

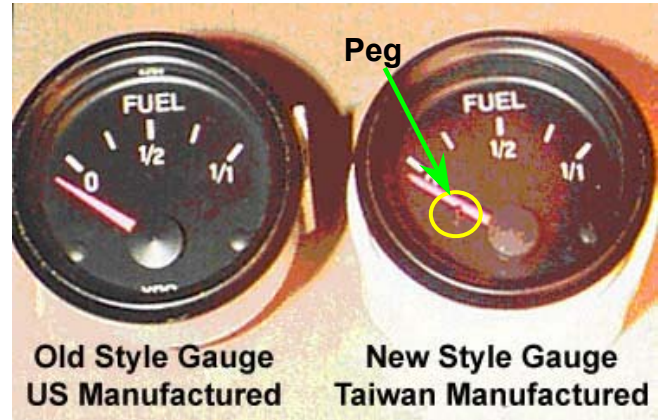
VDO Fuel Gauge for LNG

Effective 8/15/97 VDO shut down its US gauge manufacturing plant and began to manufacture all their fuel gauges at a plant located in Taiwan. Although the gauges look nearly identical from the front, they are not interchangeable on LNG vehicle tanks. Mixing US manufactured gauges with new senders or visa-versa will result in gauges that are not calibrated.

- An old style (US manufactured) gauge with a new sender will never read above $\sim\frac{1}{2}$ tank and run for a long time on Empty.
- A new style (Taiwan manufactured) gauge with an old sender will run out of fuel at $\sim\frac{1}{4}$ tank and stay on Full for a long time.

The gauges can easily be distinguished from one another if they are out of the panel. The old style gauge is panel mounted via a steel U shaped clamp and two nuts. The new style gauge is threaded and panel mounts via a large plastic nut. The only readily visible difference from the front is that the new style gauge has an stop peg the gauge needle rests against when the needle is resting on Empty. The old style gauge does not have a stop peg. Refer to Gauges Photo in next column for location stop peg on new style gauge.

Since the sending units have not changed, the only way to tell a new sender from an old sender is by the date on the tank.



Gauges Photo

Functionally the old and new units are the same, so there is no compelling reason to change out old style units to new if they are functioning properly. The problems that have been arising are a result of using old tanks and parts as replacements for new and sending in old tanks for repair with no sending unit.

If the gauge and sender are mismatched, the simplest fix is to replace the gauge in the dash with one appropriate for the age of the tank. NexGen Fueling still has a limited stock of old style VDO gauges for replacement parts. The other option for old tanks is to install a new gauge and have the sender re-calibrated. This would make the sender and gauge interchangeable with new production.

Old Style VDO Gauge-10542399

New Style VDO Gauge-10923888

Re-calibrated Sender-11055867 R

New Sender-11055867

This procedure is for use by trained mechanics experienced with using Liquefied Natural Gas systems and vacuum technology. Review all pertinent safety documents before starting this procedure.