

TQ-125 Linkage Installation and Adjustment

General

The linkage kit for the TQ-125 generally consists of the following parts: two rod ends, a terminal lever, a length of threaded rod, and the associated hardware to attach these items between the TQ-125 and the prime mover fuel control.

Linkage Compatibility

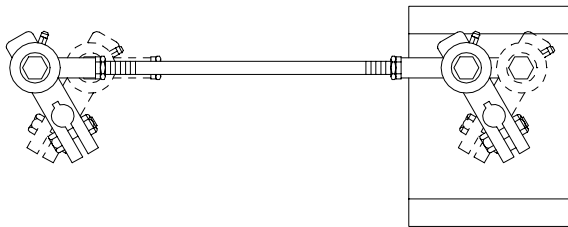
Match the actuator's direction of rotation with the fuel control's direction of increased fuel. The TQ-125 has a counterclockwise rotation as viewed from the shaft end for an increase fuel condition.

The linkage for diesel engine applications should be linear, and matched to the TQ-125. The TQ-125 has a 60° shaft rotation. Carbureted engines will require a carburetor compensating (non-linear) linkage. Incorrect linearity matching can cause stable operation at some fuel settings but oscillation at other fuel settings.

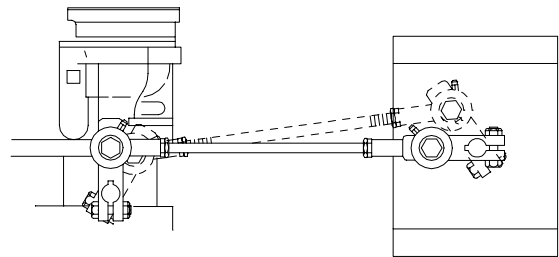
Manually stroke the fuel control linkage from stop to stop as if the actuator were moving it. The linkage should not bind or have play in it. Lubricate or replace linkage or fuel control parts as required.

Make sure the actuator is capable of moving the fuel control to maximum and minimum limits. Let the fuel control limit actuator travel. Set the linkage so the actuator is just above minimum when the fuel control is at its minimum stop and so the actuator is just below maximum when the fuel control is at its maximum stop.

A positive shutdown device, such as a spring, is required to ensure shutdown upon loss of signal to the TQ-125.



LINEAR LINKAGE



NON-LINEAR LINKAGE

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