1999

North American Product Centers

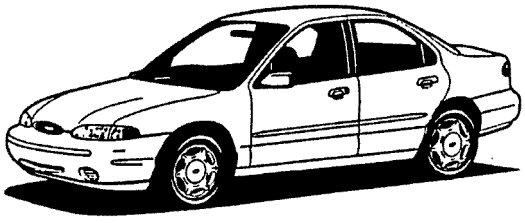
Vehicle Lineup

FORD ESCORT

Model / Series	Bodystyle	Add'l Exterior Nameplates	Powertrains: Engines	Powertrains: Transmissions / Transaxles
LX SE ZX2	4-Dr. Sedan 4-Dr. Station Wagon 2-Dr. Coupe	Sport	2.0L 2V, I-4, SPI 2.0L 4V, I-4, ZETEC	M5 F4E Type F

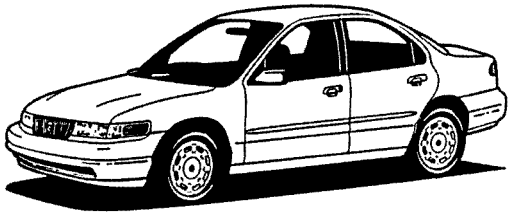
MERCURY TRACER

Model / Series	Bodystyle	Add'l Exterior Nameplates	Powertrains: Engines	Powertrains: Transmissions / Transaxles
GS LS	4-Dr. Sedan 4-Dr. Station Wagon	Trio Sport	2.0L 2V, I-4 SPI	M5 F4E Type F



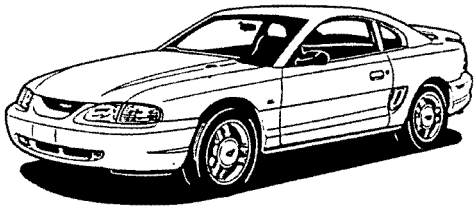
FORD CONTOUR

Model / Series	Bodystyle	Add'l Exterior Nameplates	Powertrains: Engines	Powertrains: Transmissions / Transaxles
Base LX SE SVT	4-Dr. Sedan	Sport	2.0L 4V, I-4, ZETEC 2.5L 4V, V-6, DURATEC 2.5L 4V, V-6 DURATEC SVT	MTX-75 CD4E



MERCURY MYSTIQUE

Model / Series	Bodystyle	Add'l Exterior Nameplates	Powertrains: Engines	Powertrains: Transmissions / Transaxles
Base GS LS	4-Dr. Sedan	Spree Sport	2.0L 4V, I-4 ZETEC 2.5L 4V, V-6 DURATEC	MTX-75 CD4E

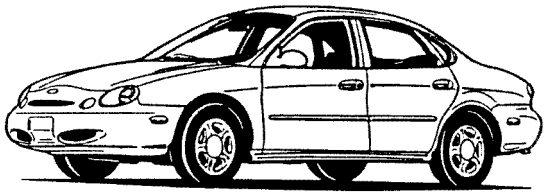


FORD MUSTANG

Model / Series	Bodystyle	Add'l Exterior Nameplates	Powertrains: Engines	Powertrains: Transmissions / Transaxles
Base GT Cobra	2-Dr. Coupe 2-Dr. Convertible	SVT	3.8L 2V, V-6 EFI 4.6L 2V,V-8 SOHC SEFI 4.6L 4V, V-8 Intech	T45 T50D 4R70W

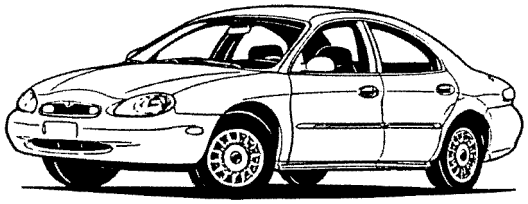
PASSENGER CARS

Model / Series	Bodystyle	Add'l Exterior Nameplates	Powertrains	
			Engines	Transmissions / Transaxles
LX SE SHO	4-Dr. Sedan 4-Dr. Station Wagon	FFV	3.0L 2V, V-6 VULCAN 3.0L 4V, V-6 DURATEC 3.0L 2V, V-6 VULCAN FFV 3.4L 4V, V8 SHO	AX4S AX4N



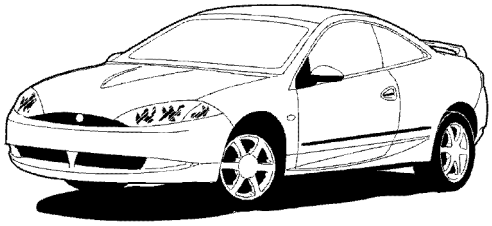
FORD TAURUS

Model / Series	Bodystyle	Add'l Exterior Nameplates	Powertrains	
			Engines	Transmissions / Transaxles
GS LS	4-Dr. Sedan 4-Dr. Station Wagon		3.0L 4V, V-6 DURATEC 3.0L 2V, V-6 VULCAN	AX4S AX4N



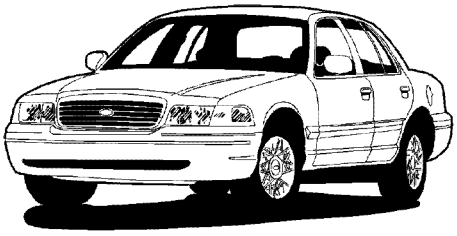
MERCURY SABLE

Model / Series	Bodystyle	Add'l Exterior Nameplates	Powertrains	
			Engines	Transmissions / Transaxles
Base V6	2-Dr. Coupe	V6	2.0L 4V, I-4 ZETEC 2.5L 4V, V-6 DURATEC	MTX-75 CD4E



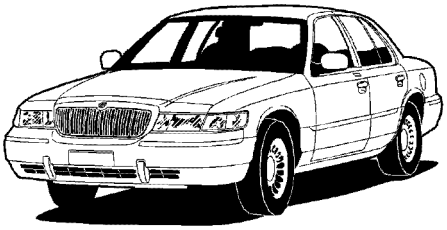
MERCURY COUGAR

Model / Series	Bodystyle	Add'l Exterior Nameplates	Powertrains	
			Engines	Transmissions / Transaxles
Police Interceptor Fleet Standard LX	4-Dr. Sedan	Road & Leaf	4.6L 2V, V8 SOHC SEFI 4.6L 2V, V8 CNG	4R70W

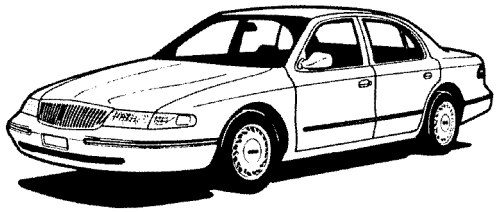


FORD CROWN VICTORIA

Model / Series	Bodystyle	Add'l Exterior Nameplates	Powertrains	
			Engines	Transmissions / Transaxles
GS LS	4-Dr. Sedan	Limited Edition	4.6L 2V, V8 SOHC SEFI	4R70W

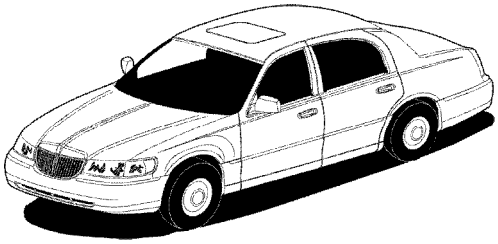


MERCURY GRAND MARQUIS



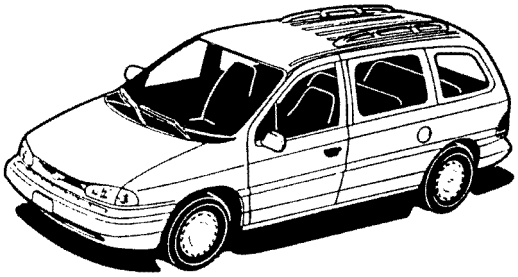
LINCOLN CONTINENTAL

			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior Nameplates**	**Engines**	**Transmissions / Transaxles**
Base	4-Dr. Sedan		4.6L 4V, V8 Intech	AX4N



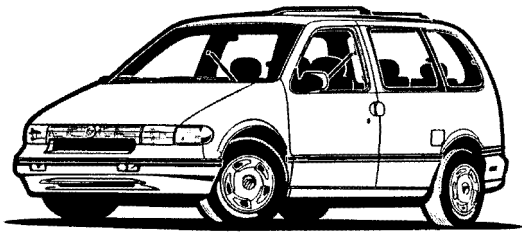
LINCOLN TOWN CAR

			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior Nameplates**	**Engines**	**Transmissions / Transaxles**
Executive Signature Cartier	4-Dr. Sedan	Executive Signature Cartier	4.6L 2V, V8 SOHC SEFI	4R70W



FORD WINDSTAR

			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior Nameplates**	**Engines**	**Transmissions / Transaxles**
Base LX SE SEL	Wagon Cargo Van	Traction Control Limited Northwoods (LX) 3.0	3.0L 2V, V-6 VULCAN 3.8L 2V, V-6 SPI	AX4S

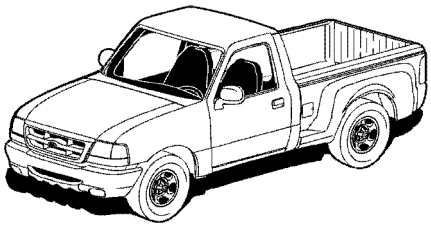


MERCURY VILLAGER

			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior Nameplates**	**Engines**	**Transmissions / Transaxles**
Base		Estate Sport Base	3.3L 2V, V-6 EFI	4F20E

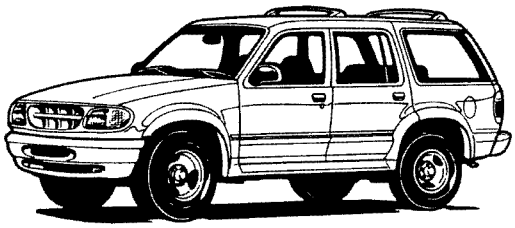
LIGHT TRUCKS

			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior Nameplates**	**Engines**	**Transmissions / Transaxles**
XL XLT	Regular/SuperCab 4x2 / 4x4	4x4 4x4 Off Road EV (Road & Leaf)	2.5L 2V, I-4 OHC 3.0L 2V, V-6 VULCAN - Gas 4.0L 2V, V-6 3.0L 2V, V-6 VULCAN FFV	M5OD-R1 4R44E 5R55E



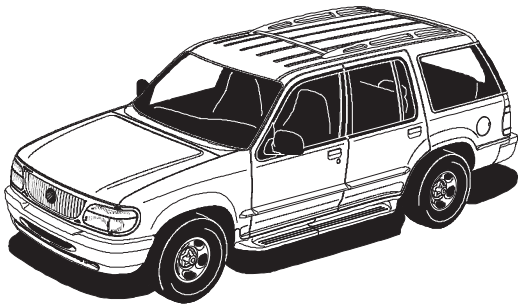
FORD RANGER

			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior Nameplates**	**Engines**	**Transmissions / Transaxles**
XL XLT XLS	2-Dr./4 Dr. 4x2/4x4/AWD	Eddie Bauer, Limited, V8, Control Trac 4WD	4.0L 2V, V-6 SOHC 4.0L 2V, V-6 OHV 5.0L 2V, V-8 Thunderbolt	M5OD-R1 5R55E 4R70W

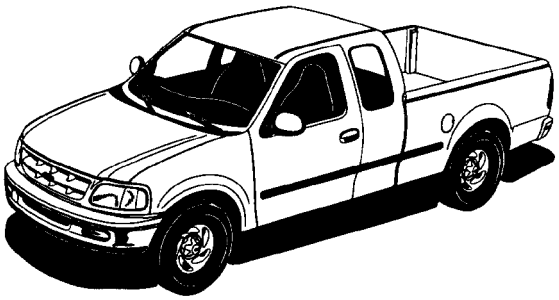


FORD EXPLORER

			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior Nameplates**	**Engines**	**Transmissions / Transaxles.85**
Base	4-Dr. 4x2, 4x4, AWD		4.0L 2V, V-6 SOHC 5.0L 2V, V8 Thunderbolt	4R70W 5R55E

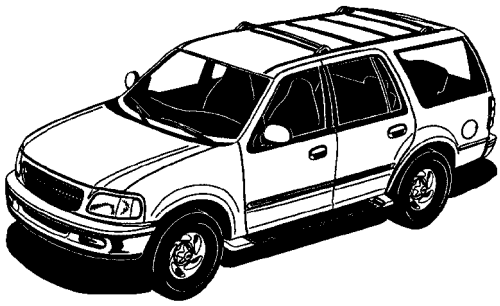


MERCURY MOUNTAINEER



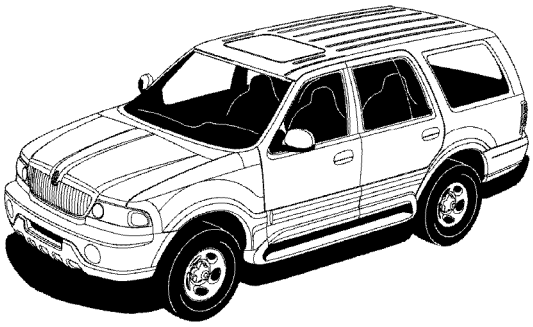
FORD F-SERIES

			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior Nameplates**	**Engines**	**Transmissions / Transaxles**
Ford F-Series (F150 & F250 Under 8500 GVW)				
F-150 F-250 LD	Regular/SuperCab Flareside/Styleside 4x2/4x4	XL, XLT, STX, 4x4 Off Road Triton V8 CNG Natural Gas Eddie Bauer	4.2L 2V, V6 SPI 4.6L 2V, V8 Triton 5.4L 2V, V8 Triton 5.4L 2V, V8 Triton NGV 7.3L 2V, V8 Power Stroke	M5OD-R2 4R100 4R70W M5HD-C M5HD-W
Ford F-Series (F-Super Duty 250/350/450, Over 8500 GVW)				
F-250 HD F-350 F450 (Super Duty)	SuperCab 4x2/4x4 Stripped Chassis 4x2 Chassis Cab 4x2/4x4 Crew Cab		5.4L 6.8L 7.3L 2V, V8 Power Stroke	4R100 M5HD



FORD EXPEDITION

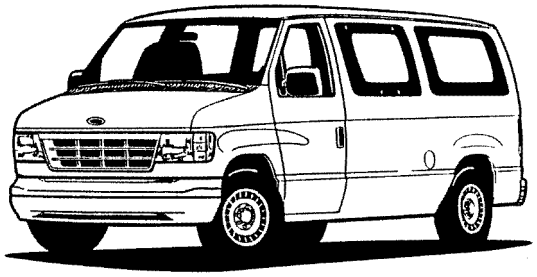
			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior Nameplates**	**Engines**	**Transmissions / Transaxles**
XLT	4-Dr. (4x2/4x4)	Sport, Eddie Bauer, Limited, V8, Control Trac 4WD	4.6L 2V, V8 Triton 5.4L 2V, V8 Triton	M5OD-R2 4R100 4R70W



LINCOLN NAVIGATOR

			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior Nameplates**	**Engines**	**Transmissions / Transaxles**
Base	4-Dr. 4x2/4x4		5.4L 2V, V8 Triton 5.4L 4V, V8 Triton	4R100

			Powertrains	
Model / Series	**Bodystyle**	**Add'l Exterior-Nameplates**	**Engines**	**Transmissions / Transaxles**
FORD ECONOLINE CLUB WAGON				
XL XLT Chateau	Regular Club Wagon HD Club Wagon		4.2L 2V, V-6 SPI 4.6L 2V, V8 Triton 5.4L 2V, V8 Triton 6.8L 2V, V10 Triton 7.3L 2V, V8 Power Stroke Diesel	4R100 4R70W
FORD ECONOLINE SUPER VAN				
Standard XL RV	Van Super Van RV Cutaway Commercial Cutaway, Basic, Chassis		4.2L 2V, V-6 SPI 4.6L 2V, V8 Triton 5.4L 2V, V8 Triton 5.4L 2V, V8 Triton NGV 6.8L 2V, V10 Triton 7.3L 2V, V8 Power Stroke Diesel	4R100 4R70W



FORD ECONOLINE

1999

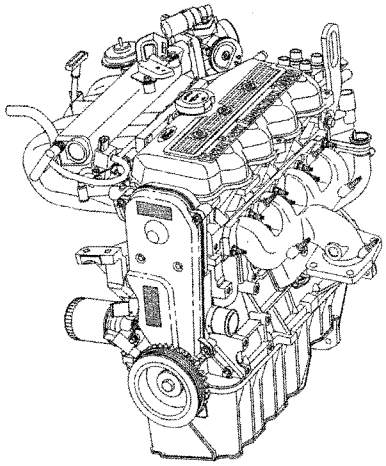
GENERAL SPECIFICATIONS

FOR

PASSENGER CARS / LIGHT TRUCKS

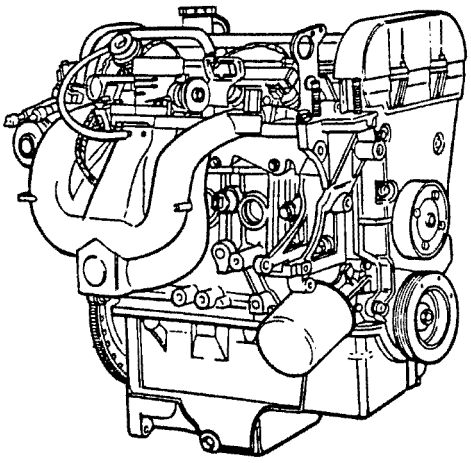
Engine Lineup

2.0L 2V, I-4 S.P.I. Engine



Manufacturer/Assy. Plant	Ford Motor Company Dearborn, Michigan
Engine Type	4-Cylinder; In-Line, Single Overhead Cam
Block	Cast Iron
Head	Aluminum
Horsepower (@ rpm)	110 @ 5000
Torque (ft. lb. @ rpm)	125 @ 3750
Displacement	2.0 liters (121 cu. in.)
Bore and Stroke (inches)	3.3 x 3.5
Compression Ratio	9.2:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	5
Valve Lifters	Hydraulic with Roller Tappets
Valves per Cylinder	2
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Catalytic Converter
Availability	Escort/Tracer Sedan/Wagon

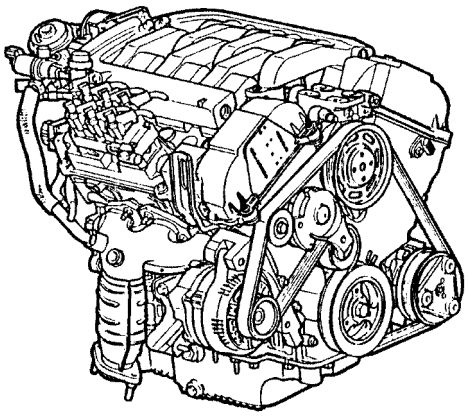
2.0L 4V, I-4 "ZETEC" Engine



Manufacturer/Assy. Plant	Ford Motor Company Chihuahua, Mexico
Engine Type	4-Cylinder; In-Line, Dual Overhead Cam
Block	Cast Iron
Head	Aluminum
Horsepower (@ rpm)	
Contour/Mystique	125 @ 5500
Escort ZX2	130 @ 5750
Torque (ft. lb. @ rpm)	
Contour/Mystique	130 @ 4000
Escort ZX2	127 @ 4250
Displacement	2.0 liters (121 cu. in.)
Bore and Stroke (inches)	3.3 x 3.5
Compression Ratio	9.6:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	5
Valve Lifters	Mechanical
Valves per Cylinder	4
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Dual Catalyst System
Availability	Contour, Mystique, Escort ZX2

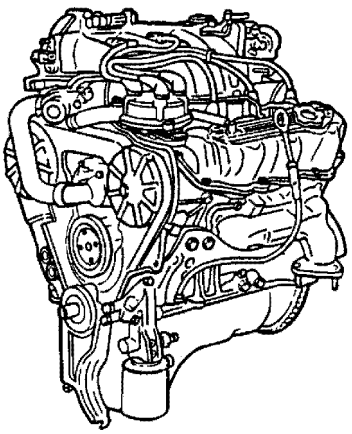
2.5L 4V, V-6 "DURATEC" (SVT) Engine

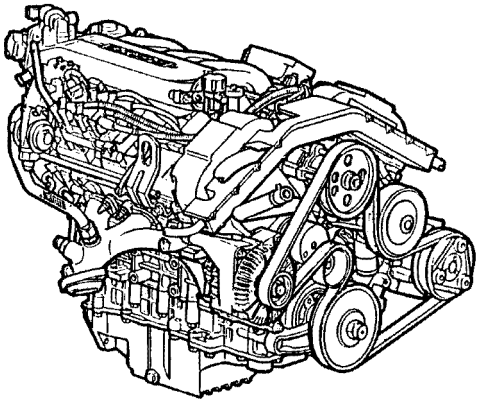
Manufacturer/Assy. Plant	Ford Motor Company Brookpark, Ohio (Cleveland Plant #2)
Engine Type	6-Cylinder; 60°V, Dual Overhead Cam
Block	Aluminum
Head	Aluminum
Horsepower (@ rpm)	Contour/Mystique 170@6250 (Contour SVT 195@6625)
Torque (ft. lb. @ rpm)	Contour/Mystique 165@4250 (Contour SVT 165@5625)
Displacement	2.5 liters (155 cu. in.)
Bore and Stroke (inches)	3.25 x 3.1
Compression Ratio	Contour/Mystique 9.7:1 (Contour SVT 10:1)
Engine Management	EEC-V Powertrain Control Module
Main Bearings	4
Valve Lifters	Hydraulic Lash Adjuster with Roller Follower
Valves per Cylinder	4
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded (SVT – Premium Unleaded)
Exhaust	Quasi-Dual Catalyst System
Availability	Contour, Mystique, Cougar (Contour SVT)



3.3L 2V, V-6 Engine

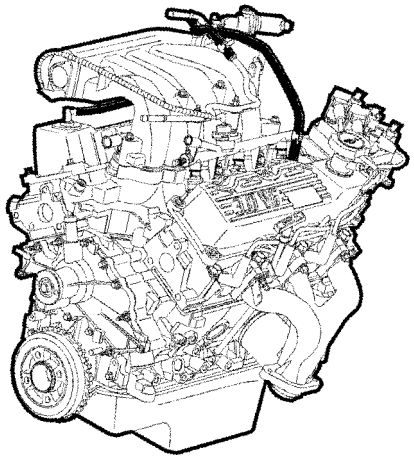
Manufacturer/Assy. Plant	Nissan Japan
Engine Type	6-Cylinder; 60°V, Overhead Valve
Block	Cast Iron
Head	Aluminum
Horsepower (@ rpm)	170 @ 4800
Torque (ft. lb. @ rpm)	200 @ 2800
Displacement	3.3 liters (180 cu. in.)
Bore and Stroke (mm)	91.5 x 83
Compression Ratio	8.9:1
Engine Management	Electronic Engine Controls
Main Bearings	4
Valve Lifters	Hydraulic
Valves per Cylinder	2
Fuel Induction	Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Catalyst System
Availability	Villager





3.0L 4V, V-6 "DURATEC" Engine

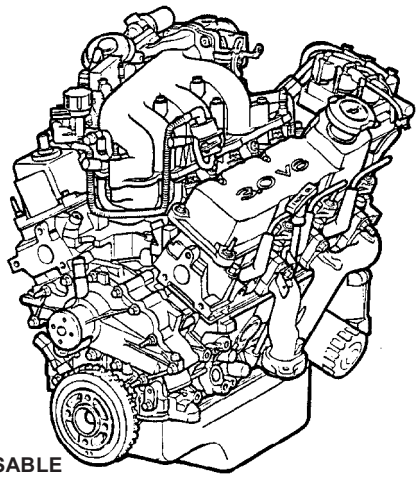
Manufacturer/Assy. Plant	Ford Motor Company Brookpark, Ohio (Cleveland Engine Plant #2)
Engine Type	6-Cylinder; 60°V, Dual Overhead Cam
Block	Aluminum
Head	Aluminum
Horsepower (@ rpm)	
Taurus	185 @ 5750
Sable	200 @ 5750
Torque (ft. lb. @ rpm)	
Taurus	190 @ 4500
Sable	200 @ 4500
Displacement	3.0 liters (182 cu. in.)
Bore and Stroke (mm)	89.0 x 79.5
Compression Ratio	10:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	4
Fuel Induction	Sequential Multiport Fuel Injection
Valve Lifters	Hydraulic Lash Adjuster with Roller Follower
Valves per Cylinder	4
Exhaust	
Taurus	Single
Sable	Quasi-Dual Catalyst System
Fuel Recommendation	Regular Unleaded
Availability	Taurus Sable



WINDSTAR

3.0L 2V, V-6 "VULCAN" Engine

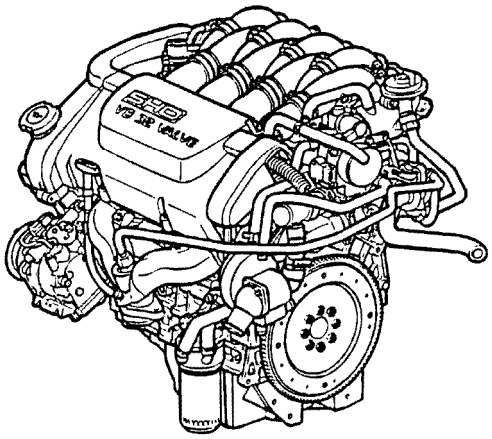
Manufacturer/Assy. Plant	Ford Motor Company Lima, Ohio
Engine Type	6-Cylinder; 60°V, Overhead Valve
Block	Cast Iron
Head	Cast Iron
Horsepower (@ rpm)	
Taurus/Sable	145 @ 5250
Taurus FFV-Gas	145 @ 5000
Taurus FFV-E85	150 @ 5000
Windstar	150 @ 5000
Torque (ft. lb. @ rpm)	
Taurus/Sable	170 @ 3250
urus FFV-Gas	170 @ 3250
urus FFV-E85	175 @ 3250
indstar	186 @ 3750
splacement	3.0 liters (182 cu. in.)
re and Stroke (inches)	3.5 x 3.1
mpression Ratio	9.17:1 (Taurus/Sable) 9.44:1 (Taurus FFV) 9.3:1 (Windstar)
gine Management	EEC-V Powertrain Control Module
in Bearings	4
lve Lifters	Hydraulic
lves per Cylinder	2
el Induction	Sequential Multiport Fuel Injection
el Recommendation	Regular Unleaded (GAS/E85/FFV)
haust	Single, with Dual Catalytic Converters
ailability	Taurus Sable Windstar



TAURUS/SABLE

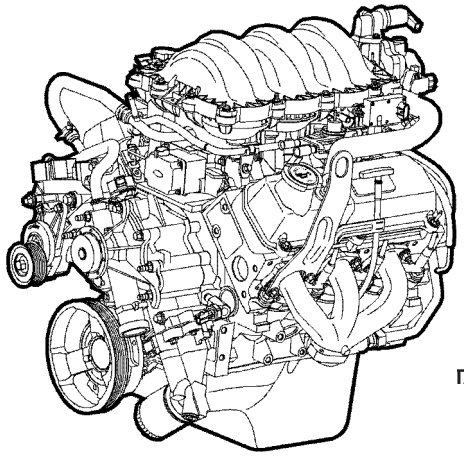
3.4L 4V, V-8 "SHO" Engine

Manufacturer/Assy. Plant	Yamaha Fukuroi, Japan
Engine Type	8-Cylinder; 60°V, Dual Overhead Cam
Block	Aluminum
Head	Aluminum
Horsepower (@ rpm)	235 @ 6100
Torque (ft. lb. @ rpm)	230 @ 4800
Displacement	3.4 liters (3392cc)
Bore and Stroke (mm)	82.4 x 79.5mm
Compression Ratio	10:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	5
Valve Lifters	Direct-Acting Bucket-Type Tappets
Valves per Cylinder	4
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Premium Unleaded (91 Octane)
Exhaust	Dual, with Catalyst System, "Y" Intermediate and Dual Mufflers
Ignition System	SFI/EI Coil on Plug
Availability	Taurus SHO

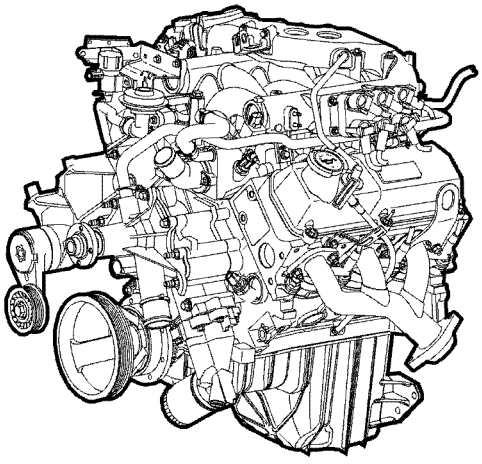


3.8L 2V, V-6 Engine

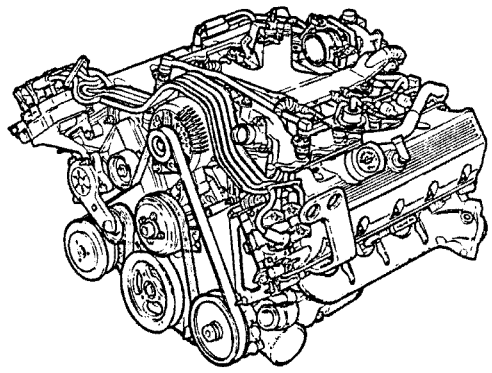
Manufacturer/Assy. Plant	Ford Motor Company Windsor, Ontario, Canada (Essex Plant)
Engine Type	6-Cylinder; 90°V, Overhead Valve
Block	Cast Iron
Head	Aluminum
Horsepower (@ rpm)	
Mustang	190 @ 5250
Windstar (SPI)	200 @ 4900
Torque (ft. lb. @ rpm)	
Mustang	220 @ 2750
Windstar (SPI)	240 @ 3600
Displacement	3.8 liters (232 cu. in.)
Bore and Stroke (inches)	3.8 x 3.4
Compression Ratio	9.3:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	4
Valve Lifters	Hydraulic Roller Tappets
Valves per Cylinder	2
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Catalytic Converter
Availability	Mustang, Windstar



ГAR (SPI)

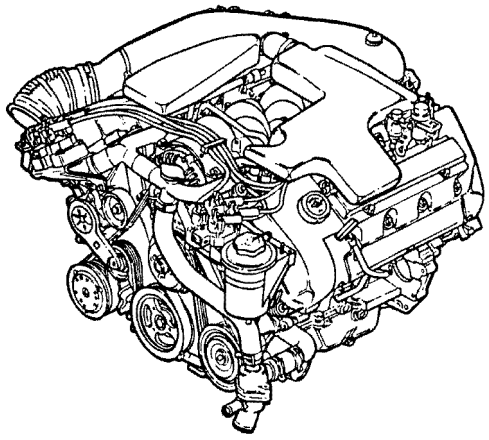


4.6L 2V, V-8 Engine



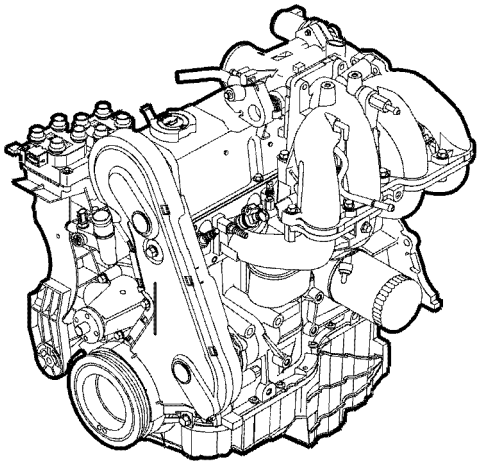
Manufacturer/Assy. Plant	Ford Motor Company	
Engine Type	8-Cylinder; 90°V, Single Overhead Cam	
Block	Cast Iron	
Head	Aluminum	
Horsepower (@ rpm)		**Torque (ft. lb. @ rpm)**
Single exhaust 4.6-2V V8		
Crown Victoria/Grand Marquis	200 @ 4250	275 @ 3000
Town Car	205 @ 4250	280 @ 3000
Dual exhaust 4.6-2V V8		
Crown Victoria/Grand Marquis	215 @ 4500	285 @ 3000
Mustang	260 @ 5250	302 @ 4000
Town Car	220 @ 4500	290 @ 3500
Quasi-Dual 4.6-2V V8		
Crown Victoria NGV	175 @ 4500	235 @ 2000
Displacement	4.6 liters (281 cu. in.)	
Bore and Stroke (inches)	3.6 x 3.6	
Compression Ratio		
Mustang	9.0:1	
Crown Victoria/Grand Marquis		10.0:1
Engine Management	EEC-V Powertrain Control Module	
Main Bearings	5	
Valve Lifters	Hydraulic Lash Adjuster with Roller Follower	
Valves per Cylinder	2	
Fuel Induction	Sequential Multiport Fuel Injection	
Fuel Recommendation	Regular Unleaded	
Exhaust	Single or Dual, with Catalyst System	
Availability	Lincoln Town Car Crown Victoria/Grand Marquis Mustang GT	

4.6L 4V, V-8 "Intech" Engine



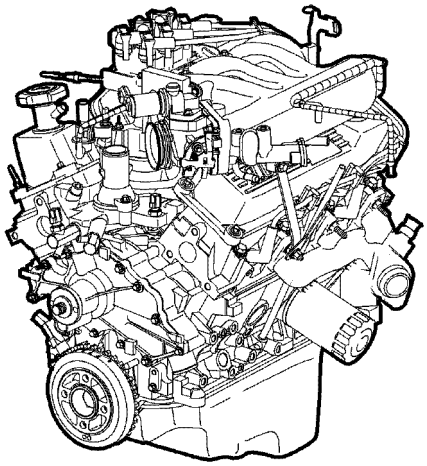
Manufacturer/Assy. Plant	Ford Motor Company Romeo, Michigan
Engine Type	8-Cylinder; 90°V, Dual Overhead Cam
Block	Aluminum
Head	Aluminum
Horsepower (@ rpm)	
Continental	275 @ 5750
Mustang Cobra	316 @ 6000
Torque (ft. lb. @ rpm)	
Continental	275 @ 4750
Mustang	316 @ 4750
Displacement	4.6 liters (281 cu. in.)
Bore and Stroke (inches)	3.6 x 3.6
Compression Ratio	9.8:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	5
Valve Lifters	Hydraulic Lash Adjuster with Roller Follower
Valves per Cylinder	4
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Premium Unleaded (91 Octane)
Exhaust	Dual, with Catalyst System
Availability	Continental Mustang (Cobra)

2.5L 2V, I-4 Engine



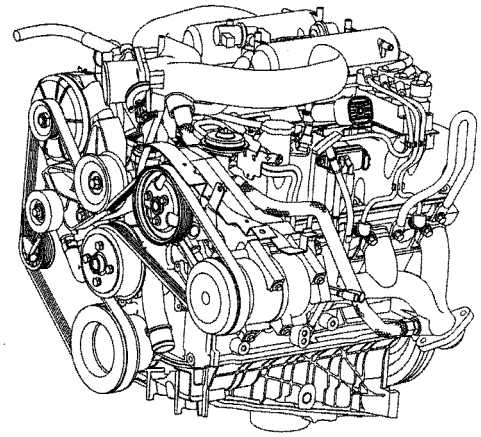
Manufacturer/Assy. Plant	Ford Motor Company Lima, Ohio
Engine Type	4-Cylinder; In-Line, Single Overhead Cam, Twin Plug Head
Block	Cast Iron
Head	Cast Iron
Horsepower (@ rpm)	119 @ 5000
Torque (ft. lb. @ rpm)	146 @ 3000
Displacement	2.5 liters (152 cu. in.)
Bore and Stroke (inches)	3.8 x 3.4
Compression Ratio	9.4:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	5
Valve Lifters	Hydraulic
Valves per Cylinder	2
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Catalyst System
Availability	Ranger Regular/SuperCab (4x2)

3.0L 2V, V-6 "VULCAN" Engine



Manufacturer/Assy. Plant	Ford Motor Company Lima, Ohio
Engine Type	6-Cylinder; 60°V, Overhead Valve
Block	Cast Iron
Head	Cast Iron
Horsepower (@ rpm)	
Ranger (E85)	152 @ 4750
Ranger (FFV)	143 @ 4750
Torque (ft. lb. @ rpm)	
Ranger (E85)	192 @ 3750
Ranger (FFV)	180 @ 3750
Displacement	3.0 liters (182 cu. in.)
Bore and Stroke (inches)	3.5 x 3.1
Compression Ratio	9.3:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	4
Valve Lifters	Hydraulic Roller Tappets
Valves per Cylinder	2
Fuel Induction	Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded/E85
Exhaust	Single, with Catalyst System
Availability	Ranger Splash (4x2, 4x4) Ranger Regular/SuperCab (4x2, 4x4)

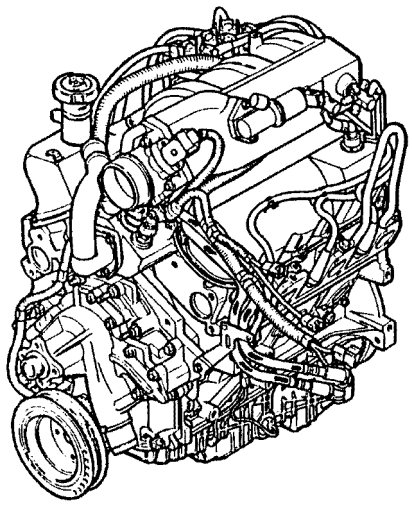
4.0L 2V, V-6 SOHC Engine



Manufacturer/Assy. Plant	Ford Motor Company Cologne, Germany
Engine Type	6-Cylinder; 60°V, Overhead Cam
Block	Cast Iron
Head	Aluminum
Horsepower (@ rpm)	
Explorer Automatic Trans.	210 @ 5250
Torque (ft. lb. @ rpm)	
Explorer Automatic Trans.	240 @ 3250
Displacement	4.0 liters (245 cu. in.)
Bore and Stroke (inches)	3.9 x 3.3
Compression Ratio	9.7:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	4
Valve Lifters	Hydraulic Lash Adjustor with Roller Follower
Valves per Cylinder	2
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Catalyst System
Availability	Explorer, Mountaineer

Illustration applies to LHD applications only.

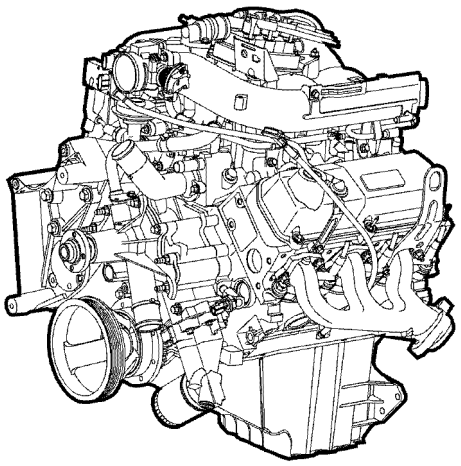
4.0L 2V, V-6 Engine



Manufacturer/Assy. Plant	Ford Motor Company Cologne, Germany
Engine Type	6-Cylinder; 60°V, Overhead Valve
Block	Cast Iron
Head	Cast Iron
Horsepower (@ rpm)	
Ranger	160 @ 4200
Explorer	160 @ 4200
Torque (ft. lb. @ rpm)	
Ranger	220 @ 3000
Explorer	225 @ 2750
Displacement	4.0 liters (245 cu. in.)
Bore and Stroke (inches)	3.9 x 3.3
Compression Ratio	9.0:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	4
Valve Lifters	Hydraulic Roller Tappets
Valves per Cylinder	2
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Catalyst System
Availability	Ranger/Explorer (4x2, 4x4)

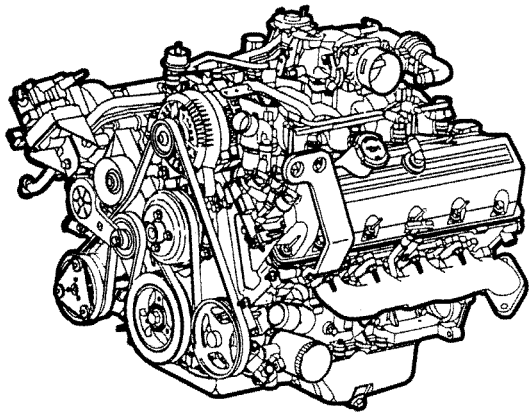
4.2L 2V, V-6 Engine

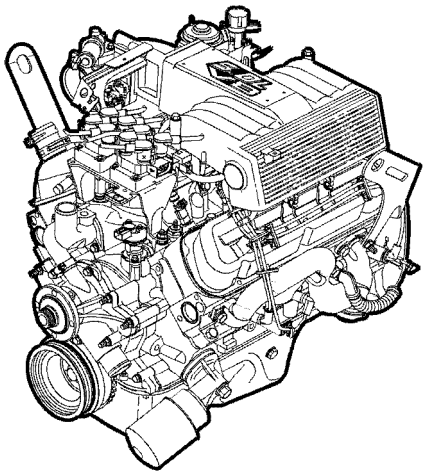
Manufacturer/Assy. Plant	Ford Motor Company Windsor, Ontario. Canada (Essex Plant)
Engine Type	6-Cylinder SPI; 90°V, Overhead Valve
Block	Cast Iron
Head	Aluminum
Horsepower (@ rpm)	
F150	205 @ 4750
E150	195 @ 4750
Torque (ft. lb. @ rpm)	
F150	250 @ 3000
E150	250 @ 3000
Displacement	4.2 liters (256 cu. in.)
Bore and Stroke (inches)	3.8 x 3.74
Compression Ratio	9.3:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings:	4
Valve Lifters	Hydraulic Roller Tappets
Valves per Cylinder	2
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Catalyst System
Availability	F-150 Econoline 150



4.6L 2V, V-8 “Triton” Engine

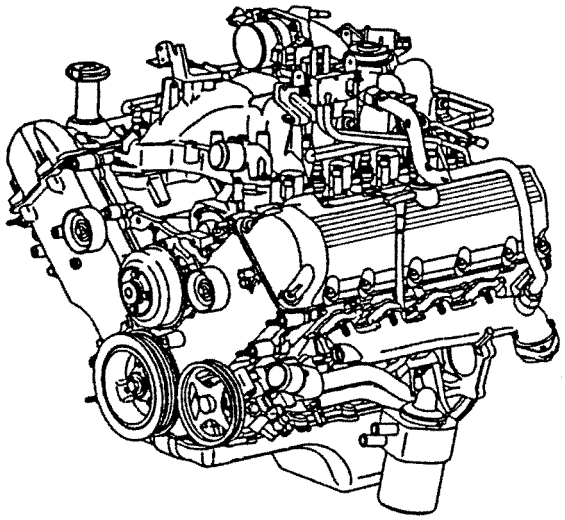
Manufacturer/Assy. Plant	Ford Motor Company Romeo, Michigan Windsor, Ontario
Engine Type	8-Cylinder; 90°V, Overhead Cam
Block	Cast Iron
Head	Aluminum
Horsepower (@ rpm)	
F150/250	220 @ 4500
Econoline	215 @ 4450
Expedition	240 @ 4750
Torque (ft. lb. @ rpm)	
F150/250	290 @ 3250
Econoline	290 @ 3250
Expedition	293 @ 3500
Displacement	4.6 liters (281 cu. in.)
Bore and Stroke (inches)	3.6 x 3.6
Compression Ratio	9.0:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	5
Valve Lifters	Hydraulic Lash Adjuster with Roller Follower
Valves per Cylinder	2
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Catalyst System
Availability	F-150/250 (under 8500 GVW only) Econoline Expedition





5.0L 2V, V-8 “Thunderbolt” Engine

Manufacturer/Assy. Plant	Ford Motor Company Brookpark, Ohio (Cleveland Engine Plant #1)
Engine Type	90° V8, Overhead Valve
Block	Cast Iron
Head	Cast Iron
Peak Horsepower (@ rpm)	215 @ 4200
Peak Torque (ft. lb. @ rpm)	288 @ 3300
Displacement	5.0 liters (302 cu. in.)
Bore and Stroke (inches)	4.0 x 3.0
Compression Ratio	9.0:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	5
Valve Lifters	Hydraulic Roller Tappets
Valves per Cylinder	2
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Dual Catalyst System
Availability	Explorer 4x2 — AWD Mountaineer AWD

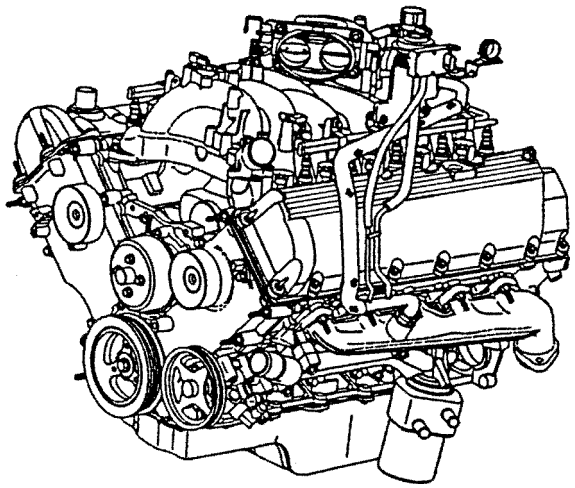


5.4L 2V, V-8 “Triton” Engine

Manufacturer/Assy. Plant	Ford Motor Company Windsor, Ontario
Engine Type	8-Cylinder; 90°V, Single Overhead Cam
Block	Cast Iron
Head	Aluminum
Horsepower (@ rpm)	
5.4L-2V Expedition	260 @ 4500
5.4L-2V F-Series	260 @ 4500
5.4L-2V Econoline	235 @ 4250
5.4L-2V Econoline NGV	200 @ 4500
5.4L-4V Navigator	300 @ 5000
Torque (ft. lb. @ rpm)	
5.4L-2V Expedition	345 @ 2300
5.4L-2V F-Series	345 @ 2300
5.4L-2V Econoline	335 @ 3000
5.4L-2V Econoline NGV	290 @ 2250
5.4L-4V Navigator	355 @ 2750
Displacement	5.4 (330 cu. in.)
Bore and Stroke (inches)	90.2 mm x 105.8 mm
Compression Ratio	9.0:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	5
Valve Lifters	Hydraulic Lash Adjusters with Roller Followers
Valves per Cylinder	2
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Catalyst System
Availability	F-Series 150/250 (under 8500 GVW only) Expedition Econoline 150/250/350 E-350 Chassis/RV/Cutaway Navigator

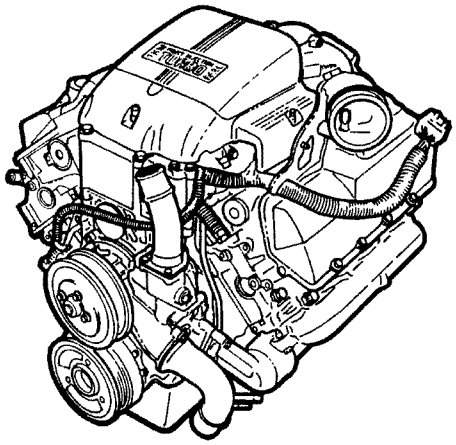
6.8L 2V, V-10 "Triton" Engine

Manufacturer/Assy. Plant	Ford Motor Company Windsor, Ontario
Engine Type	10-Cylinder; 90°V, Single Overhead Cam
Block	Cast Iron
Head	Aluminum
Horsepower (@ rpm)	
6.8L-2V F250/350/450	275 @ 4250
6.8L-2V Econoline	265 @ 4250
Torque (ft. lb. @ rpm)	
6.8L-2V F250/350/450	410 @ 2650
6.8L-2V Econoline	410 @ 2750
Displacement	6.8 (415 cu. in.)
Bore and Stroke (inches)	90.2 mm x 105.8 mm
Compression Ratio	9.0:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	6
Valve Lifters	Hydraulic Lash Adjusters with Roller Followers
Valves per Cylinder	2
Fuel Induction	Sequential Multiport Fuel Injection
Fuel Recommendation	Regular Unleaded
Exhaust	Single, with Catalyst System
Availability	Econoline 250/350 E-350 Chassis/RV/Cutaway 1999 Super Duty F-Series 250HD/350/450/550 Motorhome



7.3L 2V, V-8 "Power Stroke" Diesel Engine

Manufacturer/Assy. Plant	Navistar Indianapolis, Indiana
Engine Type	8-Cylinder; 90°V, Overhead Valve, Turbocharged
Block	Cast Iron
Head	Cast Iron
Horsepower (@ rpm)	235 @ 2700
Torque (ft. lb. @ rpm)	500 @ 1600
Displacement	7.3 liters (444 cu. in.)
Bore and Stroke (inches)	4.1 x 4.2
Compression Ratio	17.0:1
Engine Management	EEC-V Powertrain Control Module
Main Bearings	5
Valve Lifters	Hydraulic
Valves per Cylinder	2
Fuel Induction	Electronically Activated Direct Injection
Fuel Recommendation	No. 2 Diesel Fuel or Winterized No. 2
Exhaust	Single Exhaust System
Availability	F-Series 250/350/450/550 (over 8500 GVW) Cutaway Econoline 250/350 Econoline Super Duty



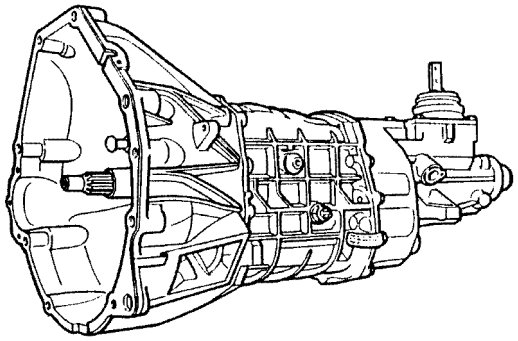
1999

GENERAL SPECIFICATIONS

FOR

PASSENGER CARS / LIGHT TRUCKS

Transmission and Transaxle Lineup

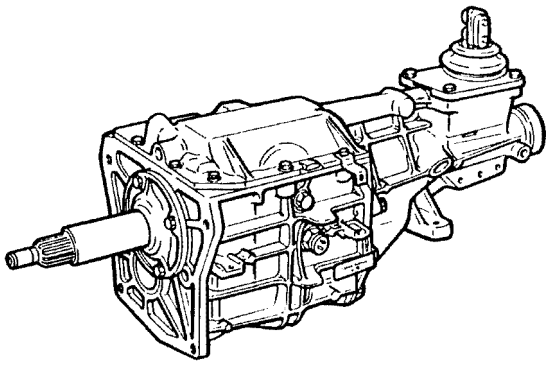


T45 Manual Transmission

Manufacturer/Assy. Plant	Tremec Queretaro, Mexico
Transmission Type	5-Speed Manual Overdrive Transmission

Gear Ratios	**1st**	**2nd**	**3rd**	**4th**	**5th**	**Rev.**
Mustang GT	3.37	1.99	1.33	1.00	0.67	3.22
Mustang COBRA	3.37	1.99	1.33	1.00	0.67	3.22

Fluid Refill Capacity	3.2 Liters
Fluid Recommendation	MERCON®
Availability	Mustang GT, Cobra



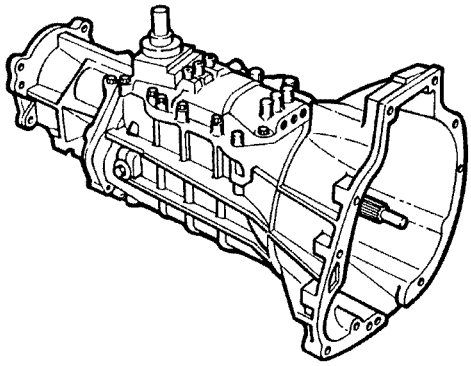
T50D Manual Transmission

Manufacturer/Assy. Plant	Borg Warner Muncie, Indiana
Transmission Type	5-Speed Manual Overdrive Transmission

Gear Ratios	**1st**	**2nd**	**3rd**	**4th**	**5th**	**Rev.**
Mustang LX	3.35	1.99	1.33	1.00	0.68	3.15

Fluid Refill Capacity	2.7 Liters
Fluid Recommendation	MERCON®
Availability	Mustang

M5OD-R1 Manual Transmission

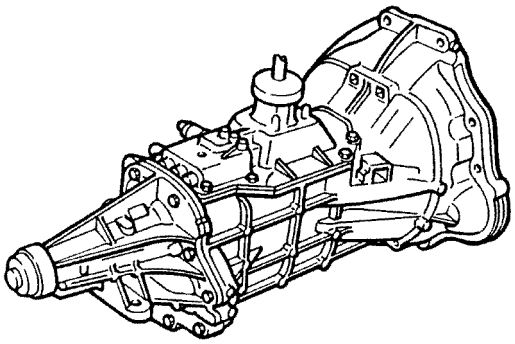


Manufacturer/Assy. Plant	Mazda Hofu, Japan
Transmission Type	5-Speed Manual Overdrive Transmission

Gear Ratios	**1st**	**2nd**	**3rd**	**4th**	**5th**	**Rev.**
2.3L, 3.0L	3.72	2.20	1.50	1.00	0.79	3.40
4.0L	3.40	2.05	1.31	1.00	0.79	3.40

Fluid Refill Capacity	2.65 Liters
Fluid Recommendation	MERCON®
Availability	Ranger, Explorer

M5OD-R2 Manual Transmission

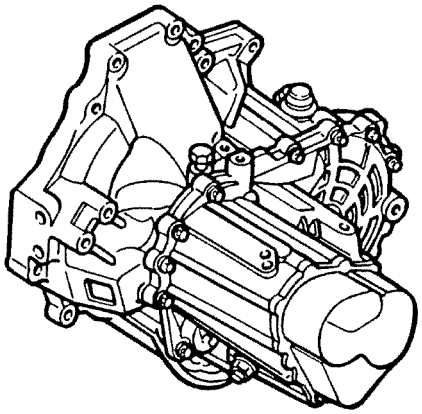


Manufacturer/Assy. Plant	Mazda Hofu, Japan
Transmission Type	5-Speed Manual Overdrive Transmission

Gear Ratios	**1st**	**2nd**	**3rd**	**4th**	**5th**	**Rev.**
	3.91	2.25	1.49	1.00	0.80	3.40

Fluid Refill Capacity	3.55 Liters
Fluid Recommendation	MERCON®
Availability	F-Series 150/250 (under 8500 GVW)

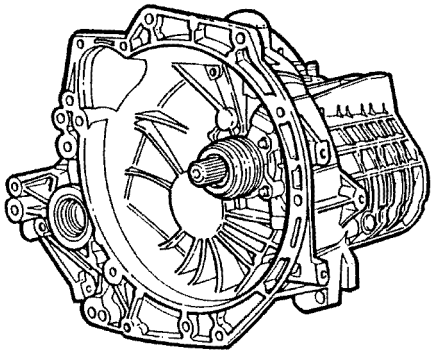
M5 Manual Transaxle (Escort)



Manufacturer/Assy. Plant	Mazda Japan
Transmission Type	5-Speed Manual Overdrive Transaxle

Gear Ratios	**1st**	**2nd**	**3rd**	**4th**	**5th**	**Rev.**
Escort/Tracer 1.8L	3.30	1.83	1.31	1.03	0.79	3.17
Escort/Tracer 1.9L (FS)	3.42	1.70	1.15	0.87	0.73	3.21
Escort/Tracer 1.9L	3.42	1.84	1.29	0.97	0.73	3.21
Escort/Tracer 2.0L S/I	3.307	1.833	1.233	.914	.717	3.166
Escort ZX2 2.0L Zetec	3.307	1.833	1.31	1.03	.795	3.166

Fluid Refill Capacity	2.7 Liters (5.7 pints)
Fluid Recommendation	MERCON®
Availability	Escort, Tracer



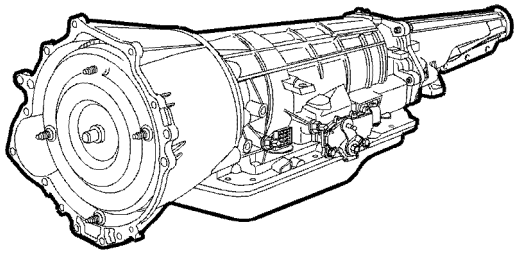
MTX-75 Manual Transaxle

Manufacturer/Assy. Plant	Ford Motor Company Cologne, Germany
Transmission Type	5-Speed Manual Overdrive Transaxle

Gear Ratios	**1st**	**2nd**	**3rd**	**4th**	**5th**	**Rev.**
	3.42	2.14	1.45	1.03	0.77	3.42

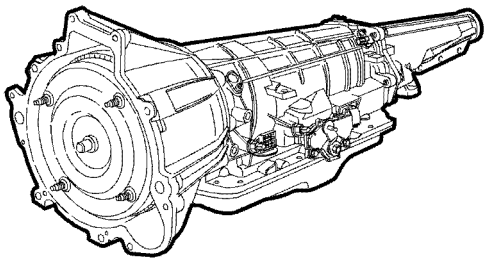
Fluid Refill Capacity	2.6 Liters (5.5 pints)
Fluid Recommendation	MERCON®
Availability	Contour, Mystique

4R44E Automatic Transmission



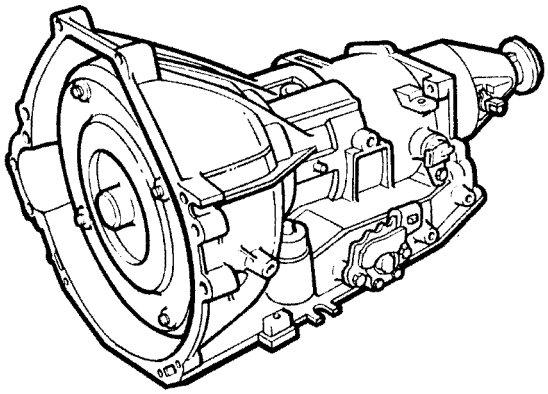
Manufacturer/Assy. Plant	Ford Motor Company Bordeaux, France
Transmission Type	4-Speed Automatic Overdrive Electronically Controlled Transmission
Gear Ratios	**1st 2nd 3rd 4th Rev.** 2.47 1.47 1.00 0.75 2.1
Gear Range Selection	P - R - OD - 2 - 1
Fluid Refill Capacity	2.5L — 9.8 qts. (9.3L) 3.0L (4x2) 10 qts. (9.5L) 3.0L (4x4) 10.3 qts. (9.8L)
Manufacturer/Assy. Plant	Ford Motor Company Cologne, Germany
Fluid Recommendation	MERCON® V
Availability	Ranger — 2.5L Ranger — 3.0L

5R55E Automatic Transmission



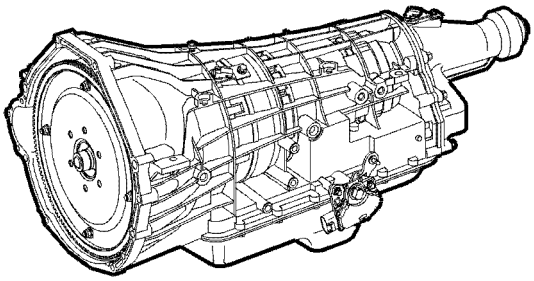
Manufacturer/Assy. Plant	Ford Motor Company Bordeaux, France
Transmission Type	5-Speed Automatic Overdrive Electronically Controlled Transmission
Gear Ratios	**1st 2nd 3rd 4th 5th Rev.** 2.47 1.87 1.47 1.00 0.75 2.1
Gear Range Selection	P - R - OD - 2 - 1
Fluid Refill Capacity	Ranger 4x2 - 10 qts. (9.5L) Ranger 4x4 - 10.3 qts. (9.8L) Mountaineer/Explorer SOHC 4x2 10 qts. (9.5L) Mountaineer/Explorer SOHC 4x4 10.3 qts. (9.8L) Mountaineer/Explorer OHV 4x2 9.8 qts. (9..3L) Mountaineer/Explorer OHV 4x4 10 qts. (9..5L)
Fluid Recommendation	MERCON® V
Availability	Ranger 4.0L OHV Explorer 4.0L OHV/4.0L SOHC Mountaineer 4.0L OHV/4.0L SOHC

4R70W Automatic Transmission



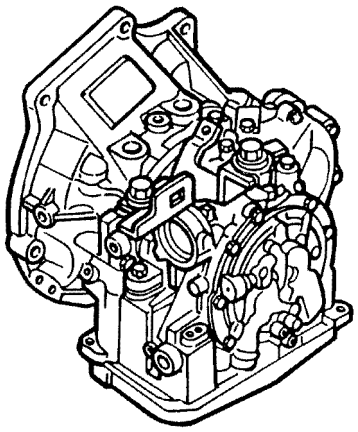
Manufacturer/Assy. Plant	Ford Motor Company Livonia, Michigan
Transmission Type	4-Speed Automatic Overdrive Transmission — Electronic
Gear Ratios	**1st 2nd 3rd 4th Rev.** 2.84 1.55 1.00 0.70 2.32
Gear Range Selection	P - R - N - OD - 2 - 1
Fluid Refill Capacity	13.2 Liters (14.0 qts.) 12.0 Liters (12.8 qts.) — Police 4.6L Mustang, Town Car only
Fluid Recommendation	MERCON® V
Availability	Mustang, Town Car, Crown Victoria, Grand Marquis, E/F-150/250 Series, Explorer/Mountaineer, Expedition

4R100 Automatic Transmission



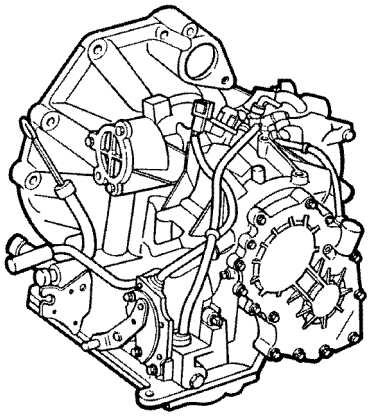
Manufacturer/Assy. Plant	Ford Motor Company Sharonville, Ohio
Transmission Type	4-Speed Automatic Overdrive Transmission — Electronic PTO optional on F-Super Duty only
Gear Ratios	**1st 2nd 3rd 4th Rev.** 2.71 1.54 1.00 0.71 2.18
Gear Range Selection	P - R - N - OD - 2 - 1
Fluid Refill Capacity	14.8 Liters (15.9 qts.) (4x2) * 15.3 Liters (16.4 qts.) (4x4) *
Fluid Recommendation	MERCON®
Availability	All F-Series Chassis Cab, Stripped Chassis All Econoline Commercial Cutaway E-Super Van/Wagon RV Cutaway Expedition Navigator

F4E Automatic Transaxle (Type F)

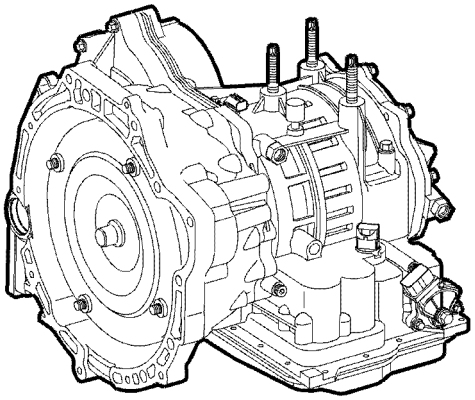


Manufacturer/Assy. Plant	Mazda Japan
Transmission Type	4-Speed Automatic Overdrive Transaxle — Electronic
Gear Ratios	**1st 2nd 3rd 4th Rev.** 2.80 1.54 1.00 0.70 2.33
Gear Range Selection	P - R - N - OD - D - L
Fluid Refill Capacity	6.1 Liters (6.4 qts.)
Fluid Recommendation	MERCON®
Availability	Escort, Tracer

4F20E Automatic Transaxle

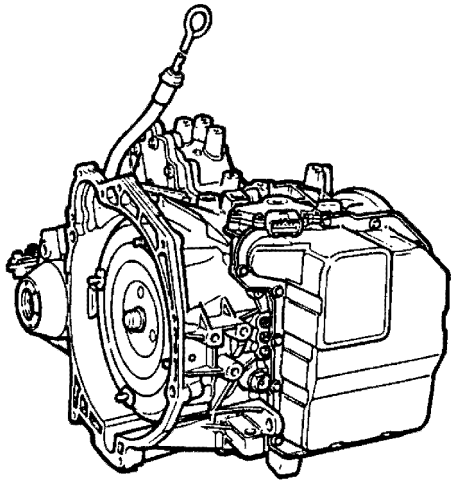


Manufacturer/Assy. Plant	Nissan Japan
Transmission Type	4-Speed Automatic Overdrive Transaxle — Electronic
Gear Ratios	**1st 2nd 3rd 4th Rev.** 2.78 1.54 1.00 0.69 2.27
Gear Range Selection	P - R - N - D - 2 - 1
Fluid Refill Capacity	8.3 Liters (8.8 qts.)
Fluid Recommendation	MERCON®
Availability	Villager



4F27E Automatic Transaxle

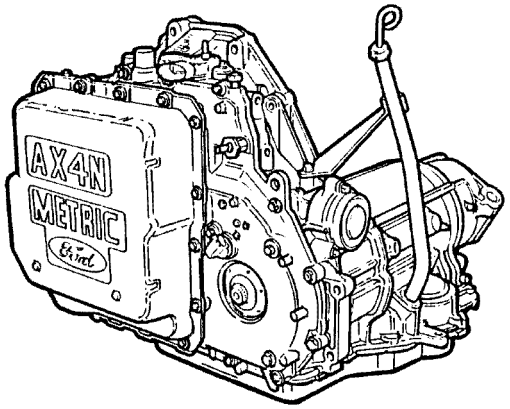
Manufacturer/Assy. Plant	Ford Motor Company, Van Dyke Plant Sterling Heights, Michigan
Transmission Type	4-Speed Automatic Overdrive Transaxle — Electronic
Gear Ratios	**1st 2nd 3rd 4th Rev.** 2.80 1.49 1.00 0.73 2.65
Gear Range Selection	P - R - N - D - 2 - 1 (O/D switch on selector lever)
Fluid Refill Capacity	6.7 Liters (7.0 qts.)
Fluid Recommendation	MERCON® V
Availability	Focus (2000 Model Year)



CD4E Automatic Transaxle

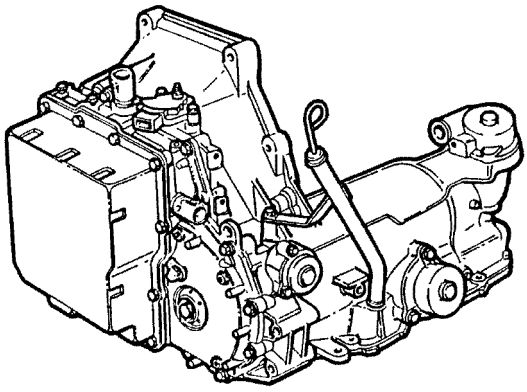
Manufacturer/Assy. Plant	Ford Motor Company Batavia, Ohio
Transmission Type	4-Speed Automatic Overdrive Transaxle — Electronic
Gear Ratios	**1st 2nd 3rd 4th Rev.** 2.89 1.57 1.00 0.69 2.31
Gear Range Selection	P - R - N - D - 2 - 1
Fluid Refill Capacity	8.5 Liters (9.0 qts.) — Contour, Mystique 2.0L, Cougar 9.6 Liters (10.2 qts.) — Contour, Mystique 2.5L, Cougar
Fluid Recommendation	MERCON®
Availability	Contour, Mystique, Cougar

AX4N Automatic Transaxle



Manufacturer/Assy. Plant	Ford Motor Company, Van Dyke Plant Sterling Heights, Michigan
Transmission Type	4-Speed Automatic Overdrive Transaxle — Electronic
Gear Ratios	**1st 2nd 3rd 4th Rev.** 2.77 1.54 1.00 0.69 2.26
Gear Range Selection	w/TCS P - R - N - OD - 2 - 1 (Taurus SHO 3.4L, Taurus/Sable 3.0L 4V) (early '99 only) w/o TCS P - R - N - OD - D - 1 (Taurus/Sable 3.0L 2V, Continental 4.6L)
Fluid Refill Capacity	12.8 Liters (13.5 qts.) — 3.0L Engine, 2V 12.7 Liters (13.4 qts.) — 3.0L Engine, 4V 3.4L Engine, Taurus SHO 13.0 Liters (13.7 qts.) — 4.6L Engine
Fluid Recommendation	MERCON® V
Availability	Taurus, Sable, Taurus SHO, Continental

AX4S Automatic Transaxle



Manufacturer/Assy. Plant	Ford Motor Company Livonia, Michigan
Transmission Type	4-Speed Automatic Overdrive Transaxle — Electronic
Gear Ratios	**1st 2nd 3rd 4th Rev.** 2.77 1.54 1.00 0.69 2.26
Gear Range Selection	w/o TCS P - R - N - OD - D - 1 (Taurus/Sable only) w/TCS P - R - N - OD - 2 - 1 (Windstar only)
Fluid Refill Capacity	11.6 Liters (12.2 qts.) — All
Fluid Recommendation	MERCON® V
Availability	Taurus, Sable, Windstar

Front Wheel Drive — Automatic Transaxles

AX4S	AX4N	CD4E
4F20E	4FE	4F27E

Front Wheel Drive — Manual Transaxles

M5	MTX-75

Rear Wheel Drive — Automatic Transmissions

4R70W	4R100	4R44E/5R55E

Rear Wheel Drive — Manual Transmissions

T5OD	T45	M5OD-R1
M5OD-R2	M5HD-C	M5HD-W

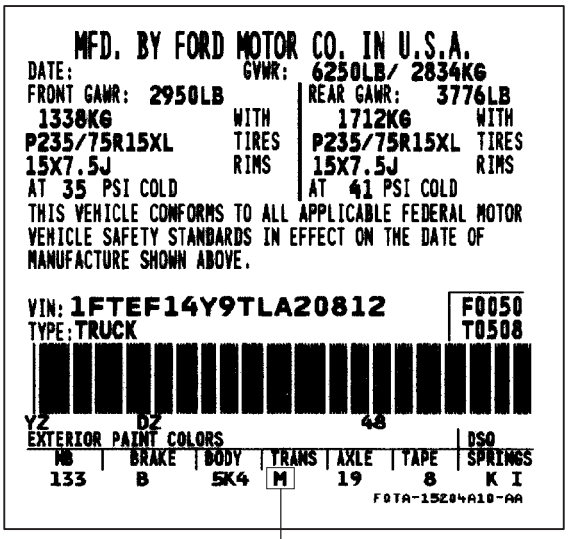
Code Translation

A	Automatic	O	Over (overdrive)
C	Vehicle Application Size (CD4E only)	S	Synchronized
		T	Transmission
C	Close Ratio	W	Wide Ratio
D	Drive	X	Transaxle
E	Electronically Controlled	4	Four Speed
F	Front Wheel Drive	5	Five Speed
H	Taurus SHO Vehicle	44	440 ft.-lbs., maximum input torque*
HD	Heavy Duty		
L	Lockup	55	550 ft.-lbs., maximum input torque*
M	Manual		
N	Non-synchronized	70	770 ft.-lbs., maximum input torque*

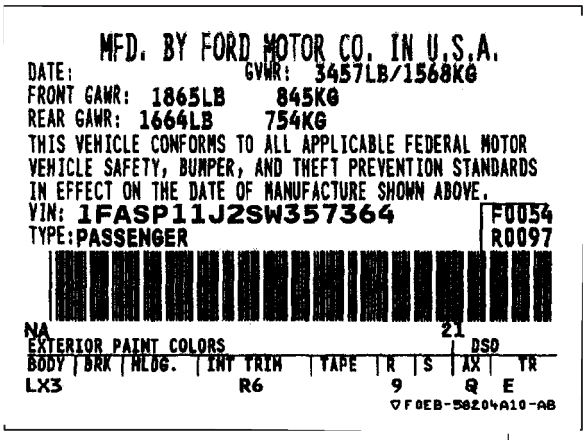
* As measured at the torque converter output and transmission input shaft.

Vehicle Certification Label (located on door pillar)

TRUCK APPLICATION



PASSENGER CAR APPLICATION



Code	MANUAL TRANSMISSION
M	Manual 5-Speed Overdrive (MAZDA R2)
C	Manual 5-Speed Overdrive (Close Ratio)
W	Manual 5-Speed Overdrive (DANA ZF)
	AUTOMATIC TRANSMISSION
U	Automatic 4-Speed Overdrive (4R70W)
T	Automatic 4-Speed Overdrive (4R44E/4R55E)
E	Automatic 4-Speed Overdrive (4R100)

FRONT WHEEL DRIVE

Code	MANUAL TRANSAXLE
R	5-Speed Overdrive (MTX75)
W	5-Speed Overdrive (M5)
	AUTOMATIC TRANSAXLE
E	4-Speed Overdrive (4FE)
J	3-Speed (MAZDA)
L	4-Speed Overdrive (AX4S)
P	4-Speed Overdrive (4F20E)
X	4-Speed Overdrive (AX4N)
Y	4-Speed Overdrive (CD4E)

REAR WHEEL DRIVE

Code	MANUAL TRANSAXLE
5	5-Speed (MAZDA M5)
	AUTOMATIC TRANSMISSION
U	4-Speed Overdrive (4R70W)

WORLD MANUFACTURER IDENTIFIER

(VIN POSITIONS 1, 2, AND 3)

1FA BP40M2NX100001

VIN CODE 1ST-2ND-3RD POSITIONS	VEHICLE MANUFACTURER	MAKE	TYPE
1FA	FORD MOTOR COMPANY, USA	FORD	PASSENGER CAR
1FM	FORD MOTOR COMPANY, USA	FORD	MPV
1FT	FORD MOTOR COMPANY, USA	FORD	TRUCK (COMPLETE VEHICLE)
1FD	FORD MOTOR COMPANY, USA	FORD	INCOMPLETE VEHICLE
1FC	FORD MOTOR COMPANY, USA	FORD	BASIC (STRIPPED) CHASSIS
1FB	FORD MOTOR COMPANY, USA	FORD	BUS
1FF	FORD MOTOR COMPANY, USA	FORD	MOTOR VEHICLE EQUIPMENT W/O ENGINE/ POWERTRAIN (GLIDER)
1ME	FORD MOTOR COMPANY, USA	MERCURY	PASSENGER CAR
1MH	FORD MOTOR COMPANY, USA	MERCURY	INCOMPLETE VEHICLE
1LN	FORD MOTOR COMPANY, USA	LINCOLN	PASSENGER CAR
1LJ	FORD MOTOR COMPANY, USA	LINCOLN	INCOMPLETE VEHICLE
1L1	AUTOALLIANCE INTERNATIONAL, INC.	LINCOLN	PASSENGER CAR — LIMOUSINE
2FA	FORD MOTOR COMPANY OF CANADA, LTD.	FORD	PASSENGER CAR
2FM	FORD MOTOR COMPANY OF CANADA, LTD.	FORD	MPV
2FT	FORD MOTOR COMPANY OF CANADA, LTD.	FORD	TRUCK (COMPLETED VEHICLE)
2FD	FORD MOTOR COMPANY OF CANADA, LTD.	FORD	INCOMPLETE VEHICLE
2FC	FORD MOTOR COMPANY OF CANADA, LTD.	FORD	BASIC (STRIPPED) CHASSIS
2FB	FORD MOTOR COMPANY OF CANADA, LTD.	FORD	BUS
2FF	FORD MOTOR COMPANY OF CANADA, LTD.	FORD	MOTOR VEHICLE EQUIPMENT W/O ENGINE/ POWERTRAIN (GLIDER)
2ME	FORD MOTOR COMPANY OF CANADA, LTD.	MERCURY	PASSENGER CAR
2MH	FORD MOTOR COMPANY OF CANADA, LTD.	MERCURY	INCOMPLETE VEHICLE
3FA	FORD MOTOR COMPANY S.A. de C.V. (MEXICO)	FORD	PASSENGER CAR
3FB	FORD MOTOR COMPANY S.A. de C.V. (MEXICO)	FORD	BUS
3FC	FORD MOTOR COMPANY S.A. de C.V. (MEXICO)	FORD	BASIC (STRIPPED VEHICLE)
3FE	FORD MOTOR COMPANY S.A. de C.V. (MEXICO)	FORD	INCOMPLETE VEHICLE
3FM	FORD MOTOR COMPANY S.A. de C.V. (MEXICO)	FORD	MPV
3FT	FORD MOTOR COMPANY S.A. de C.V. (MEXICO)	FORD	TRUCK (COMPLETE VEHICLE)
3ME	FORD MOTOR COMPANY S.A. de C.V. (MEXICO)	MERCURY	PASSENGER CAR
4F2	FORD MOTOR COMPANY, USA	MAZDA	MPV
4F3	FORD MOTOR COMPANY, USA	MAZDA	INCOMPLETE VEHICLE
4F4	FORD MOTOR COMPANY, USA	MAZDA	TRUCK (COMPLETED VEHICLE)
4M2	FORD MOTOR COMPANY, USA	MERCURY	MPV
4M3	FORD MOTOR COMPANY, USA	MERCURY	INCOMPLETE VEHICLE
4M4	FORD MOTOR COMPANY, USA	MERCURY	TRUCK (COMPLETED VEHICLE)
4N2	FORD MOTOR COMPANY, USA	NISSAN	MPV
4N3	FORD MOTOR COMPANY, USA	NISSAN	INCOMPLETE VEHICLE
4N4	FORD MOTOR COMPANY, USA	NISSAN	TRUCK (COMPLETED VEHICLE)
5LM	FORD MOTOR COMPANY, USA	LINCOLN	MPV
5LT	FORD MOTOR COMPANY, USA	LINCOLN	TRUCK (COMPLETED VEHICLE)
5LD	FORD MOTOR COMPANY, USA	LINCOLN	IMCOMPLETE VEHICLE

VEHICLE IDENTIFICATION NUMBER

RESTRAINT SYSTEM TYPE (VIN POSITION 4)

1FA [B] P40F2MZ100001

PASSENGER CAR IDENTIFIERS	VIN CODE
Active Belts (all designated seating positions)	B
Active Belts (all designated seating positions) plus Driver Air Bag	C
Active Belts (all designated seating positions with 3-point belts in all outboard positions) plus Driver and Passenger Air Bags	L

MANUFACTURER SPECIFICATION (VIN POSITION 5)

1FAB [P] 40M2MX100001

DESCRIPTION	VIN CODE
"Ford" make	P
"Lincoln" or "Mercury" make	M

Line, Series, Body Type (Vin Position 6 and 7)

VIN CODE 5TH-6TH-7TH POSITIONS	VEHICLE LINE (Optional Nameplate)	BODY TYPE
	FORD DIVISION CAR LINES	
P10	ESCORT LX	4-DR. SEDAN
P11	ESCORT ZX2	2-DR. COUPE
P13	ESCORT SE	4-DR. SEDAN
P15	ESCORT SE	4-DR. STATION WAGON
P40	MUSTANG BASE	2-DR. COUPE
P42	MUSTANG GT	2-DR. COUPE
P44	MUSTANG BASE	2-DR. CONV.
P45	MUSTANG GT	2-DR. CONV.
P46	MUSTANG COBRA	2-DR. CONV
P47	MUSTANG COBRA	2-DR. COUPE
P52	TAURUS LX/SE	4-DR. SEDAN
P53	TAURUS SE COMFORT	4-DR. SEDAN
P54	TAURUS SHO	4-DR. SEDAN
P58	TAURUS SE COMFORT	4-DR. STATION WAGON
P65	CONTOUR BASE/LX	4-DR. SEDAN
P66	CONTOUR SE	4-DR. SEDAN
P68	CONTOUR SVT	4-DR. SEDAN
P71	CROWN VICTORIA POLICE INTC.	4-DR. SEDAN
P72	CROWN VICTORIA FLEET	4-DR. SEDAN
P73	CROWN VICTORIA BASE	4-DR. SEDAN
P74	CROWN VICTORIA LX	4-DR. SEDAN
A51	WINDSTAR LX	3 / 4 DR. WAGON
A52	WINDSTAR SE	4-DR. WAGON
A53	WINDSTAR SEL	4-DR. WAGON
A54	WINDSTAR BASE	3-DR. CARGO VAN

VIN CODE 5TH-6TH-7TH POSITIONS	VEHICLE LINE (Optional Nameplate)	BODY TYPE
	LINCOLN-MERCURY DIVISION CAR LINES	
M10	TRACER GS	4-DR. SEDAN
M13	TRACER LS	4-DR. SEDAN
M15	TRACER LS	4-DR. STATION WAGON
M50	SABLE GS	4-DR. SEDAN
M53	SABLE LS PREMIUM	4-DR. SEDAN
M58	SABLE LS PREMIUM	4-DR. STATION WAGON
M60	COUGAR	3-DR. COUPE
M61	COUGAR	3-DR. COUPE
M65	MYSTIQUE BASE/GS	4-DR. SEDAN
M66	MYSTIQUE LS	4-DR. SEDAN
M74	GRAND MARQUIS GS	4-DR. SEDAN
M75	GRAND MARQUIS LS	4-DR. SEDAN
M81	LINCOLN TOWN CAR EXECUTIVE	4-DR. SEDAN
M82	LINCOLN TOWN CAR SIGNATURE	4-DR. SEDAN
M83	LINCOLN TOWN CAR CARTIER	4-DR. SEDAN
M97	CONTINENTAL	4-DR. SEDAN
V11	VILLAGER GS	WAGON
	OTHER EXTERIOR NAMEPLATES - LS, NAUTICA	
	LINCOLN-MERCURY DIVISION TRUCK LINES	
U27	NAVIGATOR	4-DR. (4X2)
U28	NAVIGATOR	4-DR. (4X4)
U52	MOUNTAINEER	4-DR. (4X2)
U54	MOUNTAINEER	4-DR. (4X4)
U55	MOUNTAINEER	4-DR. (AWD)

Line, Series, Body Type (Vin Position 5, 6, and 7)

VIN CODE 5TH-6TH-7TH POSITIONS	VEHICLE LINE (Optional Nameplate)	BODY TYPE
FORD DIVISION LIGHT TRUCK LINES		
ECONOLINE VAN AND CLUB WAGON		
E11	E-150	CLUB WAGON
E14	E-150	CARGO VAN
E24	E-250	CARGO VAN
E27	E-250	COMMERCIAL CUTAWAY
S31	E-350	SUPER DUTY EXTENDED WAGON
E29	E-250	STRIPPED CHASSIS
E30	E-350	RV CUTAWAY
E31	E-350	SUPER DUTY WAGON
E34	E-350	CARGO VAN
E37	E-350	COMMERCIAL CUTAWAY STRIPPED CHASSIS
E39	E-350	
Optional Exterior Nameplates —	XL, XLT, STX, 4X4 Off Road, Eddie Bauer, CNG-Diamond, Natural Gas, Triton V8.	
LIGHT TRUCK — REGULAR CAB		
F07	F-150	FLARESIDE CAB (4X2)
F08	F-150	FLARESIDE CAB (4X4)
F17	F-150	STYLESIDE CAB (4X2)
F18	F-150	STYLESIDE CAB (4X4)
F20	F-250	STYLESIDE CAB (4X2)
F21	F-250	STYLESIDE CAB (4X4)
F27	F-250	STYLESIDE CAB (4X2)
F28	F-250	STYLESIDE CAB (4X4)
F30	F-350	REGULAR CAB (4X2)
F31	F-350	REGULAR CAB (4X4)
F32	F-350 DUAL	REGULAR CAB (4X2)
F33	F-350 DUAL	REGULAR CAB (4X4)
F34	F-350	CHASSIS CAB (4X2)
F35	F-350	CHASSIS CAB (4X4)
F36	F-350	CHASSIS CAB (4X4)
F37	F-350	CHASSIS CAB (4X4)
Optional Exterior Nameplate —	XL, XLT, Chateau, Power Stroke Diesel, RV, CNG-Diamond, Natural Gas, Triton V8, Triton V10	

VIN CODE 5TH-6TH-7TH POSITIONS	VEHICLE LINE (Optional Nameplate)	BODY TYPE
FORD DIVISION LIGHT TRUCK LINES		
SUPER VAN AND SUPER WAGON		
S24	ECONOLINE E-250	SUPER VAN (4X2)
S31	XL	CLUB WAGON (4X2)
S34	ECONOLINE E350	SUPER VAN (4X2)
RANGER		
R08	RANGER ELEC.	REGULAR CAB
R10	RANGER (4X2) XL	REGULAR CAB
R11	RANGER (4X4) XL	REGULAR CAB
R14	RANGER (4X2) XL	SUPERCAB
R15	RANGER (4X4) XL	SUPERCAB
Optional Exterior Nameplates —	XLT, Splash, 4X4, 4X4 Off Road, EV (Leaf/Road)	
EXPEDITION		
U17	EXPEDITION XLT (4X2)	4-DOOR
U18	EXPEDITION XLT (4X4)	4-DOOR
Optional Exterior Nameplates —	Sport, XLT, Eddie Bauer, Limited, Control Trac 4WD, V8	
EXPLORER		
U22	(4X2) XL	2-DOOR
U24	(4X4) XL	2–DOOR
U32	(4X2) XL	4-DOOR
U34	(4X4) XL	4-DOOR
U35	(AWD) XLT	4-DOOR
Optional Exterior Nameplates —	XLT, Eddie Bauer, Sport, Limited, Control Trac 4WD, V8	
LIGHT TRUCK — CREW CAB		
W20	F-250 XL	CREW CAB (4X2)
W21	F-250 XL	CREW CAB (4X4)
W35	F-350 XL	CREW CAB (4X4)
W36	F-350 XL	CREW CAB (4X2)
W37	F-350 XL	CREW CAB (4X4)
LIGHT TRUCK — SUPERCAB		
X07	F-150	FLARESIDE (4X2)
X08	F-150	FLARESIDE (4X4)
X17	F-150	STYLESIDE (4X2)
X18	F-150	STYLESIDE (4X4)
X20	F-250	STYLESIDE (4X2)
X21	F-250	STYLESIDE (4X4)
X27	F-250	STYLESIDE (4X2)
X28	F-250	STYLESIDE (4X4)
X30	F-350	SUPERCAB (4X2)
X31	F-350	SUPERCAB (4X4)
X32	F-350	SUPERCAB (4X2)
X33	F-350	SUPERCAB (4X4)
X34	F-350	CHASSIS (4X2)
X35	F-350	SUPERCAB (4X4)
X36	F-350	SUPERCAB (4X2)
Optional Exterior Nameplates —	XL, XLT, 4X4 Off Road, Eddie Bauer, Lariat, CNG-Diamond, Natural Gas, Triton V8, STX.	

VEHICLE IDENTIFICATION NUMBER

ENGINE TYPE (VIN POSITION 8)

VIN CODE 8TH POSITION	ENGINE LITER	CYL	FUEL
	PASSENGER CAR		
A	3.9 EFI DOHC	V-8	GAS
G	2.5 EFI - DOHC	V-6	GAS
L	2.5 EFI - DOHC	V-6	GAS
N	3.4 EFI - DOHC-SHO (YAMAHA)	V-8	GAS
P	2.0 EFI - SPI	I-4	GAS
S	3.0 EFI - DOHC	V-6	GAS
U	3.0 EFI	V-6	GAS
V	4.6 EFI DOHC	V-8	GAS
W	4.6 EFI SOHC (R)	V-8	GAS
X	4.6 EFI - SOHC	V-8	GAS
Z	2.0 EFI - DOHC	I-4	GAS-GFP
1	3.0 EFI - FFV	V-6	GAS-M85
2	3.0 EFI – FFV	V-6	GAS/E85
3	2.0 DOHC	I-4	GAS
4	3.8 EFI	V-6	GAS
9	4.6 EFI - SOHC	V-8	CNG
	LIGHT TRUCK		
A	5.4 EFI		
C	2.5 EFI - SOHC	I-4	GAS
E	4.0 EFI - SOHC	V-6	GAS
F	7.3 DIT (NAVISTAR)	V-8	DIESEL
L	5.4 EFI - SOHC (W)	V-8	GAS
M	5.4 EFI - SOHC (W)	V-8	GAS/GFP
P	5.0 EFI	V-8	GAS
S	6.8 EFI -SOHC	V-10	GAS
T	3.3 (NISSAN)	V-6	GAS
U	3.0 EFI	V-6	GAS
V	3.0 FFV	V-6	GAS/E85
W or 6	4.6 EFI - SOHC (R) or (W)	V-8	GAS
X	4.0 EFI	V-6	GAS
Z	5.4 EFI - SOHC	V-8	GAS/GFP
2	4.2 EFI - SPI	V-6	GAS
4	3.8 EFI SPI	V-6	GAS
7	67 KW	325 VOLTS	ELECTRIC

CNG — COMPRESSED NATURAL GAS
DIT — DIRECT INJECTION TURBO
DOHC — DUAL OVERHEAD CAMSHAFT
GFP — GASEOUS FUEL PREP.
LPG — LIQUID PETROLEUM GAS
SHO — SUPER HIGH OUTPUT
SOHC — SINGLE OVERHEAD CAM
SPI — SPLIT PORT INDUCTION

CHECK DIGIT (VIN POSITION 9)

VIN CHECK DIGIT FOR ALL VEHICLES

(VIN POSITION 9)

1FABP43M [2] MX100001

VEHICLE MODEL YEAR (VIN POSITION 10)

VIN CODE 10TH POSITION	MODEL YEAR
W	1998
X	1999
Y	2000

PLANT OF MANUFACTURER (VIN POSITION 11)

VIN CODE 11TH POSITION	PLANT	VIN CODE 11TH POSITION	PLANT
A	ATLANTA	P	TWIN CITIES
B	OAKVILLE	R	HERMOSILLO
C	ONT. TRUCK	T	EDISON
D	OHIO	U	LOUISVILLE
E	KY. TRUCK	V	KENTUCKY TRUCK
F	DEARBORN		
G	CHICAGO	W	WAYNE
H	LORAIN	X	ST. THOMAS
J	MEXICO	Y	WIXOM
K	KANSAS CITY	Z	ST. LOUIS
L	MICH. TRUCK	5	FLAT ROCK
M	CUAUTITLAN		
N	NORFOLK		

PRODUCTION SEQUENCE NUMBER (VIN POSITION 12-17)

1FABP40M2MX [100001]

SEQUENCE NUMBER
100,001 THROUGH 599,999 — FORD DIVISION VEHICLES 600,001 THROUGH 999,999 — LINCOLN/MERCURY DIVISION VEHICLES

CNG	Compressed Natural Gas
COP	Coil on Plug
CVH	Controlled Vortex Head
DI	Distributor Ignition System
DIT	Direct Injection Turbo
DOHC	Double Overhead Cam
EI	Electronic Ignition System
EFI	Electronic Fuel Injection
FF	Flexible Fuel Vehicle
HD	Heavy Duty
HO	High Output
LD	Light Duty
LPG	Liquid Petroleum Gas
MFI	Multiport Fuel Injection
NA	Natural Aspiration
OHC	Overhead Cam
SC	Super Charged
SHO	Super High Output (Taurus only)
SOHC	Single Overhead Cam
SEFI	Sequential Electronic Fuel Injection
SPI	Split Port Induction
TC	Turbocharged
TPH	Twin Plug Head

EQUIVALENTS*

1 kW = 1.341 HP
1 HP = 0.746 kW
1 Nm = 0.737 Lb. ft.
1 Ft. lb. = 1.356 Nm

* **Note:** Factors are provided for approximation purposes only and are not representative of actual certification values.