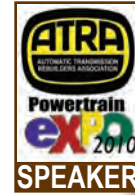


The Aisin Warner 6-Speed to San Antonio



by Bill Brayton
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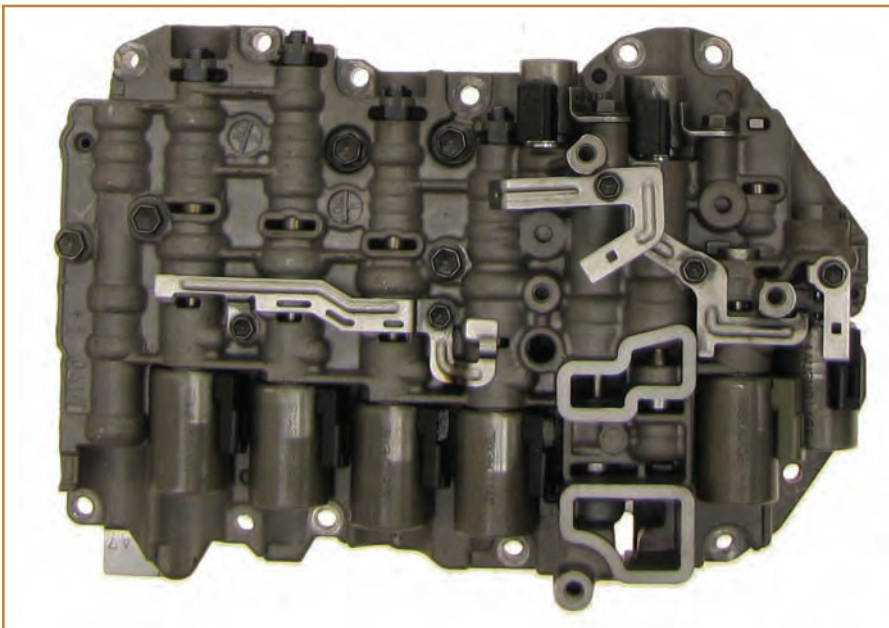


Figure 1A: Later style valve body without switches

We're working on lighter, more efficient transmissions than ever before. Aisin Warner (AW) produces a 6-speed, front wheel drive...

Back in 1969, Borg-Warner formed a joint venture with Aisin Seiki to form Aisin Warner. We first got a taste of these transmissions when we started working on the early Toyotas.

Fast forward to today: We're working on lighter, more efficient transmissions than ever before. Aisin Warner (AW) produces a 6-speed, front wheel drive in two basic versions: the TF-80SC and the TF-60SN.

Now some may ask why the guy who always talks about Ford transmissions is bringing this foreign unit to his seminar.

The answer is simple: The TF-80SC comes in the 2006-and-up Ford Fusion, and the Mercury Milan and Montego. The Fusion was named Car of the Year for 2010 by Motor

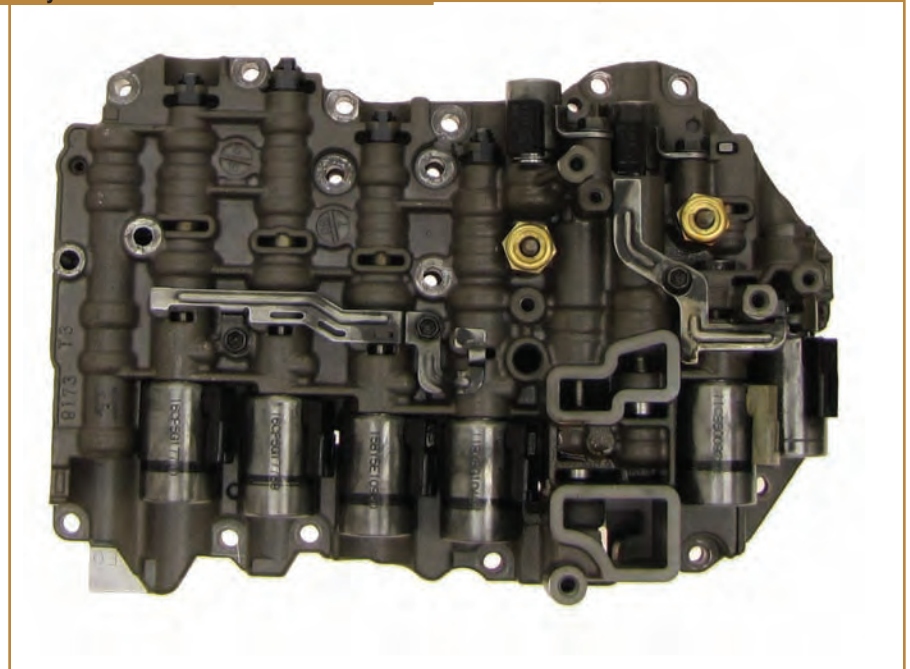


Figure 1B: Early VW body with Pressure Switches.



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Scanning a Ford product is pretty straightforward. Most of us already have that capability. But what about reprogramming?

Trend magazine, so we know this is one popular automobile.

Besides the Ford model, the TF-80SC is also used in the Volvo S60R and the 90 series. Another variation, the TF-60SN, known as the 09G, is used by Volkswagen and Audi.

As with any new unit, we go through the experiences of finding out exactly where the weak points of the unit are.

In San Antonio, we'll discuss one of the major weak points: the valve body (figures 1A and 1B). We'll look at where the weak points are and what can be done about them.

Did you know that the early VW valve body with the pressure switches will interchange directly with the later non-pressure switch valve body? This may come in handy in a pinch.

The hard parts from the AWF-21 and the 09G aren't interchangeable, so we'll look at some major hard part differences and their typical failures (figures 2A and 2B).

Scanning a Ford product is pretty straightforward. Most of us already have that capability. But what about reprogramming? What about the VW scan tool? We'll explore different options and different scenarios that involve these scan tools.

Come to San Antonio for a great learning experience, and take that knowledge back to your shop, where you can use it to have more *fun with transmissions!*

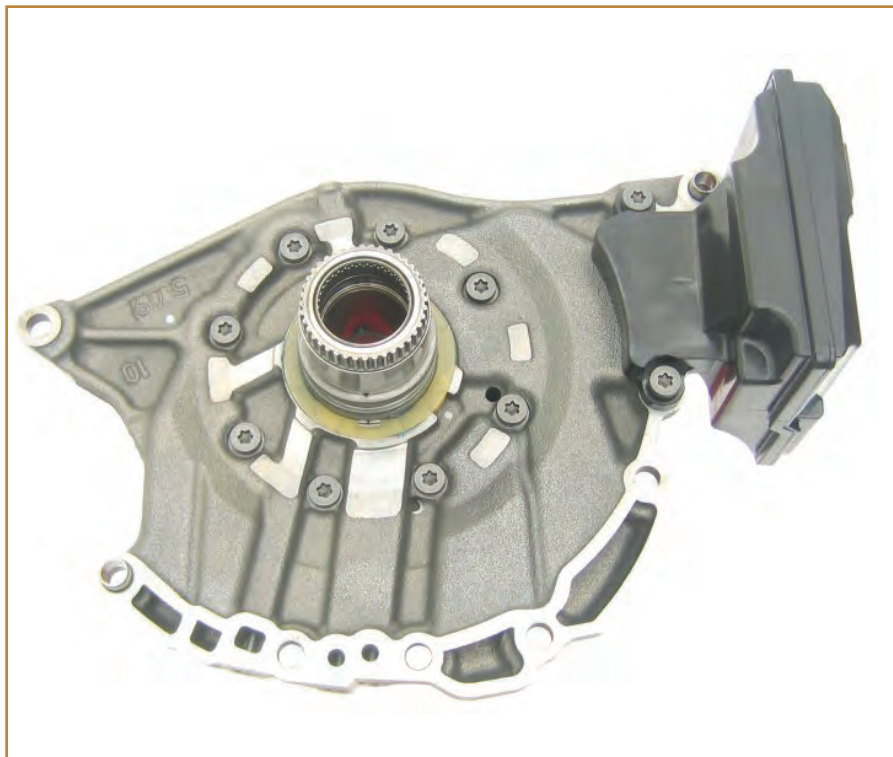


Figure 2A: AWF-21B Pump Assembly

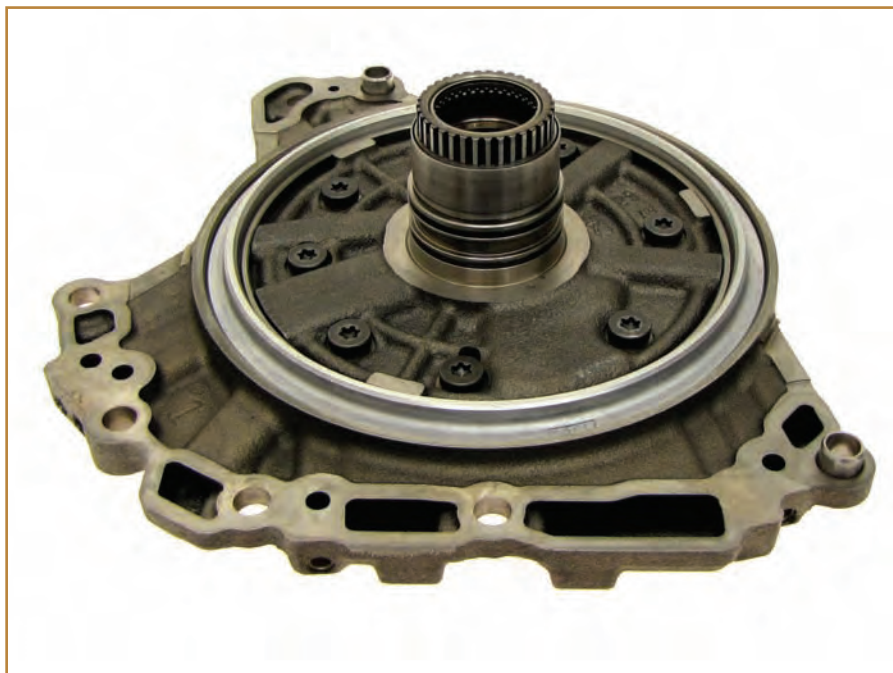


Figure 2B: 09G Pump Assembly

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