

SERVICE INFORMATION BULLETIN

Subject:

REQUIREMENTS OF BIOFUEL USAGE FOR 2008MY THRU 2012MY VEHICLES

This document is to inform dealers and workshops of the contents.

1. RELEVANT MODELS:

2008MY, 2009MY, 2010MY, 2011MY and 2012MY

2. CONDITION OF BIOFUEL USAGE:

1) 2008MY, 2009MY, 2010MY

{Up to B5: Available with Conditions}

{Above B5 to below B20: Not available}

2) 2011MY, 2012MY

{Up to B5: Available with Conditions}

{Above B5 to below B20: Available with Conditions}

3. CONDITION DETAILS:

1) 2008MY, 2009MY, 2010MY

{Up to B5: Available with Conditions}

Biofuel blend stock (B100) must be compliant to ASTM D6751, and blended fuel must be compliant to ASTM D975.

{Above B5 to below B20: Not available}

More than B5 Biofuel can not be used.

The use of Biofuel in excess of B5 will void engine warranty.

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2) 2011MY, 2012MY

{Up to B5: Available with Conditions}

1. Biofuel blend stock (B100) must be compliant to ASTM D6751, and blended fuel must be compliant to ASTM D975.
2. Following materials must not be used in fuel or fuel system components.
Natural rubber, Butyl rubber, Nitrile rubber, Copper, Bronze, Brass, Tin, Lead and zinc

{Above B5 to below B20: Available with Conditions}

1. Biofuel blend stock (B100) must be compliant to ASTM D6751, and blended fuel must be compliant to ASTM D7467.
2. Use fuel within 6 months from manufacturing date, in addition, use it up within 3 months after fueling, because the oxidation stability of Biodiesel is lower than diesel fuel.
3. When switching to the Biofuel which tends to dissolve the deposits generated by using normal diesel fuel, it is required that tank and piping are cleaned and fuel filter elements are changed.
4. Clean storage tank thoroughly, and be careful of water and occurrence of microorganisms.

ENGINE COMPONENT

1. Periodical cleaning with specified injector cleaner is recommended.
Injector cleaner{Part name: Diesel cleaner Part No: S2367-E0010}
2. Frequently check engine oil level, and if oil dilution occurs, change oil.
Oil change interval will be shorter than normal.
3. An additional fuel filter is recommended. Change the filter at 10,000 mile intervals.
4. Comparing to regular fuel, more water accumulates in sedimenter, therefore, frequently drain the water from sedimenter.
5. In cold climate, the use of an appropriate fuel heater is recommended.
6. Following materials must not be used in fuel or fuel system components.
Natural rubber, Butyl rubber, Nitrile rubber, Copper, Bronze, Brass, Tin, Lead and zinc

FUEL DISTRIBUTION

1. Purchase from fuel handlers licensed under BQ9000.

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	Requirement	Up to B5		
		2008MY-2010MY J08E-TV,TW / J05D-TF	2011MY-2012MY J08E-VB,VC	2012MY J05E-TP
Feature	Injection System	# Common Rail 186MPa Injector Nozzle DLC	# Common Rail 200MPa Injector Nozzle, Valve DLC	←
	DPR Regeneration	Post Injection	Burner	After Treatment Fuel Injector
Fuel System	Requirement of Fuel Property	Fuel should be adopted to Biofuel standard ASTM D6751 and blended fuel standard ASTM D975	←	←
	Fuel Expiration Date	No particular condition	←	←
	Usage Start Date	No particular condition	←	←
	Fuel Storage	No particular condition	←	←
Engine Component	Injector	When using biofuel special purpose injector must be changed.	No particular condition	←
	Injector Cleaner	Periodic cleaning with specified injector cleaner is recommended. (If deposit is found in fuel system, periodically clean injector after removing deposit.)	No particular condition	←
	Engine Oil	No particular condition	←	←
	Fuel Filter	No particular condition	←	←
	Sedimenter	No particular condition	←	←
	Fuel Heater	No particular condition	←	←
	Caution against Fuel	Following materials must not be used in fuel. Natural rubber, Butyl rubber, Nitrile rubber, Copper, Bronze, Brass, Tin, Lead and Zinc	←	←
Fuel Distribution	Fuel Handler	No particular condition	←	←

#DLC: Diamond Like Carbon coating on injector nozzle.

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Requirement	Above B5 to below B20			
	2008MY-2010MY J08E-TV,TW	2011MY-2012MY J08E-VB,VC	2012MY J05E-TP	
Feature	Injection System	# Common Rail 186MPa Injector Nozzle DLC	# Common Rail 200MPa Injector Nozzle, Valve DLC	←
	DPR Regeneration	Post Injection	Burner	After Treatment Fuel Injector
Fuel System	Requirement of Fuel Property	Can not be used. (If more than 5% Biofuel is used warranty coverage will be void.)	Fuel should be adopted to Biofuel standard ASTM D6751 and blended fuel standard ASTM D7467	←
	Fuel Expiration Date		Use fuel within 6 months from manufacturing date, in addition, use it up within 3 months after fueling	←
	Usage Start Date		When switching to Biofuel, it is required that tank and piping are cleaned and fuel filter elements are changed.	←
	Fuel Storage		Clean storage tank thoroughly and be careful of water and occurrence of microorganisms.	←
Engine Component	Injector	Can not be used. (If more than 5% Biofuel is used warranty coverage will be void.)	No particular condition	←
	Injector Cleaner		Periodic cleaning with specified injector cleaner is recommended (If deposit is found in fuel system, clean injector after removing the deposit.)	←
	Engine Oil		Frequently check oil level, and if oil dilution occurs, change oil. Oil change interval is shorter than usual.	←
	Fuel Filter		An additional fuel filter is recommended. Change filter at every 10000 mile interval	←
	Sedimenter		Comparing to regular fuel, more water accumulates in sedimenter, so frequently drain the water from sedimenter. If water accumulates in sedimenter, check lamp is turned on. If turned on, clean fuel line and fuel filter.	←
	Fuel Heater		In cold climates, attachment of an appropriate fuel heater is recommended	←
	Caution against Fuel		Following materials must not be used in fuel. Natural rubber, Butyl rubber, Nitrile rubber, Copper, Bronze, Brass, Tin, Lead and Zinc.	←
Fuel Distribution	Fuel Handler	Purchase from fuel handlers licensed under BQ9000	←	

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