3) EFI, EDM

2.5L (153.0 in³) **SMPI Turbo I, EDT**

ENGINE - GENERAL

flat, location, fro	on (inline, V, angle, ont, mid, rear itudinal, sohc.dohc,	Four cylinder, in-line, SOHC,		
	ge, pre-camber, etc.)	front, transverse		
Manufacturer			hrysler	
No. of cylinders			4	
Bore		87.	.5 (3.44)	
Stroke		104	1.0 (4.09)	
Bore Spacing (C.	/L to C/L)	96	.0 (3.78)	
Cylinder block m	naterial & mass kg (lbs.) (machined)	Cast Iron	40.55 (89.4)	
Cylinder block d	eck height	237	7.8 (9.36)	
Cylinder block le	ength	418	8 (16.46)	
Deck clearance (above or below		0.00	0.1 (0.004) (above)	
Cylinder head m	aterial & mass kg (lbs.)	Aluminum 9.71 (21.4)	Aluminum 10.66 (23.5)	
Cylinder head vo	plume (cm³)	48.9	4 to 51.94	
Cylinder liner ma	aterial	N.A.		
Head gasket thickness (compressed)		1.78 (0.070)		
Minimum combitotal volume (cr		73.815	92.24	
Cyl. no. system	L. Bank	R to L as installed - 1, 2, 3, 4		
(front to rear)*	R. Bank			
Firing order		1,	, 3, 4, 2	
Intake manifold	material & mass [kg (fbs.)]**	Aluminum 2.86 (6.3)	Aluminum 5.67 (12.5)	
Exhaust manifol	ld material & mass (kg (lbs.))**	Cast Iron 6.08 (13.4)	Cast iron 5.17 (11.4)	
Fuel required, unleaded, diesel, etc.		Regular unleaded	Premium unleaded	
Fuel antiknock index (R + M) ÷ 2		87 octane or higher	recommend 91 or higher accept 87 or higher	
Number		3		
Engine mounts	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.	Natura	al Rubber	
	Added isolation (sub-frame, crossmember, etc.)	N	lone	
Total dressed en	ngine mass (wt) dry***	153.18 (337.0)	161.36 (355.0)	

Engine - Pistons

والراب المناف المتناف والمناف		
Material & mass, q	Aluminum	Aluminum
(weight, oz.) - piston only	322 (11.4)	367 (13.0)_

Engine - Camshaft

Location		Overhead
Material & mass kg (weight, lbs.)		Post-hardened nodular iron
		2.68 (5.9)
Drive type	Chain/belt	Belt
	Width/pitch	23.8/9.52 (0.937/0.375)

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: starter, alternator, manifolds, water pump, engine mounted emissions controls, power steering pump, drive belts, oil filter, right engine mount, and throttle controls as required.

METRIC (U.S. Customary)

/ehicle Line	PLYMOU	TH S	UNDANCE

9-15-89 1990 Revised (*) Model Year

Engine Description

Engine Code

2.2L (135.0 in³) EFI, EDF

ENGINE - GENERAL

lat, location, fro transverse, longi	on (inline, V, angle, ent, mid, rear tudinal, sohc,dohc, e, pre-camber, etc.)	Four cylinder, in-line, SOHC, canted, front, transverse	
Manufacturer		Chrysler	
No. of cylinders		4	
Bore		87.5 (3.44)	
stroke		92.0 (3.62)	
Bore Spacing (C/	'L to C/L)	96.0 (3.78)	
Cylinder block m	aterial & mass kg (lbs.) (machined)	Cast Iron 44.23 (97.5)	
Sylinder block de	eck height	237.8 (9.36)	
ylinder block le	ngth	418 (16.46)	
Deck clearance ((above or below		0.00	
Cylinder head m	aterial & mass kg (lbs.)	Aluminum 9.71 (21.4)	
Cylinder head vo		48.5 to 51.5	
ylinder liner ma		N.A.	
Head gasket this (compressed)		1.78 (.070)	
Minimum combi		65.31	
Cyl. no. system	L. Sank	R to L as installed - 1, 2, 3, 4	
front to rear)*	R. Bank		
Firing order		1, 3, 4, 2	
ntake manifold	material & mass [kg (lbs.)]**	Aluminum 2.86 (6.3)	
	ld material & mass [kg (lbs.)]**	Cast Iron 6.08 (13.4)	
	nleaded, diesel, etc.	Unleaded regular	
Fuel antiknock i	ndex (R + M) + 2	87 or higher	
	Number	3	
Engine mounts	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.	Natural Rubber	
	Added isolation (sub-frame, crossmember, etc.)	None	
Total dressed er	ngine mass (wt) dry***	142.26 (313.0)	
Engine - Pisto			
Material & mass		Aluminum	
(weight, oz.) - p		445 (15.7)	

Engine - Ca	msnart	
Location		Overhead
	ss kg (weight, lbs.)	Post-hardened nodular iron 2.68 (5.9)
Drive type	Chain/belt	Belt
Drive type	Width/pitch	23.8/9.52 (0.937/0.375)

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: starter, alternator, manifolds, water pump, engine mounted emissions controls, power steering pump, drive belts, oil filter, right engine mount, and throttle controls as required.

Vehicle Line PLYMOUTH SUNDANCE

Model Year	1990	Issued	9-15-89	Revised (●)	
				_	

METRIC (U.S. Customary)

Engine Description Engine Code

2.5L (153.0 in³) SMPI, Turbo, EDT 2.5L (153.0in3) EFI, EDM

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Std.
Valves	Number intake/exhaust	4/4
	Head O.D. intake/exhaust	40.6 / 35.4 (1.60 / 1.39)

Engine - Connecting Rods

engine connecting toos	
Material & Mass [kg., (weight lbs.)]*	Forged steel 0.68 (1.5)
Ø Length (axes ∉ to ∉) mm	151 (5.94)

Engine - Crankshaft

Material & Mass [kg., (weight lbs.)]*	High-hardness ductile iron 16.10 (35.4)	Nodular iron 16.04 (35.3)		
End thrust taken by bearing (no.)	Three			
Length & number of main bearings	487.1 (19.2	?) / Five		
ieal (material, one, Front	Polyacrylic / C	One piece		
two piece design, etc.) Rear	Fluorocarbon /	One piece		

Engine - Lubrication System

Engine - Lubrication System		
Normal oil pressure [kPa (psi) at eng. rpm]	172-552(25-80) @ 3000 rpm(a)	
Type of 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)	

Engine - Diesel Information

Diesel engine	manufacturer	
Glow plug, cu	rrent drain at 0° F	
Injector	Туре	
nozzle	Opening pres.(kPa (psi))	
Pre-chamber	design	
Fuel inj.	Manufacturer	
pump	Туре	
Fuel inj. pum	p drive (belt, chain, gear)	
Supplementa	ry vacuum source (type)	
Fuel heater ()	yes/no) .	
Water separa (std., opt.)	itor description	
Turbo manuf	acturer	
Oil cooler typ	e (oil to engine coolant; rt air)	
Oil filter		

Engine - Intake System	
Turbo charger - Manufacturer	
Super charger - manufacturer	
Intercooler	

^{*} Finished State

⁽a) Fully warmed

MVMA Sc	ecifications	Vehicle Line Pl	Vehicle Line PLYMOUTH SUNDANCE				
		Model Year	1990	Issued	9-15-89	Revised (●)	
METRIC (U.S.	Customary)						
Engine Description	on			2.2L (1	35.0in³)		1
Engine Code		EFI, EDF					
Engine - Valv	e Svstem				·· ··.		
Hydraulic lifters				St	td.		
Valves	Number intake/exhaust			4	/4		
	Head O.D. intake/exhaust		4	0.6 / 35.4	(1.60/1.39)		
Con-	nation Rade						
Engine - Conr			Fr	roed stee	1 0.65 (1.43	1	
Ø Length (axes	[kg., (weight lbs.)]*		- ' '		(5.94)	<u>/</u>	
Engine - Cran	kshaft						
Material & Mass	[kg., (weight lbs.)]*		No		n 15.10 (33.	2)	
End thrust taken	by bearing (no.)				ree		
Length & numbe	r of main bearings				19.2)/5		
Seal (material, o	ne, Front				:/One piec		
two piece design	n, etc.) Rear	·	Flu	orocarbo	n/One pie	ce	
Engine - Lubr	ication System						
	ure [kPa (psi) at eng. rpm]		72 - 552	(25-80) @	3000/Fully	warmed	
	floating, stationary)		Stationary				
	(full flow, part, other)			Full	flow		
	e, less filter-refill-L (qt.)			3.8	8 (4)		
	el Information				· · · ·		_
Diesel engine m					 -		_
Glow plug, curre	nt drain at 0° F				·		
Injector	Туре				 		
nozzle	Opening pres.(kPa (psi))						
Pre-chamber de							
Fuel inj.	Manufacturer					/	
pump	Туре						
	rive (belt, chain, gear)				<u> </u>		
	vacuum source (type)			/	<u> </u>		
Fuel heater (yes							
Water separato	r description						
(std., opt.)							
Turbo manufact					· · · · · · · · · · · · · · · · · · ·	 	
	oil to engine coolant;						
oil to ambient a	ir)	_/					
Oil filter							
Engine - Inta	ke System						
Turbo charger -							
Super charger -							

Intercooler
* Finished State

METRIC (U.S. Customary)

PLYMOUTH SUNDANCE Vehicle Line __ Model Year 1990 Issued 9-15-89 Revised (•)

2.5 L (153.0 IN.3) EFI, EDM

2.5L(153.0 in³) SMPI Turbo EDT

Engine Description Engine Code

2.2 L (135.0 IN.3) EFI, EDF

	Cooling System		* *	dand.	
	overy system (std., opt., n.a.)			dard	
	location (rad, bottle)			ttle	
	p relief valve pressure [kPa (psi)]			(14-18)	
	Type (choke, bypass)			et Operated	
thermostat	Starts to open at °C (°F)			(195)	
	Type (centifugal, other)		Centr	ifugal	
	GPM 1000 pump rpm		···		
	Number of pumps		_	ne	
Water	Drive (V-belt, other)		Multi-Groove Belt		
pump	Bearing type	Integral Ball Bearing			
	Impeller material		Steel		
	Housing material			uminum	
8y-pass reci	rculation [type (inter., ext.)]			ies with heater	
Cooling	With heater - L(qt.)			(9.0)	
system	With air cond L(qt.)		8.5	(9.0)	
capacity	Opt. equipment (specify - L(qt.))			••	
Water jack	ets full length of cyl. (yes, no)		Y	'es	
Water all a	round cylinder (yes, no)			10	
Water jack	ets open at head face (yes, no)			lo	
	Std. A/C, HD	standard	A/C	All	
	Type (cross-flow, etc.)		Cross	s Flow	
	Construction (fin & tube	Tube & fin mech.			
Radiator	mechanical, braze, etc.)	2-row (b)		r, Soldered, 1 Row	
core	Material, mass [kg (wgt.lbs.)] (a)	aluminum (c)	Copper/Brass	4.12(9.1) Man. / 4.55(10.0) Auto.	
	Width		533	3(21)	
	Height	377.5(14.86) ^(d)		387.6(15.26)	
	Thickness	34(1.34) (e)			
				17.8(0.7)	
	Fins per inch	14.5 ^(f)	- -	17.8(0.7) 18 Man. / 19Auto.	
Radiator er	Fins per inch		Nyle		
Radiator er	nd tank material			18 Man. / 19Auto.	
Radiator er	nd tank material Std., elec., opt.			18 Man. / 19Auto. on 66	
Radiator er	od tank material Std., elec., opt. Number of blades & type	14.5 ^(f)	Ele	18 Man. / 19Auto. on 66	
Radiator er	Std., elec., opt. Number of blades & type (flex, solid, material)	14.5 (f) 2-Blade metal	5-Blade plastic	18 Man. / 19Auto. on 66 ctric	
Radiator er	Std., elec., opt. Number of blades & type (flex, solid, material) Diameter & projected width	14.5 ^(f) 2-Blade	Ele 5-Blade	18 Man. / 19Auto. on 66 ctric 5-blade plastic	
ī	Std., elec., opt. Number of blades & type (flex, solid, material) Diameter & projected width Ratio (fan to crankshaft rev.)	14.5 (f) 2-Blade metal	Ele 5-Blade plastic 367(14.4)/35(1.4)	18 Man. / 19Auto. on 66 ctric 5-blade plastic	
Radiator er	Std., elec., opt. Number of blades & type (flex, solid, material) Diameter & projected width Ratio (fan to crankshaft rev.) Fan cutout type	14.5 (f) 2-Blade metal	Ele 5-Blade plastic 367(14.4)/35(1.4)	18 Man. / 19Auto. on 66 ctric 5-blade plastic 367 (14.5) / 42(1.65)	
ŗ	Std., elec., opt. Number of blades & type (flex, solid, material) Diameter & projected width Ratio (fan to crankshaft rev.) Fan cutout type Drive type (direct, remote)	2-Blade metal 360(14.2) / 46(1.8)	5-Blade plastic 367(14.4)/35(1.4)	18 Man. / 19Auto. on 66 ctric 5-blade plastic 367 (14.5) / 42(1.65)	
ŗ	Std., elec., opt. Number of blades & type (flex, solid, material) Diameter & projected width Ratio (fan to crankshaft rev.) Fan cutout type Drive type (direct, remote) RPM at idle (elec.)	14.5 (f) 2-Blade metal	Ele 5-Blade plastic 367(14.4) / 35(1.4) Electri	18 Man. / 19 Auto. on 66 ctric 5-blade plastic 367 (14.5) / 42(1.65)	
ī	Std., elec., opt. Number of blades & type (flex, solid, material) Diameter & projected width Ratio (fan to crankshaft rev.) Fan cutout type Drive type (direct, remote) RPM at idle (elec.) Motor rating (wattage) (elec.)	14.5 (f) 2-Blade metal 360(14.2) / 46(1.8)	Ele 5-Blade plastic 367(14.4)/35(1.4) Electri 1800 130	18 Man. / 19Auto. on 66 ctric 5-blade plastic 367 (14.5) / 42(1.65) c Motor 2150 150	
ī	Std., elec., opt. Number of blades & type (flex, solid, material) Diameter & projected width Ratio (fan to crankshaft rev.) Fan cutout type Drive type (direct, remote) RPM at idle (elec.) Motor rating (wattage) (elec.) Motor switch (type & location) (elec.)	14.5 (f) 2-Blade metal 360(14.2) / 46(1.8) 1150 50	Ele 5-Blade plastic 367(14.4)/35(1.4) Electri 1800 130 Thermistor, Wat	18 Man. / 19Auto. on 66 ctric 5-blade plastic 367 (14.5) / 42(1.65) c Motor 2150 150 er Box & AC clutch	
ŗ	Std., elec., opt. Number of blades & type (flex, solid, material) Diameter & projected width Ratio (fan to crankshaft rev.) Fan cutout type Drive type (direct, remote) RPM at idle (elec.) Motor rating (wattage) (elec.) Motor switch (type & location) (elec.)	14.5 (f) 2-Blade metal 360(14.2) / 46(1.8) 1150 50	Ele 5-Blade plastic 367(14.4)/35(1.4) Electri 1800 130 Thermistor, Wat	18 Man. / 19Auto. on 66 ctric 5-blade plastic 367 (14.5) / 42(1.65) c Motor 2150 150	

⁽a) Mass (weight) shown is for assembly as purchased.
(b) Optional radiator: Tube & Fin Spacer, Soldered, 1 Row
(c) 3.13(6.9) Man.: 3.55(7.8) Auto.; Optional radiator: copper-brass, 4.2 (9.3)
(d) Optional radiator: 387.6 (15.26)
(e) Optional radiator: 17.8 (0.7)
(f) Optional radiator: 13

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1990 Issued 9-15-89 Revised (*)

METRIC (U.S. Customary)

Engine Description Engine Code 2.5L (153.0 in³) TBI-EFI, EDM 2.2L (135.0 in³) TBI-EFI, EDF 2.5L (153.0in³) SMPl Turbo, EDT

Induction type:	carburetor, fuel					
injection system	n, etc.	Fuel injection (b)				
Manufacturer		Holley/Bosch (b)				
Carburetor no.	of barrels	N.A				
dle A/F mix.		N.A.				
	Point of injection (no.)	Throttle body (1)	Intake ports (4)			
Fuel [Constant, pulse, flow	Pulse				
njection [Control (electronic, mech.)	Electronic				
[System pressure [kPa (psi)]	100 (14.5)	379.6 (55.1)			
dle spdrpm	Manual	850	950			
(spec. neutral						
or drive and	Automatic	850 / Neutral	900 / Neutrai			
propane if						
used)						
ntake manifol	d heat control (exhaust		1			
or water thermostatic or fixed)		Water, fixed None				
Air cleaner type		Oil wetted paper ele	ment			
Fuel filter (type/location)		Paper element; Stainless steel canister; Inline underbody				
Type (elec. or mech.)		Electric				
Fuel	Location (eng., tank)	in fuel tank				
pump	Pressure range (kPa (psi))	N.A.				
1	Flow rate at regulated pressure					
	(L (gal) / hr @ kPa (psi))	81-161 (21-42) @ 12V & 15psi	92-180 (24-48) @ 12V & 55ps			
Fuel Tank		53 (14)				
Capacity refill		Forward of axle				
Location (desc	ribė)	Galvanized or terne plated steel strap to floor pan				
Attachment		Tarne plated steel 10 20	(22 5) (a)			
	ss [kg (weight lbs.)]	Terne plated steel 10.20 (22.5) ^(a) Right rear quarter panel, lead dipped steel tube				
Filler	Location & material					
pipe	Connection to tank	Rubber grommet				
Fuel line (mate		Duplex coated steel				
Fuel hose (mat		Fuel resistant rubber				
Return line (m		Duplex coated steel				
Vapor line (marterial)		Duplex coated steel				

Opt., n.a.

Attachment Opt., n.a.

Attachment

Separate fill

Capacity (L (gallons))

Location & material

Capacity (L (gallons))
Location & material

Selector switch or valve

Extended

Auxiliary

tank

range

tank

⁽a) includes tank-mounted fuel pump

⁽b) Holly/Bosch/Seimens Bendix/McGuane

METRIC (U.S. Customary)

Vehicle Line	PLYMOUT	H SUNDA	NCE		
	1000		0 1E 90	Dames - (a)	-

Vehicle Line PL	HIUUNIT	20MDV	NCE		_
Model Year	1990	Issued	9-15-89	Revised (•)	

Engine Description	2.2L (135.0in³) TBI-EFI, EDF					
Engine Code	49 states, man.	49 states, auto.	Cal., manual	Cal, automatic		
	<u> </u>					

	Type (air in	jection, engin	•	exhaust gas recir	culation, engine modifica	tions, catalytic converte	
	modification	ons, other)		aspirator			
	Pump or pulse Driven by		pulse		N.A.		
				exhaust pressure		N.A.	
	Air injection	Air distributio	ก				
	injection	(head, manifo	ild, etc.)	fixed		N.A.	
		Point of entry		catalytic converter		N.A	
		Type (control	ed flow,	e)	haust back pressure-conti	rolled flow	
	Exhaust	open orifice, o	other)				
mission F	Gas	Exhaust source	е		exhaust manifold	<u> </u>	
	Recirc- ulation	Point of exha- (spacer, carbu- manifold, oth	retor,		intake manifold		
	<u> </u>			3-way + oxidation	THE CONTROL OF THE CO	3-way	
	1	Type Number of	<u> </u>	J-Way + Oxidation	one	<u> </u>	
	Catalytic Converter	Location(s)			below exhaust mani	fold	
		LOCATION(S)		Delow exhaust mannoid			
		Volume (L(in.	3)]	1.23 + 0.74 (75 + 45) 1.23 + 0.9 (75 + 55)			
		Substrate typ	ė	monolithic			
		Noble metal t	ype	Pt:Rh + Pd (a)		um:Rhodium	
		Noble metal		0.00061:0.00009	0.00061:0.00009+	0.00061:0.00018	
		concentration	1 (g/cm³)	+ 0.00085	0.00061:0.00007		
	Type (vent	ype (ventilates to atmosphere,		closed induction system			
	induction:	system, other)					
Crankcase	Energy sou	rce (manifold			manifold vacuum		
Emission		arburetor, oth	er)				
Control	Discharge	(to intake	-	1	intake manifold		
	maifold, o	ther)					
	Air inlet (b	reather cap, o	ther)	air cleaner			
vapora-	Vapor ven	ted to (crank-	Fuel tank		canister		
tive emis-		ter, other)	Carburetor				
sion contro	Vapor stor	age provision			canister		
Electronic	Closed loo			yes - hot engine			
system	Open loop (yes/no)		<u> </u>	yes - cold engine			
	Eubanet S	vetom					
	Exhaust S			<u> </u>	single	 	
	-	cross-over,			an Igie		
dual, other		erse flow, strai	oht theu	 	tri-flow	<u> </u>	
	•		gnt thru, kg. (weight lbs.)]	stainless		tail-pipe below	
separate re	Sunatur) IVIa	reusi a mg22 (kg. (weight ibs.))	stainless steel 5.51 (12.1) - includes tail-pipe below			

none Resonator no. & type N.A Branch o. d., wall thickness Exhaust $50.8 \times 1.4 (2.00 \times 0.055)$ pipe Main o. d. ,wall thickness 5.70 (12.6) (b) 5.83 (12.8) (b) 5.70 (12.6) (b) 6.11 (13.5) (b) Material & mass [kg. (weight lbs.)] $47.8 \times 1.2 (1.88 \times 0.047)$ o.d., & wall thickness Intermedstainless steel 2.62 (5.8) iate pipe Material & mass [kg. (weight lbs.)] $47.8 \times 1.1 (1.88 \times 0.043)$ o.d., & wall thickness Tail stainless steel (see muffler assembly) Material & mass [kg. (weight lbs.)]

(a) Pt = platinum; Rh = rhodium; Pd = palladium (b) stainless steel (includes catalytic converter)

Vehicle Line PLYMOUTH SUNDANCE

AGUICIE CITIE	FET IN OUT	N JUNDA	11402		
Model Year	1990	Issued	9-15-89	Revised (•)	

METRIC (U.S. Customary)

Engine	Description
Engine	Code

						
2.5L (153.0in³) TBI-EFI, EDM						
49 states, man.	49 states, auto.	Cal., manual	Cal., automatic			
		-	1			

Vehicle Emission Control

	Type (air in	jection, engine	•	exhaust gas recircula	tion, engine modifications, cat	alytic converter		
	modification	ons, other)		aspirator				
		Pump or pulse		pulse	N.A.			
		Driven by		exhaust pressure	N.A.			
	Air	Air distributio	n					
	Air injection	(head, manifo	ld, etc.)	fixed	N.A.			
		Point of entry		catalytic converter	N.A.			
		Type (controll	ed flow,	exhau	st back pressure-controlled flo	W		
	Exhaust	open orifice, o		<u> </u>				
Emission	Gas	Exhaust source	e		exhaust manifold branch			
	Recirc- ulation	Point of exhau (spacer, carbu manifold, oth	retor,		intake manifold plenum			
		Туре		3-way + oxidation	3-way			
	Catalytic	Number of		one				
				below exhaust manifold				
		Volume [L(in.3)]		1.23 + 0.74 (75 + 45) 1.23 + 0.9 (75 + 55)				
		Substrate type		monolithic				
		Noble metal t	ype	Pt:Rh + Pd (a)	Platinum: Rhod			
		Noble metal		0.00061:0.00009	0.00061:0.00009 +	0.00061:0.00018		
		concentration	(g/cm³)	+ 0.00085	0.00061:0.00007			
	Type (ventilates to atmosphere, induction system, other)			closed induction system				
Crankcase		rce (manifold		manifold vacuum				
Emission	vacuum, ca	erburetor, othe	er)					
Control	Discharges maifold, o	(to intake		intake manifold				
		reather cap, ot	her)	air cleaner				
		ted to (crank-	Fuel tank	† · · · · · · · · · · · · · · · · · · ·	canister			
Evapora- tive emis-		ter, other)	Carburetor	 		<u> </u>		
sion control		age provision		canister				
Electronic	Closed loo	 		yes - hot engine				
system	Open loop (yes/no)			yes - cold engine				

Engine - Exhaust System

Type (single, single with cross-over,		single				
dual, other)					
Muffler no.	. & type (reverse flow, straight thru,	.	one, rever	se flow		
separate re	esonator) Material & mass (kg. (weight (bs.))	stainles	is steel 4.94 (10.9) - i	ncludes tail-pipe be	low	
Resonator		none				
Exhaust	Branch o. d., wall thickness	N.A.				
pipe	Main o. d. ,wall thickness	50.8 × 1.4 (2.00 × 0.055)				
	Material & mass [kg. (weight ibs.)]	5.70 (12.6) (b)	6.11 (13.5) (b)	5.70 (12.6) ^(b)	5.83 (12.8) ^(b)	
Intermed-	o. d., & wall thickness		47.8 × 1.2 (1.8	8 × 0.047)		
iate pipe	Material & mass [kg. (weight lbs.)]	stainless steel 2.62 (5.8)				
Tail	o.d., & wall thickness	47.8 × 1.1 (1.88 × 0.043)				
pipe	Material & mass [kg. (weight lbs.)]	stainless steel (see muffler assembly)				

⁽a) Pt = Platinum; Rh = Rhodium; Pd = Palladium (b) stainless steel (Includes catalytic converter)

METRIC (U.S. Customary)

Vehicle Line_PL	YMOUTH:	SUNDA	NCE	<u></u>
Model Yea <u>r</u>	1990	issue <u>d</u>	9-15-89	Revised (•)

	251/4520:-3	N. T. L. FOT		
Engine Description	2.5 L (153.0 in ³) Turbo, EDT			
Engine Code	49 States	California		

Engine Code	ne Code			49 States	California	
Vehicle Er	nission Co	entrol				
vernicle Er	Type (air in	jection, engin	ė	engine modifications, catalytic converter	engine mod's, catalytic converter, exhaust gas recirculation	
	modifications, other)			- :::	none	
	Pump or pulse Driven by				N.A.	
	A i.e.	Air distribut	tion	· · · · · · · · · · · · · · · · · · ·		
	Air injection	(head, man	1		N.A.	
		Point of ent			N.A.	
		Type (contr		····	exhaust back pressure	
	Exhaust	open orifice		none	controlled flow	
xhaust	Gas	Exhaust sou	irce	N.A	turbine housing outlet, above flang	
mission Control	Recirc- ulation	Point of ext (spacer, car manifold, o		N.A.	intake manifold	
		Туре	-		-way	
	Catalytic	Number of			one	
	Converter	tie		und	er floor	
		Volume {L(in.3)}		1.80 (110)		
		Substrate type		monolithic		
		Noble metal type		Platinum:Rhodium		
j		Noble metal				
	concentrati		ion (g/cm³)	0.00061:0.00011	0.00061:0.00018	
	Type (ventilates to atmosphere, induction system, other) Energy source (manifold vacuum, carburetor, other)			closed induction system		
Crankcase Emission				intake manifold vacuum		
Control	Discharges					
	maifold, ot	ther)		intake manifold		
	Air inlet (b	reather cap, o	ther)	air	cleaner	
Evapora-	Vapor vent	ed to (crank-	Fuel tank	canister		
ive emis-	case, canist	ter, other)	Carburetor	N.A.		
ion control	1 a p o : 3 t o :	age provision			nister	
Electronic	Closed loop	_			ot engine	
system	Open loop	(yes/no)		yes - cold engine		
	xhaust Sy					
Type (single dual, other)	, single with	cross-over,			ingle	
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & mass [kg. (weight lbs.)]			ight thru,	one, reverse flow		
			[kg. (weight lbs.)]	409 stainless s	iteel 6.58 (14.5)	
Resonator n	o. & type				one	
Exhaust	Branch o. d., wall thickness		ess		I.A.	
pipe		wall thicknes		· - · · · · · · · · · · · - · - · - · - · · - · - ·	(2.5 × 0.055)	
		mass (kg. (we	eight (bs.)]		steel 1.96 (4.3)	
intermed-	o. d., & wa				(2.25 × 0.055)	
ate pipe		mass [kg. (we	right (bs.)]		(includes catalytic converter)	
Tail		l thickness			1 (2.0 × 0.043)	
pipe	Material & mass [kg. (weight lbs.)]		eight lbs.)]	stainless steel (see muffler assembly)		

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

Manual 3-speed (manufacturer/country)

Manual 4-speed (manufacturer/country)

Type recommended

METRIC (U.S. Customary)

Vehicle Line	PLYMOUT	'H SUNDANCE	
Model Year	1990	Issued 9-15-89	Revised(•)

N.A

N.A.

Engine Description Engine Code

2.5 L (153.0 in3) / EFI, EDM 2.2 L (135.0 in³) / EFI, EDF 2.5L (153.0 in3) / TURBO I, SMPI **EDT**

Manual 5-si	peed manufacturer/country)	Std./Chrysler New Process Gear/U.S.
•	(manufacturer/country)	Opt./Chrysler/U.S.
Automatic overdrive (manufacturer/country)		N,A.
Manual 1	Transmission/Transaxle	
	forward speeds	5
	1st	3.29
	2nd	2.08
	3rd	1.45
Gear	4th	1.04
ratios	5th	0.72
iatios	Reverse	3.14
Synchrono	us meshing (specify gears)	All Forward Gears
Shift lever		Floor
Trans. case mat'l. & mass kg.(lbs.)*		46.36 (102.0) 380 Aluminum Die Cast
Lubricant	Capacity [L (pt.)]	2.1 (4.3)
LUCITORIL	Type recommended	API SF/CC SAE 5W-30

Clutch ma	nufacturer		Fichtel & Sachs	
Clutch typ	e (dry, wet; singl	e,multiple disc)	Dry Disc, single	
	ydraulic,cable,ro		Cab	
	i effort (nom.	Depressed**	100 (23)	116 (26)
	d, new) N (lbs.)	Released***	112 (25)	125 (28)
	ing, power/perce	nt, nominal)	Nor	
	sure plate springs		Bellev	
	ng load (nominal,		4700 (1057) 5750 (1292)	
	Facing mfgr. & material coding		Valeo F-202	
	Facing material & construction		Fiberglass, Woven	
	Rivets per facing		8	
	Outside x inside dia. (nominal)		228 x 150 (8.98 x 5.91)	
	Total eff. area (cm² (in²))**** Thickness (pressure plate side/ fly wheel side) Rivet depth (pressure plate side/ fly wheel side)		463.13	(71.8)
Clutch facing			3.4/3.4 (0.	13/0.13)
-			1.1/1.1 (0.043	
	Engagement	cushion method	Wave spring segments	
Release b	earing type & me	ethod lub.	Angular contact ball bearing pe	ermanently lubed with grease
		d, springs, hysteresis	Coil springs and fric	tion fiber washers

^{*} Dry weight, includes shift linkage

^{**} Hold down effort

^{***} Maximum effort at clutch release point of travel.

^{****} Includes both clutch facings.

METRIC (U.S. Customary)

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1990 Issued 9-15-89 Revised (●)

Engine Description
Engine Code

2.5L (153.0 in.3) SMPI Turbo EDT 2.5L (153.0 in.3) EFI, EDM 2.2 L (153.0 in³), EFI, EDF

rade name		Torqu	ueflite
		Automatically-operated pl	lanetary gear transmission
Type and spe	ecial features (describe)	and parallel a	axis final drive
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Non-lock up torque converter	electronic lock up torque converte
Gear	Location (column, floor, other)		oor
elector	Ltr./No. designation (e.g. PRND21)	PRN	ND21
	Shift interlock (yes, no, describe)	N	No
	1st	2.	.69
Gear	2nd	_1.	.55
ratios	3rd	1.	.00
	4th		••
	Reverse	2.	.10
Max. upshift	t speed - drive range [km/h (mph)]	129 (80)	113 (70)
Max. kickdown speed - drive range [km/h (mph)]		119 (74)	105 (65)
Min, overdr	ive speed [km/h (mph)]	N-Marin	••
	Number of elements	Th	nree
Torque	Max. ratio at stall	2.00	2.15
converter	Type of cooling (air, liquid)	Lic	quid
	Nominal diameter	241	(9.5)
	Capacity factor "K"	260	210
Lubricant	Capacity [refill L (pt.)]	8.40 (17.75) - torque converter,	, transmission and differential
	Type recommended	Mopar ATF Plus (Auto tra	ans. fluid - Type 7176) (a)
Oil cooler (s	td.opt.n.a.,internal,external,air,liquid)	Std liquid, in radiator	
	in case material & mass (kg. (lbs.))**	Die cast aluminum - 57.50 (126.5) (b)	
Ø All Wh	neel / 4 Wheel Drive		
Description	& type (part-time, full-time, 2/4 shift		
	ng, mechanical, elect., chain/gear, etc.)	·	
Transfer	Manufacturer and model		
case	Type and location		
Low - range	e gear ratio		
System disc	onnect (describe)		
Center	Type (bevel, planetary, w or w/o		
		The second secon	

^{*} Input speed + √ torque

Torque split (% front/rear)

differential viscous bias, torsen, etc.)

^{**} Dry weight including torque converter. If other specify.

⁽a) Dexron II ATF may be used, only if Mopar ATF is not available.

⁽b) Dry weight, includes shift linkage

Vehicle Line	PLYMO	UTH SU	NDANCE
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A 6 UTCLE FILLE	L L I WIOO (LI DOMEDIA			
Model Year	1990	Issued	9-15-89	Revised (●)	

METRIC (U.S. Customary)

Engine Description
Engine Code

2.2L (135.0 in³) EFI,EDF 2.5L (153.0 in³) EFI, EDM

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

Effective	final drive ra	atio (or overall top gear ratio)	2.51 (manual)	3.02 (auto.)	2.51 (manual)	3.02 (auto.)
Transfer	ratio and me	ethod (chain, gear, etc.)	1.06, gear		1.06, gear	
Front	Ring gea		197.46 (7.77)	184.5 (7.26)	197.46 (7.77)	184.5 (7.26)
drive	No. of	Pinion	14	21	14	21
unit	teeth	Ring gear	49	60	49	60

Ø Front Drive Unit

Description (integral to trans., etc.)		Integral with transmission	
Limited slip di	fferential (type)	N.A.	
Drive pinion	Туре	Helical	
	Offset	**	
No. of differe	o. of differential pinions		
Pinion / differ		-	
	Bearing adjustment	Shim	
Driving wheel	bearing (type)	See Wheel Spindle Hub, p. 14	
	Capacity[L (pt.)]	See transaxle	
	Type recommended	See transaxle	
			
 			

Ø Axle Shafts - Front Wheel Drive

Vlanufacture	r and nur	nber used			Two
ype (straigh	t, solid ba	r, tubular, etc.)	Left		Solid bar
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Right		Tube
Outer	Manual transaxle		Left	(a) Page 10B	(b) Page 10B
diam.x			Right	(c) Page 10B	(d) Page 10B
<u> </u>	Automat	ic transaxle	Left	(a) Page 10B	(b) Page 108
wall		•	Right	(c) Page 10B	(d) Page 10B
thickness	Optional	transaxle	Left		••
			Right		**
	Туре				v 5
Slip				······································	
yoke	Number of teeth		-		
	Spline o.d.		**		
	Make and mfg. no.		Inner	(e) Page 10B	GKN-EUR: GI82 or SSG: #19
1			Outer	(f) Page 10B	GKN-EUR: 98 LAC or SSG: #23
<u> </u>	Number used				Two
Universal	Type, size	e, plunge	Inner	Tripod plunge	
oints	Outer		Outer	Ra	reppa - fixed
	Attach (L	ı-bolt, clamp, etc.)			
		Type (plain,			
	Bearing	anti-friction)			
		Lubrication			
	(fitting, prepack)		Prepack		
Drive taken t	hrough (torque tube,			
arms or sprin			<u> </u>		••
Torque taker	n through	(torque tube,			
arms or sprin	qs)				**

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

Vehicle Line PLYMOUTH SUNDANCE

A SILICIS CHIE	<u>, e i imoo ii</u>		1465		_
Model Year	1990	Issued	9-15-89	Revised (*)	

METRIC (U.S. Customary)

Engine Description
Engine Code

2.5L (153.0 in ³)	
Turbo I, EDT	

Effective	Ratio and	atio (or overall top gear ratio)	2.51 (manual)	3.02 (auto.)	
		ethod (chain, gear, etc.)	**	1.06, gear	
Front			197.46 (7.77)	184.5 (7.26)	
drive	No. of	Pinion	14	21	
unit	teeth	Ring gear	49	60	

Description (integral to trans., etc.)		Integral with transmission		
imited slip	differential (type)	N.A.		
Drive pinion		Helical		
•	Offset	**		
No. of differential pinions		Two		
inion / diffe				
	Bearing adjustment	Shim		
Driving whe	el bearing (type)	See Wheel Spindle Hub, p.14		
ubricant	Capacity(L (pt.))	See transaxle		
	Type recommended	See transaxle		

Manufacturer and number used				Two				
ype (straig)	ht, solid ba	r, tubular, etc.)	Left	Solid bar				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Right	Solid bar	Tube			
Outer	Manuai transaxle		Left	(g) page 108				
iam.x			Right	(g) page 10B				
ength*x	Automat	ic transaxie	Left	••	(g) page 10B			
vall			Right	<u> </u>	(h) page 10B			
hickness	Optional	transaxie	Left	•	•			
			Right	•	-			
Slip	Туре			•	-			
yoke	Number of teeth			••				
	Spline o.d.			•				
	Make and mfg. no. Inner Outer		Inner	GKN-EUR: G182 or SSG: #19				
			Outer	GKN-EUR: 98 LAC or SSG: #23				
	Number used			Tv	NO			
Jniversal	Type, size, plunge Inner		Inner	Tripod plunge				
oints		., •	Outer	Rzeppa - fixed				
1	Attach (u-bolt, clamp, etc.)							
İ		Type (plain,						
	Bearing	anti-friction)						
	Lubrication			Prepack				
	(fitting, prepack)			Pre	yack			
	_	torque tube,	ļ					
arms or spri			- 1	•	••			

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

arms or springs)

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1990 Issued 9-15-89 Revised (●)

METRIC (U.S. Customary)

(a) GKN-US: 24.2×333.2 (0.95 \times 13.12) or SSG: 23.9×327.5 (0.94 \times 12.89) or GKN-EUR: 22.9×334.5 (0.90 \times 13.17)

(b) GKN-EUR: 22.9 \times 331.4 (0.90 \times 13.05) or SSG: 23.9 \times 327.5 (0.94 \times 12.98) or GKN-EUR: 22.9 \times 325.9 (0.94 \times 12.83)

(c) GKN-US: $40.5 \times 603.3 \times 3.72$ (1.59 $\times 23.75 \times 0.146$) or SSG: $38.0 \times 591.1 \times 5.0$ (1.50 $\times 23.27 \times 0.197$) or GKN-EUR: $40.5 \times 600.8 \times 2.7$ (1.59 $\times 23.65 \times 0.10$)

(d) GKN-EUR: 40.5×597.6 (1.59 \times 23.5) or SSG: $38.0 \times 591.1 \times 5.0$ (1.50 \times 23.27 \times 0.197) or GKN-EUR: 40.5×591.6 (1.59 \times 23.3)

(e) GKN-EUR: G169 or GKN-US C-2000 or SSG: #19

(f) GKN-EUR: 92 AC or GKN-US: C-2000 or SSG: #23

(g) GKN-EUR: 25.0×325.9 (0.98 \times 12.83) or SSG: 23.9×327.5 (0.94 \times 12.98)

(h) GKN-EUR: 40.5×591.6 (1.59 \times 23.3) or SSG: 38.0×591.1 (1.50 \times 23.27)

METRIC (U.S. Customary)

Body	Type
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1990 Issued 9-15-89 Revised (*)

Ali

Rear: 30.2 (1.19)

Front: 20 (0.79) Rear: 12.7 (0.50)

	Standard / optional / not avail.	
	Manual/automatic control	
:	Type (air / hydraulic)	
ar	Primary / assist spring	
eveling	Rear only / 4 wheel leveling	
	Single / dual rate spring	
	Single / dual ride heights	
	Provision for jacking	
	Standard / optional / not avail.	
	Manual / automatic control	
hock	Number of damping rates	
bsorber	Type of actuation (manual/	
amping	electric motor / air, etc.)	
ontrois	<u>sensors</u>	
	Lateral acceleration	
	Deceleration	
	Acclereration	
	Road surface	
hock	Туре	Direct - Hydraulic
sbsorber	Make	Monroe
		30 (4.00)

Suspension - Front

(front &

rear)

Piston diameter

Rod diameter

Type & description		lso-strut		
Travel*	Full jounce	72.9 (2.87)		
	Full rebound	100.3 (3.95)		
	Type (coil, leaf, other) & material	Coil, AISI 5160 H Chromium steel		
;	Insulators (type & material)	Compression: Rubber		
Spring	Size (coil design height & i.d.,			
	bar length x dia.)	216 x 152 1.D. (8.5 x 6.0 1.D.)		
	Spring rate (N/mm (lb./in.))	16.7 (95)		
	Rate at wheel [N/mm (lb./in.)]	20.2 (115)		
Stabilizer	Type (link, linkless, frameless)	Linkless		
	Material & bar diameter	AISI 1090 Spring steel 27.0 (1.06)		

Front: 32 (1.26)

Suspension - Rear

202beu21	On - Rea	Ir			
Type & des	cription		Trailing flex-arm with track bar		
Travel*	Full jounce		40 (1.57)		
	Full rebound		151 (5.94)		
	Type (coil, leaf, other) & material Size (length x width, coil design height & i.d., bar length & dia.) Spring rate [N/mm (lb./in.)]		Coil: AISI 5160 H Chromium steel		
			229 x 102 (9.0 x 4.01)		
Spring			31.5 (180)		
	Rate at wheel [N/mm (lb./in.)]		20.2 (115) Curb position		
	insulators (type & material)		Compression: Rubber		
	If	No. of leaves	••		
i	leaf	Shackle (comp. or tens.)			
Stabilizer	Type (link, linkless, frameless)		Frameless ERW Tube		
-	Material & bar diameter		80 KSI HSLA steel 28.6 (1.13) O.D.		
Track bar (ack bar (type)		Channel		
		ione Consessor Service 3 Front 2 - Pour el	Full tank of oas		

^{*} Define load condition:; Passenger Seating - 2 Front - 3 - Rear - Full tank of gas

Validation DI VMOLITH SLINDANCE

venicle time Fr	TIMOUT		MCE		
Model Year	1990	issued	9-15-89	Revised (●)	

METRIC (U.S. Customary)

Body Type And / Or
Engine Displacement

)acceration						
Description				Four-wheel hydraulic-actuated system		
Manufactu	rer and	Front (disc or drum)		Disc		
	(std., opt., n.a.)			Drum		
alving type (proportion, delay, metering, other)				Dual proportioning valve		
Power brake (std., opt., n.a.)				Standard		
	ster type (remote, integral, vac., hyd., etc.)			Vacuum, single or tandem		
ooster typ				Intake manifold or throttle body		
acuum		ine, pump, etc.)		migre maintage of an other poly		
acoun	Reservoir (volume in.3) and source Pump-type (elec., gear driven, belt driven)					
raction	Operational s					
		ntervention (electronic, med				
ontroi			n.,			
ļ	Front/rear (sto					
	Manufacture					
Anti-lock	Type (electron					
levice	Number senso					
		lock hydraulic circuits				
	Integral or ad					
	Yaw control (
	Hydraulic power source (elec., vac. mtr., pv		wr. strg.)	F: 155.6 (24.12) / R: 242.7 (37.6)		
	rea (cm²(in.²))*	<u> </u>		F: 180.8 (28.02) / R: 258.1 (40.0)		
	lining area (cm²(in.²))**(F/R)					
wept area	a [cm²(in.²)]***(F: 1385 (214.7) / R: 4119 (63.8)		
<u> </u>	Outer working diameter		F/R	F: 256.0 (10.08)		
Rotor	Inner working	diameter	F/R	F: 160.0 (6.30)		
	Thickness		F/R	F: 24.0 (0.945)		
	Material Type (vented/solid)		F/R	F: damped cast iron, vented		
Drum	Diameter & Width		F/R	R: 200 (7.87) × 37.62 (1.48)		
	Type & Material		F/R	R: Cast composite		
Wheel cyli	nder bore			F: 54 (2.13) / R: 15.87 (0.625)		
Master cyli	inder	Bore/stroke	F/R	21.0 (0.827) / 32.79 (1.291)		
Pedal arc r	*			3.28 : 1		
ine pressu	ure at 445 N(100	lb.) pedal load (kPa (psi))		Single: 9584 (1390) Tandem: 12750 (1850)		
ining clea	rance		F/R	No major adjustment		
		Bonded or riveted (rivets	seg.)	Riveted, 6/shoe		
		Rivet size	<u> </u>	3.57 (0.14) dia. × 7.57 (0.3)		
		Manufacturer		Bendix		
	Front	Lining code ****		BX-JD-EE		
	Wheel	Material		Molded metallic		
	Г	**** Primary or outbo	pard	136.6 × 47 × 12.1 (5.38 × 1.85 × 0.48)		
		Size Secondary or inb	oard	$126.0 \times 47 \times 13.1 (4.96 \times 1.85 \times 0.52)$		
Irake	1	Shoe thickness (no lining)		Outer: 4.83 (0.190); Inner: 5.68 (0.224)		
ining	 	Bonded or riveted (rivets		Riveted, 10 / shoe		
9	<u> </u>	Manufacturer		Bendix		
	Rear	Lining code ****		BX-MO-FF		
	Wheel Material			Rolled asbestos		
	'''''' -	**** Primary or outbo	pard	198.56 × 32.5 × 6.65 (7.82 × 1.28 × 0.262)		
	1 F	Size Secondary or inb		198.56 × 32.5 × 6.65 (7.82 × 1.28 × 0.262)		
İ	1 -	Shoe thickness (no lining)		2.17 (0.0854)		

^{*}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 & coefficient of friction classification.

METRIC (U.S. Customary)

Body	Туре	And	/ Or	

Vehicle Line PLYMOUTH SUNDANCE 1990 9-15-89 Revised (•) Model Year

Optional - All

4.83 (0.190)

Engine Dis	placement				Optional - All		
Brakes •	Service						
Description							
					Four-wheel hydraulic-actuated system		
Manufacti	urer and	Front (e	disc or drum)		Disc		
orake type	e (std., opt. <u>,</u> n. <u>a</u>	.) Rear (d	isc or drum)		Disc		
Valving ty	pe (proportion	, delay, met	ering, other)		Dual proportioning valve		
Power bra	ke (std., opt., n	.a.}			Standard		
Booster ty	pe (remote, int	egral, vac.,	hyd., etc.)		Vacuum, tandem		
	Source (inlin	ie, pump, ei	tc.)		Intake manifold		
Vacuum	Reservoir (v	olume in. ³)	and source		•		
	Pump-type	(elec., gear	driven, belt driven)				
Traction	Operationa	speed rang	je				
control	Type engine	interventi	on (electronic, mec	h.)			
	Front/rear (std., opt., n.	a.)				
•	Manufactui	er					
Anti-lock	Type (electr	onic, mech.	.)				
device	Number ser	Number sensors or circuits					
	Number an	ti-lock hydra	aulic circuits				
	integral or a	integral or add-on system					
	Yaw contro	i (yes, no)					
	Hydraulic p	ower source (elec., vac. mtr., pwr. strg.)		wr. strg.)			
Effective a	area [cm²(in.²)]	* (F/R)			F: 216.8 (23.60) / R: 115.8 (17.95)		
Gross linin	ng area (cm²(in	2)]**(F/R)			F: 261.6 (40.55) / R: 115.8 (17.95)		
Swept are	ea {cm²(in.²)]**	*(F/R)			F: 1597.3 (247.6) / R: 1147.2 (177.82)		
-	Outer work	ing diamet	er	F/R	F: 256.0 (10.08) / R:267.3 (10.52)		
Rotor	Inner worki	ng diamete	۱۲	F/R	F: 160.0 (6.30) / R: 193.5 (7.62)		
	Thickness			F/R	F: 24.0 (0.945) / R:22.0 (.866)		
	Material Ty	pe (vented/	'solid)	F/R	Damped cast iron, F: vented / R: solid		
Drum	Diameter &			F/R	N.A.		
	Type & Mat	erial		F/R	N.A.		
Wheel cyl	linder bore				R: 54.0 (2.13) / R:34.0 (1.34)		
Master cy		Bore/s	troke	F/R	22.22 (0.875) / 32.79 (1.291)		
Pedal arc					3.28 : 1		
Line press	ure at 445 N (1	00lb.) peda	l load [kPa (psi)]		9650 (1400)		
Lining cle				F/R	No major adjustment		
	T	Bonde	d or riveted (rivets/	seg.)	Bonded		
	1	Rivet s	ize				
	1		facturer		Friction Products Division		
	Front	Lining	code *****		FDP-1471-2-EE		
	Wheel	Mater			Semi-metallic, non-asbestos		
		****	Primary or outbo	pard	5770 mm ² × 11.34 (8.94 in ² × 0.446)		
		Size	Secondary or inb	oard	4860 mm ² × 12.34 (7.53 in ² × 0.486)		
Brake		Shoe t	oe thickness (no lining)		5.3 (0.209)		
lining		Bonde	d or riveted (rivets	/seg.)	Bonded		
•	1	Manu	facturer		Friction Products Division		
	Rear	Lining	code ****		FDP-1471-2-EE		
	Wheel	Mater			Semi-metallic, non-asbestos		
		****	Primary or outbo	pard	2892 mm ² x 11.0 (4.48 in ² x 0.43)		
		Size	Secondary or inb	oard	2892 mm ² x 11.0 (4.48 in ² x 0.43)		
	1				4.92 (0.100)		

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

Shoe thickness (no lining)

^{***} 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 & coefficient of friction classification.

MVM.	A Specifica	tions	Vehicle Line PLYMOUTH SUNDANCE		
	•		Model Year 1990 Issued 9-15-89 Revised (*)		
METRIC	(U.S. Customar	y)			
Body Type Engine Dis	a And/Or splacement		Ali		
Tires An	d Wheels (Star	ndard)			
	Size (load range,	ply)	P185/70 R 14, SL		
	Type (bias, radial	, steel, nylon, etc.)	All season Steel radial		
Tires	Inflation pres- sure (cold) for	Front [kPa (psi)]	220 (32)		
	recommended max. vehicle load	Rear (kPa (psi))	220 (32)		
	Rev/mile - at 70 k		862		
	Type & material		Steel disc		
	Rim (size & flange	e type)	14×5.5JJ		
Wheels	Wheel offset		40 (1.6)	- "	
*********		Type (bolt or stud)	Stud		
	Attachment	Circle diameter	100 (3.94)	_	
	Acception	Number & size	5 - M12×1.5		
	Tire and wheel		T115/70 D14 compact spare		
Spare			14 × 4.0 T steel disc wheel		
Spu. C	Storage position	& location			
	(describe)		Horizontal - Rear floor pan under cargo floor		
	1144 - 1- (0-4	:1			
	nd Wheels (Opt	ional)	P185/70 R 14, SL		
	load range, ply)		All season performance steel radial		
	s, radial, steel, nylo	n, etc.)	Cast aluminum		
	rpe & material)	66-a4)	14×6.0, JJ, 40 (1.6)		
	flange, type and o	riset)	P185/70 R 14, SL		
	load range, ply) s, radial, steel, nylo	o etc)	All- season performance steel radial		
	rpe & material)		standard		
	flange type and of	(feat)	40		
	load range, ply)	i i i i i i i i i i i i i i i i i i i	Standard		
	s. radial. steel. nylo	n etc)			
	oe & material)		Cast aluminum		
	flange type and of	(fset)	14×6.0. JJ. 40 (1.6)		
	load range, plv)				
	s, radial, steel, nylo	n, etc.)			
	rpe & material)				
	flange type and of	ifset)			
	and wheel (size)				
•	uration is different	than road tire or	Same as road tire and wheel		
wheel, describe optional spare tire and/or			Storage same as standard		
wheel lo	cation & storage po	osition)			
Restor	- Parking				
Type of co			Foot operated pedal/hand release lever		
	of control		Lower left end of instrument panel		
Operates			Rear service brake - Std.; "Hat" section of rear disc brake - c	opt.	
If separat		l or external)	Internal - optional		
from serv			170.7 (6.7)		
brakes	Lining size (le		$426 \times 20 \times 5.0 (16.8 \times 0.8 \times 0.2)$		
	width x thick	· 1			

METRIC (U.S. Customary)

Vehicle Line	PLYMOUT	H SUNDANCE	
Model Year		Issued 9-15-89	Revised(•)

Body Type And/ Or Engine Displacement				14" Wheels	15" Wheels	
Steering	· 	=				
Manual (std.,	opt., n.a.)				A	
Power Steerii	ng (std., opt	t., n.a.)			<u>:d</u>	
Adjustable		Туре		T	ilt	
steering whe	el column	Manufacture	r	Acı	istar	
(tilt, telescop	e, other)	(Std., opt., n.a	a.)		pt	
Wheel diame	ter**	Manual		N	.A.	
(W9) SAE J11	00	Power			(15)	
Turning	Outside	Wall to wall (1. & r.)			
diameter	front	Curb to curb		10.4 (34.0)	10.9 (35.7)	
m (ft.)	Inside	Wall to wall (
• •	rear	Curb to curb				
Scrub Radius	•			-7 (-	0.28)	
		Туре				
Manual	Gear	Manufacturer				
		Ratios	Gear			
			Overall			
	No. wheel turns (stop to stop)		stop)			
		xial, elec., hyd.		Integral r	ower gear	
	Manufac			T.1	R.W	
Power		Туре		Rack & pinion with	integral power unit	
	Gear	Ratios Gear Overall		52.3 mm / Rev.		
				14.2:1		
	Pump (dr	ive)		Pulley and belt, off crankshaft		
		turns (stop to	stop)	2.42	2.37	
<u> </u>	Type			Rack & Pinion (Rod & ball	directly attached to gear)	
Linkage		(front or rear				
	of wheels			Rear of wheels		
		- · ·	Ì			
	Tie rods (one or two)		Two (tie rod inners integr	al with rack & pinion gear)	
		on at camber (d	eq.)	13.36		
Steering	Bearings			Ball b	pearing	
axis	(type) Lower Thrust			Ball joint		
				Ball bearing		
Steering spin	dle & ioint	1		ISO strut with	lower ball joint	
2.00	_	r Inner bearin			37 / 40 (1.46 / 1.57) wide	
Wheel		Outer bearing				
spindle/hub	Thread (s		-	M22 x 1.5		
spinolemuo	Bearing (type)				gular-contact ball	
	Dearing (- wheel contacting and kinggin (hall joint)		

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

^{**}See page 21

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1990 | Issued 9-15-89 | Revised (*)

Body Type And/Or Engine Displacement All

Wheel Alignment

	Service	Caster (deg.)	**		
	checking	Camber (deg.)	-0.2° to + 0.8°		
		Toe-in [outside track - mm(in)]	0.4° Toe-in to 0.2° Toe-out (a)		
Front	Service	Caster	Not adjustable; Ref.; 1.4° Max. side to side Differential 1.5°		
wheel at	reset*	Camber	+ 0.3° ± 0.3°		
curb mass		Toe-in	+ 0.1° toe-in ± 0.1° (a)		
(wt.)	Periodic	Caster	Same as Service Checking		
••••	M.V. in-	Camber	-		
	spection	Toe-in			
	Service	Camber (deq.)	-1.3° to + 0.3°		
Rear	checking	Toe-in [outside track - mm(in)]	0.6° Toe-out to 0.6° Toe-in (a)		
wheel at	Service Camber		-0.5° ± 0.8° (shim)		
curb mass	reset*	Toe-in	0° ± 0.6° (shim) (a)		
(wt.)	Periodic M.V.		Same as Service Checking		
(** 6.7	inspection	Toe-in	••		

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

Speed-	Type (Analog, digital, std., opt.)	Electric/Analog		
ometer	Trip odometer (std., opt., n.a.)	Std.		
	ance indicator			
Charge	Туре	Voltmeter		
indicator	Warning device (light, audible)			
Temp.	Туре	Magnetic gage		
indicator	Warning device (light, audible)			
Oil pressure	Туре	Light		
indicator	Warning device (light, audible)	ed		
Fuel	Туре	Magnetic gage		
indicator	Warning device (light, audible)	Light - Opt. with message center - Std. with turbo		
Wind-	Type (standard)	Electric 2 speed, non-depressed park		
shield	Type (optional)	Electric 2 speed, intermittent wipe 457 (18)		
wiper	Blade length			
	Swept area [cm² (in²)]	5658 (877)		
Wind-	Type (standard)	Electric (arm mounted) Opt.		
shield	Type (optional)			
washer	Fluid level indicator (light, audible)	**		
Rear window	wiper, wiper/washer (std., opt., n.a.)	N.A.		
Horn	Туре	Seashell		
	Number used			

⁽a) Measurements in degrees, not inches

METRIC (U.S. Customary)

Vehicle Line	PLYMOUTH	SUNDA	ANCE		
Model Year	1990	Issued	9-15-89	Revised(•)	

Engine Desc Engine Code	•	2.2L(135.0 in ³) TBI-EFI EDF	2.	SL (153.0in³) TBI-EFI EDM		
Flectrical	- Supply System					
Electrical	Manufacturer	GNR Delco i	xide, Johnson C	ontrols		
	Model, std., (opt.)	<u> </u>	GRP 34			
	Voltage		12V			
Battery	Amps at 0°F cold crank		500			
outtery	Minutes-reserve capacity		110			
	Amp/hrs 20 hr. rate		66			
	Location	Left fron	t fender side sh	ield		
	Manufacturer	Nippondenso		Bosch		
Alternator	Rating (idle/max. rpm)	90 HS		90 RS		
	Ratio (alt. crank/rev.)	2.60 : 1		2.53 : 1		
	Output at idle (rpm, park)	40 A		40 A		
	Optional (type & rating)		none			
Regulator	Туре	Engine	control comput	er		
Electrical	- Starting System					
	Manufacturer		Bosch			
Motor	Current drain at 0°F	175 - 225 A				
	Power rating (kW (hp))	1.1 (1.475)				
Motor	Engagement type	Solenoid shift				
drive	Pinion engages	Front				
	from (front, rear)					
Electrical	- Ignition System		N. A			
Туре	Electronic (std., opt., n.a.)	N.A.				
	Other (specify)	Engine control computer w/ electronic spa				
	Manufacturer	UTC	Prestolite	<u>Diamond</u> 5227252		
Coil	Model	5226865	5227372 0.0 A	322/232		
	Current Engine stopped - A		1.9 A			
_	Engine idling - A					
	Manufacturer	Champion RN12YC				
	Model					
Spark	Thread (mm)		14 mm			
plug	Tightening torque [Nem (lb-ft)]	28 (20)				
	Gap	0.9 (0.035) One				
D	Number per cylinder	One Chrysler				
Distributor	Manufacturer	5226575				
	Model		34403/3_			
Electrical	Suppression					
Locations &		Resistor spark plugs; Resistand Blower motor; Diode - A/C clu Suppression filter; Ground cal A/C evaporator valve to dash, Clutch relay	itch, Horn relay ble - Engine to d	, Starter relay, wiper motor lash, Engine mount,		

METRIC (U.S. Customary)

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1990 Issued 9-13-89 Revised(•)

Engine Description Engine Code 2.5 L (153.0in³) SMPI Turbo EDT 2.2 L (135.0 in3) SMPI VNT Turbo EDR

	Manufacturer		Pelco, Exide, GNB, Jo	hnson Controls			
	Model, std., (opt.)	GRP 34					
	Voltage		12V				
Battery	Amps at 0°F cold crank		500				
•	Minutes-reserve capacity	110					
	Amp/hrs 20 hr. rate		66				
	Location	Lef	t front corner of eng				
	Manufacturer	Nippondenso	Bosch	Nippondenso			
	Rating (idle/max. rpm)	90 HS	90RS	120 HS			
Alternator	Ratio (alt. crank/rev.)	2.60:1	2.53:1	2.60:1			
	Output at idle (rpm, park)	40 A	40 A	50 A			
	Optional (type & rating)		none				
Regulator	Type	Engine control computer					

Electrical - Starting System

	Manufacturer	Bosch	Bosch	
Motor	Current drain at 0 °F	175 - 225 A	125 - 175 A	
	Power rating [kW (hp)]	1.1 (1.475)	1.1 (1.475)	
Motor	Engagement type	Soleno	oid shift	
drive	Pinion engages	Front		
	from (front, rear)			

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)			N.A.			
.764	Other (s		Engine control computer w/ electronic spark advance				
	Manufa		UTC	Prestolite	Diamond		
Coil	Model		5226865	5227372	5227252		
	Current	Engine stopped - A	0.0 A				
		Engine idling - A		1.9 A			
**	Manufacturer		Champion				
	Model		RN12YC				
Spark	Thread (mm)	14 mm 28 (20) 0.9 (0.035)				
plug		ng torque [Nem (lb-ft)]					
p.og	Gap						
		per cylinder	One				
Distributor	Manufa			Chrysler			
Distributor	Model			5226525			

Electrical Suppression

Resistor spark plugs; Resistance ignition wire; Capacitor - Alternator, Blower motor; Diode - A/C clutch, Horn relay, Internal fuel pump filter, Starter relay; Ground cable - Engine to dash, Engine mount, Blocking Diode-Clutch relay

Locations & type

METRIC (U.S. Customary)

Vehicle Lin <u>e</u>	PLYMO	UTH SUNDANCE	
Model Year	1990	Issued 9-15-89	Revised(•)

Body Type			All
		Į	
Daniel. e			
Body			
			Unibody unitized construction with bolt on
Structure			front suspension crossmember
J			
			Front: TPO fascia Ultra high strength steel reinforcement
Bumpert	vetam		w/elastomeric energy absorbers
Bumpers front - rea	-	İ	Rear: TPO fascia Ultra high strength steel reinforcement
1101111-160	u ,		w/elastomeric energy absorbers
			E 11 !
			Full immersion zinc phosphate conversion coating
			Full immersion, high build, epoxy cathodic-
			electrocoat primer
Anti-corr	osion treatment		Extensive use of galvanized steel
			Urethane chip resistant primer on lower exterior surfaces
<u> </u>			
Body - I	Miscellaneous Int	formation	
Type of f	nish (lacquer, ename	l, other)	Enamel - Universal base coat / Clear coat
	Material & mass		20.5 (45.3)
Hood	Hinge location (fro		Rear
	Type (counterbala		Counterbalance, clockspring
	Release control (in	ternal, external)	Internal
Trunk	Material & mass		
lid	Type (counterbala		***
		ntrol (elec., mech., n.a.)	15.7 (34.7)
Hatch-	Material & mass		Gas pressurized struts
back lid			Mechanical
	Internal release control (elec., mech., n.a.)		THE CHAINCAL
Tailast-	Material & mass		pan
Tailgate Type (drop, lift, dobr) Internal release control (elec., mech., n.a.)			
Vent window control (crank, Front			None
		Rear	None
		Front	Manual & Electric arm & sector (P-24)
• • • • • • • • • • • • • • • • • • • •		Rear	Manual arm & sector / Electric - Flex Drive
		Front	Bucket - Flex-O-Lator Mat
•	40, bucket, bench,	Rear	Bench - Full volume Foam
wire, foa		3 rd seat	
Seat back		Front	Bucket - Flex-O-Lator Mat
	40, bucket, bench,	Rear	Bench - Full volume Foam - Std. 60/40 Full Foam - Opt.

wire, foam, etc.)

MVMA Specifications	Vehicle Line PLYMOUTH SUNDANCE	
	Model Year 1990 Issued 9-15-89 Revised (●)	
METRIC (U.S. Customary)		
Body Type	All	
N Company of the Comp		

Restraint :	System					·		
eating Posit				Left	Center	Right		
	Type & description		First seat	Lap & shoulder belt Std.	N.A.	Lap & shoulder belt Std.		
Active	(lap & shoulder belt	.,	Second seat	Lap & Shoulder belt Std.	Lap belt Std.	Lap & Shoulder belt Std.		
	Standard/Optional		Third seat	N.A.	N.A.	N.A.		
	Type & description		First seat	Air bag & Knee bolster Std.	Ñ.A.	N.A.		
Passive	(air bag, motorized 2-point belt, fixed I knee bolster, manu lap belt)	selt,	Second seat	N.A.	N.A.	N.A.		
	Standard/Optional		Third seat	N.A.	N.A.	N.A.		
	<u></u>	SAE Ref. No.	· · · ·	24 - 2 Door		44 - 4 Door		
	glass exposed	S1						
surface area	[cm²(in²)]			<u> </u>	064 (1405)			
_	cposed surface 1 ²)] - total 2 sides	52		9352 (1450) 9952 (1543)				
Backlight gl surface area	ass exposed a [cm²(in²)]	\$3		6794 (1053)				
Total glass e area [cm²(ir	exposed surface 12)]	\$4	25210 (2908) 25810 (3011)					
Windshield	glass (type)			Lamin	ated safety glass			
Side glass (t	ype)			Heat tro	eated safety glass			
Backlight gl	ass (type)		Heat treated safety glass					
Lamps an	d Headlamps Lo	cations						
	Description - seale			Dan	laceable bulb			
}	halogen, replacea	DIE DUID, ETC			Aero			
Shape Headlamps Lo-beam type (2A1, 2B1,		<u></u>	9004					
}	2C1, etc.) Quantity		<u> </u>		2			
ļ	Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)			9004				
	Quantity				2			
Frame					•			
Type and d	escription (separate ame, partially-unitiz	frame		Unitiz	ed Construction			

METRIC (U.S. Customary)

MEIKI	. (U.S.	Castor	nary

Body	Tues	

Vehicle Line P	LYMOUT	H SUNDA	ANCE	
Model Year	1990	issued	9-15-89	Revised (*)
				_
			All	

Body Type		All	
•			
onvenie	nce Equipment (standard, optional, n.a.	1	
\ir conditio	oning (manual,	Manual - Opt.	
uto, temp	-		
uto. temp			
Clock (digit	al, analog)	Digital (In radio) - Std.	
	ermometer	N.A	
	oor, overhead)	Floor - Mini - Std.; Full - Opt.	
	elec. backlight	Opt.	
	Diagnostic monitor (integrated, individual	Integrated - Std.	
	Instrument cluster (list instruments)	N.A.	
	Keyless entry	N.A.	
Electronic	Tripminder (avg. spd., fuel)	N.A.	
	Voice alert (list items)	N.A.	
	Other	N.A.	
		N.A.	
Fuel door lock (remote, key, electric)		N.A	
	Auto head on / off delay, dimming	N.A.	
	Cornering	N.A.	
	Courtesy (map, reading)	N.A.	
	Door lock, ignition	Door lock - N.A.; Ignition - Std.	
	Engine compartment	Opt.	
Lamps	Fog	Opt.	
	Glove compartment	Opt.	
	Trunk	Opt.	
	Illuminated entry system		
	(list lamps, activation)	N.A	
	Other	Ash receiver - Opt.	
		Manual - Std.	
	Day / night (auto. man.)	Remote manual - Std. / Power - Opt.	
	L.H. (remote, power, heated)	Remote manual - Std. / Power - Opt.	
Mirrors	R.H. (convex, remote, power, heated)	RH/LH Non-illuminated - Std. / RH/LH illuminated - Opt.	
	Visor vanity (RH/LH, illuminated)	Krych Nor-mainitates - 3to.7 Krych mainitates - Opt.	
Navigation	system (describe)	N.A.	
	ake-auto release (warning light)	N.A.	

MVMA Specifications Vehicle Line PLYMOUTH SUNDANCE Model Year issued Revised (*) **METRIC (U.S. Customary)** All **Model Code** Convenience Equipment (standard, optional, n.a.) N.A. Deck lid (release, pull down) Door locks (manual, automatic, Power manual - Opt. describe system) 6- way - Opt. 2 - 4 - 6 way, etc. N.A. Reclining (R.H., L.H.) N.A. Seats Memory (R.H., L.H., preset, recline Power N.A. Lumbar, hip, thigh, support Equipment N.A. Heated (R.H., L.H., other) Opt. Side windows **Vent windows** Opt. on 4-door only **Rear windows** Whip - Right front fender - Std. Antenna (location, whip, w/shield, power) AM/FM/MX/ETR Std. AM stereo/FM/MX/ETR w/Cassette AM, FM, stereo, tape. compact disc, graphic equalizer, Infinity I - Premium AM stereo/FM/MX w/Cassette theft deterrent, radio prep pkg., Radio Opt. headphone jacks, etc. systems 2, front doors - Std. 2, front doors / 2, rear shelf - Opt. Speaker (number, location) 2 ea. coaxial, equalized, front doors and rear shelf - Opt. w/ Infinity I Flip-up - removable - Opt. Roof open air fixed (flip-up, sliding, "T") Opt. Speed control device N.A. Speed warning device (light buzzer, etc.) Std. Tachometer (rpm) N.A. Telephone system (describe) Inside hood release, Glove box lock, Anti-theft labels- Std. Theft deterrent system

Vehicle Line PLYMOUTH SUNDANCE Model Year 1990 Issued 9-15-89 Revised(*)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for Definitions

All dimensions to ground are for comparitive 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 #1100" Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	24	44
ØWidth		1463	(F3.5)
Tread (front)	W101	1462 (
Tread (rear)	W102	1453 (
Vehicle width	W103	1710 (
Body width at SgRP (front)	W117	1708 (
Vehicle width (front doors open)	W120	4074 (160.4)	3431 (135.1)
Vehicle width (rear doors open)	W121		3297 (129.8)
Tumble-home (deg.)	W122	24	4
Outside mirror width	W410		
ØLength	I	2463	(07)
Wheelbase	L101	<u>2463</u> 4361 (
Vehicle length	L103	974 (
Overhang (front)	L104		
Overhang (rear)	L105	924 (
Upper structure length Rear wheel C/L "X" coordinate	L123	2413 2552 (
ØHeight*	PD 1,2,3	2 - Front	3 - Rear
Passenger distribution (front/rear)	PD 1,2,3	24710110	3 - I/ear
Trunk/cargo load	H101	1336	(52.6)
Vehicle height	H114	927 (· · · · · · · · · · · · · · · · · · ·
Cowl point to ground	H138	922 (
Deck point to ground	H112		(8.0)
Rocker panel front to ground	H111		(6.8)
Rocker panel rear to ground	H122		6°
Windshield slope angle	H121		4°
Backlight slope angle Ground Clearance			
Front bumper to ground	H102		(9.7)
Rear bumper to ground	H104	261 (10.3)
Bumper to ground (front	H103		
at curb mass (wt.))		263 (10.4)
Bumper to ground (rear	H105		
at curb mass (wt.)]	344 (13.5)		
Angle of approach (degrees)	H106 16°		
Angle of departure (degrees)	н107 16°		
Ramp breakover angle (degrees)	H147	H147 12°	
Axle differential to ground (front/rear)	H153		41 (5.6)
Min. running ground clearance	H156		(4.6)
Location of min. run. ground clearance		Fet Susa C'mbr Ri	rkt. (left hand side)

^{*} All vehicle height and ground clearance are made at the Manufacturer's Design Load Weight.

Manufacturer's Design Load Weight is defined with indicated passenger distribution and trunk/cargo load, unless otherwise specified. All linear dimensions are in millimeters (inches) unless otherwise noted.

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1990 Issued 9-15-89 Revised(*)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Body Type		24	44
7 Front Compartment	SAE Ref. No.		
SgRP front, "X" coordinate	L31	1398 (55.0)	+
Effective head room	H61	973 (38.3)	+
Max. eff. leg room (accelerator)	L34	1055 (41.5)	Φ
SgRP to heel point	H30	271 (10.7)	+
SgRP to heel point	L53	841 (33.1)	(=
Back angle	L40	24°	¢
Hip angle	L42	96°	+
Knee angle	L44	123°	+
Foot angle	L46	87°	4
Design H-point front travel	L17	197 (7.8)	(=
Normal driving & riding seat track trvl.	L23	178 (7.0)	(=
Shoulder room	W3	1382 (54.4)	1390 (54.7)
Hip room	W5	1404 (55.3)	1408 (55.4)
Upper body opening to ground	H50	1229 (48.4)	(=
Steering wheel maximum diameter*	W9	381 (15.0)	(=
Steering wheel angle	H18	25.8°	(
Accelerator heel pt. to steer, whi, cntr.	L11	497 (19.6)	+
Accelerator heel pt. to steer, whil. cntr.	H17	637 (25.1)	+
Undepressed floor covering thickness	H67	22 (0.9)	4 20

@ Rear Compartment

L50	740 (29.1)	¢=
Н63	949 (37.4)	+
L51	864 (34.0)	\(\begin{array}{c}\end{array}\end{array}\end{array}\end{array}
H31	281 (11.1)	(=
L48	-25 (-1.0)	(=
W4	1334 (52.5)	1384 (54.5)
W6	1206 (47.5)	1136 (44.7)
HS1	NA	1226 (48.3)
L41	25°	(=
L43	83°	(=
L45	84°	4- -
L47	119°	(=
H73	13 (0.5)	(=
	H63 L51 H31 L48 W4 W6 H51 L41 L43 L45	H63 949 (37.4) L51 864 (34.0) H31 281 (11.1) L48 -25 (-1.0) W4 1334 (52.5) W6 1206 (47.5) H51 NA L41 25° L43 83° L45 84° L47 119°

Luggage Compartment

Loddode combonine		
Usable luggage capacity [L (cu. ft.)]	V1	NA
Liftover height	H195	751 (29.6)

Interior Volumes (EPA Classification)

Interior volumes (EPA classification)		
Vehicle Class	Compact	¢ =
Interior volume index (cu. ft.)**	101.9	101.8
Trunk / cargo index (cu. ft.)	13.2	13.1

^{*} See p. 14

^{**} Includes passenger and trunk / cargo index - see definition page 32.

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1990 Issued 9-15-89 Revised(•)

METRIC (U.S. Customary)

Vehicle Dimensions	See Key Sheets	for Definitions

Body Type	SAE Ref.	24	44
	No.		<u> </u>

SgRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	н86	
SgRP to heel point	H87	
Knee clearance	L87	
Seat facing direction	SD1	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	

Station Wagon - Cargo Space

Foot angle

Station wagon - Cargo Space	1 1000	
Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	·
Opening width at belt	W204	
Min. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [m³(ft.3)]	V2	
Hidden cargo volume [m³(ft.³)]	V4	
Cargo volume index-rear of 2 nd -seat	V10	

Hatchback - Cargo Space

Cargo length at front seatback height	L208	928 (3	6.5)
Cargo length at floor (front)	L209	1602 (53.1)
Cargo length at second seatback height	L210	270 (1	0.6)
Cargo length at floor (second)	L211	880 (3	4.6)
Front seatback to load floor height	H197	560 (2	2.0)
Second seatback to load floor height	H198	489 (1	
Cargo volume index(m³(ft.³))	V3	0.943 (33.29)	0.935 (33.03)
Hidden cargo volume [m³(ft.³)]	V4		
Cargo volume index-rear of 2 nd -seat	V10	0.375 (13.25)	0.372 (13.15)

MVMA Specifications	5
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Vehicle Line	PLYMOU	TH SUND	ANCE	
Model Year	1990	Issued	9-15-89	Revised(•)

METRIC (U.S	. Custon	nary)
ody Type		All
ehicle Fidu	cial Mar	ks
iducial Mark iumber*	_	Define Coordinate Location
ront		The center of gauge holes located in front longitudinal approximately 836 mm (32.9 in.) from centerline of front wheels.
lear		The center of gauge holes located in rear longitudinal approximately 3057 mm (120.4 in)
~ a1		from the centerline of front wheels.
iducial		
/lark		
iumber		
	W21	433.5 (17.1)
	L54	925 (36.4)
ont	H81	-9 (-0.35) Bottom surface of Longitudinal
	H161	
	н163	
-	W22	527.6 (20.8)
	L55	3146 (123.9)
ear	H82	235 (9.3) Bottom Surface of Longitudinal
	H162	
	H164	
	-	
		·

MVMA - 90

^{*}Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

METRIC (U.S. Customary)

Vehicle Line	PLYMOUT	H SUNDA	NCE		
Model Year	1990	Issued	9-15-89	Revised(●)	

Estimated

	•	Vehicle Mass (Weight)							
		CURBI	MASS, kg (wei	ght, lb.)*	% PASS. MASS DISTRIBUTION				
Code	Model	Front Rear		Total	Pass, in Front		Pass in	Rear	ETWC**
		_			Front	Rear	Front	Rear	Code
APPH24	Sundance	730	456	1186					,
2.2L (135.0 in ³)	EDF Engine	(1609)	(1006)	(2615)	49.0	51.0	19.0	81.0	3000
APPH44	Sundance	730	474	1204					3000 - manual
2.2L (135.0 in ³)	EDF Engine	(1610)	(1045)	(2655)	49.0	51.0	19.0	81.0	3125 - auto.
APPH24	Sundance								3000 - manual
2.5L (153.0 in ³)	EDM Engine					-			3125 - auto.
APPH44	Sundance					1			†
2.5L (153.0 in ³)	EDM Engine			**					3125
	All			·	1]	1		
2.5L (153.0 in ³)	EDT Engine					<u> </u>	<u> </u>		3125
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^{*} Reference - SAE J1 100 Motor vehicle dimensions, curb weight definition.

			ETWC L	EGEN	ID O		
Α	= 1000	1	= 2000	Q	= 3000	Υ	= 4000
В	= 1125	J	= 2125	Ŕ	= 3125	Z	= 4250
č	= 1250	K	= 2250	S	= 3250	ĀA	= 4500
Ď	= 1375		= 2375	Ť	= 3375	88	= 4750
Ē	= 1500	M	= 2500	U	= 3500	CC	= 5000
Ē	= 1625	N	= 2625	٧	= 3625	DD	= 5250
Ġ	= 1750	Ó	= 2750	W	= 3750	ĒĒ	= 5500
H	= 1875	P	= 2875	X	= 3875	FF	= 5750

SHIPPING MASS (weight) Calculation Kg (lbs.) Shipping Mass (weight) = Curb Weight less:				
				

^{**}ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certification.

Refer to ETWC code legeng below for test weight class.

 Vehicle Line
 DODGE SHADOW

 Model Year
 1990
 Issued
 9-15-89
 Revised(●)

METRIC (U.S. Customary)

Estimated

				<u>Estimated</u>
	Optional Equipment Differential Mass (weight)*			
Equipment MASS, kg (weight, I			Remarks	
	Front	Rear	Total	
2.5 L (153.0 in.3) Turbo-	19	0	19	<u> </u>
charged Engine, EDT	(42)	0	(42)	
2.5 L (153.0 in ³⁾ Engine,	11	0	11	<u>.</u>
EDM	(24)	0	(24)	
2.2 L (135.0 in.3) Turbo-	26	0	26	_
charged Engine, EDR	(57)	0	(57)	
Automatic Transmission	16.8	-5.0	11.8	EDF Engine
	(37)	(-11)	(26)	
Automatic Transmission	9.1	-1.4	7.7	EDT Engine
	(20)	(-3)	(17)	
Automatic Transmission	13.1	-0.9	12.2	EDM Engine
	(29)	(-2)	(27)	
Air Conditioning	r Conditioning 26.3	-1.8	24.5	
	(58)	(-4)	(54)	
Sunroof	3.2	4.5	7.7	
	(7)	(10)	(17)	
Power Windows	4	3	7	2-Door models with power door locks
	(8)	(7)	(15)	
Power Windows	4	2	6	2-Door models without power door locks
	(8)	(6)	(14)	
Power Windows		4-Door models with power door locks		
FOWER WINDOWS	(12)	(10)	(22)	
Power Windows	4.1	4.1	8.2	4-Door models without power door locks
	(9)	(9)	(18)	
Conventional Spare Tire9 6.3 (-2) (14)		5.4	With P185/70R14 Tires Only	
			(12)	
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^{*} Also see Engine - General section for dressed engine mass (weight).