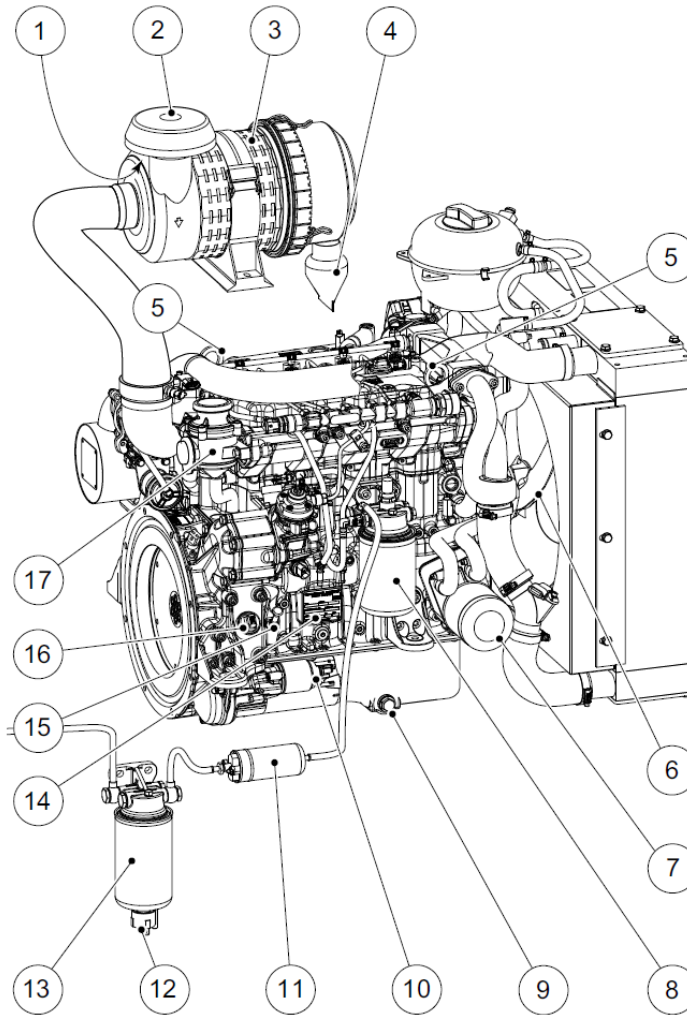




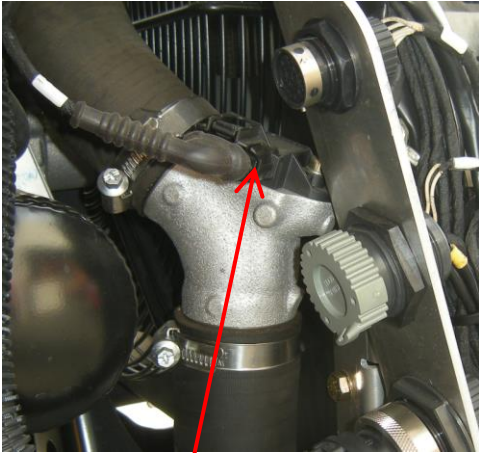
This bulletin is provided for technical reference and service related updates. If you have any questions, comments or do not wish to receive these e-mails, please reply to this e-mail or call the Service Technical Support Group 800 478-1244.

ENGINE COMPONENT IDENTIFICATION HATZ 4H50TIC

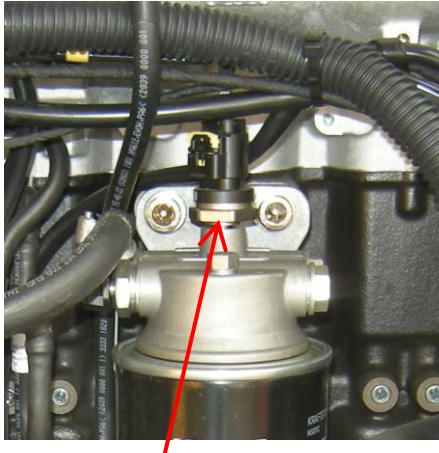
This document can be used as a guide when servicing, troubleshooting, identifying and locating engine components.



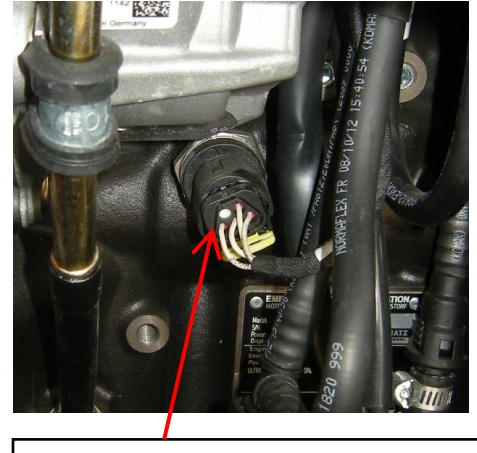
1	Intake Opening for Combustion Air	10	Starter
2	Rain Cap	11	Electric Fuel Pump
3	Air Filter	12	Frain Filter on Fuel Pre-filter
4	Dust Discharge Valve	13	Fuel Pre-filter
5	Lifting Eyes	14	Engine Type Plate
6	Fan	15	Dipstick
7	Oil Filter	16	Oil Filter Plug
8	Fuel Line Filter	17	Crankcase Ventilation
9	Side Oil Drain Screw		



Boost Pressure Sensor (BPS)
(Pressure & Temperature)

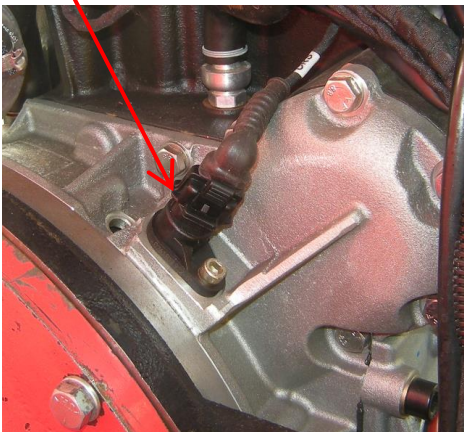


Fuel Temperature & Pressure Sensor

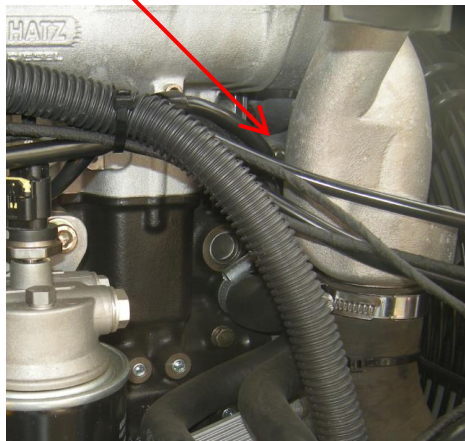


Oil Pressure & Temperature Sensor
(OPS)

Crankshaft Speed Sensor

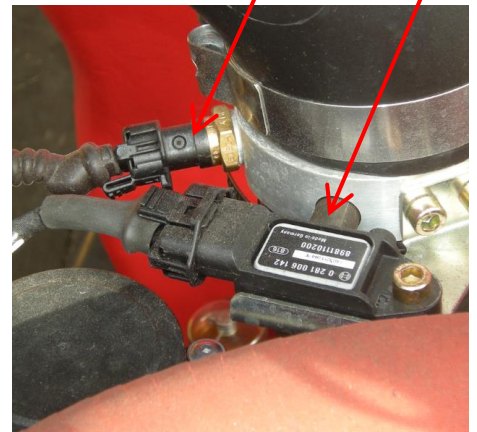


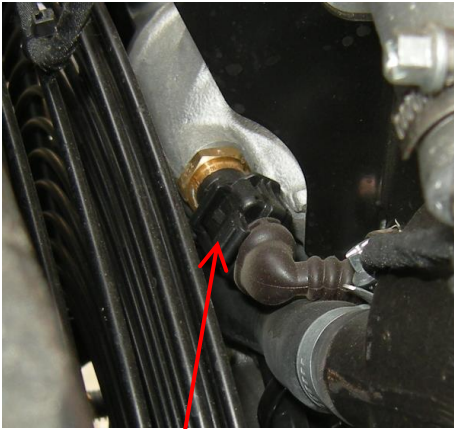
Camshaft Speed Sensor



Air Filter Down Pressure Sensor (AFDPS)

Air Temperature Sensor (ATS)

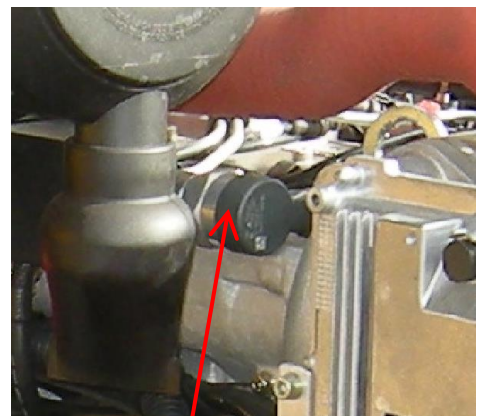




Coolant Temperature Sensor (CTS)

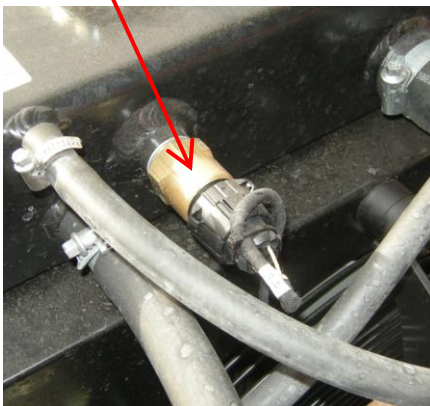


Rail Pressure Sensor (RPS) / (RDS) wire
Max pressure 1,800 bar (26,100 PSI)



Rail Pressure Valve (RPV) / (DRV) wire
(Regulates Pressure)

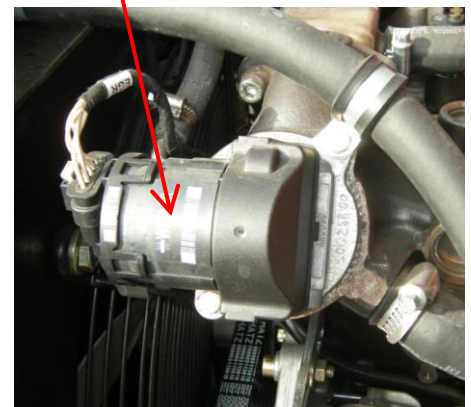
Coolant Level Sensor (CLS)

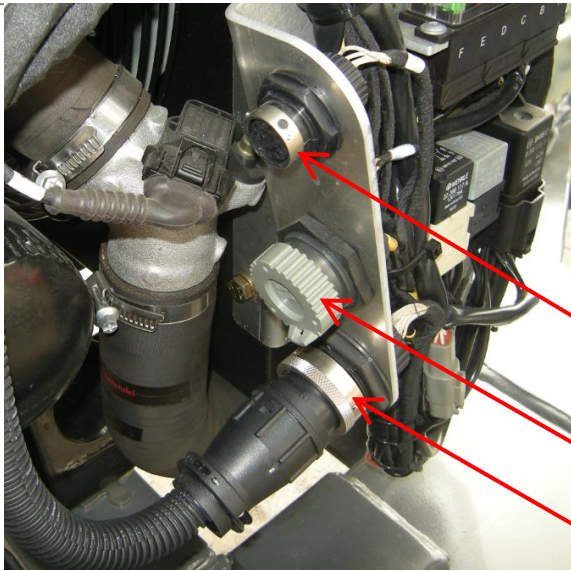


Water Fuel Sensor (WFS)



Exhaust Gas Recirculation (EGR) Actuator





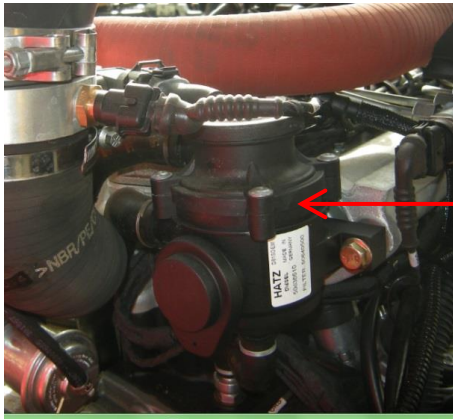
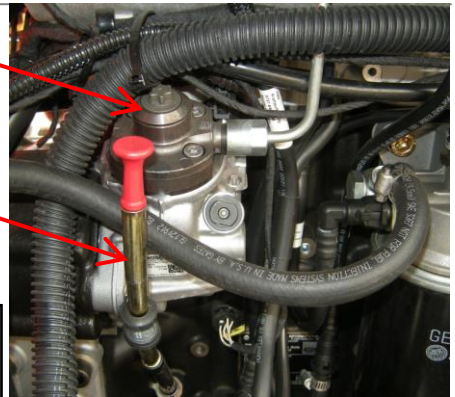
High Pressure Pump
(CAUTION) Running the Engine out of fuel may cause permanent damage.

Dip Stick
500 hours High to Low.

Foot pedal accelerator accessory connection N/A

Interface connection

Control Box Harness to ECU



Crankcase Breather Valve.
Replaceable filter inside, remove four screws to access, replace at 500 hours.

Fuel Pump
Max 5 bar (72.5 PSI)

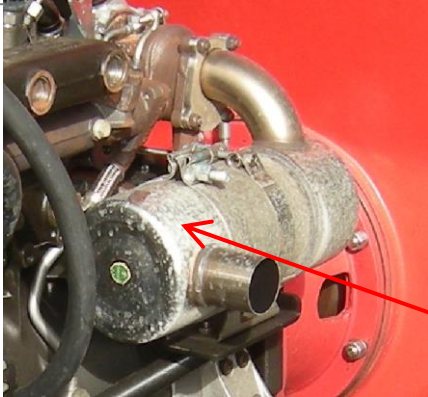


Fuse Box

Starter Relay

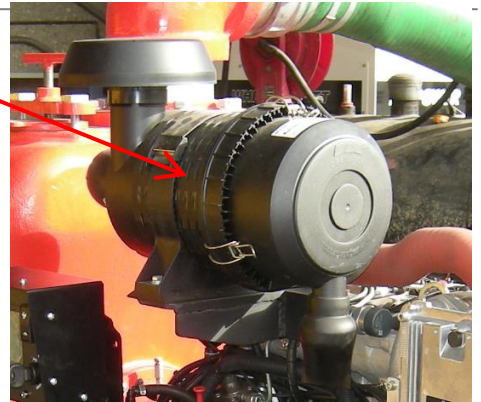
Fuel Feed Pump Relay

Pre-glow Relay



Air Filter – two stage type system.

Catalytic Converter



Injector lines

- * **NEVER** loosen while cranking or running, (Max 26,100 PSI)
- * **ONE TIME USE ONLY** – replace if loosened for any reason.

Hydraulic Lifters – maintenance free.



Alternator – 110A

