



## Texas T Parts

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## New High Volume Outside Oil Line delivers One Gallon per Minute at 500 RPM to the front of a Model T Engine! (Model A oil pumps deliver less than 1/2 that amount at 500 RPM)

Texas T Parts has just developed an exciting new item - a High Volume Outside Oil Line Kit. The two aluminum castings for the kit have been available for years, but without any instructions and without any additional components needed to complete an installation. If installed properly they were a good product, but the installation was a nightmare without instructions or the necessary hardware. And an essential element was not even identified. What we have done is add all of the hardware needed for installation plus custom made gaskets, a custom prepared copper oil line, and an essential custom manufactured oil scoop that fits inside the transmission cover. Oh yes, and we've added complete easy to follow instructions with diagrams, photographs and templates so that everyone can actually get their oil line installed.

We have tested this new kit and compared its performance to the Magneto Post Outside Line Oil Line Kits that have been available for years. We had always questioned how effective the Mag. Post Kits were because their design required that the oil flow vertically up into the pick up end of the line and past the contact spring of the magneto. Frankly though we were surprised by the difference between the performance of the two differently designed units.

### The Comparison Tests

We were asked by a customer to completely overhaul his engine which already had a Mag. Post Oil Line. The customer wanted us to install one of our new T3081-HVOL High Volume Outside Oil Line Kits. This gave us the first opportunity we had to compare the two units on the exact same engine.

After overhauling the engine and re-installing it in the customer's car we disconnected the front of the new HVOL oil line, held a finger over it and started the engine. The flow was unbelievable. It took 14 seconds to fill a one quart plastic oil container. Over one gallon per minute at a fast idle speed!

We then repeated the procedure with the Mag. Post Oil Line. The oil from the front of the Mag. Post Oil Line took 3-1/2 minutes to fill the quart container. This was a flow rate of only one gallon every 15 minutes.

### The Analysis

As we discussed what could explain the results, we concluded that the oil and air was probably circulating around inside the transmission cover/oil pan in a cyclone caused by the rotation of the magnets or oil slingers. (The engine we were testing actually had the Texas T Parts T3076-SL oil slinger kit installed in place of the magneto magnets.) We had tested the same cast aluminum oil line adapters previously but had disappointing results. The previous test had not included the sheet metal oil scoop on the inside of the transmission cover. We concluded that the scoop collects the oil as it flows around the inside of the transmission cover and results in the exceptional oil flow of the High Volume Oil Line Kit.

*Ben Hardeman*