

# List of Vehicles and E10 Compatibility

Technically, bioethanol-blended gasoline is a proven clean fuel and has shown various benefits. Most new and many older vehicle models can run on 10% ethanol-blended gasoline. The following table summarizes the list of automakers that approve the use of ethanol-blended gasoline:

## MOTOR VEHICLE INFORMATION ON COMPATIBILITY WITH BIOETHANOL

Source: The Australian Federation of Automotive Industries / Wheels Jamaica

### Holden

All gasoline (petrol) engine vehicles since 1986 will operate satisfactorily on E10 except as listed below.

The following models which do not operate satisfactorily on E10 fuel:

Apollo (1/87-7/89), Nova (2/89-7/94), Barina (1985-1994), Drover (1985-1987), Scurry (1985-1986), Astra (1984-1989).

### Ford

All petrol engine vehicles since 1986 will operate satisfactorily on E10 except as listed below.

The following models may not operate satisfactorily on E10 fuel because of drivability concerns: Focus (All), F-series (1986-1992), Ka (All), Maverick (1988-1993), Mondeo (All), Transit (1996 onwards).

The following models do not operate satisfactorily on E10 fuel:

Capri (1989-1994), Courier (All), Econovan (pre-2002), Festiva (1991-1999), Laser 1.3L & 1.5L (1980-1989), Laser 1.6L (1989-2002), Raider (All), Telstar (All).

### Mitsubishi

All petrol engine vehicles since 1986 will operate satisfactorily on E10.

Mitsubishi vehicles with carburettor fuel systems built before 1991 may experience hot fuel handling concerns and may experience a lower level of durability in some fuel system components.

### Toyota

All Toyota models manufactured locally or imported by Toyota Australia since 1987 will operate satisfactorily on E10 fuel except as listed below.

The following models will not operate satisfactorily on E10 fuel due to material compatibility issues:

Camry with carburettor engines pre July 1989 and Corolla pre July 1994. Supra - pre May 1993, Cressida - pre Feb 1993, Paseo - pre Aug 1995, Starlet - pre July 1999. Land Cruiser - pre Aug 1992, Coaster - pre Jan 1993, Dyna - pre May 1995, Tarago - pre Oct 1996, Hilux, Hiace, & 4 Runner - pre Aug 1997, Townace - pre Dec 1998.

### Alfa Romeo

All Alfa Romeo vehicles imported since 1998 must run on minimum 95 RON fuel (premium unleaded petrol).

Post 1998 Alfa Romeo vehicles will operate satisfactorily on E5 ethanol blended petrol (European

Standard EN 228). E10 ethanol blended petrol is not recommended as there are material compatibility and drivability issues. E10 may be used in emergency situations.

E10 ethanol blended petrol is not recommended for earlier model Alfa Romeo vehicles due to material compatibility issues.

### **Audi**

All current Audi vehicles must run on minimum 95 RON fuel (premium unleaded petrol). All Audi vehicle models since 1986 will operate satisfactorily on E10 except as listed below:

Audi A3 1.8L (Engine Code 'APG' 2000 onwards) and A4 2.0L (Engine Code 'ALT' 2001 onwards) will operate satisfactorily on E5 ethanol blended petrol (European Standard EN 228). However, E10 ethanol blended petrol is not recommended for these vehicle models as there are material compatibility and drivability issues. E10 may be used in emergency situations.

### **Bentley**

All petrol engine vehicles since 1990 will operate satisfactorily on E10.

### **BMW**

All petrol engine vehicles since 1986 will operate satisfactorily on E10.

### **Citroen**

All Citroen vehicles are required to run on minimum 95 RON fuel (premium unleaded petrol).

Citroen vehicles will operate satisfactorily on E5 blended petrol (European Standard EN 228). However, E10 blended petrol is not recommended because of drivability and/or material compatibility issues. E10 may be used in emergency situations.

### **Chrysler**

All petrol engine vehicles since 1986 will operate satisfactorily on E10. Daewoo GMDaewoo does not recommend the use of ethanol blended petrol.

### **Daihatsu**

Use of E10 in any Daihatsu model vehicles is not recommended because of material incompatibility.

### **Honda**

All Honda vehicles should use the fuel recommended in the Owner's Manual.

The following models will operate satisfactorily on E10: Insight - 2004 onwards; Civic range (including Civic Hybrid) - 2004 onwards; S2000 - 2004 onwards; CRV - 2003 onwards; MD-X - 2003 onwards; Accord & Accord Euro - 2003 onwards.

Honda does not recommend E10 for other vehicle models because there may be drivability issues.

### **Hyundai**

Hyundai vehicles will operate satisfactorily on E10, but if engine drivability concerns occur revert back to 100% unleaded petrol.

**Ferrari**

Ferrari does not recommend the use of ethanol blend petrol. E10 may be used in emergency situations. Jaguar All petrol engine vehicles since 1986 will operate satisfactorily on E10.

**Kia**

All petrol engined vehicles since 1996 will operate satisfactorily on E10 but if engine driveability concerns occur revert back to 100% unleaded petrol. Please refer to Owner's Manual for further details.

**Land Rover**

All petrol engine vehicles since 1986 will operate satisfactorily on E10.

**Lexus**

All models will operate satisfactorily on E10 except for the model listed below:

The following model will not operate satisfactorily on E10 fuel:  
IS200 - pre May 2002.

**Maserati**

Maserati does not recommend the use of ethanol blend petrol. E10 may be used in emergency situations.

**Mazda**

Mazda 323 1.8L (1994 onwards), Mazda 323 2.0L (2001 onwards), Mazda2 (11/02 onwards), Mazda3 (All), Premacy (5/02 onwards), Mazda6 (8/02 onwards), 800M and Millenia (8/98 onwards), RX-8 (7/03 onwards), MPV (8/99 onwards), Tribute (All) and E-series (2002 fuel injected models onwards) vehicles will operate satisfactorily on E10. All other models not listed above do not operate satisfactorily on E10.

**Mercedes-Benz**

All petrol engine vehicles since 1986 will operate satisfactorily on E10.

**MG**

MGF (2000 onwards), MG ZT (2002 onward) and MG TF (2002 onward) vehicles may operate satisfactorily on E10. However, use of E10 may affect engine calibration and emissions.

MGF (pre-2000) does not operate satisfactorily on E10.

**Nissan**

Nissan vehicles manufactured from 1 January 2004 onwards are capable of operation on ethanol-blended fuels up to E10 (10% ethanol), providing that blending of the ethanol component to the petroleum component of the fuel has been properly made at the fuel refinery (ie there is no "splash-blending" of the fuel).

For Nissan vehicles manufactured prior to 1 January 2004, Nissan Australia does not recommend the use of E10 because of drivability concerns and/or material compatibility issues.

**Peugeot**

All Peugeot vehicles are required to run on minimum 95 RON fuel (premium unleaded petrol).

Peugeot vehicles will operate satisfactorily on E5 blended petrol (European Standard EN 228). However, E10 blended petrol is not recommended because of drivability and/or material compatibility issues. E10 may be used in emergency situations.

**Proton**

All petrol engine vehicles since 1986 will operate satisfactorily on E10.

**Rover**

Rover 75 (2001 onwards) vehicles may operate satisfactorily on E10. However, use of E10 may affect engine calibration and emissions.

**Renault**

All petrol engine vehicles since 2001 will operate satisfactorily on E10 but Renault does not recommend its use

**Rolls Royce**

All petrol engine vehicles since 1990 until 2002 will operate satisfactorily on E10.

**Saab**

All petrol engine vehicles since 1986 will operate satisfactorily on E10.

**Subaru**

Subaru Liberty B4 (all year models) and Impreza WRX STI (1999 and 2000) do not operate satisfactorily on E10.

All other since MY1990 petrol engine Subaru vehicles will operate satisfactorily on E10.

**Suzuki**

Suzuki Alto, Mighty Boy, Wagon R+, Swift/Cino, Ignis Sport (1.5 litre requires 98RON), Sierra, Stockman, Vitara, X-90, Jimny (SOHC) and Super Carry vehicles do not operate satisfactorily on E10.

Suzuki Baleno and Baleno GTX will operate satisfactorily on E10 but Suzuki does not recommend its use in these vehicles.

Ignis (1.3 litre), Liana, Grand Vitara/XL-7, Jimny (DOHC) and Carry (1.3 litre) vehicles will operate satisfactorily on E10.

**Volkswagen**

All Volkswagen vehicles will operate satisfactorily on E10, but Volkswagen does not recommend it.

**Volvo**

All petrol engine vehicles since 1986 will operate satisfactorily on E10.