

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1991

Manufacturer CHRYSLER MOTORS CORPORATION	Vehicle Line DODGE SPIRIT	
Mailing Address 12000 CHRYSLER DRIVE CIMS 418-05-30 DETROIT, MICHIGAN 48288 - 1118	Issued 9-15-90	Revised

Direct questions concerning these specifications to the manufacturer listed above.

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

MVMA Specifications Form

METRIC (U.S. Customary)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications

Vehicle Line **DODGE SPIRIT**Model Year **1991** Issued **9-15-90** Revised (●) _____

METRIC (U.S. Customary)

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

Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk Cargo Load - Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
Spirit 4-Door Sedan - FWD	October, 1990	AADH41	5 (2/3) std. 6 (3/3) opt.	52 (115)	See Page 2
Spirit LE 4-Door Sedan - FWD	October, 1990	AADP41	5 (2/3) std.	52 (115)	"
Spirit R/T 4-Door Sedan - FWD	October, 1990	AADS41	5 (2/3) std. 6 (3/3) opt.	52 (115)	"
Spirit ES 4-Door Sedan - FWD	October, 1990	AADX41	5 (2/3) std.	52 (115)	"

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

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Vehicle Line **DODGE SPIRIT**

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	B	C	D	E
E N G I N E	Engine Code		EDM	⇐	EDT	⇐	EFA
	Displacement Liters (in³)		2.5 (153.0)	⇐	⇐	⇐	3.0 (181.4)
	Induction system (FI, Carb., etc.)		TBI-EFI	⇐	SMPI Turbo	⇐	MPI
	Compression ratio		8.9:1	⇐	7.8:1	⇐	8.9:1
	SAE Net at RPM	Power kW (bhp)	75 (100) @ 4800	⇐ ⇐	114 (152) @ 4800	112 (150) @ 5000	105 (141) @ 5000
		Torque N • m (lb. ft.)	183 (135) @ 2800	⇐ ⇐	285 (210) @ 2400	180 (244) @ 2000	232 (171) @ 2800
	Exhaust single, dual		single	⇐	⇐	⇐	⇐
T R A N S	Transmission/ Transaxle		Manual 5-speed	Auto. 3-speed	Manual 5-speed	Auto. 3-speed	4-speed OD auto.
	Axle Ratio (std. first) (a)		2.51:1	3.02:1	2.51:1	3.02:1	2.52:1
EPA Fuel Economy MPG (City / Hwy)			24 / 34	23 / 27	20 / 27	19 / 24	20 / 26

[illegible]

(a) Overall top gear ratio

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Vehicle Line **DODGE SPIRIT**

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	B	C	D
ENGINE	Engine Code		EDS			
	Displacement Liters (in ³)		2.2 (135.0)			
	Induction system (FI, Carb., etc.)		SMPI Turbo			
	Compression ratio		7.8:1			
	SAE Net at RPM	Power kW (bhp)	167 (224) @6000			
		Torque Nm (lb.-ft.)	295 (217) @ 2800			
	Exhaust single, dual		Single			
TRANS	Transmission/ Transaxle		Manual 5-speed			
	Axle Ratio (std. first) ^(a)		2.74			
EPA Fuel Economy MPG (Cty / Hwy)			19 / 27			

[illegible]

(a) Overall top gear ratio

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Engine Description

Engine Code

**2.5L (153.0 in³), EFI
EDM**

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

ENGINE - GENERAL

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	4	
Bore	87.5 (3.44)	
Stroke	104.0 (4.09)	
Bore Spacing (C/L to C/L)	96.0 (3.78)	
Cylinder block material & mass kg (lbs.) (machined)	Cast Iron 40.55 (89.4)	
Cylinder block deck height	237.8 (9.36)	
Cylinder block length	418 (16.46)	
Deck clearance (minimum) (above or below block)	0.00	0.1 (0.004), above
Cylinder head material & mass kg (lbs.)	Aluminum 9.71 (21.4)	Aluminum 10.66 (23.5)
Cylinder head volume (cm ³)	48.94 to 51.94	
Cylinder liner material	N.A.	
Head gasket thickness (compressed)	1.78 (0.070)	
Minimum combustion chamber total volume (cm ³)	73.815	92.24
Cyl. no. system (front to rear)*	R to L as installed - 1, 2, 3, 4	
L. Bank		
R. Bank		
Firing order	1, 3, 4, 2	
Intake manifold material & mass [kg (lbs.)]**	Aluminum 2.86 (6.3)	Aluminum 5.67 (12.5)
Exhaust manifold material & mass [kg (lbs.)]**	Cast Iron 6.08 (13.4)	Cast iron 5.17 (11.4)
Knock sensor (number & location)		
Fuel required, unleaded, diesel, etc.	Regular unleaded	Premium unleaded
Fuel antiknock index (R + M) ÷ 2	87 octane or higher	87 or 91 octane or higher (a)
Quantity	3	
Engine mounts	Natural Rubber	
Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)		
Added isolation (sub-frame, crossmember, etc.)	None	
Total dressed engine mass (wt) dry***	153.18 (337.0)	161.36 (355.0)

Engine - Pistons

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

Engine - Camshaft

Location	Overhead	
Material & mass kg (weight, lbs.)	Post-hardened nodular iron 2.68 (5.9)	
Drive type	Belt	
Chain/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.

(a) 91 octane or higher recommended for improved performance

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Vehicle Line **DODGE SPIRIT R/T**

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

METRIC (U.S. Customary)

Engine Description
Engine Code

**2.2L (135.0 in³) SMPI
16 V Turbo, EDS**

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, DOHC, front, transverse
Manufacturer	Chrysler
No. of cylinders	4
Bore	87.5 (3.44)
Stroke	92.0 (3.62)
Bore Spacing (C/L to C/L)	96.0 (3.78)
Cylinder block material & mass kg (lbs.) (machined)	Cast Iron 40.78 (89.9)
Cylinder block deck height	237.8 (9.36)
Cylinder block length	418 (16.46)
Deck clearance (minimum) (above or below block)	0.00
Cylinder head material & mass kg (lbs.)	Aluminum 20.19 (44.5)
Cylinder head volume (cm ³)	57
Cylinder liner material	N.A.
Head gasket thickness (compressed)	1.78 (.070)
Minimum combustion chamber total volume (cm ³)	65.08
Cyl. no. system (front to rear)*	L. Bank R to L as installed - 1, 2, 3, 4
	R. Bank --
Firing order	1, 3, 4, 2
Intake manifold material & mass [kg (lbs.)]**	Aluminum 3.68 (8.0)
Exhaust manifold material & mass [kg (lbs.)]**	Cast Iron 4.49 (9.9)
Ø Knock sensor (number & location)	
Fuel required, unleaded, diesel, etc.	Premium unleaded
Fuel antiknock index (R + M) ÷ 2	91 or higher (recommended) (a)
Ø Quantity	3
Engine mounts	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.) Natural Rubber
	Added isolation (sub-frame, crossmember, etc.) None
Total dressed engine mass (wt) dry***	167.38 (369.0)

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	High-silicon aluminum 385.05 (13.6)
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Engine - Camshaft

Location	Twin camshafts - cylinder head
Material & mass kg (weight, lbs.)	Post-hardened nodular iron Intake: 3.2 (7.0) / Exhaust: 3.1 (6.9)
Drive type	Chain/belt
	Width/pitch
	30.0/9.52 (1.18/0.375)

* 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.

(a) 87 Octane or higher acceptable

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Engine Description
Engine Code

**3.0L (181.4 in³), MPI
EFA**

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	V-6, 60°, SOHC, front, transverse
Manufacturer	Mitsubishi Motors Corp.
No. of cylinders	6
Bore	91.1 (3.59)
Stroke	76.0 (2.99)
Bore Spacing (C/L to C/L)	108 (4.25)
Cylinder block material & mass kg (lbs.) (machined)	Cast iron 47.50 (104.5)
Cylinder block deck height	210.5 (8.29)
Cylinder block length	384 (15.12)
Deck clearance (minimum) (above or below block)	0.44 (0.017) below
Cylinder head material & mass kg (lbs.)	Aluminum alloy 12.45 (27.3)
Cylinder head volume (cm ³)	46.3 ± 0.666
Cylinder liner material	N.A.
Head gasket thickness (compressed)	1.22 - 1.38 (0.047 - 0.052)
Minimum combustion chamber total volume (cm ³)	63.3
Cyl. no. system	L. Bank 2, 4, 6
(front to rear)*	R. Bank 1, 3, 5
Firing order	1, 2, 3, 4, 5, 6
Intake manifold material & mass [kg (lbs.)]**	Die cast aluminum 7.60 (16.7)
Exhaust manifold material & mass [kg (lbs.)]**	Nodular cast iron 9.59 (21.1)
Ø Knock sensor (number & location)	
Fuel required, unleaded, diesel, etc.	Regular unleaded
Fuel antiknock index (R + M) ÷ 2	87 Octane or higher
Ø Quantity	3
Engine mounts	Natural Rubber
Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	
Added isolation (sub-frame, crossmember, etc.)	None
Total dressed engine mass (wt) dry***	168.18 (370.0)

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy 374.21 (13.2)
--	---------------------------------

Engine - Camshaft

Location	Cylinder head
Material & mass, kg (weight, lbs.)	Cast iron 4.64 (10.2)
Drive type	Belt
Chain/belt	
Width/pitch	25.4 / 9.52 (1.0 / 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 **DODGE SPIRIT**

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

METRIC (U.S. Customary)

Engine Description
Engine Code

**3.0L (181.4 in³), MPI
EFA**

**2.5L (153.0 in³), EFI
EDM**

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Std.	
Valves	Number intake/exhaust	6/6
	Head O.D. intake/exhaust	42.9 - 43.1 / 34.9 - 35.1 (1.69 - 1.70 / 1.37 - 1.38)
		40.6 / 35.4 (1.60 / 1.39)

Engine - Connecting Rods

Material & Mass [kg., (weight lbs.)]*	Forged steel: 0.65 (1.4)	Forged steel: 0.41 (0.90)
Length (axes ϕ to ϕ) mm	141 (5.55)	151 (5.94)

Engine - Crankshaft

Material & Mass [kg., (weight lbs.)]*	Nodular iron : 15.10 (33.2)	Nodular iron 15.88 (35.0)
End thrust taken by bearing (no.)	Three	Three
Length & number of main bearings	470.8 (18.5) / Four	487.1 (19.2) / Five
Seal (material, one, two piece design, etc.)	Front	Polyacrylic / One piece
	Rear	Fluorocarbon / One piece

Engine - Lubrication System

Normal oil pressure [kPa (psi) at eng. rpm]	241-690(35-100) @ 3000 rpm ^(a)	172-552(25-80) @ 3000 rpm ^(a)
Type of intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full flow	
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)	

Engine - Diesel Information

Diesel engine manufacturer	
Glow plug, current drain at 0° F	
Injector nozzle	Type
	Opening pres.[kPa (psi)]
Pre-chamber design	
Fuel inj. pump	Manufacturer
	Type
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

Turbo charger - Manufacturer	
Super charger - manufacturer	
Intercooler	

* Finished State

(a) Fully warmed

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued

9-15-90

Revised (●)

METRIC (U.S. Customary)

Engine Description

Engine Code

**2.5L (153.0 in³), SMPI Turbo
EDT**

**2.2L (135.0 in³), SMPI
16V Turbo, EDS**

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)

Std.

Valves	Number intake/exhaust	4/4	8/8
	Head O.D. intake/exhaust	40.6 / 35.4 (1.60 / 1.39)	33.9 / 29.3 (1.33 / 1.15)

Engine - Connecting Rods

Material & Mass [kg., (weight lbs.)]*

Forged steel: 0.41 (0.90)

SAE 1050M forged: 0.70 (1.55)

Length (axes ϕ to ϕ) mm

151 (5.94)

Engine - Crankshaft

Material & Mass [kg., (weight lbs.)]*

Forged steel 19.40 (42.7)

End thrust taken by bearing (no.)

Three

Length & number of main bearings

487.1 (19.2) / Five

Seal (material, one,

Front

Polyacrylic / One piece

two piece design, etc.)

Rear

Fluorocarbon / One piece

Engine - Lubrication System

Normal oil pressure [kPa (psi) at eng. rpm]

172-552 (25-80) @ 3000 rpm / Fully warmed

Type of intake (floating, stationary)

Stationary

Oil filter system (full flow, part, other)

Full flow

Capacity of c/case, less filter-refill-L (qt.)

3.8 (4.0)

Engine - Diesel Information

Diesel engine manufacturer

Glow plug, current drain at 0° F

Injector

Type

nozzle

Opening pres.[kPa (psi)]

Pre-chamber design

Fuel inj.

Manufacturer

pump

Type

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

Turbo charger - Manufacturer

M.H.I.

Garrett

Super charger - manufacturer

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Intercooler

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(a)

* Finished State

(a) Air-to-air, furnace brazed aluminum, integral with radiator.

MVMA Specifications

METRIC (U.S. Customary)

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

Engine Description
Engine Code

**2.5 L (153.0 in³), EFI
EDM**

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Standard			
Coolant fill location (rad, bottle)	Bottle			
Radiator cap relief valve pressure [kPa (psi)]	96-124 (14-18)			
Circulation	Choke, Pellet Operated			
thermostat	90(194)			
	Type (choke, bypass)			
	Type (centrifugal, other)			
	GPM 1000 pump rpm			
	Number of pumps			
Water pump	Drive (V-belt, other)			
	Bearing type			
	Impeller material			
	Housing material			
By-pass recirculation [type (inter., ext.)]	External			
Cooling system capacity	With heater - L(qt.)			
	With air cond. - L(qt.)			
	Opt. equipment [specify - L(qt.)]			
Water jackets full length of cyl. (yes, no)	Yes			
Water all around cylinder (yes, no)	No			
Water jackets open at head face (yes, no)	No			
Radiator core	Std. A/C, HD	Manual w/o A/C	Manual w A/C	Auto w/o A/C
	Type (cross-flow, etc.)	Cross Flow		
	Construction (fin & tube mechanical, braze, etc.)	Tube & Fin Spacer, Soldered, 1 Row		
	Material, mass [kg (wgt. lbs.)] *	4.14 (9.1) (a)	4.36 (9.6) (a)	4.45 (9.8) (a)
	Width	566.4 (22.3)		
	Height	377.1 (14.8)		
	Thickness	18 (0.7)		
	Fins per inch	13	18	13
Radiator end tank material	Nylon 66			
Fan	Std., elec., opt.	Electric		
	Number of blades & type (flex, solid, material)	8-Blade Plastic		
	Diameter & projected width	361 x 33 (14.2 x 1.3)		
	Ratio (fan to crankshaft rev.)	--		
	Fan cutout type	Electric Motor		
	Drive type (direct, remote)	--		
	RPM at idle (elec.)	1165	1740	1165
	Motor rating (wattage) (elec.)	53	165	53
	Motor switch (type & location) (elec.)	Thermistor, Water Box & AC clutch		
	Switch point (temp., pressure) (elec.)	99 °C (210 °F) (< 40 mph); 110 °C (230 °F) > 40 mph		
	Fan shroud (material)	Plastic		

* Mass (weight) shown is for assembly as purchased.
(a) Copper/Brass

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

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

METRIC (U.S. Customary)

Engine Description
Engine Code

**2.5 L (153.0 in³), SMPI Turbo
EDT**

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Standard			
Coolant fill location (rad, bottle)	Bottle			
Radiator cap relief valve pressure [kPa (psi)]	96-124 (14-18)			
Circulation	Choke, Pellet Operated			
thermostat	90(194)			
Type (choke, bypass)	Centrifugal			
Starts to open at °C (°F)	--			
Type (centrifugal, other)	One			
GPM 1000 pump rpm	Multi-Groove Belt			
Number of pumps	Integral Ball Bearing			
Drive (V-belt, other)	Steel			
Bearing type	Cast Aluminum			
Impeller material	External			
Housing material	8.5(9.0)			
By-pass recirculation [type (inter., ext.)]	8.5(9.0)			
Cooling system	--			
capacity	Yes			
Opt. equipment [specify - L(qt.)]	No			
Water jackets full length of cyl. (yes, no)	No			
Water all around cylinder (yes, no)	No			
Water jackets open at head face (yes, no)	No			
Std. A/C, HD	Manual w/o A/C	Manual w A/C	Auto w/o A/C	Auto w A/C
Type (cross-flow, etc.)	Cross Flow			
Construction (fin & tube mechanical, braze, etc.)	Tube & Fin Spacer, Soldered, 1 Row			
Material, mass [kg (wgt.lbs.)] (a)	4.14 (9.1) (b)	4.77 (10.5) (b)	4.45 (9.8) (b)	5.09 (11.2) (b)
Width	566.4 (22.3)			
Height	377.1 (14.8)			
Thickness	18 (0.7)			
Fins per inch	13	20	13	20
Radiator end tank material	Nylon 66			
Std. elec., opt.	Electric			
Number of blades & type (flex, solid, material)	8-Blade Plastic			
Diameter & projected width	361 x 33 (14.2 x 1.3)			
Ratio (fan to crankshaft rev.)	--			
Fan cutout type	Electric Motor			
Drive type (direct, remote)	--			
RPM at idle (elec.)	1740	1990	1740	1990
Motor rating (wattage) (elec.)	165	222	165	222
Motor switch (type & location) (elec.)	Thermistor, Water Box & AC clutch			
Switch point (temp., pressure) (elec.)	99 °C (210 °F) <40 mph) 104 °C (220 °F) >40 mph			
Fan shroud (material)	Plastic			

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

(b) Copper/Brass

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description
Engine Code

**3.0L (181.4in³), MPI
EFA**

Engine - Cooling System

Engine - Cooling System		Standard	
Coolant recovery system (std., opt., n.a.)		Bottle	
Coolant fill location (rad, bottle)		96 - 124 (14 - 18)	
Radiator cap relief valve pressure [kPa (psi)]		Choke, Pellet Operated	
Circulation	Type (choke, bypass)	90 (194)	
thermostat	Starts to open at °C (°F)	Centrifugal	
Water pump	Type (centifugal, other)	Not Available	
	GPM 1000 pump rpm	One	
	Number of pumps	Multi-Groove Belt	
	Drive (V-belt, other)	Integral Ball Bearing	
	Bearing type	Steel	
	Impeller material	Cast Aluminum	
	Housing material	External	
	By-pass recirculation [type (inter., ext.)]		9.0 (9.5)
Cooling system capacity	With heater - L(qt.)	9.0 (9.5)	
	With air cond. - L(qt.)	--	
	Opt. equipment [specify - L(qt.)]	Yes	
Water jackets full length of cyl. (yes, no)		No	
Water all around cylinder (yes, no)		No	
Water jackets open at head face (yes, no)		w/o A/C	
Radiator core	Std. A/C, HD	w A/C	
	Type (cross-flow, etc.)	Cross Flow	
	Construction (fin & tube mechanical, braze, etc.)	Tube and Fin Spacer, Soldered, Single Row	
	Material, mass [kg (wgt.lbs.)] *	Copper/Brass 4.14 (9.1)	Copper/Brass 4.36 (9.6)
	Width	566.4 (22.3)	
	Height	377.1 (14.8)	
	Thickness	18 (0.7)	
	Fins per inch	13	18
	Radiator end tank material		Nylon 66
Fan	Std., elec., opt.	Electric	
	Number of blades & type (flex, solid, material)	8 Blade - Plastic	
	Diameter & projected width	361 x 33 (14.2 x 1.3)	
	Ratio (fan to crankshaft rev.)	--	
	Fan cutout type	Electric Motor	
	Drive type (direct, remote)	--	
	RPM at idle (elec.)	1805	
	Motor rating (wattage) (elec.)	172	
	Motor switch (type & location) (elec.)	Thermistor, Water Box and A/C clutch	
	Switch point (temp., pressure) (elec.)	93.3° C (200° F); 99° C (210° F)	
	Fan shroud (material)	Plastic	

* Mass (weight) shown is for purchased assembly

MVMA Specifications

Vehicle Line **DODGE SPIRIT R/T**
 Model Year **1991** Issued **9-15-90** Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

2.2L (135.0 in³)
Turbo 16-V
EDS

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Standard
Coolant fill location (rad, bottle)	Bottle
Radiator cap relief valve pressure [kPa (psi)]	96-124(14-18)
Circulation	Choke, Pellet Operated
thermostat	90.6(195)
Type (centrifugal, other)	Centrifugal
GPM 1000 pump rpm	--
Number of pumps	One
Drive (V-belt, other)	Multi-Groove Belt
Bearing type	Integral Ball Bearing
Impeller material	Steel
Housing material	Cast Aluminum
By-pass recirculation [type (inter., ext.)]	External
Cooling system	With heater - L(qt.) 8.5(9.0)
capacity	With air cond. - L(qt.) 8.5(9.0)
	Opt. equipment [specify - L(qt.)] --
Water jackets full length of cyl. (yes, no)	Yes
Water all around cylinder (yes, no)	No
Water jackets open at head face (yes, no)	No
Std. A/C, HD	Standard
Type (cross-flow, etc.)	Cross Flow
Construction (fin & tube mechanical, braze, etc.)	Tube & Fin Spacer, Soldered, Double Row
Material, mass [kg (wgt.lbs.)]	Copper/Brass 7.73(17.0)
Width	404.5 (15.93)
Height	366.6(14.33)
Thickness	31.75(1.25)
Fins per inch	21
Radiator end tank material	Nylon 66
Std., elec., opt.	Electric
Number of blades & type (flex, solid, material)	5-Blade Plastic
Diameter & projected width	370(14.5) / 48(1.9)
Ratio (fan to crankshaft rev.)	--
Fan cutout type	Electric Motor
Drive type (direct, remote)	--
RPM at idle (elec.)	2200
Motor rating (wattage) (elec.)	200
Motor switch (type & location) (elec.)	(a)
Switch point (temp., pressure) (elec.)	(b)
Fan shroud (material)	Plastic

- (a) Thermistor, Water Box, AC clutch & turbocharger
 (b) 99°C(210°F) < 40 mph; 104°C(220°F) > 40 mph
 (c) 93.3°C (200°F) < 40 mph; 99°C(210°F) > 40 mph

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (•)

METRIC (U.S. Customary)

Engine Description
Engine Code

2.5 L (153.0 in³)
EFI, EDM

2.5 L (153.0 in³)
SMPI Turbo, EDT

3.0L (181.4 in³)
MPI, EFA

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	(b)	Holly/Bosch/Nikk/Nippondenso
Carburetor no. of barrels		N.A.		
Idle A/F mix.		N.A.		
Fuel Injection	Point of injection (no.)	Throttle body (1)	Intake ports (4)	Intake ports (6)
	Constant, pulse, flow	Pulse		
	Control (electronic, mech.)	Electronic		
	System pressure [kPa (psi)]	270 (39.1)	379.6 (55.1)	331 (48)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	850	950	800
	Automatic	850/Neutral	900/Neutral	700/Drive - 800/Neutral
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water	None	None
Air cleaner type		Oil wetted paper element		
Fuel filter (type/location)		Paper element; stainless steel can; inline underbody		
Fuel pump	Type (elec. or mech.)	Electric		
	Location (eng., tank)	In fuel tank		
	Pressure range [kPa (psi)]	N.A.		
	Flow rate at regulated pressure (L (gal) / hr @ kPa (psi))	96-179 (25-47) @ 12V & 39psi	90-176 (24-46) @ 12V & 55psi	92-176 (24-47) @ 12V & 48psi

Fuel Tank

Capacity refill L (gallons)		61 (16.0)		
Location (describe)		Forward of axle		
Attachment		Galvanized or terne plated steel strap to floor pan		
Material & Mass [kg (weight lbs.)]		Terne plated steel 11.2 (24.7) (a)		
Filler pipe	Location & material	Right rear quarter panel, lead dipped steel		
	Connection to tank	Rubber grommet		
Fuel line (material)		Duplex coated steel		
Fuel hose (material)		Fuel resistant rubber		
Return line (material)		Duplex coated steel		
Vapor line (material)		Duplex coated steel		
Extended range tank	Opt., n.a.			
	Capacity [L (gallons)]			
	Location & material			
	Attachment			
Auxiliary tank	Opt., n.a.			
	Capacity [L (gallons)]			
	Location & material			
	Attachment			
	Selector switch or valve			
	Separate fill			

(a) Includes tank-mounted fuel pump

(b) Holly/Bosch/Siemans Bendix/McGuane

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (•)

METRIC (U.S. Customary)

Engine Description

Engine Code

**2.2L (135.0 in³) 16V Turbo,
EDS**

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
Carburetor no. of barrels		N.A.
Idle A/F mix.		N.A.
Fuel Injection	Point of injection (no.)	Intake Ports (4)
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure [kPa (psi)]	379.6 (55.1)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	900
	Automatic	N.A.
Intake manifold heat control (exhaust or water thermostatic or fixed)		None
Air cleaner type		Oil wetted paper element
Fuel filter (type/location)		Paper element; Stainless steel canister; Inline underbody
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	In fuel tank
	Pressure range [kPa (psi)]	N.A.
	Flow rate at regulated pressure (L (gal) / hr @ kPa (psi))	103-176(27-48) @ 12V & 55psi

Fuel Tank

Capacity refill L (gallons)		53 (14)
Location (describe)		Forward of axle
Attachment		Galvanized or terne plated steel strap to floor pan
Material & Mass [kg (weight lbs.)]		Terne plated steel 10.20 (22.5) (a)
Filler pipe	Location & material	Right rear quarter panel, lead dipped steel tube
	Connection to tank	Rubber grommet
Fuel line (material)		Duplex coated steel
Fuel hose (material)		Fuel resistant rubber
Return line (material)		Duplex coated steel
Vapor line (material)		Duplex coated steel
Extended range tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
	Selector switch or valve	
Separate fill		

(a) Includes tank-mounted fuel pump

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Engine Description

Engine Code

2.5L (153.0in³) TBI-EFI, EDM

49 states, man.

49 states, auto.

Cal., manual

Cal., automatic

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		exhaust gas recirculation, engine modifications, catalytic converter				
	Air injection	Pump or pulse	aspirator				
		Driven by	pulse	N.A.			
		Air distribution (head, manifold, etc.)	exhaust pressure	N.A.			
		Point of entry	fixed	N.A.			
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	exh. backpressure -controlled flow	N.A.	exhaust backpressure-controlled flow		
		Exhaust source	exhaust manifold branch				
		Point of exhaust injection (spacer, carburetor manifold, other)	intake manifold plenum	N.A.	intake manifold plenum		
	Catalytic Converter	Type	3 - way + oxidation	3-way			
		Number of	one				
		Location(s)	below exhaust manifold				
		Volume [L(in. ³)]	1.23 + 0.74 (75 + 45)	1.23 + 0.9 (75 + 55)			
		Substrate type	monolithic				
		Noble metal type	Pt:Rh + Pd (a)	Platinum:Rhodium			
		Noble metal concentration (g/cm ³)	0.00061:0.00009 + 0.00085	0.00061:0.00009 + 0.00061:0.00007		0.00061:0.00018	
	Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		closed induction system			
		Energy source (manifold vacuum, carburetor, other)		manifold vacuum			
		Discharges (to intake manifold, other)		intake manifold			
		Air inlet (breather cap, other)		air cleaner			
Evaporative emission control	Vapor vented to (crankcase, canister, other)	Fuel tank	canister				
		Carburetor	--				
	Vapor storage provision		canister				
Electronic system	Closed loop (yes/no)		yes - hot engine				
	Open loop (yes/no)		yes - cold engine				

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		single			
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & mass [kg. (weight lbs.)]		one, reverse flow aluminized steel 5.4 (11.9) - includes tail-pipe below			
Resonator no. & type		one, straight through			
Exhaust pipe	Branch o. d., wall thickness	Into catalyst 50.8 x 1.4 (2.00 x 0.055)			
	Main o. d., wall thickness	Out of catalyst 50.8 x 1.4 (2.00 x 0.055)			
	Material & mass [kg. (weight lbs.)]	5.70 (12.6) (b)	6.11 (13.5) (b)	5.70 (12.6) (b)	5.83 (12.8) (b)
Intermediate pipe	o. d., & wall thickness	47.8 x 1.4 (1.88 x 0.055)			
	Material & mass [kg. (weight lbs.)]	aluminized steel 3.8 (8.3) (includes resonator)			
Tail pipe	o. d., & wall thickness	47.8 x 1.4 (1.88 x 0.055)			
	Material & mass [kg. (weight lbs.)]	aluminized steel (see muffler assembly)			

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

(b) stainless steel (Includes catalytic converter)

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (•)

METRIC (U.S. Customary)

Engine Description

2.5 L (153.0 in³) Turbo, EDT

Engine Code

49 States

California

Vehicle Emission Control

	Type (air injection, engine modifications, other)		engine modifications, catalytic converter	engine mod's, catalytic converter, exhaust gas recirculation
Exhaust Emission Control	Air injection	Pump or pulse	none	
		Driven by	N.A.	
		Air distribution (head, manifold, etc.)	N.A.	
		Point of entry	N.A.	
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	none	exhaust back pressure controlled flow
		Exhaust source	N.A. turbine housing outlet, above flange	
		Point of exhaust injection (spacer, carburetor, manifold, other)	N.A.	intake manifold
	Catalytic Converter	Type	3-way	
		Number of	one	
		Location(s)		
		Volume [L(in. ³)]	under floor	
		Substrate type	1.80 (110)	
		Noble metal type	monolithic	
		Noble metal concentration (g/cm ³)	Platinum:Rhodium	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		0.00061:0.00011	0.00061:0.00018
	Energy source (manifold vacuum, carburetor, other)		closed induction system	
	Discharges (to intake manifold, other)		intake manifold vacuum	
	Air inlet (breather cap, other)		intake manifold	
Evaporative emission control	Vapor vented to (crankcase, canister, other)	Fuel tank	air cleaner	
		Carburetor	canister	
	Vapor storage provision		N.A.	
Electronic system	Closed loop (yes/no)		canister	
	Open loop (yes/no)		yes - hot engine	yes - cold engine

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & mass [kg. (weight lbs.)]		one, reverse flow aluminized steel 6.1 (13.5)
Resonator no. & type		one, straight through
Exhaust pipe	Branch o. d., wall thickness	none
	Main o. d., wall thickness	63.5 x 1.4 (2.50 x 0.055)
	Material & mass [kg. (weight lbs.)]	aluminized steel 1.98 (4.4)
Intermediate pipe	o. d., & wall thickness	57.2 x 1.4 (2.25 x 0.055)
	Material & mass [kg. (weight lbs.)]	stainless steel 7.6 (16.7) (a)
Tail pipe	o. d., & wall thickness	50.8 x 1.4 (2.0 x 0.055)
	Material & mass [kg. (weight lbs.)]	aluminized steel 1.(2.71)

(a) includes converter and resonator

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Engine Description

Engine Code

3.0 L (181.4 in³), EFA

49 States

California

Vehicle Emission Control

	Type (air injection, engine modifications, other)		engine modifications, catalytic converter	engine mod's, catalytic converter, exhaust gas recirculation
Exhaust Emission Control	Air Injection	Pump or pulse	none	
		Driven by	N.A.	
		Air distribution (head, manifold, etc.)	N.A.	
		Point of entry	N.A.	
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	none	exhaust back pressure controlled flow
		Exhaust source	N.A.	exhaust manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	N.A.	intake manifold
	Catalytic Converter	Type	3-way	
		Number of	one	
		Location(s)	under floor	
		Volume [L(in. ³)]	2.13 (130)	
		Substrate type	monolithic	
		Noble metal type	Platinum: Rhodium	
		Noble metal concentration (g/cm ³)	0.00061: 0.00009	0.00061: 0.00018
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		closed induction system	
	Energy source (manifold vacuum, carburetor, other)		intake manifold vacuum	
	Discharges (to intake manifold, other)		intake manifold	
	Air inlet (breather cap, other)		air cleaner	
Evaporative emission control	Vapor vented to (crankcase, canister, other)	Fuel tank	canister	
		Carburetor	N.A.	
Electronic system	Vapor storage provision		canister	
	Closed loop (yes/no)		yes - hot engine	
	Open loop (yes/no)		yes - cold engine	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & mass [kg. (weight lbs.)]		one, reverse flow, aluminized steel 5.8 (12.8)
Resonator no. & type		one, straight through
Exhaust pipe	Branch o. d., wall thickness	N.A.
	Main o. d., wall thickness	63.5 x 1.8 (2.5 x 0.071)
	Material & mass [kg. (weight lbs.)]	stainless steel 2.39 (5.30)
Intermediate pipe	o. d., & wall thickness	57.2 x 1.4 (2.25 x 0.055)
	Material & mass [kg. (weight lbs.)]	stainless steel 1.81 (3.98)
Tail pipe	o. d., & wall thickness	50.8 x 1.4 (2.0 x 0.055)
	Material & mass [kg. (weight lbs.)]	aluminized steel 1.23 (2.71)

(a) includes converter and resonator

MVMA Specifications

Vehicle Line **DODGE SPIRIT R/T**

Model Year **1991**

Issued **9-15-90**

Revised (•)

METRIC (U.S. Customary)

Engine Description

Engine Code

**2.2 L (135.0 in³) 16 V Turbo
EDS**

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		engine modifications, catalytic converter
	Air Injection	Pump or pulse	none
		Driven by	N.A.
		Air distribution (head, manifold, etc.)	N.A.
		Point of entry	N.A.
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	none
		Exhaust source	N.A.
		Point of exhaust injection (spacer, carburetor, manifold, other)	N.A.
	Catalytic Converter	Type	3-way
		Number of	one
		Location(s)	under floor
		Volume [L(in. ³)]	1.80 (110)
		Substrate type	monolithic
		Noble metal type	Platinum: Rhodium
		Noble metal concentration (g/cm ³)	0.00061: 0.00011
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		closed induction system
	Energy source (manifold vacuum, carburetor, other)		intake manifold vacuum
	Discharges (to intake manifold, other)		intake manifold
	Air inlet (breather cap, other)		air cleaner
Evaporative emission control	Vapor vented to (crankcase, canister, other)	Fuel tank	canister
		Carburetor	N.A.
	Vapor storage provision		canister
Electronic system	Closed loop (yes/no)		yes - hot engine
	Open loop (yes/no)		yes - cold engine

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & mass [kg. (weight lbs.)]		one, reverse flow aluminized steel 6.4 (14.1)
Resonator no. & type		none
Exhaust pipe	Branch o. d., wall thickness	N.A.
	Main o. d., wall thickness	63.5 x 1.4 (2.5 x 0.055)
	Material & mass [kg. (weight lbs.)]	stainless steel 1.96 (4.3)
Intermediate pipe	o. d., & wall thickness	57.2 x 1.4 (2.25 x 0.055)
	Material & mass [kg. (weight lbs.)]	stainless steel 6.5 (14.3) (includes catalytic converter)
Tail pipe	o. d., & wall thickness	50.8 x 1.1 (2.0 x 0.043)
	Material & mass [kg. (weight lbs.)]	aluminized steel (see muffler assembly)

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised(•)

METRIC (U.S. Customary)

Engine Description

Engine Code

2.5L (153.0 in³) / EFI
EDM

2.5L (153.0 in³) / TURBO I, SMPI
EDT(Low Output)

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

Manual 3-speed (manufacturer/country)	N.A.
Manual 4-speed (manufacturer/country)	N.A.
Manual 5-speed (manufacturer/country)	Std./ New Venture Gear/U.S.
Automatic (manufacturer/country)	Opt./Chrysler/U.S.
Automatic overdrive (manufacturer/country)	N.A.

Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.29
	2nd	2.08
	3rd	1.45
	4th	1.04
	5th	0.72
	Reverse	3.14
Synchronous meshing (specify gears)		All Forward Gears
Shift lever location		Floor
Trans. case mat'l. & mass kg.(lbs.)*		46.36 (102.0) 380 Aluminum Die Cast
Lubricant	Capacity [L (pt.)]	2.1 (4.3)
	Type recommended	API SG/CC SAE 5W-30

Clutch (Manual Transmission)

Clutch manufacturer	Fichtel & Sachs	
Clutch type (dry, wet; single, multiple disc)	Dry Disc, single	
Linkage (hydraulic, cable, rod, lever, other)	Cable	
Max. pedal effort (nom. spring load, new) N (lbs.)	Depressed**	100 (23)
	Released***	116 (26)
		112 (25)
		125 (28)
Assist (spring, power/percent, nominal)	None	
Type pressure plate springs	Belleville	
Total spring load (nominal, new) N (lbs.)	4700 (1057)	5750 (1292)
Clutch facing	Facing mfr. & material coding	Valeo F-202
	Facing material & construction	Fiberglass, Woven
	Rivets per facing	8
	Outside x inside dia. (nominal)	228 x 150 (8.98 x 5.91)
	Total eff. area [cm ² (in ²)]****	463.13 (71.8)
	Thickness (pressure plate side/ fly wheel side)	3.4/3.4 (0.13/0.13)
	Rivet depth (pressure plate side/ fly wheel side)	1.1/1.1 (0.043/0.043) min.
	Engagement cushion method	Wave spring segments
Release bearing type & method lub.	Angular contact ball bearing permanently lubed with grease	
Torsional damping method, springs, hysteresis	Coil springs and friction fiber washers	

* Dry weight, includes shift linkage

** Hold down effort

*** Maximum effort at clutch release point of travel.

**** Includes both clutch facings.

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

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

METRIC (U.S. Customary)

Engine Description
Engine Code

**3.0 L (181.4 in³), MPI
EFA**

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

Manual 3-speed (manufacturer/country)	N.A.
Manual 4-speed (manufacturer/country)	N.A.
Manual 5-speed manufacturer/country)	N.A.
Automatic (manufacturer/country)	N.A.
Automatic overdrive (manufacturer/country)	Opt. / Chrysler / United States

Manual Transmission/Transaxle

Manual Transmission Worksheet		
Number of forward speeds		
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	5th	
	Reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Trans. case mat'l. & mass kg.(lbs.)*		
Lubricant	Capacity [L (pt.)]	
	Type recommended	

Clutch (Manual Transmission)

Clutch manufacturer		
Clutch type (dry, wet; single,multiple disc)		
Linkage (hydraulic,cable,rod,lever,other)		
Max. pedal effort (nom.	Depressed	
spring load, new) N (lbs.)	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		
Total spring load (nominal, new) N (lbs.)		
Clutch facing	Facing mfr. & material coding	
	Facing material & construction	
	Rivets per facing	
	Outside x inside dia. (nominal)	
	Total eff. area [cm ² (in ²)]	
	Thickness (pressure plate side/ fly wheel side)	
	Rivet depth (pressure plate side/ fly wheel side)	
	Engagement cushion method	
Release bearing type & method lub.		
Torsional damping method, springs, hysteresis		

* Dry weight, includes shift linkage

MVMA Specifications

Vehicle Line **DODGE SPIRIT R/T**

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

METRIC (U.S. Customary)

Engine Description
Engine Code

**2.2 L (135.0 in³) DOHC 16 Valve
EDS**

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

Manual 3-speed (manufacturer/country)	N.A.
Manual 4-speed (manufacturer/country)	N.A.
Manual 5-speed (manufacturer/country)	Std./ New Venture Gear/U. S.
Automatic (manufacturer/country)	N.A.
Automatic overdrive (manufacturer/country)	N.A.

Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.00
	2nd	1.89
	3rd	1.28
	4th	0.94
	5th	0.71
	Reverse	3.14
Synchronous meshing (specify gears)		All Forward Gears
Shift lever location		Floor
Trans. case mat'l. & mass kg.(lbs.)*		47.95 (105.5) 380 Aluminum Die Cast
Lubricant	Capacity [L (pt.)]	2.1 (4.3)
	Type recommended	API SG/CC SAE 5W-30

Clutch (Manual Transmission)

Clutch manufacturer	Fichtel & Sachs	
Clutch type (dry, wet; single, multiple disc)	Dry disc, single	
Linkage (hydraulic, cable, rod, lever, other)	Cable	
Max. pedal effort (nom. spring load, new) N (lbs.)	Depressed**	100 (27)
	Released***	125 (30)
Assist (spring, power/percent, nominal)	None	
Type pressure plate springs	Belleville	
Total spring load (nominal, new) N (lbs.)	6700 (1506)	
Clutch facing	Facing mfg. & material coding	Valeo F-202
	Facing material & construction	fiberglass, woven
	Rivets per facing	8
	Outside x inside dia. (nominal)	228 x 150 (8.98 x 5.91)
	Total eff. area [cm ² (in ²)]****	463.13 (71.8)
	Thickness (pressure plate side/ fly wheel side)	3.2 / 3.2 (0.126 / 0.126)
	Rivet depth (pressure plate side/ fly wheel side)	1.0 / 1.0 (0.04 / 0.04) min.
	Engagement cushion method	wave spring segments
Release bearing type & method lub.	Angular-contract ball bearing, permanently lubed with grease	
Torsional damping method, springs, hysteresis	coil springs and friction washers	

* Dry weight, includes shift linkage

** Hold down effort

*** Maximum effort at clutch release point of travel

**** Includes both clutch facings

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

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**

Automatic Transmission/Transaxle

Trade name		Torqueflite	
Type and special features (describe)		Automatically-operated planetary gear transmission and parallel axis final drive	
		Electronic lock up torque converter	Electronic lock up torque converter
Gear selector	Location (column, floor, other)	Floor or column mounted	
	Ltr./No. designation (e.g. PRND21)	PRND21	
	Shift interlock (yes, no, describe)	No	
Gear ratios	1st	2.69	
	2nd	1.55	
	3rd	1.00	
	4th	--	
	Reverse	2.10	
Max. upshift speed - drive range [km/h (mph)]		129 (80)	113 (70)
Max. kickdown speed - drive range [km/h (mph)]		119 (74)	105 (65)
Min. overdrive speed [km/h (mph)]		--	
Torque converter	Number of elements	Three	
	Max. ratio at stall	2.00	2.25
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	241 (9.5)	
	Capacity factor "K"	260	205
Lubricant	Capacity [refill L (pt.)]	8.40 (17.75) - torque converter, transmission and differential	
	Type recommended	Mopar ATF Plus (Auto trans. fluid - Type 7176) (a)	
Oil cooler (std,opt,n.a.,internal,external,air,liquid)		Std. - liquid, in radiator	
Transmission case material & mass [kg. (lbs.)]**		Die cast aluminum - 58.06 (128.0) (b) w/o T.C.	

All Wheel / 4 Wheel Drive

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

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

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

METRIC (U.S. Customary)

Engine Description
Engine Code

**3.0L (181.0 in.³), MPI
EFA**

Automatic Transmission/Transaxle

Trade name		Ultradrive
Type and special features (describe)		Electronically-operated, 4 speed overdrive, planetary gear transmission with lock-up torque converter and parallel axis final drive
Gear selector	Location (column, floor, other)	Steering column
	Ltr./No. designation (e.g. PRND21)	P-R-N-OD-3-L
	Shift interlock (yes, no, describe)	No
Gear ratios	1st	2.84
	2nd	1.57
	3rd	1.00
	4th	0.69
	Reverse	2.21
Max. upshift speed - drive range [km/h (mph)]		131 (81)
Max. kickdown speed - drive range [km/h (mph)]		120 (75)
Min. overdrive speed [km/h (mph)]		40 (25)
Torque converter	Number of elements	Three
	Max. ratio at stall	2.25 : 1
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	241 (9.5)
	Capacity factor "K"	205
Lubricant	Capacity [refill L (pt.)]	8.64 (18.25) - Torque converter, Transmission and Differential
	Type recommended	Mopar ATF Plus (Auto trans. fluid - Type 7176) (a)
Oil cooler (std,opt,n.a.,internal,external,air,liquid)		Std. - external, air
Transmission case material & mass [kg. (lbs.)]**		Die cast aluminum - 64.86 (143.0) (b) w/o T.C.

All Wheel / 4 Wheel Drive

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

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Engine Description
Engine Code

**3.0L (181 in³), MPI
EFA**

**2.5L (153.0 in³), EFI
EDM**

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

Effective final drive ratio (or overall top gear ratio)			2.52	3.02 (auto.)	2.51 (man.)
Transfer ratio and method (chain, gear, etc.)			1.05, gear	1.06, gear	--
Front	Ring gear o.d.		191.3 (7.53)	184.56 (7.26)	197.76 (7.79)
drive	No. of	Pinion	17	21	14
unit	teeth	Ring gear	59	60	49

Front Drive Unit

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

Axle Shafts - Front Wheel Drive

Manufacturer and number used			Two		
Type (straight, solid bar, tubular, etc.)		Left	Solid bar	Solid bar	Solid bar
		Right	Solid bar	Tube	Solid bar
Outer diam. x length* x wall thickness	Manual transaxle	Left	--	27.3 x 313(1.07 x 12.3)	--
		Right	--	40.5 x 580.3(1.59 x 22.8)	--
	Automatic transaxle	Left	27.3 x 313 (1.07 x 12.3)	--	27.3 x 313(1.07 x 12.3)
		Right	27.3 x 580.3 (1.07 x 22.8)	--	27.3 x 580.3(1.07 x 22.8)
	Optional transaxle	Left	--	--	--
		Right	--	--	--
Slip yoke	Type		--		
	Number of teeth		--		
	Spline o.d.		--		
Universal joints	Make and mfg. no.	Inner	C-2650 Tripod	C-2650 Tripod	
		Outer	98 LAC	98 LAC	
	Number used		Two		
	Type, size, plunge	Inner	Tripod plunge		
		Outer	Rzeppa - fixed		
	Attach (u-bolt, clamp, etc.)		--		
	Bearing	Type (plain, anti-friction)	--		
		Lubrication (fitting, prepack)	Prepack		
Drive taken through (torque tube, arms or springs)			--		
Torque taken through (torque tube, arms or springs)			--		

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

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Engine Description

2.5L (153.0 in³) - Turbo I, EDT

Engine Code

Manual

Automatic

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 drive unit	Ring gear o.d.		197.76 (7.79)	184.5 (7.26)
	No. of teeth	Pinion	14	21
		Ring gear	49	60

Front Drive Unit

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

Axle Shafts - Front Wheel Drive

Manufacturer and number used			Two	
Type (straight, solid bar, tubular, etc.)		Left	Solid bar	Soid bar
		Right	Solid bar	Tube
Outer diam. x length* x wall thickness	Manual transaxle	Left	32.1 x 313 (1.26 x 12.3)	--
		Right	32.1 x 313 (1.26 x 12.3)	--
	Automatic transaxle	Left	--	27.3 x 313 (1.07 x 12.3)
		Right	--	40.5 x 580.3 (1.59 x 22.8)
	Optional transaxle	Left	--	--
		Right	--	--
Slip yoke	Type		--	
	Number of teeth		--	
	Spline o.d.		--	
Universal joints	Make and mfg. no.		Inner	C-2650 Tripod
			Outer	98 LAC
	Number used		Two	
	Type, size, plunge		Inner	Tripod plunge
			Outer	Rzeppa - fixed
	Attach (u-bolt, clamp, etc.)		--	
	Bearing	Type (plain, anti-friction)	--	
		Lubrication (fitting, prepack)	Prepack	
Drive taken through (torque tube, arms or springs)			--	
Torque taken through (torque tube, arms or springs)			--	

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

MVMA Specifications

Vehicle Line **DODGE SPIRIT R/T**

Model Year **1991**

Issued **9-15-90**

Revised (•)

METRIC (U.S. Customary)

Engine Description

Engine Code

**2.2L (135.0 in³), 16V / DOHC
EDS**

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

Effective final drive ratio (or overall top gear ratio)			2.74 (manual trans only)
Transfer ratio and method (chain, gear, etc.)			--
Front	Ring gear o.d.		203.02 (7.99)
drive	No. of	Pinion	13
unit	teeth	Ring gear	50

Front Drive Unit

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

Axle Shafts - Front Wheel Drive

Manufacturer and number used			Two
Type (straight, solid bar, tubular, etc.)		Left	Solid bar
		Right	Solid bar
Outer diam. x length* x wall thickness	Manual transaxle	Left	32 x 325.9 (1.26 x 12.83)
		Right	32 x 325.9 (1.26 x 12.83)
	Automatic transaxle	Left	--
		Right	--
	Optional transaxle	Left	--
		Right	--
Slip yoke	Type		--
	Number of teeth		--
	Spline o.d.		--
Universal joints	Make and mfg. no.	Inner	GKN: G182
		Outer	GKN: 98 AC
	Number used		Two
	Type, size, plunge	Inner	Tripod plunge
		Outer	Rzeppa - fixed
	Attach (u-bolt, clamp, etc.)		--
	Bearing	Type (plain, anti-friction)	--
		Lubrication (fitting, prepack)	Prepack
Drive taken through (torque tube, arms or springs)			--
Torque taken through (torque tube, arms or springs)			--

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

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Body Type

Standard
Firm Ride and Handling - SDC

Limited Production Optional
Precision Feel - SDA

Suspension - General Including Electronic Controls

Car leveling	Standard / optional / not avail.	
	Manual / automatic control	
	Type (air / hydraulic)	
	Primary / assist spring	
	Rear only / 4 wheel leveling	
	Single / dual rate spring	
	Single / dual ride heights	
	Provision for jacking	
Shock absorber damping controls	Standard / optional / not avail.	
	Manual / automatic control	
	Number of damping rates	
	Type of actuation (manual / electric motor / air, etc.)	
	sensors	
	Lateral acceleration	
	Deceleration	
	Acceleration	
Shock absorber (front & rear)	Type	
	Make	
	Piston diameter	
	Rod diameter	

Gas charged - Hydraulic

Monroe

Frt. 32 (1.26) Rr. 30.2 (1.19)

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

Suspension - Front

Type & description		Iso- strut	
Travel*	Full jounce	72.6 (2.86)	67.1 (2.64)
	Full rebound	104.3 (4.11)	109.8 (4.32)
Spring	Type (coil, leaf, other) & material	Coil, AISI 5160 (Modified)	
	Insulators (type & material)	Compression: Rubber	
	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.)]	16.6 (95)	
	Rate at wheel [N/mm (lb./in.)]	20.1 (115)	
Stabilizer	Type (link, linkless, frameless)	Linkless	
	Material & bar diameter	AISI 1090 Spring steel 28.6 (1.125)	

Suspension - Rear

Type & description		Trailing flex-arm with track bar	
Travel*	Full jounce	64.6 (2.54)	52.2 (2.06)
	Full rebound	127.2 (5.01)	125.6 (4.94)
Spring	Type (coil, leaf, other) & material	Coil: AISI 5160 H Chromium steel	
	Size (length x width, coil design height & i.d., bar length & dia.)	229 x 102 I.D. (9.0 x 4.01)	
	Spring rate [N/mm (lb./in.)]	31.3 (180)	
	Rate at wheel [N/mm (lb./in.)]	20.3 (114)	
	Insulators (type & material)	Compression: Rubber	
	If leaf	No. of leaves	--
Stabilizer	Shackle (comp. or tens.)	--	
	Type (link, linkless, frameless)	Frameless ERW tube	
Material & bar diameter		80 ksi HSLA steel 28.6 O.D. (1.13)	
Track bar (type)		Channel	

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

MVMA Specifications

Vehicle Line **DODGE SPIRIT R/T**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Body Type

Standard
Maximum Performance - SDE

Suspension - General Including Electronic Controls

Car leveling	Standard / optional / not avail.	
	Manual / automatic control	
	Type (air / hydraulic)	
	Primary / assist spring	
	Rear only / 4 wheel leveling	
	Single / dual rate spring	
	Single / dual ride heights	
	Provision for jacking	
Shock absorber damping controls	Standard / optional / not avail.	
	Manual / automatic control	
	Number of damping rates	
	Type of actuation (manual / electric motor / air, etc.)	
	sensors	
	Lateral acceleration	
	Deceleration	
	Acceleration	
Shock absorber (front & rear)	Type	
	Make	
	Piston diameter	
	Rod diameter	

Gas charged - Hydraulic

Monroe

Front 32 (1.26) Rear 30.16 (1.19)

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

Suspension - Front

Type & description		
Travel*	Full jounce	Iso-strut 71.5 (2.81)
	Full rebound	105.4 (4.15)
Spring	Type (coil, leaf, other) & material	Coil: AISI 5160 H Chromium Steel
	Insulators (type & material)	Compression: Rubber
	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.)]	18.4 (105)
	Rate at wheel [N/mm (lb./in.)]	21.9 (125)
Stabilizer	Type (link, linkless, frameless)	Linkless
	Material & bar diameter	AISI 1090 Spring steel, 28.6 (1.13) O.D.

Suspension - Rear

Type & description		
Travel*	Full jounce	Trailing flex-arm with track bar 51.2 (1.81)
	Full rebound	126.6 (4.48)
Spring	Type (coil, leaf, other) & material	Coil: AISI 5160 H Chromium steel
	Size (length x width, coil design height & i.d., bar length & dia.)	229 x 102 I.D. (9.0 x 4.01)
	Spring rate [N/mm (lb./in.)]	33.3 (190)
	Rate at wheel [N/mm (lb./in.)]	21.0 (120)
	Insulators (type & material)	Compression: Rubber
	If leaf	No. of leaves
		Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	Frameless ERW tube
	Material & bar diameter	80 ksi HSLA steel, 28.6 (1.13) O.D.
Track bar (type)		Channel

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

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Body Type And / Or
Engine Displacement

Standard: AAD - H, P - 41

NA: AAD - S, X - 41

Brakes - Service

Description			Four-wheel hydraulic-actuated system	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		Disc	
	Rear (disc or drum)		Drum	
Valving type (proportion, delay, metering, other)			Dual proportioning valve	
Power brake (std., opt., n.a.)			Standard	
Booster type (remote, integral, vac., hyd., etc.)			Vacuum, tandem	
Vacuum	Source (inline, pump, etc.)		Intake manifold or Throttle body base	
	Reservoir (volume, in. ³) and source		--	
	Pump-type (elec., gear driven, belt driven)		--	
Traction control	Operational speed range			
	Type engine intervention (electronic, mech.)			
Anti-lock device	Front/rear (std., opt., n.a.)			
	Manufacturer			
	Type (electronic, mech.)			
	Number sensors or circuits			
	Number anti-lock hydraulic circuits			
	Integral or add-on system			
	Yaw control (yes, no)			
Hydraulic power source (elec., vac. mtr., pwr. strg.)				
Effective area [cm ² (in. ²)]* (F/R)			F: 203.93 (31.61) / R: 350 (54.25)	
Gross lining area [cm ² (in. ²)]**(F/R)			F: 222.6 (34.5) / R: 350 (54.25)	
Swept area [cm ² (in. ²)]*** (F/R)			F: 1329 (206) / R: 556 (86.19)	
Rotor	Outer working diameter	F/R	F: 258.5 (10.18) / R: N.A.	
	Inner working diameter	F/R	F: 158.0 (6.22) / R: N.A.	
	Thickness	F/R	F: 24.0 (0.945) / R: N.A.	
	Material Type (vented/solid)	F/R	F: damped cast iron, vented / R: N.A.	
Drum	Diameter & Width	F/R	F: N.A. / R: 220 (8.66) × 44.26 (1.74)	
	Type & Material	F/R	R: Cast composite	
Wheel cylinder bore			F: 54 (2.13); R: 15.87 (0.625)	
Master cylinder	Bore/stroke	F/R	22.2 (0.875) × 32.79 (1.291)	
Pedal arc ratio			3.28 : 1	
Line pressure at 445 N(100lb.) pedal load [kPa (psi)]			Power: 9584 (1390)	
Lining clearance		F/R	No major adjustment	
Brake lining	Front Wheel	Bonded or riveted (rivets/seg.)		Riveted, 6 / shoe
		Rivet size		7.54 (0.297) dia. × 8.48 (0.334)
		Manufacturer		Bendix
		Lining code *****		BX-HH-EE
		Material		Semi-metallic, non asbestos
		****	Primary or outboard	5918mm ² × 11.3 (9.17 in ² × 0.445)
		Size	Secondary or inboard	5211mm ² × 12.95 (8.08 in ² × 0.510)
		Shoe thickness (no lining)		Outer: 4.83 (0.190) ; Inner: 5.20 (0.205)
	Rear Wheel	Bonded or riveted (rivets/seg.)		Bonded
		Manufacturer		Nuturn
		Lining code *****		NU - 4 - FF
		Material		Non asbestos
		****	Primary or outboard	219.57 × 39.85 × 6.5 (8.644 × 1.569 × 0.256)
		Size	Secondary or inboard	219.57 × 39.85 × 6.5 (8.644 × 1.569 × 0.256)
		Shoe thickness (no lining)		2.28 (0.09)

* 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

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued

9-15-90

Revised (●)

METRIC (U.S. Customary)

Body Type And / Or
Engine Displacement

Optional: AAD - H, P, X - 41

Brakes - Service

Description			Four-wheel hydraulic-actuated system	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		Disc	
	Rear (disc or drum)		Disc	
Valving type (proportion, delay, metering, other)			Dual proportioning valve	
Power brake (std., opt., n.a.)			Standard	
Booster type (remote, integral, vac., hyd., etc.)			Vacuum, tandem	
Vacuum	Source (inline, pump, etc.)		Intake manifold	
	Reservoir (volume in. ³) and source		--	
	Pump-type (elec., gear driven, belt driven)		--	
Traction control	Operational speed range			
	Type engine intervention (electronic, mech.)			
Anti-lock device	Front/rear (std., opt., n.a.)		4-Wheel Optional	
	Manufacturer		Bendix	
	Type (electronic, mech.)		Electronic	
	Number sensors or circuits		4	
	Number anti-lock hydraulic circuits		3	
	Integral or add-on system		Add - on	
	Yaw control (yes, no)		Yes	
	Hydraulic power source (elec., vac. mtr., pwr. strg.)		Electronic	
Effective area [cm ² (in. ²)]* (F/R)			F: 203.93 (31.61) / R: 115.7 (17.93)	
Gross lining area [cm ² (in. ²)]**(F/R)			F: 222.6 (34.5) / R: 115.7 (17.93)	
Swept area [cm ² (in. ²)]*** (F/R)			F: 1329 (206) / R: 1068.4 (165.6)	
Rotor	Outer working diameter	F/R	F: 258.5 (10.18) / R: 267.3 (10.52)	
	Inner working diameter	F/R	F: 158.0 (6.22) / R: 193.5 (7.62)	
	Thickness	F/R	F: 24.0 (0.945) / R: 12.0 (.472)	
	Material Type (vented/solid)	F/R	Front - damped cast iron, vented Rear - Solid	
Drum	Diameter & Width	F/R	N.A.	
	Type & Material	F/R	N.A.	
Wheel cylinder bore			Front: 54 (2.13); Rear: 34.0 (1.34)	
Master cylinder	Bore/stroke	F/R	22.22 (0.875) / 32.79 (1.291)	
Pedal arc ratio			3.28 : 1	
Line pressure at 445 N(100lb.) pedal load [kPa (psi)]			9650 (1400)	
Lining clearance			No major adjustment	
Brake lining	Front Wheel	Bonded or riveted (rivets/seg.)		Riveted, 6/Shoe
		Rivet size		7.54 (0.297) dia. x 8.48 (0.334)
		Manufacturer		Bendix
		Lining code *****		BX - HH - EE
		Material		Semi-metallic, Non-asbestos
		****	Primary or outboard	5918mm ² x 11.3 (9.17 in ² x 0.445)
		Size	Secondary or inboard	5211mm ² x 12.95 (8.08 in ² x 0.510)
		Shoe thickness (no lining)		Outer: 4.83 (0.190) / Inner: 5.2 (0.205)
	Rear Wheel	Bonded or riveted (rivets/seg.)		Bonded
		Manufacturer		Bendix
		Lining code *****		BX - HJ - FF
		Material		Semi-metallic, Non-asbestos
		****	Primary or outboard	2892 mm ² x 11.0 (4.48 in ² x 0.43)
		Size	Secondary or inboard	2892 mm ² x 11.0 (4.48 in ² x 0.43)
		Shoe thickness (no lining)		4.83 (0.190)

* 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

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Body Type And / Or
Engine Displacement

Standard
AAD: S, X - 41

Brakes - Service

Description			Four-wheel hydraulic-actuated system
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		Disc
	Rear (disc or drum)		Disc
Valving type (proportion, delay, metering, other)			Dual proportioning valve
Power brake (std., opt., n.a.)			Standard
Booster type (remote, integral, vac., hyd., etc.)			Vacuum, tandem
Vacuum	Source (inline, pump, etc.)		Intake manifold
	Reservoir (volume in. ³) and source		--
	Pump-type (elec., gear driven, belt driven)		--
Traction control	Operational speed range		
	Type engine intervention (electronic, mech.)		
Anti-lock device	Front/rear (std., opt., n.a.)		
	Manufacturer		
	Type (electronic, mech.)		
	Number sensors or circuits		
	Number anti-lock hydraulic circuits		
	Integral or add-on system		
	Yaw control (yes, no)		
	Hydraulic power source (elec., vac. mtr., pwr. strg.)		
Effective area [cm ² (in. ²)]* (F/R)			F: 203.93 (31.61) / R: 115.7 (17.93)
Gross lining area [cm ² (in. ²)]** (F/R)			F: 222.6 (34.5) / R: 115.7 (17.93)
Swept area [cm ² (in. ²)]*** (F/R)			F: 1329 (206) / R: 1068.4 (165.6)
Rotor	Outer working diameter	F/R	F: 258.5 (10.18) / R: 267.3 (10.52)
	Inner working diameter	F/R	F: 158.0 (6.22) / R: 193.5 (7.62)
	Thickness	F/R	F: 24.0 (0.945) / R: 12.0 (.472)
	Material Type (vented/solid)	F/R	Front - damped cast iron, vented Rear - Solid
Drum	Diameter & Width	F/R	N.A.
	Type & Material	F/R	N.A.
Wheel cylinder bore			Front: 54 (2.13); Rear: 34.0 (1.34)
Master cylinder	Bore/stroke	F/R	22.22 (0.875) / 32.79 (1.291)
Pedal arc ratio			3.28 : 1
Line pressure at 445 N(100lb.) pedal load [kPa (psi)]			9650 (1400)
Lining clearance			No major adjustment
Brake lining	Front Wheel	Bonded or riveted (rivets/seq.)	Riveted, 6/Shoe
		Rivet size	7.54 (0.297) dia. x 8.48 (0.334)
		Manufacturer	Bendix
		Lining code *****	BX - HH - EE
		Material	Semi-metallic, Non-asbestos
		**** Primary or outboard	5918mm ² x 11.3 (9.17 in ² x 0.445)
		Size Secondary or inboard	5211mm ² x 12.95 (8.08 in ² x 0.510)
		Shoe thickness (no lining)	Outer: 4.83 (0.190) / Inner: 5.2 (0.205)
	Rear Wheel	Bonded or riveted (rivets/seq.)	Bonded
		Manufacturer	Bendix
		Lining code *****	BX - HJ - FF
		Material	Semi-metallic, Non-asbestos
		**** Primary or outboard	2892 mm ² x 11.0 (4.48 in ² x 0.43)
		Size Secondary or inboard	2892 mm ² x 11.0 (4.48 in ² x 0.43)
		Shoe thickness (no lining)	4.83 (0.190)

* 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

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Body Type And Or
Engine Displacement

Optional - AAD- S41
Not Available - AAD- H, P, X 41

Brakes - Service

Description			Four-wheel hydraulic-actuated system	
Manufacturer and brake type (std., opt., n.a.)		Front (disc or drum)	Disc	
		Rear (disc or drum)	Disc	
Valving type (proportion, delay, metering, other)			Dual proportioning valve	
Power brake (std., opt., n.a.)			Standard	
Booster type (remote, integral, vac., hyd., etc.)			Vacuum, tandem	
Vacuum	Source (inline, pump, etc.)		Intake manifold	
	Reservoir (volume in. ³) and source		--	
	Pump-type (elec., gear driven, belt driven)		--	
Traction control	Operational speed range			
	Type engine intervention (electronic, mech.)			
Anti-lock device	Front/rear (std., opt., n.a.)		4-Wheel Optional	
	Manufacturer		Bendix	
	Type (electronic, mech.)		Electronic	
	Number sensors or circuits		4	
	Number anti-lock hydraulic circuits		3	
	Integral or add-on system		Add - on	
	Yaw control (yes, no)		Yes	
	Hydraulic power source (elec., vac. mtr., pwr. strg.)		Electronic	
Effective area [cm ² (in. ²)]* (F/R)			F: 231.9 (35.94) / R: 115.7 (17.93)	
Gross lining area [cm ² (in. ²)]** (F/R)			F: 250.54 (38.83) / R: 115.7 (17.93)	
Swept area [cm ² (in. ²)]*** (F/R)			F: 1637.4 (253.8) / R: 1147.2 (177.82)	
Rotor	Outer working diameter	F/R	F: 281.25 (11.07) / R: 284.3 (11.19)	
	Inner working diameter	F/R	F: 161.4 (6.35) / R: 210.5 (8.29)	
	Thickness	F/R	F: 24.0 (0.945) / R: 22.0 (.866)	
	Material Type (vented/solid)	F/R	Front & Rear - Damped cast iron, vented	
Drum	Diameter & Width	F/R	N.A.	
	Type & Material	F/R	N.A.	
Wheel cylinder bore			R: 60.0 (2.36) / R: 36.0 (1.42)	
Master cylinder	Bore/stroke	F/R	24.0 (.950) / 33.41 (1.32)	
Pedal arc ratio			3.28 : 1	
Line pressure at 445 N(100lb.) pedal load [kPa (psi)]			9650 (1400)	
Lining clearance			No major adjustment	
Brake lining	Front Wheel	Bonded or riveted (riveted/seg.)		Rivited 6/Shoe
		Rivet size		7.54 (0.297) dia. x 8.48 (0.334)
		Manufacturer		Bendix
		Lining code *****		BX - HH - EE
		Material		Semi-metallic, Non-asbestos
		****	Primary or outboard	6263 mm ² x 11.3 (9.71 in ² x 0.445)
		Size	Secondary or inboard	6263 mm ² x 11.3 (9.71 in ² x 0.445)
		Shoe thickness (no lining)		Outer: 4.83 (0.190); Inner: 5.2 (0.205)
	Rear Wheel	Bonded or riveted (rivets/seg.)		Bonded
		Manufacturer		Bendix
		Lining code *****		BX - HJ - FF
		Material		Semi-metallic, Non-asbestos
		****	Primary or outboard	2892 mm ² x 11.0 (4.48 in ² x 0.43)
		Size	Secondary or inboard	2892 mm ² x 11.0 (4.48 in ² x 0.43)
		Shoe thickness (no lining)		4.83 (0.190)

* 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

Vehicle Line **DODGE SPIRIT**

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

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

Spirit & Spirit LE

Spirit ES & Spirit R/T

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P195/70 R14, SL	P205/60 R 15, SL
	Type (bias, radial, steel, nylon, etc.)		Steel radial	
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	220 (32)	
		Rear (kPa (psi))	220 (32)	
	Rev./mile - at 70 km/h (45 mph)		843	846
Wheels	Type & material		Steel disc	Cast aluminum
	Rim (size & flange type)		14 x 5.5 JJ	15 x 6.0 JJ
	Wheel offset		40 (1.6)	
	Attachment	Type (bolt or stud)	Stud	
		Circle diameter	100 (3.94)	
		Number & size	5 - M12 x 1.5	
Spare	Tire and wheel		T125/70 D 14 Compact Spare 14 x 4.0 T Steel disc wheel	
	Storage position & location (describe)		Horizontal - On rear floor pan under cargo area	

Tires And Wheels (Optional)

Tire size (load, range, ply)		P205/60 R 15, SL	
Type (bias, radial, steel, nylon, etc.)		Steel radial	
Wheel (type & material)		Cast Aluminum	
Rim (size, flange, type and offset)		14 x 6.0 JJ - 40 mm (1.6 in)	
Tire size (load, range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)		Cast Aluminum	
Rim (size, flange type and offset)		15 x 6.0 JJ - 40 mm (1.6 in)	
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Spare tire and wheel (size) (If configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		Matching spare Horizontal, on rear floor pan under cargo area	

Brakes - Parking

Type of control		Foot operated-apply / Hand release	
Location of control		Left cowl side- apply / Lower left column cover- release	
Operates on		Rear wheels	
If separate from service brakes	Type (internal or external)	Internal, Opt. with ABS	Internal
	Drum diameter	172 (6.77)	
	Lining size (length x width x thickness)	403 x 20 x 5.05 (15.8 x 0.78 x 0.19)	

(a) With AKG (Fleet) Package on base Spirit only

(b) With SDC (Sport Handling) only

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

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

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

**185 & 195 Width Tires
4 Sp. Auto. Trans.**

**205 Width Tires
4 Sp. Auto. Trans.**

Steering

Manual (std., opt., n.a.)				N.A.	
Power Steering (std., opt., n.a.)				Std.	
Adjustable steering wheel column (tilt, telescope, other)	Type		Tilt		
	Manufacturer		Chrysler Motors		
	(Std., opt., n.a.)		Opt.		
Wheel diameter** (W9) SAE J1100		Manual		N.A.	
		Power		381 (15.0)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		--	
		Curb to curb (l. & r.)		11.03(36.2)12.2(40.0)L; 12.7(41.6)R	
	Inside rear	Wall to wall (l. & r.)		--	
		Curb to curb (l. & r.)		--	
Scrub Radius*		- 33.02(- 1.3)			
Manual	Gear	Type			
		Manufacturer			
		Ratios	Gear		
			Overall		
	No. wheel turns (stop to stop)				
Power	Type (coaxial, elec., hyd., etc.)		Integral power		
	Manufacturer		T.R.W.		
	Gear	Type		Rack & pinion	
		Ratios	Gear	45.9 mm / Rev.	
			Overall	16.1:1	
			Pump (drive)		Pulley & belt off crankshaft
	no. wheel turns (stop to stop)		2.62.5		
Linkage	Type		Rack & Pinion (Rod & Ball directly attached to gear)		
	Location (front or rear of wheels, other)		Rear of wheels		
	Tie rods (one or two)		Two (Integral with rack & pinion assembly)		
Steering axis	Inclination at camber (deg.)		12.4° @ .3°		
	Bearings (type)	Upper	Ball bearing		
		Lower	Ball joint		
		Thrust	Ball bearing		
Steering spindle & joint type				Iso strut with lower ball joint	
Wheel spindle/hub	Diameter	Inner bearing		N.A.	
		Outer bearing		N.A.	
	Thread (size)		M22 x 1.5		
	Bearing (type)		Bolt on integral hub & bearing with double row angular contact ball bearing		

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

**See page 21

ØMVMA Specifications

Vehicle Line **DODGE SPIRIT**

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

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

All

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+ 2.0° to + 4.0°
		Camber (deg.)	- 0.2° - + 0.8°
		Toe-in [outside track - mm(in)]	0.4° Toe-in to 0.2° Toe-out (a)
	Service reset*	Caster	Not adjustable; Ref. + 3.0°; Max. side to side differential 1.5°
		Camber	+ .30° ± .30°
		Toe-in	0.1° toe-in ± 0.1° (a)
	Periodic M.V. in-spection	Caster	Same as Service Checking
		Camber	Same as Service Checking
		Toe-in	Same as Service Checking
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	- 1.3° to + 0.3°
		Toe-in [outside track - mm(in)]	0.6° Toe-out to 0.6° Toe-in (a)
	Service reset*	Camber	- 0.5° ± 0.8° (Shim)
		Toe-in	0° ± 0.6° (Shim) (a)
	Periodic M.V. inspection	Camber	Same as Service Checking
		Toe-in	Same as Service Checking

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

ØElectrical - Instruments and Equipment

With Tachometer

Speed-ometer	Type (Analog, digital, std., opt.)	Electric/Analog
	Trip odometer (std., opt., n.a.)	Std.
Head-up display	Standard, optional, not available	
	Type	Secondary, opto-electronic
	Speedometer	Digital
	Status/Warning indicators	Turn signals, high beam, low fuel, check gauges
	Brightness control	Day / night mode, adjustable
EGR maintenance indicator		--
Charge indicator	Type	Voltmeter
	Warning device (light, audible)	Light (Check gages)
Temp. indicator	Type	Magnetic gage
	Warning device (light, audible)	Light (Check gages)
Oil pressure indicator	Type	Magnetic gage
	Warning device (light, audible)	Light (Check Gages)
Fuel indicator	Type	Magnetic gage
	Warning device (light, audible)	Light (ISO symbol)
Wind-shield wiper	Type (standard)	Electric 2 speed, intermittent wipe
	Type (optional)	N.A.
	Blade length	457 (18)
	Swept area (cm ² (in ²))	5964.91 (924.56)
Wind-shield washer	Type (standard)	Electric with arm mounted nozzles
	Type (optional)	N.A.
	Fluid level indicator (light, audible)	Light (ISO symbol) - opt. H; std. P, - Message Center
Rear window wiper, wiper/washer (std., opt., n.a.)		N.A.
Horn	Type	Seashell
	Number used	1 (low note) - std.; 2 - opt.
Other		

(a) Measurements in degrees, not inches

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

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

METRIC (U.S. Customary)

Engine Description
Engine Code

**3.0L (181.4in³), MPI
EFA**

**2.5L (153.0in³), TBI-EFI
EDM**

Electrical - Supply System

Battery	Manufacturer	GNB, Delco, Exide, Johnson controls			
	Model, std., (opt.)	GRP 34			
	Voltage	12V			
	Amps at 0°F cold crank	600			
	Minutes-reserve capacity	120			
	Amp/hrs. - 20 hr. rate	66			
	Location	Left front corner of engine compartment			
Alternator	Manufacturer	Denso	Bosch	Denso	Bosch
	Rating (idle/max. rpm)	90 HS	90 HS	90 HS	90HS
	Ratio (alt. crank/rev.)	2.75:1	2.77:1	2.60 : 1	2.62:1
	Output at idle (rpm, park)	N.A.			
	Optional (type & rating)	--			
Regulator	Type	Engine control computer			

Electrical - Starting System

Motor	Manufacturer	Nippondenso	Bosch	Bosch
	Current drain at 0 °F	150 - 200 A		175 - 225 A
	Power [kW (hp)]	1.4 (1.9)	1.1 (1.475)	1.1 (1.475)
Motor drive	Engagement type	Solenoid shift		
	Pinion engages from (front, rear)	Front		

Electrical - Ignition System

Type		Electronic (std., opt., n.a.)	N.A.		
		Other (specify)	Engine control computer w/ electronic spark advance		
Coil	Manufacturer		MMC	Diamond	Toyodenso
	Model		MD141044	5234652	5234952
	Current	Engine stopped - A	0.0 A	0.0 A	
		Engine idling - A	0.5 A	0.8 A	
Spark plug	Manufacturer		Champion	NGK	Champion
	Model		RN11YC4	BPR5ES - 11	RN 12 YC
	Thread (mm)		14 mm		
	Tightening torque [N•m (lb-ft)]		28 (20)		
	Gap		1 - 1.1 (.039 - .044)	0.9 (0.035)	
	Number per cylinder		One		
Distributor	Manufacturer		MMC	Chrysler	
	Model		MD116211 (Chrysler# 4439211)	5226575	

Electrical Suppression

Locations & type	Resistor spark plugs, Resistance ignition wire, Capacitor-Alternator, Diode-A/C Clutch, Horn relay; Internal fuel pump filter; Starter relay, Power antenna relay; Ground cable - Engine to dash Engine mount, A/C Evaporator Valve to dash; Choke- Amplified speaker option; Suppression filter-ABS motor/pump, blower motor, Radiator fan motor; Power door locks (ring resistor), power mirror (ring varistor), wiper motor (supp. filter)
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MVMA Specifications

Vehicle Line **DODGE SPIRIT**Model Year **1991**Issued **9-15-90**

Revised(*)

METRIC (U.S. Customary)

Engine Description
Engine Code**2.5 L (153.0in³), SMPI Turbo
EDT**

Electrical - Supply System

Battery	Manufacturer	Delco, Exide, GNB, Johnson Controls	
	Model, std., (opt.)	GRP 34	
	Voltage	12V	
	Amps at 0°F cold crank	600	
	Minutes-reserve capacity	120	
	Amp/hrs. - 20 hr. rate	66	
	Location	Left front corner of engine compartment	
Alternator	Manufacturer	Denso	Bosch
	Rating (idle/max. rpm)	90 HS	90HS
	Ratio (alt. crank/rev.)	2.60:1	2.62:1
	Output at idle (rpm, park)	N.A.	
	Optional (type & rating)	none	
Regulator	Type	Engine control computer	

Electrical - Starting System

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

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	N.A.	
	Other (specify)	Engine control computer w/ electronic spark advance	
Coil	Manufacturer	Toyodenso	Diamond
	Model	5234952	5234652
	Current	Engine stopped - A	0.0 A
		Engine idling - A	0.8 A
Spark plug	Manufacturer	Champion	
	Model	RN12YC	
	Thread (mm)	14 mm	
	Tightening torque [N•m (lb-ft)]	28 (20)	
	Gap	0.9mm (0.035in.)	
Distributor	Number per cylinder	One	
	Manufacturer	Chrysler	
	Model	5226525	

Electrical Suppression

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

Vehicle Line **DODGE SPIRIT R/T**

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

METRIC (U.S. Customary)

Engine Description
Engine Code

**2.2 L (135.0in³), DOHC Turbo
EDS**

Electrical - Supply System

Battery	Manufacturer	Delco, Exide, GNB, Johnson Controls	
	Model, std., (opt.)	GRP 34	
	Voltage	12V	
	Amps at 0°F cold crank	600	
	Minutes-reserve capacity	120	
	Amp/hrs. - 20 hr. rate	66	
	Location	Left front corner of engine compartment	
Alternator	Manufacturer	Denso	Bosch
	Rating (idle/max. rpm)	90 HS	90HS
	Ratio (alt. crank/rev.)	2.60:1	2.62:1
	Output at idle (rpm, park)	N.A.	
	Optional (type & rating)	none	
Regulator	Type	Engine control computer	

Electrical - Starting System

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

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	N.A.	
	Other (specify)	Direct Ignition System - Spark Advance thru Engine Control Computer	
Coil	Manufacturer	Diamond	
	Model	5233109	
	Current	Engine stopped - A	
		Engine idling - A	
Spark plug	Manufacturer	Champion	
	Model	RN9YC	
	Thread (mm)	14 mm	
	Tightening torque [N•m (lb-ft)]	28 (20)	
	Gap	0.9mm (0.035in.)	
	Number per cylinder	One	
Distributor	Manufacturer	None	
	Model	None	

Electrical Suppression

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

METRIC (U.S. Customary)

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised(•)

Body Type

All

Body

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

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Enamel - Universal base coat / Clear coat	
Hood	Material & mass	19.3 (42.5)
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Counterbalance, clockspring
	Release control (internal, external)	Internal cable
Trunk lid	Material & mass	13.3 (29.4)
	Type (counterbalance, other)	Torsion bar - Counterbalance
	Internal release control (elec., mech., n.a.)	Mechanical cable
Hatch-back lid	Material & mass	--
	Type (counterbalance, other)	--
	Internal release control (elec., mech., n.a.)	--
Tailgate	Material & mass	--
	Type (drop, lift, door)	--
	Internal release control (elec., mech., n.a.)	--
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	Fixed
Window Regulator type (cable, tape, flex, drive, etc.)	Front	Manual - arm & sector / Electric - arm & sector
	Rear	Manual & Electric arm & sector
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket - Flex-O-Lator Mat - Std. / 50/50 - Flex-O-Lator Mat - Opt.
	Rear	Bench - Full Foam
	3rd seat	--
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket - Formed wire
	Rear	Bench - Full foam - Std. / 60/40 - Full foam - Opt.
	3rd seat	--

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued **9-15-90**

Revised (●)

METRIC (U.S. Customary)

Body Type

All

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Lap & Shoulder belt Std.	Lap belt Opt. (bucket seats std.)	Lap & Shoulder belt Std.
		Second seat	Lap & Shoulder belt Std.	Lap belt Std.	Lap & Shoulder belt Std.
	Standard/Optional	Third seat	N.A.	N.A.	N.A.
Passive	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual - lap belt)	First seat	Knee bolster & Air Bag Std.	N.A.	N.A.
		Second seat	N.A.	N.A.	N.A.
	Standard/Optional	Third seat	N.A.	N.A.	N.A.

Glass	SAE Ref. No.	
Windshield glass exposed surface area [cm ² (in ²)]	S1	9724 (1507)
Side glass exposed surface area [cm ² (in ²)] - total 2 sides	S2	10,208 (1582)
Backlight glass exposed surface area [cm ² (in ²)]	S3	4899 (759)
Total glass exposed surface area [cm ² (in ²)]	S4	24798 (3844)
Windshield glass (type)		Laminated safety glass
Side glass (type)		MS 3694A (Clear) & MS 3694B (Tinted) heat treated safety glass
Backlight glass (type)		Heat treated safety glass

Lamps and Headlamps Locations

Headlamps	Description - sealed beam, halogen, replaceable bulb, etc.	Replaceable bulb	
	Shape	Aero	
	Lo-beam type (2A1, 2B1, 2C1, etc.)	9004	
	Quantity	2	
	Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	9004	
	Quantity	2	(part of low beam)

Frame

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

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

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

METRIC (U.S. Customary)

Body Type

AA/D-H-41

AA/D-P-41

AA/D-S,X-41

Convenience Equipment (standard, optional, n.a.)

Air conditioning (manual, auto. temp control)

Manual - Opt.

Clock (digital, analog)

Digital (In radio) - Std.

Compass/thermometer

N.A.

Console (floor, overhead)

(a)

floor - std.

floor - std.

Defroster, elec. backlight

Opt.

Std.

std.

Diagnostic monitor (integrated, individual)

N.A.

Instrument cluster (list instruments)

N.A.

Keyless entry

N.A.

Electronic Tripminder (avg. spd., fuel)

N.A.

N.A.

Std.

(Avg. fuel econ., Instant. fuel econ., Dist. to empty, elapse time, trip odo.)

Voice alert (list items)

N.A.

Other (Graphic message center)

Opt.

Std.

Std.

(Head, Tail, Brake lamp outage, low washer fluid, door ajar, trunk ajar)

Fuel door lock (remote, key, electric)

N.A.

Auto head on / off delay, dimming

N.A.

Cornering

N.A.

Courtesy (map, reading)

Dome - Std., Map - Opt.

Dome, map - std.

Dome, Map - std.

Door lock, ignition (Ignition time delay)

Opt. (in pkg.)

Std.

Std.

Engine compartment

Opt. (in pkg.)

Std.

Std.

Lamps

Fog

N.A.

Std.

Std.

Glove compartment

Std.

Trunk

Std.

Illuminated entry system (list lamps, activation)

N.A.

Other (Ash receiver)

Std. all

(Cigarette lighter & under Inst. Panel)

Opt. (in pkg.)

Std.

Std.

Day / night (auto. man.)

Manual - Std.

L.H. (remote, power, heated)

Manual, remote - Std. all; Power, remote, heated opt. all

Mirrors

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

Convex, man., remote - Std. all; Convex, pwr., remote, heated - opt. all

Visor vanity (RH/LH, illuminated)

RH/LH - Opt.

RH/LH illum. - Opt.

RH/LH illum. - Opt.

Navigation system (describe)

N.A.

Parking brake-auto release (warning light)

Warning lamp - Std. all

(a) Full floor consol std w/ man, opt w/auto trans. Overhead console opt.

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

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Revised (●)

METRIC (U.S. Customary)

Model Code

AADH41

AADP41

AADX41

Convenience Equipment (standard, optional, n.a.)

Power Equipment	Deck lid (release, pull down)		N.A.	
	Door locks (manual, automatic, describe system)		Manual with ignition interlock - Opt. Ign. Key Anti-Lock Feature w/ Power Locks	
	Seats	2 - 4 - 6 way, etc.	6-way, driver only - Opt.	
		Reclining (R.H., L.H.)	N.A.	
		Memory (R.H., L.H., preset, recline)	N.A.	
		Lumbar, hip, thigh, support	N.A.	
		Heated (R.H., L.H., other)	N.A.	
	Side windows		Opt.	
	Vent windows		N.A.	
Rear windows		Opt.		
Radio systems	Antenna (location, whip, w/shield, power)		Whip - Right front fender - Std.	
	Std.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep pkg., headphone jacks, etc.	AM stereo/FM/MX/ETR	AM stereo/FM/MX/ETR /Cassette
	Opt.		AM stereo/FM/MX/ETR /Cassette	--
			Infinity I - Premium AM stereo/FM/MX/ETR /Cassette	
			--	Infinity II - Premium AM stereo/FM/MX/ETR /Cassette w/Graphic Equalizer
	Speaker (number, location)		Two dual cone ,frt. dr. - Std. 4 dual Cone. frt. & rr. drs. - Opt. Opt. (a)	4 dual cone. frt. & rr. drs. - Std. 4 equalized d/cone frt & rear doors - Incl. w/Infinity I & II
Roof open air fixed (flip-up, sliding, "T")		Flip up manual with removable sunshade - Opt.		
Speed control device		Opt.	Std.	Std.
Speed warning device (light buzzer, etc.)		N.A.		
Tachometer (rpm)		Opt.	Std.	Std.
Telephone system (describe)		N.A.		
Theft deterrent system		Inside hood release, glove box lock, locking steering column - Std.		

(a) 4 equalized coaxial, front & rear doors - w/Infinity I

Trailer Towing

Towing capable (Yes / No)	Yes	Yes	No	Yes
Engine/transmission/axle	2.5 MTX	2.5 ATX	2.2/2.5 Turbo/all (1)	3.0 ATX
Tow Class (I,II,III)*	I	I	--	I
Max. Gross trailer wgt. (lbs.)	1,000	2,000	--	2,000
Max. trailer tongue load (lbs.)	100	200	--	200
Towing Package available (Yes / 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 with Turbocharged engines.

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

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 comparative purposes only. Dimensions are to be shown for all base body models of each car line

SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	41
-----------	--------------	----

ØWidth

Tread (front)	W101	1463 (57.6)
Tread (rear)	W102	1453 (57.2)
Vehicle width	W103	1731 (68.1)
Body width at SqRP (front)	W117	1731 (68.1)
Vehicle width (front doors open)	W120	3432 (135.1)
Vehicle width (rear doors open)	W121	3320 (130.7)
Tumble-home (deg.)	W122	24.8°
Outside mirror width	W410	1838 (72.4)

ØLength

Wheelbase	L101	2629 (103.5)
Vehicle length	L103	4602 (181.2)
Overhang (front)	L104	976 (38.4)
Overhang (rear)	L105	997 (39.3)
Upper structure length	L123	2391 (94.1)
Rear wheel C/L "X" coordinate	L127	2712 (106.8)

ØHeight*

Passenger distribution (front/rear)	PD 1,2,3	2 Front / 3 Rear
Trunk/cargo load		--
Vehicle height	H101	1358 (53.5)
Cowl point to ground	H114	922 (36.3)
Deck point to ground	H138	955 (37.6)
Rocker panel front to ground	H112	211 (8.3)
Rocker panel rear to ground	H111	190 (7.5)
Windshield slope angle	H122	56.0°
Backlight slope angle	H121	35.4°

Ground Clearance

Front bumper to ground	H102	259 (10.2)
Rear bumper to ground	H104	283 (11.2)
Bumper to ground [front at curb mass (wt.)]	H103	276 (10.9)
Bumper to ground [rear at curb mass (wt.)]	H105	359 (14.1)
Angle of approach (degrees)	H106	17°
Angle of departure (degrees)	H107	21°
Ramp breakover angle (degrees)	H147	16°
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		Frnt. Suspension C'mbr. Brkt.

* 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 Specifications

Vehicle Line **DODGE SPIRIT**

Model Year **1991**

Issued

9-15-90

Revised(•)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Body Type

41

Ø Front Compartment

SAE
Ref.
No.

SgRP front, "X" coordinate	L31	1403 (55.2)
Effective head room	H61	976 (38.4)
Max. eff. leg room (accelerator)	L34	1063 (41.9)
SgRP to heel point	H30	271 (10.7)
SgRP to heel point	L53	850 (33.5)
Back angle	L40	24°
Hip angle	L42	97°
Knee angle	L44	124°
Foot angle	L46	87°
Design H-point front travel	L17	205 (8.1)
Normal driving & riding seat track trvl.	L23	184 (7.2)
Shoulder room	W3	1380 (54.3)
Hip room	W5	1312 (51.7)
Upper body opening to ground	H50	1243 (49.0)
Steering wheel maximum diameter*	W9	381 (15.0)
Steering wheel angle	H18	25.8°
Accelerator heel pt. to steer. whl. cntr.	L11	501 (19.7)
Accelerator heel pt. to steer. whl. cntr.	H17	636 (25.0)
Undepressed floor covering thickness	H67	22.4 (0.88)

Ø Rear Compartment

SgRP couple distance	L50	867 (34.1)
Effective head room	H63	962 (37.9)
Min. effective leg room	L51	973 (38.3)
SgRP (second to heel)	H31	284 (11.2)
Knee clearance	L48	74 (2.9)
Shoulder room	W4	1397 (55.0)
Hip room	W6	1320 (52.0)
Upper body opening to ground	H51	1241 (49.0)
Back angle	L41	24°
Hip angle	L43	88°
Knee angle	L45	98°
Foot angle	L47	130°
Depressed floor covering thickness	H73	12.7 (0.5)

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	408 (14.4)
Liftover height	H195	555 (21.9)

Interior Volumes (EPA Classification)

Vehicle Class		Mid-size
Interior volume index (cu. ft.)**		111.2
Trunk / cargo index (cu. ft.)		14.4

* See p. 14

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

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

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

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for Definitions

Body Type

SAE
Ref.
No.

Station Wagon - Third Seat

SgRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
SgRP to heel point	H87	
Knee clearance	L87	
Seat facing direction	SD1	
Back angle	L88	
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	
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 [m ³ (ft. ³)]	V2	
Hidden cargo volume [m ³ (ft. ³)]	V4	
Cargo volume index-rear of 2 nd -seat	V10	

Hatchback - Cargo Space

Cargo length at front seatback height	L208	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index[m ³ (ft. ³)]	V3	
Hidden cargo volume [m ³ (ft. ³)]	V4	
Cargo volume index-rear of 2 nd -seat	V11	

MVMA Specifications

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

METRIC (U.S. Customary)

Body Type

All

Vehicle Fiducial Marks

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 3211 mm (126.4 in) from the centerline of front wheels.
Front	W21	433.5 (17.1)
	L54	925 (36.4)
	H81	-9 (-0.35) Bottom surface of Longitudinal
	H161	
	H163	
Rear	W22	527.6 (20.8)
	L55	3376.2 (132.9)
	H82	235 (9.3) Bottom Surface of Longitudinal
	H162	
	H164	

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

ØMVMA Specifications

Vehicle Line **DODGE SPIRIT**

Model Year	1991	Issued	9-15-90	Revised(•)
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METRIC (U.S. Customary)[illegible]

* 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.

ETWC LEGEND

LEGEND					
A	=	1000	I	=	2000
B	=	1125	J	=	2125
C	=	1250	K	=	2250
D	=	1375	L	=	2375
E	=	1500	M	=	2500
F	=	1625	N	=	2625
G	=	1750	O	=	2750
H	=	1875	P	=	2875
			Q	=	3000
			R	=	3125
			S	=	3250
			T	=	3375
			U	=	3500
			V	=	3625
			W	=	3750
			X	=	3875
			Y	=	4000
			Z	=	4250
			AA	=	4500
			BB	=	4750
			CC	=	5000
			DD	=	5250
			EE	=	5500
			FF	=	5750

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

35 kg. (78 lbs.)

MVMA Specifications

Vehicle Line **DODGE SPIRIT**

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METRIC (U.S. Customary)

Estimated

	Optional Equipment Differential Mass (weight)*			
Equipment	MASS, kg (weight, lb.)			Remarks
	Front	Rear	Total	
2.5 L (153.0 in. ³) Turbo-charged Engine, EDT	8.6 (19)	2.3 (5)	10.6 (24)	Spirit LE with Auto. Trans.
3.0 L (181.0 in. ³) EFA Engine	37.2 (82)	.5 (1)	37.7 (83)	Spirit , includes 4-Speed Auto. Trans.
3.0L (181.0 in. ³) EFA Engine	34.5 (76)	-2.3 (-5)	32.2 (71)	Spirit LE, includes 4-Speed Auto. Trans.
3.0L (181.0 in. ³) EFA Engine	26.3 (58)	-4 (-9)	22.3 (49)	Spirit ES, includes 4-Speed Auto. Trans.
Automatic Transmission-3 Speed	5.5 (12)	0 (0)	5.5 (12)	2.5 L Engine, EDM
Automatic Transmission-3 Speed	6.8 (15)	0 (0)	6.8 (15)	2.5 L Engine, EDT Spirit ES
Sunroof	3 (6)	4 (9)	7 (15)	
Air Conditioning	21.8 (48)	-2.3 (-5)	19.5 (43)	
Special Sound Insulation	3.6 (8)	2.7 (6)	6.3 (14)	Spirit Only
Power Windows	4.1 (9)	3.6 (8)	7.7 (17)	
Power Door Locks	2.7 (6)	1.8 (4)	4.5 (10)	Without Power Windows
Power Seat - Left	2.7 (6)	1.8 (4)	4.5 (10)	
Conventional Spare	-1.8 (-4)	8.2 (18)	6.4 (14)	Spirit & Spirit LE
P205/60R 15 LBL SBR	2 (5)	2 (5)	4 (10)	Spirit LE Only
15" x 6" Cast Aluminum Wheel	-2.7 (-6)	-2.7 (-6)	-5.4 (-12)	Spirit LE Only
14 " 4 Wheel Disc Brakes W/ABS	11.3 (25)	7.3 (16)	18.6 (41)	Spirit and Spirit LE
14 " 4 Wheel Disc Brakes W/ABS	11.3 (25)	0 (0)	11.3 (25)	Spirit ES
15 " 4 Wheel Disc Brakes W/ABS	12.2 (27)	1.4 (3)	13.6 (30)	Spirit RT
Floor Mats F & R	1.8 (4)	1.4 (3)	3.2 (7)	Spirit Only
Console-Floor	1.8 (4)	1.4 (3)	3.2 (7)	Spirit with Auto. Trans.
Center Armrest Console Mounted	1.4 (3)	2.3 (5)	3.7 (8)	Spirit Only
Overhead Console	1.4 (3)	1.4 (3)	2.8 (6)	

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