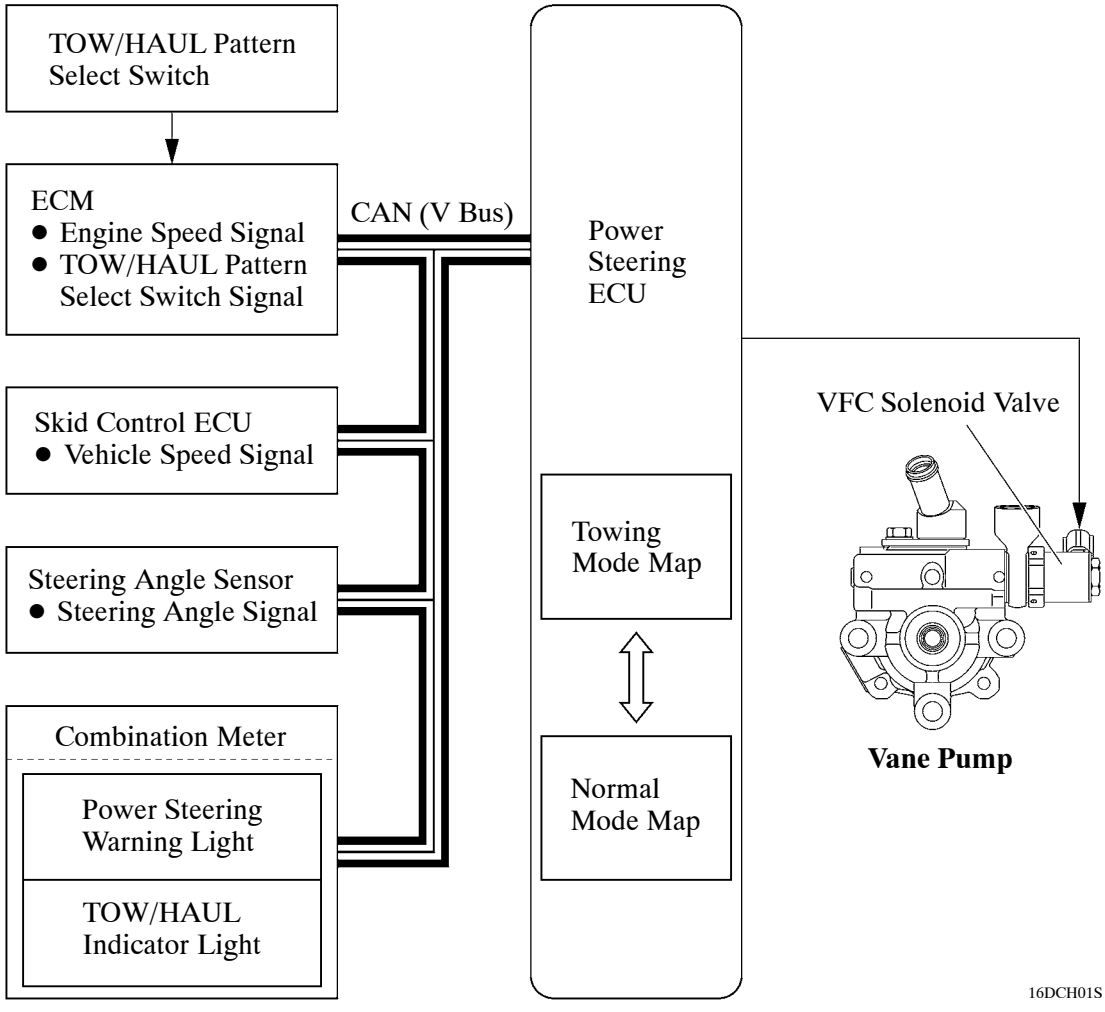
■STEERING

1. Variable Flow Control (VFC) Power Steering

General

- On towing package models, towing mode has been added to the Variable Flow Control (VFC) power steering.
- Through use of the TOW/HAUL pattern select switch provided on the instrument panel, mode can be switched between normal and towing, offering a good steering feeling optimal to the selected mode.
- When the mode is switched to normal or towing, the control map of flow rate control will be changed inside the power steering ECU, thus, the basic construction and operation are the same as those of the '10 Sequoia.

▶ System Diagram ◀



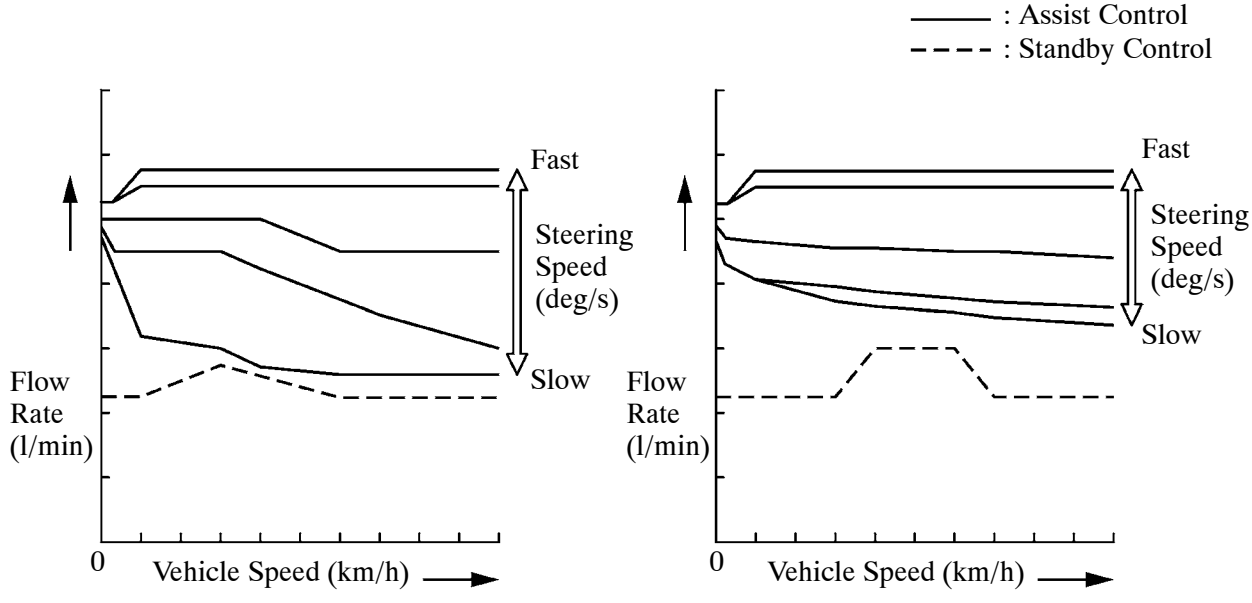
Flow Rate Control Operation

- The towing mode, which has been added to towing package models, performs flow rate control in order to prevent the steering from becoming too light when front wheel axle loads are reduced due to vehicle towing.
- Control maps for the modes are as follows.

: Added

Flow Rate Control	Function	Towing Mode	Normal Mode
Standby Control or Assist Control (Basic Control)	It effects control in accordance with the vehicle speed, steering angle, and steering speed conditions. It effects assist control when the steering wheel is being operated and standby control when the steering wheel is not being operated. Thus, it prevents the vane pump from discharging excessive flow, which lightens the load on the engine and achieves better fuel economy. Also, the following corrections are made to determine an optimal discharge flow rate.	Map A	Map B
Steering Angle Correction	Determines the discharge flow rate in accordance with driving conditions, such as steering at standstill, cornering, or straightline driving.	Map C	Map D
Steering Return Correction	Determines the discharge flow rate for returning the steering wheel to its neutral position after the steering wheel is operated.	Map E	←
Engine Speed Correction	Determines the discharge flow rate in accordance with the engine speed.	Map F	Map G

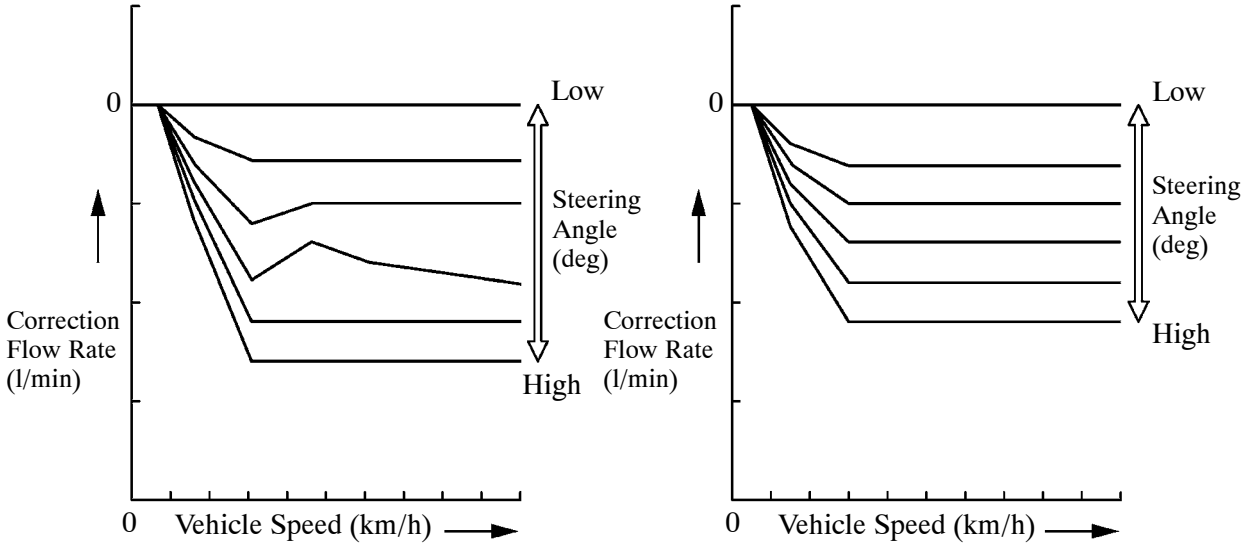
▶ Standby Control or Assist Control ◀



Map A / Towing Mode **Map B / Normal Mode**

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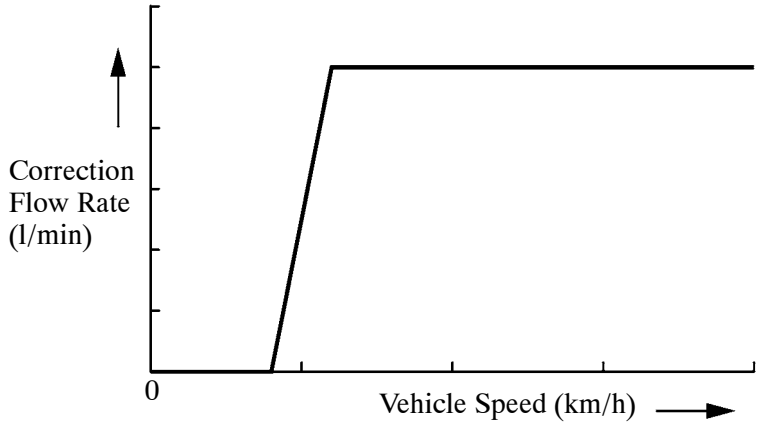
▶ Steering Angle Correction ◀



Map C / Towing Mode **Map D / Normal Mode**

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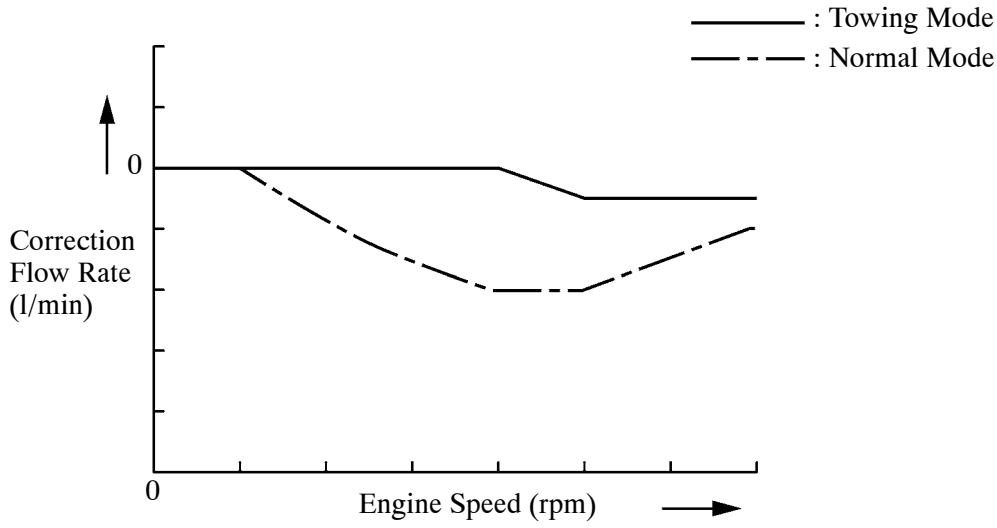
▶ Steering Return Correction ◀



Map E / Towing Mode and Normal Mode

16DCH04S

▶ Engine Speed Correction ◀



Map F and Map G

16DCH05S