GROUP

GENERAL SERVICE INFORMATION

representation of the property of the property

| PAGE | SECTION TITLE PAG |
|-------------------------|---|
| IDENTIFICATION CODES | MAINTENANCE AND LUBRICATION00-03-NOISE, VIBRATION AND HARSHNESS00-04- |
| EMERGENCY TOWING00-02-1 | |

SECTION 00-01 Identification Codes

| SUBJECT PAGE | SUBJECT PAGE |
|--|---|
| | IDENTIFICATION CODES00-01-4 |
| | |
| Official Vehicle Identification Number00-01-1 Vehicle Certification Label00-01-1 | 그는 두 마음 그를 물었다면 그 그리고 그렇게 하면 하는 것이 되었다. 그는 그를 하는 것이 되었다면 하는 것이 되었다면 하는 것이 되었다면 하는 것이 없다면 없었다. |

VEHICLE APPLICATION

Taurus/Sable.

DESCRIPTION

Official Vehicle Identification Number

The official Vehicle Identification Number (VIN) for title and registration purposes is stamped on a metal tab that is fastened to the instrument panel close to the windshield on the LH side of the vehicle and is visible from outside.

Vehicle Certification Label

The Vehicle Certification Label (V.C. Label) is affixed on the LH front door lock panel or door pillar. The upper half of the label contains the name of manufacturer, month and year of manufacture, Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Rating (GAWR) and the certification statement.

The V.C. Label also contains a 17 character Vehicle Identification Number. This number is used for warranty identification of the vehicle, and indicates: manufacturer, type of restraint system, line, series, body type, engine, model year and consecutive unit number.

The last six digits of the Vehicle Identification Number indicate the Consecutive Unit Number of each unit built at each assembly plant. The Consecutive Unit Numbers begin as follows:

100 001 thru 600 000: Ford Division Vehicles.

DESCRIPTION (Continued)

600 001 thru 999 999: Lincoln/Mercury Division Vehicles.

The remaining information on the V.C. Label consists of the following vehicle identification codes: color and body type, vinyl roof, moulding and interior trim. Additional codes indicate vehicles equipped with air conditioning, radio type, sun roof type (if any), as well as axle, transmission, spring, district sales office and special order codes.

The following charts provide various codes and their respective identification.



FACE OF TOWN TO THE STATE OF TH

isofficablic-collection

Taggs samuel Company and inspection

TO TO DESCRIPTION OF THE PROPERTY OF THE PROPE

The official vehicle identification (lumber (VIIV) for tific and registration purposes is stamped on a metal tability is featened to the instrument panel close to the winderfield on the LH side of the vehicle and is distributed in

vindshield on itse LH side of the vehicle and is visible? rom outside sidt garannasi inch saga 200 us salt 200 us 100 us

rentota Certification Label

The Vehicle Certification Label (V.C. Label) is amond
at the Lift rent door look panel or good pillar. The religion

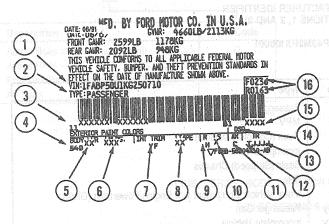
upper high of the label content the name of manufacturer under seat year of nighting rains (Crase) -Venicle Weiger Hating Krivitti), Grass (Are Weight India Paulog (CAVVI) and the cartification statement.

DESCRIPTION (Continued)

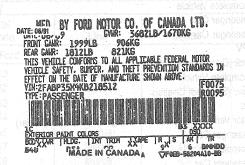
Certification Label (Typical)

1FABP43F2PZ100001

VEHICLE IDENTIFICATION NUMBER



UNITED STATES



DECAL APPLIED TO CANADA BUILT UNITS CANADA



DATE: 06:91 B9 CWR: 49:00LB-2222KG
FRONT CAIR: 2557LB 1157KG
REAR CAIR: 2450LB 1157KG
REAR CAIR: 2450LB 1157KG
REAR CAIR: 2450LB 1102KG
REAR CAIR: 2450LB 1102KG
REAR CAIR: 2450LB 1157KG
REAR CAIR

UNITED STATES EXPORT LABEL SHOWN (CANADIAN EXPORT LABEL TYPICAL)

NOTE: X'S ON LABELS ARE SHOWN IN PLACE OF ACTUAL NUMBERS TO REPRESENT TYPICAL LABELS ONLY. F WORLD MANUFACTURER IDENTIFIER

B) RESTRAINT SYSTEM TYPE

P) CONSTANT "P"

LINE, SERIES, BODY TYPE

F) ENGINE TYPE

2) CHECK DIGIT

MODEL YEAR

ASSEMBLY PLANT

2

PRODUCTION SEQUENCE NUMBER

0

(2) VEHICLE TYPE

3) PAINT

BODY TYPE CODE

5) VINYL ROOF

6) BODY SIDE MOULDING

TRIM CODE—(FIRST CODE LETTER = FABRIC AND SEAT TYPE, SECOND CODE = COLOR)

8) TAPE STRIPE

(9) RADIO

10) SUN/MOON ROOF

11) AXLE RATIO

12) TRANSMISSION

SPRINGS—FRONT L. AND R. REAR L. AND R. (4 CODES)

(14) DISTRICT SALES OFFICE

(15) PTO/SPL ORDER NUMBER

16) ACCESSORY RESERVE LOAD

Y3054-C

IDENTIFICATION CODES

WORLD MANUFACTURER IDENTIFIER (VIN POSITIONS 1, 2 AND 3)

| Code | 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 | | Incomplete Vehicle | | |
| 1LN | Ford Motor Company, USA | Lincoln | Passenger Car | | |
| 1LJ | Ford Motor Company, USA | Lincoln | Incomplete Vehicle | | |
| 1ZV | Mazda Motor Manufacturing (USA) Corp. | Ford | Passenger Car | | |
| 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 (Complete 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 | | |
| 3FC | Ford Motor Company S. A. de C. V. (Mexico) | Ford | Basic (Stripped) Chassis | | |
| 3MA | Ford Motor Company S. A. de C. V. (Mexico) | Mercury | Passenger Car | | |
| 4M2 | Ford Motor Company, USA | Mercury | MPV | | |
| 4M3 | Ford Motor Company, USA | Mercury | Incomplete Vehicle | | |
| 4M4 | Ford Motor Company, USA | Mercury | MPV (Complete Vehicle) | | |
| SMP . | Ford Motor Company of Australia, Ltd. | Mercury | Passenger Car (Imported Capri) | | |
| KNJ | Kia Motors Inc., Korea | Ford | Passenger Car (Imported Capit) | | |

CY2202-M

RESTRAINT SYSTEM TYPE

(VIN POSITION 4)

1FA C P43F2PZ100001

| Description | VIN Code |
|-----------------------------------|------------|
| Active Belts and Air Bags (Front) | C |
| Active Belts — All | L Complete |
| Positions/Passenger and Driver | |
| Air Bags | |
| | CY2203-N |

VIN POSITION 5

1FAB P 43M2PX100001

| Code | Vehicle |
|------|--|
| Р | Passenger Car — Ford North Amercian Vehicles |
| М | Passenger Car — Lincoln/Mercury North American Vehicles |
| + | Passenger Car — Association Vehicles |

CY2204-N

LINE, SERIES, BODY TYPE FOR PASSENGER CARS

(VIN POSITIONS 6 AND 7)

1FABP 50 F2PZ100001

| VIN Code | Line | Series | Additional Optional Exterior Nameplates | Body Type | Body Code |
|----------------|------------------------|--------|--|---------------------|--------------|
| Make — Ford | | | | | |
| 50 | Taurus | L | | 4-Dr. Sedan | FC4 |
| 52 | Taurus | GL | | 4-Dr. Sedan | FC4 |
| 53 | Taurus | LX | | 4-Dr. Sedan | FC4 |
| 54 | Taurus | SHO | | 4-Dr. Sedan | FC4 |
| 55 | Taurus | | 네티 분들이 되었는데 모르다 되자 | 4-Dr. Station Wagon | FFW |
| 57 | Taurus | GL | | 4-Dr. Station Wagon | FFW |
| 58 | Taurus | LX | | 4-Dr. Station Wagon | FFW |
| Make — Mercury | Same Autorition (1997) | | | | |
| 50, 53 | Sable | GS | LS | 4-Dr. Sedan | FC4 |
| 55, 58 | Sable | GS | LS | 4-Dr. Station Wagon | FFW |

CY2637-F

ENGINE TYPE — DISPLACEMENT, CYLINDERS, FUEL TYPE, AND MANUFACTURER

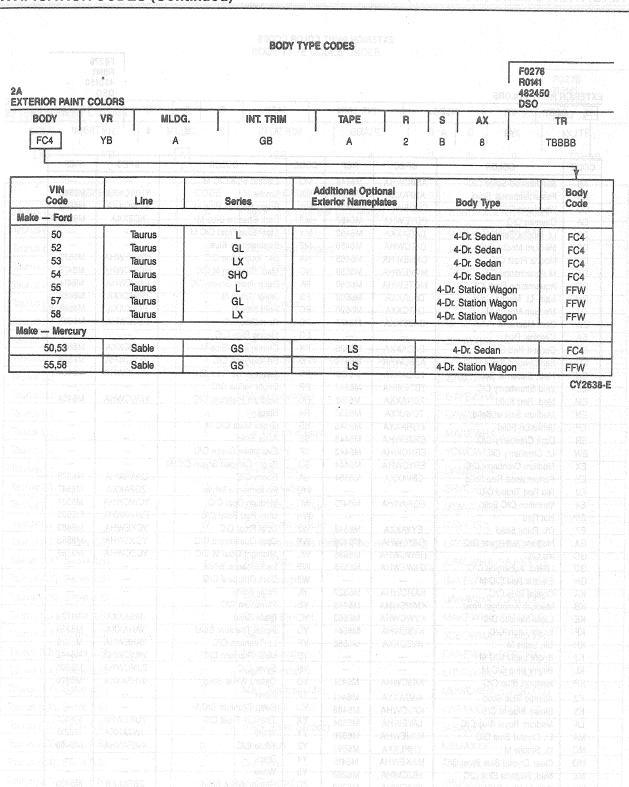
(VIN POSITION 8)

1FABP18 4 2PZ100001

| | Displace | ment | | | |
|----------|---------------|--------|-----------|----------|--------------|
| VIN Code | Liter | CID | Cylinders | Fuel | Manufacturer |
| [] | 3.0L OHV SFI | 182 | 6 | Gasoline | Ford |
| P | 3.2L DOHC SHO | A0000A | 6 | Gasoline | Yamaha |
| Δ | 3.8L SFI | 232 | 6 | Gasoline | Ford |
| Y | 3.0L DOHC SHO | 182 | 6 | Gasoline | Yamaha |

CY2642-G

| VIN CHECK DIGIT FOR ALL VEHICLES (VIN POSITION 9) 1FABP43M 2 PX100001 | | | PRODUCTION SEQUENCE NUMBER (VIN POSITIONS 12 THROUGH 17) 1FABP43M2PX 100001 | | | | |
|--|--|--|--|---|--|--|--|
| | | Y2207-M | 5, 2 <u>1</u> 460 23, 17, 15, 15, 15 | \ | | | |
| | | ,122U/=WI | | Sequence Number | | | |
| | eAlfaborid - niô regroced | | 100,001 through 60 | 0,000 — Ford Division | Vehicles | | |
| | 4.000000000000000000000000000000000000 | | 600,001 through 99 | 99,999 — Lincoln/Merc | ury Division Vehicles | | |
| | MODEL YEAR FOR ALL VEHICLE (VIN POSITION 10) | ES | | | CY2210-I | | |
| | 1FABP43M2 P X100001 | | | | | | |
| | | | | | | | |
| VIN Code | | Year | | | | | |
| | | | | | | | |
| | e de es x de exercis (1,0,2,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1, | | | | | | |
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| V | i Meior Corporate i 1854 | | | | | | |
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| | *************************************** | | | | | | |
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| | | | | | | | |
| | ASSEMBLY PLANT | | | | | | |
| | (VIN POSITION 11) | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | Mary Daelas, S.A. | | | | | | |
| | | | | | | | |
| CFFACE FACE ZNEWEE AND AND ADDRESS AND AD | FABP43MZP [X] 100001 | | | | | | |
| VIN Code | FABP43MZP X 100001 Plant Location | Peya M Mercury In November In | | | | | |
| CFFACE FACE ZNEWEE AND AND ADDRESS AND AD | FABP43MZP [X] 100001 | Polici Marcury In South | Stranger Stranger Stranger Stranger Stranger Car XI | Sable Sable Sable Sable | | | |
| VIN Code A B B B B C C C C C C C C C | FABP43MZP X 100001 Plant Location Atlanta | Police Marcury In Some Section | | Surus Sarus Sarus Sarus | | | |
| VIN Code SO A BO D LOSS F | FABP43MZP X 100001 Plant Location Atlanta Oakville Ohio Dearborn | Polici Marcury In South | Stranger Stranger Stranger Stranger Stranger Car XI | Sable Sable Sable Sable | | | |
| VIN Code SO A BB BB CODE | FABP43MZP X 100001 Plant Location Atlanta Oakville Ohio Dearborn Chicago | Pokic Marcary In Absorber 2.1 Political Polit | September 1988 | Sable Sable Sable Sable | | | |
| VIN Code A B D COMPANY G H H H H H H H H H H H H H H H H H H | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain | Post Marcary In Abstract Post Post Post Post Post Post Post Pos | ACCOSON REPORTS CONTROL VENERAL CONTROL CAY XU CONTROL CAY CO | Saple Sable Sable Sable | | | |
| VIN Code A B D F G H K K | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison | Africary In Notice of the Control of | Strangen Cor Andrews Cor Stranger Cor XI The Stranger Cor XI The Stranger Cor XI The Stranger Cor Stranger | Sapte | | | |
| VIN Code A B D G G H K K W | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne | Africany In Advice by In In Advice by In Advice by In Advice by In Advice by In | Same appear of the complete of | Sapte | | | |
| VIN Code VIN Code B B B B B B C C C C C C C C C C C C C | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne St. Thomas | Poko Mareny Poko Poko Poko Poko Poko Poko Poko Pok | Supplying Section 1997 Company Very Editors Supplying Car SD Section 1997 Supplying Section 1997 Supplyin 1997 Supplying Section 1997 Supplying Section 1997 Supplying | Sapte | | | |
| VIN Code VIN Code B B C C C C C C C C C C C C C C C C C | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne St. Thomas Wixom | Poko Mareny Poko Poko Poko Poko Poko Poko Poko Pok | Same appear of the complete of | Sapte | | | |
| VIN Code A B B C G K K W X Y R | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne St. Thomas Wixom Hermosillo, Mexico | Newsy In Newsy In State of Sta | Supopopo de Paris de | Sapte | | | |
| VIN Code VIN Code B B C C C C C C C C C C C C C C C C C | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne St. Thomas Wixom Hermosillo, Mexico Louisville | Newsy In Newsy In State of Sta | Supplying Section 1997 Company Very Editors Supplying Car SD Section 1997 Supplying Section 1997 Supplyin 1997 Supplying Section 1997 Supplying Section 1997 Supplying | Sapte | | | |
| VIN Code A B D G G H K W X Y R U | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne St. Thomas Wixom Hermosillo, Mexico | Newsy In Newsy In State of Sta | Supopopolico de la company de | Sabe Sabe Sabe | | | |
| VIN Code A B D F G H K T W X Y R U V 8 6 | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne St. Thomas Wixom Hermosillo, Mexico Louisville Jefferson County Broadmeadows, Australia Sohari, South Korea | Post Nerthern State of the Control o | Supplying the second of the se | Sabse Bischer | | | |
| VIN Code A B B C G H K W X Y R U V 8 6 | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne St. Thomas Wixom Hermosillo, Mexico Louisville Jefferson County Broadmeadows, Australia Sohari, South Korea Flat Rock | A POST A | Sample of Action of the Company of t | Same Same Same Same Same Same Same Same | ES SE S | | |
| VIN Code A B D F G H K T W X Y R U V 8 6 | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne St. Thomas Wixom Hermosillo, Mexico Louisville Jefferson County Broadmeadows, Australia Sohari, South Korea Flat Rock | Abroary In Secretary In Secreta | SERBORGE SERVERSE VERSEN SERVERSE SERVE | Sante | ES SE S | | |
| VIN Code A B D F G H K T W X Y R U V 8 6 | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne St. Thomas Wixom Hermosillo, Mexico Louisville Jefferson County Broadmeadows, Australia Sohari, South Korea Flat Rock | A POST A | STREET CAT SO STREET CAT STREET STREET CAT STREET STREET CAT STREET STREET CAT STREET MIV STREET ST | Faurus Taurus Sabe Sabe Sabe Sabe Sabe Jisginoen Rer Tisginoen Au LORIV SFI | SE S | | |
| VIN Code A B D F G H K T W X Y R U V 8 6 | Plant Location Atlanta Oakville Ohio Dearborn Chicago Lorain Kansas City Edison Wayne St. Thomas Wixom Hermosillo, Mexico Louisville Jefferson County Broadmeadows, Australia Sohari, South Korea Flat Rock | A POST OF THE PROPERTY OF THE | SERBORGE SERVERSE VERSEN SERVERSE SERVE | Sante | SS | | |



Med. Lt. Mocha Solid

DAJAXXA

DH

EXTERIOR PAINT COLOR CODES

| EXTERIO | R PAINT COLORS | | | | | | l Ro | 2450 |
|-------------|------------------------|---------|-----------|------|----------------------|------|---------|-------|
| <u>K2</u> 1 | BODY VR MI | _DG. | INT. TRIM | | TAPE R | S | AX | TR |
| LX | 4 YB | A | GB | | A 2 | В | 8 | T8888 |
| CODE | COLOR | SPEC | REF | CODE | COLOR | | SPEC | REF |
| AB | Sandlewood Spice C/C | AB8CWHA | M6448 | MQ | Electric Blue C/C M | | | T - |
| AH | Pastel Alabaster Solid | AHFAXXA | M6392 | MS | Smoke M | | YHWCXXA | M6598 |
| CD | Woodrose C/C | CEQEWHA | M6421 | MW | Bright Regatta Blue | M | KCWCXXA | M5979 |
| DA | Cayman C/C | PDYEWHA | M6487 | MX | Dark Shadow Blue N | VI . | KCZXXA | M6609 |
| DB | Lt. Mocha Solid | DAGAXXA | M6453 | MY | Steel Blue Frost C/C | M | - | _ |
| DC | Medium Mocha C/C | DATCWHA | M6450 | MZ | Stratosphere Blue | | _ | _ |
| DD | Mocha Frost C/C | DANEWHA | M6465 | NA | Dk. Tourmaline C/C | | MWYEWHA | M6572 |
| DF | M Aquamarine C/C | MDVEWHA | M6559 | NC | Med. Seafoam M C/ | С | MDWCWHA | M6478 |
| DG | Aquamarine Frost C/C | MDTEWHA | M6560 | PA | Deep Jewel Green C | C/C | PAWEWHA | M6414 |
| DΗ | Mand I & Months Called | DATAVVA | 140000 | 00 | Janual Casas NA | | DAMOVVA | 14045 |

M6608

PB

Jewel Green M

PAWCXXA

M6456

| DJ | Medium Mocha M | DATCXXA | M6520 | PC | Reef Blue M | PD9CXXA | M6585 |
|--------|------------------------------|----------|-------|----|----------------------------|---------|-------|
| DW | Dark Mocha M | DAZCXXA | M6477 | PD | Reef Blue C/C | PD9CWHA | M6565 |
| EA | Cardinal Red | <u> </u> | _ | PG | Marine Blue C/C | _ | |
| EC | Currant Red Solid | EAQAXXA | M6325 | PK | Chesapeake Blue M | KWYCXXA | M6584 |
| EG | Sandlewood Spice C/C | AB8CWHA | M6448 | PM | Brt. Calypso C/C | PESCWHA | M6599 |
| EH | Med. Cabernet Solid | 7DQAXXA | M6156 | PN | Aquamarine Frost C/C | MDREWHA | M6464 |
| EL | Wild Strawberry C/C | 7DTEWHA | M6342 | PP | Bright Yellow C/C | _ | |
| EM | Med. Red Solid | 7DNAXXA | M6153 | RC | Medium Platinum C/C | YBWCWHA | M6454 |
| EN | Medium Scarlet Solid | 7DVAXXA | M6236 | R4 | Black | _ | _ |
| EP | Vermilion Solid | EGRAXXA | M6346 | SB | Green Mica C/C M | _ | |
| ER | Dark Cranberry C/C | ERZEWHA | M6445 | SE | Aqua Solid | - · | |
| EW | Lt. Cranberry C/C | ERNCWHA | M6443 | SF | Evergreen Green C/C | _ | _ |
| EX | Medium Cranberry C/C | ERYCWHA | M6444 | SG | Bright Calypso Green C/C M | _ | _ |
| EY | Performance Red Solid | EBVAXXA | M6564 | UA | Ebony C/C | UAWAWHA | M6373 |
| E2 | Rio Red Tinted C/C | | _ | WB | Performance White | ZGFAXXA | M6547 |
| E4 | Vermilion C/C Solid | EGRAWHA | M6470 | wc | Medium Opal C/C | YCWCWHA | M6501 |
| E5 | Hot Red | <u> </u> | - | WH | Ultra Red Solid C/C | EWWAWHA | M6500 |
| E7 | Dk. Ruby Solid | EYYAXXA | M6549 | WJ | Opal Frost C/C | YCKEWHA | M6480 |
| GA | Medium Aubergine C/C | GAYEWHA | M6486 | WK | Opal Opalescent C/C | YCJGWHA | M6553 |
| GC | Iris C/C | HBWCWHA | M6635 | WL | Midnight Opal M C/C | YCZCWHA | M6566 |
| GD | L/Med. Aubergine C/C | GAWEWHA | M6555 | WP | Performance White | _ | _ |
| GH | Electric Red C/C M | _ | - | W3 | Dark Charcoal C/C | | _ |
| KA | Crystal Blue C/C | KAHCWHA | M6327 | YA | Polar White | _ | _ |
| KB | Medium Amethyst Frost | KNWEWHA | M6446 | YB | Plantinum C/C | - | _ |
| KE | Lapis Metallic C/C | KVWCWHA | M6563 | YC | Black Solid | JASAXXA | M1724 |
| KF | Bright Lapis C/C | KV8EWHA | M6561 | YD | Pastel Titanium Solid | YAHAXXA | M6239 |
| KH | Dk. Lapis M | KVZCXXA | M6556 | YF | Lt. Titanium C/C | YAHEWHA | M6330 |
| KJ | Bright Lapis C/C M | | - | YG | Med. Titanium C/C | YAWCWHA | M6442 |
| KL | Bimini Blue C/C M | | _ | YN | Silver C/C | ZJMCWHA | M6505 |
| KP | Newport Blue C/C | KK8CWHA | M6451 | YO | Oxford White Solid | WHFAXXA | M5920 |
| K2 | Atlantic Blue Solid | KAGAXXA | M6441 | YS | Silver | | _ |
| K3 | Bimini Blue M C/C | KAVCWHA | M6485 | YU | Deep Titanium C/C M | | - |
| LA | Medium Royal Blue C/C | LAYEWHA | M6504 | YX | Titanium Frost C/C | YUKEWHA | M6401 |
| MA | Lt. Crystal Blue C/C | MAJEWHA | M6328 | YY | White | JW7AXXA | M6210 |
| MC | Lt. Smoke M | YHPLXXA | M6597 | YZ | White C/C | 4WFAWHA | M6466 |
| MD | Clear Crystal Blue Frost C/C | MAKEWHA | M6415 | Y4 | Black | _ | - |
| ME | Med. Regatta Blue C/C | 5BJCWHA | M6263 | Y8 | White | | _ |
| MK | Twilight Blue C/C | 8B9EWHA | M6290 | ZC | Glacier White Solid | ZBFAXXA | M6406 |
| MM | Ultra Blue C/C | METEWHA | M6383 | (£ | Aqua Solid | PBNAXXA | M6483 |

Note: C/C is Clear Coat M is Metallic

CY3052-E

① Paint code not available at time of publication.

IDENTIFICATION CODES (Continued)

BODY TYPE CODES ORDER

| ERIOR PAINT | | | | | | | | F0276 R0141 482450 DSO |
|-------------|----|-------|-----------|------|---|---|----|---------------------------------|
| BODY | VR | MLDG. | INT. TRIM | TAPE | R | S | AX | TR |
| LX4 | YB | [A] | GB | A | 2 | В | 8 | твввв |

| LINE (SERIES) | CODE | COLOR (COMPONENTS) | SPEC BER BARRET |
|-------------------------|---------|---|-----------------------------|
| faurus (L) | D | Med. Opal (Bumper B.S. Midg.) | YCWCXXG/YCWCAXG |
| faurus (L) | Z | Med. Gray | ZDNCXXG/ZDNCAXG |
| Taurus (L) | а | Black (Paint Stripes) | JASAXXX |
| Taurus (L) | Ь | Med. Blue | NBMAXXX |
| Taurus (L) | d | Cranberry | ERWAXXX |
| Taurus (L) | р | Lt. Charcoal | GPUAXXX |
| Taurus (L) | w | Mauve tanO beit | GFQAXXX |
| Taurus (Ľ) | z | Dk. Mocha | DAWAXXX |
| Taurus (L) | | Med. Royal Blue (Rocker Pnl. Mldg.) | LAYEWHA (32) BESS (113) BU |
| Taurus (L) | 3 | Silver Met. Jank (Lagrand DelV) | ZJMĆWHA |
| Taurus (L) | 9 | Med. Aubergine | GAYEWHA |
| Taurus (L) | A | Ebony Regulation (1) 2 and (1) | UAWAWHA |
| Taurus (L) | E | Cir. Cry. Blue Frost | MAKEWHA |
| Taurus (L) | G | Med. Opal | YCWCWHA |
| Taurus (L) | S. S. H | Mocha Frost | DANEWHA |
| | SS N | Med. Cranberry | ERYCWHA (30) 810884 (30) 83 |
| Taurus (L) | VS MALT | Med. Seafoam Met. | MDWCWHA |
| Taurus (L) | w | Oxford White Solid | 4WFAXXA |
| Taurus (LX), Sable (LS) | | Med. Royal Blue (Bmpr., Rocker, Cladding) | LAYEWHA, ZDNCXXG |
| Taurus (LX), Sable (LS) | 3 | Silver Met. | ZJMCWHA, ERWAXXG |
| Taurus (LX), Sable (LS) | 9 | Med. Abergine | GAYEWHA, ZDNCXXG |
| Taurus (LX), Sable (LS) | A | Ebony Ebony | UAWAWHA, ZDNCXXG |
| | E | Cir. Cry. Blue Frt. | MAKEWHA, KATCXXG |
| | G | Med. Opal | YCECWHA, ZDNCXXG |
| | 7034 H | Mocha Frost | DANEWHA, GFRCXXG |
| Taurus (LX), Sable (LS) | N | Med. Cranberry | ERYCWHA, YOYAXXG |
| | T. | Med. Seafoam Met. | MDWCWHA, GFQCXXG |
| Taurus (LX), Sable (LS) | W | Ox. White | 4WFAXXA, ERWAXXG |
| Taurus (LX), Sable (LS) | а | Black (Paint Stripes) | JASAXXX (ORSA) |
| | b | Med. Blue | NBMAXXX |
| Taurus (LX), Sable (LS) | d | Cranberry | ERWAXXX (Usa) |
| | р | Lt. Charcoal | GPUAXXX |
| Taurus (LX), Sable (LS) | w | Mauve | GFQAXXX |

CY4235-A

F0276 R0141

GPUAXXX

GFQAXXX

DAWAXXX

MAKEWHA

4WFAXXA

UAWAWHA

LAYEWHA

GAYEWHA

YCWCWHA

ZJMCWHA

ERYCWHA

MDWCWHA

DANEWHA

LAYEWHA

4WFAXXA

ZJMCWHA

EWWAWHA

PAWEWHA

UAWAWHA

IDENTIFICATION CODES (Continued)

Taurus (GL), Sable (GS)

Taurus (SHO)

Taurus (SHO)

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Lt. Charcoal

Dk. Mocha

Oxford White Solid

Med. Royal Blue

Med. Aubergine

Med. Cranberry

Med. Seafoam Met.

Med. Opal

Silver Met.

Mocha Frost

Oxford White

Dp. Jewel Green

Silver

Ultra Red

Ebony C/C

Mauve

Ebony

BODY TYPE CODES ORDER

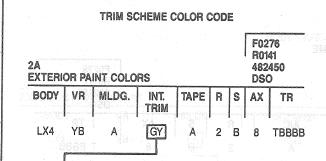
| 2A EXTERIOR PAINT COLORS | | | 482450 DSO |
|--|-------------------|--|-------------------------------------|
| BODY VR | MLDG. | INT. TRIM | R S AX TR |
| LX4 138 YB | Q | GB GOME A | 2 B 8 TBBBB |
| LINE (SERIES) | CODE | COLOR (COMPONENTS) | 2QD2 SPEC Bidgasea |
| Taurus (LX), Sable (LS) Taurus (GL), Sable (GS) | 200 z 1 | Dk. Mocha Med. Royal Blue (Bmpr., B.S. Mldg.) | DAWAXXX LAYEWHA/LAYEAXA, ZDNCXXG |
| Taurus (GL), Sable (GS) | 3 | Silver Met. | ZJMCWHAZJMCAXA, ERWAXXG |
| Taurus (GL), Sable (GS) | 9 | Med. Abergine | GAYEWHA/GAYEAXA, ZDNCXXG |
| Taurus (GL), Sable (GS) | Α | Ebony | UAWAWHA/UAWAAXA, ZDNCXXG |
| Taurus (GL), Sable (GS) | Ε | Clr. Cry. Blue Frt. | MAKEWHA/MAKEAXA, KATCXXG |
| Taurus (GL), Sable (GS) | G | Med. Opal | YCECWHA/YCWCAXA, ZDNCXXG |
| Taurus (GL), Sable (GS) | H. | Mocha Frost | DANEWHA/DANEAXA, GFRCXXG |
| Taurus (GL), Sable (GS) | N | Med. Cranberry | ERYCWHA/ERYCAXA, YOYAXXG |
| Taurus (GL), Sable (GS) | T | Med. Seafoam Met. | MDWCWHA/MXWCAXA, GFQCXXG |
| Taurus (GL), Sable (GS) | w | Ox. White | 4WFAXXA/4WFAAXA, ERWAXXG |
| Taurus (GL), Sable (GS) | а | Black (Paint Stripes) | JASAXXX |
| Taurus (GL), Sable (GS) | b | Med. Blue | NBMAXXX |
| Taurus (GL), Sable (GS) | d | Cranberry | ERWAXXX |
| | | † | |

Clr. Cry. Blue Frt. (Rock Pnl. Mldg.)

Med. Royal Blue (Bmpr., Rock., Cladding)

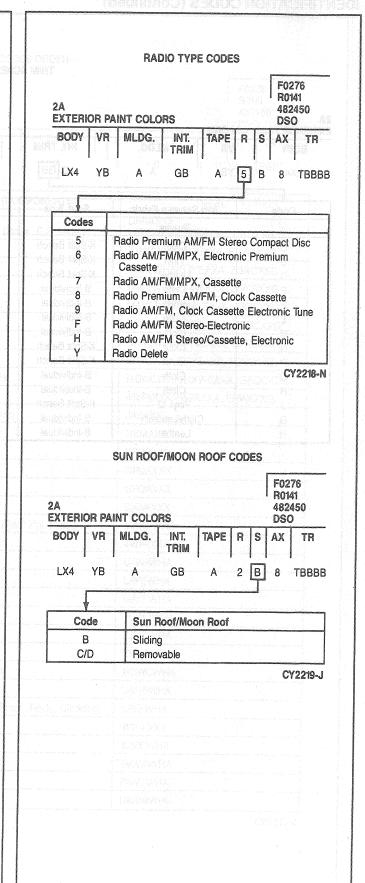
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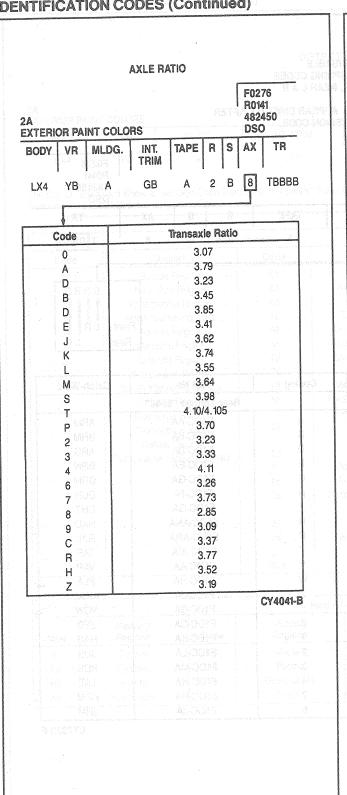
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| | | | | | 482450 |
| 2A EXTERIOR PAINT C | OLORS | | | | DSO |
| BODY | VR MLDG. | INT. TRIM | A/C | R S AX | |
| LX4 | YBA BO A A | D GB | A | 2 B 8 | T BBBB |
| Code | Trim Scheme Fabric | Seat Type | Code | Trim Scheme Fabric | Seat Type |
| | Taurus | | | Sable | |
| C | Cloth | K-Split Bench | S | Cloth | K-Split Bench |
| В | Vinyl | K-Split Bench | Y | Vinyl Leather | K-Split Bench K-Split Bench |
| D | Leather Cloth | K-Split Bench B-Individual | v | Cloth | B-Individual |
| Ę | Leather 1 | B-Individual | X | Leather | B-Individual |
| L | Cloth | B-Individual | | | |
| М | Cloth | B-Individual | | | |
| . N | Cloth Cloth | K-Split Bench K-Split Bench | | | |
| C C | Cloth | B-Individual | | | |
| R | Cloth | B-Individual | | | |
| J | Vinyl 12 | K-Split Bench | | | |
| G H | Cloth/Leather Leather | B-Individual B-Individual | | | |
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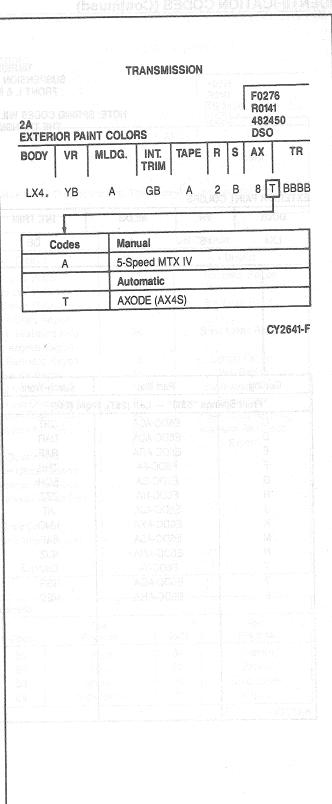


| Code | Trim Color | |
|------|-------------------|-----------------|
| Н | Mocha | |
| l t | Cranberry | |
| J | Ebony | |
| Т | Light Titanium | |
| Υ | Shadow Blue | |
| В | Crystal Blue | |
| A | Titanium | |
| G | Lt/Dk Titanium | |
| Р | Light Sandalwood | |
| D | Scarlet Red | |
| E | Gray | |
| F | Currant | |
| 6 | Med Opal | Da Wasi |
| U | O Wht/Lt Titanium | |
| Q | O Wht/S Blue | |
| L | O Wht/Titanium | |
| Z | Oxford White | , Francisky |
| N | O Wht/Scarlet | - Alins Ariston |
| 3 | Red | |
| 4 | O Wht/Cranberry | |
| R | Ruby | |
| V | Lapis | £ 04.0ay.8i |
| M | Aquamarine | |
| Х | O Wht/Med Opal | |
| W | O Wht/Evergreen | |
| K | O Wht/Ruby | |

CY2844-G







TAURUS/SABLE SUSPENSION SPRING CODES FRONT L & R, REAR L & R

NOTE: SPRING CODES WILL APPEAR DIRECTLY AFTER THE TRANSMISSION CODE.

2A EXTERIOR PAINT COLORS

F0276 R0141 482450 DSO

| BODY | VR | MLDG. | INT. TRIM | TAPE | R | S | AX | TR |
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| LX4 | YB | Α | GB | A | 2 | В | 8 | ТВВВВ |

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Front LR

| Coding | Part No. | Catch-Word | Coding | Part No. | Catch-Word |
|--|---------------------------|-------------|----------|----------|------------|
| Front Spri | ings "5310" — Left (267), | Right (268) | | | |
| С | E6DC-ACA | CRT | Α | E6DC-AA | ARM |
| D | E6DC-ADA | DAR | В | E6DC-BA | BRM |
| Ε | E6DC-ARA | RAF | D | F1DC-DA | ARG |
| F | E6DC-FA | TRS | E | F1DC-EA | BRN |
| G | E6DC-GA | SCH | G | E6DC-GA | GRM |
| Н | E6DC-HA | 777 | н | F1DC-FA | DUN |
| J | E6DC-AJA | JIT | j | F1DC-GA | EMT |
| K | E6DC-AKA | кмо | N | E6DC-ANA | NAD |
| M | E6DC-ASA | SAF | R | E6DC-ARA | RAL |
| N | E6DC-ANA | NUZ | T | E6DC-ATA | TAF |
| T | E6DC-TA | CIA | v | F1DC-AA | VAP |
| 7 | E6DC-AGA | GSR | w I | F1DC-HA | FLA |
| 8 | E6DC-AHA | HEC | x | F1DC-JA | GOV |
| | | | Υ | F1DC-BA | YOW |
| | | | Z | F1DC-CA | ZED |
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| | | | 2 | F1DC-LA | JUS |
| | | | 3 | F1DC-MA | КОВ |
| | | | 4 | F1DC-NA | LAT |
| | | | 7 | E6DC-HA | HRM |
| | | | 8 | E6DC-JA | JRM |

CY2833-F

DISTRICT CODES

F0276 R0141 [48] 2450 [DSO]— 2A EXTERIOR PAINT COLORS TAPE S AX INT. TRIM MLDG. BODY 2 В 8 твввв Α DD YD Α LX4

The D.S.O. Space will Show a Two Digit Code Number of the District Sales Office Which Ordered the Unit. This Code will Appear on all Units, Domestic — Special Order — Export — Etc.

| | Ford Div | ision | | | L-M Division |
|-------------|----------------------------|-------|---------------------------|------|---------------------|
| Code | District | Code | District | Code | District |
| 11 | Boston Region | 52 | Dallas Region | 36 | Northeast Region |
| 13 | New York Region | 53 | Kansas City Region | | |
| 16 | Philadelphia Region | 56 | Denver Region | 38 | Southeast Region |
| | North Marketing Area | 58 | Twin Cities Region | | |
| ** 19 21 | Atlanta Region | 59 | Cental Marketing Area | 64 | Great Lakes Region |
| 23 | Memphis Region | 71 | Los Angeles Region | | |
| | Orlando Region | 72 | San Francisco Region | 73 | Central Region |
| 24 27 | Washington Region | 74 | Seattle Region | 75 | West Region |
| | South Marketing Region | 79 | West Marketing Area | 78 | Southwest Region |
| 29 41 | Chicago Region | 81 | Ford Home Office/Mazda | 83 | Government |
| | Pittsburgh Region | Ü | Constant Dealer Code | 84 | Home Office Reserve |
| 44 | Cincinnati Region | 82 | Nissan for 1993 | 85 | American Red Cross |
| 47 | Detroit Region | | | 90's | Export |
| 48 | Great Lakes Marketing Area | 83 | Government | | |
| 49 | Great Lakes Marketing Area | 84 | Home Office Reserve | | |
| | | 85 | American Red Cross | | |
| | | 86 | Recreational Vehicle Pool | | |
| | | 87 | Body Company | | |
| | | 89 | Transportation Services | | |
| | | 90's | Export | | |

| | | | Ford (| Of Canada | | _ | |
|----------------|-----------------------------------|----------|--------------------|-----------|------------------------|----------|-----------------------|
| Code | Mercury Regions | Code | Mercury Regions | Code | Ford Regions | Code | Ford Regions |
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| A2 A3 A4 | Eastern Atlantic Midwestern | A7 A8 | Great Lakes Export | B3 B4 | Atlantic Midwestern | B8 11 | Great Lakes Export |

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| Vehicle | Engine Serious Seriou | T50D | MTX | M5R2 | 3-04 3-04 3-04 3-04 | AODE | AODEW | AXODE (AX4S) | AALD | 4E>T | 2 | Integral (7.5) | Traction-Lok (7.5) | Integral (8.8) | Traction-Lok (8.8) | Transaxle |
| Festiva | 1.3L OHC MFI | | 0 | | | | | | | | 0 | | | | | 0 |
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| Escort/Tracer | 1.8L DOHC MFI | | 0 | | | | | | | 0 | | | | | | 0 |
| | 1.9L OHC SFI | | 0 | | | | | | | 0 | | | | | | 0 |
| Probe | 2.0L DOHC MFI | | 0 | | | | | | | 0 | | | | | | 0 |
| | 2.5L DOHC MFI | | 0 | | | | | | | 0 | | | | | | 0 |
| Tempo/Topaz | 2.3L HSC SFI | | 0 | | | | | | | | 0 | | | | | 0 |
| i i jakond neegsa arigid - Valandad meegsa arigid | 3.0L OHV SFI | | • | | | | | | | | 0 | | | | | 0 |
| Taurus/Sable | 3.0L OHV SFI | | | | | | | 0 | | | | | | | | 0 |
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| | 3.2L DOHC SFI | | | | | | | 0 | | | _ | | - | <u> </u> | | 0 |
| | 3.8L SFI | | | | | | | 0 | | | | | | <u> </u> | - | 0 |
| Mustang | 2.3L OHC MFI | 0 | | | | | | | 0 | | | 0 | | | | |
| | 5.0L SFI HO | 0 | | | 0 | | | | | - | 4 | | | 0 | | H |
| Thunderbird/Cougar | 3.8L SFI | | | | 0 | | | | | | | 0 | 0 | - | | - |
| gur ei melet de satify man eine de s atify. August aus einem einer satify melet me | 3.8L SFI SC① | | | 0 | 0 | | | | | | - | 0 | 0 | 0 | 0 | - |
| | 5.0L MFI HO | | | ota | 0 | | | | | | | | | 0 | 0 | - |
| Mark VIII | 4.6L 4V SFI | | | | | | | | | | | | | | | |
| Continental | 3.8L SFI | | | | | | | 0 | | | - | - | | | | 0 |
| Town Car Crown Victoria/Grand Marquis | 4.6L 2V SFI | | | | | | | | | | | | | 0 | © CY2 | L |

SECTION 00-02 Lifting, Jacking, Spare Tire Stowage and Emergency Towing

| SUBJECT | PAGE | SUBJECT | PAGE |
|---|---------|---|---------|
| HOISTING AND JACKING Hoist, Drive-On | 00-02-1 | TOWING Flatbed Towing | |
| Hoist, Frame Contact Hoisting Instructions | 00-02-2 | Front—T-Hook Procedure | |
| Jack, Floor | 00-02-1 | Preparatory StepsRear — T-Hook Procedure | 00-02-4 |
| TIRE STOWAGE Spare Tire | 00-02-4 | Towing Slings Towing Speeds VEHICLE APPLICATION | 00-02-2 |

VEHICLE APPLICATION

Taurus / Sable and Taurus SHO.

HOISTING AND JACKING

Jack, Floor

CAUTION: The service jack provided with the vehicle is only intended to be used in an emergency for changing a deflated tire. Never use the service jack to hoist the vehicle for any other service. Refer to the Owner Guide when using the jack supplied with the vehicle.

When using a floor jack, raise the front of the vehicle by positioning a floor jack under either the subframe or body side rail behind the engine support bracket. The rear may be lifted by positioning a floor jack under either rear suspension body bracket.

CAUTION: Under no circumstances should the vehicle ever be lifted by the front or rear control arms, halfshafts or CV joints. Severe damage to the vehicle could result.

Hoisting Instructions

For hoisting and lifting locations, refer to the illustration in Hoist, Frame Contact.

CAUTION: Do not allow the adapters to contact the CV joints steering linkage, suspension arms, stabilizer bar, or compress the stabilizer bar link insulators. Damage to suspension, exhaust and/or steering linkage components may occur if care is not exercised when positioning the hoist adapters of two-post hoists prior to lifting the vehicle.

If a two-post hoist is used to lift a front-wheel drive vehicle, place adapters under front body rail, behind the suspension arm-to-body bracket.

Hoist, Drive-On

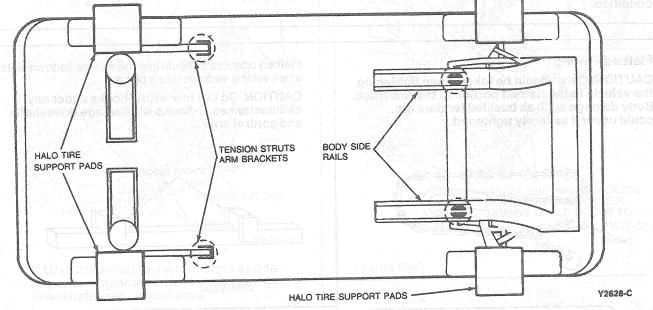
To prevent possible damage to the underbody, do not drive the vehicle onto the drive-on hoist without first checking for possible interference between the upright flanges of the hoist rails and the underbody. Should there be interference, the hoist flanges should be modified as necessary and/or the approach ramps built up to provide the necessary clearance.

00-02-2

HOISTING AND JACKING (Continued)

Hoist, Frame Contact
CAUTION: All four contact points must contact
the adapters.

On frame contact hoists, adapters are necessary to
lift the vehicle. The adapters must be placed at four
contact points. Position the adapters so they are
centered on the adapter contact area.



NOTE: Ensure lifting pad clears catalytic converter bracket on passenger side.

On front-wheel drive vehicles, the rear contact points are forward of the tie rod body brackets.

Exercise care when hoisting vehicles equipped with catalytic converter(s). On vehicles so equipped, ensure necessary clearance between hoist and exhaust system components before energizing hoist.

On front-wheel drive vehicles, do not allow the adapters to contact the rear tie rod.

TOWING

Preparatory Steps

Release the parking brake, and place transaxle in NEUTRAL. As a general rule, vehicles should be towed with the driving wheels off the ground. If the vehicle is to be towed on its drive wheels, the transaxle and differential must be operable. If not, place the wheels on a dolly.

When a vehicle is towed on its front wheels, the steering wheel must be clamped in the straight-ahead position with a steering wheel clamping device designed for towing service use, such as those provided by towing system manufacturers.

Position towbar behind lower valance panel but forward of air conditionar confidence brooking.

Do not use the vehicle's steering column lock, to lock the wheels in a straight-ahead position when pulled from the rear. If the ignition key is not available, place a dolly underneath the driving wheels of the vehicle and tow with the non-driving wheels raised.

Towing Slings

CAUTION: Hooks, chains, slings or other towing attachments must not be connected to or touch the front suspension tension strut. Suspension damage may occur.

To avoid possible damage to bumper systems or lower body panels, a wide-belt sling should be used to lift and tow all vehicles. When attaching towing slings, take care to avoid damage to license plate and frame, fog lamps and air dam.

The suggested towing hookups are illustrated.

Towing Speeds

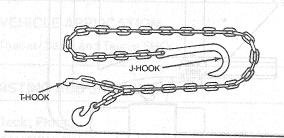
When it is necessary to tow the vehicle with the driving wheels on the ground, do not exceed 56 km/h (35 mph) and/or a distance of 80 km (50 miles) or transaxle damage can result (automatic transaxle).

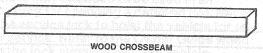
TOWING (Continued)

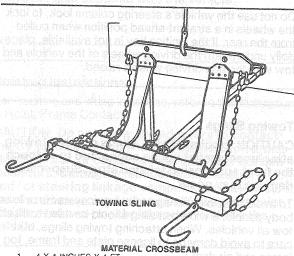
Towing speed is to be limited to 80 km/h (50 mph) with the driving wheels off the ground. On rough pavement, the maximum towing speed is 56 km/h (35 mph). Maximum towing speed of 56 km/h (35 mph) should be used whenever the tow truck operator is not certain of road surface condition.

Flatbed Towing

CAUTION: Care should be taken when tightening the vehicle to the flatbed portion of the tow truck. Body damage such as buckled fenders etc., could occur if severely tightened.





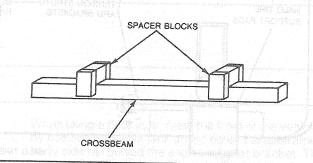


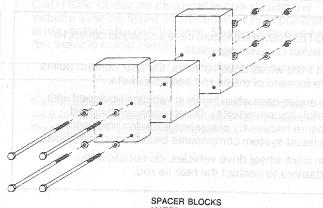
4 X 4 INCHES X 4 FT

1 - 4 X 4 INCHES X 5 FT

2 X 4 LUMBER ACTUALLY MEASURES 1-1/2 INCHES X 3-1/2 INCHES 4 X 4 LUMBER ACTUALLY MEASURES 3-1/2 INCHES X 3-1/2 INCHES Flatbed operators should use the vehicle tiedown slots when vehicle tiedown takes place.

CAUTION: Do not tow with J-hooks under any circumstances. J-hooks will damage driveshafts and control arms.





MATERIAL: 4-2 x 4 x 6" LONG 2- 4 x 4 x 3-1/2" LONG 8- 1/4" x 7" CARRIAGE BOLT

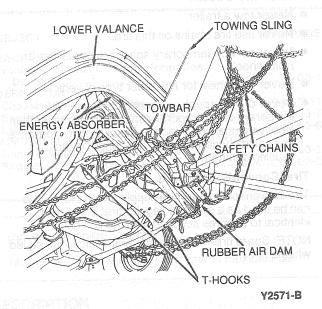
Front—T-Hook Procedure

CAUTION: Use care not to damage fog lamps on vehicles if equipped. It is recommended that wheel lifts or flatbed equipment be used to avoid fog lamp damage.

- 1. Insert T-hooks in T-hook slots located on bottom of frame rail forward of front wheels.
- Position a 4-foot 4 X 4 under radiator support, just behind rubber air dam.
- Position towbar behind lower valance panel but 3. forward of air conditioner condenser brackets.

TOWING (Continued)

4. Attach safety chains around lower control arms.



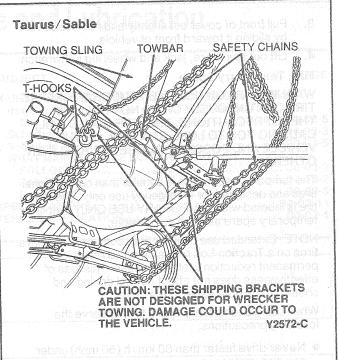
CAUTION: Do not tow with J-Hooks under any circumstances. J-Hooks will damage driveshafts and control arms.

CAUTION: Placing towing chains on the transverse suspension arms will result in vehicle damage.

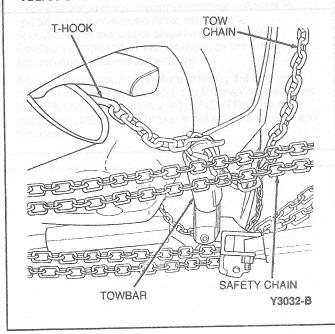
Rear-T-Hook Procedure

CAUTION: It is recommended that these vehicles be towed from the front unless conditions do not allow it.

- Insert T-hooks in T-hook slots on inner part of frame rail, behind rear tires.
- 2. Position towbar underneath bumper.
- 3. Attach safety chains around lower rear control arms.



Taurus SHO



TIRE STOWAGE

Spare Tire

NOTE: Spare tire is located in luggage compartment, except station wagon which is located in left rear trim panel for temporary spare tire and located in back of wagon for conventional spare tire.

- 1. Twist two fasteners 90 degrees into vertical position.
- Lift handle at bottom of cover to disengage retainers.

TIRE STOWAGE (Continued)

- Pull front of cover out slightly and remove cover by sliding it toward front of vehicle.
- 4. Lift out spare tire, jack and wheel lug nut wrench.

Tire, Temporary Spare

WARNING: IF YOU USE THE TEMPORARY SPARE TIRE CONTINUOUSLY OR DO NOT FOLLOW THESE PRECAUTIONS, THE TIRE COULD FAIL, CAUSING YOU TO LOSE CONTROL OF THE VEHICLE AND POSSIBLY INJURE YOURSELF OR OTHERS.

The temporary spare tire is smaller than conventional tires and designed for emergency use only. The spare tire is labeled with TEMPORARY USE ONLY. Replace temporary spare as soon as possible.

NOTE: Extended use of other than conventional spare tires on a Traction-Lok rear axle could result in a permanent reduction in effectiveness. This loss of effectiveness does not affect normal driving and should not be noticeable to the driver.

When using a temporary spare tire, observe the following precautions:

 Never drive faster than 80 km/h (50 mph) under any circumstances.

- Never exceed the maximum vehicle load rating listed on tire decal.
- Never tow a trailer.
- Never use tire chains on this tire.
- Never service temporary spare tire or remove it from wheel.
- Never use wheel for any other type of vehicle.
- Never drive through automatic car wash with temporary tire. Temporary spare tire is smaller than a conventional tire, which reduces ground clearance and could cause vehicle to get caught in the rails causing damage.

Tire, Conventional Spare

The conventional spare tire supplied with the vehicle can be used as a spare or regular tire. This tire is identical to the tires supplied with the vehicle.

NOTE: Spare tire wheel may differ if vehicle has styled wheels.

per— i ersek erseedine AUTION: A le codenmented that these vehicles e cowed from the front miless conditions do not flow it.

Insert i Fraoks in Th**ock stots on innetso**nt et frame rail, beinne reactires

Fosition towbar underneath bumper.

Attack eatery chains around lower rear cordinal.

Inder Tracoks in Track issue, focation is deliced of the trip can formulate of the wheleve. Produced without it is a verse delegate a product

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1993 Taurus / Sable July, 1992

SECTION 00-03 Maintenance and Lubrication

| SUBJECT | PAGE | SUBJECT | PAGE |
|---|-------------------------------|---|--|
| DESCRIPTION Vehicle Emission Control Information Decal LUBRICATION Chassis Lubrication Points Engine Lubrication Service Points Lubrication Charts MAINTENANCE SCHEDULE AND RECORD LOG General Maintenance Information Regular Maintenance Intervals | 0-03-11 00-03-7 00-03-6 | MAINTENANCE SCHEDULE AND RECORD LOG (C Regular Maintenance Intervals For Schedule B | 00-03-5 00-03-5 00-03-2 00-03-3 00-03-11 |

VEHICLE APPLICATION

Taurus / Sable, Taurus SHO and Taurus Flexible Fuel.

DESCRIPTION

The Emission Systems Required Maintenance Schedule lists the items required to maintain the vehicle emission systems at levels determined by the Federal Government (Environmental Protection Agency). Also printed is an index to a number of Maintenance Procedures, each of which is related to an item listed on the maintenance schedule. Use these procedures to perform the required emission system maintenance items listed on the maintenance schedules.

Maintenance service adjustments must conform to specifications contained here, listed in the Specifications manual or shown on the Vehicle Emission Control Information Decal, or the emissions system may become inoperative.

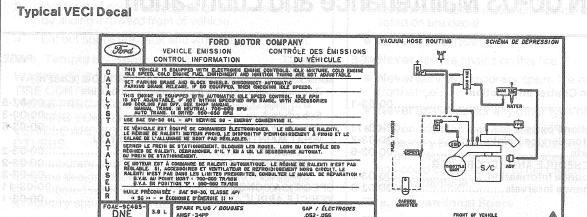
As a safety precaution, before starting the engine to perform maintenance, ensure the transaxle selector is in PARK (automatic transaxle) or NEUTRAL (manual transaxle), the parking brake is set and the wheels are blocked.

Vehicle Emission Control Information Decal

Vacuum hoses on the engine use a color stripe to aid in hose routing checks. The stripe will usually be the same color as on the Vehicle Emission Control Information (VECI) decal, but the correct vacuum hose routing must be verified by using the correct component connections shown on the VECI decal.

1993 Taurus / Sable July, 1992

DESCRIPTION (Continued)



A14934-A

MAINTENANCE SCHEDULE AND RECORD LOG

General Maintenance Information

The required Scheduled Maintenance Services listed in this chapter are considered essential to the proper operation, safety and performance of your FORD MOTOR COMPANY vehicle. We recommend that you also perform the Owner Maintenance Checks listed. These services are matters of day-to-day care that are also important to the proper operation of your vehicle. The recommended lubricants, fluids and service parts conforming to Ford Specifications are available from your dealer.

Maintenance: an investment

An investment which will pay dividends in the form of improved reliability, durability, and resale value.

TO ASSURE THE DURABILITY OF YOUR VEHICLE AND ITS EMISSION CONTROL SYSTEMS IT IS **NECESSARY THAT SCHEDULED MAINTENANCE** BE PERFORMED AT THE DESIGNATED INTERVALS.

FORD RECOMMENDS THE USE OF GENUINE FORD REPLACEMENT PARTS, YOU MAY HOWEVER, ELECT TO HAVE MAINTENANCE REPLACEMENT, OR REPAIR OF THE EMISSIONS CONTROL DEVICES AND SYSTEMS (THE COST OF WHICH IS NOT COVERED BY WARRANTY) PERFORMED BY ANY AUTOMOTIVE REPAIR ESTABLISHMENT OR INDIVIDUAL AND MAY ELECT TO USE OTHER THAN FORD SERVICE PARTS FOR SUCH MAINTENANCE OR REPAIR. IF OTHER THAN FORD OR MOTORCRAFT PARTS OR FORD AUTHORIZED, REMANUFACTURED PARTS ARE USED FOR MAINTENANCE REPLACEMENTS OR FOR THE SERVICE OF COMPONENTS AFFECTING EMISSIONS CONTROL, THE OWNER SHOULD ASSURE HIMSELF THAT SUCH PARTS ARE WARRANTED BY THEIR MANUFACTURER TO BE EQUIVALENT TO GENUINE FORD MOTOR COMPANY PARTS IN PERFORMANCE AND **DURABILITY. PLEASE CONSULT YOUR** WARRANTY BOOKLET FOR COMPLETE WARRANTY INFORMATION.

FRONT OF VEHICLE

A

WHAT MAINTENANCE SCHEDULE DO YOU FOLLOW?

SCHEDULES ARE BASED ON HOW YOU DRIVE YOUR VEHICLE.

Schedule A

Follow Maintenance Schedule A if your driving habits MAINLY include one or more of the following conditions:

- Short trips of less than 10 miles (16 km) when outside temperatures remain below freezing.
- Operating during hot weather in stop-and-go "rush hour" traffic.
- Towing a trailer or using a car-top carrier.

- Operating in severe dust conditions.
- Extensive idling, such as police, taxi or door-to-door delivery service.

Schedule B

Follow Maintenance Schedule B if, generally, you drive your vehicle on a daily basis for more than 10 miles (16 km) and NONE OF THE CONDITIONS NOTED ABOVE APPLY TO YOUR DRIVING HABITS.

Schedule A Planting had been out a sum ood, the

SERVICE INTERVALS — PERFORM AT THE DISTANCES OR MONTHS SHOWN, WHICHEVER OCCURS FIRST.

NOTE: Items for Emission Control Service are shown in this type and style.

FOR ITEMS MARKED WITH A NUMBER IN PARENTHESES SUCH AS (1), SEE FOOTNOTE AT THE END OF THIS SECTION.

NOTE: Schedule A provides maintenance intervals for replacing your air cleaner filter if you drive in severe dust conditions. However, the conditions you drive in may require even more frequent air cleaner replacement intervals than those shown. Check with your Dealer.

EVERY 3 MONTHS/3,000 MILES

 Oil and oil filter changes are for ALL engines (3.8L, 3.0L, 3.0L FF, 3.0L SHO and 3.2L SHO).

ONCE A YEAR

 Check engine coolant protection, hoses and clamps.

EVERY 36 MONTHS

Replace engine coolant. Page 11 ONE 110 (1998 1909)

CAUTION: Engine oil, spark plugs and fuel filters for the flexible fuel vehicle (FF) are unique and not to be substituted with gasoline engine components.

NOTE: Replace FF fuel filters as required.

NOTE: Kilometers intervals are rounded off.

Regular Maintenance Intervals

3,000 MILES (5 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

6,000 MILES (9 500 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Rotate tires.

9,000 MILES (14 500 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

12,000 MILES (19 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

15,000 MILES (24 000 Kilometers)

Change engine oil and oil filter every 3,000 miles
 (5 000 km) or 3 months.

18,000 MILES (29 000 Kilometers)

Change engine oil and oil filter every 3,000 miles
 (5 000 km) or 3 months.

21,000 MILES (34 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles
 (5 000 km) or 3 months.
- Rotate tires.

24,000 MILES (39 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles
 (5 000 km) or 3 months.
- Check battery fluid level (SHO only) every 24 months.

27,000 MILES (43 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

30,000 MILES (48 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Replace engine coolant every 30,000 miles (48 000 km) or 36 months.
- Replace spark plugs 3.8L V-6, 3.0L FF (except 3.8L California).
- Replace air cleaner filter—(all engines). (1)
- Inspect exhaust heat shields.
- Change automatic transaxle fluid. (2)
- Inspect disc brake pads and rotors (front)—(4-wheel disc, if equipped). (3)
- Inspect brake linings and drums (rear). (3) (4)

33,000 MILES (53 000 Kilometers)

Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

36,000 MILES (58 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Rotate tires.

39,000 MILES (63 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

42,000 MILES (67 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

45,000 MILES (72 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

48,000 MILES (77 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Check battery fluid level (SHO) every 24 months.

51,000 MILES (82 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Rotate tires.

54,000 MILES (87 000 Kilometers)

Change engine oil and oil filter every 3,000 miles
 (5 000 km) or 3 months.

57,000 MILES (92 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

60,000 MILES (96 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Replace engine coolant every 30,000 miles (48 000 km) or 36 months.
- Replace PCV valve—all engines.
- Replace spark plugs—3.8L; 3.0L, 3.0L FF;
 (3.0L/3.2L SHO platinum plugs).
- Inspect accessory drive belt(s).
- Replace air cleaner filter—3.8L, 3.0L, 3.0L FF, 3.0L SHO/3.2L SHO. (1)
- Replace cam belt and adjust valve lash (3.0L/3.2L SHO only),
- Inspect exhaust heat shields.
- Change automatic transaxle fluid. (2)
- Inspect disc brake pads and rotors (front) (4-wheel disc if equipped). (3)
- Inspect brake linings and drums (rear). (3) (4)

63,000 MILES (101 300 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

66,000 MILES (106 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Rotate tires.

69,000 MILES (111 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

72,000 MILES (116 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

75,000 MILES (121 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

78,000 MILES (125 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

81,000 MILES (130 300 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Rotate tires.

84,000 MILES (135 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

87,000 MILES (140 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

90,000 MILES (145 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 36 months.
- Replace engine coolant every 30,000 miles (48 000 km) or 36 months.
- Replace spark plugs 3.8L V-6, 3.0L FFV (except 3.8L California).
- Inspect accessory drive belt(s).
- Replace air cleaner filter all engines. (1)
- Inspect exhaust heat shields.
- Change automatic transaxle fluid. (2)
- Inspect disc brake pads and rotors (front)—(4-wheel disc, if equipped). (3)
- Inspect brake linings and drums (rear). (3) (4)

93,000 MILES (150 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

96,000 MILES (154 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Rotate tires.

99,000 MILES (159 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

102,000 MILES (164 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

105,000 MILES (169 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

108.000 MILES (174 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Check battery fluid level (SHO) every 24 months.

111,000 MILES (179 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Rotate tires.

114,000 MILES (183 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

117,000 MILES (188 000 Kilometers)

 Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.

120,000 MILES (193 000 Kilometers)

- Change engine oil and oil filter every 3,000 miles (5 000 km) or 3 months.
- Replace engine coolant every 30,000 miles (48 000 km) or 36 months.
- Replace PCV valve all engines.
- Replace spark plugs—3.8L; 3.0L, 3.0L FFV; (3.0L/3.2L SHO platinum plugs).
- Inspect accessory drive belts(s).
- Replace air cleaner filter—3.8L, 3.0L, 3.0L FFV, 3.0L SHO/3.2L SHO.
- Replace cam belt and adjust valve lash (3.0L/3.2L SHO only).
- Inspect exhaust heat shields.
- Change automatic transaxle fluid. (2)
- Inspect disc brake pads and rotors (front) (4-wheel disc if equipped). (3)
- Inspect brake linings and drums (rear). (3) (4)
- If operating in severe dust, more frequent intervals may be required. Consult your dealer.
- (2) Change automatic transaxle fluid if your driving habits frequently include one or more of the following conditions:
 - Operation during hot weather (above 90°F, 32°C), carrying heavy loads and in hilly terrain.
 - Towing a trailer or using a car-top carrier.
 - Police, taxi or door-to-door delivery service.
- (3) If your driving includes continuous stop-and-go driving or driving in mountainous areas, more frequent intervals may be required.
- (4) Rear disc brake pads and rotors—SHO Taurus.

Schedule B

SERVICE INTERVALS — PERFORM AT THE MONTHS OR DISTANCES SHOWN, WHICHEVER OCCURS FIRST.

NOTE: Items for Emission Control Service are shown in this type style.

FOR ITEMS MARKED WITH NUMBER IN PARENTHESES SUCH AS (1), SEE FOOTNOTE AT THE END OF THIS SECTION.

EVERY 3 MONTHS / 3,000 MILES

 Oil and oil filter changes are for all engines (3.8L, 3.0L, 3.0L FF, 3.0L SHO and 3.2L SHO).

ONCE A YEAR

 Check engine coolant protection, hoses and clamps.

EVERY 36 MONTHS

Replace engine coolant.

CAUTION: Engine oil, spark plugs and fuel filters for the flex fuel vehicle (FF) are unique and are not to be substituted with gasoline engine components.

NOTE: Replace FF fuel filters as required.

NOTE: Kilometer intervals are rounded off.

Regular Maintenance Intervals For Schedule B

7.500 MILES (12 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Rotate tires.

15.000 MILES (24 000 Kilometers)

 Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.

22,500 MILES (36 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Check battery fluid level (SHO only) every 24,000 miles or (3).
- Rotate tires.

30,000 MILES (48 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Replace engine coolant every 30,000 miles (48 000 km) or 36 months.
- Replace spark plugs—3.8L V-6, 3.0L FF vehicles (except 3.8L California).
- Replace air cleaner filter—(all engines). (1)
- Inspect disc brake pads and rotors (front) (all four, if equipped). (2)

- Inspect exhaust heat shields.
- Inspect brake linings and drums (rear). (2) (4)
- Inspect and repack rear wheel bearings.

37,500 MILES (60 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Rotate tires.

45,000 MILES (72 000 Kilometers)

 Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.

52,500 MILES (84 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Check battery fluid level (SHO only) every 24,000 miles or (3).
- Rotate tires.

60,000 MILES (96 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Replace engine coolant every 30,000 miles (48 000 km) or 36 months.
- Replace spark plugs—3.8L V-6; 3.0L V-6, 3.0L FF;
 3.0L and 3.2L SHO (platinum plugs).
- Inspect accessory drive belt(s).
- Replace air cleaner filter (all engines). (1)
- Replace cam belt and adjust valve lash (3.0L/3.2L SHO only).
- Replace PCV valve—all engines.
- Inspect exhaust heat shields.
- Inspect disc brake pads and rotors (all four, if equipped). (2)
- Inspect brake linings and drums (rear). (2) (4)

67,500 MILES (109 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Rotate tires.

75,000 MILES (121 000 Kilometers)

 Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.

82,500 MILES (133 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Rotate tires.

90,000 MILES (145 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Replace engine coolant every 30,000 miles (48 000 km) or 36 months.

- Replace spark plugs—3.8L V-6, 3.0L FF (except 3.8L California).
- Inspect accessory drive belt(s).
- Replace air cleaner filter—(all engines). (1)

97,500 MILES (157 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Rotate tires.

105,000 MILES (169 000 Kilometers)

 Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.

112,500 MILES (181 000 Kilometers)

- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Rotate tires.

120,000 MILES (193 000 Kilometers)

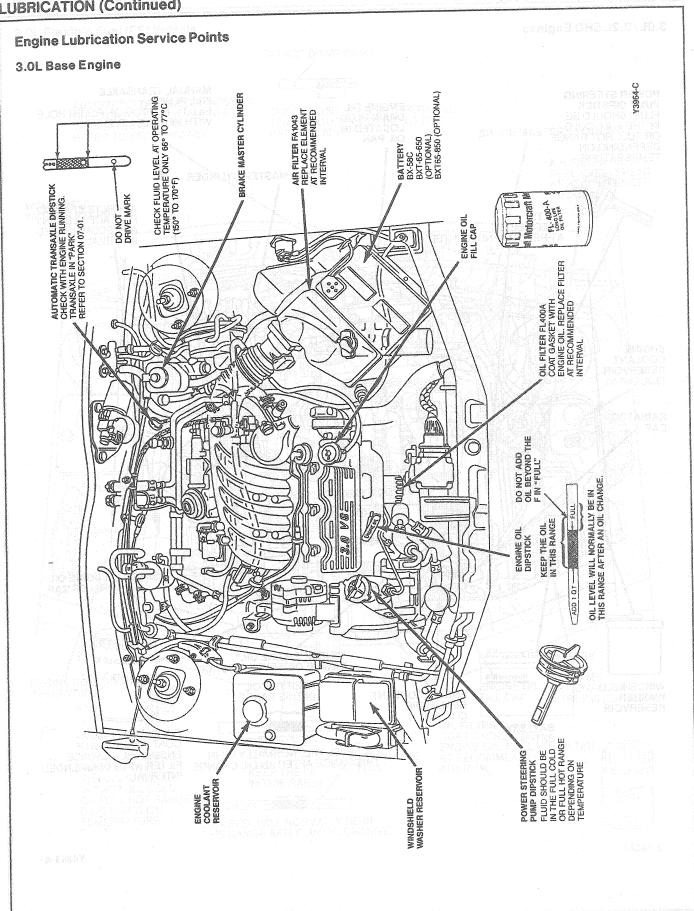
- Change engine oil and oil filter every 7,500 miles (12 000 km) or 6 months.
- Replace engine coolant every 30,000 miles (48 000 km) or 36 months.
- Replace spark plugs—3.8L V-6; 3.0L V-6 3.0L FF
 3.0L and 3.2L SHO (platinum plugs).
- Change automatic transaxle fluid. (3)
- Inspect accessory drive belt(s).
- Replace air cleaner filter (all engines). (1)
- Replace cam belt and adjust valve lash (3.0L/3.2L SHO only).
- Replace PCV valve (all engines).
- Inspect exhaust heat shields.
- Inspect disc brake pads and rotors (all four, if equipped). (2)
- Inspect brake linings and drums (rear). (2) (4)
- (1) If operating in severe dust, more frequent intervals may be required. Consult your dealer.
- (2) If your driving includes continuous stop-and-go driving or driving in mountainous / hilly areas, more frequent intervals may be required.
- (3) If operating in temperatures above 90°F (32°C), check more often.
- (4) Rear disc brake pads and rotors—SHO Taurus.

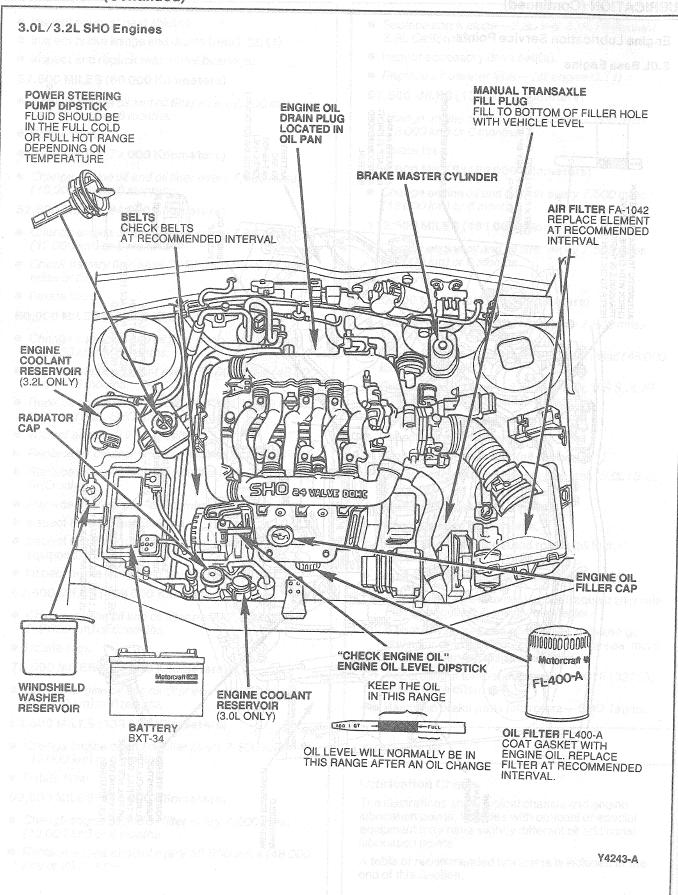
LUBRICATION

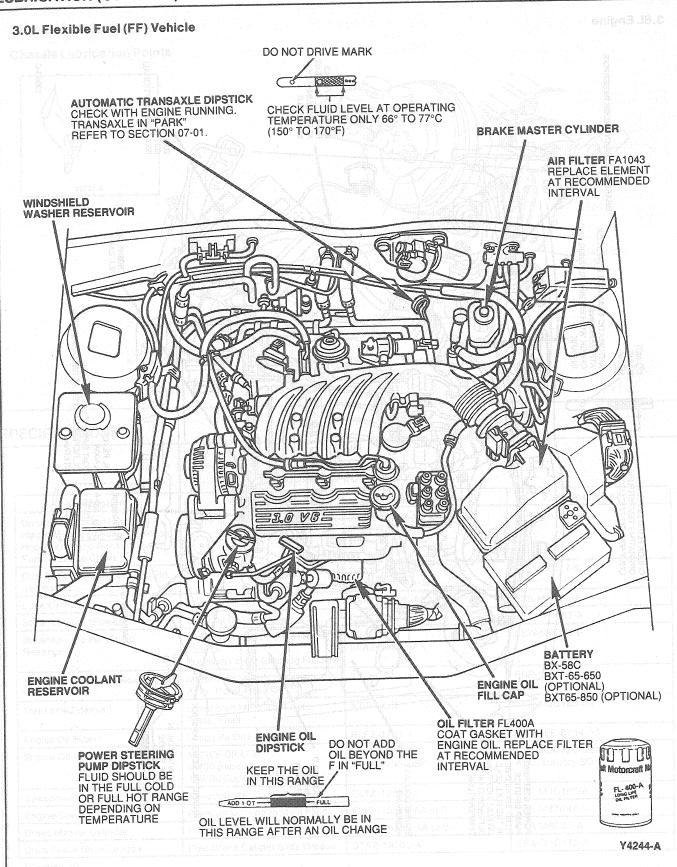
Lubrication Charts

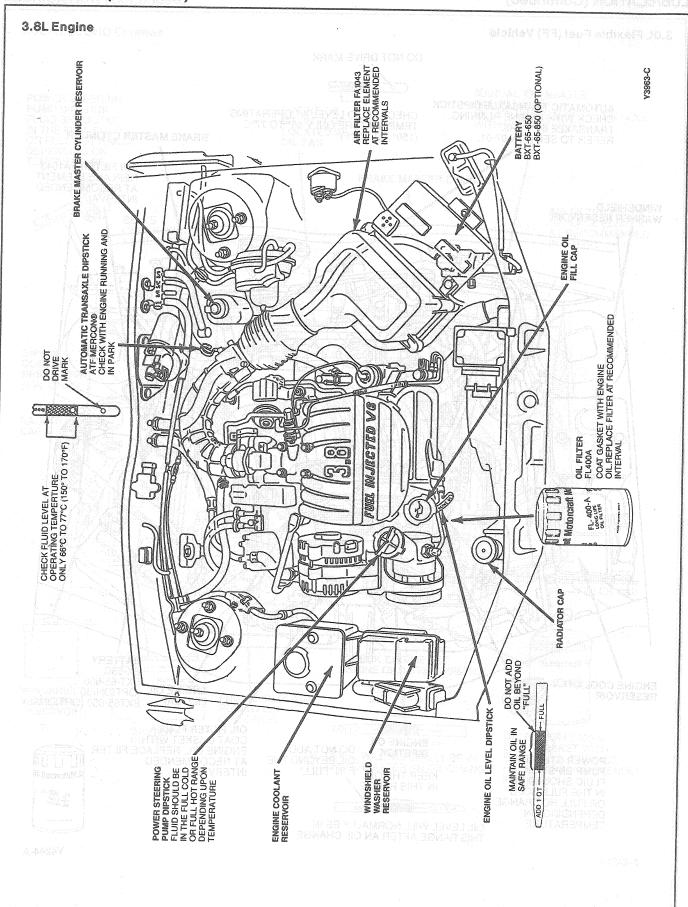
The illustrations show typical chassis and engine lubrication points. Vehicles with optional or special equipment may have slightly different or additional lubrication points.

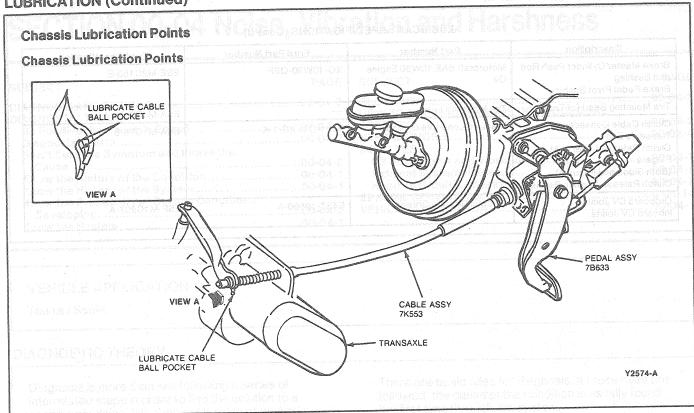
A table of recommended lubricants is included at the end of this Section.











SPECIFICATIONS

LUBRICANT SPECIFICATIONS

| Description | Part Number | Ford Part Number | Ford Specification | | | |
|---|--|-----------------------------|-------------------------------------|--|--|--|
| Door and Deck Lid Latches Hinges, Hinge Checks and Pivots Hood Latch and Auxiliary Catch Parking Brake Cable | Multi-Purpose Grease Spray | D7AZ-19584-AA | ESR-M1C159-A | | | |
| Disc Brake Caliper Locating Pin and Insulator | Locating Pin Silicone Dielectric Compound D7AZ-19A331-A Motorcraft WA-10 | | ESE-M1C71-A | | | |
| Lock Cylinders | Lock Lubricant | D8AZ-19587-AA | ESB-M2C20-A | | | |
| Steering Gear (Power) | Steering Gear Grease | C3AZ-19578-A | ESW-M1C87-A | | | |
| Steering—Power (Pump Reservoir) | TALL THE VI 1 OF OF | | ESW-M2C33-F | | | |
| Transaxle AXODE (Automatic) | Motorcraft MERCON® Auto. Trans. Fluid | XT-2-QDX | ESR-M2C163-A2 | | | |
| Transaxle (Manual) | Motorcraft MERCON® Auto. Trans. Fluid | XT-2-QDX | ESR-M2C163-A2 | | | |
| Engine Oil Filter | Long Life Oil Filter FL-400A | E4FZ-6731-A | ES-E4EE-6714-AA | | | |
| Engine Oil—Gasoline Engines MOTORCRAFT: 5W30 Super Premium 10W30 Super Premium | | XO-5W30-QSP XO-10W30-QSP | ESE-M2C153-E and API Category SG | | | |
| Speedometer Cable | Speedometer Cable Grease | E6TZ-19581-A | ESF-M1C160-A | | | |
| Engine Coolant | Premium Cooling System Fluid | E2FZ-19549-AA or B | ESE-M97B44-A | | | |
| Brake Master Cylinder | H.D. Brake Fluid | C6AZ-19542-AA or BA | ESA-M6C25-A | | | |
| Drum Brake Shoe Ledges | Disc Brake Caliper Slide Grease | D7AZ-19590-A | ESA-M1C172-A | | | |

(Continued)

SPECIFICATIONS (Continued)

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| Description | Part Number | Ford Part Number | Ford Specification | |
|--|------------------------------------|------------------|--------------------|--|
| Brake Master Cylinder Push Rod and Bushing Brake Pedal Pivot Bushing | Motorcraft SAE 10W30 Engine Oil | XO-10W30-QSP | ESE-M2C153-E | |
| Tire Mounting Bead (of Tire) | Tire Mounting Lube | | ESA-M1B6-A | |
| Clutch Cable Connection Transaxle End Clutch Release Lever—At Fingers (Both Sides and Fulcrum) Clutch Release Bearing Retainer | Premium Long-Life Grease | XG-1-C or XG-1-K | ESA-M1C75-B | |
| Outboard CV Joints / CV Joint Bearing Greas | | E43Z-19590-A | ESP-M1C207-A | |

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SECTION 00-04 Noise, Vibration and Harshness

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|---|--|
| DIAGNOSIS AND TESTING | GLOSSARY |

VEHICLE APPLICATION

Taurus/Sable.

DIAGNOSTIC THEORY

Diagnosis is more than just following a series of interrelated steps in order to find the solution to a specific condition. It is a way of looking at systems that are not functioning the way they should and finding out why. Also, it is knowing how the system **should** work and whether it is working correctly.

There are basic rules for diagnosis. If these rules are followed, the cause of the condition is usually found the first time through the system.

Know the System

This means know how the parts go together. Know how the system operates and its limits and what happens when something goes wrong. Sometimes this means checking the system against one that is known to be working properly.

Know the History of the System

How old or new is the system? What kind of treatment has it had? Has it been serviced in the past in such a manner that might relate to the present condition? What is the service history? A clue in any one of these areas might save time.

Know the History of the Condition

Did it start suddenly? Or did it appear gradually? Was it related to some other occurrence like an accident or previous part replacement? Know how the condition made itself known; it may be an important clue to the cause.

1993 Taurus / Sable July, 1992

DIAGNOSTIC THEORY (Continued)

Know the Probability of Certain Conditions Developing

It is true that most conditions are caused by simple things rather than by complex ones and they occur in a fairly predictable pattern. Electrical conditions, for instance, usually occur at connections rather than in components. An engine no-start is more likely to be caused by a loose wire or some component out of adjustment than a sheared-off camshaft. Know the difference between **impossible** and **improbable**. Many good technicians have spent hours diagnosing a system thinking certain failures were impossible, only to find out that the failures were just improbable and actually happened. Remember that new parts are just that. It does **not** mean they are **always good** functioning parts.

Don't Cure the Symptom and Leave the Cause

Lowering the air pressure in a front tire may correct the condition of a vehicle leaning to one side, but it does not correct the original condition.

Be Positive the Cause Is Found

Double check findings. If a worn component is found or something is out of adjustment, determine what else could be wrong. If one of the engine mounts was loose, could the other one be loose too? What about the transaxle mounts?

Diagnosis Charts

Charts are simply a way of expressing the relationship between basic logic and a physical system of components. They help corner the cause of a condition in the **shortest possible amount of time**. Diagnosis charts combine many areas of diagnosis into one visual display:

- Probability of certain things occurring in a system.
- Speed of checking certain components or functions before others.
- Simplicity of performing certain tests before others.
- Elimination of checking huge portions of a system by performing simple tests.
- Certainty of narrowing down the search to a small portion before performing in-depth testing.

The fastest way to find a condition is to work with the tools that are available, which means working with proven diagnosis charts and the proper special equipment for the system.

HOW TO USE THIS DIAGNOSTIC PROCEDURE SECTION

Noise, vibration and harshness (NVH in engineering shorthand) is becoming more and more important because vehicles are becoming more sensitive to these vibrations. This section is designed to give a working knowledge of the process of diagnosing noise and vibration situations. It is divided into several sections based on the description of the condition. If the condition occurs at high speed for instance, the most likely place to start is under High Speed Shake. The Road Test Section will tell how to sort out the conditions into categories and how to tell a vibration from a shake. It will give a few hints on quick checks to ensure that a cause is either pinpointed or eliminated.

Become familiar with the terms. Use the Glossary Section to find the descriptive name of conditions not encountered before. After naming it, proceed to the Section entitled Identifying the Condition and locate the proper Diagnosis Section. Remember, just by beginning at that point, most other systems in the vehicle have been eliminated. When the proper section is identified, the job is partly done. Follow the steps within the section. Quick Checks are described within the step, while more involved tests and adjustments are found in Service and Adjustment. Always follow each step exactly, and make notes along the way to recall important findings later.

GLOSSARY

Acceleration

- Light: Part throttle increase in speed such as 0-97 km/h (0-60 mph) in approximately 30 seconds.
- Heavy: One-half to full throttle increase in speed such as 0-97 km/h (0-60 mph) in approximately 20 seconds.

Ambient Temperature

Surrounding or prevailing temperature. Normally, the temperature in the service area or outdoors, depending on where testing is taking place.

Boom

A cycling, rhythmic noise often accompanied by a sensation of pressure on the ear drums.

Refers to a stressed, rubber-mounted component that transmits any NVH which would normally be absorbed by the mount. Refer to Neutralize.

Brakes Applied Condition Cookies bett w

When vehicle is stationary, service brakes applied with enough force to hold vehicle against acceleration with transaxle in gear.

Coast/Neutral Coast

Engine / transaxle taken out of gear by placing transmission selector in NEUTRAL or by depressing clutch in manual transaxle.

GLOSSARY (Continued)

CPS

Cycles Per Second (Hz).

Cruise

Steady highway speed; neither accelerating nor decelerating; even pressure on accelerator pedal on level ground.

Deceleration

Slowing of vehicle by releasing foot from accelerator at cruise and allowing engine to slow vehicle without application of brakes.

Drivetrain

Includes all power transmitting components from the rear of the engine to the wheels, including clutch/torque converter and transaxle halfshafts.

Engine Imbalance

Some component in the engine which is normally smoothly balanced now causing a perceptible vibration in the vehicle.

Engine Misfire

One or more cylinders in the engine fails to fire at the proper time.

Engine Runup Test

Operation of engine through normal rpm range while vehicle is sitting still. Used for engine vibration check.

Gravelly Feel

A grinding or growl in a component, similar to the feel experienced while driving on gravel.

Harshness

A harder than usual behavior of a component, like riding a vehicle with overinflated tires usually associated with road impacts.

Hz

Hertz (Cycles Per Second).

Imbalance a ear salish has shirted and isstitution

Out of balance; more weight on one side of a rotating component causing shake or vibration.

Inboard

Toward the centerline of the vehicle. Refer to Outboard.

Isolate

Separate from the influence of other components.

NVH

Noise, Vibration and Harshness.

Neutralize (Normalize)

To return to unstressed position. Used to describe mounts. Refer to Bound Up.

Outboard

Toward the outside of the vehicle, rather than toward the centerline. Refer to Inboard.

Pumping Feel the tapita a yawka bibaka akangalib k

A very slow vibration that results in a movement of vehicle components similar to pumping the service brakes slightly.

Radial/Lateral

Radial is in the plane of rotation, while lateral is at 90 degrees to the fore-and-aft plane on the vehicle.

Road Test

Operation of vehicle under conditions designed to recreate the condition.

Runout

Out of round or wobble.

Shake

Low frequency vibration; usually results in visual movement of components.

Tip-In Moan

A light moaning noise is heard when the vehicle is lightly accelerated between 40-64 km/h (25-40 mph).

Tire Force Vibration

Tire vibration caused by variations in the construction of the tire, resulting in a vibration when the tire rotates against the pavement. This condition may be present on perfectly round and perfectly balanced tires because of variations in the inner construction.

Tire Deflection

Bending of the body of the tire during rotation.

T.I.R.

Total indicator runout.

Tires—Flat Spots

Commonly caused by letting vehicle stand when tires are warm. Can be cured by operating vehicle until tires are warm. More likely a concern with Bias Belted Nylon reinforced tires than with radial tires.

Two-Plane Balance

Radial and lateral balance.

Vibration

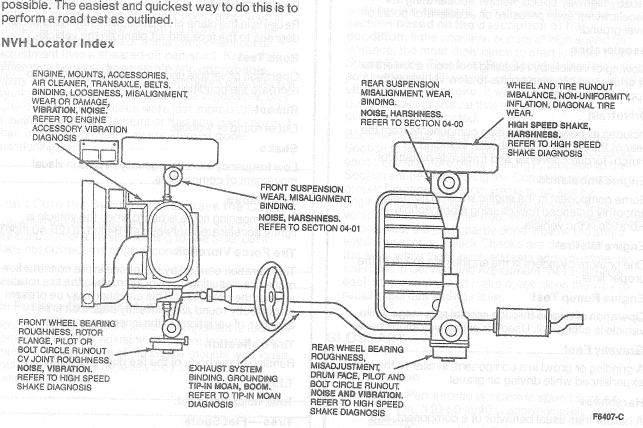
Regular movement of a component that results in a sound or feel of movement.

Typical vibration frequencies, measured in cycles per second (Hz), are:

- 1. Engine accessories (up to 200 Hz).
- 2. Engine (50 Hz); firing (200 Hz).
- 3. Wheels and tires (13 Hz).
- 4. Wheel bearings (6 Hz).
- Tip-in mode (120 Hz).

NVH DIAGNOSIS CONTROL CONTROL

NVH diagnosis should always start with the road test. Noise, vibration and harshness (NVH) usually occur in four areas: tires, engine accessories, suspension and drivetrain. It is important therefore, that an NVH concern is isolated into its specific area as soon as possible. The easiest and quickest way to do this is to perform a road test as outlined.



A gear-driven unit will produce a certain amount of noise. Some noise is acceptable and may be audible at certain speeds or under various driving conditions. The slight noise is in no way detrimental and must be considered normal.

The road test and customer interview (if available) provide information needed to identify the condition and give direction to the correct starting point for diagnosis.

Make notes throughout diagnosis routine. Use a Road Test form that includes space for comments. Make sure to write down even the smallest bit of information, it may turn out to be most important.

- Road test the vehicle and define the condition by reproducing it several times during the road test.
- Perform the Road Test Quick Checks as soon as the condition is reproduced. This will identify the proper section of the diagnostic procedure. Run through the quick checks, more than once, to ensure they are providing a useable result. Remember, the Road Test Quick Checks may not tell where the concern is, but they will tell where it is not.

ROAD TEST (Continued)

4. Do not touch anything until a road test and a thorough visual inspection of the vehicle have been performed. Do not change tire pressure or vehicle load. Adjusting tire pressures, vehicle load, or making other adjustments may reduce the condition's intensity to a point where it cannot be identified clearly. It may also inject something new into the system, preventing proper diagnosis.

Make a visual inspection as part of the preliminary diagnostic routine, writing down anything that does not look right. Note tire pressures, but do not adjust them yet. Note leaking fluids, loose nuts and /or bolts, or bright spots where components may be rubbing against each other. Check luggage compartment or cargo area for unusual loads.

ROAD TEST (Continued)

| | ROAD TE | OI FURING | |
|---------|--|-------------------|--|
| 1. | Did condition exist when vehicle was ne | w? Ye | load, or making pilne of the condition's extension of point with |
| | How did condition begin? | | |
| | Gradually occurred | | Mileage |
| | Suddenly occurred | | Mileage |
| | AWAI between SAPAI and BAI | | |
| 2. | NVH between MPH and MI | rh ano | — gear. signil dent mento nose tan Time times in the common of the com |
| 3. | Neutral engine run-up vibration? | Yes | No |
| 4. | What driving conditions affect the NVH? | | |
| | Light to medium accele | ration | |
| | Hard acceleration | | |
| | Deceleration (foot off a | ccelerator pedal) | |
| | Constant speed | | |
| | | | |
| 5. | If a vibration, where is the vibration notic | ed? | |
| konde š | Seat | | |
| | Steering Wheel | | |
| | Instrument panel pad | | |
| | Floor | | |
| | Hood and fenders | | |
| | Province our oceang commons. Tra- | | |
| | If a noise, define as: | | |
| | | | |
| | Moan | рениссиина | |
| | Rumble | Grinding | |
| | ANGELIANS TO SEE HUM SEED THE SEED TO SEE THE SEED THE SE | | |
| | Other | Describe: | |

ROAD TEST (Continued)

Road Test Quick Checks

 24-80 km/h (15-50 mph): With light acceleration, a moaning noise is heard and possibly a vibration is felt in the floorpan. It is usually worse at a particular engine speed and at a particular throttle setting during acceleration at that speed. It may also produce a moaning sound, depending on what component is causing it.

Refer to Tip-In Moan Diagnosis charts.

 High Speed: With slow acceleration and deceleration, a shake is sometimes noticed in the steering wheel / column, seats, floorpan, trim panels or front end sheet metal. It is a low frequency vibration (around 9-15 cycles per second). It may or may not be increased by applying brakes lightly.

Refer to High Speed Shake Diagnosis charts.

3. High Speed: A vibration is felt in the floorpan or seats with no visible shake, but with an accompanying sound or rumble, buzz, hum, drone or booming noise. Coast with clutch depressed or automatic transaxle selector in NEUTRAL and engine idling. If vibration is still evident, it may be related to wheels, tires, brake rotors, hubs or bearings.

Refer to High Speed Shake Diagnosis charts.

4. O-High Speed: A vibration is felt whenever the engine reaches a particular rpm. It will disappear in neutral coast. The vibration can be duplicated by operating the engine at the problem rpm while the vehicle is sitting still. It can be caused by any component, from the accessory drive belts to the clutch or torque converter which turns at engine speed when the vehicle is stopped.

Refer to Engine Accessory Diagnosis charts.

- Noise and Vibration while Turning. Clicking, popping or grinding noises may be due to the following:
 - a. Cut or damaged CV joint boot resulting in inadequate or contaminated lube fill in outboard or inboard CV joints
 - b. Loose CV joint boot clamp
 - c. Other component contacting halfshaft assembly
 - Worn, damaged or improperly installed wheel bearing
 - Worn, contaminated, or dry, inboard or outboard CV joints.

CV Joint Noise and Vibration and common and

During normal driving conditions the CV joints are subjected to constant changes in angularity. Worn or damaged CV joints can be isolated during the road test by noting changes in steering angle or ride height and the effect that it has on the vibration or shudder condition.

NOTE: If a shudder condition is on a new vehicle, check front spring rates and vehicle ride height. Incorrect front springs will cause incorrect ride height and shudder on acceleration.

If the condition becomes noticeably worse during turns the outer CV joint is suspect. However, if the condition only changes with ride heights the inner CV joint is the probable source.

Once you have determined that a CV joint is damaged, refer to Group 05 for complete service instructions.

Exhaust System Noises

To neutralize exhaust system noise, use the following procedure:

- Loosen exhaust pipe to manifold fasteners at flanges and at muffler inlet connection.
- 2. Place a stand to support muffler parallel to see vehicle frame with muffler hanger unloaded.
- 3. Tighten muffler connection.
- Position exhaust pipes to manifolds and tighten. Ensure catalyst and heat shield do not contact frame rails.
- With complete exhaust system tight (and cooled), the rear hanger strap should be angled forward, to allow the system to expand rearward when heated during normal running.

DIAGNOSIS AND TESTING

Tools Required:

- Rotunda Radial Run-Out Gauge 007-00014
- Belt Tension Gauge T63L-8620-A
- Dial Indicator with Bracketry TOOL-4201-C

These diagnosis charts are designed to take the technician through a step-by-step diagnosis procedure to determine the cause of a condition. It may not always be necessary to follow the chart to its conclusion. Perform only the Steps necessary to correct the condition. Then check the operation of the system to ensure the cause has been found.

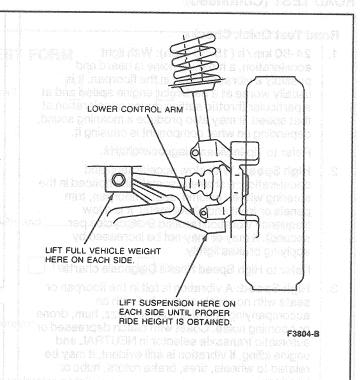
It is sometimes necessary to remove various components of vehicle to gain access to component to be tested. Refer to applicable section for removal and installation of components. After verifying the condition has been corrected, ensure all components removed have been installed.

When performing the High-Speed Shake Diagnosis or Engine Accessory Vibration Diagnosis, observe the following precautions:

CAUTION: The suspension should not be allowed to hang free. When the constant velocity joint is run at a very high angle, extra vibrations as well as damage to seals and joints can occur.

The lower control arm should be supported as far outboard as possible. To bring the vehicle to its proper ride height, the full weight of the vehicle should be supported in front by floor jacks, as shown. Refer to Section 00-02 for jacking instructions.

WARNING: IF ONLY ONE DRIVE WHEEL IS ALLOWED TO ROTATE, SPEED MUST BE LIMITED TO 55 KM/H (35 MPH) INDICATED ON THE SPEEDOMETER SINCE ACTUAL WHEEL SPEED WILL BE TWICE THAT INDICATED ON THE SPEEDOMETER. SPEED EXCEEDING 55 KM/H (35 MPH) OR ALLOWING THE DRIVE WHEEL TO HANG UNSUPPORTED COULD RESULT IN TIRE DISINTEGRATION, DIFFERENTIAL FAILURE AND/OR CONSTANT VELOCITY JOINT AND HALFSHAFT FAILURE, WHICH COULD CAUSE SERIOUS PERSONAL INJURY AND EXTENSIVE VEHICLE DAMAGE.



of lellers of reliture troccus of bases press PINPOINT TEST A:

| | TEST STEP STATE AND A SECOND STATE OF STATE OF STATE AND A SECOND STATE OF STAT | RESULT | \triangleright | ACTION TO TAKE |
|------------------|--|--|---|---|
| A1 | Accelerate vehicle to the speed which the customer indicated the shake occurred. Is shake present? | Note yet besuso ed as Note yet besuso ed as Yes igne to grout doch | Þ Þ | Vehicle OK. GO to A2. |
| A2 | INSPECT TIRES Note on the legal of the legal | | | |
| | Raise vehicle on hoist. Inspect tires for extreme wear or damage, cupping or flat spots. Are tires OK? CUPPED OR DISHED TREADS F7035-A | oting halfelwift Special Special Coorly installed wheel | aimeth red CV solida ection red, or | GO to A3. CHECK suspension components for misalignment, abnormal wear, or damage that may have contributed to the tire wear. CORRECT suspension concerns and REPLACE damaged tires. PERFORM Road Test. |
| A3 | INSPECT WHEEL BEARINGS | | | |
| od free broad | Spin front tires by hand to check for wheel bearing roughness. Check bearing end play. Are bearings OK? | Yes No | > | GO to A4. REPLACE bearings as necessary. ROAD TEST vehicle. |

PINPOINT TEST A: HIGH SPEED SHAKE DIAGNOSIS (Continued)

| | XATET MOTTO A. TEST STEP TEMBER | RESULT 9378 | ACTION TO TAKE |
|----------------|---|--|---|
| 14 | INSPECT CV JOINT BOOTS FOR DAMAGE | | reguçaran en A |
| | Spin front tire by hand. Inspect CV joint boots for evidence of cracks, tears, splits or splattered grease. Is there CV joint boot damage? NOTE: The silicone boot used on the 3.0L engine RH inboard CV joint has a vent near the small clamp and may show some grease leakage, which is also acceptable. Do not replace the boot for these | d, check axie hub face n.ON didn't runout. should be less than 0,03min (0 tradial nmout should be less the inch). sive runout? | GO to A5. REPLACE damaged boo or clamp, clean and inspect CV joint for wear or damage. REPLACE CV joint only if necessary. |
| | conditions. | Totale Markacas a | |
| A5 | HALFSHAFT RUNOUT IN VEHICLE | | TREMENTO TAKE |
| | Attach Dial Indicator with Bracketry TOOL-4201-C or equivalent to vehicle underbody. Check the radial runout at the center of shaft Max.—4.0mm (0.160-inch). | Yes | GO to A6. REPLACE interconnecting shaft only. |
| | DIAL INDICATOR TOOL-4201-C | TOTAL SOLOR PLOT | CHANGE OF INCTANT, amples of indicated some RCTEST through still |
| | OUTBOARD END F7039-A | d bicas in criginal indexad Singli s for foretradial and lateral firm | tii PWRSEL RUNGUY ti lustati wheeks a Check of whee |
| A6 | WHEEL TIRE RUNOUT | #1091-11 14mm (0.045-ingl) | Ricibs Rassour Control |
| BOA. | Spin front wheels at low speed with a wheel balance spinner, observing wheel tire runout. Is there visible runout? | No (dom-d40.0) mmp (| BALANCE wheels. GO to A7. GO to A10. |
| A7 | DRIVETRAIN | | |
| THO SIA | Engage drivetrain and carefully accelerate the drive wheels. Vehicle must be supported at suspension points to avoid damage to halfshafts. Is vibration felt? | No Yes | |
| A8 | DRIVE WHEELS ROTTED BOTTON OF THE PROPERTY OF | | |
| inioc sobal | Mark rotor index to hub. Remove front wheels. Secure brake rotor, if so equipped, by installing the lug nuts, reversed. Carefully accelerate the drive wheels. Is vibration felt? | No Yesanta Jehw Koena Aunout Here. | BALANCE front wheels. ROAD TEST. GO to A9. |
| A9 | FRONT ROTORS | | |
| | Mark rotor index to hub. Remove the brake rotors. Carefully accelerate the drive wheels. | No Yes | REPLACE the rotors. GO to A10. |
| | RECHECK runouts, reindexing as naces to bring radial runou within times. GO to a | HEOK TOTAL STEERS. JAOUT HERZ | |
| | | | |
| | | | |

PINPOINT TEST A:

| TEST STEP | RESULT | ACTION TO TAKE |
|--|--|---|
| A10 HUB RUNOUT | | |
| | | nconga ag T-13TOV nd pikel V 0 to sodni d Jehoù wana yana |
| DRUM/ROTOR PILOT RADIAL RUNOUT DRUM ROTOR PILOT F7037-A | | e Anthe Global A Particular States of the Charles and Apart Charles and Apart Charles and |
| A11 WHEEL RUNOUT | STATE | |
| Install wheels and tires in original indexed positions. Check all wheels for total radial and lateral tire runout. Radial Runout—1.14mm (0.045-inch) Lateral Runout—1.14mm (0.045-inch) Is there excessive runout? | | GO to A13. CHECK wheel rim runout radial and lateral. If either exceeds 1.14mm (0.045-inch), REPLACE the wheel and recheck runout. If new rim is within |
| A12 TIRE RUNOUT | and carefully accelerate that c | limits, LOCATE and MARK the low point of ri radial runout. GO to A12 |
| Check total lateral and radial runout 1.14mm (0-04.5 inch). | Runout is within specification | GO to A13. |
| CHECK WHEEL RADIAL RUNOUT HERE | Lateral runout out of specification | REPLACE tire. |
| CHECK WHEEL LATERAL RUNOUT HERE CHECK TOTAL LATERAL RUNOUT HERE | Radial runout out a distance of specification | |
| CHECK TOTAL RADIAL RUNOUT HERE F7038-A | ess estate e | |
| | | [] - 현재에 되었다고요요요요요요요요요요요요요요요요요요요요요요요요요요요요요요요요요요요요 |
| WHEEL BALANCE Balance all wheels not previously balanced. Road test vehicle. Are wheels balanced? | | Vehicle OK. GO to A14. |

PINPOINT TEST A: HIGH SPEED SHAKE DIAGNOSIS (Continued)

| , | TEST STEP. | RESULT | ACTION TO TAKE |
|-----|---|--|---|
| A14 | SUBSTITUTE WHEELS AND TIRES | | |
| | Substitute a known good set of wheels and tires. Road test. If vehicle still exhibits shake or vibration, note vehicle speed and/or engine rpm that occurs. Is vibration felt? | attended to be and reported to the control of the c | REINSTALL the original tire wheel assemblies, one by one, road testing at each step until the damaged tire(s) is identified. REPLACE tire(s) as necessary and retest. |
| | | Yes | GO to A4. |

PINPOINT TEST B: TIP-IN MOAN DIAGNOSIS

| TEST STEP | RESULT | ACTION TO TAKE |
|---|---|---|
| AIR CLEANER Check air cleaner for proper installation of base gasket, lid element and air inlet duct assembly. Are components properly installed? | Yes No | |
| POWERTRAIN RESONANCE (FOR MANUAL TRANSAXLES ONLY) Loosen all converter housing-to-engine retaining bolts three-quarter turn and road test. Tighten bolts after test. Is moan reduced or eliminated? | Yes | damper as indicated and RETEST. If moan still persists, GO to B3. |
| B3 ENGINE MOUNTS | Vac | |
| Normalize engine mounts by loosening mounts. Jack engine / transaxle assembly and shake. Tighten fasteners. Repeat road test. Is moan reduced or eliminated? F7031-A | No Modfilment for say congressing between the engine and best at Confirm and best state. 1. Och firm cables, A / Consession etc. | C1 CARL LAB of OP Carl Carl Carl Carl Carl Carl Carl Carl |

PINPOINT TEST B: TIP-IN MOAN DIAGNOSIS (Continued)

| | TEST STEP THE PROPERTY OF THE | RESULT | > | ACTION TO TAKE |
|---------|--|---|-------------|--|
| В4 | EXHAUST SYSTEM | | | |
| | Warm up system to normal operating temperature. Loosen all hanger attachments and reposition hangers until they hang free and straight. Then loosen all flange joints and, with engine running, shift transmission from NEUTRAL to DRIVE and back to NEUTRAL (or load engine with clutch). Tighten all hanger clamps and flanges. Road test vehicle. Is moan reduced or eliminated? | Yes yes yes yes yes yes yes yes | | Vehicle OK. REFER to Engine Accessory Vibration Diagnosis. |
| | EXHAUST PIPE FLANGE | PARPORT TEST S | | |
| | | | | |
| | | or graper installation of bas and air inlet duct assembly rope; ly installed? | 100 | |
| \$700mg | | ANGE (FOR MANUAL | | 82 POWERSBARING |
| | ATOM to BOMA PROPERTY F7098-A STORE SENDING STORE SENDINGS SENDING | er housing-to-angine retain! ture and read test. Tighten | | |

TF7872A

PINPOINT TEST C: IDLE BOOM/SHAKE/VIBRATION DIAGNOSIS

| | TEST STEP (See also begin) | RESULT | | ACTION TO TAKE |
|----|--|----------------------------|-----|--|
| C1 | CABLE/HOSES | | | |
| | Check engine compartment for any component that may be grounding between the engine and body or chassis. Example: Control cables, A/C hoses, accelerator cable, etc. Are components OK? | Yes tastb No Shetsnimik | 100 | GO to C2. CORRECT condition and PERFORM Road Test. If moan persists, GO to C2 |
| C2 | ENGINE MOUNTS | | | |
| | Normalize engine mounts by loosening the two right side mounts. Jack the engine up under the crankshaft pulley until the engine mount is free of the frame. Set back down until mount just touches the frame. Tighten engine mount nuts. Are mounts OK? | Yes No | Þ | Vehicle OK. GO to C3. |
| СЗ | EXHAUST SYSTEM | | | Copul A Machicum, relevises |
| | NOTE: Disregard this step if already performed in Test Step B2 (Tip-in Moan Diagnosis). Warm up system to normal operating temperature. Straighten all hangers to a vertical position. Loosen all flange joints and with engine running, shift transmission from NEUTRAL to DRIVE and back to NEUTRAL. Re-tighten flanges and road test vehicle. Is system OK? | Yes | | Vehicle OK. GO to C4. |
| C4 | ENGINE IDLING | | | |
| | With engine idling, visually check all accessory drive belts and pulleys for misalignment, runout or irregular motion. Maximum runout is 3mm (1/8-inch). Is system OK? | Yes | | Vehicle OK. REFER to Enigne Accessory Vibration Diagnosis. |

TF7752B

DIAGNOSIS AND TESTING (Continued)

| TERM OF MOTION TEST STEP 12.00000 | RESULT P | ACTION TO TAKE |
|--|--|--|
| ENGINE RUN-UP Run-up to problem rpm observed in road test, with vehicle stationary. Does vibration occur? Toas 35 3 40 340 | Yes average of heads as the Yes average of the Head of the Yes average of the Yes are the | GO to D2. PERFORM stall test in DRIVE with brakes locked (or load engine b slipping clutch in gear with manual transmission). If vibratio occurs, GO to Tip-In Moz Diagnosis in this section |
| D2 DRIVE BELTS AND PULLEYS | | rancae ch-aifi e |
| With engine stopped, inspect all engine accessory drive belts and pulleys for wear or damage, and check belt tension, using Belt Tension Gauge T63L-8620-A or equivalent. Automatic Tensioners have belt wear indicator marks. If the indicator mark is not between the min and max marks, the belt is worn or an incorrect belt is installed. Are belts or pulleys worn or damaged? | Yes that do belong to be yes to be t | GO to D3. REPLACE worn or damaged belts or pulley CORRECT belt tension. GO to D3. |
| | | COAL SERVICE TOO |
| BELT TENSION GAUGE T63L-8620-A V-RIBBED BELTS F7099-A | | Total Privates Andrews |
| D3 MOUNTING HARDWARE | | |
| Inspect mounting brackets and adjusting components for proper alignment and tightness. Are mounting and adjusting components secure? | Yes No | GO to D4. ALIGN and TIGHTEN mounting hardware to specifications. CORRECT belt tension. START UP engine and run-up to problem rpm. vibration still exists, GC to D4. |
| D4 ENGINE IDLING ■ With engine idling, visually check all accessory | No misalignment | GO to D5 . |
| With engine idling, visually check all accessory drive belts and pulleys for misalignment, runout or irregular motion. Maximum runout is 3mm (1/8 inch). Increase engine rpm. | visible Pulley(s) exceeds maximum runout | ► REPLACE pulley. |
| | Belt rides up and down on one pulley | REPLACE that pulley. |
| | Belt rides up and down on more than | REPLACE belt. |

PINPOINT TEST D: ENGINE ACCESSORY VIBRATION DIAGNOSIS (Continued)

| | RATOS MONTO TEST STEP TANKAR | RESULT > | ACTION TO TAKE |
|---------|--|--|---|
| D5 | ACCESSORY DRIVE BELT NOISE | | AU-VURBNOVE II.O |
| (d 500) | Check for "chirps" or squeal in a poly-vee belt by spraying a small amount of water on the grooved side of the belt (use a spray bottle or equivalent). Does the noise change? | Pest pan chaerved in road leek leek leek leek leek leek leek lee | CHECK for misalignment. CHECK tensioner position. CHECK for worn belt. SERVICE/REPLACE as required. |
| | The control of the co | No P | CHECK accessory bearings. REPLACE as required. GO to D6. |
| D6 | ACCESSORIES | т приментителя стору буроктаватеричения сположения не настранавией оператительность положения выстрандующего в | |
| | Run-up engine to problem rpm and, with stethoscope-type device, check each component. If the source cannot be detected by probing, remove each belt, one at a time, until vibration goes away. | ALEYS pped, inspect all angine acces pulleys for wear or damage, an ion, using Belt Tension Sauge | REPLACE belt. If vibration still exists, SERVICE or REPLACE component. |
| | 이 그 이 것은 이번 하는데 그 이 이번에 가장하는 것이 되는 이번에 가장 그 사람들이 얼마를 하는 것이 되는 것이 되었다. 그는 것이 없는데 그 것이 없는데 그렇게 되었다. 그 사람들이 되었다. | dulivalent. Lonere have belt wear indiconfication mark is got between the title belt is work or an incorrect. | Possible engine component imbalance. This situation is possible, but unlikely. |

Spenies to move relied or A @ TF7754B

SPECIAL SERVICE TOOLS

| Tool Number/ Description | illustration |
|-----------------------------------|--------------|
| T63L-8620-A Belt Tension Gauge | TO FO |
| | T63L-8620-A |

| Tool Number | Description | |
|-------------|-------------------------------|--|
| TOOL-4201-C | Dial Indicator with Bracketry | |

Berricker up and the telephone the telephone

| ROTUNDA EQUIPMENT | |
|-------------------|----------------------|
| Model | Description |
| 007-00014 | Radial Run-Out Gauge |
| | |