MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1989

Manufacturer	Vehicle Line	
CHRYSLER MOTORS CORPORATION	PLYMOUTH SUNDANCE	
Mailing Address		
DETROIT, MICHIGAN 48288	Issued 9-30-88	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

Motor Vehicle Manufacturers Association of the United States, Inc.

Blank Forms Provided by Technical Affairs Division

METRIC (U.S. Customary)

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NOTE:

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.
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-

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.
Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

 Vehicle Line
 PLYMOUTH SUNDANCE

 Model Year
 1989
 Issued
 9-30-88
 Revised (●)

METRIC (U.S. Customary)

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

Ø Vehicle Models

Model Description & Drive (FWD/RWD/AWD)*	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 (Highline) 2 - Door Hatchback FWD	Sept. 1988	PH24	5 (2/3)	52 (115)
4 - Door Hatchback FWD		PH44	5 (2/3)	52 (115)
Sundance (Lowline) 2 - Door Hatchback FWD	NA	PL24	5 (2/3)	52 (115)
4 - Door Hatchback FWD		PL44	5 (2/3)	52 (115)
		·		

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

Vehicle Line	ne PLYMOUTH SUNDANCE				
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Power Teams (Indicate whether standard or optional)
SAE J1349 Net bhp (brake horsepower) and net torque corrected to 25°C (77 °F) and 100 kPa (29.61 in. Hg) atmospheric pressure.

			ENC	SINE			E x h		
SERIES AVAILABILITY	Code	Displ. Liters (in ³)	Induction (FI, Carb/ bbl, etc.)	Compr. Ratio	SAE ne Power kW (bhp)	t at RPM Torque N • m (lb. ft.)	a u s t S/D*	TRANSMISSION/ TRANSAXLE	AXLE RATIO (std. first) (a)
Standard - L & H	EDF	2.2L (135)	EFI	9.5	69 (93) @ 4800	165 (122) @ 3200	s	Manual 5-speed Automatic	2.51
Optional - H NA - L	EDM	2.5L (153)	EFI	9.0	75 (100) @	183 (135) @	S	Manual 5-speed	2.51
Optional - H NA - L	EDT	2.5L	MP!	7.8	4800 112 (150)	2800 244 (180)	S	Automatic Manual 5-speed	3.02 2.51
NA-L		(153)	Turbo		@ 4800	@ 2000		Automatic	3.02

^{*}Single/dual

⁽a) Overall top gear ratio

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ndel Year	1020	Issued

METRIC (U.S. Customary)

Engine Description/Carb.

2.2L (135.0 in³) EFI, EDF

Revised (•)

ENGINE - GENERAL

Engine Code

Type & description (inline, V, angle, flat, location, front, mid, rear transverse, longitudinal, sohc,dohc, ohv, hemi, wedge, pre-camber, etc.)

Four cylinder, in-line, SOHC, canted, front, transverse

transverse, long ohv, hemi, wed	itudinal, sohc,dohc, ge, pre-camber, etc.)	Tour cymiaer, in mie, some, cantag, mong a and core
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 n	naterial & mass kg (lbs.) (machined)	Cast Iron 39.51 (87.1)
Cylinder block o	leck height	237.8 (9.36)
Cylinder block l	ength	418 (16.46)
Deck clearance (above or belov		0.00
Cylinder head n	naterial & mass kg (lbs.)	Aluminum 9.71 (21.4)
Cylinder head v		48.5 to 51.5
Cylinder liner material		N.A.
Head gasket thickness (compressed)		1.78 (.070)
Minimum comb	oustion chamber n ³)	65.31
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 (ibs.)]**	Aluminum 2.58' (5.7)
Exhaust manifo	ld material & mass [kg (lbs.)]**	Cast Iron 6.23 (13.7)
Fuel required, u	nleaded, diesel, etc.	Unleaded regular
Fuel antiknock	index (R + M) ÷ 2	87 or higher
Ø	Number	3
Engine mounts	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.	Natural Rubber
	Added isolation (sub-frame, crossmember, etc.)	None
Total dressed e	ngine mass (wt) dry***	141.68 (312.4)

Engine - Pistons

•	_
Material & mass, q	
iviateriai & mass. c	
(weight, oz.) - piston only	

Aluminum 445 (15.7)

Engine - Camshaft

Location		Overhead	
Material & mass kg (weight, lbs.)		Post-hardened nodular iron	
		2.92 (6.4)	
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.

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Vehicle Line PLYMOUTH SUNDANCE 9-30-88 1989 Issued Revised (*) Model Year

Engine	Description/Carb.
Engino	Code

2.5L (153.0 in³) EFI, EDM

2.5L (153.0 in3) EFI Turbo I, EDT

Type & description (inline, V, angle, flat, location, front, mid, rear transverse, longitudinal, sohc,dohc, ohv, hemi, wedge, pre-camber, etc.)		Four cylinder,		
		front, tr	ansverse	
Manufacturer		Chr	ysler	
No. of cylinders			4	
Bore		. 87.5	(3.44)	
Stroke			(4.09)	
Bore Spacing (C	/L to C/L)		(3.78)	
	naterial & mass kg (lbs.) (machined)		39.50 (87.1)	
Cylinder block d			(9.36)	
Cylinder block le	ength	418 (16.46)	
Deck clearance (above or below		0.00	0.009 (above)	
Cylinder head m	naterial & mass kg (lbs.)	Aluminum 9.71 (21.4)	Aluminum 9.75 (21.5)	
Cylinder head volume (cm³)		48.94 t	o 51.94	
Cylinder liner material		N.A.		
Head gasket thickness (compressed)		1.78 (0.070)		
Minimum combustion chamber total volume (cm³)		73.815	92.24	
Cyl. no. system L. Bank (front to rear)* R. Bank		R to L as installed - 1, 2, 3, 4		
		••		
Firing order		1, 3	, 4, 2	
Intake manifold	d material & mass [kg (lbs.)]**	Aluminum 2.58 (5.7)	Aluminum 5.67 (12.5)	
	ld material & mass (kg (lbs.)]**	Cast Iron 6.23 (13.7)	Cast iron 3.99 (8.8)	
Fuel required, u	inleaded, diesel, etc.	Regular unleaded	Premium unleaded	
Fuel antiknock	index (R + M) ÷ 2	87 octane or higher	recommend 91 or higher accept 87 or higher	
Ø	Number	3		
Engine Material and type (elastomeric, hydroelastic, hydraulic damper, etc.) Added isolation (sub-frame, crossmember, etc.)		Natural Rubber		
		Nor	ne	
Total dressed er	ngine mass (wt) dry***	150.93 (332.8)	156.33 (344.7)	
Engine - Pist				
Material & mass		Aluminum	Aluminum	
	s, g siston only	318(11.2)	364 (12.7)	

Engine - Camshaft

Location		Overhead		
Material & mass kg (weight, lbs.)		Post-hardened nodular iron		
		2.92 (6.4)		
Drive type	Chain/belt	Belt		
Dive type	Width/pitch	23.8/9.52 (0.937/0.375)		
	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

^{***} 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.

MVMA Specifications Form Vehicle Line PLYMOUTH SUNDANCE 9-30-88 1989 Revised (*) Model Year issued METRIC (U.S. Customary) 2.5L(153.0in3) 2.2L (135.0in3) 2.5L(153.0in³) Engine Description/Carb. EFI, EDM MPI Turbo, EDT EFI, EDF **Engine Code Engine - Valve System** Std. Hydraulic lifters (std., opt., n.a.) 4/4 Valves Number intake/exhaust 40.6 / 35.4 (1.60 / 1.39) Head O.D. intake/exhaust Engine - Connecting Rods Forged steel 0.69 (1.52) Material & Mass [kg., (weight lbs.)]* Forged steel 0.65 (1.43) 151 (5.94) Ø Length (axes ¢ to ¢) mm **Engine - Crankshaft** Nodular iron 15.19 (33.5) Forged steel 16.52 (36.4) Material & Mass [kg., (weight lbs.)]* Three End thrust taken by bearing (no.) 487.5 (19.2) / 5 479 (18.9) / 5 Length & number of main bearings One piece Seal (material, one, Front One piece two piece design, etc.) Rear **Engine - Lubrication System** 172 - 552 (25-80) @ 3000/Fully warmed Normal oil pressure [kPa (psi) at eng. rpm] Stationary Type of intake (floating, stationary) **Full flow** Oil filter system (full flow, part, other) 3.8 (4) Capacity of c/case, less filter-refill-L (qt.) **Engine - Diesel Information** Diesel engine manufacturer Glow plug, current drain at 0° F Injector Type Opening pres.[kPa (psi)] nozzie Pre-chamber design Manufacturer Fuel inj. Type pump Fuel inj. pump drive (belt, chain, gear) Supplementary vacuum source (type) Fuel heater (yes/no) Water separator description (std., opt.) Turbo manufacturer Oil cooler type (oil to engine coolant; oil to ambient air) Oil filter Engine - Intake System M.H.I. Turbo charger - Manufacturer

* Finished State

Intercooler

Super charger - manufacturer

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Vehicle Line __PLYMOUTH SUNDANCE

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METRIC (U.S. Customary)

2.2L (135.0 in³) EFI, EDF 2.5 L (153.0 IN.3) EFI, EDM 2.5L(153.0 in³) MPI Turbo EDT

Engine Description/Carb. Engine Code

W/Q A/C W A/C

	Cooling System overy system (std., opt., n.a.)		Stan	dard		
Coolant fill location (rad, bottle)		Bottle				
	p relief valve pressure [kPa (psi)]	96-124(14-18)				
irculation Type (choke, bypass)			Choke, Pelle	et Operated		
	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-Gr	oove Belt		
pump	Bearing type		Integral Ba	all Bearing		
• •	Impeller material			eel		
	Housing material			uminum		
By-pass rec	irculation [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 jackets full length of cyl. (yes, no)			Υ	es		
Water all around cylinder (yes, no)			No			
Water jackets open at head face (yes, no)		No.				
Std. A/C, HD		standard	A/C	Ali		
	Type (cross-flow, etc.)	Cross Flow				
	Construction (fin & tube	Tube & fin mech.				
Radiator	mechanical, braze, etc.)	2-row (b)		in Spacer, Soldered, 1 Row		
core	Material, mass [kg (wgt.lbs.)] (a)	aluminum (c)	luminum (c) Copper/Brass 4.12(9.1) Auto. / 3.55(7.8)			
	Width		533	(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)		18 Man. / 19 Auto.		
Radiator er	nd tank material	Nylon 66				
	Std., elec., opt.		Ele	ctric		
	Number of blades & type					
	(flex, solid, material)	2-Blade metal		5-blade plastic		
	Diameter & projected width	360(14.2) / 46(1.8) 367 (14.5) / 42(1.65)				
	Ratio (fan to crankshaft rev.)					
Fan	Fan cutout type	Electric Motor				
	Drive type (direct, remote)					
	RPM at idle (elec.)	1150	1720	2150		
	Motor rating (wattage) (elec.)	44	130	180		
	Motor switch (type & location) (elec.)			er Box & AC clutch		
	Switch point (temp., pressure) (elec.)	99°C(210°F)<40 mph; 110°C(230°F)>40 mph 99°C(210°F)<40 mph; 104°C(220°F)				
	Fan shroud (material)	Me	tal	Plastic		

⁽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

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Model Year 1989

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Engine Description/Carb.
Engine Code

2.2L (135.0 in³) EFI, EDF

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

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

Induction type: carburetor, fuel Electronic fuel injection injection system, etc. Bosch/Holley Holley Holley Manufacturer Ø Carburetor no. of barrels Idle A/F mix. Throttle body (1) Intake ports (4) Point of injection Pulse Constant, pulse, flow Fuel Electronic Control (electronic, mech.) Injection 379.6 (55.1) 100 (14.5) System pressure [kPa (psi)] 950 850 Idle spd:-rpm Manual (spec. neutral 900 / Neutral 850 / Neutral Automatic or drive and propane if used) Intake manifold heat control (exhaust None Water or water thermostatic or fixed) Oil wetted paper element Air cleaner type Paper element; Stainless steel canister; Inline underbody Fuel filter (type/location) Electric Ø Type (elec. or mech.) in fuel tank Location (eng., tank) Fuel N.A. Pressure range [kPa (psi)] pump Ø Flow rate at regulated pressure 77-154 (20-41) @ 12V & 15psi 96-188(25-50)@12V & 55psi (L (gal) / hr @ kPa (psi)) **Fuel Tank** 53 (14) Capacity refill L (gallons) Forward of axle Location (describe) Galvanized or terne plated strap to floor pan Attachment 10.8 (23.8) (a) 10.21 (22.5) (a) Material & Mass [kg (weight lbs.)] Right rear quarter panel, lead dipped steel tube Filler Location & material Rubber grommet pipe Connection to tank Fuel line (material) Duplex coated steel Fuel resistant rubber Fuel hose (material) **Duplex coated steel** Return line (material) Duplex coated steel Vapor line (marterial) Extended Opt., n.a. range Capacity [L (gallons)] tank Location & material Attachment Opt., n.a. Capacity (L (gallons)) Location & material Auxiliary tank Attachment Selector switch or valve Separate fill

(a) Terne plated steel

Vehicle Line PLYMOUTH SUNDANCE

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	Model Year	1989	Issued	9-30-88	Revised (•)

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Engine Description/Carb. **Engine Code**

2.2L (135.0in3) EFI, EDF

2.5L (153.0 in³) EFI, EDM

	Type (air injection, engine			(a) (b)			
	modificatio	ns, other)					
		Pump or pulse		pulse (b)	none		
] [Driven by		exhaust pressure (b)	<u></u>		
	Air	Air distributi	on	source - air cleaner	-		
	injection	(head, manif	old, etc.)	single point (b)			
		Point of entry		catalytic converter ^(b)			
		Type (contro	lled flow,	exhaust back pres	sure-controlled flow		
	Exhaust	open orifice,	other)				
xhaust	Gas	Exhaust sour	ce	exhaust manifold	manifold branch		
mission	Recirc-	Point of exha	iust injection	intake	manifold		
ontrol	ulation (spacer, carburetor,		uretor,				
		manifold, other)					
		Туре		3 - Way ^(g)	3 - way		
	Catalytic	Number of		one			
	Converter	Location(s)		below exh	aust manifold		
		Volume (L(in	.3)]	1.23 + 0.9 (75 + 55) ^(d)	1.23 + 0.9 (75 + 55)		
		Substrate type Noble metal type			nolithic		
<u> </u>					ium; 0.74L: Platinum / Palladium		
	Noble metal			1.23L: 0.0006/0.00009	1.23L: 0.0006/0.00009 except Cal. ATX		
	concentration (g/cm³)			0.9L: 0.0006/0.00007 ^(e)	0.0006/0.00018 - ATX-Cal. (e)(f)		
	Type (ventilates to atmosphere,		phere,	closed induction system			
	induction sy	induction system, other)					
rankcase	Energy sou	rce (manifold	·	manifold vacuum			
nission	vacuum, ca	rburetor, othe	r)				
ontrol	Discharges	(to intake		throi	tle body		
	maifold, other) Air inlet (breather cap, other)						
				air cleaner			
vapora-	Vapor vent	por vented to (crank- Fuel tank		canister			
ve emis-	case, canist		Carburetor				
on contro		ige provision			canister		
lec tronic	Closed loop			yes - hot engine			
ystem	Open loop	(yes/no)		yes - co	yes - cold engine		

Carina Eubanat Sustana

Type (single, single with cross-over,		single	
dual, other)			
Muffler no.	. & type (reverse flow, straight thru,	one reverse flow	
separate resonator) Material & mass (kg. (weight ibs.)]]		stainless steel 5.05 (11.1)	
Resonator no. & type		none	
Exhaust	Branch o. d., wall thickness	50.8 x 1.4 (2.00 x 0.055)	
pipe	Main o. d., wall thickness	50.8 x 1.4 (2.00 x 0.055)	
	Material & mass [kg. (weight lbs.)]	Stainless Steel 6.08(13.4), 49 states with manual trans. (g) (h)	
intermed-	o. d., & wall thickness	47.8 x 1.2 (1.88 x 0.047)	
iate pipe	Material & mass [kg. (weight lbs.)]	stainless steel 2.79 (6.2)	
Tail	o. d., & wall thickness	47.8 x 1.1 (1.88 x 0.043)	
pipe	Material & mass [kg. (weight lbs.)]	stainless steel (see muffler assembly	

(a) exhaust gas recirculation, engine modifications, catalytic converter

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⁽b) aspirator added, 49 states with manual transmission only (c) 3 Way + oxidation, 49 states with manual transmission only (d) 1.23 (75) 3WC + 0.74 ox., 49 states with manual transmission only (e) 0.74L: 0.00085 (f) 0.9L: 0.0006/0.00007 except ATX-Calif. / 0.0006/0.00018 - ATX-Calif.

⁽g) 5.95 (13.1) all others (h) Includes 1.56kg (3.44 lbs), 49 states with manual trans only; 1.69kg(3.72lbs), all others - substrate and mat mount

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Vehicle Line P	LTIVIOUI	U POMON	AINCE		
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Engine	Description/Carb.
Engine	Code

2.5L (153.0 in ³)	
Turbo I, EDT	

Engine Code			Turbo I, EDT		
Vehicle Emission Control					
Vehicle Er			<u> </u>	Engine modifications, catalytic converter	
	Type (air injection, engine		ę	Exhaust gas recirculation - California only	
	modifications, other)				
	Pump or pulse			none	
	Driven by				
	Air	Air distribut	=		
	injection	(head, man			
	_	Point of entry			
	Type (controlled flow,			exhaust back pressure-controlled flow - Calif. only	
	Exhaust	open orifice	, other)		
xhaust	Gas	Exhaust sou		turbine housing outlet	
mission	Recirc-	Point of exh	aust injection	intake manifold	
Control	ulation	(spacer, carl	ouretor,		
		manifold, o	ther)		
		Туре		3 - way	
	Catalytic	Number of		one	
	Converter	Location(s)		under floor	
	Volume (L(in.3))		n. ³)]	1.80 (110)	
		Substrate type		monolithic	
Ø	Noble metal type		l type	Platinum / Rhodium	
	Noble metal			0.0006/0.00011 - Federal	
	concentration (g/cm³)		on (g/cm³)	0.00085/0.00085 - Calif.	
-	Type (vent	lates to atmo		closed induction system	
	induction system, other)				
Crankcase		rce (manifold		Intake manifold vacuum	
Emission		rburetor, oth	er)		
Control		scharges (to intake		throttle body	
				·	
	Air inlet (breather cap, other)		ther)	air cleaner	
Evapora-			Fuel tank	canister	
tive emis-	case, canist	-	Carburetor	**	
-		age provision		canister	
Electronic				yes - hot engine	
system	Closed loop (yes/no) Open loop (yes/no)			yes - cold engine	
	xhaust Sy			Alexander and a second a second and a second a second and	
• -	, single with	cross-over,	1	single	
dual, other)					
Muffler no. & type (reverse flow, straight thru,			one reverse flow		
separate re	sonator) Ma	terial & mass [kg. (weight lbs.)]]	stainless steel 6.16 (13.6)	
Resonatorin				none	
Exhaust	Branch o. c	l., wall thickne	ess	N.A.	
pipe	Main o. d. ,	wall thickness		63.5 x 1.4 (2.5 x 0.55)	
	Material &	mass [kg. (we	ight (bs.)]	Stainless Steel 1.97 (4.3)	
	1			ET 2 (C2 E 4 4 /2 3/2 E 4 A CE)	

Intermed-

iate pipe

Tail

pipe

Material & mass (kg. (weight lbs.))

Material & mass [kg. (weight lbs.)]

o. d., & wall thickness

o. d., & wall thickness

57.2 / 63.5 x 1.4 (2.2/2.5 x 0.55)

stainless steel 6.00 (13.2)

50.8 x 1.1(12.00 x .043)

stainless steel (see muffler assembly

Vehicle Line_	<u>PLYMOU</u>	TH SUNDANCE		
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Engine Desc Engine Cod	cription/Carb. e		2.2L (135.0 in ³) / EFI EDF		
Transmis	eione/Transay	de (Std., Opt.,N	A)		
	peed (manufactu		N.A.		
	peed (manufactu		N.A.		
	peed manufactu		Std./Chrysler-New Process Gear/U.S.		
	(manufacturer/co		Opt./Chrysler/U.S.		
		facturer/country)	N.A.		
Manual T	ransmission/	<u>Transaxle</u>			
Number of	forward speeds*		5		
	1st		3.29		
	2nd		2.08		
	3rd		1.45		
Gear	4th		1.04		
ratios	5th		0.72		
	Reverse		3.14		
	ıs meshing (speci	fy gears)	All Forward Gears		
Shift lever I			Floor		
	mat'l. & mass kg.		319 Aluminum Die Cast 43.99 (97.0) 2.3L (4.81pt.)		
Lubricant	Capacity (L (pt.		API SF/CC SAE 5W-30		
Type recommended		nded	API 3I/CC 3AC 5VV-30		
Ø		•			
		•			
Clutch (N	lanuai Transn	nission)			
Clutch man		1113310117	Luk		
	(dry, wet; single	multiple disc)	Dry Disc, single		
	draulic,cable,ro		Cable		
	effort (nom.	Depressed	80 (18)		
•	, new) N (lbs.)	Released	120 (27)		
	ng, power/percen	it, nominal)	None		
	re plate springs		Belleville		
Total spring	load (nominal,	new) N (lbs.)	4400 (989)		
	Facing mfgr. &	material coding	Textar 314		
	Facing materia	1 & construction	Woven Asbestos		
	Rivets per facir		16		
	Outside x insid	e dia. (nominal)	215 x 154 (8.46 x 6.06)		
	Total eff. area	[cm² (in²)]	353.6 (54.8)		
Clutch	h Thickness (pressure plate side/				
facing	fly wheel side		3.15/3.15 (0.124/0.124)		
	Rivet depth (pr	essure plate side/			
	fly wheel side)		1.2/1.2 (0.047/0.047) min.		
	Engagement c	ushion method	Wave spring segments		
Release bea	aring type & met	thod lub.	Angular contact ball bearing permanently lubed with grease		
Torsional damping method, springs, hysteresis		, springs, hysteresis	Coil springs and friction fiber washers		

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

METRIC (U.S. Customary)

Vehicle Line	PLYMO	UTH SUNDANCE	
 Model Year	1989	Issued 9-30-88	Revised(•)

Engine Description/Carb. **Engine Code**

2.5L (153.0 in³) / EFI **EDM**

2.5L (153.0 in³) / TURBO I, MPI **EDT**

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

Helistinssions Helisexic (Sta.; Optifiera)	
Manual 3-speed (manufacturer/country)	N.A
Manual 4-speed (manufacturer/country)	N.A
Manual 5-speed manufacturer/country)	Std./Chrysler New Process Gear/U.S.
Automatic (manufacturer/country)	Opt./Chrysler/U.S.
Automatic overdrive (manufacturer/country)	N.A.

Manual Transmission/Transaxle

	of forward speeds*	5	
	1st	3.29	
	2nd	2.08	
	3rd	1.45	
Gear	4th	1.04	
ratios	5th	0.72	
	Reverse	3.14	
Synchrono	ous meshing (specify gears)	All Forward Gears	
Shift lever		Floor	
	e mat'l. & mass kg.(lbs.)*	43.99 (97.0) 319 Aluminum Die Cast	
Lubricant		2.3 (4.81)	
	Type recommended	API SF/CC SAE SW-30	
Ø			

Clutch (Manual Transmission)

Clutch ma	lutch manufacturer		Fichtel & Sachs		
Clutch typ	e (dry, wet; singl	e,multiple disc)	Dry Disc, single		
	ydraulic,cable,ro		Cable		
	i effort (nom.	Depressed	100 (23)	116 (26)	
spring loa	d, new) N (lbs.)	Released	112 (25)	125 (28)	
Assist (spr	ing, power/perce	nt, nominal)	Nor	ne	
Type pres	sure plate spring:	s	Belle	ville	
Total sprir	ng load (nominal,	, new) N (lbs.)	4700 (1057)	5750 (1292)	
	Facing mfgr. & material coding		Textar 314		
	Facing material & construction		Woven Asbestos		
	Rivets per facing		16		
	Outside x inside dia. (nominal)		228 x 150 (8.98 x 5.91)		
	Total eff. area [cm² (in²)]		438.0 (67.9)		
Clutch facing	Thickness (pre-	essure plate side/	3.4/3.4 (0.13/0.13)		
racing		oressure plate side/			
	fly wheel side)		1.1/1.1 (0.043/0.043) min.		
	Engagement cushion method		Wave spring segments		
Release b	earing type & me	ethod lub.	Angular contact ball bearing permanently lubed with grease		
		d, springs, hysteresis	Coil springs and friction fiber washers		

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

METRIC (U.S. Customary)

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1989 Issued 9-30-88 Revised (*)

Engine Description/Carb.

Engine Code

2.2L (135.0in³)/EDF EDF 2.5L (153.0 in³)/EFI EDM 2.5L (153.0 in³)/MPI Turbo EDT

Automatic Transmission/Transaxle

Trade name		Torqueflite		
Type and sp	ecial features (describe)	Electronic lock-up torque converter with planetary gear transmission and par	Electronic lock-up torque converter with automatically-operated planetary gear transmission and parallel axis final drive	
Selector	Location	Floor mounted		
	Ltr./No. designation	PRND21		
	1st	2.69		
	2nd	1.55		
Gear	3rd	1.00		
ratios	4th	·		
	Reverse	2.10		
Max. upshif	t speed-drive range [km/h (mph)]	113 (70)	129 (80)	
	wn speed-drive range [km/h (mph)]	105 (65)	119 (74)	
Min. overdr	ve speed [km/h (mph)]			
	Number of elements	Three		
forque	Max. ratio at stall	2.10:1	2.00 : 1	
converter	Type of cooling (air, liquid)	Liquid		
	Nominal diameter	241 (9.5)		
Ø	Capacity factor "K"	210	260	
Lubricant	Capacity [refill L (pt.)]	8.40 (17.75) ^(a)		
	Type recommended	Mopar ATF Plus (Auto. trans. flui		
Oil cooler (s	td,opt,n.a.,internal,external,air,liquid)	Std. / in radiator, lic		
	sion case material & mass kg. (lbs.)**	57.09 (125.9)	57.16 (126.0)	

Axle or Front Wheel Drive Unit

Type (front,	rear)	Front	
Description		Transaxle	
Limited slip	differential (type)	N.A.	
Drive pinior		**	
Drive pinior		Helical	
	rential pinions	Two	
Pinion / diffe	erential adjustment (shim, other)	••	
Pinion /differential bearing adjustment(shim, other)		Shim	
Driving whe		Double row ball	
	Capacity [L (pt.)]	see transaxle	-
Lubricant	Type recommended	see transaxle	
			··· · · · ·

Axle or Transaxle Ratio and Tooth Combinations

Axle ratio (c	or overall top gear ratio)	2.51 (manual trans.)	3.02 (auto. trans.)	
No. of	Pinion	14	21	
teeth	Ring gear or gear	49	60	
Ring gear o.d.		197.46 (7.77)	184.5 (7.26)	
Transaxle	Transfer gear ratio		1.06	
	Final drive ratio	3.50	2.86	

^{*} Input speed ÷ √ torque

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

⁽a) Torque converter, Transmission and Differential

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

Vehicle Line PLYMOUTH SUNDANCE

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adal Vasa	1020	iccuad

METRIC (U.S. Customary)

2.5L (153.0 in3) EFI, EDM

Revised (*)

Engine Description/Carb. **Engine Code**

2.2L (135.0 in³) EFI, EDF

Manufactur	er and number i	sed		Two
	ht, solid bar,	Left	Solid bar	
tubular, etc.		Right		Tube
Ø	Manual trans	axle Left	(a)	(b)
Outer		Right	(c)	(d)
diam.x	Automatic tra		(a)	(b)
length*x		Right	(c)	(d)
wall	Optional tran			••
thickness	. ,	Right		
	Туре			
Slip				
yoke	Number of te	eth		••
•				
	Spline o.d.			
	Make and mi	g. no. Inner	(e)	GKN-EUR: GI82 or SSG: #19
		Outer	(f)	GKN-EUR: 98LAC or SSG: #2
	Number used		Two	
	Type, size, pl	unge inner	Tripod plunge	
		Outer	Rzeppa - fixed	
Universal	Attach (u-bo	t, clamp, etc.)		••
joints	1	Type (plain,		
	Bearing	anti-friction)		
		Lubrication		
		(fitting, prepack)		Prepack
Drive taken	through (torque	e tube,		
arms or spri	ngs)			
Torque take	en through (torq	ue tube,		
arms or spri	ngs)			

Ø All Wheel / 4 Wheel Drive

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

- (a) GKN-US: 24.2 x 333.2 (0.95 x 13.12) or SSG: 23.9 x 327.5 (0.94 x 12.89) or GKN EUR: 22.9 x 334.5 (0.90 x 13.17)
- (b) GKN EUR: 22.9 x 331.4 (0.90 x 13.05) or SSG: 23.9 x 327.5 (0.94 x 12.98) or GKN-EUR: 22.9 x 325.9 (0.94 x 12.83)
- (c) GKN-US: 40.5 x 603.3 x 3.72 (1.59 x 23.75 x 0.146) or SSG: 38.0 x 591.1 x 5.0 (1.50 x 23.27 x 0.197) or GKN-EUR: 40.5 x 600.8 x 2.7 (1.59 x 23.65 x
- (d) GKN-EUR: 40.5 x 597.6 (1.59 x 23.5) or SSG: 38.0 x 591.1 x 5.0 (1.50 x 23.27 x 0.197) or GKN-EUR: 40.5 x 591.6 (1.59 x 23.3)
- (e) GKN-EUR: G169 or GKN-US C-2000 or SSG: #19 (f) GKN-EUR: 92AC or GKN-US: C-2000 or SSG: #23

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

Vehicle Line PLYMOUTH SUNDANCE **MVMA Specifications Form** 9-30-88 Revised (*) 1989 Model Year Issued **METRIC (U.S. Customary)** 2.5L (153.0 in³) Engine Description/Carb. Turbo I, EDT **Engine Code Axle Shafts - Front Wheel Drive** Two Manufacturer and number used Solid bar Left Type (straight, solid bar, Solid bar Tube Right tubular, etc.) (a) Manual transaxle Left (a) Right Outer (a) diam.x Automatic transaxle Left (b) Right length*x wall Optional transaxle Left Right thickness Type Slip Number of teeth yoke Spline o.d. GKN-EUR: G182 or SSG: #19 Make and mfg. no. Inner GKN-EUR: 98 LAC or SSG: #23 Outer Two Number used Tripod plunge Inner Type, size, plunge Rzeppa - fixed Outer Attach (u-bolt, clamp, etc.) Universal Type (plain, joints anti-friction) Bearing Lubrication Prepack (fitting, prepack) Drive taken through (torque tube, arms or springs) Torque taken through (torque tube, arms or springs) Ø All Wheel / 4 Wheel Drive Description and type (part time, full time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.) Manufacturer Transfer case Type Model Low range gear ratio

Type (bevel, planetary, w or w/o

viscous bias, torsen, etc.)
Torque split (% front/rear)

Center differential

System disconnect (describe)

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

⁽a) GKN-EUR: 25.0 x 325.9 (0.98 x 12.83) or SSG: 23.9 x 327.5 (0.94 x 12.98)

⁽b) GKN-EUR: 40.5 x 591.6 (1.59 x 23.3) or SSG: 38.0 x 591.1 (1.50 x 23.27)

MVMA Specifications Form Vehicle Line PLYMOUTH SUNDANCE 9-30-88 Revised (•) Model Year 1989 Issued METRIC (U.S. Customary) All Engine Description/Carb. SDC Engine Code Ø Suspension - General Standard / optional / not avail. Manual / automatic control Type (air / hydraulic) Car Primary / assist spring leveling. Rear only / 4 wheel leveling Single / dual rate spring Single / dual ride heights Provision for jacking Standard / optional / not avail. Manual / automatic control Number of damping rates Shock Type of actuation (manual/ absorber electric motor / air, etc.) damping controls sensors Lateral acceleration Deceleration Acclereration Road surface Direct - Hydraulic Type Shock Monroe absorber Make Rear: 30.2 (1.19) Front: 32 (1.26) (front & Piston diameter Front: 20 (0.79) Rear: 12.7 (0.50) rear) Rod diameter Ø Suspension - Front Type & description Iso-strut 67.8 (2.67) Travel* Full jounce 107.2 (4.22) Full rebound Coil, AISI 5160 H Chromium steel Type (coil, leaf, other) & material Compression: Rubber Insulators (type & material) Spring Size (coil design height & i.d., 216 x 152 I.D. (8.5 x 6.0 I.D.) bar length x dia.) 14.9 (85) Spring rate [N/mm (lb./in.)] 18.4 (105) Rate at wheel [N/mm (lb./in.)] Linkless Stabilizer Type (link, linkless, frameless) AISI 1090 Spring steel 27.0 (1.06) Material & bar diameter Ø Suspension - Rear Trailing flex-arm with track bar Type & description 40 (1.57) Travel* Full jounce 151 (5.94) Full rebound Coil: AISI 5160 H Chromium steel Type (coil, leaf, other) & material Size (length x width, coil design 229 x 102 I.D. (9.0 x 4.01) height & i.d., bar length & dia.) 28 (160) Spring rate [N/mm (lb./in.)] Spring Rate at wheel [N/mm (lb./in.)] 17.8 (102) Curb position Compression: Rubber Insulators (type & material) No. of leaves Shackle (comp. or tens.) Frameless ERW Tube Stabilizer Type (link, linkless, frameless) Material & bar diameter 80 KSI HSLA steel 28.6 (1.13) O.D. Channel

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

Vahicle Line PLYMOUTH SUNDANCE

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Model Year	1989	Issued	9-30-88	Revised (●)	

METRIC (U.S. Customary)

Body Type And Or
Engine Displacement

 All	

C Dl-s	-					
	s - Service					
Description	1				Four-wheel hydraulic-actuated system	
		T c/	disc or drum)		Disc	
Manufactu				_	Drum	
	e type (std., opt., n.a.) Rear (disc or drum) ing type (proportion, delay, metering, other)			Dual proportioning valve		
			tering, other)		Standard Standard	
	ke (std., opt., n.		1 1		Vacuum, single or tandem	
Booster typ	oe (remote, inte			· · · · · · · · · · · · · · · · · · ·	Intake manifold or throttle body base	
	Source (inline				intake manifold of throttle body base	
Vacuum	Reservoir (vo			_	**	
			driven, belt driven)			
Traction	Operational					
control		•	on (electronic, mech	.)		
	Front/rear (st		a.)			
	Manufacture					
Anti-lock	Type (electro	nic, mech	.)			
device	Number sens	ors or circi	uits			
	Number anti	lock hydr	aulic circuits			
	Integral or ac	id-on syste	<u>em</u>			
	Yaw control	(yes, no)				
	Hydraulic power source (elec., vac., mtr., pwr., strg.)		vr., strg.)			
Effective a	Effective area (cm²(in.²))* (F/R)			410.64 (63.65)		
Gross lining	Gross lining area (cm²(in,²))**(F/R)			438.98 (68.04)		
Swept area	wept area (cm²(in.²))***(F/R)			1659.9 (257.3)		
	Outerworkin	g diamete	er	F/R	Front: 256.0 (10.08)	
Rotor	Inner workin	g diamete	er	F/R	Front: 160.0 (6.30)	
	Thickness			F/R	Front: 24.0 (0.945)	
	Material Typ	Material Type (vented/solid)		F/R	Front: damped cast iron, vented	
Drum		eter & Width F/R		F/R	Rear: 200 (7.87) x 37.62 (1.48)	
	Type & Material F/R		F/R	Rear: Cast composite		
Wheel cyli					Front: 54 (2.13); Rear: 15.87 (0.625)	
Master cyli		Bore/s	troke	F/R	21.0 (0.827) / 32.79 (1.291)	
Pedal arc r					3.28 : 1	
		lb.) pedal	load [kPa (psi)]		Single: 9584 (1390) Tandem: 12750 (1850)	
Lining clea				F/R	No major adjustment	
	1	Bonde	d or riveted (rivets/se	ea.)	Riveted, 6 / shoe	
		Rivets			3.57 (0.14) dia. x 7.57 (0.3)	
			acturer		Bendix	
	Front		code *****		8X-JD-EE	
	Wheel	Materi			Molded metallic	
	1	****	Primary or outboa	rd	4764 x 11.34 (7.38 x 0.446)	
	}	Size	Secondary or inboa		4280 x 12.34 (6.36 x 0.486)	
Brako	l }		hickness (no lining)	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	Outer: 4.83 (0.190); Inner: 5.68 (0.224)	
Brake	 		d or riveted (rivets/se) n	Riveted, 10/shoe	
lining	}		acturer	· y · /	Bendix	
			code ****		BX-MO-FF	
	Rear	-			Rolled asbestos	
	Wheel	Mater	,	اد.	198.56 x 32.5 x 6.65 (7.82 x 1.28 x 0.262)	
			Primary or outboa		198.56 x 32.5 x 6.65 (7.82 x 1.28 x 0.262)	
		Size Secondary or inboard		ard	2.17 (0.0854)	
	<u> </u>	3noe t	hickness (no lining)		2.17 (0.0034)	

Vehicle Line	PLYMOL	JTH SUNDANCE		
Model Year	1989	Issued 9-30-88	Revised (•)	

METRIC (U.S. Custoi	mary)
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Body Type Engine Dis	And/Or splacement		L - Series	H - Series
Tires An	d Wheels (Star	ndard)		
T	Size (load range,		P175/80 R 13, SL	P185/70 R 14,SL
İ		, steel, nylon, etc.)	Steel	radial
Ì	Inflation pres-	Front [kPa (psi)]		
Tires	sure (cold) for			(35)
	recommended	Rear (kPa (psi)]		·
	max. vehicle load		240	(35)
Ī	Rev./mile - at 70 l	cm/h (45 mph)	870	862
	Type & material			el disc
ľ	Rim (size & flange	e type)	13 x 5.0JB	14 x 5.5JJ
Wheels	Wheel offset			(1.6)
İ		Type (bolt & stud)		tud
	Attachment	Circle diameter		(3.94)
		Number & size		2 x 1.5mm
Ø	Tire and wheel		T115/70 D14 co	
Spare			14 x 4.0 T stee	el disc wheel
	Storage position	& location		
	(describe)		Horizontal - Rear floo	r pan under cargo floor
Tires An	d Wheels (Opt	ional)		•
	oad, range, ply)			P185/70 R 14, SL
	, radial, steel, nylo	n, etc.)		steel radial
	pe & material)	· · · · · · · · · · · · · · · · · · ·		Cast aluminum.
	flange, type and o	ffset)		14 x 5.5 JJ - 40 mm (1.6in)
	oad, range, ply)			P195/60R 15, SL
	, radial, steel, nylo	n, etc.)		steel radial
	pe & material)			cast aluminum
	flange type and of	ffset)		15 x 6.0JJ - 40 mm (1.6in)
	load range, ply)			
	s, radial, steel, nylo	in, etc.)		
	pe & material)			
	flange type and of	ffset)		
	load range, ply)			
	s, radial, steel, nylo	on, etc.)		
Wheel (ty	pe & material)			•
	flange type and of	ffset)	, , ,	
	and wheel (size)			· — — — — — — — — — — — — — — — — — — —
(If configu	uration is different	than road tire or	\ \	Same as road tire
	scribe optional spa			Same location
wheel loo	ation & storage po	osition)		as standard spare
	Parking		Foot operated ped	al/hand_release lever
Type of co				finstrument panel
	of control			wheels
Operates			Kear	
if separate		l or external)	 	
from servi				
brakes	Lining size (le	ength x		

width x thickness)

Vehicle Line	PLYMOU	TH SUNDANCE		
Model Year	1989	Issued 9-30-88	Revised(*)	

METRIC (U.S. Customary)

-	Engine Description/Carb.			14" Tires	15" Tires	
Engine Code	ngine Code					
Steering						
Manual (std.,					I.A.	
Power Steering	ng (std., opt	t., n.a.)			td.	
Adjustable	Туре				rilt	
steering whe	el column	Manufacture			inaw	
(tilt, telescop		(Std., opt., n.	a.)		Opt.	
Wheel diame	ter**	Manual			I.A.	
(W9) SAE J11	00	Power			1 (15)	
Turning	Outside	Wall to wall				
diameter	front	Curb to curb	(l. & r.)	10.4 (34.0)	10.9 (35.7)	
m (ft.)	Inside	Wall to wall			<u> </u>	
	rear	Curb to curb	(l. & r.)			
Scrub Radius	* T			-7 (-0.28)	
		Туре				
Manual	Gear	Manufacture				
		Ratios	Gear			
			Overall			
		el turns (stop to stop)				
Ø		xial, elec., hyd.	., e <u>tc.)</u>		power gear	
	Manufact	turer			<u>R.W.</u>	
Power	1	Туре			integral power unit	
	Gear Ratio		Gear		nm / Rev.	
	<u></u>	<u> </u>	Overall		.2:1	
	Pump (dri				t, off crankshaft	
	no wheel	l turns (stop to	stop)	2.5	2.4	
	Туре			Rack & Pinion (Rod & bal	l directly attached to gear)	
Linkage	Location ((front or rear		1		
	of wheels	i, other)		Rear of wheels		
	Tie rods (d	one or two)		Two (tie rod inners integr	ral with rack & pinion gear)	
		n at camber (d	eq.)	1:	3.36	
Steering	Bearings		<u> </u>	Ball	pearing	
axis	(type)	Lower		Bal	l joint	
	'''	Thrust			bearing	
Steering spin	dle & ioint 1				lower ball joint	
		Inner bearing	9		: 37 / 40 (1.46 / 1.57) wide	
Wheel		Outer bearing				
spindle/hub	Tread (siz		-	M2:	2 x 1.5	
F	Bearing (t			Double row and	gular contact-ball	
	1 3 V	<u> </u>				

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

^{**}See page 21

Vehicle Line PLYMOUTH SUNDANCE

METRIC (U.S. Customary	TRIC	ETRIC (U.S. C	ustomary	ì
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Body Type And/Or Engine Displacement ΑII

Wheel Alignment

<u> </u>	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° ± 0.5°	
curb mass		Toe-in	+ 0.1° toe-in ± 0.3° (a)	
(wt.)	Periodic	Caster	**	
	M.V. in-	Camber	==	
	spection	Toe-in	-	
	Service	Camber (deg.)	-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.	Camber	**	
•	inspection	Toe-in	••	

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

Electrical - Instruments and Equipment

Speed-	Type (Analog, digital, std., opt.)	Magnetic torque drive	
ometer	Trip odometer (std., opt., n.a.)	Std.	
EGR mainten	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)		
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	
wiper	Blade length	457 (18)	
	Swept area [cm² (in²)]	5658 (877)	
Wind-	Type (standard)	Electric (arm mounted)	
shield	Type (optional)	Opt.	
washer	Fluid level indicator (light, audible)		
Rear window	wiper, wiper/washer (std., opt., n.a.)	N.A.	
Horn	Туре	Seashell	
	Number used	1	

⁽a) Measurements in degrees, not inches

METRIC (U.S. Customary)

Vehicle Line	PLYMO	UTH SUNDANCE		
Model Year	1989	Issued 9-30-88	Revised(+)	

Engine Description/Carb. Engine Code		2.2L(135.0 in ³) EFI, EDF	2.5L (153.0in ³) EFI Turbo, EDT	2.5L (153.0in ³) EFI, EDM			
Electrical	- Supply System						
Electrical	Manufacturer	De	co, Exide, Johnson Con	trols			
	Model, std., (opt.)		GRP 34				
	Voltage		12V				
Dathani	Amps at 0°F cold crank	400	50	00			
Battery	Minutes-reserve capacity	100	11				
		60	66				
	Amp/hrs 20 hr. rate		eft front fender side shi				
	Location	Nipponden		Bosch			
	Manufacturer	90 HS		90 RS			
	Rating (idle/max.rpm)	2.7:1		2.55 : 1			
Alternator	Ratio (alt. crank/rev.)	40 A		40 A			
	Output at idle (rpm, park)	40 A _		40 A			
	Optional (type & rating)			<u> </u>			
Regulator	Type	E	ngine control computer				
Electrical	- Starting System						
Start,motor	Current drain at 0°F	200 - 250 A 230 - 28					
Motor	Engagement type		Solenoid shift				
drive	Pinion engages	Front					
	from (front, rear)						
Flectrical	- Ignition System						
Туре	Electronic (std., opt., n.a.)		N.A.				
· ypc	Other (specify)	Engine control computer	w/ electronic spark adva	ance & voltage regulato			
	Make	UTC	Prestolite	Diamond			
Coil	Model	5226865	5227372	5227252			
2011	Current Engine stopped - A		3.0 A (for 3 seconds)	·			
	Engine idling - A		1.9 A				
	Make	Champion					
	Model		RN12YC	· · · · · · · · · · · · · · · · · · ·			
Saark	Thread (mm)	14 mm					
Spark	Tightening torque [N-m (lb,ft)]	28 (20)					
plug	-	0.9mm (0.035in)					
	Number per cylinder	One One					
Number per cylinder		Chrysler					
Distributor	Make Model	5226575 5226525 5226575					
	Iviodei	3420373	7220723	1			
Electrical	Suppression			<u> </u>			
Locations &		Resistor spark plugs; Resi Blower motor; Diode - A Suppression filter; Groun A/C evaporator valve to d Clutch relay	/C clutch, Horn relay, St d cable - Engine to dash	arter relay, wiper motor n, Engine mount,			

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1989 Issued 9-30-88 Revised(•)

METRIC (U.S. Customary)

Body Typ	e		All
Body	·		
Structure	,		•
Ø			Front: TPO fascia Ultra high strength steel reinforcement
Bumpers	vetem	•	Trond tro table conding to a condition
front - re	•		Rear: TPO fascia Ultra high strength steel reinforcement.
			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>	
Ø Body	- Miscellaneous	Information	
	inish (lacquer, ename		Enamel - Universal base coat / Clear coat
	Material & mass		18.55 (40.9)
Hood	Hinge location (fro	nt, rear)	Rear
	Type (counterbala	nce, prop)	Counterbalance, clockspring
	Release control (in	ternal, external)	Internal
Trunk	Material & mass		••
ti d	Type (counterbala		
		ntrol (elec., mech., n.a.)	45.05.(22.2)
Hatch-	Material & mass		15.06 (33.2)
back lid	Type (counterbala	· ·	Gas pressurized struts Mechanical
	· · · · · · · · · · · · · · · · · · ·	ntrol (elec., mech., n.a.)	
Taileata	Material & mass Type (drop, lift, do	os\	
Tailgate		ntrol (elec., mech., n.a.)	
Ventwin	dow control (crank,	Front	None
	pivot, power)	Rear	None
	Regulator type	Front	Manual & Electric arm & sector (P-24)
	pe, flex, drive, etc.)	Rear	Manual arm & sector / Electric - Flex Drive
Seat cush		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. 50/50 Full Foam - Opt.
wire, foa		3 rd seat	

MVMA Specifications Form Vehicle Line P

Vehicle Line	PLYMOUT	H SUNDA	NCE		
Model Year	1989	issued	9-30-88	Revised (•)	

			_
METRIC	"(ILS.	Custor	narv)

Body Type	All

Seating Pos	int System			Left	Center	Right	
eating ros	Type & description		First seat	N.A.	N.A.	N.A.	
Active (lap & shoulder belt, Standard/Optional Type & description (air bag, motorized -		Second seat	Lap & Shoulder belt Std.	Lap belt Std.	Lap & Shoulder belt Std.		
		Third seat	N.A.	N.A.	N.A.		
		First seat	Motorized - 2 Point, Knee bolster, Lap belt Std.	N.A.	Motorized - 2 Point, Knee bolster, Lap belt Std.		
Passive 2-point belt, fixed be knee bolster, manual		pelt,	Second seat	See Active	See Active	See Active	
	lap belt) Standard/Optional		Third seat	N.A.	N.A.	Ñ.Ä.	
Glass		SAE Ref. No.		24 - 2 Door		44 - 4 Door	
	glass exposed a [cm²(in²)]	51	9064 (1405)				
	xposed surface n ²)] - total 2 sides	S2		9352 (1450)		9952 (1543)	
	ass exposed a (cm²(in²)]	S3	6794 (1053)				
Total glass (area (cm²(ii	exposed surface n ²)]	\$4		25210 (2908)		25810 (3011)	
	glass (type)		Laminated safety glass				
Side glass (1		<u> </u>	Heat treated safety glass				
Backlight glass (type)			Heat treated safety glass				
Ø Lamps	and Headlamps Description - sealed		s				
halogen, replaceable bulb, etc		Replaceable bulb Aero					
Headlamp		,281,		9004			
	Quantity Hi-beam type (1A1	, 2A1, 1C1,		1			
	2C1, etc.)			9004			

Frame

Quantity

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

Unitized Construction

METRIC (U.S. Customary)

 	-,	٠.	••	 •••	 . ,

Model Year	1989	lssued-	9-30-88	Revised (•)	
			All		

Body Type		All		
Convenie	nce Equipment (standard, optional, n.a	.)		
9 1 ∧:	tioning (manual	Manual - Opt.		
	tioning (manual,	ivianuai - Opt.		
uto. temp	control)			
Clock (digit	al, analog)	Digital (In radio) - Std.		
	ermometer	N.A.		
onsole (flo	or, overhead)	Floor - Mini - Std. / Full - Opt.		
Defroster, e	lec. backlight	Opt.		
	Diagnostic monitor (integrated, individual	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		
l		N.A.		
Fuel door lo	ock (remote, key, electric)	N.A.		
	Auto head on / off delay, dimming	N.A		
	Cornering	N.A.		
[Courtesy (map, reading)	N.A.		
	Door lock, ignition	Opt.		
[Engine compartment	Opt.		
Lamps	Fog	Opt.		
1	Glove compartment	Opt.		
[Trunk	Opt.		
[Illuminated entry system			
]	(list lamps, activation)	N.A.		
Ø	Other	Ash receiver - Opt.		
	Poutsiahe (outs = ===)	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)	KITZEN NON-INUMINATED - Std. / KITZEN MUMINITATED - Opt.		
Ø Navigati	on system (describe)	N.A.		
Parking hrs	ke-auto release (warning light)	N.A.		

Vehicle Line PLYMOUTH SUNDANCE **MVMA** Specifications Form 9-30-88 Revised (*) 1989 Model Year Issued **METRIC (U.S. Customary)** All **Body Type** Convenience Equipment (standard, optional, n.a.) Cable release - Std. Deck lid (release, pull down) Door locks (manual, automatic, Power manual - Std. describe system) 6 way power - Opt. 2-4-6 way, etc. RH/LH - Std. Reclining (R.H., L.H.) N.A. Memory (R.H., L.H., preset, recline Power Seats 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 Antenna (location, whip, w/shield, power) AM Stereo/FM Stereo Ø Std. AM Stereo/FM Stereo /Cassette - Opt. AM, FM, stereo, tape, AM Stereo/FM Stereo/Cassette/Seek & Scan - Opt. compact disc, graphic equalizer, theft deterrent, radio prep pkg., Radio systems Opt. headphone jacks, etc. 2 - Door - Std. 2 - Doors / 2 Rear shelf - Opt. with Stereos with Cassette Speaker (number, location) 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 Theft deterrent system Anti-theft labels- Std.

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1989 Issued 9-30-88 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 J1100" Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	24	44		
Width		1464 (57.4	2)		
Fread (front)	W101	1464 (57.6)			
Fread (rear)	W102	1453 (57.2			
Vehicle width	W103	1710 (67.3			
Body width at SgRP (front)	W117	1708 (67.2			
Vehicle width (front doors open)	W120	4074 (160.4)	3431 (135.1)		
Vehicle width (rear doors open)	W121	1670/65	3297 (129.8)		
Front fender overall width	W106	1670 (65.			
Rear fender overall width	W107	1710 (67.3	3)		
Tumble-home (deg.)	W122	24°			
Length		0.453.497			
Wheelbase	L101	2463 (97			
Vehicle length	L103	4361 (171.			
Overhang (front)	L104	974 (38.3			
Overhang (rear)	L105	924 (36.4			
Upper structure length	L123	2413 (95			
Rear wheel C/L "X" coordinate	L127	2551 (100.			
Cowl point "X" coordinate	L125	486 (19.1			
Front end length at centerline	L126	1350 (53.			
Rear end length at centerline	L129	<u>598 (23:5</u>			
Height*					
Passenger distribution (front/rear)	PD 1,2,3	2 - Front 3 -	Rear		
Trunk/cargo load		**			
Vehicle height	H101	1339 (52.			
Cowl point to ground	H114_	911 (35.9			
Deck point to ground	H138	922 (36.3			
Rocker panel front to ground	H112	203 (8.0)			
Bottom of door closed front to ground	H133	235 (9.3)	241 (9.5)		
Rocker panel rear to ground	H111	173 (6.8			
Bottom of door closed rear to ground	H135		231 (9.1)		
Windshield slope angle	H122	56°			
Backlight slope angle	H121	54°			
Ground Clearance					
Front bumper to ground	H102	246 (9.7			
Rear bumper to ground	H104	261 (10.3)			
Bumper to ground (front	H103				
at curb mass (wt.)]		263 (10.4	1)		
Bumper to ground (rear	H105				
at curb mass (wt.)]		3 <u>4</u> 4 (1 <u>3.5</u>	5)		
Angle of approach (degrees)	Н106	16°			
Angle of departure (degrees)	Н107	16°			
Ramp breakover angle (degrees)	H147	_12°			
Axle differential to ground (front/rear)	H153	Front 141 (5.6)		
Min. running ground clearance	H156	117 (4.6			
Location of min. run. ground clearance		Frt. Susp. C'mbr. Brkt.			

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

Vehicle Line PLYMOUTH SUNDANCE

Model Year 1989 Issued 9-30-88 Revised(•)

141	FTRI	CI	115	Custo	mar	v١
17.7			u.s.	CUSIL	JI 1191	* ,

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for Definitions

Body Type		24	44		
	SAE				
	Ref.				
Front Compartment	No.				
SgRP front, "X' coordinate	L31	1398 (55.			
Effective head room	H61	973 (38.3			
Max. eff. leg room (accelerator)	L34	1055 (41.			
SgRP to heel point	H30	<u>271 (10.7</u>	"		
SqRP to heel point	L53	841 (33.1)		
Back angle	L40_	24°			
Hip angle	L42	96°			
Knee angle	L44	123°			
Foot angle	L46	87°			
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	1231 (48.	5)		
Steering wheel maximum diameter*	W9	381 (15.0	<u>) </u>		
Steering wheel angle	H18	26°			
Accel, heel pt. to steering wheel center	L11	497 (19.6	i)		
Accel, heel pt. to steering wheel center	H17	637 (25.1	<u>) </u>		
Steering wheel to C/L of thigh	H13	90 (3.5)			
Steering wheel torso clearance	L7	318 (12.5)			
Headlining to roof panel	H37	17 (0.7)			
Undepressed floor covering thickness	H67	22 (0.9)			

Rear Compartment

SqRP Point couple distance	L50	740 (29.1)	
Effective head room	H63	949 (37.4)		
Min. effective leg room	L51	864 (34.0)		
SaRP (second to heel)	H31	281 (11.1)		
Knee clearance	L48	-25 (-1.0)		
Compartment room	L3	614 (24.2)	
Shoulder room	W4	1334 (52.5)	1384 (54.5)	
Hip room	W6	1206 (47.5)	1136 (44.7)	
Upper body opening to ground	H51	N.A.	1228 (48.4)	
Back angle	L41	2:	5°	
Hip angle	-L43	_ 8:	3°	
Knee angle	L45	84	4°	
Foot angle	L47	119°		
Headlining to roof panel (second)	Н38	21 (0.8)	
Depressed floor covering thickness	H73	13 (0.5)	

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	N.A.
Liftover height	H195	751 (29.6)

Interior Volumes (EPA Classification)

Biterior volumes (EFA Classification)		
Vehicle class (subcompact, compact, etc.)	Com	pact
Interior volume index (cu. ft.)	101.9	101.8
Trunk/cargo index (cu. ft.)	13.2	13.1

^{*} See Page 14

MVMA Specifications Form	Vehicle Line	PLYMOU	ITH SUND	ANCE		
•		Model Year_	1989	Issued	9-30-88	Revised(•)
METRIC (U.S. Customary)		_				-
Vehicle Dimensions See Key She	ets for D	efinitions				
	SAE	<u> </u>		•		
Body Type	Ref.	2	4		Į.	44
	No.					
•				··		
Station Wagon - Third Seat					<u> </u>	
SgRP couple distance	L85					
Shoulder room	W85					
Hip room	W86					
Effective leg room	L86					
Effective head room	Н86			<u></u>		
SgRP to heel point	H87					
Knee clearance	L87					· · · · · · · · · · · · · · · · · · ·
Seat facing direction	SD1				 .	
Back angle	L88					<u></u>
Hip angle	L89					
Knee angle	L90					
Foot angle	L91					
Station Wagon - Cargo Space						
Cargo length (open front)	L200					
Cargo length (open second)	L201					
Cargo length (closed front)	L202				· -	
Cargo length (closed second)	L203	<u> </u>				
Cargo length at belt (front)	L204					<u> </u>
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	·				a h was
Rear opening height	H202					
Tailgate to ground height	H250					
Front seat back to load floor height	H197				_	· · · · · · · · · · · · · · · · · · ·
Cargo volume index [m³(ft.³)]	V2		<u> </u>			
Hidden cargo volume [m³(ft.³)]	V4					····
Cargo volume index-rear of 2 nd -seat	V10					
Hatchback - Cargo Space	Tana I			020	(26.5)	· · · · · · · · · · · · · · · · · · ·
Cargo length at front seatback height	L208				(36.5)	
Cargo length at floor (front)	L209				(63.1)	· · · · · · · · · · · · · · · · · · ·
Cargo length at second seatback height	L210	· 			(10.6) (34.6)	<u>.</u>
Cargo length at floor (second)	L211				(34.6) (22.0)	
Front seatback to load floor height	H197				(22.0) (19.3)	<u> </u>
Second seatback to load floor height	H198	0.04	3 (33.29)	407	1	0.935 (33.03)
Cargo volume index[m³(ft.³)]	V3	0.94.	3 (33.43)		+	0.333 (33.03)
Hidden cargo volume [m³(ft.³)]	V4	0.27	5 (13.25)		 -	0.372 (13.15)
Cargo volume index-rear of 2 nd -seat	V10		J (13.43)			
A orodynamics*						
Aerodynamics*		<u> </u>			· · · · · · · · · · · · · · · · · · ·	
Wheel lip to ground, front					•	
Wheel lip to ground, rear Frontal area [m²(ft.²)]	-					
Drag coefficient (Cd)						
orag coemicient (Ca)						

^{*}EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications Form METRIC (U.S. Customary)		tions Form Vehicle Line PLYMOUTH SUNDANCE
		Model Year 1989 Issued 9-30-88 Revised(•)
METRIC (U.:	S. Custor	nary)
Body Type		All
Vehicle Fide	ıcial Maı	·ks
Fiducial Mark		Define Coordinate Location
Number*		
Front		The center of gauge holes located in front longitudinal approximately 836 mm (32.9 in.) from centerline of front wheels.
Rear		The center of gauge holes located in rear longitudinal approximately 3057 mm (120.4 in) from the centerline of front wheels.
Fiducial Mark Number		,
	W21	433.5 (17.1)
	L54	925 (36.4)
Front	H81	-9 (-0.35) Bottom surface of Longitudinal
	H161	
	H163	
	W22	527.6 (20.8)
	L55	3146 (123.9)
Rear	H82	235 (9.3) Bottom Surface of Longitudinal
	H162	
	H164	

MVMA C-89

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

Vehicle Line	PLYMOUT	H SUNDA	NCE		
Model Year	1989	Issued	9-30-88	Revised(●)	

METRIC (U.S. Customary)

Estimated

	Vehicle Mass (Weight)							
	CURB MASS, kg (weight, lb.)*			% PASS. MASS DISTRIBUTION				- "
Code Model	Front	Rear			Front	Pass. in Rear		ETWC**
		<u> </u>		Front	Rear	Front	Rear	
PH24			1100	10-		10		
Sundance - 2 door hatchback	729	451	1180	49	51	19	81	<u> </u>
2.2L (135.0 in.3) EDF Engine	(1608)	(994)	(2602)		 	 	<u> </u>	
PH44		465	4400	40	F1	10	01	<u></u>
Sundance - 4 door hatchback	734	465	1199	49	51	19	81	
2.2L (135.0in³) EDF Engine	(1617)	(1025)	(2642)		1	 		<u> </u>
					 			<u> </u>
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SHIPPING MASS (weight) = Curb Weight Less Kg. (lbs.) 30 kg (66 lbs)

^{*} Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.

^{**}ETWC - Equivalent Test Weight Class - U.S. Environmental Protection Agency emission certifications are based on the ETWC's shown.

NA - Not Applicable - applies to model/series combinations not requiring testing.

Vehicle Line PLYMOUTH SUNDANCE

METRIC (U.S. Customary)

venicle Line	PETIMOO	111 301107	111/2		
Model Year	1989	Issued _	9-30-88	Revised(*)	

Estimated

Γ				Estimated / wilder
		Op1	ional Equip	oment Differential Mass (weight)*
Equipment	MASS, kg (weight, lb.)			Remarks
	Front	Rear	Total	
2.5 L (153.0 in. ³)	26.8	-0.5	26.3	
turbocharged engineEDT	(59)	(-1)	(58)	
2.5 L (153.0 in. ³)	13.6	0	13.6	
EFI engineEDM	(30)	(0)	(30)	
Automatic transmission	17.7	-2.3	15.4	EDF engine
	(39)	(-5)	(34)	
	10.9	-0.9	10	EDT engine
	(24)	(-2)	(22)	
	16.3	2.2	14.1	EDM engine
	(36)	(-5)	(31)	
Air conditioniong	26	-2	24	
All Conditions	(57)	(-4)	(53)	
Sunroof	3.2	4.5	7.7	
34111001	(7)	(10)	(17)	
Power windows	4	3	7	2 - door models with power door locks
r Owel Williams	(8)	(7)	(15)	
	4	2	6	2 - door models without power door locks
	(8)	(6)	(14)	
Power windows	5.4	4.5	9.9	4-door models with power door locks
1 Over Wildows	(12)	(10)	(22)	
	4.1	4.1	8.2	4-door models without power door locks
	(9)	(9)	(18)	
Full console with center	1.4	0.9	2.3	
arm rest	(3)	(2)	(5)	
Conventional spare tire	-0.9	5.4	4.5	with P185/70R14 tires only
Conventional spare the	(-2)	(12)	(10)	
		 		
	. –			<u> </u>
* Also see Engine - General section fo	or dressed en	nine mass /w	eight)	

^{*} Also see Engine - General section for dressed engine mass (weight).