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## Fuel Charging and Controls - ID4 2.4L Diesel - Fuel Metering Valve

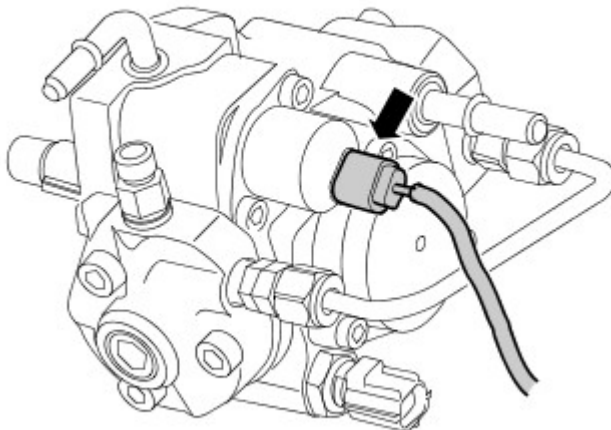
### Removal and Installation

#### Removal

#### WARNINGS:

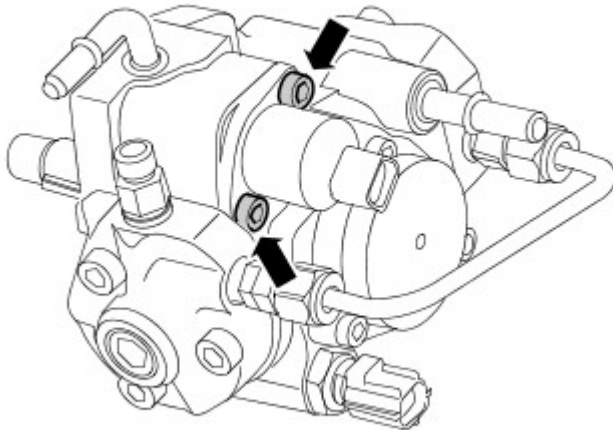
 **CAUTION:** Diesel fuel injection equipment is manufactured to very precise tolerances and fine clearances. It is therefore essential that absolute cleanliness is observed when working with these components. Always install new blanking plugs to any open orifices or lines. Failure to follow this instruction may result in foreign matter ingress to the fuel injection system.

1. Open the front door.
1. Remove the front seat cushion assembly.
1. Remove the battery cover.
1. Disconnect the battery ground cable. For additional information, refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).
1. Open the bonnet.
  1. Disconnect the fuel metering valve electrical connector.



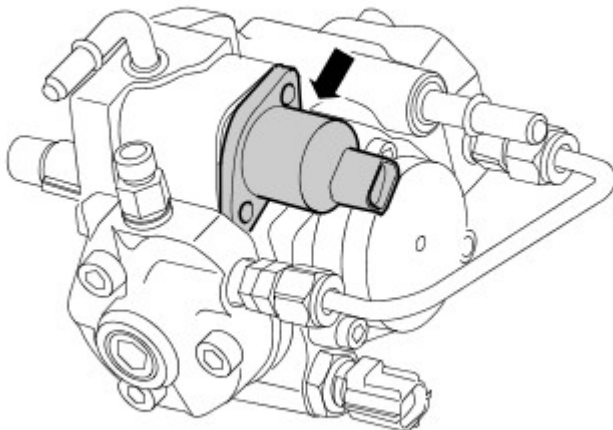
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1. Remove the 2 fuel metering valve securing bolts.



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1. Remove the fuel metering valve.

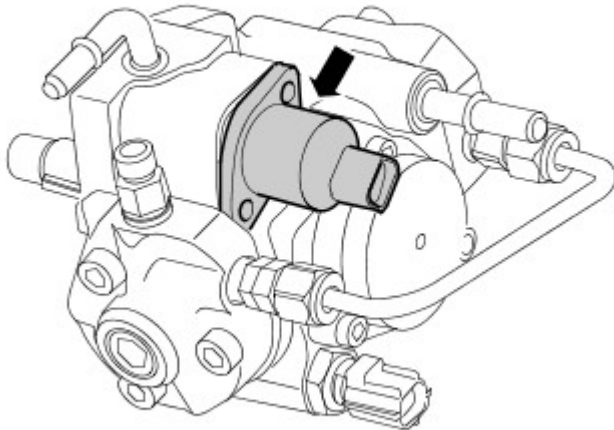


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1. Using the pneumatic vacuum gun, vacuum foreign material from the high-pressure fuel supply lines, the fuel rails and the fuel injection pump.  
For additional information, refer to: [Fuel Injection Component Cleaning](#) (303-04A Fuel Charging and Controls - ID4 2.4L Diesel, General Procedures).

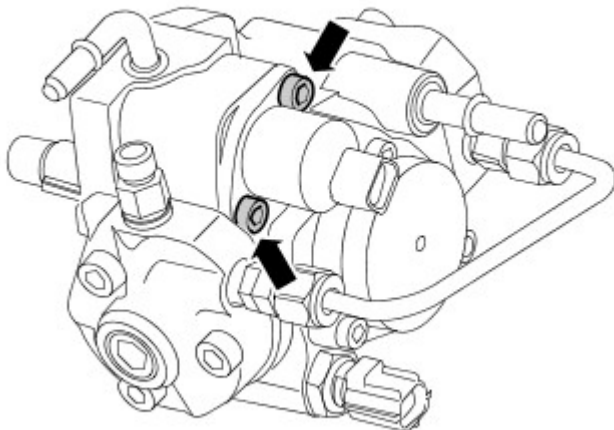
## Installation

1. Install the fuel metering valve with new seal and gasket.



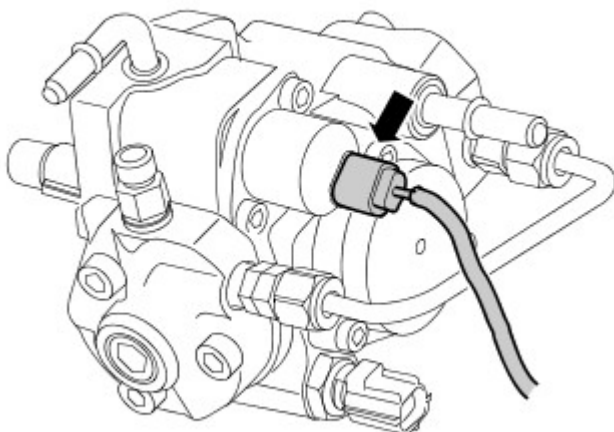
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1. Install the 2 fuel metering valve securing bolts.
  - Stage 1 tighten bolts to 5 Nm (4 lb.ft).
  - Stage 2 tighten bolts to 8 Nm (6 lb.ft).



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1. Connect fuel metering valve electrical connector.



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1. Close the bonnet.
1. Connect the battery ground cable.  
For additional information, refer to:  
[Battery Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).
1. Install the battery cover.
1. Install the front seat cushion assembly.
1. Close the front door.
1. Using the Land Rover approved diagnostic system carry out the pump learn procedure found in the set-up and configuration section.