# PERFORMANCE

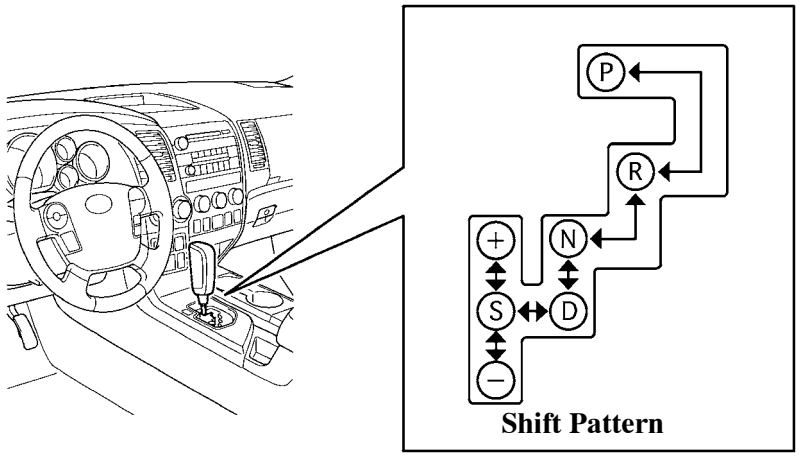
## Power Train

### Engine

| Engine Type | 2UZ-FE | 3UR-FE |
|---|---|---|
| No. of Cylinders & Arrangement | 8-cylinder, V-type | 8-cylinder, V-type |
| Valve Mechanism | 32-valve DOHC with VVT-i | 32-valve DOHC with Dual VVT-i |
| Fuel System | SFI | SFI |
| Displacement | 4664 $cm^3$ (284.5 cu. in.) | 5663 $cm^3$ (345.6 cu. in.) |
| Max. Output [SAE-NET] | 206 kW @ 5400 rpm (276 HP @ 5400 rpm) | 284 kW @ 5600 rpm (381 HP @ 5600 rpm) |
| Max. Torque [SAE-NET] | 426 N·m @ 3400 rpm (314 ft·lbf @ 3400 rpm) | 544 N·m @ 3600 rpm (401 ft·lbf @ 3600 rpm) |

### Multi-mode Automatic Transmission

- The multi-mode automatic transmission is used for all models.
- The multi-mode automatic transmission enables manual shifting by changing shift ranges up (+) or down (–) in the S position using the floor shift lever.




08LMO040I

## *Transmission*

| Transmission Type | | 5-speed Automatic | | 6-speed Automatic | |
|---|---|---|---|---|---|
| | | A750E (2WD) | A750F (4WD) | AB60E (2WD) | AB60F (4WD) |
| Combination with Engine | | 2UZ-FE | | 3UR-FE | |
| Combination with Transfer | | — | JF3A Multi-mode (Part-time & Full-time) | — | JF3A Multi-mode (Part-time & Full-time) |
| Gear Ratio | 1st | 3.520 | 3.520 | 3.333 | 3.333 |
| | 2nd | 2.042 | 2.042 | 1.960 | 1.960 |
| | 3rd | 1.400 | 1.400 | 1.353 | 1.353 |
| | 4th | 1.000 | 1.000 | 1.000 | 1.000 |
| | 5th | 0.716 | 0.716 | 0.728 | 0.728 |
| | 6th | — | — | 0.588 | 0.588 |
| | Reverse | 3.224 | 3.224 | 3.061 | 3.061 |

## *Transfer*

| Transfer Type | | JF3A |
|---|---|---|
| Combination with Transmission | | A750F/AB60F |
| Gear Ratio | 2WD/H4 | 1.000 |
| | L4 | 2.618 |

## *Differential*

### Front

| Combination with Engine | 2UZ-FE | 3UR-FE |
|---|---|---|
| Combination with Transmission | A750F | AB60F |
| Type | SD22AD | SD22AD |
| Gear Ratio | 3.909, 4.300* | 3.909, 4.300* |
| Ring Gear Size | 220 mm (8.7 in.) | 220 mm (8.7 in.) |
| A.D.D. (Automatic Disconnecting Differential) | With | With |

### Rear

| Combination with Engine | 2UZ-FE | 3UR-FE |
|---|---|---|
| Combination with Transmission | A750E/A750F | AB60E/AB60F |
| Type | FD25A | FD25A |
| Gear Ratio | 3.909, 4.300* | 3.909, 4.300* |
| Ring Gear Size | 252 mm (9.9 in.) | 252 mm (9.9 in.) |

*: Towing Package Models