

Vehicle Identification Numbers

Vehicle Identification Number (VIN)

- ▶ Every vehicle manufactured for sale in the US
- ▶ Fingerprint, a VIN is unique for every vehicle
 - ▶ Contains coded information about the vehicle
- ▶ Primary purpose: identify each vehicle if stolen
- ▶ Other uses:
 - ▶ Track registrations
 - ▶ Insurance coverage
 - ▶ Track parking tickets
 - ▶ **Smog Check Vehicle Identification**

Pre 1981 VIN

- ▶ First used in 1954
- ▶ From 1954 to 1981, there was no accepted standard
- ▶ Manufacturers used different formats
- ▶ Location on the vehicle was not standardized
- ▶ **This affects 1976 to 1980 vehicles that are subject to smog inspection**

1981: National Highway Traffic Safety Administration (NHTSA) created a unified and standardized VIN system

- ▶ Requires 17 alpha / numeric characters that uniquely identifies the vehicle
 - ▶ The letters I, O or Q' cannot be used
 - ▶ if a character looks like a I, O or Q; it is a 1 or a zero
- ▶ VIN is required to have 7 sections
- ▶ Beginning with the 1980 model year, the VINs of any two vehicles
 - ▶ manufactured within a 60-year period must not be identical

Character VIN Breakdown

- ▶ 1st: character identifies the country of origin
- ▶ 2nd: character identifies the manufacturer
- ▶ 3rd: character identifies a division within the manufacturer

North America Country Codes

- ▶ North American Countries are represented by numbers:
 - ▶ United States (1, 4 or 5)
 - ▶ Canada (2)
 - ▶ Mexico (3)

Characters 4 through 8

- ▶ Do not have a designated use
- ▶ Manufacturers use them to describe the attributes of the vehicle
- ▶ 4th character often identifies the platform
- ▶ 5th and 6th characters identify other vehicle attributes
- ▶ 7th character usually identifies body type (ie coupe, sedan, SUV, truck)
 - ▶ Must always be alphabetic
- ▶ 8th character usually provides the engine information
- ▶ <http://www.angelfire.com/ca/TORONTO/VIN/WMI.html#mfg>

Character Breakdown

- ▶ 9th character is always an accuracy check digit
 - ▶ <http://www.angelfire.com/ca/TORONTO/VIN/checkdigit.html>
- ▶ **10th character is the model year**
 - ▶ **September 1st through August 31st**
- ▶ 11th is the plant code
- ▶ Last six characters, 12 through 17, are the production sequence numbers

10th Character is Model Year

| | | | | | | | |
|---|------|---|------|---|------|---|------|
| A | 1980 | L | 1990 | Y | 2000 | A | 2010 |
| B | 1981 | M | 1991 | 1 | 2001 | B | 2011 |
| C | 1982 | N | 1992 | 2 | 2002 | C | 2012 |
| D | 1983 | P | 1993 | 3 | 2003 | D | 2013 |
| E | 1984 | R | 1994 | 4 | 2004 | E | 2014 |
| F | 1985 | S | 1995 | 5 | 2005 | F | 2015 |
| G | 1986 | T | 1996 | 6 | 2006 | G | 2016 |
| H | 1987 | V | 1997 | 7 | 2007 | H | 2017 |
| J | 1988 | W | 1998 | 8 | 2008 | J | 2018 |
| K | 1989 | X | 1999 | 9 | 2009 | K | 2019 |

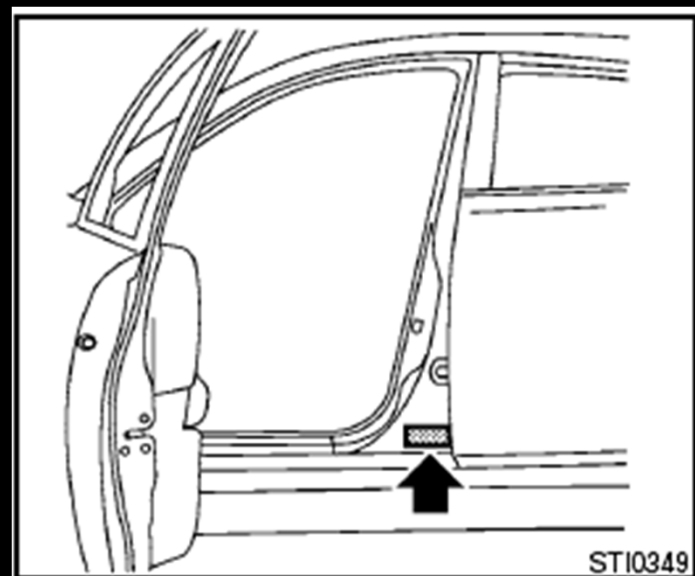
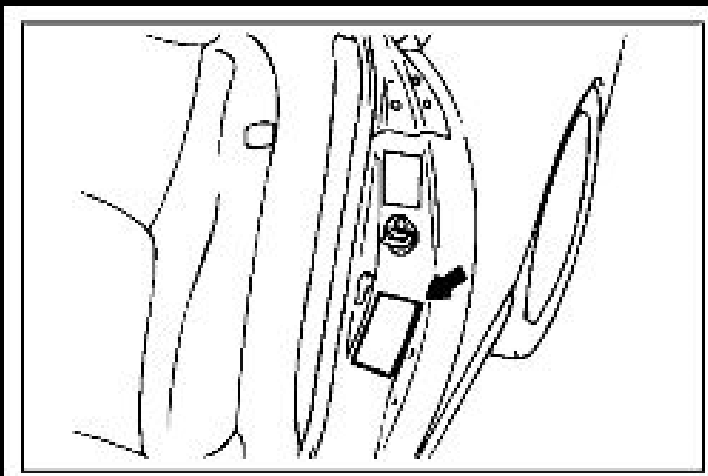
Pattern repeats every
30 years

Standardized Location

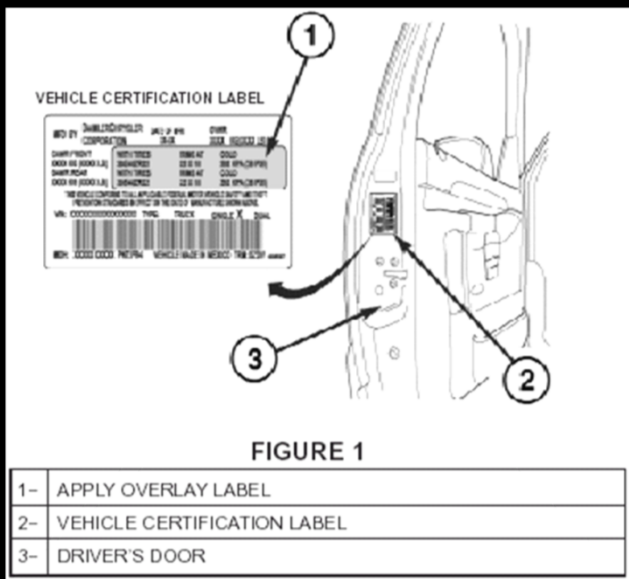
- ▶ Driver's side dashboard visible through the windshield from outside the car
- ▶ Also located on a decal in the drivers side door jam
- ▶ **Caution if using the VIN on the door jam**

VEHICLE SAFETY CERTIFICATION LABEL

- ▶ Attached to the left side pillar post or on the rearward-facing section of the left front door.
- ▶ Month and year of manufacture
- ▶ Gross vehicle weight rating (GVWR)
- ▶ Gross axle weight rating (GAWR)
- ▶ Vehicle Identification Number (VIN).



STI0349



GVWR



MFD BY GENERAL MOTORS CORP.

10/07

GVWR
2908KG(6411LB)

GAWR FRT
1450KG(3196LB)

GAWR RR
1600KG(3527LB)

THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

VIN #

1GKER33788J185785

TYPE: M.P.V.

US Safety Standards

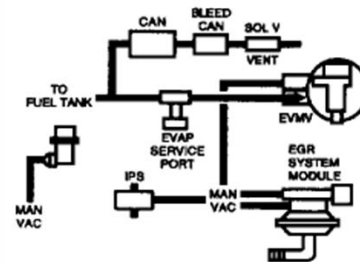

MODEL: R14526

| RBBM | TIRE SIZE | SPEED RTG | RIM | COLD TIRE PRESSURE |
|------|------------|-----------|---------|--------------------|
| FRT | P255/65R18 | S | 18X7.5J | 240KPA(35PSI) |
| RR | P255/65R18 | S | 18X7.5J | 240KPA(35PSI) |
| SPA | T145/70R17 | M | 17X4.5B | 420KPA(60PSI) |

SEE OWNER'S MANUAL  FOR MORE INFORMATION.

Production Date

Vehicle Emission Control Label (VECI)

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|
| <i>Ford Motor Company</i> | | VEHICLE EMISSION CONTROL INFORMATION | |
| This vehicle conforms to U.S. EPA regulations applicable to 2004 model year new IT2bin 10 light-duty trucks. This vehicle conforms to federal regulations and is certified for sale in California. ULEV qualified in California. OBD II certified. | | VACUUM HOSE ROUTING | |
| TWC/HO2S/EGR/SFI | |  | |
| Attention: Dyno Restrictions may apply. Vehicle may have: AWB, ABS, Traction Control | | | |
| Adjustments: Spark Plug Gap: .052-.056 No other adjustments needed. | | | |
| ▽4W7E-9C485- L A B |  | CATALYST | 4.6L-Group: 4FMXT05.4RFC Evap: 4FMXR0240NBM |

A0086703

Figure 1: Typical Vehicle Emission Control Information (VECI) Decal.

VECI LABEL

- ▶ Engine identification
- ▶ Required Emission Equipment
- ▶ Emissions standard that the vehicle meets
- ▶ Vacuum hose routing diagram
- ▶ Base ignition timing (if adjustable)
- ▶ Spark plug type and gap
- ▶ Valve lash
- ▶ Emission calibration code

CATALYST

Daimler
Corporation

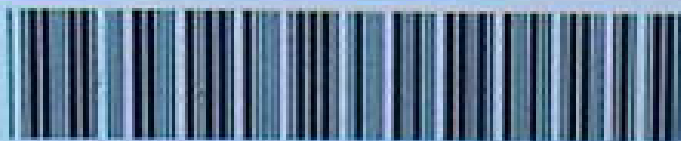
Model Year

04578405AA 

VEHICLE EMISSION CONTROL INFORMATION

THIS VEHICLE CONFORMS TO U.S. EPA INTERIM NON-TIER 2 BIN 8 REGULATIONS APPLICABLE TO GASOLINE FUELED 2006 MODEL YEAR NEW PASSENGER CARS AND QUALIFIES AS A ULEV 1 UNDER CALIFORNIA CLEANEST VEHICLE REGULATIONS.

ULEV ?



2TWC, 2HO2S(2), SFI,
OBDII CERTIFIED

Required
Emission
Equipment

Engine
Size

GAS
FACT
ADDI
* ADJ
MAY V
CAUTI

6.1
SCRXV
6CRXR

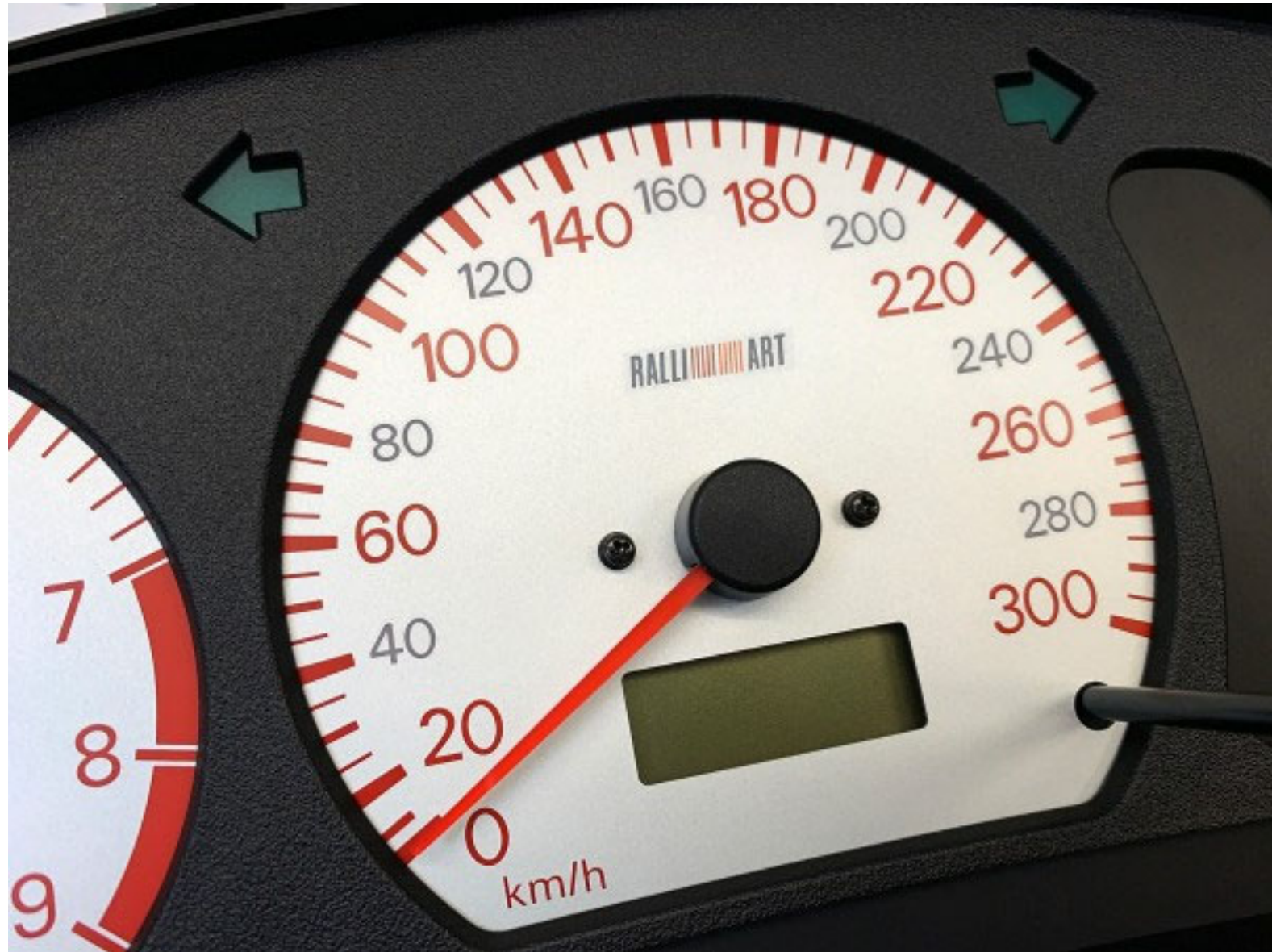
EMISSION STANDARDS

- ▶ Environmental Protection Agency (EPA)
 - ▶ In the United States, emissions standards are managed by the EPA as well as some U.S. state governments.
 - ▶ All vehicles sold outside of CA must meet Federal EPA emission standards.
- ▶ California Air Resources Board (ARB).
 - ▶ Regulates states emission standards.
 - ▶ The strictest standards in the world.
 - ▶ All vehicles sold new in California must meet these CA standards.



Grey Market Vehicles

- ▶ Vehicle that was not designed for sale in the United States
- ▶ It does not meet US Federal Safety Standards (airbags or passive belt systems)
- ▶ Probably doesn't not meet Federal or California emission standards either.
- ▶ How do you recognize these vehicles?



DATE 08/02

MFD. BY: TOYOTA MOTOR CORPORATION
GVWR/PNBV: 2500KG
GAWR/PNBE:



FRT. 1245KG WITH P265/70R16 TIRES.
16X7J RIMS. AT 32PSI COLD.
RR. 1355KG WITH P265/70R16 TIRES.
16X7J RIMS. AT 32PSI COLD.

COMPLY: ICES-2

TYPE
MPV/VTUM

JTEBT14R930001887



UZN215L-GKAGKA
C/TR 587/FA42
A/TM A01A/

A750F
MADE IN JAPAN
NO. 873

Identifying Grey Market Vehicles

- ▶ Vehicle Certification Label:
 - ▶ If the vehicle meets “*Canadian Safety Standards for vehicle model year 2000*” it is a Grey Market Vehicle.
 - ▶ If the speedometer is in kilometers
 - ▶ If the gauges are in liters
 - ▶ If the Vehicle Certification Label is printed in Arabic or some language other than English.
- ▶ Grey Market vehicles must be referred to the Referee for certification determination.
- ▶ If vehicle is certified by Referee, they will install a Referee label.
- ▶ This label supersedes the Emission Control Label on the vehicle.