MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1991

Manufacturer

CHRYSLER MOTORS CORPORATION

DODGE SHADOW

Mailing Address
12000 CHRYSLER DRIVE
CIMS 418-05-30
DETROIT, MICHIGAN 48288 - 1118

Vehicle Line

Revised

P-15-90

Direct questions concerning these specifications to the manufacturer listed above.

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

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

MVMA Specifications Form

METRIC (U.S. Customary)

Table of Contents

Ø	1	Vehicle Models / Origin Ø Indicates Format Change
	2	Power Teams From Previous Year
Ø	3-6	Engine
	4	Lubrication System
	4	Diesel Information
	5	Cooling System
	6	Fuel System
	7	Vehicle Emission Control
	7	Exhaust System
•	8-10	Transmission, Axles and Shafts
-	11	Suspension
1	2-13	Brakes
	13	Tires and Wheels
1	4-15	Steering
ø1	5-16	Electrical
	17	Body - Miscellaneous Information
	18	Restraint System
	18	Glass
	18	Headlamps
	18	Frame
1:	9-20	Convenience Equipment
Ø	20	Trailer Towing
2	1-23	Vehicle Dimensions
	24	Vehicle Fiducial Marks
Ø	25	Vehicle Mass (Weight)
	26	Optional Equipment Differential Mass (Weight)
2	7-33	Vehicle Dimensions Definitions - Key Sheets [Supplied Separately]
Ø	34	Index

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 (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.

METRIC (U.S. Customary)

/ehicle Line_	DODGE SHADOW				
/lodel Year	1991	Issued	9-15-90	Revised (•)	<u> </u>

Vehicle Origin

Design & Development (company)	Chrysler Motors Corporation
Where built (country)	U.S.A. / Mexico
Authorized U.S. sales marketing representative	Dodge 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)	EPA Fuel Economy (City/Hwy)
Shadow America 2-Door Hatchback FWD	October, 1990	APDL24	5 (2/3)	52 (115)	See Page 2
Shadow America 4-Door Hatchback FWD	n	APDL44	5 (2/3)	52 (115)	,
Shadow 2-Door Hatchback FWD	,	APDH24	5 (2/3)	52 (115)	n
Shadow 4-Door Hatchback FWD	r r	APDH44	5 (2/3)	52 (115)	7
Shadow 2-Door Convertible FWD	n	APDH27	4 (2/2)	52 (115)	, H
Shadow ES 2-Door Hatchback FWD	W	APD\$24	5 (2/3)	52 (115)	er er
Shadow 4-Door Hatchback FWD	n	APD\$44	5 (2/3)	52 (115)	n
Shadow 2-Door Convertible FWD	W	APD\$27	4 (2/2)	52 (115)	11
					!

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

Vehicle Line DODGE SHADOW

Model Year 1991 Issued 9-15-90 Revised (•)

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	С	D
	Engine Code		E	DF	E	ОМ	EDT	+
E	Displacement Liters (in ³)		2.2 (135.0)	2.5 (153.0)	2.5 (153.0)	=
N G I N	Induction system (FI, Carb., etc.)		ТВІ	-EFT		←	SMPI Turbo	(=
Ē	Compression ratio		9.	5:1	8.	9:1	7.8:1	←
ļ	SAE Power Net kW(bhp)			(93) 4800		(100) 4800	112 (150) @ 5000	114 (152) @ 4800
	at RPM	Torque N•m (lbft.)	165	(122) 3200	183	(135) 2800	244 (180) @ 2000	285 (210) @ 2400
	Exhaust single, dual		sir	ngle		=	←	←
T R	Transmission/ Transaxle		a 5-sp. man	b 3-sp. auto	a 5-sp. man	b 3-sp. auto	5-sp. man	3-sp. auto.
A N S	Axle Ratio (std. first) (a)		2.76:1	3.02:1	2.51:1	3.02:1	2.51:1	3.02:1
EPA Fuel Economy MPG (City / Hwy)		23/30	23 / 27	24/34	23 / 28	20/26	19/23	

Series Ava	ailability	Power Tea	ms (A-B-C-D)	
Model	Code	Standard	Optional	
Shadow America	APDL 24, 44	Aa	Ab	
Shadow	APDH 24, 44	Aa	Ab. Ba. Bb. C. D	
Shadow	APDH 27	<u>Ba</u>	Bb. C. D	
Shadow ES	APDS 24, 27, 44	Ba	Bb. C. D	
				·

(a) Overall top gear ratio

MVMA-91 Page 2

.... specifications Vehicle Line DODGE SHADOW Model Year METRIC (U.S. Customary) 1991 9-15-90 Revised (*) **Engine Description** 2.5L (153.0 in3), EFI **Engine Code** 2.5L (153.0 in3) **EDM** SMPI Turbo I, EDT **ENGINE - GENERAL** 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, front, transverse Manufacturer Chrysler No. of cylinders Bore 87.5 (3.44) Stroke Bore Spacing (C/L to C/L) 104.0 (4.09) Cylinder block material & mass kg (lbs.) (machined) 96.0 (3.78) Cylinder block deck height Cast Iron 40.55 (89.4) 237.8 (9.36) Cylinder block length 418 (16.46) Deck clearance (minimum) (above or below block) Cylinder head material & mass kg (lbs.) 0.00 0.1 (0.004), above Aluminum 9.71 (21.4) Cylinder head volume (cm³) Aluminum 10.66 (23.5) Cylinder liner material 48.94 to 51.94 N.A Head gasket thickness (compressed) 1.78 (0.070) Minimum combustion chamber total volume (cm3) 73.815 Cyl. no. system 92.24 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 (lbs.)]** Aluminum 2.86 (6.3) Exhaust manifold material & mass [kg (lbs.)]** Aluminum 5.67 (12.5) Cast Iron 6.08 (13.4) $oldsymbol{arOmega}$ Knock sensor (number & location) Cast iron 5.17 (11.4) Fuel required, unleaded, diesel, etc. Regular unleaded Fuel antiknock index $(R + M) \div 2$ Premium unleaded 87 octane or higher 87 or 91 octane or higher (a) **Ø**Quantity Engine Material and type (elastomeric, hydroelastic, hydraulic damper, etc. mounts Natural Rubber Added isolation (sub-frame, crossmember, etc.) None Total dressed engine mass (wt) dry*** 153.18 (337.0)

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum	Aluminum
Fngine - Campbete	322 (11.4)	367 (13.0)

161.36 (355.0)

Engine - Camshaft

Material & mass kg (weight, lbs.)	Overhead
	Post-hardened nodular iron
rive type Chain/belt	2.68 (5.9)
Width/pitch	Belt Belt
Rear of engine - drive takeoff. View from drive takeof	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. (a) 91 octane or higher recommended for improved performance

METRIC (U.S. Customary)

Engine Description
Engine Code

Vehicle Line	DODGE S	HADOW Issued	9-15-90	Revised (●)	
Model Year		```			

2.2 L (135.0 in³), EFI **EDF**

pe & description (inline, V, angle, st, location, front, mid, rear		Four-cylinder, In-line, SOHC, front, transverse
		1 Van Vyron e 1
v, hemi, wedge,	pre-camber, etc.)	Chrysler
anufacturer		4
o. of cylinders		87.5 (3.44)
ore		92.0 (3.62)
roke		96.0 (3.78)
0 -in-1C 11	to C/L)	Cast Iron 44.23 (97.5)
linder block ma	terial & mass kg (lbs.) (machined)	237.8 (9.36)
ylinder block dec	k height	418 (16.46)
ylinder block len	gth	
		0.00
Deck clearance (minimum) (above or below block)		Aluminum alloy 9.71 (21.4)
Cylinder head material & mass kg (lbs.)		48.5 to 51.5
Cylinder head volume (cm³)		N.A.
ylinder flead to	terial	
Cylinder liner material Head gasket thickness		1.78 (.070)
read gasket (iiic (compressed)	Kiless	
Minimum combu	ection chamber	65.31
Minimum combu total volume (cm	13)	R to L as installed - 1, 2, 3, 4
	i. Bank	
Cyl. no. system (front to rear)*	R. Bank	1, 3, 4, 2
Firing order		Aluminum 2.86 (6.3)
teacko manifold	material & mass [kg (lbs.)]**	Cast iron 6.08 (13.4)
Tub aust manifo	ld material & mass [kg (lbs.)]**	
(Avnock sensor	(number & location)	Regular unleaded
Fuel required, unleaded, diesel, etc.		87 octane or higher
Fuel required, unleaded, diesay, Estatory Fuel antiknock index (R + M) ÷ 2		3
ruel alltikilock	Quantity	Natural Rubber
	· t - deven (plastomeric	
Engine mounts	hydroelastic, hydraulic damper, etc.	None
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Added isolation (sub-frame,	
	crossmember, etc.)	142.26 (313.0)

Engine - Pistons	Aluminum
Liigine	445 (15.7)
Material & mass, g	445(15.17
(weight, oz.) - piston only	

	
Engine - Camshaft	Overhead
Location	Post-hardened nodular iron
Material & mass kg (weight, lbs.)	2.68 (5.9)
Material & mass kg (weight)	Belt
Chain/belt	23.8/9.52 (0.937/0.375)
Drive type Width/pitch	off end to determine left & right side of engine
	off end to determine letter of the state of

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

Page 3A MVMA-91

Prints reduces the following: starter, alternator, manifolds, water pump, engine mounted emissions controls, power 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 Vehicle Line DODGE SHADOW					
	-	Model Year 1991 Issued	9-15-90 Revised (◆)		
METRIC (U.S	. Customary)				
Famina Dansiis	<u>.</u>	2 EL (4E2 0 := 3) CAADI	2 51 (452 5) 2) 551		
Engine Descrip Engine Code	tion	2.5L (153.0 in³), SMPI Turbo, EDT	2.5L (153.0in³), EFI		
Engine code	L		EDM		
Engine - Val	ve System				
	s (std., opt., n.a.)	<u> </u>	td.		
Valves	Number intake/exhaust	4	/4		
	Head O.D. intake/exhaust	40.6/35.4	(1.60 / 1.39)		
Engine - Con	nnecting Rods				
	s [kg., (weight lbs.)]*	Forged steel 0.71 (1.6)	Forged steel 0.41 (0.90)		
Length (axes ¢ 1	to ¢) mm	151	(5.94)		
F					
Engine - Cra	s [kg., (weight lbs.)]*	High-hardness ductile iron 15.92 (35.1)	Nodular iron 15.88 (35.0)		
	n by bearing (no.)		ree		
	er of main bearings		9.2) / Five		
Seal (material,			/ One piece		
two piece desig	 		n / One piece		
	rication System	172 552/25 00	V (2) 2000		
	sure [kPa (psi) at eng. rpm] (floating, stationary)) @ 3000 rpm ^(a)		
	(full flow, part, other)		onary flow		
	se, less filter-refill-L (qt.)		(4.0)		
copperty or orea	se, ress inter-renn-E (qt.)		(4.0)		
Engine - Die:	sel Information				
Diesel engine m	nanufacturer				
Glow plug, curr	ent drain at 0° F				
Injector	Туре				
nozzle	Opening pres.[kPa (psi)]				
Pre-chamber de					
Fuel inj.	Manufacturer				
pump	Туре				
	drive (belt, chain, gear)				
Fuel heater (yes	vacuum source (type)				
Water separato					
(std., opt.)	r description				
Turbo manufact	turer				
Oil cooler type (oil to engine coolant;					
oil to ambient a					
Oil filter	···				
Engine - Inta					
Turbo charger					
Super charger -	manutacturer				
Intercooler					

* Finished State (a) Fully warmed

MVMA Specifications		Vehicle Line DODGE SHADOW	
•		Model Year 1991 Issued 9-15-90 Revised (◆)	
METRIC (U.S. (Customary)		
Engine Description	on	2.2L (135.0in ³), EFI	
Engine Code		EDF	
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 - Conn		Forged steel, SAE 1141, 0.41 (0.90)	
	[kg., (weight lbs.)]*	151 (5.94)	
Length (axes ¢ to	(¢) mm		
Engine - Cran	kshaft		
	[kg., (weight lbs.)]*	Nodular iron 15.10 (33.2)	
End thrust taken		Three	
	r of main bearings	487.1 (19.2) / Five	
Seal (material, or		Polyacrylic / One piece	
two piece design		Fluorocarbon / One piece	
Engine - Lubr	ication System	750 (35 00) (6) 3000/Fullywarmed	
	ure [kPa (psi) at eng. rpm]	172 - 552 (25-80) @ 3000/Fully warmed	
	loating, stationary)	Stationary	
	(full flow, part, other)	Full flow 3.8 (4.0)	
Capacity of c/cas	e, less filter-refill-L (qt.)	3.6 (4.0)	
	-11		
	el Information		
Diesel engine ma			
Glow plug, curre			
Injector	Type		
nozzle	Opening pres.[kPa (psi)]		
Pre-chamber des	Manufacturer		
Fuel inj.			
pump	Type		
	rive (belt, chain, gear) vacuum source (type)		
Fuel heater (yes			
Water separator			
(std., opt.)	description		
Turbo manufact	urer		
	oil to engine coolant;		
oil to ambient a			
Oil filter			
<u>On thich</u>			
Engine - Inta	ke System		
Turbo charger -			
Super charger -			

Intercooler

^{*} Finished State

METRIC (U.S. Customary)

Vehicle Line	DODGE	SHADOW / SHADO	W AMERICA	
Model Year_	1991	issued <u>9-15-90</u>	Revised (•)	

Engine Description Engine Code 2.5 L (153.0 IN.3) EFI, EDM 2.2 L (135.0 IN.3) EFI, EDF

<u>Engine -</u>	Cooling System		· · · · · · · · · · · · · · · · · · ·	
Coolant re	covery system (std., opt., n.a.)	Stan	dard	
Coolant fil	l location (rad, bottle)	<u>Bottle</u>		
Radiator ca	ap relief valve pressure [kPa (psi)]	96-124	(14-18)	
Circulation	Type (choke, bypass)	Choke, Pell	et Operated	
thermosta	t Starts to open at °C (°F)	90.6	(195)	
	Type (centifugal, other)	Centr	rifugal	
	GPM 1000 pump rpm	<u></u>		
	Number of pumps	O	ne	
Water	Drive (V-belt, other)	Multi-Gr	oove Belt	
pump	Bearing type	Integral B	all Bearing	
	Impeller material	Şt	eel	
	Housing material	Cast Ali	uminum	
By-pass rec	circulation (type (inter., ext.))	. ext.)] External in series with heater		
Cooling	With heater - L(qt.)	8.5	(9.0)	
system	With air cond L(qt.)	8.5	(9.0)	
capacity	Opt. equipment [specify - L(at.)]			
<u>Water jack</u>	ets full length of cyl. (yes, no)	Yes		
Water all a	round cylinder (yes, no)	<u> </u>	lo	
Water jackets open at head face (yes, no)		No		
Std. A/C, HD		Standard	A/C	
	Type (cross-flow, etc.)	Cross Flow		
	Construction (fin & tube			
Radiator	mechanical, braze, etc.)		r, Soldered, 1 Row	
core	Material, mass [kg (wgt.lbs.)] (a)	4,14 (9.1) MTX / 4.45 (9.8) Auto(b)	4.36 (9.6) MTX / 4.59 (10.1) Auto(b)	
	Width	566.4	(22.3)	
	Height	377.1	(14.8)	
	Thickness	17.8	(0.7)	
	Fins per inch	13	18 Man / 16 Auto	
Radiator e	nd tank material	Nylo	on 66	
	Std., elec., opt.	Ele	ctric	
	Number of blades & type			
	(flex, solid, material)	8 Blade	- Plastic	
	Diameter & projected width	361 × 33 (14.2 × 1.3)	
Ratio (fan to crankshaft rev.)				
Fan	Fan cutout type	Electric	c Motor	
	Drive type (direct, remote)		·-	
	RPM at idle (elec.)	1165	1740	
	Motor rating (wattage) (elec.)	53	165	
	Motor switch (type & location) (elec.)	Thermistor, Wate	er Box & AC Clutch	
	Switch point (temp., pressure) (elec.)	99°C (210°F) < 40 mph;	110°C (230°F) >40 mph	
	Fan shroud (material)		stic	

⁽a) Mass (weight) shown is for assembly as purchased.

⁽b) Radiator Material - Copper/Brass

METRIC (U.S. Customary)

Vehicle Line	DODO	GE SHADOW	<u> </u>	
Model Year_	1991	issued 9-15-90	Revised (*)	

Engine Description
Engine Code

2.5 L (153.0 IN.3), SMPI Turbo EDT

	cooling System overy system (std., opt., n.a.)	Stand	
	location (rad, bottle)	Bott	
	p relief valve pressure (kPa (psi))	96-124 (
	Type (choke, bypass)	Choke, Pellet	t Operated
	Starts to open at °C (°F)	90.6 (195)
crinostat	Type (centifugal, other)	Centrit	fugal
	GPM 1000 pump rpm		
	Number of pumps	On	e
	Drive (V-belt, other)	Multi-Gro	
oump	Bearing type	Integral Ba	Il Bearing
, u., . p	Impeller material	Ste	
	Housing material	Cast Alu	
Ry-pass reci	irculation [type (inter., ext.)]	External in serie	
Cooling	With heater - L(qt.)	8.5 (
ystem	With air cond L(qt.)	8.5 (9	9.0)
apacity	Opt. equipment [specify - L(qt.)]		
	ets full length of cyl. (yes, no)	Yes	
	round cylinder (yes, no)	No	
	ets open at head face (yes, no)	No	
Std. A/C, HD		Standard	A/C
	Type (cross-flow, etc.)	Cross	Flow
	Construction (fin & tube		
Radiator	mechanical, braze, etc.)	Tube & Fin Spacer,	, Soldered, 1 Row
core	Material, mass [kg (wgt.lbs.)] (a)	4.14 (9.1) MTX / 4.45 (9.8) Auto(b)	4.55 (10.0) MTX /4.77(10.5) Auto(
	Width	566.4	• • • • • • • • • • • • • • • • • • • •
	Height	377.1	
	Thickness	17.8	
	Fins per inch	13	20
Radiator er	nd tank material	Nylo	
	Std., elec., opt.	Elec	tric
	Number of blades & type		
	(flex, solid, material)	8 Blade	
	Diameter & projected width	361 × 33 (1	14.2 × 1.3)
	Ratio (fan to crankshaft rev.)		<u> </u>
Fan	Fan cutout type	Electric	Motor
	Drive type (direct, remote)		
	RPM at idle (elec.)	1740	1990
	Motor rating (wattage) (elec.)	165	222
	Motor switch (type & location) (elec.)	Thermistor, Wate	r Box & AC Clutch
	Switch point (temp., pressure) (elec.)	99°C (210°F) < 40 mph;	
	Fan shroud (material)	Pla	stic

⁽a) Mass (weight) shown is for assembly as purchased.

⁽b) Radiator Material - Copper/Brass

Vehicle Line DODGE SHADOW

1990 Model Year Issued

METRIC (U.S. Customary)

2.5L (153.0 in³) TBI-EFI,

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

(b)

Intake ports (4)

379.6 (55.1)

950

900 / Neutral

None

Revised (•)

Engine Description Engine Code

EDM

Engine - Fuel System (see supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used) Induction type: carburetor, fuel injection system, etc. Fuel injection

Manufacturer Holley/Bosch N.A. Carburetor no. of barrels N.A. Idle A/F mix.

Throttle body (1) Point of injection (no.) Pulse Fuel Constant, pulse, flow Injection Control (electronic, mech.) Electronic

System pressure [kPa (psi)] 270 (39.1)

850 idle spd.-rpm Manual (spec. neutral 850 / Neutral or drive and **Automatic**

used) Intake manifold heat control (exhaust

or water thermostatic or fixed) Air cleaner type

Fuel filter (type/location) Type (elec. or mech.) Location (eng., tank) Fuel Pressure range (kPa (psi)) pump

Flow rate at regulated pressure (L (gal) / hr @ kPa (psi))

9-15-90

Water, fixed Oil wetted paper element Paper element; Stainless steel canister; Inline underbody

Electric In fuel tank N.A.

81-161 (21-42) @ 12V & 15psi

92-180 (24-48) @ 12V & 55psi

Fuel Tank

propane if

II L (gallons)	53 (14)
scribe)	Forward of axle
	Galvanized or terne plated steel strap to floor pan
lass [kg (weight lbs.)]	Terne plated steel 10.20 (22.5) (a)
Location & material	Right rear quarter panel, lead dipped steel tube
Connection to tank	Rubber grommet
terial)	Duplex coated steel
aterial)	Fuel resistant rubber
material)	Duplex coated steel
narterial)	Duplex coated steel
Opt., n.a.	
Capacity [L (gallons)]	
Location & material	
Attachment	
Opt., n.a.	
Capacity (L (gallons))	
Location & material	
Attachment	
Selector switch or valve	
Separate fill	
	Connection to tank terial) aterial) material) material) Opt., n.a. Capacity [L (gallons)] Location & material Attachment Opt., n.a. Capacity [L (gallons)] Location & material Attachment Selector switch or valve

⁽a) Includes tank-mounted fuel pump

⁽b) Holly/Bosch/Seimens Bendix/McGuane

Vehicle Line DODGE SHADOW / SHADOW AMERICA **MVMA Specifications** 9-15-90 1991 Issued Model Year **METRIC (U.S. Customary)** 2.2L (135.0 in3) TBI-EFI **Engine Description EDF Engine Code** Engine - Fuel System (see supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used) Induction type: carburetor, fuel Fuel injection injection system, etc. Holley/Bosch Manufacturer N.A. Carburetor no. of barrels N.A. Idle A/F mix. Throttle body (1) Point of injection (no.) Pulse Constant, pulse, flow Fuel Electronic Control (electronic, mech.) Injection 270 (39.1) System pressure [kPa (psi)] 850 idle spd.-rpm Manual (spec. neutral 850 / Neutral Automatic or drive and propane if used) Intake manifold heat control (exhaust Water, unregulated or water thermostatic or fixed) Oil wetted paper element Air cleaner type Paper element; Stainless steel canister; Inline underbody Fuel filter (type/location) Electric Type (elec. or mech.) In fuel tank Location (eng., tank) **Fuel** N.A. Pressure range [kPa (psi)] pump Flow rate at regulated pressure 96-179 (25-47) @ 12V & 39psi (L (gal) / hr @ kPa (psi)) **Fuel Tank** 53 (14) Capacity refill L (gallons) Forward of axle Location (describe) Galvanized or terne plated steel strap to floor pan Attachment Terne plated steel 10.20 (22.5) (a) Material & Mass [kg (weight lbs.)] Right rear quarter panel, lead dipped steel tube Location & material Filler Rubber grommet

Separate fill (a) Includes tank-mounted fuel pump

Attachment

Connection to tank

Capacity [L (gallons)]

Location & material

Capacity [L (gallons)] Location & material

Selector switch or valve

Opt., n.a.

Attachment Opt., n.a.

Duplex coated steel

Fuel resistant rubber

Duplex coated steel

Duplex coated steel

pipe

Extended

Auxiliary tank

range

tank

Fuel line (material)

Fuel hose (material)

Return line (material)

Vapor line (marterial)

METRIC (U.S. Customary)

Vehicle Line	DODGE	SHAD	ow
--------------	-------	-------------	----

Model Year 1991 Issued 9-15-90 Revised (●)

Engine Description
Engine Code

	2.2L (135.0in ³) T	BI-EFI, EDF	
49 states, man.	49 states, auto.	Cal., manual	Cal., automatic

Vehicle Emission Control

	Type (air ir	njection, engin	e	exhaust gas recircul	<u>lation, engine m</u>	nodifications, catal	ytic converter	
	modification	ons, other)		aspirator		·		
		Pump or pulse	e	pulse		N.A.		
		Driven by		exhaust pressure		N.A.		
	Air	Air distribution	on					
	Air injection	(head, manife	old, etc.)	fixed		N,A.		
		Point of entry		catalytic converter		N.A.		
		Type (control	led flow,	exh. backpressure		exhaust	backpressure-	
	Exhaust	open orifice,	other)	-controlled flow	N.A.	contr	rolled flow	
Exhaust	Gas	Exhaust source	e		exhaust mani	fold branch		
Emission	Recirc-	Point of exha	ust injection	intake manifold		intake	manifold	
Control	ulation	(spacer, carbu		plenum	N.A.	pl€	enum	
		manifold, oth		,		·		
		Туре		3 - way + oxidation		3-way		
	Catalytic	Number of		one				
		Location(s)		below exhaust manifold				
		Volume [L(in.	3)]	1.23 + 0.74 (75 + 45)		1.23 + 0.9 (75 + 5	5)	
]	Substrate type			monolithic			
		Noble metal type		Pt:Rh + Pd (a)		Platinum: Rhodiu	m	
		Noble metal		0.00061:0.00009	0.00061	:0.00009 +	0.00061:0.00018	
		concentration	n (g/cm³)	+ 0.00085	0.0006	1:0.00007		
	Type (vent	ilates to atmo			closed induct	ion system		
	inductions	system, other)						
Crankcase	Energy sou	rce (manifold		manifold vacuum				
Emission	vacuum, ca	arburetor, oth	er)					
Control	Discharges	(to intake		intake manifold				
	maifold, o	ther)						
	Air inlet (b	Air inlet (breather cap, other)		air cleaner				
Evapora-	Vapor vented to (crank- Fuel tank				canis	ter		
tive emis-	case, canis		Carburetor					
sion control		age provision			canis	ter		
Electronic	Closed loo				yes - hot			
	Open loop (yes/no)				yes - cold			

Engine - Exhaust System

Type (single	e, single with cross-over,		single	
dual, other	·)			
Muffler no	. & type (reverse flow, straight thru,	•	one, reverse	e flow
separate re	esonator) Material & mass [kg. (weight lbs.)]	alumini:	zed steel 5.62 (12.4) -	includes tail-pipe below
Resonator	no. & type	none		
Exhaust Branch o. d., wall thickness		N.A.		
	Main o. d., wall thickness	50.8 × 1.4 (2.00 × 0.055)		
	Material & mass [kg. (weight lbs.))	4.63 (10.2) (b)	6.03 (13.3) (b)	5.67 (12.5) (b)
Intermed-	o. d., & wall thickness		47.8 × 1.4 (1.88	3×0.055)
iate pipe	Material & mass [kg. (weight lbs.)]	aluminized steel 2.86 (6.3) (includes resonator)		
 Tail	o.d., & wall thickness	47.8 × 1.4 (1.88 × 0.055)		3×0.055)
pipe	Material & mass [kg. (weight lbs.)]	aluminized steel (see muffler assembly)		

(a) Pt = Platinum; Rh = Rhodium; Pd = Palladium

(b) stainless steel (Includes catalytic converter)

Vehicle Line	DODGE SH	ADOW			
Model Year	1991	Issued	9-15-90	Revised (*)	-

М	ETR	C	(U	.S.	Cust	toma	ry)
---	------------	---	----	-----	------	------	-----

Engine Description Engine Code

2.5L (153.0in ³) TBI-EFI, EDM					
49 states, man.	49 states, auto.	Cal., manual	Cal., automatic		

Into catalyst 50.8 x 1.4 (2.00 x 0.055)

Out of catalyst $50.8 \times 1.4 (2.00 \times 0.055)$

 $47.8 \times 1.2 (1.88 \times 0.047)$

aluminized steel 2.86 (6.3) (includes resonator)

 $47.8 \times 1.1 (1.88 \times 0.043)$

aluminized steel (see muffler assembly)

4.63 (10.2) (b)

5.67 (12.5) (b)

Vehicle Emission Control

<u></u>	Type (air ir	njection, engine	•	exhaust gas recircu	lation, engine mo	difications, cat	alytic converter
		ons, other)		aspirator			
		Pump or pulse		pulse	N.A		
	ļ	Driven by		exhaust pressure		N.A	
	Air	Air distributio	n				
	Air injection	(head, manifo	old, etc.)	fixed		<u>N.A.</u>	
	-	Point of entry		catalytic converter		N.A.	
		Type (controll	ed flow,	exh. backpressure			st backpressure-
	Exhaust	open orifice, o		-controlled flow	N.A.		ntrolled flow
Exhaust	Gas	Exhaust source	e		exhaust manifo	old branch	
Emission	Recirc-	Point of exha	·	intake manifold			ce manifold
Control	ulation	(spacer, carbu	•	plenum	N.A.	Į.	plenum
		manifold, oth		<u> </u>			
		Туре		3 - way + oxidation		3-way	
	Catalytic				one		
	Converter				below exhaust	manifold	
							F.C.\
		Volume (L(in.	3)]	1.23 + 0.74 (75 + 45)	1:6	1.23 + 0.9 (75 +	55)
		Substrate type		monolithic Pt·Rh + Pd (a) Platinum:Rhodium		1	
	•	Noble metal t	ype	Pt:Rh + Pd (a)			
		Noble metal		0.00061:0.0000 9		0.00009 +	0.00061:0.000
		concentration	n (g/cm³)	+ 0.00085		:0.00007	
	Type (ven	tilates to atmo	sphere,		closed induction	on system	
	induction	system, othe <u>r)</u>		manifold vacuum intake manifold			
Crankcase	Energy so	urce (manifold					
Emission	vacuum, c	arburetor, oth	er)				
Control	Discharge	s (to intake					
	maifold, o	maifold, other)		-idomor			
	Air inlet (l	oreather cap, o	ther)	air cleaner			
Evapora-	Vapor ver	ited to (crank-	Fuel tank		<u>canist</u>	er	<u> </u>
tive emis-	case, cani	ster, other)	Carburetor				
sion contro	Vapor sto	rage provision		canister			
Electronic	Closed loc	Closed loop (yes/no)		yes - hot engine			
system	Open loop (yes/no)		yes - cold engine				
	Exhaust S				almost.		
Type (sing	le, single wit	h cross-over,			singl	е	
dual, othe	r)					- flow	
Muffler no	o. & type (rev	erse flow, strai	ght thru,		one, revers		ينمام مما
separate r	esonator) M	aterial & mass	kg. (weight lbs.)]	aluminized	steel 5.62 (12.4)		ibe pelow
Resonator	no. & type	·			one, straight		<u> </u>
	1			late catalyst 50.8 × 1.4 (2.00 × 0.055)			

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

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

Branch o. d., wall thickness

Main o. d., wall thickness

o.d., & wall thickness

o.d., & wall thickness

6.03 (13.3) (b)

Exhaust

Intermed-

iate pipe

pipe

Tail

Material & mass [kg. (weight lbs.)] (a) Pt = Platinum; Rh = Rhodium; Pd = Palladium

⁽b) stainless steel (includes catalytic converter)

Vehicle Line DODGE SHADOW

Model Year 1991 Issued 9-15-90 Revised (•)

METRIC (U.S. Customary)

Engine Description	2.5 L (153.0 ir	³) Turbo, EDT
Engine Code	49 States	Californi

	Type (air injection, engine modifications, other)		engine modifications, catalytic converter	engine mod's, catalytic converter, exhaust gas recirculation	
		Pump or pulse		none	
	Ì	Driven by		N.A	
}	Air injection	Air distribution (head, manifold, etc.)	N.A.		
Ì	Ī	Point of entry		N.A	
	Exhaust	Type (controlled flow, open orifice, other)	none	exhaust back pressure controlled flow	
Exhaust	Gas	Exhaust source	N.A.	turbine housing outlet, above flanc	
Emission Control	Recirc- ulation	Point of exhaust injection (spacer, carburetor, manifold, other)	N.A.	intake manifold	
ľ		Туре		3-way	
	Catalytic	Number of		one	
	Converter	Location(s)		nder floor	
		Volume [L(in. ³)]	1.80 (110)		
		Substrate type	monolithic		
		Noble metal type	Platin	um: Rhodium	
		Noble metal concentration (g/cm³)	0.00061: 0.00011	0.00061: 0.00018	
	Type (ventilates to atmosphere,			oduction system	

)			closed induction system		
Crankcase Emission			intake manifold vacuum		
Control	Discharges (to intake maifold, other)		intake manifold		
	Air inlet (breather cap, o	ther)	air cleaner		
Evapora-	Vapor vented to (crank-	Fueltank	canister		
tive emis-	case, canister, other)	Carburetor	N.A.		
sion control			canister		
Electronic	Closed loop (yes/no)		yes - hot engine		
system	Open loop (yes/no)		yes - cold engine		

Engine - Exhaust System

e, single with cross-over,	single		
)			
& type (reverse flow, straight thru,	one, reverse flow		
	aluminized steel 7.48 (16.5)		
no. & type	none		
	N.A.		
	63.5 × 1.4 (2.5 × 0.055)		
	aluminized steel 2.63 (5.8)		
	57.2 × 1.4 (2.25 × 0.055)		
	stainless steel 6.03 (13.3) (includes catalytic converter)		
o. d., & wall thickness	50.8 × 1.4 (2.0 × 0.055)		
Material & mass [kg. (weight lbs.)]	aluminized steel (see muffler assembly)		
	& type (reverse flow, straight thru, sonator) Material & mass [kg. (weight lbs.)] no. & type Branch o. d., wall thickness Main o. d., wall thickness Material & mass [kg. (weight lbs.)] o. d., & wall thickness Material & mass [kg. (weight lbs.)]		

METRIC (U.S. Customary)

Vehicle Line DODGE SHADOW

Issued **9-15-90** Model Year 1991 Revised(•)

Engine Description Engine Code

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

N.A	
N.A	
Std./ New Venture Gear/U.S.	
Opt./Chrysler/U.S.	
N.A.	
	Std./ New Venture Gear/U.S. Opt./Chrysler/U.S.

ol Transmission/Transayle

Number o	of forward speeds	5		
1st		3.29		
	2nd	2.08		
	3rd	1.45 1.04 0.72		
Gear ratios	4th			
	5th			
4003	Reverse	3.14		
vnchrone	ous meshing (specify gears)	All Forward Gears		
<u> </u>	rlocation	Floor		
	e mat'l. & mass kg.(lbs.)*	46.36 (102.0) 380 Aluminum Die Cast		
Lubricant		2.1 (4.3)		
	Type recommended	API SG/CC SAE 5W-30		

Clutch (Manual Transmission)

	nufacturar		LUK (2.2L)	Fichtel 8	k Sachs	
Clutch manufacturer Clutch type (dry, wet; single,multiple disc)			Dry Disc, single			
			Cable			
	ydraulic,cable,ro		116 (26)	100 (23)	116 (26)	
	al effort (nom.	Depressed**			125 (28)	
spring loa	d, new) N (lbs.)	Released***	125 (28)	112 (25)	123 (28)	
Assist (spr	ing, power/perce	nt, nominal)		None		
Type press	sure plate springs			Belleville		
	ng load (nominal,		4400 (989)	4700 (1057)	5750 (1292)	
Facing mfgr. & material coding			Valeo F-202			
	Facing material & construction		Fiberglass, Woven			
	Rivets per faci			8		
	Outside x inside dia. (nominal)		215 x 154 (8.46 x 6.06	228 x 150 (8.98 x 5.91)		
	Total eff. area	[cm² (in²)]****	353.6 (54.8)	463.13 (71.8)		
Clutch	Thickness (pre	essure plate side/				
facing	fly wheel side		3.15/3.15 (0.124/0.124)	3.4/3.4 (0.13/0.13)		
•	Rivet depth (p	ressure plate side/				
	fly wheel side		1.2/1.2 (0.047/0.047 min	1.1/1.1 (0.043	3/0.043) min.	
	Engagement	cushion method	W	ave spring segments		
Release b	earing type & me		Angular contact ball bearing permanently lubed with grease			
		l, springs, hysteresis	Coil spring	gs and friction fiber w	ashers	
			·			

^{*} Dry weight, includes shift linkage

^{**} Hold down effort

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

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

Vehicle Line DODGE SHADOW

9-15-90 1991 Model Year Revised (•)

METRIC (U.S. Customary)

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

Automatic Transmission/Transaxle

Trade name		Toro	queflite			
Type and special features (describe)			planetary gear transmission axis final drive			
rype one sp		Non-lock up torque converter	electronic lock up torque converter			
Gear	Location (column, floor, other)		loor			
elector	Ltr./No. designation (e.g. PRND21)		ND21			
	Shift interlock (yes, no, describe)		No			
1st			2.69			
Gear	2nd	1.55				
ratios	3rd	1.00				
	4th					
Reverse		2.10				
Max. upshift speed - drive range [km/h (mph)]		129 (80)	113 (70)			
Max. kickdo	wn speed - drive range [km/h (mph)]	119 (74)	105 (65)			
Min. overdr	ive speed [km/h (mph)]					
*	Number of elements	T	Three			
Forque	Max. ratio at stall	2.00	2.25			
onverter	Type of cooling (air, liquid)	L	Liquid			
	Nominal diameter	24	1 (9.5)			
	Capacity factor "K"	260	205			
Lubricant	Capacity [refill L (pt.)]	8.40 (17.75) - torque convert	er, transmission and differential			
	Type recommended		Mopar ATF Plus (Auto trans. fluid - Type 7176) (a)			
Oil cooler (s	td,opt,n.a.,internal,external,air,liquid)	Std liqu	Std liquid, in radiator			
	n case material & mass [kg. (lbs.)]**	Die cast aluminum -	58.06 (128.0) ^(b) w/o T.C.			

All Wheel / 4 Wheel Drive

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

^{*} Input speed ÷ √ torque

^{**} 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 DODGE SHADOW

Model Year 1991

Issued 9-15-90

Revised (*)

METRIC (U.S. Customary)

Engine Description
Engine Code

	2.2L (135.0 i	n³) - EFI,EDF	2.5L (153.0 in	3) - EFI, EDM
İ	Manual	Automatic	Manual	Automatic

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

Effective final drive ratio (or overall top gear ratio)			2.76	3.02	2.51	3.02
Transfer ratio and method (chain, gear, etc.)		••	1.06, gear		1.06, gear	
Front	Ring gea	ar o.d.	202.36 (7.97)	184.5 (7.26)	197.76 (7.79)	184.5 (7.26)
drive		Pinion	13	21	14	21
unit	teeth	Ring gear	50	60	49	60

Front Drive Unit

No. of differential pir	Type Offset	N.A. Helical	
Drive pinion No. of differential pin	Offset		
<u></u> `_			
·_			
Distant Differential	nions	Two	
Pinion / differential	Adjustment (shim, etc.)	4.	
	Bearing adjustment	Shim	
Driving wheel bearin	g (type)	See Wheel Spindle Hub, p. 14	
Lubricant Capacity	y[L (pt.)]	See transaxle	
Type red	commended	See transaxle	

Axle Shafts - Front Wheel Drive

Manufactu	lanufacturer and number used					SG-2	
Type (straig	ht, solid b	ar, tubular, etc.)	Left	Solid Bar			
			Right		Tub	е	Solid Bar
Outer	Manual	transaxle	Left	24.1 x 321.5	5 (0.95 x 12.66)	24.1 x 321.5 (0).95 x 12.66)
diam.x			Right	40.5 x 585.1	l (1.59 x 23.04)	40.5 x 585.1 (1	.59 x 23.04)
length* x Automatic transaxle			Left	23.9 x 332.4	1 (0.94 x 13.09)	23.9 x 332.4 (0).94 x 13.09)
wall			Right	23.9 x 586 (0.94 x 23.07) 23.9 x 332.4 (.094 x 23.07)			
thickness	Optiona	l transaxle	Left				
	!		Right				
Туре							
Slip							
yoke	Number of teeth						
	Spline o.	Spline o.d.					
	Make and mfg. no. Inner Outer				1		
				5-24	S-22	S-24	S-22
			Outer	5-24	S-22	S-24	S-22
		Number used		Two			
Universal	Type, siz	e, plunge	Inner	Tripod plunge			
joints			Outer		Rzepp	oa - fixed	
	Attach (u-bolt, clamp, etc.)		**			
		Type (plain,					
	Bearing	anti-friction)					
		Lubrication					
		(fitting, prepack)		Prepack			
Drive taker	through (torque tube,					
arms or spri	ings)						
Torque tak	en through	(torque tube,					
arms or spri	ings)						

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

Vehicle Line DODGE SHADOW

			 		
Model Year	1991	Issued	9-15-90	Revised (●)	

METRIC (U.S. Customary)

		
Engine Description	2.5L (153.0 in ³)	- Turbo I, EDT
Engine Code	Manual	Automatic
l.		

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

Effective	final drive ratio (or overall top gear ratio)	2.51	3.02
Transfer	ratio and method (chain, gear, etc.)		1.06, gear
Front	Ring gear o.d.	197.76 (7.79)	184.5 (7.26)
drive	No. of Pinion	14	21
unit	teeth Ring gear	49	60

Description	Description (integral to trans., etc.)		Integral with transmission	
Limited slip	different	ial (type)	N.A	
Drive pinion		Туре	Helical	
		Offset		
No. of differential pinions		nions	Two	
Pinion / differential		Adjustment (shim, etc.)		
		Bearing adjustment	Shim	
Driving who	eel bearin	g (type)	See Wheel Spindle Hub, p.14	
Lubricant	Capacity	y[L (pt.)]	See transaxle	
		commended	See transaxle	

Axle Shafts - Front Wheel Drive

Manufacture	er and nur	mber used		SSC	3-2	
Type (straigh	ht, solid ba	r, tubular, etc.)	Left	Solid bar	Solid bar	
			Right	Solid bar	Tube	
Outer	Manual t	ransaxle	Left	27.15 x 330.5 (1.08 x 13.01)		
diam.x	Automatic transaxle		Right	27.15 x 330.5 (1.08 x 13.01)		
ength* x			Left		24.1 x 321.5 (0.95 x 12.66)	
wall			Right		40.5 x 585.1 (1.59 x 23.04)	
thickness	Optional	transaxle	Left			
			Right			
	Туре		1	-	-	
Slip						
yoke	oke Number of teeth					
	Spline o.d.					
<u>.</u>	Make and mfg. no.		Inner	SSG # 26	SSG # 24	
			Outer	SSG # 24	SSG # 24	
	Number used			Two		
Universal	Type, size	e, plunge	Inner	Tripod plunge		
ioints			Outer	Rzeppa - fixed		
	Attach (u	ı-bolt, clamp, etc.)				
		Type (plain,				
	Bearing	anti-friction)		••		
Ï		Lubrication				
		(fitting, prepack)		Prepack		
	through (torque tube.	ĺ			
Drive taken		•	I .			

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

arms or springs)

Vehicle Line DODGE SHADOW

Model Year 1991 Issued 9-15-90 Revised (•)

METRIC (U.S. Customary)

Body Type

Std. - AP/D-L, H-All Std. - AP/D-S-All (SDC Suspension) (SDE Suspension)

Suspension - General Including Electronic Controls Standard / optional / not avail. Manual / automatic control Type (air / hydraulic) Primary / assist spring Car Rear only / 4 wheel leveling 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 Shock Type Monroe absorber Make

Suspension - Front

(front &

rear)

Piston diameter

Rod diameter

Type & desc	cription			
•		Iso-strut_		
Travel*	Full jounce	72.7 (2.86)	61.3 (2.41)	
1	Full rebound	99.2 (3.91)	100.3 (3.95)	
	Type (coil, leaf, other) & material	Coil, AISI 5160 H Chromium steel		
Ì	Insulators (type & material)	Compression: Rubber		
Spring	Size (coil design height & i.d.,			
	bar length x dia.)	216 x 152 I.D. (8.5 x 6.0 I.D.)		
)	Spring rate [N/mm (lb./in.)]	16.7 (95)	18.4 (105)	
)	Rate at wheel [N/mm (lb./in.)]	20.2 (115)	21.9 (125)	
tabilizer	Type (link, linkless, frameless)		nkless	
)	Material & bar diameter	AISI 1090 Spring	g steel 28.6 (1.125)	

Front: 32 (1.26)

Rear: 30.2 (1.19)

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

Suspension - Rear

Type & des	cription		Trailing flex-ar	rm with track bar	
Travel*	Fulljou	nce	56.1 (2.21)	34.3 (1.35)	
	Full reb	ound	134.1 (5.28)	130.3 (5.13)	
	Type (coil, leaf, other) & material Size (length x width, coil design height & i.d., bar length & dia.)		Coil: AISI 5160 H Chromium steel		
			229 x 102 l.	.D. (9.0 x 4.01)	
Spring	Spring rate [N/mm (lb./in.)]		31.5 (180)	35 (200)	
		wheel [N/mm (lb./in.)]	20.2 (116)	22.6 (129)	
	Insulators (type & material)		Compression: Rubber		
	If	No. of leaves			
	leaf	Shackle (comp. or tens.)			
Stabilizer	Type (li	nk, linkless, frameless)	Frameless ERW Tube		
	Materia	al & bar diameter	80 KSI HSLA steel 28.6 (1.13) O.D.		
Track bar (type)	-	Cha	annel	
	· · · ·				

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

METRIC (U.S. Customary)

Body Type And / Or **Engine Displacement**

Vehicle Line_	DODGE SHA	DOW			
Model Year	1991	Issued	9-15-90	Revised (*)	

Standard - All

Brakes - :	Service					
Description	า					
					Four-wheel hydraulic-actuated system	
Manufactu	*		disc or drum)		Disc	
	(std., opt., n.a				Drum	
	e (proportion		tering, other)		Dual proportioning valve	
	ke (std., opt., n				Standard	
Booster typ	pe (remote, int				Vacuum, single or tandem	
	Source (inlin				Intake manifold or throttle body	
Vacuum	Reservoir (v					
			driven, belt driven)	<u> </u>	
Traction	Operationa					
control			on (electronic, med	h.)		
	Front/rear (s		.a.)			
	Manufactur		 			
Anti-lock	Type (electr					
device	Number sen					
	-		aulic circuits			
ı	Integral or a		em			
	Yaw contro			 		
	*		e (elec., vac. mtr., p	wr. strg.)		
	rea (cm²(in.²))				F: 203.93 (31.61) / R: 242.7 (37.6)	
	g area (cm²(in.				F: 222.6 (34.5) / R: 258.1 (40.0)	
Swept area	a (cm²(in.²)]**	*(F/R)			F: 1329 (206) / R: 4119 (63.8)	
	Outer work			F/R	F: 258.5 (10.18) / R: N.A.	
Rotor	Inner worki	ng diameter		F/R	F: 158.0 (6.22) / R: N.A.	
	Thickness			F/R	F: 24.0 (0.945) / R: N.A.	
<u></u>	Material Ty	pe (vented	<u>(solid)</u>	F/R	F: damped cast iron, vented / R: N.A.	
Drum	Diameter &	Width		F/R	R: 200 (7.87) × 37.62 (1.48) / R: N.A.	
	Type & Mat	erial		F/R	F: N.A. / R: Cast composite	
Wheel cylin	nder bore	·			F: N.A. / R: 15.87 (0.625)	
Master cyli	inder	Bore/s	troke	F/R	21.0 (0.827) / 32.79 (1.291)	
Pedal arc ra	atio				3.28:1	
Line pressu	re at 445 N(10	00lb.) pedal	load [kPa (psi)]		Single: 9584 (1390), Tandem: 12750 (1850)	
Lining clea	rance	,		F/R	No major adjustment	
	1	Bonde	d or riveted (rivets/	seg.)	Riveted, 6 / shoe	
		Rivets	ize		7.54 (0.297) dia. x 8.48 (0.334)	
		Manu	facturer		Bendix	
	Front	Lining	code *****		BX - HH - EE	
	Wheel	Mater	ial		Semi - metallic, non - asbestos	
		****	Primary or outbo	oard	5918 mm ² x 11.3 (9.17 in ² x 0.445)	
		Size	Secondary or inb	oard	5211 mm ² x 12.95 (8.08 in ² x 0.510)	
Brake		Shoe t	hickness (no lining)	·	Outer: 4.83 (0.190); Inner: 5.2 (0.205)	
lining		Bonde	d or riveted (rivets/	'seg.)	Riveted, 10 / shoe	
			facturer		Bendix	
	Rear	Lining	code *****		BX-MQ-FF	
	Wheel	Mater	ial		Rolled asbestos	
		****	Primary or outbo	ard	198.56 × 32.5 × 6.65 (7.82 × 1.28 × 0.262)	
i	}	Size	Secondary or inbo	pard	198.56 × 32.5 × 6.65 (7.82 × 1.28 × 0.262)	
	<u> </u>	Shoe t	hickness (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.

MVMA Specifications		tions	Vehicle Line DODGE SHADOW			
	-		Model Year 1991	Issued <u>9-15-90</u> Revised (•)		
METRIC	(U.S. Customar	·y)				
		<u> </u>				
Body Typ	e And/Or		APD	APD		
Engine D	isplacement		L, H	S		
lires A	nd Wheels (Stan		P185/70 R 14, SL	D105/60 D 15 SI		
	Size (load range,	, steel, nylon, etc.)	Steel radial	P195/60 R 15, SL Steel radial		
	Inflation pres-	Front [kPa (psi)]	Steer radiar	Steerradial		
Tires	sure (cold) for	Front [kea (psi)]	220 (32)	240 (35)		
11163	recommended	Rear [kPa (psi)]		2-9 (33)		
	max. vehicle load	1	220 (32)	240 (35)		
	Rev./mile - at 70 k	•••	862	862		
	Type & material		Steel disc	Cast Aluminum		
	Rim (size & flange	e type)	14×5.5JJ	15×6.0JJ		
Wheels	Wheel offset		40 (1.6)	40 (1.6)		
		Type (bolt or stud)	Stud	Stud		
	Attachment	Circle diameter	100 (3.94)	100 (3.94)		
		Number & size	5 - M12×1.5	5 - M12 x 1.5		
	Tire and wheel		T115/70 D	14 compact spare		
Spare			14 × 4.0 T steel disc wheel			
	Storage position a	& location				
	(describe)	<u>_</u>	Horizontal - Rear	floor pan under cargo floor		
	nd Wheels (Opti	onal)				
	load range, ply)					
	s, radial, steel, nylor	n, etc.)	Cost aluminum			
	rpe & material)	(f4)	Cast aluminum			
	flange, type and of	iset)	14 × 6.0, JJ, 40 (1.6)			
	load range, ply) s, radial, steel, nylor	v etc \				
	pe & material)	r, etc./	· ·			
	flange type and off	set)				
	load range, ply)	3.0,	·			
	s, radial, steel, nylon	ı, etc.)	······································			
-	rpe & material)					
	flange type and off	set)				
Tire size (load range, ply)					
Type (bia	s, radial, steel, nylon	ı, etc.)				
Wheel (ty	pe & material)					
Rim (size,	flange type and off	set)				
•	and wheel (size)					
· ·	uration is different t			oad tire and wheel		
	scribe optional spar		Storage sa	ame as standard(a)		
wheel lo	cation & storage pos	sition)				
Rrabac	- Parking					
Type of co			Foot operated ne	dal/hand release lever		
Location				of instrument panel		
Operates				ce brake - Std.		
If separat		or external)	1100, 30171			
from serv						

(a) Not available on convertible

Lining size (length x width x thickness)

brakes

METRIC (U.S. Customary)

Body Type And/ Or

Vehicle Line	DODGE	SHADOW	
Model Year	1991	Issued 9-15-90	Revised(•)

Rack & pinion with integral power unit

45.9 mm / Rev.

16.1:1

Pulley and beit, off crankshaft

2.70
Rack & Pinion (Rod & ball directly attached to gear)

Rear of wheels

Two (tie rod inners integral with rack & pinion gear)

12.4° @ .3°

Ball bearing

Ball joint

Ball bearing

ISO strut with lower ball joint N.A.

N.A. M22 \times 1.5

Bolt-on, integral hub & bearing unit, double row angular contact ball

15" Wheels

Engine Displacement						
_Steering						
Manual (std.	, opt., n.a.)			N.A.		
Power Steer	ng (std., opt	t., n.a.)		Std.		
Adjustable		Туре		Tílt		
steering whe	el column	Manufacture	er	Chrysler Motors		
(tilt, telescop	e, other)	(Std., opt., n	.a.)	Opt.		
Wheel diame	Wheel diameter** Manual			N.A.		
(W9) SAE J11	(W9) SAE J1100 Power			381 (15)		
Turning	Outside	Wall to wall	(l. & r.)			
diameter	front	Curb to curb	(l. & r.)	11.0 (36.1) 11.03 (36.2)		
m (ft.)	Inside	Wall to wall	(l. & r.)			
	rear	Curb to curb	(l. & r.)			
Scrub Radius	*			- 48.3 (- 1.9)		
		Туре				
Manual	Gear	Manufacture	er			
		Ratios	Gear			
		<u> </u>	Overall			
	No. whee	l turns (stop to	stop)			
	Type (coa	xial, elec., hyd	., etc.)	Integral power gear		
	Manufact	turer		T.R.W.		

14" Wheels

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

^{**}See page 21

Power

Linkage

Steering

axis

Wheel

spindle/hub

Type

Ratios

no. wheel turns (stop to stop)

Location (front or rear

Tie rods (one or two)

Bearings | Upper

(type)

Thread (size)
Bearing (type)

Steering spindle & joint type

Inclination at camber (deg.)

Lower

Thrust

Outer bearing

Diameter Inner bearing

of wheels, other)

Gear

Overall

Gear

Pump (drive)

ØMVM	IA Specific	cations	Vehicle LineDODGE SHADOW
	•		Model Year 1991 Issued 9-15-90 Revised (*)
METRIC (L	J.S. Customai	y)	
Body Type A	And/Or		All
	ngine Displacement		7
Wheel Ali	ianment	_	
	Service	Caster (deg.)	Not adjustable; Ref. + 3.0°; Max. side to side differential 1.5
	checking	Camber (deg.)	- 0.2° - + 0.8°
		Toe-in [outside track - mm(in)]	0.4° Toe-in to 0.2° Toe-out (a)
Front	Service	Caster	Same as Service Checking
wheel at	reset*	Camber	+ 0.3° to ± 0.3°
curb mass	10300	Toe-in	0.1° toe-in ± 0.1° (a)
(wt.)	Periodic	Caster	Same as Service Checking
(***./	M.V. in-	Camber	Same as Service Checking
	spection	Toe-in	Same as Service Checking
	Service		- 1.3° to + 0.3°
D	* ** * * * * * * * * * * * * * * * * * *	Camber (deg.)	0.6° Toe-out to 0.6° Toe-in (a)
Rear	checking	Toe-in [outside track - mm(in)]	
wheel at	Service	Camber	$-0.5^{\circ} \pm 0.8^{\circ} \text{ (Shim)}$
curb mass	reset*	Toe-in	0° ± 0.6° (shim) (a)
(wt.)	Periodic M.V.		Same as Service Checking
*	inspection	Toe-in stable, trend set or other	Same as Service Checking
	•		•
Speed-	al - Instrumer Type (Analog,	its and Equipment digital, std., opt.)	Electric/Analog
ØElectrica Speed- ometer	al - Instrumer Type (Analog, Trip odomete	digital, std., opt.) (std., opt., n.a.)	Electric/Analog Std.
Speed-	al - Instrumer Type (Analog, Trip odometer Standard, opt	digital, std., opt.) (std., opt., n.a.) onal, not available	
Speed- ometer	al - Instrumen Type (Analog, Trip odometer Standard, opt Type	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic	
Speed- ometer Head-up	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital	
Speed- ometer Head-up	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam,	
Speed- ometer Head-up	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators	digital, std., opt.,) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges	
Speed- ometer Head-up	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode,	
Speed- ometer Head-up display	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control	digital, std., opt.,) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges	
Speed- ometer Head-up display	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode,	Std.
Speed- ometer Head-up display EGR mainter	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode,	
Speed- ometer Head-up display EGR mainter	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode,	Std. Voltmeter
Speed- ometer Head-up display EGR mainter Charge ndicator	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode, adjuctable	Std.
Speed- ometer Head-up display EGR mainter Charge ndicator Femp.	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type Warning device Type	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode, adjuctable	Std. Voltmeter
GR mainter Charge Indicator Indicator	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type Warning device Type Warning device	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode, adjuctable	Std. Voltmeter
Speed- ometer Head-up display EGR mainter Charge ndicator Femp. ndicator Oil pressure	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type Warning device Type Warning device Type	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode, adjuctable	Std. Voltmeter Magnetic gage
Speed- ometer Head-up display EGR mainter Charge Indicator Femp. Indicator Oil pressure Indicator	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type Warning device Type Warning device Type	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode, adjuctable de (light, audible)	Std. Voltmeter Magnetic gage
EGR mainter Charge ndicator Femp. ndicator Oil pressure ndicator	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type Warning device Type Warning device Type Warning device Type Warning device Type	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode, adjuctable de (light, audible)	Voltmeter Magnetic gage Light
Speed- ometer Head-up display EGR mainter Charge ndicator Temp. ndicator Oil pressure ndicator Euel ndicator	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type Warning device	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode, adjuctable de (light, audible) de (light, audible) de (light, audible) de (light, audible)	Voltmeter Magnetic gage Light Magnetic gage Light - Opt. with message center - Std. with turbo
Speed- ometer Head-up display EGR mainter Charge indicator Temp. indicator Oil pressure indicator Fuel indicator Wind-	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type Warning device Type	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode, adjuctable de (light, audible)	Voltmeter Magnetic gage Light Magnetic gage Light - Opt. with message center - Std. with turbo Electric 2 speed, non-depressed park
Speed- ometer Head-up display EGR mainter Charge indicator Temp. indicator Oil pressure indicator Fuel indicator Wind- shield	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type Warning device Type Standard Type (standard Type (optiona	digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode, adjuctable de (light, audible)	Voltmeter Magnetic gage Light Magnetic gage Light - Opt. with message center - Std. with turbo Electric 2 speed, non-depressed park Electric 2 speed, intermittent wipe
Speed- ometer Head-up display EGR mainter Charge indicator Temp. indicator Oil pressure ndicator Fuel indicator	al - Instrumer Type (Analog, Trip odometer Standard, opt Type Speedometer Status/Warnin indicators Brightness control nance indicator Type Warning device Type	ats and Equipment digital, std., opt.) (std., opt., n.a.) onal, not available Secondary, opto-electronic Digital g Turn signals, high beam, low fuel, check gauges Day / night mode, adjuctable de (light, audible)	Voltmeter Magnetic gage Light Magnetic gage Light - Opt. with message center - Std. with turbo Electric 2 speed, non-depressed park

Opt.

N.A.

Seashell

(a) Measurements in degrees, not inches

Type (optional)

Number used

Туре

Rear window wiper, wiper/washer (std., opt., n.a.)

Fluid level indicator (light, audible)

shield

Horn

Other

washer

METRIC (U.S. Customary)

Vehicle Line **DODGE SHADOW** Model Year 1991 Issued 9-15-90 Revised(•)

Engine Description Engine Code

2.2L(135.0 in³), TBI-EFI **EDF**

2.5L (153.0in3), TBI-EFI **EDM**

	Manufacturer	GNB, Delco, Exide, Johnson Controls		
	Model, std., (opt.)	GRP 34		
	Voltage	12V		
Battery	Amps at 0°F cold crank	500	600	
	Minutes-reserve capacity	110	120	
	Amp/hrs 20 hr. rate	66		
	Location	Left front fender side shield		
	Manufacturer	Denso	Bosch	
	Rating (idle/max.rpm)	90 HS	90 RS	
Alternator	Ratio (alt. crank/rev.)	2.60 : 1	2.53:1	
	Output at idle (rpm, park)	N.A.		
	Optional (type & rating)	none		
Regulator	Туре	Engine cont	rol computer	

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

Туре	Electron	ic (std., opt., n.a.)	N	I.A.		
•	Other (specify)		Engine control computer v	w/ electronic spark advance		
	Manufacturer		UTC	Diamond		
Coil	Model		5234952 5234652			
	Current	Engine stopped - A	0.0 A			
	<u>i</u>	Engine idling - A	1.	.9 A		
	Manufacturer Model		Champion			
			RN12YC			
Spark	Thread ((mm)	14 mm 28 (20)			
plug	Tighteni	ing torque [Nem (lb-ft)]				
	Gap		0.9 (0.035)			
	Number per cylinder		One			
Distributor	Manufa	cturer	Chr	rysler		
	Model		522	5226575		

Electrical Suppression Resistor spark plugs; Resistance ignition wire, Capacitor - Alternator; Diode - A/C clutch, Horn relay, Starter relay, wiper motor Suppression filter; Ground cable - Engine to dash, Engine mount, Locations & type A/C evaporator valve to dash, Internal fuel pump filter, Blocking Diode-Clutch relay; Suppression filter-blower motor, radiator fan motor; electric door locks (ring resistor), power mirror (ring varistor).

METRIC (U.S. Customary)

Vehicle Line DODGE SHADOW

Model Year 1991 Issued 9-15-90 Revised(•)

Engine	Description
Engine	Code

2.5 L (153.0in³), SMPI Turbo EDT

Electrical - Supply System

	Manufacturer	Delco, Exide, GNB, Johnson Controls		
	Model, std., (opt.)	GRP 34		
	Voltage	12V		
Battery	Amps at 0°F cold crank	600	0	
-	Minutes-reserve capacity	120)	
	Amp/hrs 20 hr. rate	66	<u> </u>	
	Location	Left front corner of engine compartment		
	Manufacturer	Denso	Bosch	
	Rating (idle/max. rpm)	90 HS	90RS	
Alternator	Ratio (alt. crank/rev.)	2.60:1	2.53:1	
	Output at idle (rpm, park)	N.A	١.	
	Optional (type & rating)	non	ne	
Regulator	Туре	Engine contro	ol computer	

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

Туре	Electron	ic (std., opt., n.a.)	N.A.
	Other (s	pecify)	Engine control computer w/ electronic spark advance
	Manufa	cturer	Toyodenso
Coil	Model		5234952
	Current	Engine stopped - A	0.0 A
		Engine idling - A	0.8 A
	Manufa	cturer	Champion
	Model		RN12YC
Spark	Thread ((mm)	14 mm
plug	Tighteni	ing torque [N•m (lb-ft)]	28 (20)
, •	Gap		0.9 (0.035)
	Number	per cylinder	One
Distributor	Manufa	cturer	Chrysler
	Model		5226525

Electrical Suppression

Locations & type Locations & type Blocking	park plugs; Resistance ignition wire; Capacitor - Alternator; VC clutch, Horn relay, Internal fuel pump filter, elay; Ground cable - Engine to dash, Engine mount, Diode-Clutch relay; Suppression filter-wiper motor, blower ediator fan motor; electric door lock (ring resistor), power mirror
----------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

/ehicle Line	DODGE	SHAD	ow				
	4004			- 00	 	 	 _

	Model Yea <u>r</u>	1991	Issued 9-15-90	_Revised(•)	
METRIC (U.S. Customary)					

Body Type	All

Body	
Structure	Unibody unitized construction with bolt on front suspension crossmember
Bumper system front - rear	Front: TPO fascia Ultra high strength steel reinforcement w/elastomeric energy absorbers Rear: TPO fascia Ultra high strength steel reinforcement w/elastomeric energy absorbers
Anti-corrosion treatment	Full immersion zinc phosphate conversion coating Full immersion, high build, epoxy cathodic- electrocoat primer Extensive use of galvanized steel Urethane chip resistant primer on lower exterior surfaces

Body - Miscellaneous Information

Type of fi	inish (lacquer, ename	l, other)	Enamel - Universal base coat / Clear coat
	Material & mass		19.3 (42.6)
Hood	Hinge location (fro	nt, rear)	Rear
	Type (counterbala	nce, prop)	Counterbalance, clockspring
,	Release control (in	ternal, external)	Internal cable
Trunk	Material & mass		••
tid	Type (counterbala	nce, other)	
	Internal release co	ntrol (elec., mech., n.a.)	
-	Material & Mass		15.7 (34.7)
Hatch-	Type (counterbala	nce, other)	Gas pressurized struts
back lid		ntrol (elec., mech., n.a.)	External key,all; internal mechanical cable, all except "America"
	Material & mass		
Tailgate	Type (drop, lift, do	or)	
		ntrol (elec., mech., n.a.)	
Vent win	dow control (crank,	Front	None
friction, p	oivot, power)	Rear	None
Window	Regulator type	Front	Manual & Electric arm & sector
(cable, ta	pe, flex, drive, etc.)	Rear	Manual arm & sector / Electric - Flex Drive
Seat cush	ion type	Front	Bucket - Flex-O-Lator Mat
(e.g., 60/40, bucket, bench, Rear		Rear	Bench - Full volume Foam
wire, foam, etc.) 3 rd seat		3 rd seat	·-
Seat back type Front		Front	Bucket - Flex-O-Lator Mat
(e.g., 60/4	10, bucket, bench,	Rear	50/50 full foam - std. 24/44 :Bench-full foam- Std. 27& " America"
-	m, etc.)	3 rd seat	

MVM	A Specification	ons		Vehicle Line DC	DGE SH	IADOW_				9
				Model Year	1991	Issued	9-15-90	Revised	(<u>•</u>)	
METRIC ((U.S. Customary)	_								
Body Type	•						All			
, .,,		ļ						<u> </u>		
n - 4 '	4. Country	ī.								
Seating Po	t System			Left			Center	- I	Right	
<u>Seating Po</u>	T		First	Lap & shoulder b	elt		N.A.		Lap & shoulder	belt
	Type &		seat	Std.		Ì			Std.	
	description								0.61-11-	la ala
Active	(lap & shoulder belt	t, lap	Second	Lap & Shoulder b	pelt	1	ap belt		Lap & Shoulder	peit
	belt, etc.)	1	seat	Std.		I	d. (J-21)	1	Std.	
		ļ				N.	A. (J-27) N.A.		N.A.	
	Standard/Optional		Third	N.A.		ļ	N.A.		И.А.	
			seat							
	T 0		First	Air bag &			N.A.		N.A.	
	Type & description		seat	Knee bolster						
	(air bag, motorized	-	Jeac	Std.						
Passive	2-point belt, fixed b		Second	N.A.			N.A.		N.A.	
	knee bolster, manu		seat			ļ		ł		
	lap belt)									
	'	ĺ	Third	N.A.			N.A.		N.A.	
	Standard/Optional		seat							
	<u> </u>	SAE								
Glass		Ref. No.	24 - 2 Door 44 - 4 Door			<u> </u>	27 - 2 Convertik	ole		
	d glass exposed	\$1	•			7595 (1	177\			
	ea [cm²(in²)]				<u> </u>	/595(1177)			
-	exposed surface	\$2		352 (1450)		9952 (1	543)		5367 (832)	
	(in²)] - total 2 sides	53			+ -		<u> </u>			
_	glass exposed ea [cm²(in²)]	33		4462 (692)		4462 (692)		1845 (286)	
	s exposed surface	\$4		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					431(2237) Glass	
area [cm²			2	21409 (3318) 22009 (3411)			16276 (2523) To	tal		
	d glass (type)		Laminated safety glass							
	<u>. </u>	<u> </u>		<u></u>	La	minated s	arety glass	<u> </u>		
Side glass	(type)				Hea	at treated	safety glas	is		
Racklight	alass (type)	 								·
Backlight glass (type)		Heat treated safety glass ULTRALITE					ULTRALITE® Pla	stic		
										
Lamps a	and Headlamps Lo		,							
	Description - seale				Da	placeable	hulh			
	halogen, replacea	ble bulb, etc				Aero	, Date			
	Shape (3A)	1 201				,,,,,,,			 ,	
Headlam	· 1	I, ZB1,				9004				
	2C1, etc.) Quantity		 			2				
			 							_
	Hi-beam type (1A1, 2A1, 1C1,		9004							
	Hi-beam type (1A1 2C1, etc.)	I, 2A1, 1C1,				9004			of low beam)	

Unitized Construction

Frame

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

MVMA Specifications Vehicle Line DODGE SHADOW Model Year 1991 9-15-90 Issued Revised (*) METRIC (U.S. Customary) ΑII **Body Type** Convenience Equipment (standard, optional, n.a.) Manual - Opt. Air conditioning (manual, auto. temp control) Digital (In radio) - Std. (H & S), Opt on lowline Clock (digital, analog) In overhead console, Opt. on H24/44, S24/44 Compass/thermometer Floor - Mini - Std.; Full - Opt. N. A. on lowline Console (floor, overhead) Opt. N. A. on lowline Defroster, elec. backlight N.A. Diagnostic monitor (integrated, individual N.A. Instrument cluster (list instruments) Keyless entry N.A. Electronic Tripminder (avg. spd., fuel) N.A. Voice alert (list items) N.A. 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) Door lock - N.A.; Ignition - Std. Door lock, ignition Opt. Engine compartment Lamps Opt. Fog Opt. Glove compartment Opt. Illuminated entry system (list lamps, activation) Ash receiver - Opt. Other

Mirrors

Navigation system (describe)

Day / night (auto. man.)

Parking brake-auto release (warning light)

L.H. (remote, power, heated)

Visor vanity (RH/LH, illuminated)

R.H. (convex, remote, power, heated)

Manual - Std.

Remote manual - Std. / Power - Opt. N. A. on lowline

Remote manual - Opt. / Power - Opt. N. A. on lowline

RH/LH Non-illuminated - Std. / RH/LH illuminated - Opt. N. A. on lowline

N.A.

Warning light - Std.

MVMA Specifications Vehicle Line DODGE SHADOW Model Year 1991 9-15-90 Revised (*) METRIC (U.S. Customary) ΑII **Model Code** Convenience Equipment (standard, optional, n.a.) N.A. Deck lid (release, pull down) Door locks (manual, automatic, Manual - Opt. H, S; N.A. L describe system) 6 way -Opt. H, S; N.A. L 2 - 4 - 6 way, etc. N.A. Reclining (R.H., L.H.) N.A. Memory (R.H., L.H., preset, recline Power Seats N.A. Equipment Lumbar, hip, thigh, support N.A. Heated (R.H., L.H., other) Opt. H, S; N.A. L Side windows N.A. Vent windows Opt. on 4-door only, N.A. L Rear windows Whip - Right front fender - Std. Antenna (location, whip, w/shield, power) AM/FM/MX/ETR, H, S only Std. AM/FM/MX/ETR, Lonly AM, FM, stereo, tape, FM/MX/ETR w/Cassette compact disc, graphic equalizer, Infinity I - Premium AM stereo/FM/MX w/Cassette - H, S only Radio theft deterrent, radio prep pkg., systems Opt. headphone jacks, etc. 2, front doors - Std. H, S; Opt. L 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., N. A. on lowline Roof open air fixed (flip-up, sliding, "T") Opt. H, 5; N.A. L Speed control device N.A. Speed warning device (light buzzer, etc.) Opt. Tachometer (rpm) N.A. Telephone system (describe) Inside hood release, Anti-theft labels- Std. Theft deterrent system **ØTrailer Towing**

Towing capable (Yes/No)	Yes (1)	Yes (1)	Yes (1)	Yes (1)	No (1)(2)
Engine/transmission/axle	2.2 MTX	2.2 ATX	2.5 MTX	2.5 ATX	2.5 Turbo MTX & ATX
Tow Class (L.H.III)*		ll	l	l	
Max. Gross trailer wgt. (lbs.)	1,000	1,500	1,000	2,000	
Max. trailer tongue load (lbs.)	100	150	100	200	
Towing Package available (Yes / NO)	No	No	No	No	No

^{*}Class I 2,000 lbs. Class II 3,500 lbs. Class III 5,000 lbs.

⁽¹⁾ Trailer towing not permitted on Convertible.

⁽²⁾ Trailer Towing not permitted with Turbocharged engines.

Vehicle Line DODGE SHADOW

Model Year 1991 | Issued 9-15-90 | 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	
ØWidth	<u> </u>			
Tread (front)	W101	1462 (57.6)	
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	•	
Outside mirror width	W410	1838 (72.4)	
ØLength				
Wheelbase	L101	. 2469 (97.2)	
Vehicle length	L103	4361 (1		
Overhang (front)	L104	968 (3		
Overhang (rear)	L105	924 (3		
Upper structure length	L123	2413		
Rear wheel C/L "X" coordinate	L127	2552 (100.5)		
ØHeight* Passenger distribution (front/rear) Trunk/cargo load	PD 1,2,3	2 - Front	3 - Rear	
	4404			
Vehicle height	H101	1346 (
Cowl point to ground	H114	935 (3		
Deck point to ground	H138	933 (3		
Rocker panel front to ground Rocker panel rear to ground	H112	211 (
Windshield slope angle	H111	182 (56		
Backlight slope angle	H122	54		
Ground Clearance			<u> </u>	
Front bumper to ground	H102	251 (9.9)	
Rear bumper to ground	H104	249 (
Bumper to ground (front	H103			
at curb mass (wt.)]		267 (1	10.5)	
Bumper to ground (rear	H105			
at curb mass (wt.)]		320 (1	12.6)	
Angle of approach (degrees)	H106	16		
Angle of departure (degrees)	H107	16		
Ramp breakover angle (degrees)	H147	12	0	
Axle differential to ground (front/rear)	H153	Front 14	41 (5.6)	
Min. running ground clearance	H156	117 (
		F. C. C. 1 - 1	. 0 6.1 1.11	

^{*} 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.

MVMA - 91

Location of min. run, ground clearance

Page 21

Frt. Susp. C'mbr. Brkt. (left hand side)

Vehicle Line DODGE SHADOW

Model Year 1991 | Issued 9-15-90 | 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.	27		
ØWidth	1.54.			
Tread (front)	W101	1462 (57.6)		
Tread (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)		
Vehicle width (rear doors open)	W121	N.A		
Tumble-home (deg.)	W122	24°		
Outside mirror width	W410	<u>-</u>		
ØLength				
Wheelbase	L101	2469 (97.2)		
Vehicle length	L103	4361 (171.7)		
Overhang (front)	L104	968 (38.1)		
Overhang (rear)	L105	924 (36.4)		
Upper structure length	L123	2413 (95)		
Rear wheel C/L "X" coordinate	L127	2552 (100.5)		
ØHeight*				
Passenger distribution (front/rear)	PD 1,2,3	2 - Front 2 - Rear		
Trunk/cargo load				
Vehicle height	H101	1373 (54.1)		
Cowl point to ground	H114	938 (36.9)		
Deck point to ground	Н138	940 (37.0)		
Rocker panel front to ground	H112	214 (8.4)		
Rocker panel rear to ground	H111	188 (7.4)		
Windshield slope angle	H122	56°		
Backlight slope angle	H121	54°		
Ground Clearance	<u></u>			
Front bumper to ground	H102	252 (9.9)		
Rear bumper to ground	H104	257 (10.1)		
Bumper to ground [front	H103			
at curb mass (wt.)]		267 (10.5)		
Bumper to ground (rear	H105			
at curb mass (wt.)]		320 (12.6)		
Angle of approach (degrees)	H106	16°		
Angle of departure (degrees)	H107	16°		
Ramp breakover angle (degrees)	H147	12°		
Axle differential to ground (front/rear)	H153	Front 117 (4.6) / Rear 100 (3.9)		
Min. running ground clearance	H156	116 (4.6)		
Location of min. run. ground clearance		Frt. Susp. C'mbr. Brkt. (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 DODGE SHADOW

Model Year 1991 | Issued 9-15-90 | Revised(•)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Body Type 24 44

Ø 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)	←
SgRP to heel point	H30	271 (10.7)	←
SgRP to heel point	L53	841 (33.1)	=
Back angle	L40	24.5°	=
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	1229 (48.4)	+
Steering wheel maximum diameter*	W9	381 (15.0)	←
Steering wheel angle	H18	25.8°	←
Accelerator heel pt. to steer, whl. cntr.	L11	497 (19.6)	←
Accelerator heel pt. to steer, whl. cntr.	H17	637 (25.1)	←
Undepressed floor covering thickness	H67	22 (0.9)	(

Ø Rear Compartment

zo kear Compartment			
SgRP couple distance	L50	740 (29.1)	\(=
Effective head room	H63	949 (37.4)	
Min. effective leg room	L51	864 (34.0)	=
SgRP (second to heel)	H31	281 (11.1)	←
Knee clearance	L48	-25 (-1.0)	-24 (-0.9)
Shoulder room	W4	1334 (52.5)	1384 (54.5)
Hip room	W6	1206 (47.5)	1136 (44.7)
Upper body opening to ground	H51	NA	1226 (48.3)
Back angle	L41	25°	←
Hip angle	L43	83°	←
Knee angle	L45	84°	(=
Foot angle	L47	119°	←
Depressed floor covering thickness	H73	13 (0.5)	←

Luggage Compartment

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

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 DODGE SHADOW ...

Model Year 1991 Issued 9-15-90 Revised(•)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Body Type

27

SAE Ref. Ø Front Compartment No.

Ø Front Compartment	No.	
SgRP front, "X" coordinate	L31	1398 (55.0)
Effective head room	H61	1013 (39.9)
Max. eff. leg room (accelerator)	L34	1055 (41.5)
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°
Design H-point front travel	L17	197 (7.8)
Normal driving & riding seat track trvl.	L23	178 (7.0)
Shoulder room	W3	1384 (54.5)
Hip room	W5	1344 (52.9)
Upper body opening to ground	H50	1246 (49.1)
Steering wheel maximum diameter*	W9	381 (15.0)
Steering wheel angle	H18	25.8°
Accelerator heel pt. to steer, whi, cntr.	£11	497 (19.6)
Accelerator heel pt. to steer, whi, cntr.	H17	637 (25.1)
Undepressed floor covering thickness	H67	22 (0.9)

Ø Rear Compartment

Rear Compartment		
SgRP couple distance	L50	685 (27.0)
Effective head room	H63	955 (37.6)
Min. effective leg room	L51	998 (39.3)
SgRP (second to heel)	H31	276 (10.9)
Knee clearance	L48	- 57 (-2.2)
Shoulder room	W4	1082 (42.6)
Hip room	W6	1087 (48.8)
Upper body opening to ground	H51	N.A.
Back angle	L41	11°
Hip angle	L43	64.5°
Knee angle	L45	70°
Foot angle	L47	110°
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 (FPA Classification)

interior volumes (EPA Classification	I
Vehicle Class	Compact
Interior volume index (cu. ft.)**	8.7
Trunk / cargo index (cu. ft.)	91.2

^{*} See p. 14

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

Vehicle Line DODGE SHADOW

Model Year 1991 | Issued 9-15-90 | Revised(*)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for Definitions

	SAE		
Body Type	Ref.	24	44
	No.		

Station Wagon - Third Seat

SgRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	Н86	
SgRP to heel point	Н87	
Knee clearance	L87	
Seat facing direction	SD1	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

Station Wagon - Cargo Space

Station wagon - Cargo Space		
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 (36.5)	
Cargo length at floor (front)	L209	1602 (63.1)	
Cargo length at second seatback height	L210	270 (10.6)
Cargo length at floor (second)	L211	880 (34.6)	
Front seatback to load floor height	H197	560 (22.0)	
Second seatback to load floor height	H198	489 (19.3)	
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)

 Vehicle Line
 DODGE SHADOW

 Model Year
 1991
 Issued
 9-15-90
 Revised(•)

METRIC	(U.S.	Custom	ary
--------	-------	--------	-----

Body Type		All
Vehicle Fid	ucial Mai	rks
Fiducial Mark Number*		Define Coordinate Location
Front		The center of gauge holes located in front / rear 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		
	<u>, </u>	
	W21	433.5 (17.1)
Front	L54 H81	925 (36.4) -9 (-0.35) Bottom surface of Longitudinal
riont	H161	-5 (0.55) boctom surface or congregation
	H163	
-	W22	527.6 (20.8)
	L55	3146 (123.9)
Rear	H82	235 (9.3) Bottom Surface of Longitudinal
	H162	
	H164	

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

METRIC (U.S. Customary)

Vehicle Line DODGE SHADOW

Model Year 1991 Issued 9-15-90 Revised(•)

			VEH	ICLE MASS	(Weight)		% PAS	S MASS	DISTRIB	UTION
		CU	RB MASS, I	kg (lb.)*	Shipping Mass	ETWC**	Pass. ir	Front	Pass. i	n Rear
Code	Model	Front	Rear	Total	kg(lb)***	Code	Front	Rear	Front	Rear
APDL24	Shadow	745	441	1186	1156				-	
2.2L (135.0	in³) EDF Engine	(1642)	(973)	(2615)	(2549)	3125	49.0	51.0	19.0	81.0
APDL44	Shadow	750	453	1203	1173	3125 man.				
2.2L (135.0	in ³) EDF Engine	(1653)	(999)	(2652)	(2586)	3125 auto.	49.0	51.0	19.0	81.0
4.00										
APDH24	Shadow	746	448	1194	1164	3125 man				
2.2L (135.0	in ³) EDF Engine	(1644)	(988)	(2632)	(2566)	3125 auto	49.0	51.0	19.0	81.0
APDH44	Shadow	751	460	1211	1181	2125		<u> </u>		
2.2L (135.0		(1655)	(1014)	(2669)	(2603)	3125 man 3125 auto.	49.0	51.0	19.0	81.0
2.22(133.0	They Lot Engine	(1033)	(1014)	(2009)	(2003)	3125 auto.	49.0	31.0	19.0	81.0
APDS24	Shadow ES	768	460	1228	1198	3125 man				
2.5L (153.0		(1694)	(1014)	(2708)	(2642)	3125 auto.				
			,						<u>. </u>	
APD\$44	Shadow ES	774	472	1246	1216					
2.5L (153.0	in ³) EDM Engine	(1705)	(1041)	(2746)	(2680)	3125				
APDH27	Shadow	798	509	1307	1277					
2.5L (153.0	in ³) EDM Engine	(1760)	(1122)	(2882)	(2816)	3125				
	<u>-</u>									
APD\$27	Shadow ES	807	513	1320	1290					
2.5L (153.0	in ³) EDM Engine	(1778)	(1132)	(2910)	(2844)	3125			•	
APDH24-44	1 Chadau									
2.5L (153.0						2125		-		
2.31 (133.0	in ³) EDT Engine					3125				
APDH27	Shadow ES								-	
2.5L (153.0	_, ,					3250				
										
	· · · · · · · · · · · · · · · · · · ·									
								· <u>-</u>		

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

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

Refer to ETWC code legend below for test weight class.

			ETWCL	EGE	ND		
Α	= 1000	f	= 2000	Q	= 3000	Υ	= 4000
В	= 1125	j	= 2125	R	= 3125	Z	= 4250
C	= 1250	Κ	= 2250	S	= 3250	AA	= 4500
Ð	= 1375	L	= 2375	T	= 3375	BB	= 4750
E	= 1500	M	= 2500	U	= 3500	CC	= 5000
F	= 1625	Ν	= 2625	٧	= 3625	DD	= 5250
G	= 1750	0	= 2750	W	= 3750	EE	= 5500
Н	= 1875	Ρ	= 2875	Х	= 3875	FF	= 5750

***Shipping	Mass	(weight)	=	Curb	Weight	less:
-------------	------	----------	---	------	--------	-------

30 kg. (66 lbs.)	

METRIC (U.S. Customary)

Vehicle Line DODGE SHADOW

Model Year 1991 Issued 9-15-90 Revised(●)

Estimated

Optional Equipment Differential Mass (weight)* MASS, kg (weight, lb.) Remarks Equipment Front Total Rear 2.5 L (153.0 in.3) Turbo--2.2 26.8 vs EDF Engine 29 (64)(-5)(59)charged Engine, EDT vs EDF Engine 14.1 -0.5 13.6 2.5 L (153.0 in³⁾Engine, (30)-1 (31)EDM 2.5 L (153.0 in.3) Turbo--2.2 13.2 vs EDM Engine 15.4 charged Engine, EDT (34)-5 (29)**Automatic Transmission** 16.3 -4.5 11.8 **EDF Engine** (26)(36)(-10)**Automatic Transmission** -0.9 9.1 **EDT Engine** 10 (20)(22)(-2)-0.9 10.9 **EDM Engine Automatic Transmission** 11.8 (26)(-2)(24)20.9 Air Conditioning 22.7 -1.8 (-4)(46)(50)4.5 7.7 Sunroof 3.2 (17)(10)(7)2-Door models with power door locks Power Windows 4 3 (8) (7)(15)Power Windows 6 2-Door models without power door locks 4 2 (14) (8) (6) 9.9 4-Door models with power door locks Power Windows 5.4 4.5 (10)(22)(12)4.1 8.2 4-Door models without power door locks **Power Windows** 4.1 (9) (9)(18)With P185/70R14 Tires Only **Conventional Spare Tire** -0.9 5.9 5 (11)(-2)(13)

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