

GLOW PLUG TROUBLE TRACER CHART

Perfection
built in



Destroyed/lacking probe tip

Cause:

- Ignition unit failure.
- Incorrect/irregular fuel jet direction.
- Incorrect number or size of sealing causing incorrect spraying position.

Remedy:

- Check the correspondence of ignition unit with the car type and proper installation of the ignition unit.
- Check glow plug installation hole for carbon fouling.
- Replace your plugs



Dimples on the probe tip

Cause:

- Ignition unit failure.
- Incorrect/irregular fuel jet direction.
- Incorrect number or size of sealing causing incorrect spraying position.

Remedy:

- Check the correspondence of ignition unit with the car type and proper installation of the ignition unit.
- Check glow plug installation hole for carbon fouling.
- Replace your plugs



Broken probe tip

Cause:

- Glowing time too long or voltage too high (12-V glow plug used in the 24-V system or vice versa).
- Alternator & regulator failure.

Remedy:

- Check glow plug regulator (contacts).
- Check on-board voltage and glow plug voltage.
- Check charging system voltage.
- Replace your plugs



"Swollen" probe tip

Cause:

- Excessive voltage (12-V glow plug used in the 24-V system or vice versa)
- Alternator & regulator failure.
- Inappropriate storage (moisture).

Remedy:

- Check on-board voltage and glow plug operation voltage.
- Check charging system.
- Check storage conditions.
- Replace your plugs



Bulging ring on the probe tip

Cause:

- Oil in the combustion chamber (probable cause: car engine wear).

Remedy:

- Check piston tightness in engine cylinders.
- Check engine oil consumption.
- Replace your plugs



Probe deformation (due to overheating)

Cause:

- Ignition unit failure.
- Incorrect/irregular fuel jet direction.
- Incorrect number or size of sealing causing incorrect spraying position.
- Glowing time too long or excessive voltage (12-V glow plug used in the 24-V system or vice versa)
- Alternator & regulator failure.
- Injection unit operation/timing failure.

Remedy:

- Check the correspondence of the ignition unit with the car type and proper installation of the ignition unit.
- Check glow plug installation hole for carbon fouling. Check glow plug regulator (contacts).
- Check on-board voltage and glow plug voltage.
- Check charging system voltage.
- Check fuel injection timing.
- Replace your plugs



Lacking probe

Cause:

- Ignition unit failure.
- Incorrect/irregular fuel jet direction.
- Incorrect number or size of sealing causing incorrect spraying position.
- Injection unit operation/timing failure.
- Damaged glow plug installation hole thread in the cylinder head/not tightened glow plug causing incorrect plug seating.

Remedy:

- Check the correspondence of the ignition unit with the car type and proper installation of the ignition unit.
- Check the glow plug installation hole thread in the cylinder head for damage/carbon fouling.
- Check ignition pump timing.
- Replace your plugs



Probe perforation, fissures or melting close to the glow plug body

Cause:

- Ignition unit failure.
- Incorrect/irregular fuel jet direction.
- Incorrect number or size of sealing causing incorrect spraying position.
- Injection unit operation/timing failure.
- Damaged glow plug installation hole thread in the cylinder head/not tightened glow plug causing incorrect plug seating.

Remedy:

- Check the correspondence of the ignition unit with the car type and proper installation of the ignition unit.
- Check the glow plug installation hole thread in the cylinder head for damage/carbon fouling.
- Check ignition pump timing.
- Replace your plugs



Probe in contact with the glow plug body

Cause:

- Tightening torque too high.
- Inappropriate tool used or damage of the cylinder head hole thread.

Remedy:

- Check the cylinder head hole thread for damage/carbon fouling.
- Check correct glow plug tightening.
- Replace your plugs



Carbon fouling between the plug body and the probe glow

Cause:

- Ignition unit failure.
- Incorrect/irregular fuel jet direction.
- Incorrect number or size of sealing causing incorrect spraying position.
- Ignition pump operation/timing failure.

Remedy:

- Check the correspondence of the ignition unit with the car type and proper installation of the ignition unit.
- Check the glow plug installation hole thread in the cylinder head for carbon fouling.
- Check ignition pump and its timing.
- Replace your plugs



Carbon fouling in the glow plug seat

Cause:

- Incorrect glow plug seating.

Remedy:

- Check the glow plug installation hole thread in the cylinder head for damage/carbon fouling.
- Check correct tightening of the glow plug.
- Replace your plugs



Damaged glow plug hexagon/thread

Cause:

- Tightening torque too high.
- Inappropriate tool used or damage of the cylinder head hole thread.

Remedy:

- Check the glow plug installation hole thread in the cylinder head for damage/carbon fouling.
- Check correct tightening of the glow plug.
- Replace your plugs



Power supply terminal bent

Cause:

- Tightening torque too high. Inappropriate tool used or damage of the cylinder head hole thread.

Remedy:

- Check the glow plug installation hole thread in the cylinder head for damage/carbon fouling.
- Check correct tightening of the glow plug.
- Replace your plugs



Power supply terminal broken off

Cause:

- Tightening torque too high.
- Inappropriate tool used or damage of the cylinder head hole thread.

Remedy:

- Check the glow plug installation hole thread in the cylinder head for damage/carbon fouling.
- Check correct tightening of the glow plug.
- Replace your plugs



Other damage

Cause:

- Ignition unit failure, incorrect/irregular fuel jet direction.
- Incorrect number or size of sealing causing incorrect spraying position.
- Glowing time too long.
- Ignition pump operation/timing failure

Remedy:

- Check the correspondence of the ignition unit with the car type and proper installation of the ignition unit.
- Check the glow plug installation hole thread in the cylinder head for carbon fouling.
- Check glow plug regulator (contacts).
- Check the ignition pump and its timing.
- Replace your plugs

