



Technical Service Information

SATURN NEW ACTUATORS FOR 2000

CHANGE: Beginning in the 2000 model year a 4th design Actuator was introduced to supercede all previous design Actuators. This change involves a complete redesign of the Actuator at the screened end.

REASON: Reduces the possibility for debris to stick a control actuator valve.

PARTS AFFECTED:

- (1) ACTUATORS - 4th Design now has redesigned screens added to the control pressure side of the actuators as illustrated in Figure 1, and have the same resistance values as the 2nd and 3rd Design actuators, and are identified ***without*** the previous design plastic top or is called the Black Top Actuator. The 1st and 2nd Design actuators are shown in Figure 2. The 3rd and 4th Design actuators are shown in Figure 3. Actuator locations on the valve body are shown in Figure 4.

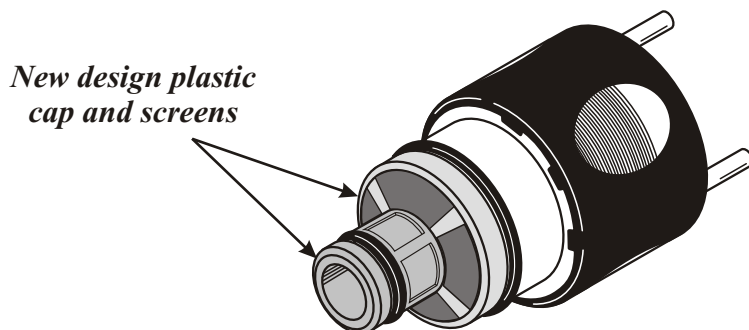
INTERCHANGEABILITY:

The 4th Design Actuator is the ***only*** Actuator that is available and will retrofit to previous models.

SERVICE INFORMATION:

4TH DESIGN ACTUATOR.....21003344

4th DESIGN ACTUATOR



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Figure 1

1ST DESIGN CONTROL ACTUATOR SOLENOIDS

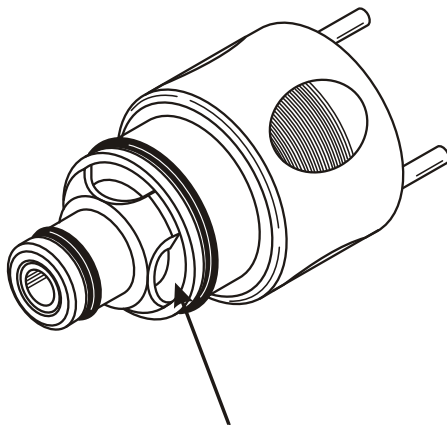
1991-1992

No longer available

*Black or Blue Plastic Tops
For Identification*



*Measures 2.5 to 4.5
Ohms Resistance*



*"No Screens"
Part Number
21002248*

2ND DESIGN CONTROL ACTUATOR SOLENOIDS

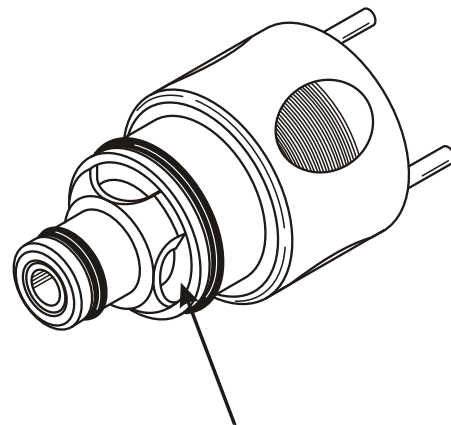
1993-1996

No longer available

*Red Plastic Tops
For Identification*



*Measures 4.0 to 6.0
Ohms Resistance*



*"No Screens"
Part Number
21002509*

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Figure 2

3RD DESIGN CONTROL ACTUATOR SOLENOIDS

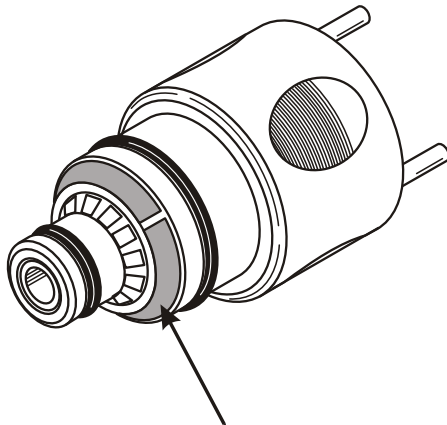
1997-1999

No longer available

*White Plastic Tops
For Identification*



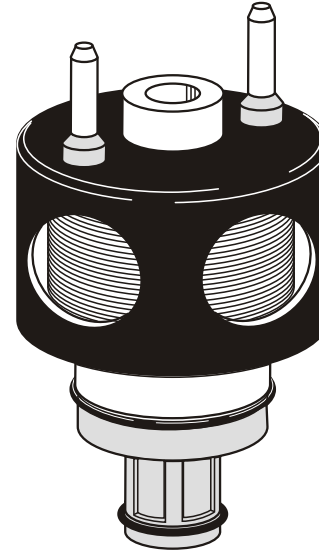
*Measures 4.0 to 6.0
Ohms Resistance*



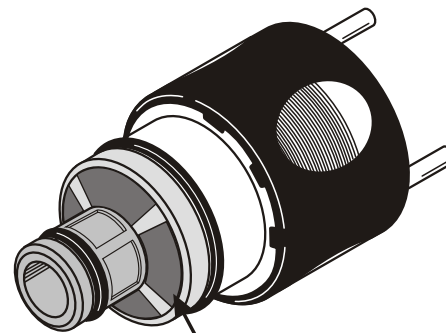
*"Screens Added"
Part Number
21003289*

4th DESIGN CONTROL ACTUATOR SOLENOIDS ALL MODELS

*No Color
or Black Top*



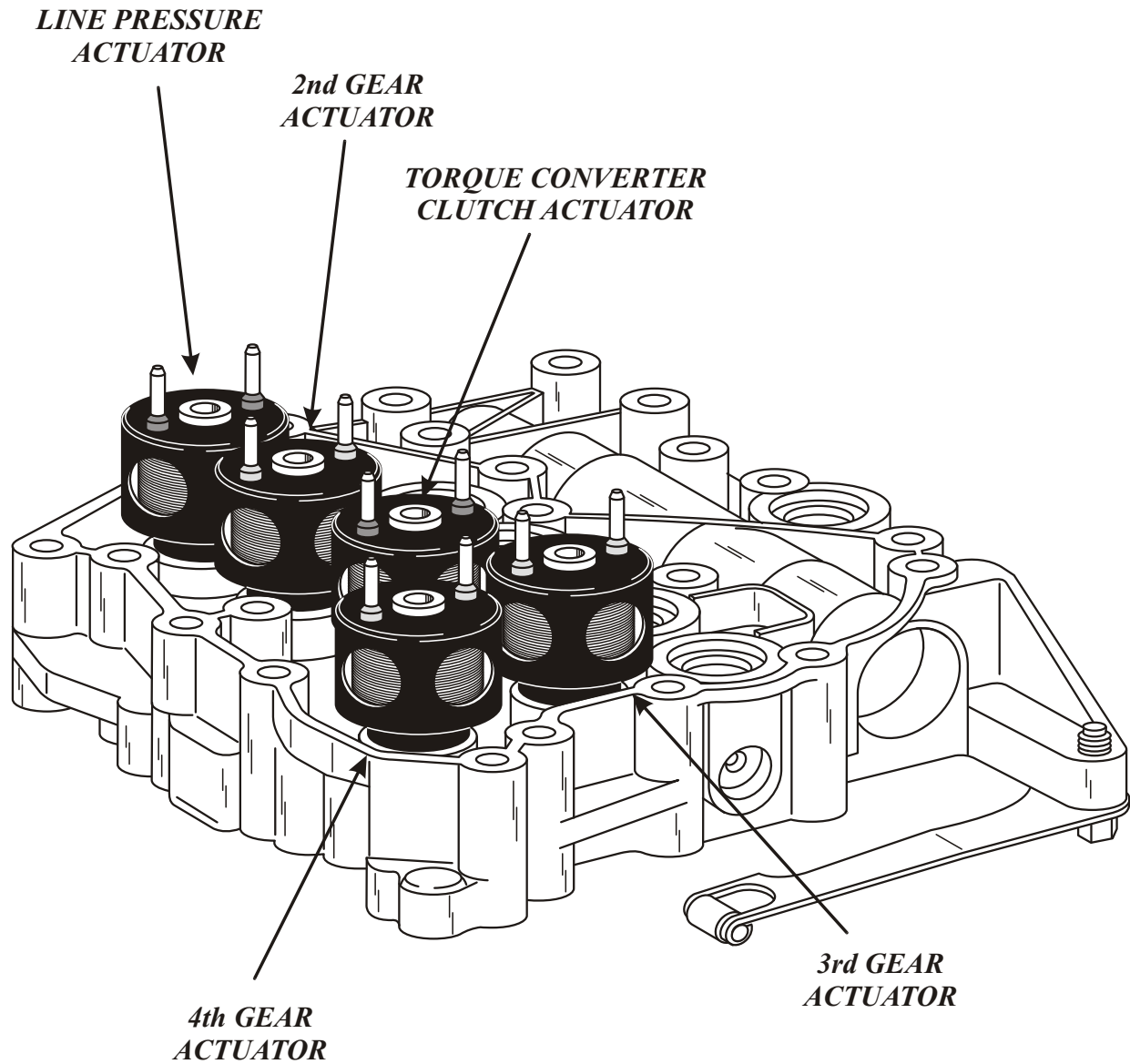
*Measures 4.0 to 6.0
Ohms Resistance*



*Plastic cap
Part Number
21003344*

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Figure 3

**SATURN VALVE BODY
ACTUATOR LOCATIONS**

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Figure 4