

**Dual-Ratio
Boost Valve Kit**



Part No.

97741-01K


- Boost Sleeve
- Cutback Boost Valve
- Reverse Boost Valve
- EPC Boost Valve Large Dia. Priority
- EPC Boost Valve Small Dia. Priority
- Shim .015" thick, Selective
- Shim .032" thick, Selective

Patent No. 8,955,533




NOTE: Fits '00-later V6 & V8, late style Type 3 & 4 valve bodies.


OE Boost Valve Sleeve Identification **Figure 1**



Replacing 3-Dot = Use small dia. priority EPC boost valve (flat on large spool dia.) and no selective shims.




Replacing 2-Dot = Use Sonnax large dia. priority EPC boost valve (flat on small spool dia.) and no selective shims.




Replacing No-Dot = Use Sonnax small dia. priority EPC boost valve (flat on large spool dia.) and both selective shims.

Sonnax EPC Boost Valve Identification **Figure 2**



Flat on large spool diameter.

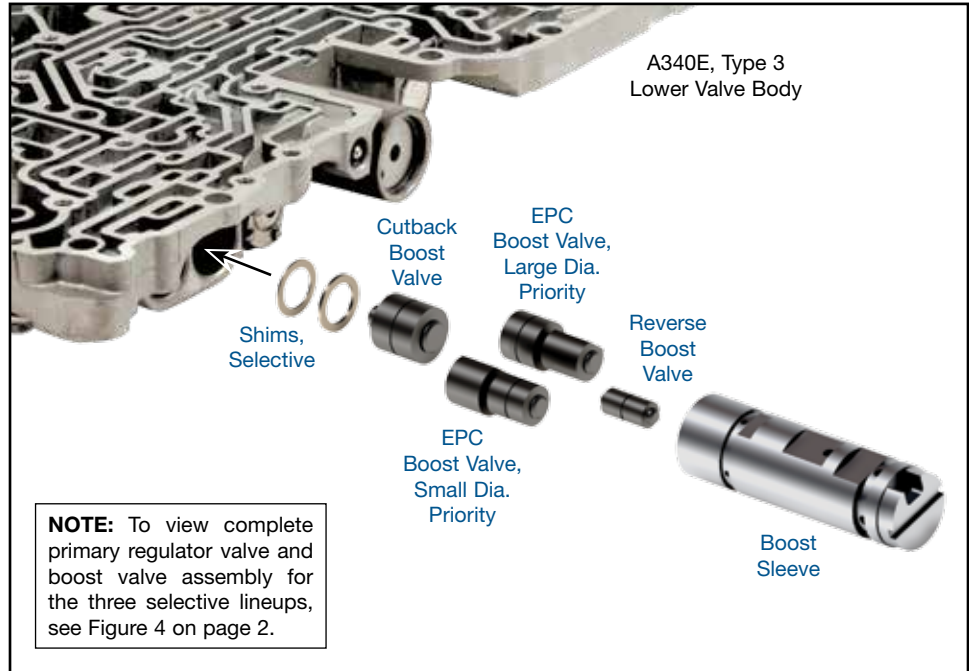
Small Dia. Priority



Flat on small spool diameter.

Large Dia. Priority

Toyota/Lexus A340E, A340F



NOTE: To view complete primary regulator valve and boost valve assembly for the three selective lineups, see Figure 4 on page 2.

1. Disassembly

- a. Make note of the three-dot, two-dot or no-dot identification marking OE boost valve assembly sleeve.
- b. Remove and discard the OE boost valve assembly. Save the OE washer and retainer for reuse.

2. Select Replacement EPC Boost Valve (Figures 1 & 2)

- a. Depending on the number of identification dots on the end of the OE boost sleeve, you need to replace the OE EPC boost valve with one of the following Sonnax valves:
 - **3 Dots:** Use Sonnax small dia. priority EPC boost valve (with flat on LARGE spool diameter).
 - **2 Dots:** Use Sonnax large dia. priority EPC boost valve (with flat on SMALL spool diameter).
 - **No Dots:** Use Sonnax small dia. priority EPC boost valve (with flat on LARGE spool diameter).
- b. Discard the unneeded Sonnax EPC boost valve.

3. Boost Valve Assembly

- a. Insert Sonnax reverse boost valve into the bottom of the Sonnax sleeve.
- b. Insert the correct Sonnax EPC boost valve (**Figures 2 & 4**) into the Sonnax sleeve, smaller diameter first.
- c. Insert the Sonnax cutback boost valve into the Sonnax sleeve, longer stem facing outboard.

4. Shim & Washer Installation

- a. If replacing an OE sleeve with two or three dots, do NOT add Sonnax shims. Just reinstall the OE washer (**Figure 4**).
- b. If replacing an OE sleeve with no dots, install both Sonnax shims between the OE washer and pressure regulator valve, then reinstall the OE washer (**Figure 4**).

5. Assembly

- With the correct shim/washer combination on the pressure regulator valve, push this valve into the bore using the OE spring.
- Push the boost valve assembly into the bore, just far enough to install the OE retainer into the port and engage the notch in the end of the boost sleeve.

6. Final Testing

Vacuum testing at the port(s) indicated holds the recommended minimum 18 in-Hg (Figure 3).

