

## Chrysler 40TE, 40TES, 41AE, 41TE, 41TES, 42LE, 42RLE

### TCC Control & Plunger Valve Kit

#### Part No.

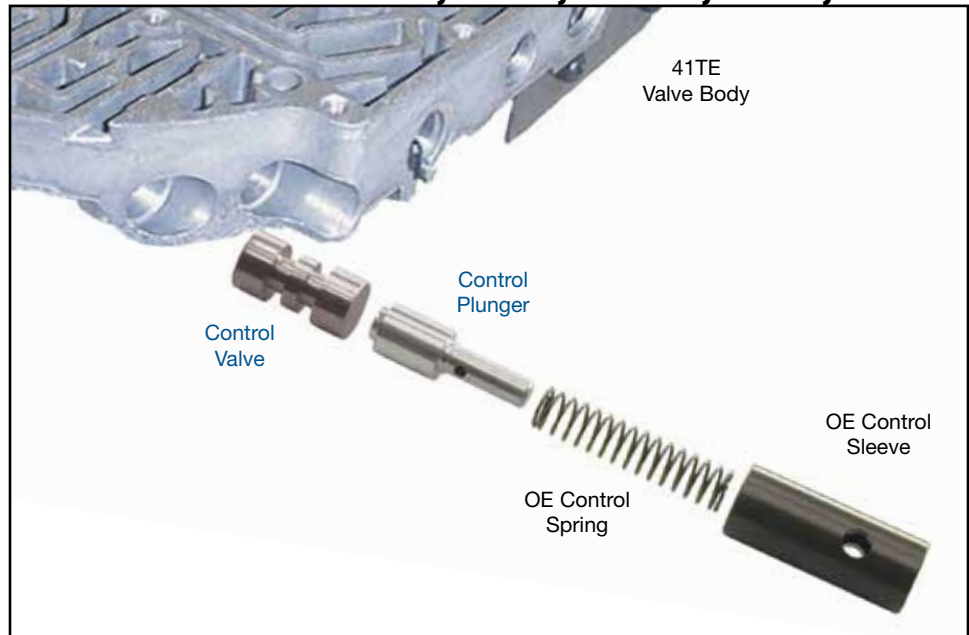
# 92835-03K

- Control Valve
- Control Plunger

Patent No. 6,793,053



**NOTE:** Not for use with #33 plates and valve bodies. Can be used with all later designs.



### 1. Separator Plate Information

#### a. #33 plate and body:

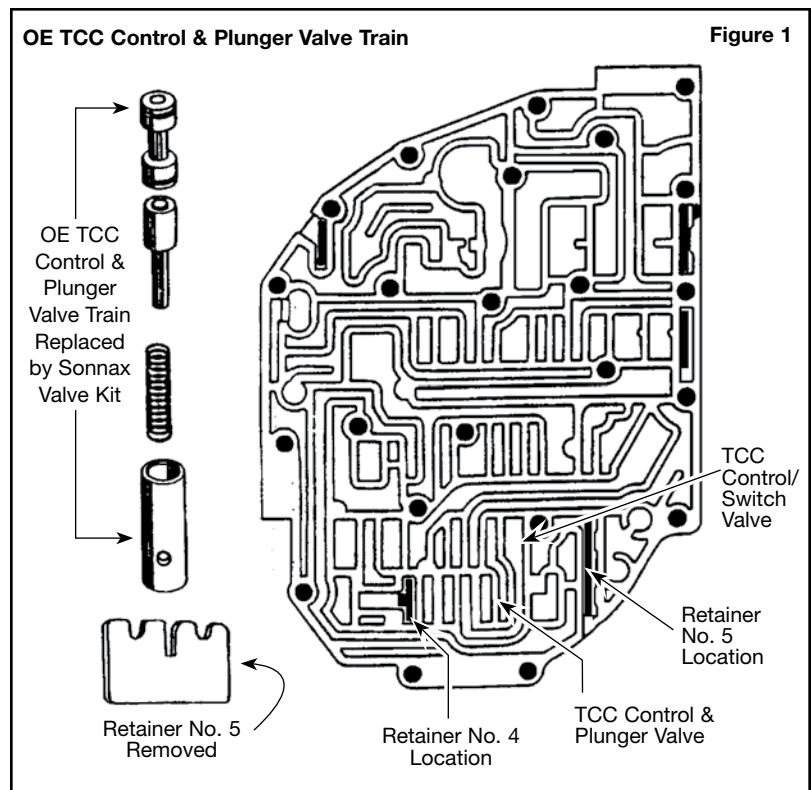
The #46, 82, 96 and 99 separator plate and valve body may be used to replace a bad #33 assembly. A common complaint of no TCC or engine stumble from TCC drag occurs on worn #33 units.

#### b. #96 or #99 plate and body:

Valve bodies with #96 or #99 plates are equipped with a larger diameter TCC control/switch valve located in the bore next to the TCC control and plunger valve under retainer #5 (Figure 1). This larger diameter reduces OE concern of TCC cycle during low speed EMCC. It is suggested updating to these later valve bodies whenever possible.

The OE TCC control and plunger valve regulates converter release oil but not converter apply pressure. Excess TCC apply pressure deforms the converter piston; the lining disintegrates, plugging the filter and cooler, resulting in lube failure. The Sonnax valve is designed to limit apply pressure and converter release oil.

The Sonnax valve can be used in all valve bodies except those with a #33 separator plate.



### 2. Instructions

- a. Remove OE retainer No. 5 and TCC control and plunger valve train (Figure 1).



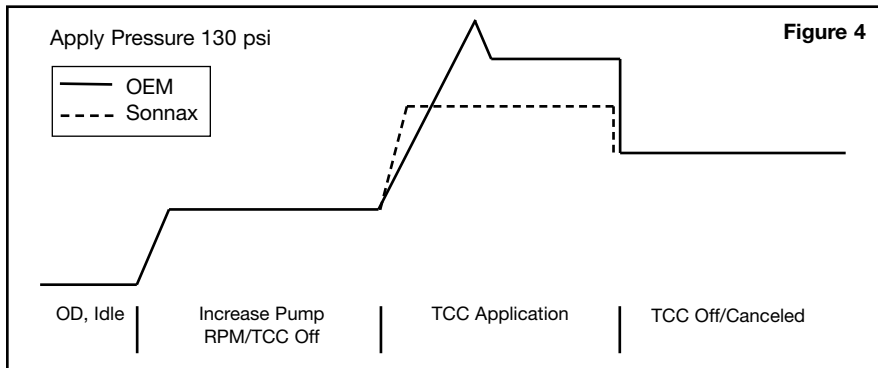
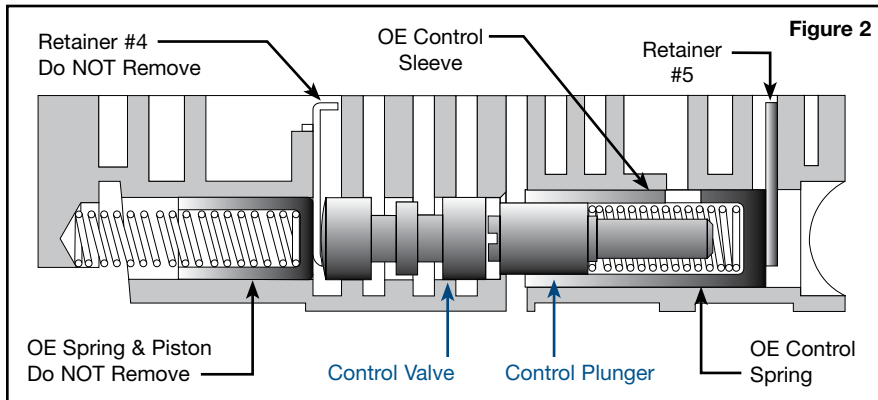
**NOTE:** Do NOT remove retainer No. 4.

- b. Discard OE TCC control and plunger valves, but retain OE control spring and control sleeve, as these will be reused.
- c. Install Sonnax control valve into the valve body bore (Figure 2). Install the rounded spool inboard toward the inner clip and the flat spool facing outboard toward the control plunger.



**NOTE:** 62TE Does not use the OE spring & piston or retainer #4 (Figure 2).

- d. Put OE control valve spring onto the end of Sonnax control plunger and install into OE control sleeve.
- e. Install the control plunger assembly into the valve body bore and retain it with OE retainer No. 5.
- f. Drill out B-1 hole in separator plate to 1/16" (.0625") as shown (Figure 3).



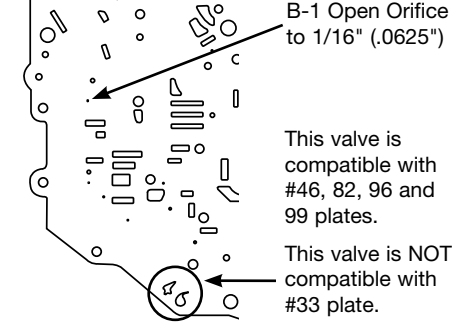
### Drivability Effects and Adjustment

Sonnax 92835-03K alters TCC application by preventing spikes in apply pressure, which can damage the converter piston. Extensive and successful road-testing of the Sonnax valves with plate designations #46, 82, 96 and 99 have shown a TCC apply that is shorter than OE and a reduction in shudder complaints. This kit controls apply and release pressure, flow rate on apply, and EMCC modulation.

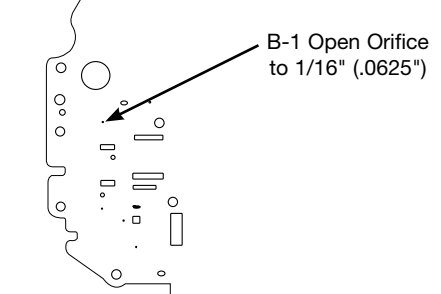
### Separator Plates

Figure 3

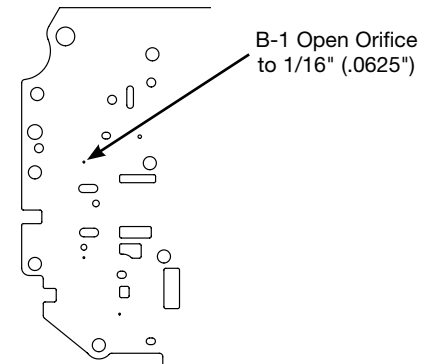
#### 41TE



#### 42LE



#### 42RLE



#### 62TE

