

## COMPLAINT

SECONDARY COMPLAINT

## Cross leaks caused by case deflection

- Second clutch feed passage leaks at case and center support

## CAUSE

Torqued center support bolts deflect the case where the valve body mates.

## CORRECTION

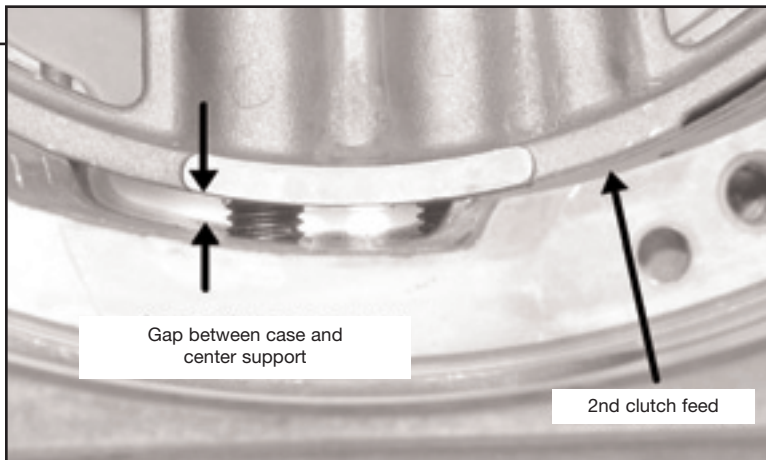
The Sonnax shim fills the gap between the center support and the case, preventing case distortion.

## Center Support Shim

**36743-01**

10 Center Support Shims

**Note:** The **36743-01** shim fills the gap between the outer diameter of the center support and the rough-cast surface inside of the case. Since the inside of the case is not a machined surface, the gap between the case and center support will vary between units. The shim thickness will work in MOST units, but due to the variability in case thickness, it will not work in ALL units.



### Sonnax Part Summary

E4OD and 4R100 transmissions are prone to case deflection because the OEM design, which has a gap between the case and center support. When the center support bolts are torqued to OE specifications without the shim, typical case distortion is .005" in the area around the center support bolts, which causes valve body cross leaks as well as leaks of the 2nd clutch feed between the case and center support. The Sonnax shim fills this gap so that when the center support bolts are tightened, it prevents the case from distorting, decreasing case deflection and reducing cross leaks.

### Features & Benefits

- Minimizes case distortion.
- Reduces cross leaks.

