MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

19891/2

Manufacturer	Vehicle Line	Vehicle Line	
FORD MOTOR COMPANY	MERC	MERCURY TRACER	
Mailing Address			
P.O. BOX 2053 DEARBORN, MICHIGAN 48121	Issued APRIL 31, 1989	Revised MAY 15, 1989	

Direct questions concerning these specifications to the manufacturer listed above.

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Forms Provided by Technical Affairs Division

METRIC (U.S. Customary)

Vehicle Line	MERCURY TRA	CER		
Model Year	1989½ Issued	3/31/89	Revised (*).	5/15/89

Vehicle Origin

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

Vehicle Models

	Model Description & Drive (FWD/RWD/AWD/4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)
(0)	MERCURY TRACER (FWD)	10/5/89	,		
	2-Door Hatchback		DA/HVS	2/2	36.0 (80)
	4-Door Hatchback		HC/HVS	2/2	36.0 (80)
	4-Door Wagon		FF/HVS	2/2	36.0 (80)

MERCURY TRACER Vehicle Line _ Model Year 1989% Issued 3/31/89 Revised (•) _

METRIC (U.S. Customary)

Power Teams

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

			A.	В	С	D
	Engine	Code	995	995		
	Displace Liters (ement in²)	1.6 (97.5)	1.6 (97.5)		
E	Induction (FI, Ca	on system rb, etc.)	Electronic Port Fuel Injection	Electronic Port Fuel Injection		
G	Compre	ession	9.3	9.3		
E	SAE	Power kW (bhp)	61 (82) @ 5000	61 (82) @ 5000		
	Net at RPM	Torque N - m (lb. ft.)	125 (92) @ 2500	125 (92) @ 2500		
	Exhaus single,		Single	Single		
TR	Transn Transa	nission/ xle	5-Spd. Man. Transaxle	3-Spd. Auto. Transaxle		
A N S	Axle R (std. f		3.85 — Hatchback 4.10 — Wagon	3.63		

Series Availability		Power Teams (A-B-C-D)	
Code	Standard	Optional	
DA/HVS	Α	В	
HC/HVS	Α	8	
FF/HVS	Α	B	
	<u> </u>		
		,	
	Code DA/HVS HC/HVS	Code Standard DA/HVS A HC/HVS A	

Vehicle Line MERCURY TRACER Model Year 1989% Issued 3/31/89 Revised (*)_

METRIC (U.S. Customary)

Engine Description Engine Code

1.6

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 Överhead Camshaft, Multi-Spherical Combustion Chambers
Manufacturer		Mazda
No. of cylinders	· ····································	Four
Bore		78. (3.07)
Stroke ·		83.6 (3.29)
Bore spacing (C	C/L to C/L)	86 (3.38)
Cylinder block ma	iterial & mass kg (lbs.) (machined)	Cast Iron
Cylinder block of	leck height	208.5 (8.13)
Cylinder block i	ength	373.5 (14.7)
Deck clearance (above or below		0
Cytinder head m	naterial & mass kg (lbs.)	Cast Aluminum Alloy & 8 (17.6)
Cylinder head v		36.4
Cylinder liner ma	aterial	N/A
Head gasket thi (compressed)	ckness	1.25 (0.05)
Minimum combutotal volume (cn		48.2
Cyl. no. system	L. Bank	1, 2, 3, 4
(front to rear)*	R. Bank	N/A
Firing order		1, 3, 4, 2
intake manifold	material & mass [kg (lbs.)]**	Cast Aluminum Alloy & 2.9 (6.4)
Exhaust manifold	d material & mass [kg (lbs.)]**	Cast Iron & 7.3 (16.1)
Fuel required un	leaded, diesel, etc.	Regular Unleaded
Fuel antiknock i	ndex (R + M) + 2 .	87 Minimum
	Quantity	
Engine mounts	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.	
mounts	Added isolation (sub-frame, crossmember, etc.)	
Total dressed er	ngine mass (wt) dry***.	108 (237.6)
Engine — f	Pistons	
Material & mass (weight, oz.)-pis		Cast Aluminum Alloy & 268 (9.45)
Engine — (Camshaft	
Location		On Cylinder Head
Material & mass	kg (weight, lbs.)	Cast Iron & 2.39 (5.28)

Belt

Chain/belt

Width/pitch

22 (0.87)/8 (0.32)

Drive type

^{*}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 Generator.

Vehicle Line MERCURY TRACER

Model Year 1989½ Issued 3/31/89 Revised (e)

METRIC	(U.S. Cu	stomary)	
Engine Dec Engine Cod			1.6L
Engine -	- Valve S	ystem .	
Hydraulic lift	ers (atd., opt.	, NA)	Standard
Mahara	Number inta	ke/exhaust	4/4
Valves	Head O.D. in	ntake/exhaust	38 (1.5)/32 (1.26)
Engine -	- Connec	ting Rods	
Material & m	iass [kg., (we	ight, lbs.}}*	Carbon Steel & 0.55 (1.21)
Length (axe	to €) mm		132 (5.2)
Engine -	- Cranksh	naft	
Material & m	ass [kg., (we	ight, lbs.)]*	Cast Iron & 10.2 (22.5)
End thrust to	ken by beerin	ng (no.)	#2
Length & nu	nber of main	bearings	5
Seal (materi		Front	Rubber
piece design	, etc.)	Rear	Rubber
Engine -	- Lubricai	tion System	
Normal oil pro	ssure (kPa (p	si) at engine rpm	294-392 (42.6-56.8) @ 3000
Type oil inta	ke (floating, s	tationary)	Stationary
Oil filter sys	tem (full flow,	part, other)	Full Flow
Capacity of	c/case, less	filter-refill-L (qt.)	3.4 (3.8)
Engine -	- Diesel I	nformation	(NOT OFFERED)
Diesel engin	manufacture	r	
Glow plug, c	urrent drain at	0°F	,
Injector	Туре	<u> </u>	
nozzie	Opening pre	ssure [kPa (psi)]	
Pre-chamber	design		
Fuel injec-	Menufacture	<u> </u>	
tion pump	Туре		
		(belt, chain, gear)	
	ry vacuum soi	urce (type)	
Fuel heater (yes/no)			<u>'</u>
Water separator, description (std., opt.)		on 	
Turbo manufacturer			
Oil cooler-typoil to ambien	oe (oil to engi it air)	ne coolant;	
Oil filter			
Engine -	- intake S	System	(NOT APPLICABLE)
Turbo charge	r · manufactur	er	
Super charge	r - manufactur	er	

intercooler

^{*}Finished State

MVMA Specifications Form

Vehicle Line MERCURY TRACER

Model Year 1989½ | Issued 3/31/89 | Revised (e) |

METRIC (U.S. Customary)

Engine Description Engine Code

1.6L
W/MANUAL TRANS.
W/AUTO. TRANS.

Coolent res	covery system (std., opt., n.s.)	Standard	
		Radiator w/Added Bottle	
	location (rad., bottle)	90 (13)	
	ap relief valve pressure [kPa (psi)]		
Circulation thermostat	Type (choke, bypass)	Bypass	
	Starts to open at "C("F)	Sub 85° (185°); Main 88° (190.4°)	
	Type (centrifugal, other)	Centrifugal 2.9	
	GPM 1000 pump rpm		
Water	Number of pumps	1	
Pump	Drive (V-belt, other)	V-Belt	
	Bearing type	Bail	· ·
	Impeller material	Steel	
	Housing material	Cast Aluminum Alloy	
By-pass re	circulation [type (inter., ext.)]	External	
Cooling	With heater-L(qt.)	5 (5.3)	6.0 (6.3)
system capacity	With air conditioner-L(qt.)	5 (5.3)	6.0 (6.3)
	Opt. equipment [specify-L(qt.)]	5 (5.28)	6 (6.34)
	ets full length of cyl. (yes, no)	Yes	
Water all around cylinder (yes, no)		No	, .
Water jackets open at head face (yes, no)		Yes	·
	Std., A/C, HD	Std.	
	Type (cross-flow, etc.)	Vertical Flow	
•	Construction (fin & tube mechanical, braze, etc.)	Tube & Fin	·
Radiator core	Material, masa [kg (wgt, lbs.)]	Brass-Tube, Copper-Fin	
	Width	528 (20.8)	
	Height	350 (13.8)	
	Thickness	16 (0.63)	32 (1.26)
•	Fins per inch	2.25	2.5
Radiator, en	d tank material	Resin Plastic	
	Std., elec., opt.	Electric	
	Number of blades & type (flex, solid, material)	4	•
	Diameter & projected width	300 (11.8)	
	Ratio (fan to crankshaft rev.)	N/A	
	Fan cutout type	Coolant Sensor & Electric Switch	
an	Drive type (direct, remote)	N/A	
	RPM at idle (elec.)	2100	2080
	Motor rating (wattage) (elec.)	80	120
	Motor switch (type & location) (elec.)	Thermo Switch & Water Outlet	
	Switch point (temp., pressure) (elec.)	Temp. 97° (206.6°)	

Vehicle LineN	IERCURY TRACER	
Model Year 198	9½ lasued 3/31/89	Revised (•)

METRIC (U.S. Customary)

Engine	Description
Engine	Code

1.8L

Induction typinjection sys	e: carburetor, fuel tem, etc.	Fuel Injection
Manufacture	•	Nippon-Denso
Carburetor n	o. of barrels	N/A
Idle A/F mix		14.7 (Feedback)
	Point of injection (no.)	Intake Port (4)
Fuel	Constant, pulse, flow	Pulse
injection	Control (electronic, mech.)	Electronic
	System pressure [kPa (psi)]	196-216 (28.4-31.3)
idle spdrpm	Manual	850
(spec. neutral or		
drive and propane if	Automatic	850
used)		
	old heat control (exhaust rmostatic or fixed)	N/A
Air cleaner t	уре	Wet Type
Fuel filter (ty	pe/location)	Paper Element
	Type (elec. or mech.)	Impeller (Electric)
Fuel	Location (eng., tank)	In-Tank
onud	Pressure range [kPa (psi)]	250 (36.27)
	Flow rate at requiated pressure (L (gal)/hr@kPs (psi))	More than 80 (21.1)/hr. @ 250 (36.27)

Fuel Tank

Capacity [refill L (gations)]		45 (11.9)
Location (d	fescribe)	In Front of Rear Suspension
Attachment		4 Bolts
Material &	Mass [kg (weight lba.)]	Steel & 8.2 (18.1)
Filler	Location & material	Left Rear Quarter Panel & Steel
pipe	Connection to tank	Rubber Hose
Fuel line (n	naterial)	Steel
Fuel hose	(material)	Reinforced Rubber
Return line	(meterial)	Steel
Vapor line	(material)	Steel
	Opt., n.a.	N/A
Extended	Capacity [L (gallons)]	-
range tank	Location & material	
	Attachment	
	Opt., n.a.	N/A
Auxiliery tenk	Capacity [L (gailons)]	
	Location & material	-
	Attachment	-
	Selector switch or valve	
	Separate fill	

METRIC (U.S. Customary)

Vehicle Line MERCUR	Y TRACER_		
Model Year 1989½	lasued 3/31/89	Revised (*)	

Engine Description Engine Code	

_				
Engine Description Engine Code				
Vehicle	Emission	Cont	rol	
	Type (air injection, angine modifications, other)			O, S/TWC
		Pump	or pulse	N/A
		Driven	by	N/A
	Air Injection		tribution manifold, etc.)	N/A
		Point o	of entry	N/A
	Exhaust		controlled flow, prifice, other)	N/A
, 	Gas Recircula-	Exhaus	st source	N/A
Exhaust Emission Control	tion	(space	of exhaust injection or, carburetor, id, other)	N/A .
		Туре		3-Way, Side Flow
		Numbe	r of	1 (2-Bed)
		Locatio	on(a)	Under Floor
	Catalytic	Volume	[L (in²)]	0.79 x 2 (48.2 x 2)
	Converter	Subatr	ste type	Monalith
	1	Noble	metal type	Pt/Rh
		Noble Conce	metal ntration (g/cm²)	0.00018
	Type (ventilates to atmosphere, induction system, other)			Induction System
Crankcase Emission Control	Energy source (manifold vacuum, carburetor, other)		nifold , other)	Manifold Vacuum
	Discharges manifold, of		ke	To Surge Tank
	Air inlet (br		ap, other)	Air Pipe
Evapora-	Vapor vente (crankcase,		Fuel tank	Canister
tive Emission	canister, ot		Carburetor	Canister
Control	Vapor store	ge prov	ision	Canister
Electronic	Closed loop	(yes/n	o) , '	Yes
system	Open loop	(yes/no		No
Engine	— Exhau	st Sys	stem	•
Type (single dual, other)	e, single with	cross-	over,	Single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]		traight thru, sepa- kg (weight lbs.)]	One, Expansion, Aluminized & 7 (15.4)	
Resonator	onator no. & type			One, Resonance
F	Branch o.d., wall thickness		ickness	N/A
Exhauat pipe	Main o.d., well thickness		rness	45.0 x 2.0 (1.8 x 0.08)
	Material & Mass [kg (weight lbs.)]			Stainless Steel & 3 (6.6)
Inter- mediate	o.d. & wall			42.7 x 1.6 (1.68 x 0.06)
pipe	Material & Mass [kg (weight lbs.)]			Aluminum Coated Steel & 6 (13.2)
Tail	o.d. & wall thickness			38.1 x 1.2 (1.5 x 0.05)
pipe	Material & I	Mass (k	(weight lbs.)	Stainless Steel & 1 (2.2)
				

Vehicle Line MERCURY TRACER Model Year 1989% .lssued 3/31/89 .Revised (e)

METRIC	; (U.S. C	ustomary)	
Engine Description Engine Code			ALL MODELS
Transmi	ssions/Tr	ansaxle (Std.,	Opt., N.A.)
Manual 3-sp	eed (manuta	cturer/country)	N/A
Manual 4-sp	eed (manufa	cturer/country)	N/A
Manual 5-sp	eed (manufa	cturer/country)	Standard (Mazda/Japan)
Automatic (manufacturer	/country)	Optional (Mazda/Japan) 3-Speed
Automatic o	verdrive (mai	nufacturer/country)	N/A
Manual ¹	Transmiss	sion/Transaxie	
Number of t	orward spee	ds	Five (M5)
	1st		3.42
	2nd		1.84
Gear	3rd		1.29
ratios	4th		0.92
	5th		0.73
	Reverse		3.21
Synchronou	a meshing (s	pecify gears)	All Forward Gears
Shift lever I	ocation		Floor
Trans. case	mat'i. & ma	sa kg (lbs)*	Aluminum & 29.8 (65.7)
Lubricant	Capacity (L	. (pt.)]	3.2 (6.8)
Lubriçam	Туре гесол	mended	API GL-4 or GL-5 (SAE 90 or 80W-90)
Clutch (F	Manual Tr	ansmission)	
Clutch manu	facturer		Daikin
Clutch type	(dry, wet; si	ngie, multiple disc)	Single Disc, Dry Plate
Linkage (hyd	draulic, cable	, rod, lever, other)	Cable
Max. pedal e	effort (nom.	Depressed	
	new) N (lba)	Released	
Assist (sprin	ng, power/pe	ercent, nominal)	N/A
Type pressu	Type pressure plate springs		Diaphragm Spring
Total spring load (nominal, new) N (lbs)		si, new) N (lbs)	3277 (736.7)
	Facing mfgr. & material coding		Valqua
	Facing material & construction		Molded (Non-Asbestos)
	Rivets per facing		18
	Outside x inside dia. (nominal)		190 (7.5)/132 (5.2)
Clutch	Total eff. area [cm ² (in. ²)]		147 (22.8)
facing :	Thickness (pressure plate side/ fly wheel side)		3.5 (0.14)
	Rivet depth (pressure plate side/ fly wheel side)		1.4 (.055)/1.4 (.055)

Engagement cushion method

Release bearing type & method lub.

Torsional damping method, springs, hysteresis

Cushion Spring

Ball & Pre-Packed

Coil Springs and Friction Material

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

MVMA Specifications Form

 Vehicle Line
 MERCURY TRACER

 Model Year
 1989½
 Isaued 3/31/89
 Revised (e)

METRIC (U.S. Customary)

Engine	Description
Engine	Code

ALL MODELS

Trade name	1	Transaxie (F3A)	
Type and s	pecial features (describe)	Lock-up Torque Converter	
	Location (column, floor, other)	Floor	
Gear Selector	Ltr./No. designation (e.g. PRND21)	PRND21	
	Shift interlock (yes, no, describe)		
	1st	2.84	
_	2nd	1.54	
Gear ratios	3rd	1.0	
	4th	-	
	Reverse	2.4	
Max. upshift	speed - drive range [km/h (mph)]	95 (59)	
Max. kickdo	wn speed - drive range [km/h (mph)]	87 (54)	
Min. overdri	ve speed [km/h (mph)]	N/A	
-	Number of elements	Three	
	Max. ratio at stail	2.0:1	
Forque converter	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	2.36 (9.3)	
	Capacity factor "K"*	243	
	Capacity [refill L (pt.)]	5.7 (12.1)	
Lubricant	Type Recommended	ATF Type F (M2C33-F)	-
Oil cooler (atd., opt., NA, internal, external, air, liquid)		Standard, External Combined w/Rad. Eng. Coolant	
Ironemieeios	n mass kg (lbs) & case material**		

All Wheel/4 Wheel Drive

(NOT APPLICABLE)

Center differential Type (bevel, planetary, w or w/o viscous bias, forsen, etc.)

Torque split (% front/rear)

*Input speed + \sqrt{torque}

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

Vehicle Line MERCURY	TRACER
Model Year 19891/2	Issued 3/31/89 Revised (e)

METRIC (U.S. Customary)

Engine	Description
Engine	Code

ALL MODELS

Axie Ratio and Tooth Combinations (See 'Power Teams' for axie ratio usage)

Effective fi	inal drive ratio	(or overall top gear ratio)	3.63:1 (F3A)	2.81:1 (M5)	3.00:1 (M5)
Tranafer r	atio and met	hod (chain, gear, etc.)	3.63:1, Gear	3.85:1, Gear	4.11:1, Gear
Front drive unit	Ring gear o.d.		180 (7.1)	200 (7.8)	202.5 (8.0)
	No. of	Pinion	19	20	19
	teeth	Ring gear	69	77	78

Ø Front Drive Unit

		trans., etc.)	integral to Transmission
Limited slip	differential	(type)	N/A
Data a at-1-		Туре	
Drive pinion		Offset	
No. of diffe	rent pinions		Two
		Adjustment (shim, etc.)	None
Pinion/diffe	rential	Bearing adjustment	Shim
Driving whe	el bearing (type) .	Tapered Roller
	Capacity [L (pt.)]		5.7 (12.1)
Lubricant	Type recommended		ATF (M2C33F)

Axle Shafts — Front Wheel Drive

Manufacturer and number used				Two
Type (straig)	nt. solid bar.	tubular.	Left	Solid Bar
etc.) Right		Right	Solid Bar	
	Manual transaxle		Left	22 x 381 (0.87 x 15)
Outer			Right	22 x 657 (0.87 x 25.9)
diam. x			Left	22 x 378 (0.87 x 14.9)
length* x wall	Automatic	transaxie	Right	22 x 653 (0.87 x 25.7)
thickness			Left	22 x 381 (0.87 x 15)
	Optional tr	ansaxie	Right	22 x 657 (0.87 x 25.9)
	Туре			N/A
Slip yok a	Number of teeth			N/A
•	Spline o.d.			N/A
	Inner		Inner	Toyo Bearing K.K.
	Make and	Make and mfg. no.		Toyo Bearing K,K.
	Number used			4
			Inner	Double Offset Joint-Man. Trans.; Tripod Joint-Auto. Trans.
Universal	Type, size,	plunge	Outer	Ball Joint
joints	Attach (u-t	olt, clamp,	etc.)	N/A
		Type (plain, anti-friction)		Anti-Friction
	Lubrication (fitting, prepack)			Prepacked
	Drive taken through (torque tube, arms or springs)			Lower Arms & Struts
	Torque taken through (torque tube, arms or springs)			Engine Mounting System

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

Vehicle Line MERCURY TRACER

Model Year 19891/2 Issued 3/31/89 Revised (*)

METRIC (U.S. Customary)

Body	Type	And/Or
En gin	Disp	placement

ALL MODELS W/MAN. TRANS.

ALL MODELS W/OPT. AUTO. TRANS.

			· · · · · · · · · · · · · · · · · · ·
	Sta	ndard/optional/not avail.	N/A ·
	Ma	nual/automatic control	
	Тур	e (air/hydraulic)	
Car	Pris	nary/assist spring	
leveling	Rea	er only/4 wheel leveling	
	Sin	gie/dual rate spring	
	Sin	gle/dual ride heights	-
	Pro	vision for jacking	Designated Rocker Panel Locations
	Sta	ndard/option/not avail.	N/A
	Mai	nual/automatic control	-
	Nur	nber of damping rates	–
Shock absorber		e of actuation (manual/ ctric motor/air, etc.)	_
damping controls	3	Lateral acceleration	
	n	Deceleration	-
	0	Acceleration	
	5	Road surface	
Shock absorber	Тур	0	Strut Type — Front & Rear
	Mai	ke	Tokiko/Kayaba
(front & rear)	Pist	ton diameter	.20 (0.79) Front and 18 (0.71) Rear
16411	Roc	diameter	45 (1.77)
		. 4161110101	

Suspension — Front

Type and description		Strut Type, Independent Front Drive	with Upper Strut Mounted Coil Spring	
	Full jounce	85 (3.35)	···	
Travel*	Full rebound	90 (3.54)		
	Type (coil, leaf, other) & material	Coil, Chromium Alloy Steel		
	Insulators (type & material)	Upper to Match Spring & Rubber		
Spring	Size (coil design height & i.d.)	Coil 391 (15.39 & 120 (4.72), 12.5 (0.49) — Wire Dia.	Coil 374 (14.72) & 118.4 (4.68), 13.3 (0.52) — Wire Dia.	
	Spring rate [N/mm (lb./in.)]	18.6 (106)		
	Rate at wheel [N/mm (lb./in.)]	17.6 (105)		
Stabilizer	Type (link, linkless, frameless)	Link (Manual Trans. Only)		
	Material & bar diameter	Steel & 27.2 (1.07)		

Suspension - Rear

Type and o	lescription	1	Strut Type, Independent Twin Trapezoidal Link with Upper Strut Mounted Coil Springs
Travel*	Full jou	nce	80 (3.15)
(BVO)	Full reb	ound	110 (4.33)
	Тура (с	oil, leaf, other) & material	Coil, Chromium Alloy Steel
	Size (length x width, coil design height & i.d.)		Coil 351 (13.80) & 103 (4.05), 10.2 (0.40) — Wire Dia.
	Spring rate [N/mm (lb./in.)]		14.7 (84)
pring	Rate at wheel [N/mm (lb./in.)]		15.6 (89)
	Insulators (type & material)		Upper to Match Spring & Rubber
	lt .	No. of leaves	N/A
	leaf	Shackle (comp. or tens.)	N/A
	Type (link, linkless, frameless)		Link
itabilizer	Material & bar diameter		Steel & 15.9 (0.63) or 17.3 (0.68)
rack bar	(type)	-	N/A

^{*}Define load condition:

MERCURY TRACER Vehicle Line _ Model Year 1989% lesued 3/31/89 Revised (*)

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

ALL MODELS

Brakes - Service

Brakes -	<u> </u>	LAICO					
Description					Four Wheel Hydraulic Actuated System		
Manufacture	r and		Front (disc or dre	(שו	Disc		
brake type (atd., op		pt., n.a.)	Rear (disc or dru	m)	Drum		
Valving type	(prop	ortion, dela	sy, metering, other)		Proportioning		
Power brake	s (std.,	орт., п.а.))		Standard		
Booster typ	e (remo	te, integr	ai, vac., hyd., etc.)		Single Diaphragm, Integral, Vacuum		
	Source	e (inline, _l	pump, etc.)		Inline		
Vacuum	Reser	voir (volur	me in.")		N/A		
	Pump	type (elec	c., gear driven, beit	driven)	N/A		
Traction	Opera	tional spe	ed range		N/A		
control	Type o	ingine inter	vention (electronic, m	ech.)	N/A		
	Front	rear (std.	opt., n.a.)		N/A		
	Manut	acturer			_		
	Туре	(electronic	, mech.)		_		
Anti-lock	Numb	er sensors	or circuits				
device	Numb	er anti-loc	k hydraulic circuita				
	Integr	al or add-	on system				
	Yaw (ontrol (ye	e, no)				
	Hydrau	lic power so	urce (elect., vec. mtr., p	wr. strg.)	-		
Effective are	ea (cm²	(in.²)]*			160 (24.8)/188 (29.1)		
Gross lining	area [:m²(in.²)]*	*(F/R)		160 (24.8)/188 (29.1)		
Swept area	[cm²(in	.²)]***(F/	R)		1034 (160.1)/314 (48.7)		
	Outen	working di	ameter	F/A	238 (9.4)/N/A		
	Inner	working di	emeter	F/A	144 (5.67)/N/A		
Rator,	Thickr	hickness F/R			18 (0.71)/N/A		
	Mater	ial & type	(vented/solid)	F/R	Cast Iron, Vented/N/A		
_	Diame	ter & widt	th	F/R	N/A/200 (7.9)		
Drum	Туре	and materi	iel	F/R	N/A/Cast Iron		
Wheel cyline	ier bor	9			50.8 (2.0)/17.5 (0.69)		
Master cylin	der	Bore / stre	oke	F/R	22.2 (0.87) — Bore/15 (0.59) — Stroke		
Pedal arc re	itio	<u>'</u>			4.6:1		
Line pressur	e at 44	6 N(100 I	b.) pedal load [kPa	(psi)	9,000 (1305)		
Lining clears				F/R	0.4 (0.016)/0.3 (0.012)		
		Bonded o	or riveted (rivets/se	ig.)	Bonded		
		Rivet size	e '		N/A		
		Manufact	urer	•	Sumitomo Kogyo		
	Front	Lining co	de		CP26		
	wheel	Material			Molded Resin		
		•••• Pr	imary or out-board		91.7 x 47.5 x 10 (3.6 x 1.87 x .39)		
		Size Se	econdary or in-boar	d	91.7 x 47.5 x 10 (3.6 x 1.87 x .39)		
Brake lining		Shoe thic	ckness (no lining)		5 (0.2)		
			or riveted (rivets/se	g.)	Bonded		
		Manufact	urer		Nisshin Boseki		
		Lining Co	ode****		JB-J87-FE		
	Rear	Material			Molded Resin		
	wheel		imary or out-board		192 x 25 x 5 (7.56 x 0.98 x 0.2)		
		Size Secondary or in-board		4	192 x 25 x 5 (7.56 x 0.98 x 0.2)		
			kness (na lining)	-	1.6 (0.06)		
*Evaluation	<u> </u>			*****			

^{*}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.

 Wehicle Line
 MERCURY TRACER

 Model Year
 1989½
 Issued 3/31/89
 Revised (e)

METRIC (U.S. Customary)

Body	Type	And/Qr
Engin	e Disp	piacement

HATCHBACK MODELS

WAGON MODEL

Tires	And	Whee	ls (S	itanda	ırd)
-------	-----	------	-------	--------	------

	Size (load range	e, ply)	P175/70R13		
	Type (bias, radia	i, steel, nylon, etc.)	Steel Belted Radial		
Tires	Inflation prea- sure (cold) for recommended max. vehicle load	Front [kPa (pai)]	200 (29)		
•		Rear [kPa (pai)]	200 (29)		
	Rev./mile — at	70 km/h (45 mph)			
	Type & material		Disc, Semi Styled Stamped Steel Aluminum, Styled		
	Rim (size & flan	ge type)	13 x 5.0JJ		
15/5	Wheel offset		45 (1.77)		
Wheels	Attachment	Type (bolt or stud)	Stud		
		Circle diameter	114.3 (4.5)		
	Number & size		4 — 12 (0.47)		
	Tire and wheel		T105/70D14		
Spare	Storage position (describe)	& location	Flat Position, Deep Well in Cargo Floor (Wagon — Under Body Suspension)	y Behind Rear	

Tires And Wheels (Optional)

Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	Aluminum (Includes Locking Lug Nuts)
Rim (size, flange type and offset)	13 x 5.0J, Offset 45 (1.77)
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 Location of control Operates on		Hand Operated — Manual Release	
		Between Front Seats — Floor	
		Rear Service Brakes	
	Type (internal or external)	N/A	
If separate from service brakes	Drum diameter	N/A	
	Lining size (length x width x thickness)	N/A	

Vehicle Line	MERCURY	TRACER		_
Model Year.	1989%	Issued 3/31/89	Revised (•)	_

METRIC (U.S. Customary)

Body	Туре	And/Or
Engin	e Disp	placement

ALL MODELS

Endine are	hiacaman	18		<u> </u>	
Steering				·	
Manual (std	., opt., n.a.)		Standard w/2-Door Hatchback	
Power (std.,				Optional (Standard w/4-Door Hatchback and Wagon)	
		Туре			
Adjustable steering whe	al/column		r	,	
(tilt, telesco		(Std., opt., n		N/A	
Wheel diam	****	Manual		380 (15.0)	
(W9) SAE J		Power		380 (15.0)	
	Outside	Wail to wall	(l. & r.)	10.1 (33.1)	
Turning	front	Curb to curb	(l. & r.)	9.4 (30.8)	
diameter m (ft.)	Inside	Wall to wall	(l. & r.)		
• •	rear	Curb to curb	(l. & r.)		
Scrub Radiu	a *			10 (0.39)	
		Туре		Rack and Pinion	
	_	Manufacture	,	Nippon Seiko	
Manual	Gear		1		
			Ratios	Overall	20.0:1 (On Center)
	No. wheel turns (stop to stop)		o stop)	3.6	
	Type (coaxial, elec., hyd., etc.)		/d., etc.)		
	Manufacturer			Nippon Power Steering Co.	
		Туре		Rack and Pinion	
Power	Geer	Dation	•••		
		Ratios	Overail	17.6:1 (On Center)	
	Pump (dri	ımp (drive)		Belt Off Crankshaft Pulley	
	No. whee	neel turns (stop to stop)		3.2	
1	Туре			Integral with Wheel	
Linkage	Location (front or rear of wheels, other)			Rear	
	Tie roda (one or two)		Two — Integral with Gear	
	Inclination	at camber (c	leg.)		
Steering		Upper		Shock Strut Shaft	
axis	Bearings (type)			Ball Joint	
	(1364)	Thrust		N/A	
Steering spi	ndle/knuck	le & joint type	•	Cast Spindle Support with Integral Steering Arm	
	Di	Inner bearing			
Wheel	Diameter	Outer bearing	0		
spindle/hub	Thread (a	ize)			
	Bearing (t	ype)		Tapered Roller	
		•			

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

[&]quot;See Page 22.

^{***}Rack Speed

METRIC (U.S. Customary)

Vehicle Line	MERCURY	TRACER		
Model Year	1989%	.lsaued <u>3/31/89</u>	Revised (•)	

Body	Type	And/Or
Engin	e Dis	placement

ALL MODELS

Wheel Alignment

Front wheel at curb mass (wt.)		Caster (deg.)	1°35′ ± 45′
		Camber (deg.)	0°48′ ± 45′
		Toe-in (outside track-mm (in.))	- 1 to 5 (- 0.04 to 0.2)
		Caster	Pre-Set
		Camber	Trend-Set
		Toe-in	Adjustable
	Periodic M.V. in- spection	Caster	Factory Set and Cannot Be Adjusted
		Camber	0 ± 45′
		Tae-in	0 ± 3 (0.12)
	Service	Camber (deg.)	- 0°0.2′ ± 45′
	checking	Toe-in [outside track-mm (in.)]	- 1 (.039) to 5 (0.2)
Rear vheel at	Service	Camber	Pre-Set
urb mass wt.)	reset*	Toe-in	Adjustable
~ 1.,	Periodic	Camber	
	M.V. in- spection	Toe-in	

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

Electrical - Instruments and Equipment

Speed-	Type (analog, digital, std., opt.)	Standard, Analog
ometer	Trip odometer (atd., opt., n.a.)	Standard
EGA mainter	nance indicator	N/A
Charge	Type	N/A
ndicator	Warning device (light, audible)	Standard, Light
Temperature indicator	Type	Standard, Gauge
	Warning device (light, audible)	N/A
Oil pressure indicator	Туре	N/A
	Warning device (light, audible)	Standard, Light
Fuel indicator	Туре	Standard, Gauge
	Warning device (light, audible)	Standard, Light
	Type (standard)	Std., 2-Spd. Electric (Col. Mtd. Cntl., Fixed Timing Interval Wipe)
Wind- shield	Type (optional)	N/A
xiper √iper	Blade length	450 (17.7)
	Swept area [cm ⁴ (in. ²)]	
Wind-	Type (standard)	Standard, Electric Pump
shield	Type (optional)	N/A
washer	Fluid level indicator (light, audible)	Standard, Light
Rear window	wiper, wiper/washer (std., opt., n.a.)	Standard w/Wagon Only (N.A. w/Hatchback Models)
1	Туре	Standard, Electric
Hom	Number used	Two

Vehicle Line MEHCURY TRACER

Model Year 1989½ Issued 3/31/89 Revised (e)

METRIC (U.S. Customary) SUPPLEMENTAL PAGE

Electrical — Instruments and Equipment: (Cont'd)

- Brake System Warning Light
- Directional Turn Signal Lights
- Emergency Flashers
- Hi-Beam Indicator
- Fasten Seat Belt Warning Light and Signal
- Headlamp On Warning Signal
- Stop Lamp Out Warning Light
- Diagnostic Warning Brake Lamp, Low Fuel, Washer Fluid
- Ignition and Driver Door Lock Illumination
- Interior Light Switches On All Passenger Doors

(II.C. Customany)

Vehicle Line MERCURY	/ TRACER		<u></u>
Model Year 19891/2	_lasued 3/31/89	_ Revised (*) _	

WEI	HIC	(U.S.	Charomai

Engine Description Engine Code

ALL MODELS

0.85

Front

Pre-Engaged

	Manufacturer	Pacific Chloride Inc.	
	Model, std., (opt.)	Standard	
	Voltage	12	
lattery	Amps at 0°F cold crank	390	
	Minutes-reserve capacity		
	Amp/hrs 20 hr. rate	60	
	Location	Left Front of Engine Compartment	
	Manufacturer	Mitsubishi	
	Rating (idle/max. rpm)	60 Amp.	
lternator	Ratio (alt. crank/rev.)	2.2:1	
	Output at idle (rpm, park)		
	Optional (type & rating)	N/A	
Regulator	Туре	Electronic Integral with Alternator	

Motor drive Plnion engages from (front, rear)	
---	--

Current drain __0_

Engagement type

Power rating [kw (hp)]

Motor

Electrica	al — Igni	ition System	
	Electronic (std., opt., n.s.)		Standard
Туре	Other (spe	ecify)	
	Manufacturer Model /		Hanshin
			SMC-0500
Coil		Engine stopped — A	
	Current	Engine idling — A	
	Manufacturer		Motorcraft
	Model		AGS-32C
Spark	Thread (mm)		M14 x 1.25
Spark plug	Tightening torque [N-m (lb, ft)]		15-23 (11.08-16.96)
	Gap		1.1 (0.04)
	Number per cylinder		One
	Manufactu	ref	Hitachi
Distributor	Model		Contact Less

Electrical — Suppression

Locations & type

Resistor Spark Plugs and Ignition Wires

Vehicle Line MERCURY TRACER

Model Year 1989/2 | Issued 3/31/89 | Revised (e) ______

METRIC (U.S. Customary)

		Г			
Body Type .			ALL MODELS		
Body					
		,			
Structure			Unitized All-Steel Welded Body with Energy Absorbing Front and Rear Structures		
	,				
Bumper system front-rear			Front/Rear — 5 MPH Bumper — Ford Requirements Front/Rear — Composite Energy Absorbing Plastic Bumper Systems		
Anti-corrosic	in treatment		 Major Exterior and Structural Sheet 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 Body Areas 		
Body -	Miscellaneou	s Information			
-	h (lacquer, ename		Enamel		
Material & mass			Steel		
	Hinge location (fi	ront, rear)	Rear		
Hood	Type (counterbal		Prop		
	Release control	(internal, external)	Internal		
	Material & mass		N/A		
Trunk	Type (counterbalance, other)				
lid	Internal release control (elec., mech., n.a.)				
	Material & mass		Steel		
Hatch- back lid	Type (counterbai	ance, other)	Gas Struts		
	Internal release c	ontrol (elec., mech., n.a.)	Mechanical Cable — Hatchback Models		
	Material & mass		Steel & 20.6 (45.4) (Wt. Does Not Incl. Glass)		
Tailgate	Type (drap, lift, a	door)	Lift — Wagon Model		
	internal release c	ontrol (elec., mech., n.a.)	N/A		
Vent windov	control (crank,	Front	N/A		
friction, pivo	t, power	Rear	N/A		
Window reg	ulator type	Front	N/A		
(cable, tape	, flex, drive, etc.)	Rear	N/A		
Seat cushic	n tvoe	Front	Stamped Frame — Spring & Foam Pad, Bucket (a)		
(e.g., 60/40), bucket, bench,	Réar	Formed Urethane, 50/50, Bench		
wire, foam	erc.)	3rd seat	N/A		
Seat back t	vne	Front	Stamped Frame — Spring & Foam Pad, Bucket w/Man. Recliner (a)		
(e.g., 60/40), bucket, bench,	Rear	Formed Urethane, 50/50, Bench		
wire, foam	91C.)	3rd seat	N/A		
		ŀ	1		

⁽a) Driver Seat Only, 6-Way Manual Adjustments and Manual 3-Position Lumbar Support

MERCURY TRACER Vehicle Line . Issued 3/31/89 .Revised (•) .

METRIC (U.S. Customary)

Body	Type
ocu,	1794

Body Type		ALL MODELS				
Restrain	t System		•			
Seating Po	sition			Left	Center	Right
Type & description (lap & shoulder belt,		First seat	Type 2: 3-Point Lap & Shoulder Belt, Standard	N/A	Type 2: 3-Point Lap & Shoulder Belt, Standard	
Active	Standard/optional		Second seat	Type 1: 2-Point Lap Standard	N/A	Type 1: 2-Point Lap Standard
	Standard / optional		Third seat	N/A	N/A	N/A
Type & description		First seat	N/A	N/A	N/A	
³ assive	(air bag, motorized- 2-point belt, fixed be knee bolster, manua lap belt)		Second seat	N/A	N/A	N/A
	Standard/optional		Third seat	N/A	N/A	N/A
Glass	1	SAE Ref. No.				
Windshield surface are	glass exposed ea (cm²(in.²))	S 1	8308.5 (1287.8)			
Side glass area (cm²(i	exposed surface n.²)}-total 2-sides	S2	12307.5 (1907.7)			
Backlight g surface, are	plass exposed sa [cm²(in.²)]	S3	7598.7 (1177.8)			
lotal glass trea [cm²(i	exposed surface n.²)	S4	28214.7 (4373.3)			
Windshield	glass (type)		Laminated			
Side glass	(type)		Tempered			
Backlight (plass (type)		Tempered			
Headlan	nps					
	-sealed beam, placeable bulb, etc.		Halogen			
Shape			Rectangular			
o-beam ty 2C1, etc.)	rpe (2A1, 2B1,		N/A			
Quantity			Two (Combined Two Headlamp System)			
Hi-beam type (1A1, 2A1, 1C1, 2C1,etc.)			N/A			
Quantity			Two (Combined Two Headlamp System)			
Frame	,				·	
						

Vehicle Line MERCURY TRACER

Model Year 1989½ | Issued 3/31/89 | Revised (e) _____

METRIC (U.S. Customary)

Body	Type

ALL MODELS

Body 1364		ALL MODELS		
Convenie	ence Equipment (standard, opti	onal, n.a.)		
Air condition auto, temp o	ning (manual, control)	Optional, Manual Temperature Control		
Clock (digite	n, analog)	Standard, Digital		
Compass/th		N/A		
<u>-</u> -	or, overhead)	Standard, Floor		
	lec. backlight	Standard, On-Off Indicator Lamp		
	Diagnostic monitor (integrated, individual)	N/A		
	Instrument cluster (list instruments)	N/A		
	Keyless entry	N/A		
Electronic	Tripminder (avg. spd., fuel)	N/A		
	Voice alert (list items)	N/A		
	Other			
Fuel door lo	ock (remote, key, electric)	Standard, Remote		
10, 000, 10	Auto head on/off delay, dimming	N/A		
	Cornering	N/A		
	Courtesy (map, reading)	Standard, Overhead Map & Door Mounted Courtesy		
	Door lock, ignition	Standard		
	Engine compartment	N/A		
	Fog	N/A		
ampa	Glove compartment			
	Tourk Cargo Area	Standard, (Mtd. In Hatch)		
•	Illuminated entry system (list lamps, activation)			
	Other	Standard, (Ashtray/Lighter)		
	Day/night (auto, man.)	Standard, Manual '		
	L.H. (remote, power, heated)	Standard, Power		
Mirrors	R.H. (convex, remote, power, heated)	Standard, Power		
	Visor vanity (RH/LH, illuminated)	Standard, RH Only (Non-Illuminated)		
Navigation s	system (describe)	N/A		
Parking brai	ke-auto release (warning light)	N/A		

Vehicle Line MERCURY TRACER

Model Year 1989½ Issued 3/31/89 Revised (•)

METRIC (U.S. Customary)

Body	Туре
,	

ALL MODELS

	Deck lid (release, pull down)		N/A
	Door locks (manual, automatic, describe system)		N/A
		2 · 4 · 6 way, etc.	N/A
		Rectining (R.H., L.H.)	N/A
ower	L	Memory (R.H., L.H., preset, recline)	N/A
quipment	Seats	Lumbar, hip, thigh, support	N/A
		Heated (R.H., L.H., other)	N/A
	Side windo)ws	N/A
	Vent windo	ws	N/A
	Rear winds	ows	N/A
			N/A
	Antenna' (lo	cation, whip, w/shield, power)	Standard, Left Side A-Pillar
	Stendard		AM/FM Stereo
ladio	Optional	AM, FM, stereo, tape compact disc, graphic equalizer, that deterrent, radio prep package, headphone jacka, etc.	
yatema			AM/FM Stereo w/Cassette
,	Speaker (number, location)		Standard, Two Front; Optional, Two Front & Two Rear
toof: ope	n air or fixed	(flip-up, sliding, "T")	N/A
,	ntrol device		Optional
Speed warning device (light, buzzer, etc.) Techometer (rpm) Telephone system (describe)			N/A
			Standard, Analog
			N/A
elephone	. 3,0,0,0,0,0		

Vehicle Line _	MERCUR	Y TRACER	
Model Year _	1989½	lasued 3/31/89	_ 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 vehicle 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. ,	2-DOOR HATCHBACK	4-DOOR HATCHBACK	4-DOOR WAGON
) Width				
Tread (front)	W101	1395 (54.9)		
Tread (rear)	W102	1422 (56.0)		
Vehicle width	W103	1655 (65.2)		
Body width at SgRP (front)	W117	1632 (64.3)	١	·
Vehicle width (front doors open)	W120	3775 (148.6)	3320 (130.7)	
Vehicle width (rear doors open)	W121	N/A	3190 (125.6)	
Tumble-home (deg.)	W122	23.2°		
Outside mirror width	W410	1825 (71.8)	1829 (72)	1845 (72.6)
Length		·		
Wheelbase	L101	2405 (94.7)		
Vehicle length	L103	4115 (162.0)		4311 (169.7)
Overhang (front)	L104	860 (33.8)		
Overhang (rear)	L105	850 (33.5)		1046 (41.2)
Upper structure length	L123	2657 (104.6)		2907 (114.4)
Rear wheel C/L "X" coordinate	L127	2405 (94.7)		
Height*				
Passenger distribution (front/rear)	PD1,2,3	2/2		
Trunk/cargo load		36.3 (80)		
Vehicle height	H101	1347 (53.0)		1365 (53.7)
Cowl point to ground	H114	904 (35.6)		
Deck point to ground	H138	892 (35.1)	<u> </u>	887 (34.9)
Rocker panel-front to ground	H112	176 (6.9)		· · · · · · · · · · · · · · · · · · ·
Rocker panel-rear to ground	H111	176 (6.9)	······································	
Windshield slope angle	H122	56.3°	·	
Backlight slope angle	H121	60.3°		33°
Ground Clearance*				_ <u>·</u>
Front bumper to ground	H102	239 (9.4)		
Rear bumper to ground	H104	273 (10.7)		313 (12.3)
Bumper to ground (front at curb mass (wt.))	H103	259 (10.2)		
Bumper to ground [rear at curb mass (wt.)]	H105	327 (12.9)		369 (14.5)
Angle of approach (degrees)	H108	18°		<u> </u>
Angle of departure (degrees)	H107	16°		14°
Ramp breakover angle (degrees)	H147	12.5°		
Axle differential to ground (front/rear)	H153	N/A	<u> </u>	
Min. running ground clearance	H158	130 (5.1)		
Location of min. run. grd. clear.		Powertrain Splash Shie	ld	

^{*}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.

MERCURY TRACER Vehicle Line lasued 3/31/89 1989% _ Revised (•) -

METRIC (U.S. Customary)
Vehicle Dimensions See Key Sheets for definitions

	Body Type		2-DOOR HATCHBACK	4-DOOR HATCHBACK	4-DOOR WAGON
Ø	Front Compartment	SAE ^l Ref. No.			
	SgRP front, "X" coordinate	L31	1310 (51.6)		
	Effective head room	H61	974 (38.3)		971 (38.2)
	Max. eff. leg room (accelerator)	L34	1054 (41.5)		
	SgRP to heel point	H30	245 (9.6)		<u></u>
	SgRP to heel point	L53	848 (33.4)		
	Back angle	L40	24°		
	Hip angle	L42	94°		
	Knee angle	L44	122°		
	Foot angle	L48	87°	·	
	Design H-point front travel	L17	200 (7.9)		
	Normal driving & riding seat track trvi.	L23	180 (7.1)		
	Shoulder room	W3	1317 (51.9)		
	Hip room	W5	1341 (52.8)		
	Upper body opening to ground	H50	1226 (48.3)		
	Steering wheel maximum diameter*	W9	380 (15.0)		·
	Steering wheel angle	H18	24.9°		
	Accel, heel pt. to steer, whi, ontr	L11	450 (17.7)		
	Accel, heel pt. to steer, whi, cntr	H17	629 (24.8)		
	Undepressed floor covering thickness	H67	25 (1.0)		
\emptyset	Rear Compartment				·
	SgRP point couple distance	L50	752 (29.6)		
	Effective head room	H63	940 (37.0)		969 (38.1)
	Min. effective leg room	L51	882 (34.7)		
	SgRP (second to heel)	H31	289 (11.4)		
	Knee clearance	L48	0		
	Shoulder room	W4	1317 (51.9)		
	Hip room	W6	1108 (43.6)	1086 (42.7)	
	Upper body opening to ground	H51	1240 (48.8)		<u> </u>
	Back angle	L41	24°		
	Hip angle	L43	84.5°		
	Knee angle	L45	86.8°		
	Foot angle	L47	127.1°		
					

Luggage Compartment

Depressed floor covering thickness

Usable luggage capacity [L (cu. ft.)]	V1	-	
Liftover height	H195	765 (30.1)	515 (20.3)

nterior Volumes (EPA Classification) 2-Door Hatchback 4-Door Hatchback Wagon						
Vehicle class	Compact	· · · · · · · · · · · · · · · · · · ·	Small			
Interior valume index (cu. ft.)**	102.1	101.7	117.3			
Trunk/cargo index (cu. ft.)	14.5		25.4			

H73

10 (0.4)

[&]quot;Includes passenger and trunk/cargo index - see General Section for definition.

MERCURY TRACER Vehicle Line . Model Year 1989% Issued 3/31/89 Revised (e)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

	ALL MODELS	
SAE Ref. No.	(NOT APPLICABLE)	
SD1		
L85		<u> </u>
W85		
W86		·
L86		
H86		·
H87		
L87		
L88		
L89		
L90		
L91		
C8		
L200	1780 (70.1)	
L201	1015 (40.0)	
L202	1700 (66.9)	
L203	935 (36.8)	
L204	1518 (59.8)	
L205	768 (30.2)	
W201	990 (39.0)	
-	1070 (42.1)	
W204	1230 (48.4)	
-	935 (38.8)	
H201	817 (32.2)	
H202	750 (29.5)	
H250	572 (22.5)	
		
		
! 		
+		
	2-DOOR & 4-DOOR HATCHBACK	
L208	1288 (50.7)	
L209	1547 (60.9)	
L210	517 (20.3)	
L211	808 (31.8)	
H197	439 (17.3)	
-	473 (18.6)	
V3	0.82 (28.9)	
V4	0	
 	0.41 (14.5)	
V11		
1 411	2-DOOR & 4-DOOR HATCHBACK	4-DOOR WAGON
	2-DOOR & 4-DOOR HATCHBACK	4-DOOR WAGON
VII.	2-DOOR & 4-DOOR HATCHBACK	4-DOOR WAGON
	2-DOOR & 4-DOOR HATCHBACK	4-DOOR WAGON
	Ref. No. SD1 L85 W85 W86 L86 H88 H87 L87 L88 L89 L90 L91 C8 L200 L201 L202 L203 L204 L205 W201 W203 W204 W205 H201 H202 H250 H201 H202 H250 H197 V2 V4 V10 L208 L209 L210 L211 H197 H198 V3	SAE Ref. (NOT APPLICABLE) SD1 L85 W85 W86 L88 H88 H88 H87 L89 L90 L91 C6 L200 1780 (70.1) L201 1015 (40.0) L202 1700 (86.9) L203 935 (38.8) L204 1518 (59.8) L205 768 (30.2) W201 990 (39.0) W203 1070 (42.1) W204 1230 (48.4) W205 935 (36.8) H201 817 (32.2) H202 750 (29.5) H197 355 (14.0) V2 1.83 (57.6) V4 0 V10 0.72 (25.4) L209 1547 (80.9) L210 817 (30.3) L211 808 (31.8) H197 439 (17.3) H198 473 (18.6) V3 0.82 (28.9)

^{*}EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications METRIC (U.S. Customary)

Vehicle Line .	MERCU	RY TRACER	
Model Year _	1989%	_ Issued3/31/89	Revised (•)

Marks	Define Coordinate Location Zero "X" Plane
-	
-	Zero "X" Plane
	Zero "X" Plane
	Zero X Flans
•	
	•
Zero "Y" Plane	Zero "Z" Plane
•	"Z" Plane is horizontal plane which contain the front and rear wheel center at design load weight
•	•
N/A	
N/A	

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

Vehicle Line	MERCU	RY TRACER		
Model Year	19891/2	_lasued _ 3/31/89	Revised (e)	

METRIC (U.S. Customary)

		Vehicle Mass (weight)							
		CURB MASS, kg. (lb.)*			% PASS. MASS DISTRIBUTION				·
			- T		Pass. In	Front	Pass. In Rear		ETWC**
Code	Model	Front	Rear	Total	Front	Rear	Front	Rear	Code
995/445	1.6L Eng.								
w/5-Speed Manual Tra	ans.				<u> </u>				
	DA (111/0	910	390	1000	45.3	54.7	14	86	M
995/445 2-Door Hatchback	DA/HVS	610 (1345)	(860)	(2205)	45.5	34.1	-14	- 55	····
2-Door Hatchback		(10-0)	(000)	(2200)	 				
995 / 445	HC/HVS	610	405	1015	45.3	54.7	14	86	М
4-Door Hatchback		(1345)	(895)	(2240)					
995 / 445	FF/HVS_	620	440	1060	45.3	54.7	14.3	85.7	N
4-Door Wagon		(1365)	(970)	(2335)					· · ·
0051440	1 Pl E								
995/440 w/Opt. 3-Speed Auto.	1.6L Eng.				+				
w/ Ohr. 3-Shaad Voto.	rights.				 -				
995/440	DA/HVS	630	390	1020	45.3	54.7	14	86	N
2-Door Hatchback		(1390)	(860)	(2250)					
									<u> </u>
995 / 440	HC/HVS	630	405	1035	45.3	54.7	14	86	N_
4-Door Hatchback		(1390)	(895)	(2285)					
					45.5	54.7	- 4.4		N
995/440	FF/HVS	640	440	1080	45.3	54.7	14	88	
4-Door Wagon		(1410)	(970)	(2380)	 				· · · · · · · · · · · · · · · · · · ·
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^{*}Reference — SAE J1100 Motor vehicle dimensions, curb weight definition.

SHIPPING MASS (weight) Calculation (Kg. (lbs.)
Shipping Mass (weight) = Curb Weight Less:
38 (84)

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

METRIC (U.S. Customary)

Vehicle Line	MERCUF	RY TRACER	
Model Year	1989%	lasued 3/31/89	_Revised (•)

		Optional Equipment Di		uipment [fferential Mass (weight)*	
		MASS, kg. (lb.)		Remarks		
Code	Equipment	Front	Rear	Total	Restrictions, Requirements	
ansaxle:	3-Spd. Auto (A3)					
440	2 & 4 Door Hatchbacks	12	8	20		
		(26)	(18)	(44)		
440	4-Door Wagon	32	5	37		
440	4-000: Wagon	(71)	(11)	(82)		
	Power Steering	10	0	10	Standard w/4-Dr. & Wagon	
52H	Power Steering	(22)	(0)	(22)		
			0	20	Requires Opt. Power Steering	
572	Air Conditioning	(44)	(0)	(44)	Heddines Opt. 1 State Classification	
	w/Manual Temp. Cont.	(44)	(0)	\ <i>\</i>		
58H	AM/FM Stereo w/Cassette	5.4	0	5.4		
		(12)	(0)	(12)		
					 	
						
						
						
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^{*}Also see Engine - General Section for dressed engine mass (weight).