

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1990

Manufacturer (See Page 1 for Manufacturing Origin) FORD MOTOR COMPANY	Vehicle Line PROBE	
Mailing Address P.O. BOX 2053 DEARBORN, MICHIGAN 48121	Issued NOVEMBER, 1988	Revised JUNE 16, 1989

Direct questions concerning these specifications to the manufacturer listed above.

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Motor Vehicle Manufacturers Association
of the United States, Inc.

Forms Provided by Technical Affairs Division

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE
Model Year 1990 Issued 11/88 Revised (●) 5/15/89

Vehicle Origin

Design & development (company)	Ford Motor Co. & Mazda
Where built (country)	U.S.A.
Authorized U.S. sales marketing representative	Ford Motor Company

Vehicle Models

	Model Description & Drive (FWD/RWD/4WD/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)
(●)	GL Model (FWD) 2-Door Hatchback	10/5/89	AF	2/2	36.0 (80)
(●)	LX Model (FWD) 2-Door Hatchback	10/5/89	AI	2/2	36.0 (80)
(●)	GT Model (FWD) 2-Door Hatchback	10/5/89	AX	2/2	36.0 (80)

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

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METRIC (U.S. Customary)

Power Teams

SAE J1349 Net bhp (brake horsepower) and Net Torque corrected to 77°F/25°C and 29.91 in. Hg/100 kPa atmospheric pressure.

			A	B	C	D	
(●)	E N G I N E	Engine Code	99C	99C	99U	99U	
		Displacement Liters (in³)	2.2 (133.3)	2.2 (133.3)	3.0 (182)	3.0 (182)	
		Induction system (FI, Carb, etc.)	Electronic Port Fuel Injection	Electronic Port Fuel Injection	Electronic Port Fuel Injection	Electronic Port Fuel Injection	
		Compression Ratio	8.6	8.6	9.3	9.3	
		SAE Net at RPM	Power kW (bhp)	82(110) @ 4700	82(110) @ 4700	104(140) @ 4800	104(140) @ 4800
			Torque N · m (lb. ft.)	176(130) @ 3000	176(130) @ 3000	217(160) @ 3000	217(160) @ 3000
		Exhaust single, dual	Single	Single	Single	Single	
(●)	T R A N S	Transmission/ Transaxle	5-Spd. Manual Transaxle (M5)	4-Spd. Automatic Transaxle (4EAT)	5-Spd. Manual Transaxle (M5)	4-Spd. Automatic Transaxle (4EAT)	
		Axle Ratio (std. first)	4.10	3.70	3.85	3.70	

SEE PAGE 2A FOR GT SERIES POWER TEAM SPECIFICATIONS

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Vehicle Line PROBE
Model Year 1990 Issued 11/88 Revised (●) 3/31/89

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.

			E*	F*		
E N G I N E	Engine Code		99L	99L		
	Displacement Liters (in³)		2.2 (133.3)	2.2 (133.3)		
	Induction system (FI, Carb, etc.)		Turbo-Electronic Port Fuel Injection	Turbo-Electronic Port Fuel Injection		
	Compression Ratio		7.8	7.8		
	SAE Net at RPM	Power kW (bhp)	108 (145) @ 4300	108 (145) @ 4300		
		Torque N · m (lb. ft.)	258 (190) @ 3500	258 (190) @ 3500		
	Exhaust single, dual		Single	Single		
T R A N S	Transmission/ Transaxle		5-Spd. Manual Transaxle (M5)	4-Spd. Automatic Transaxle (4EAT)		
	Axle Ratio (std. first)		4.10	3.70		

***SEE PAGE 2 FOR GT SERIES AVAILABILITY**

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MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line **PROBE**

Model Year **1990**

Issued **11/88**

Revised (e) **6/5/89**

Engine Description
Engine Code

2.2L

2.2L TURBO

ENGINE — GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		Inline, Front Transverse, (SOHC) Single Overhead Cam, Multispherical Combustion Chambers, 12 Valves	
Manufacturer		Mazda	
No. of cylinders		Four	
Bore		86 (3.39)	
Stroke		94 (3.7)	
Bore spacing (C/L to C/L)		96-98 (3.78-3.85)	
Cylinder block material & mass kg (lbs.) (machined)		Cast Iron	
Cylinder block deck height		241.5 (9.5)	
Cylinder block length			
Deck clearance (minimum) (above or below block)		0	
Cylinder head material & mass kg (lbs.)		Cast Aluminum Alloy	
Cylinder head volume (cm ³)			
Cylinder liner material		Cast Iron	
Head gasket thickness (compressed)		1.2 (0.047)	
(e) Minimum combustion chamber total volume (cm ³)		49.5	
Cyl. no. system (front to rear)*	L. Bank	1, 2, 3, 4	
	R. Bank	N/A	
Firing order		1, 3, 4, 2	
Intake manifold material & mass [kg (lbs.)]**		Aluminum & 3.7 (8.2)	
Exhaust manifold material & mass [kg (lbs.)]**		Cast Iron & 7.2 (15.9)	Cast Iron & 3.9 (8.6)
Fuel required unleaded, diesel, etc.		Unleaded	Unleaded (Regular & Premium)
Fuel antiknock index (R + M) + 2		87	
Engine mounts	Quantity	4	
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Rubber and Elastomeric	
	Added isolation (sub-frame, crossmember, etc.)	Sub-Frame	
Total dressed engine mass (wt) dry***		208 (458) — MT, 198 (436) — AT	227 (500) — MT

Engine — Pistons

Material & mass, g (weight, oz.)-piston only

Aluminum Alloy

Engine — Camshaft

Location		In Cylinder Head
Material & mass kg (weight, lbs.)		Special Alloy Iron, Induction-Hardened, Phosphate Coated
Drive type	Chain/belt	Belt
	Width/pitch	25.4 (1.0)/9.5 (0.37)

*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: Front End Dress, All Engine Mounted Components Including Exhaust and Cooling Systems

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE

Model Year 1990 Issued 11/88 Revised (●) _____

Engine Description
Engine Code

3.0L

ENGINE — GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	60° V-6 Engine Push Rod, Front, Transverse, Overhead Valve with Six Intake Port Mounted Injectors (Fast Burn Combustion Design with a Centrally Located Spark Plug and Dual Squish Chamber).	
Manufacturer	Ford Motor Company	
No. of cylinders	Six	
Bore	89.0 (3.5)	
Stroke	80.0 (3.1)	
Bore spacing (C/L to C/L)	110.0 (4.3)	
Cylinder block material & mass kg (lbs.) (machined)	Cast Iron 49.2 (108.4)	
Cylinder block deck height	220 (8.7)	
Cylinder block length		
Deck clearance (minimum) (above or below block)	0.11 Above	
Cylinder head material & mass kg (lbs.)	Cast Iron 25.0 (55.1)	
Cylinder head volume (cm ³)	48.6	
Cylinder liner material	None	
Head gasket thickness (compressed)	1.1 (0.04)	
Minimum combustion chamber total volume (cm ³)	60.2	
Cyl. no. system (front to rear)*	L. Bank	4, 5, 6
	R. Bank	1, 2, 3
Firing order	1, 4, 2, 5, 3, 6	
Intake manifold material & mass [kg (lbs.)]**	Cast Aluminum 4.2 (9.3)	
Exhaust manifold material & mass [kg (lbs.)]**	Cast Iron LH 3.1 (6.8) RH 3.4 (7.4)	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) + 2	87 Octane	
Engine mounts	Quantity	
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	
	Added isolation (sub-frame, crossmember, etc.)	Sub-Frame
Total dressed engine mass (wt) dry***		185.8 (409.4)

Engine — Pistons

Material & mass, g (weight, oz.)-piston only

Aluminum Alloy 418 (14.7)

Engine — Camshaft

Location	Cylinder Block	
Material & mass kg (weight, lbs.)	Hardenable Cast Iron 3.3 (7.3)	
Drive type	Chain/belt	Chain
	Width/pitch	12.2 (0.42)

*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: Front End Dress, All Engine Mounted Components and Flex Plate; Excludes Starter and Alternator.

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Vehicle Line PROBEModel Year 1990Issued 11/88

Revised (●)

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Engine Description
Engine Code

2.2L

2.2L TURBO

Engine — Valve System

Hydraulic lifters (std., opt., NA)		Standard
Valves	Number intake/exhaust	8/4
	Head O.D. intake/exhaust	32.5 (1.28)/34 (1.34)

Engine — Connecting Rods

Material & mass [kg., (weight, lbs.)]*	Forged Steel
Length (axes \bar{t} to \bar{t}) mm	158.5 (6.2)

Engine — Crankshaft

Material & mass [kg., (weight, lbs.)]*	Cast Iron
End thrust taken by bearing (no.)	3
Length & number of main bearings	5
Seal (material, one, two piece design, etc.)	Front
	Rear

Engine — Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	294-392 (43-57) @ 3000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	4.6 (4.9)

Engine — Diesel Information (Not Applicable)

Diesel engine manufacturer		
Glow plug, current drain at 0°F		
Injector nozzle	Type	
	Opening pressure [kPa (psi)]	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel injection 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	N/A	Ishikawajima Harima Ind.
Super charger - manufacturer	N/A	
Intercooler	N/A	Mazda

*Finished State

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE

Model Year 1990

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Revised (e)

Engine Description
Engine Code

3.0L

Engine — Valve System

Hydraulic lifters (std., opt., NA)	Standard
Valves	Number intake/exhaust
	Head O.D. intake/exhaust

6/6
42/35 (1.65/1.38)

Engine — Connecting Rods

Material & mass [kg., (weight, lbs.)]*	Forged Steel 0.49 (1.09)
Length (axes ϵ to ϵ) mm	

Engine — Crankshaft

Material & mass [kg., (weight, lbs.)]*	Nodular Cast Iron Alloy 15.88 (35.01)
End thrust taken by bearing (no.)	#3
Length & number of main bearings	Four
Seal (material, one, two piece design, etc.)	Front
	Rear

One Piece — Viton
One Piece — Viton

Engine — Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	379-485 (55-70) @ 2000 RPM
Type oil intake (floating, stationary)	Stationary Shrouded Screen in Sump
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0) Plus 0.5 (0.5) for Filter

Engine — Diesel Information (NOT OFFERED)

Diesel engine manufacturer	
Glow plug, current drain at 0°F	
Injector nozzle	Type
	Opening pressure [kPa (psi)]
Pre-chamber design	
Fuel injection pump	Manufacturer
	Type
Fuel injection 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 (NOT OFFERED)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

*Finished State

MVMA Specifications Form

Vehicle Line PROBE

Model Year 1990 Issued 11/88 Revised (e) 3/31/89

METRIC (U.S. Customary)

Engine Description
Engine Code

2.2L

2.2L TURBO

Engine — Cooling System

Coolant recovery system (std., opt., n.a.)		Standard	
Coolant fill location (rad., bottle)		Radiator	
Radiator cap relief valve pressure [kPa (psi)]		89.6 (13)	
Circulation thermostat	Type (choke, bypass)	Bypass	
	Starts to open at °C(°F)	86.5-89.5° (187.7°-193.1°)	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	6.6	
	Number of pumps	One	
	Drive (V-belt, other)	Timing Belt	
	Bearing type	Ball	
	Impeller material	Cast Iron	
	Housing material	Aluminum	
By-pass recirculation [type (inter., ext.)]		External	
Cooling system capacity	With heater-L(qt.)	7.5 (7.9)	
	With air conditioner-L(qt.)	7.5 (7.9)	
	Opt. equipment [specify-L(qt.)]	N/A	
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	Standard	
	Type (cross-flow, etc.)	Vertical Flow	
	Construction (fin & tube mechanical, braze, etc.)	Tube & Fin	
	Material, mass [kg (wt. lbs.)]	Aluminum	
	Width	646 (25.4)	
	Height	400 (15.7)	
	Thickness	16.3 (0.64) M/T; 25.9 (1.02) A/T	32 (1.26)
(e)	Fins per inch	27.7 M/T; 18.7 A/T	14.9 M/T; 19.5 A/T
Radiator end tank material			
Fan	Std., elec., opt.	Electric	
	Number of blades & type (flex, solid, material)	4	
	Diameter & projected width	320 (12.6) M/T; 340 (13.4) A/T	320 (12.6) M/T; 340 (13.4) A/T
	Ratio (fan to crankshaft rev.)	N/A	
	Fan cutout type		
	Drive type (direct, remote)	Direct	
	RPM at idle (elec.)		
(e)	Motor rating (wattage) (elec.)	80 M/T; 60 A/T	120 M/T; 60 A/T
(e)	Motor switch (type & location) (elec.)	Thermo Switch, Electric	
	Switch point (temp., pressure) (elec.)	97° (206.6°), Electric M/T; 97° (206.6°) & 108° (226.4°), Electric A/T	
	Fan shroud (material)	Plastic	

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Model Year 1990

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METRIC (U.S. Customary)

Engine Description
Engine Code

3.0L

Engine — Cooling System

Coolant recovery system (std., opt., n.a.)		Standard
Coolant fill location (rad., bottle)		Radiator
(e) Radiator cap relief valve pressure [kPa (psi)]		110 (16)
Circulation thermostat	Type (choke, bypass)	Reverse Bypass
	Starts to open at °C(°F)	91 (197°)
Water Pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	10
	Number of pumps	One
	Drive (V-belt, other)	Poly-V-Belt
	Bearing type	Ball Roller
	Impeller material	Low Carbon Steel
	Housing material	Aluminum
By-pass recirculation [type (inter., ext.)]		External
(e) Cooling system capacity	With heater-L(qt.)	9.4 (9.9)
	With air conditioner-L(qt.)	
	Opt. equipment [specify-L(qt.)]	
Water jackets full length of cyl. (yes, no)		Yes
Water all around cylinder (yes, no)		Yes
Water jackets open at head face (yes, no)		Yes
(e) Radiator core	Std., A/C, HD	Standard
	Type (cross-flow, etc.)	Vertical Flow
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube
	Material, mass [kg (wgt, lbs.)]	Aluminum
	Width	691 (27.2)
	Height	400 (15.7)
	Thickness	25.9 (1.02)
(e)	Fins per inch	1.43
(e) Radiator end tank material		Nylon with Glass Fiber
(e) Fan	Std., elec., opt.	Electric
	Number of blades & type (flex, solid, material)	Eight
	Diameter & projected width	39.3 (15.5) Dia.
	Ratio (fan to crankshaft rev.)	N/A
	Fan cutout type	Coolant Sensor & Electric Switch
	Drive type (direct, remote)	Direct
	RPM at idle (elec.)	Low — 1450, High — 1850 M/T; Low — 1520, High — 1960 A/T
	Motor rating (wattage) (elec.)	Low — 160, High — 355 M/T; Low — 185, High — 440 A/T
	Motor switch (type & location) (elec.)	Electrical — EEC Control
	Switch point (temp., pressure) (elec.)	Electrical — EEC Control 101.7° (215°)
(e)	Fan shroud (material)	Plastic Resin

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METRIC (U.S. Customary)

Engine Description
Engine Code

2.2L

2.2L TURBO

3.0L

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

Induction type: carburetor, fuel injection system, etc.		Electronic Fuel Injection	
Manufacturer		Mazda	Ford Motor Co.
Carburetor no. of barrels		N/A	
Idle A/F mix.		14.7:1	
Fuel injection	Point of injection (no.)	Intake Port (4)	Intake Port (6)
	Constant, pulse, flow	Pulse	
	Control (electronic, mech.)	Electronic	
	System pressure [kPa (psi)]	250 (36.3)	270 (39)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	750-800	725-775
			N/A
	Automatic	750-800 (Neutral)	N/A
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water Thermostatic	
Air cleaner type		Wet Type	Dry
Fuel filter (type/location)		Paper Element	
Fuel pump	Type (elec. or mech.)	Electric	
	Location (eng., tank)	Fuel Tank	
	Pressure range [kPa (psi)]	250-270 (36-39)	
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	80 (21) @ 250 (36.3)	

Fuel Tank

Capacity (refill L (gallons))		57 (15.1)
Location (describe)		Under Rear Floor Ahead of Rear Suspension
Attachment		3 Bolts and 1 Strap
Material & Mass [kg (weight lbs.)]		Steel & 12 (26.5)
Filler pipe	Location & material	Left Rear Quarter Panel
	Connection to tank	Rubber Hose
Fuel line (material)		Steel & Rubber
Fuel hose (material)		Rubber
Return line (material)		Steel & Rubber
Vapor line (material)		Steel & Rubber
Extended range tank	Opt., n.a.	N/A
	Capacity [L (gallons)]	—
	Location & material	—
	Attachment	—
Auxiliary tank	Opt., n.a.	N/A
	Capacity [L (gallons)]	—
	Location & material	—
	Attachment	—
	Selector switch or valve	—
	Separate fill	—

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Vehicle Line PROBE
Model Year 1990 Issued 11/88 Revised (e) _____

Engine Description
Engine Code

2.2L

2.2L TURBO

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Vehicle and Engine Modifications, Feedback Controlled Fuel Injection, Exhaust Gas Recirculation (EGR) and Catalyst	
	Air Injection	Pump or pulse	N/A	
		Driven by		
		Air distribution (head, manifold, etc.)		
		Point of entry		
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled Flow	
		Exhaust source	Exhaust Manifold #1 & #4	Exhaust Manifold #4
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold	
	Catalytic Converter	Type	Three Way Catalyst (TWC)	
		Number of	Two — TWC	
		Location(s)	Under Floor Area	
		Volume [L (in³)]	2.1 (128)	2.3 (140.4)
		Substrate type	Monolith	
		Noble metal type	Platinum/Rhodium	
		Noble metal Concentration (g/cm³)	1.6 g/L	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Closed Type	
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	
	Discharges (to intake manifold, other)		Surge Tank	
	Air inlet (breather cap, other)		Air Hose	
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)		No	
	Open loop (yes/no)		Yes	

Engine — Exhaust System

Type (single, single with cross-over, dual, other)		Single	Single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]		One	
Resonator no. & type		One, Resonance & Expansion	
Exhaust pipe	Branch o.d., wall thickness	37 x 4.0 (1.5 x 0.16)	38 x 4.5 (1.4 x 0.18)
	Main o.d., wall thickness	48.6 x 2.0 (1.9 x 0.08)	50.8 x 2.0 (2.0 x 0.08)
	Material & Mass [kg (weight lbs.)]	Stainless	
Inter-mediate pipe	o.d. & wall thickness	48.6 x 1.6 (1.9 x 0.06)	50.8 x 1.6 (2.0 x 0.06)
	Material & Mass [kg (weight lbs.)]	Alum. Coated Steel	
Tail pipe	o.d. & wall thickness	45 x 1.2 (1.8 x 0.05)	38.1 x 1.2 (1.5 x 0.05)
	Material & Mass [kg (weight lbs.)]	Stainless	

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Engine Description
Engine Code

3.0L

Vehicle Emission Control

(e)	Exhaust Emission Control	Type (air injection, engine modifications, other)		Electronic Fuel & Spark Control Plus Exhaust Gas Recirculation	
		Air Injection	Pump or pulse	N/A	
			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)		Controlled Flow	
		Exhaust source		Exhaust Manifold	
		Point of exhaust injection (spacer, carburetor, manifold, other)		Intake Manifold	
	Catalytic Converter	Type		TWC	
		Number of		One	
		Location(s)		Under Floor Area	
		Volume [L (in ³)]			
		Substrate type		Monolith	
(e)		Noble metal type		Platinum/Rhodium	
(e)		Noble metal Concentration (g/cm ³)			
	Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System	
		Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	
		Discharges (to intake manifold, other)		Intake Manifold	
		Air inlet (breather cap, other)		Compressor Inlet Adaptor	
	Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Carbon Canister	
			Carburetor	N/A	
		Vapor storage provision		Carbon Canister	
	Electronic system	Closed loop (yes/no)		Yes	
		Open loop (yes/no)		Yes	

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
(e) Resonator no. & type		N/A
(e) Exhaust pipe	Branch o.d., wall thickness	45.2 & 43.7 x 1.75 (1.78 & 1.72 x .069)
(e) Exhaust pipe	Main o.d., wall thickness	51.6 & 50.0 x 1.75 (2.03 & 1.97 x .069)
(e) Exhaust pipe	Material & Mass [kg (weight lbs.)]	Stainless Steel
(e) Intermediate pipe	o.d. & wall thickness	54.0 x 2.0 & 1.6 (2.13 x 0.16 & 0.06)
(e) Intermediate pipe	Material & Mass [kg (weight lbs.)]	Stainless Steel & Aluminized-Coated Steel
(e) Tail pipe	o.d. & wall thickness	42.7 x 1.2 (1.68 x 0.05)
(e) Tail pipe	Material & Mass [kg (weight lbs.)]	Stainless Steel

MVMA Specifications

Vehicle Line PROBE

Model Year 1990

Issued 11/88

Revised (e)

METRIC (U.S. Customary)

Engine Description
Engine Code

GL MODEL

LX MODEL

GT MODEL

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)	Standard (Mazda/Japan)
Automatic (manufacturer/country)	N/A
Automatic overdrive (manufacturer/country)	Optional (Mazda/Japan)

Manual Transmission/Transaxle

Number of forward speeds		Five (M5)		
Gear ratios	1st	3.307	3.25	
	2nd	1.833	1.904	1.772
	3rd	1.233	1.323	1.194
	4th	0.914	0.975	0.926
	5th	0.717	0.711	
	Reverse	3.166	3.461	
Synchronous meshing (specify gears)		All Forward Gears		
Shift lever location		Floor		
Trans. case mat'l. & mass kg (lbs)*		Aluminum & Steel & 10.3 (22.7)		Aluminum & Steel & 15.2 (33.5)
Lubricant	Capacity [L (pt.)]	3.35 (7.1)		3.65 (7.7)
	Type recommended	ATF Dexron II		

Clutch (Manual Transmission)

Clutch manufacturer		Daikin Mfg. Co., Ltd.	
Clutch type (dry, wet; single, multiple disc)		Single Disc, Dry Plate	
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic	
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	103 (23)	113.7 (25.6)
	Released		
Assist (spring, power/percent, nominal)		N/A	
Type pressure plate springs		Diaphragm Spring	
Total spring load (nominal, new) N (lbs)		4608 (1036)	5493 (1235)
Clutch facing	Facing mfr. & material coding	Valeo	
	Facing material & construction	Semi-Mold	
	Rivets per facing	18	32
	Outside x inside dia. (nominal)	225 (8.86) x 150 (5.91)	240 (9.45) x 160 (6.3)
	Total eff. area [cm ² (in. ²)]	220 (34.1)	251 (38.9)
	Thickness (pressure plate side/ fly wheel side)	3.5 (0.14)	
	Rivet depth (pressure plate side/ fly wheel side)	2.0 (0.079) / 1.4 (0.055)	1.4 (0.055) / 1.4 (0.055)
	Engagement cushion method	Cushion Springs	
Release bearing type & method lub.		Ball & Pre-Packed	
Torsional damping method, springs, hysteresis		Coil Springs & Friction Springs	

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

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line PROBE

Model Year 1990

Issued 11/88

Revised (e) 3/31/89

(e) Engine Description
Engine Code

2.2L

2.2L TURBO

3.0L

Automatic Transmission/Transaxle

Trade name		Transaxle (4EAT): G4A-EL (EC-AT)	
Type and special features (describe)		4-Speed with Lock-up Torque Converter	
(e) Gear Selector	Location (column, floor, other)	Floor	
	Ltr./No. designation (e.g. PRND21)	P R N <u>(D)</u> 2 1	
	Shift interlock (yes, no, describe)	No	
Gear ratios	1st	2.80	
	2nd	1.54	
	3rd	1.00	
	4th	0.70	
	Reverse	2.33	
(e) Max. upshift speed - drive range [km/h (mph)]		(a)	
(e) Max. kickdown speed - drive range [km/h (mph)]		(b)	
(e) Min. overdrive speed [km/h (mph)]		50(31)	45 (28)
(e) Torque converter	Number of elements	3-Element, 1-Stage, 2-Phase	
	Max. ratio at stall	1.8:1	1.7:1
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	250 (9.84)	
(e)	Capacity factor "K"	212 at Speed Ratio: 0 204 at Speed Ratio: 0	
Lubricant	Capacity [refill L (pt.)]	6.8 (14.4)	
	Type Recommended	ATF M-III	
Oil cooler (std., opt., NA, internal, external, air, liquid)		Standard, External Air	
Transmission mass kg (lbs) & case material**		Aluminum	

All Wheel/4 Wheel Drive (NOT APPLICABLE)

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)	

- (e) (a) 2.2L: 55.5 (34.7) 1 to 2, 106 (66.3) 2 to 3, 160 (100) 3 to 4
 2.2L Turbo: 54.0 (33.8) 1 to 2, 102 (63.8) 2 to 3, 160 (100) 3 to 4
 3.0L: 54.0 (33.8) 1 to 2, 104 (65.0) 2 to 3, 160 (100) 3 to 4
 (e) (b) 2.2L: 55.5 (34.7) 2 to 1, 107 (66.9) 3 to 2, 168 (105) 4 to 3
 2.2L Turbo: 54.0 (33.8) 2 to 1, 102 (63.8) 3 to 2, 168 (105) 4 to 3
 3.0L: 54.0 (33.8) 2 to 1, 104 (65) 3 to 2, 168 (105) 4 to 3

*Input speed ÷ $\sqrt{\text{torque}}$

**Dry weight including torque converter. If other, specify.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE

Model Year 1990 Issued 11/88 Revised (e) 3/31/89

Engine Description
Engine Code

ALL MODELS

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

(e) Effective final drive ratio (or overall top gear ratio)	2.59 (4EAT)	(M5)	2.94 (M5)	2.92 (M5)
(e) Transfer ratio and method (chain, gear, etc.)	3.70 Gear	3.85 Gear	4.10 Gear	4.10 Gear
Front drive unit	Ring gear o.d.			
	No. of teeth	Pinion		
		Ring gear		

⊗ Front Drive Unit

Description (integral to trans., etc.)		Integral to Transmission
Limited slip differential (type)		N/A
Drive pinion	Type	Helical Gear
	Offset	None
No. of different pinions		Two
Pinion/differential	Adjustment (shim, etc.)	None
	Bearing adjustment	Shim
Driving wheel bearing (type)		Taper Unit Bearing
Lubricant	Capacity [L (pt.)]	
	Type recommended	

⊗ Axle Shafts — Front Wheel Drive (GL MODELS) (LX AND GT MODELS)

Manufacturer and number used			Mazda, Two, One Each RH & LH Equal Length	
Type (straight, solid bar, tubular, etc.)		Left	Solid Bar	
		Right	Solid Bar	
(●) Outer diam. x length* x wall thickness	Manual transaxle	Left	24 x 380 (0.94 x 14.2)	26 x 355 (1.02 x 14)
		Right	24 x 380 (0.94 x 14.2)	26 x 355 (1.02 x 14)
	Automatic transaxle	Left	24 x 355.5 (0.94 x 14)	N/A
		Right	24 x 355.5 (0.94 x 14)	N/A
	Optional transaxle	Left	N/A	
		Right	N/A	
Slip yoke	Type			
	Number of teeth			
	Spline o.d.			
Universal joints	Make and mfg. no.	Inner	NTN, G03325 (M/T) (a)	NTN, G05325 (M/T)
		Outer		
	Number used			
	Type, size, plunge	Inner	Double Offset Joint (M/T); Tripod Joint (A/T)	
		Outer	Bell Joint	
	Attach (u-bolt, clamp, etc.)			
	Bearing	Type (plain, anti-friction)		
		Lubrication (fitting, 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 rear attachment.

(a) G04325 (A/T)

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line **PROBE**

Model Year **1990**

Issued **11/88**

Revised (e) **6/5/89**

Body Type And/Or
Engine Displacement

GL AND LX MODELS

GT MODEL

Suspension — General Including Electronic Controls

Car leveling	Standard/optional/not avail.	N/A	
	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/option/not avail.	N/A	Standard
	Manual/automatic control	—	Automatic Control
	Number of damping rates	—	Three; Soft, Normal-Auto, Sport-Auto
	Type of actuation (manual/electric motor/air, etc.)	—	Electric Actuator
	s e n s o r s	Lateral acceleration	Steering Wheel Angle
		Deceleration	Braking
		Acceleration	Speed Increase
		Road surface	—
Shock absorber (front & rear)	Type	Combined Strut/Hydraulic	Comb. Strut/Nitro. Gas Press./Hyd.
	Make	Kayaba-Front, Showa Seisakusho — Rear	
	Piston diameter	32 (1.26) Front and Rear	
	Rod diameter	22 (0.87) Front and Rear	

Suspension — Front

Type and description		Independent Strut Type with Lower Asymmetric Control Arms and Upper Strut Mounted Coil Springs with Separate Sub Frame	
Travel*	Full jounce	85 (3.35)	
	Full rebound	90 (3.54)	
Spring	Type (coil, leaf, other) & material	Coil, Chromium Alloy Steel	
	Insulators (type & material)	Seat & Rubber	
	Size (coil design height & i.d.)	Coil 162.3 (6.4) — Height & 13.1 ~ 14.0 (0.51 ~ 0.55) — Bar Dia.	Coil 162.3 (6.4) — Height & 14.2 (0.56) — Bar Dia.
	Spring rate [N/mm (lb./in.)]	Variable 17.5 (100) to 24.8 (142)	29.4 (168)
	Rate at wheel [N/mm (lb./in.)]	Variable 16.0 (91.4) to 22.7 (130)	26.9 (154)
(e) Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	Steel Tube & 20 (0.78)	Steel Tube & 24.2 (0.95)

Suspension — Rear

Type and description		Independent Strut Type Four Bar with Single Trailing Arms and Upper Strut Mounted Coil Springs	
Travel*	Full jounce	80 (3.15)	
	Full rebound	120 (4.72)	95 (3.74)
Spring	Type (coil, leaf, other) & material	Coil, Chromium Alloy Steel	
	Size (length x width, coil design height & i.d.)	Coil	
	Spring rate [N/mm (lb./in.)]	17.4 (99.43)	24.5 (140)
	Rate at wheel [N/mm (lb./in.)]	16.6 (94.86)	23.4 (134)
	Insulators (type & material)	Seat & Rubber	
	If leaf	No. of leaves	N/A
		Shackle (comp. or tens.)	N/A
(e) Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	Steel Tube & 16 (0.63)	Steel Tube & 18 (0.71)
Track bar (type)		N/A	

*Define load condition:

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line **PROBE**

Model Year **1990**

Issued **11/88**

Revised (e) **6/5/89**

Body Type And/Or
Engine Displacement

GL MODEL

LX & GT MODELS

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	Disc
Valving type (proportion, delay, metering, other)			Proportion	
Power brake (std., opt., n.a.)			Standard	
Booster type (remote, integral, vac., hyd., etc.)			Vacuum	
Vacuum	Source (inline, pump, etc.)		Inline	
	Reservoir (volume in.)		N/A	
	Pump-type (elec., gear driven, belt driven)		N/A	
Traction control	Operational speed range		N/A	
	Type engine intervention (electronic, mech.)		—	
(e) Anti-lock device	Front/rear (std., opt., n.a.)		N/A	Optional
	Manufacturer		—	Sumitomo Electric Industries, Ltd.
	Type (electronic, mech.)		—	Electronic
	Number sensors or circuits		—	4 Sensors
	Number anti-lock hydraulic circuits		—	3
	Integral or add-on system		—	Add-On
	Yaw control (yes, no)		—	No
	Hydraulic power source (elect., vac. mtr., pwr. strg.)		—	Electric
Effective area [cm ² (in. ²)]* F/R			192 (29.8)/263 (48.8)	192 (29.8)/116 (18)
Gross lining area [cm ² (in. ²)]** (F/R)			192 (29.8)/263 (48.8)	192 (29.8)/116 (18)
Swept area [cm ² (in. ²)]*** (F/R)			1196 (185.4)/860 (133.4)	1196 (185.4)/1036 (160.6)
Rotor	Outerworking diameter	F/R	264 (10.4)/N/A	264(10.4)/259(10.2)
	Inner working diameter	F/R	173 (6.8)/N/A	173(6.8)/180(7.1)
	Thickness	F/R	24 (0.94)/N/A	24 (0.94)/10 (0.39)
	Material & type (vented/solid)	F/R	Cast Iron	
Drum	Diameter & width	F/R	N/A/228.6 (9.0) & 47 (1.9)	N/A / N/A
	Type and material	F/R	Cast Iron	
Wheel cylinder bore F/R			53.97 (2.12)/17.46 (0.69)	53.97 (2.12)/30.2 (1.19)
Master cylinder	Bore/stroke	F/R	22.22 (0.87)/15 (0.59)	
Pedal arc ratio			4.2:1	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			11290 (1637)	
Lining clearance F/R			0.1 ~ 0.3 (0.004 ~ 0.012)/0.1 ~ 0.3 (0.004 ~ 0.012)	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Bonded	
		Rivet size		
		Manufacturer	Sumitomo Electric Industries, Ltd.	
		Lining code*****	M2238 FF	
		Material	Molded Resin	
		**** Primary or out-board	116 x 43 x 10 (4.6 x 1.7 x 0.39)	
		Size Secondary or in-board	116 x 43 x 10 (4.6 x 1.7 x 0.39)	
		Shoe thickness (no lining)	6 (0.24)	
	Rear wheel	Bonded or riveted (rivets/seg.)	Bonded	
		Manufacturer	Nishinbo	Japan Brake
		Lining Code*****	NBK D3216 FF	
		Material	Molded Resin	
		**** Primary or out-board	217 x 30 x 4.5 (8.5 x 1.2 x 0.18)	85 x 36 x 8 (3.3 x 1.4 x 0.31)
		Size Secondary or in-board	217 x 30 x 4.5 (8.5 x 1.2 x 0.18)	85 x 36 x 8 (3.3 x 1.4 x 0.31)
		Shoe thickness (no lining)	1.6 (0.06)	5 (0.197)

*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 and coefficient of friction classification.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line **PROBE**

Model Year **1990**

Issued **11/88**

Revised (e) **3/31/89**

Body Type And/Or
Engine Displacement

GL MODEL

LX MODEL

Tires And Wheels (Standard)

(SEE PAGE 13A FOR GT MODEL)

(e) Tires	Size (load range, ply)		P185/70SR14	P195/70SR14
	Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial	
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	221 (32)	
		Rear [kPa (psi)]	179 (26)	
	Rev./mile — at 70 km/h (45 mph)			
Wheels	Type & material		Styled Disc, Steel	
	Rim (size & flange type)		14" x 5.5"	
	Wheel offset		42 (1.65)	
	Attachment	Type (bolt or stud)	Stud	
		Circle diameter	114.3 (4.5)	
		Number & size	Five & M12 — 1.5	
(e) Spare	Tire and wheel		T125/70D15, 415 KPA (60 PSI), Wheel 15"	
	Storage position & location (describe)		Flat Position, Deep Well In Rear Load Floor	

Tires And Wheels (Optional)

Tire size (load range, ply)		P195/70HR14	P205/60HR15
Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial	
(e) Wheel (type & material)		Aluminum Alloy, 20-Spoke (a)	Aluminum Alloy, 3-Spoke (b)
Rim (size, flange type and offset)		14" x 6", Offset	15" x 6", Offset
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)			
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)			

Brakes — Parking

Type of control		Manual
Location of control		Between Front Seats — Floor
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	N/A
	Drum diameter	N/A
	Lining size (length x width x thickness)	N/A

(a) Requires P195/70HR14 Tires

(b) Requires P205/60HR15 Tires

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE

Model Year 1990

Issued 11/88

Revised (●)

Body Type And/Or
Engine Displacement

GT MODEL

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P205/60VR15
	Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	221 (32)
		Rear [kPa (psi)]	179 (26)
	Rev./mile — at 70 km/h (45 mph)		
Wheels	Type & material		Disc, Aluminum Alloy
	Rim (size & flange type)		15" x 6"
	Wheel offset		42 (1.65)
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	114.3 (4.5)
		Number & size	Five & M12 — 1.5
Spare	Tire and wheel		T125/70D15, 415 kPa (60 PSI), Wheel 15"
	Storage position & location (describe)		Flat Position, Deep Well in Rear Load Floor

Tires And Wheels (Optional)

(NOT AVAILABLE)

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)	
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)	

Brakes — Parking

(SEE PAGE 13)

Type of control		
Location of control		
Operates on		
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

MVMA Specifications

Vehicle Line **PROBE**

Model Year **1990**

Issued **11/88**

Revised (e) **6/16/89**

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

GL AND LX MODELS

GT MODEL

Steering

Manual (std., opt., n.a.)			N/A		
Power (std., opt., n.a.)			Standard		
Adjustable steering wheel/column (tilt, telescope, other)	Type	Tilt Column			
	Manufacturer	Mazda			
	(Std., opt., n.a.)	Optional (Standard w/LX and GT)			
Wheel diameter** (W9) SAE J1100	Manual	N/A			
	Power	380 (15)			
(e) Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)	11.4 (37.4) (a)	11.8 (38.7)	
	Inside rear	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
Scrub Radius*					
Manual	Gear	Type	N/A		
		Manufacturer			
		Ratios	Gear		
			Overall		
	No. wheel turns (stop to stop)				
Power	Type (coaxial, elec., hyd., etc.)	Hydraulic Integral Rack & Pinion			
	Manufacturer	Tokai TRW Co.		Nihon Power Steering Co.	
	Gear	Type	Rack & Pinion, Constant Ratio		Rack & Pinion, Variable Assist (b)
		Ratios	Gear		
			Overall	17.1:1	
	Pump (drive)	Belt			
	No. wheel turns (stop to stop)	2.9			
Linkage	Type	Integral with Gear			
	Location (front or rear of wheels, other)	Rear			
	Tie rods (one or two)	Two Integral with Gear			
Steering axis	Inclination at camber (deg.)				
	Bearings (type)	Upper			
		Lower			
		Thrust			
Steering spindle/knuckle & joint type					
Wheel spindle/hub	Diameter	Inner bearing	42 (1.7)		
		Outer bearing	38 (1.5)		
	Thread (size)				
	Bearing (type)	Taper Roller Unit			

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

**See Page 22.

- (e) (a) 11.8 (38.7) For LX Model with Optional 15" Wheels.
(b) Speed Sensitive

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line **PROBE**

Model Year **1990**

Issued **11/88**

Revised (●)

Body Type And/Or
Engine Displacement

ALL MODELS

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	1° 26' ± 45'
		Camber (deg.)	0° 16' ± 45'
		Toe-in [outside track-mm (in.)]	3 (0.12) ± 3 (0.12)
	Service reset*	Caster	
		Camber	
		Toe-in	
	Periodic M.V. in- spection	Caster	
		Camber	
		Toe-in	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-0° 26' ± 45'
		Toe-in [outside track-mm (in.)]	3 (0.12) ± 3 (0.12)
	Service reset*	Camber	
		Toe-in	
	Periodic M.V. in- spection	Camber	
		Toe-in	

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

Electrical — Instruments and Equipment

Speed- ometer	Type (analog, digital, std., opt.)	Standard, Analog
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		N/A
Charge indicator	Type	Standard, Analog Gauge Voltmeter
	Warning device (light, audible)	N/A
Temperature indicator	Type	Standard, Analog Gauge
	Warning device (light, audible)	Optional, Light
Oil pressure indicator	Type	Standard, Analog Gauge
	Warning device (light, audible)	Optional, Light
Fuel indicator	Type	Standard, Analog Gauge
	Warning device (light, audible)	Optional, Light
Wind- shield wiper	Type (standard)	Electric Two-Spd. w/Fixed Interval Position w/GL (Variable w/LX & GT)
	Type (optional)	Variable Interval Positions w/GL Model (Std. w/LX & GT)
	Blade length	500 (19.6) — Driver Side; 450 (17.7) — Pass. Side
	Swept area [cm²(in.²)]	6274 (972)
Wind- shield washer	Type (standard)	Standard, Electric Pump
	Type (optional)	N/A
	Fluid level indicator (light, audible)	Optional, Light
Rear window wiper, wiper/washer (std., opt., n.a.)		Opt., Wiper/Washer w/LX & GT Models Only (Incl. w/Funct. Upgrade Pkg.)
Horn	Type	Electric
	Number used	Standard, Two-One Hi-Pitch, One Lo-Pitch
Other See Page 15A		

MVMA Specifications

Vehicle Line PROBE
Model Year 1990 Issued 11/88 Revised (●) _____

METRIC (U.S. Customary) SUPPLEMENTAL PAGE

Electrical — Instruments and Equipment: (Cont'd)

- Brake System Warning Light
- Direction Turn Signal Lights
- Emergency Flashers
- High-Beam Indicator
- Fasten Seat Belt Warning Light/Warning Tone
- Check Engine Warning Light, Malfunction (EEC)
- Key in Ignition Warning Tone
- Headlamp on Warning Tone
- Turbo Overboost Buzzer (GT Model)
- Up-Shift Indicator Light (Manual Trans. Only)
- Low Oil Warning System (Standard w/LX & GT Models)
- Vehicle Maintenance Monitor (VMM) — Optional Warning Functions:

	<u>Message</u>	<u>Indicator / Sound</u>
— Door or Decklid Ajar	Door Ajar	Light / Tone
— Low Oil Level	Check Oil	Light
— Low Coolant	Low Coolant	Light
— Low Fuel	Low Fuel	Light
— Stoplamp Out	Stoplamp	Light
— Taillamp Out	Taillamp	Light
— Low Windshield Washer	Washer Fluid	Light
— Headlamp Out	Headlamp	Light
— Service Interval	Service	Light

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE

Model Year 1990

Issued 11/88

Revised (e) 5/15/89

Engine Description
Engine Code

GL MODEL

GT MODEL

LX MODEL

Electrical — Supply System

(e) Battery	Manufacturer	Johnson Control Inc.	
	Model, std., (opt.)	50D20L, Standard	Standard
	Voltage	12	
	Amps at 0°F cold crank	505	540
	Minutes-reserve capacity	86	100
	Amp/hrs. - 20 hr. rate	56	58
Alternator	Location	Engine Compartment	
	Manufacturer	Mitsubishi	
	Rating (idle/max. rpm)	170 AMP	
	Ratio (alt. crank/rev.)	2.33:1	
	Output at idle (rpm, park)		
Regulator	Optional (type & rating)		
	Type	Electronic Integral with Alternator	

Electrical — Starting System

Motor	Manufacturer	Mitsubishi	Ford
	Current drain 0 °F		285-310 Amps
	Power rating [kw (hp)]	1.4 (1.88)	N/A
Motor drive	Engagement type	Pre-engagement	Positive E7DF-AA
	Pinion engages from (front, rear)	Front	

Electrical — Ignition System

Type	Electronic (std., opt., n.a.)	Standard		
	Other (specify)	N/A		
Coil	Manufacturer	Hanshin/Diamond	Diamond	Motorcraft
	Model	FTC-4/E-019	F-092	E-Core
	Current	Engine stopped — A		0.1
		Engine idling — A		2.5
Spark plug	Manufacturer	Nippon Denso/NGK		Motorcraft
	Model	AGSP33C		AWSF-32C
	Thread (mm)			14
	Tightening torque [N-m (lb, ft)]	1.8 (1.3) ± 0.3 (0.2)		7-14 (5.2-10.3)
	Gap	1.1 (0.043)		1.12 (0.044)
	Number per cylinder	One		
Distributor	Manufacturer	Mitsubishi		Motorcraft
	Model			

Electrical — Suppression

Locations & type	Resistance Spark Plugs and Ignition Wires
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MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE

Model Year 1990

Issued 11/88

Revised (e)

Body Type

ALL MODELS

Body

Structure

Unitized Construction with Separate Front Sub-Frame

Bumper system
front-rear

Front — With PGM Unit
Rear — With Honeycomb Biscuit
Front/Rear — 5 MPH Ford Requirements

Anti-corrosion treatment

- Major Exterior and Structural Metal Components Pre-Coated Steel
- Body Cathodically Electrocoat Primed
- Vinyl Chip Resistant Coating in Lower Body Sides
- Application of Spray-On Sealer & Wax in Enclosed Areas

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)		Enamel
Hood	Material & mass	Zinc Plated Steel & 18.3 (40.3)
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Material & mass	N/A
	Type (counterbalance, other)	N/A
	Internal release control (elec., mech., n.a.)	N/A
Hatch-back lid	Material & mass	Zinc Plated Steel & 38.5 (84.9)
	Type (counterbalance, other)	Gas Struts
	Internal release control (elec., mech., n.a.)	Mechanical Cable (N/A w/GL Model)
Tailgate	Material & mass	N/A
	Type (drop, lift, door)	N/A
	Internal release control (elec., mech., n.a.)	N/A
Vent window control (crank, friction, pivot, power)	Front	N/A
	Rear	N/A
Window regulator type (cable, tape, flex, drive, etc.)	Front	N/A
	Rear	N/A
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Bucket
	Rear	50/50 Split Folding
	3rd seat	N/A
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Low Back Bucket
	Rear	50/50 Split Folding
	3rd seat	N/A

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE

Model Year 1990 Issued 11/88 Revised (e) _____

Body Type

ALL MODELS

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.) Standard/optional	First seat	Type 1 Lap Belt, Standard	N/A	Type 1 Lap Belt, Standard
		Second seat	Type 2 & 3-Point Lap, & Shoulder Belt, Std.	N/A	Type 2 & 3-Point Lap & Shoulder Belt, Std.
		Third seat	N/A	N/A	N/A
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt) Standard/optional	First seat	Motorized — 2-Point Shoulder Belt	N/A	Motorized — 2-Point Shoulder Belt
		Second seat	N/A	N/A	N/A
		Third seat	N/A	N/A	N/A

Glass	SAE Ref.No.	
Windshield glass exposed surface area [cm ² (in. ²)]	S1	8646 (1340.1)
Side glass exposed surface area [cm ² (in. ²)]-total 2-sides	S2	9839 (1525.0)
Backlight glass exposed surface area [cm ² (in. ²)]	S3	6911 (1071.2)
Total glass exposed surface area [cm ² (in. ²)]	S4	25,396 (3936.3)
Windshield glass (type)		Laminated
Side glass (type)		Tempered
Backlight glass (type)		Tempered

Headlamps

Description-sealed beam, halogen, replaceable bulb, etc.	Halogen
Shape	Rectangular
Lo-beam type (2A1, 2B1, 2C1, etc.)	
Quantity	Two (Combined Two Headlamp System)
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	
Quantity	Two (Combined Two Headlamp System)

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized Construction with Separate Front Sub-Frame
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MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE

Model Year 1990

Issued 11/88

Revised (●)

Body Type

ALL MODELS

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

Air conditioning (manual, auto. temp control)		Optional, Manual Temperature Control or Electronic Auto. Temperature Control (Auto. Temp. Avail. w/LX & GT Models)
Clock (digital, analog)		Standard, Digital (Integral with Radio)
Compass/thermometer		Optional, Thermometer (Integral with Trip Computer)
Console (floor, overhead)		Std., Flr. (Incl. Armrest, Storage & Rr. Illum. w/LX & GT); Overhead (N/A w/Base)
Defroster, elec. backlight		Optional (Std. w/LX & GT) (Mandatory State of New York)
Electronic	Diagnostic monitor (integrated, individual)	Optional, Individual w/Mech. Instr. or Integ. w/Elec. Instr.
	Instrument cluster (list instruments)	Optional, includes: Digital Speedometer and Odometer, Analog Tachometer, Variable Set Speed Warning, and Graphic Temperature/Oil Press./Voltage/Fuel
	Keyless entry	N/A
	Tripminder (avg. spd., fuel)	Opt., Computer Incl.: Fuel Econ., Dist. to Empty, Avg. Spd., Dist. Travelled, Travel Time, Dist. to Dest. & Time to Dest. (w/LX & GT Models)
	Voice alert (list items)	N/A
	Other	
Fuel door lock (remote, key, electric)		Standard, Cable Remote (N/A w/GL Model)
Lamps	Auto head on/off delay, dimming	N/A
	Cornering	N/A
	Courtesy (map, reading)	Standard, Map (N/A w/GL Model)
	Door lock, ignition	Standard, Ignition & Door (N/A w/GL Model)
	Engine compartment	Standard (Optional w/GL Model)
	Fog	Standard with GT Model
	Glove compartment	Standard (Optional w/GL Model)
	Trunk /Cargo	Standard (N/A w/GL Model)
	Illuminated entry system (list lamps, activation)	Standard, Footwell (N/A w/GL Model)
	Other	
Mirrors	Day/night (auto. man.)	Standard, Manual
	L.H. (remote, power, heated)	Standard, Manual Remote w/GL; Power w/LX & GT (Opt. w/GL)
	R.H. (convex, remote, power, heated)	Std., Convex Man. Remote w/GL; Convex Pwr. w/LX & GT (Opt. w/GL)
	Visor vanity (RH/LH, illuminated)	Standard, RH only w/GL; RH & LH w/GT (Non Illuminated) (a)
Navigation system (describe)		N/A
Parking brake-auto release (warning light)		N/A

(a) RH & LH Illuminated Visor Vanity Mirrors — Standard w/LX (Opt. w/GT)

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE

Model Year 1990

Issued 11/88

Revised (●)

Body Type

ALL MODELS

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

Power equipment	Deck lid (release, pull down)		Standard, Hatchback Cable Release
	Door locks (manual, automatic, describe system)		Standard, Manual Optional, Power Door Locks
	Seats	2 - 4 - 6 way, etc.	Optional, 6-Way (Driver Only) w/LX & GT Models
		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		Optional w/LX & GT Models (Includes Power Door Locks)
	Vent windows		N/A
	Rear windows		N/A
Radio systems	Antenna (location, whip, w/shield, power)		Standard, RH Quarter, Whip; Optional, RH Quarter, Power
	Standard	AM, FM, stereo, tape compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	Electronic AM/FM Stereo with Integral Digital (LED) Station/Clock Dial
	Optional		<ul style="list-style-type: none">— Electronic AM/FM Stereo with Premium Sound— Electronic AM/FM Stereo w/Cassette & Premium Sound— Electronic AM/FM Stereo w/Cassette, Premium Sound, Digital Disc Player, Power Antenna & One Sub-Woofer Speaker (N/A w/GL)
	Speaker (number, location)		Std., Four, One Each Frt. Door & One Each Side Rr. Quarter — Opt., Four Premium Type w/Premium Sound or Five (Four Prem. Type + One Woofer) w/Prem. Sound & Digital Disc Player
	Roof: open air or fixed (flip-up, sliding, "T")		Optional, Flip-Up Sunroof — Manual
Speed control device		Optional	
Speed warning device (light, buzzer, etc.)		Optional, Light/Tone Alarm (Integral w/Electronic Instr.)	
Tachometer (rpm)		Standard, Analog Mechanical; Optional, Electronic Graph	
Telephone system (describe)		N/A	
Theft deterrent system		N/A	
Steering Wheel & Shift Knob, Leather Wrapped		Standard w/LX & GT Models	

MVMA Specifications

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

Vehicle Line PROBE
Model Year 1990 Issued 11/88 Revised (e) 3/31/89

(e) Body Type	SAE Ref. No.	GL MODELS	LX MODELS	GT MODELS
Width				
Tread (front)	W101	1455 (57.3)		
Tread (rear)	W102	1466 (57.7)		
(e) Vehicle width	W103	1725 (67.9)		1735 (68.3)
Body width at SgRP (front)	W117	1718 (67.6)		
Vehicle width (front doors open)	W120	3990 (157.1)		
Vehicle width (rear doors open)	W121	N/A		
Tumble-home (deg.)	W122	24.4°		
Outside mirror width	W410	1878 (73.9)		
Length				
Wheelbase	L101	2515 (99.0)		
Vehicle length	L103	4496 (177)		
Overhang (front)	L104	956 (37.6)		
Overhang (rear)	L105	1025 (40.4)		
Upper structure length	L123	2825 (111.2)		
Rear wheel C/L "X" coordinate	L127	2515 (99.0)		
Height*				
Passenger distribution (front/rear)	PD1,2,3	2/2		
Trunk/cargo load		36.3 (80)		
(e) Vehicle height	H101	1316 (51.8)	1318 (51.9)	1321 (52.0)
(e) Cowl point to ground	H114	911 (35.9)	913 (35.9)	922 (36.3)
(e) Deck point to ground	H138	966 (38)	968 (38.1)	971 (38.2)
(e) Rocker panel-front to ground	H112	200 (7.9)	202 (7.9)	205 (8.1)
(e) Rocker panel-rear to ground	H111	199 (7.9)	201 (7.9)	204 (8.0)
Windshield slope angle	H122	64°		
Backlight slope angle	H121	71.5°		
Ground Clearance*				
(e) Front bumper to ground	H102	201 (7.9)	203 (8.0)	187 (7.3)
(e) Rear bumper to ground	H104	358 (14.1)	361 (14.2)	320 (12.6)
(e) Bumper to ground (front at curb mass (wt.))	H103	194 (7.6)	196 (7.7)	180 (7.0)
(e) Bumper to ground (rear at curb mass (wt.))	H105	328 (12.9)	331 (13.0)	290 (11.4)
Angle of approach (degrees)	H106	14.7°		14.1° w/Air Dam (a)
Angle of departure (degrees)	H107	14.1°		17.4°
Ramp breakover angle (degrees)	H147	13.8°		
(e) Axle differential to ground (front/rear)	H153	177 (6.97) Front	179 (7.0)	182 (7.16)
(e) Min. running ground clearance	H156	127.5 (5.0)	129 (5.1)	138 (5.4)
Location of min. run. grd. clear.		Catalyst		

*All vehicle height and ground clearances are measured at the Manufacturer's Design Load Weight.

Manufacturers 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.

(a) 15.7° without Air Dam

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line PROBE
Model Year 1990 Issued 11/88 Revised (e) 3/31/89

Body Type

GL MODEL

LX MODEL

GT MODEL

SAE
Ref.
No.

Front Compartment

SgRP front, "X" coordinate	L31	1360 (53.5)	
Effective head room	H61	947 (37.3)	
Max. eff. leg room (accelerator)	L34	1080 (42.5)	
SgRP to heel point	H30	223 (8.8)	
SgRP to heel point	L53	887 (34.9)	
Back angle	L40	24°	
Hip angle	L42	96°	
Knee angle	L44	129°	
Foot angle	L48	87°	
Design H-point front travel	L17	230 (9.1)	
Normal driving & riding seat track trvl.	L23	19 (0.7)	
Shoulder room	W3	1389 (54.7)	
Hip room	W5	1417 (55.8)	1350 (53.1)
Upper body opening to ground	H50	1259 (49.6)	
Steering wheel maximum diameter*	W9	380 (15)	
Steering wheel angle	H18	21° 15'	
Accel. heel pt. to steer. whl. cntr	L11	545 (21.5)	
Accel. heel pt. to steer. whl. cntr	H17	430 (16.9)	
Undepressed floor covering thickness	H67	0	

Rear Compartment

SgRP point couple distance	L50	678 (26.7)	
Effective head room	H63	889 (35)	
(e) Min. effective leg room	L51	LH 759 (29.9), RH 775 (30.5)	
SgRP (second to heel)	H31	LH 236 (9.3), RH 246 (9.7)	
Knee clearance	L48	LH -51 (-2), RH -54 (-2.1)	
Shoulder room	W4	1364 (53.7)	1359 (53.5)
Hip room	W6	1209 (47.6)	
Upper body opening to ground	H51	1272 (50.1)	
Back angle	L41	24°	
Hip angle	L43	LH 72°, RH 74°	
Knee angle	L45	LH 67°, RH 69.5°	
Foot angle	L47	LH 116°, RH 116.5°	
Depressed floor covering thickness	H73	16 (0.6)	

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	342 (11.9)	
Liftover height	H195	707 (27.8)	

Interior Volumes (EPA Classification)

Vehicle class		Compact	
(e) Interior volume index (cu. ft.)**		102.5	101.9
Trunk/cargo index (cu. ft.)		11.9	

*See page 14.

**Includes passenger and trunk/cargo index — see General Section for definition.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line PROBE
Model Year 1990 Issued 11/88 Revised (e) 6/16/89

Body Type

GL MODEL

LX MODEL

GT MODEL

Station Wagon—Third Seat SAE Ref. No. (NOT APPLICABLE)

Seat facing direction	SD1	
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	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

Station Wagon—Cargo Space (NOT APPLICABLE)

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 seatback to load floor height	H197	
Cargo volume index [m ³ (ft. ³)]	V2	
Hidden cargo volume index [m ³ (ft. ³)]	V4	
Cargo volume index-rear of 2-seat	V10	

Hatchback—Cargo Space

Cargo length at front seatback height	L208	1116 (43.9)	
Cargo length at floor (front)	L209	1733 (68.2)	
Cargo length at second seatback height	L210	742 (29.2)	
Cargo length at floor (second)	L211	1028 (40.5)	
Front seatback to load floor height	H197	612 (24.1)	
Second seatback to load floor height	H198	465 (18.3)	450 (17.7)
Cargo volume index [m ³ (ft. ³)]	V3	1.18 (41.9)	1.16 (40.9)
Hidden cargo volume index [m ³ (ft. ³)]	V4	N/A	
(e) Cargo volume index-rear of 2-seat	V11	0.34 (11.9)	

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE
 Model Year 1990 Issued 11/88 Revised (e) 3/31/89

(e) Body Type

GL MODEL

LX MODEL

GT MODEL

Vehicle Fiducial Marks

Fiducial Mark
Number*

Define Coordinate Location

Front

Rear

Fiducial
Mark
Number

	W21*	N/A		
	L54*	N/A		
Front	H81*	N/A		
	H181*	N/A		
(e)	H183*	287 (11.3)	294 (11.5)	292 (11.5)
	W22*	N/A		
	L55*	N/A		
Rear	H82*	N/A		
	H182*	N/A		
(e)	H184*	287 (11.3)	294 (11.5)	292 (11.5)

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

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line PROBE
Model Year 1990 Issued 11/88 Revised (e) 3/31/89

Vehicle Mass (weight)

CodeModel		CURB MASS, kg. (lb.)*			% PASS. MASS DISTRIBUTION				ETWC** Code
		Front	Rear	Total	Pass. In Front		Pass. In Rear		
					Front	Rear	Front	Rear	
	99C/445 2.2L Engine								
	w/5-Speed Manual Trans.								
(e)	99C/445AF	766	473	1239	51	49	21	79	Q
(e)	2-Door GL Model	(1690)	(1040)	(2730)					
	99L/445 2.2L Turbo Engine								
	w/5-Speed Manual Trans.								
(e)	99L/445AX	862	499	1361	51	49	21	79	S
(e)	2-Door GT Model	(1900)	(1100)	(3000)					
	99C/440 2.2L Engine								
	w/Optional Automatic Trans.								
(e)	99C/440AF	805	470	1275	51	49	21	79	R
(e)	2-Door GL Model	(1775)	(1035)	(2810)					
	99L/440 2.2L Turbo Engine								
	w/Optional Automatic Trans.								
(e)	99L/440AX	896	497	1393	51	49	21	79	T
(e)	2-Door GT Model	(1975)	(1095)	(3070)					
(e)	99U/445 3.0L Engine								
	w/5-Speed Manual Trans.								
(e)	99U/445AI	865	482	1347	51	49	21	79	S
(e)	2-Door LX Model	(1905)	(1065)	(2970)					
(e)	99U/440 3.0L Engine								
	w/Optional Automatic Trans.								
(e)	99U/440AI	897	480	1377	51	49	21	79	T
(e)	2-Door LX Model	(1975)	(1060)	(3035)					

*Reference — SAE J1100 Motor vehicle dimensions, curb weight definition.

**ETWC — Equivalent Test Weight Class — basis for U.S. Environmental Protection Agency emission certifications.
Refer to ETWC code legend below for test weight class.

ETWC LEGEND

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

SHIPPING MASS (weight) Calculation (Kg. (lbs.))

Shipping Mass (weight) = Curb Weight Less:

49 (108)

METRIC (U.S. Customary)

Vehicle Line PROBE
Model Year 1990 Issued 11/88 Revised (e) 3/31/89

[illegible]

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