

## FUEL SYSTEM [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

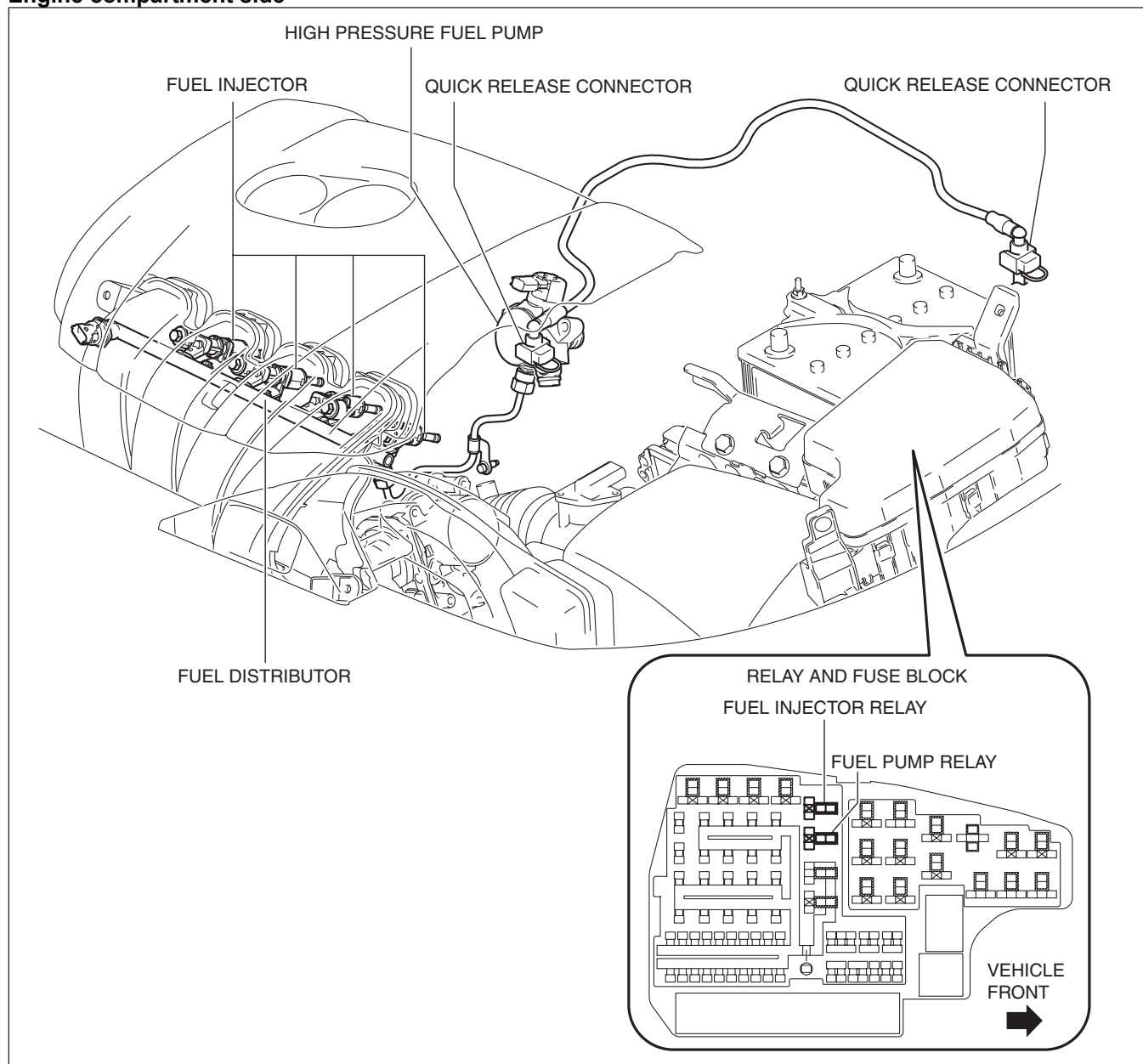
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### Outline

- A multiple hole type fuel injector has been adopted which provides higher fuel injection accuracy for improved fuel efficiency and output.
- Piston movement-compression by the 4-head cam inside the high pressure fuel pump heightens the fuel pressure, achieving improved fuel efficiency and output.

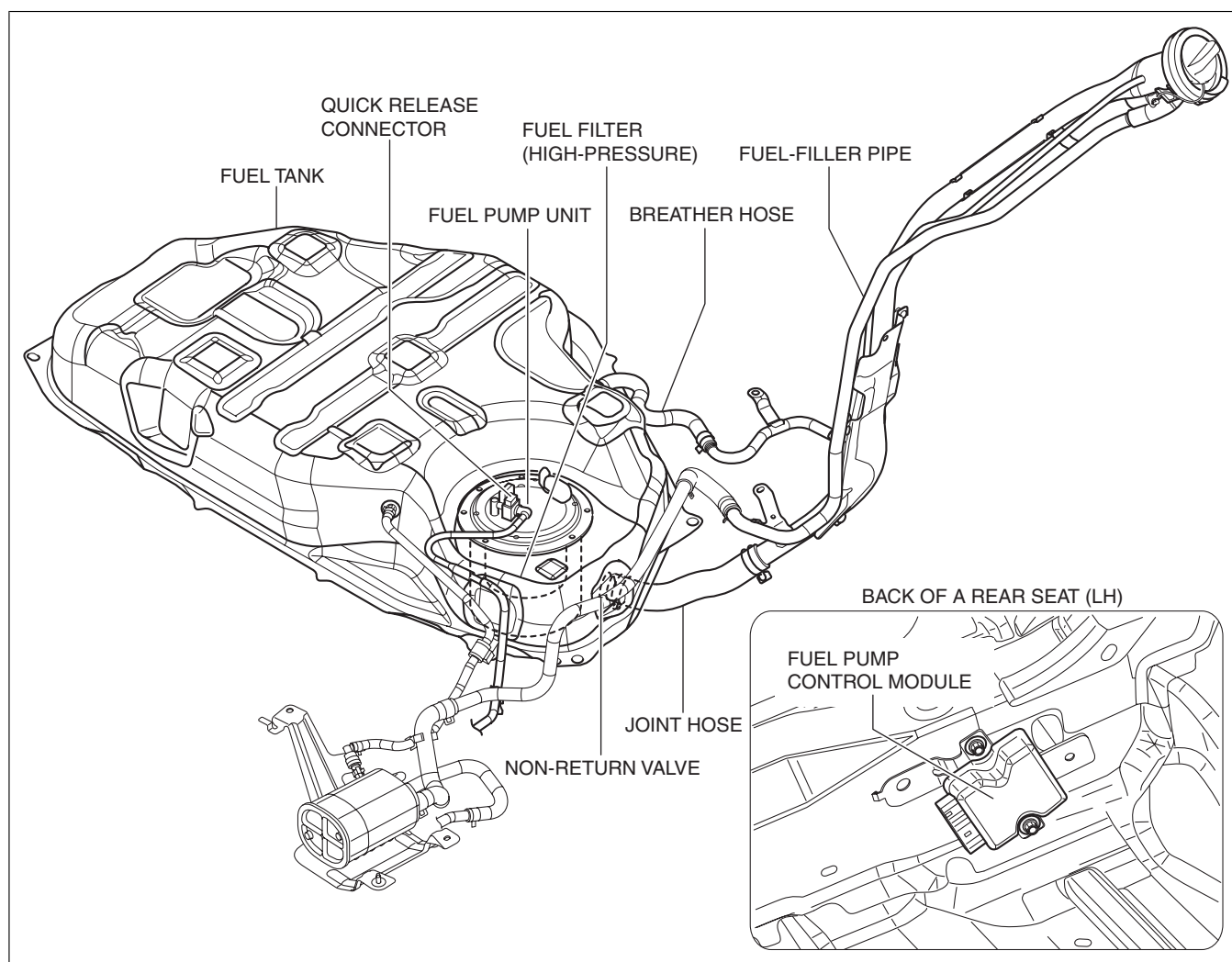
### Structural View

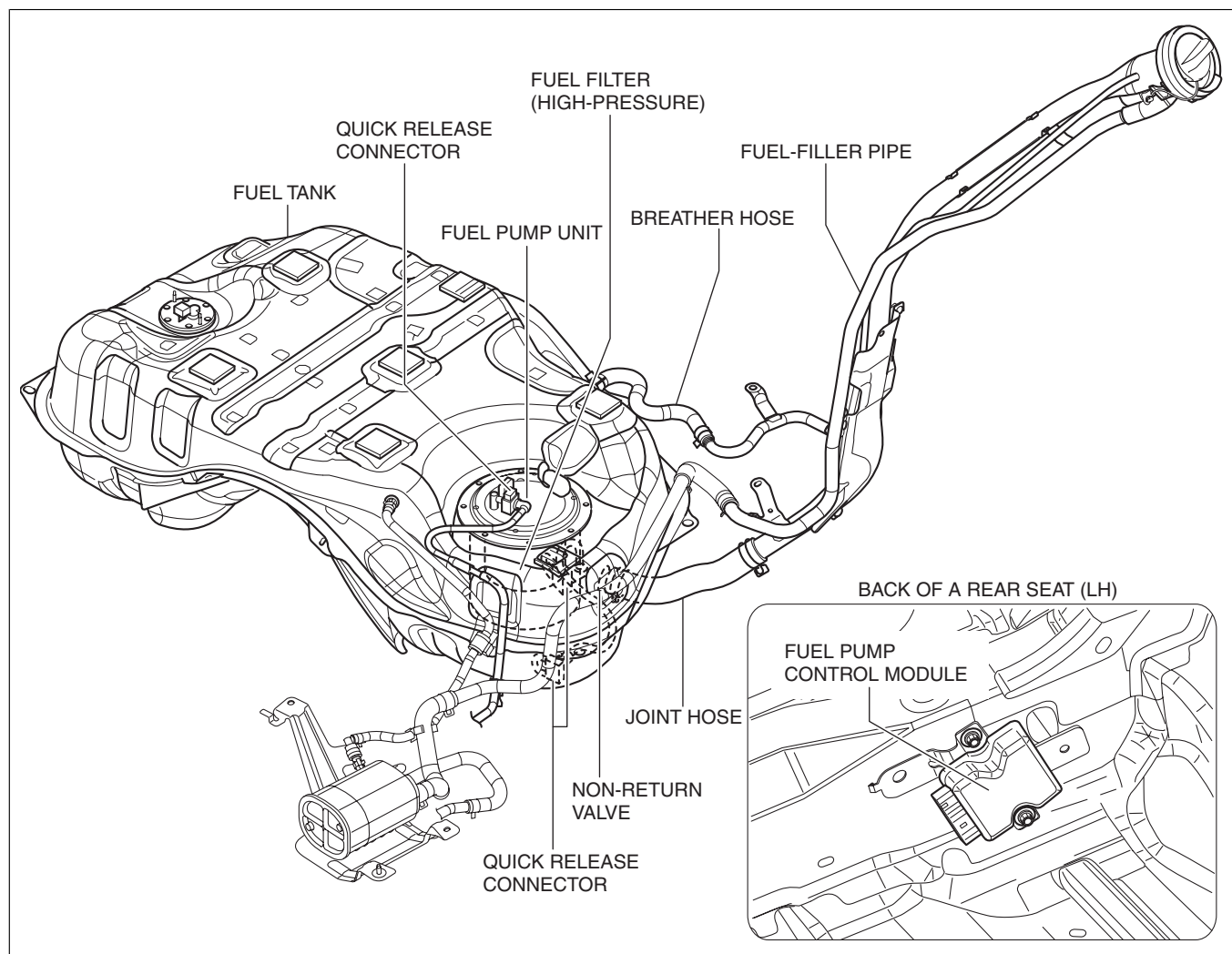
#### Engine compartment side



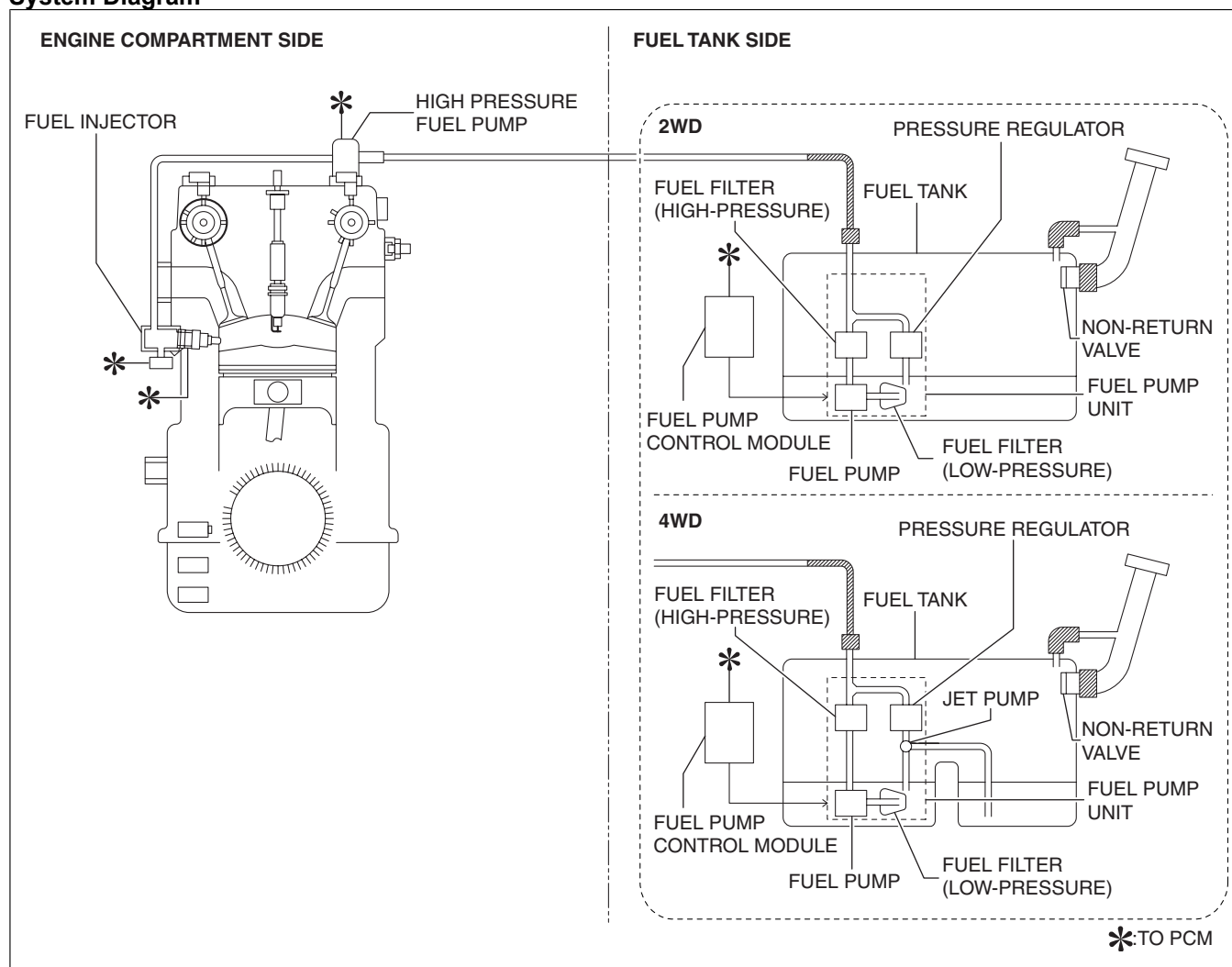
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#### Fuel tank side





## System Diagram



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## Structure

- The fuel system consists of the following parts:

Part/System name		Reference
Return-less fuel system (See RETURNLESS FUEL SYSTEM [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	Fuel pump unit	(See FUEL PUMP UNIT [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	High pressure fuel pump	(See HIGH PRESSURE FUEL PUMP [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	Fuel distributor	(See FUEL DISTRIBUTOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
Direct fuel injection system (See DIRECT FUEL INJECTION SYSTEM [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	Fuel injector	(See FUEL INJECTOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	Fuel tank	(See FUEL TANK [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
Non-return valve		(See NON-RETURN VALVE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
Fuel pump relay		(See FUEL PUMP RELAY [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
Fuel injector relay		(See FUEL INJECTOR RELAY [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
Fuel pump control module		(See FUEL PUMP CONTROL MODULE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)

Part/System name	Reference
Quick connector (fuel system)	(See QUICK RELEASE (FUEL SYSTEM) CONNECTOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)

## Specification

Item		Specification
Fuel injector	Type	High resistance
	Fuel supply method	Top-feed
	Drive types	Electronic
Pressure regulator control pressure	(kPa {kgf/cm <sup>2</sup> , psi})	Approx. 430 {4.38, 62.4}
Fuel pump type		Electric
Fuel tank capacity	(L {US gal, Imp gal})	2WD 56.0 {14.8, 12.3}
		4WD 58.0 {15.3, 12.8}

## Fuel type

Fuel	Research Octane Number	Country
Premium unleaded fuel (Conforming to EN 228 and within E10)* <sup>1</sup>	95 or above	New Caledonia, Turkey, Azerbaijan, Armenia, Georgia, Canary Islands, Reunion, Morocco, Austria, Greece, Italy, Switzerland, Belgium, Denmark, Finland, Norway, Portugal, Spain, Sweden, Hungary, Germany, Poland, Bulgaria, Croatia, Slovenia, Luxembourg, Slovakia, Latvia, Lithuania, Russia, Belarus, France, Ukraine, Czech, Estonia, Faeroe, Iceland, Romania, The Netherlands, Macedonia, Bosnia and Herzegovina, Serbia, Montenegro, Albania, Moldova, Martinique, F.Guiana, Guadeloupe, Cyprus, Malta, Ireland, UK, Tahiti, Vanuatu, Iran, UAE, Lebanon, Israel, Algeria, Libya, Tunisia, Madagascar, Guatemala, Bolivia, Honduras, Nicaragua, Aruba, Singapore, Hong Kong, Malaysia, Macau, Mauritius, Jamaica, Barbados, Grenada, St. Lucia, St. Vincent, Antigua
Regular unleaded fuel (Conforming to Fuel Quality Standards Act 2000)* <sup>2</sup>	90 or above	Taiwan, Vietnam, The Philippines, Marshall Islands, Ustt* <sup>3</sup> , Kuwait, Oman, Qatar, Saudi Arabia, Syria, Bahrain, Jordan, Nigeria, Angola, Chile, El Salvador, Costa Rica, Ecuador, Haiti, Colombia, Dominican Republic (LHD), Panama, Peru, B. Virgin, Curacao, St. Martin, Indonesia, Thailand, Brunei, Nepal, Sri Lanka, Fiji, Papua New Guinea, Zimbabwe, South Africa, Trinidad and Tobago, Commonwealth of Dominica, Australia
	92 or above	Egypt
	93	China

\*1 : Europe

\*2 : Australia

\*3 : Republic of Palau & Federated States of Micronesia