

CLUTCH

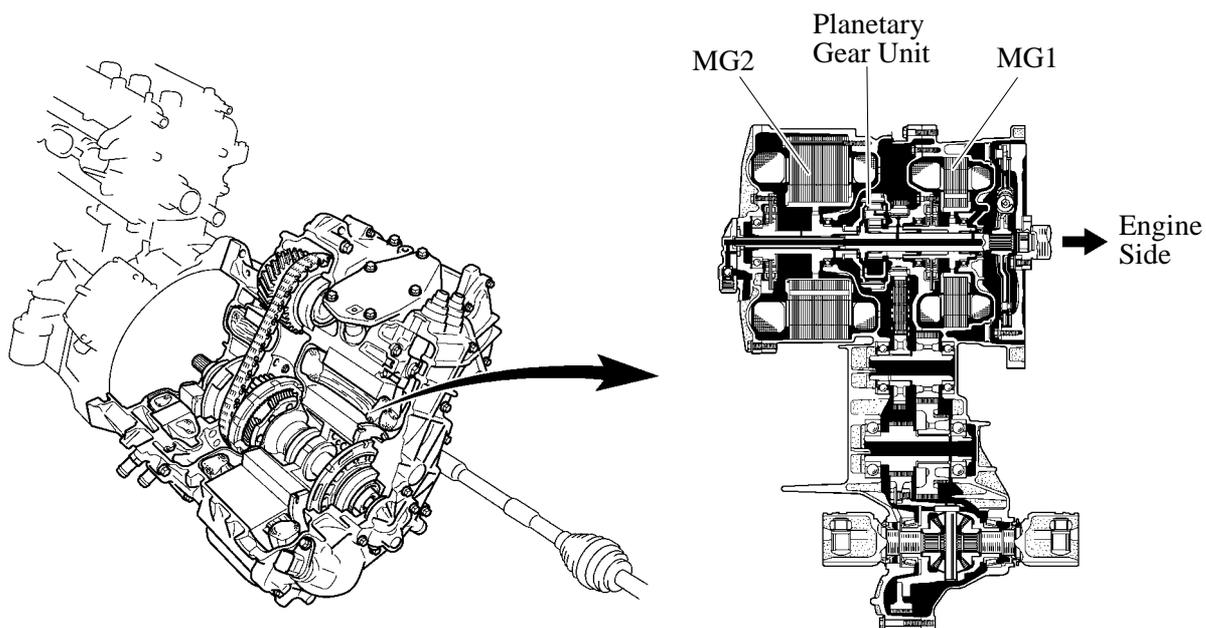
P112 HYBRID TRANSAXLE

DESCRIPTION

- The P112 hybrid transaxle has been newly developed on the '04 Prius. Containing a MG2 (Motor Generator No.1) for driving the vehicle and a MG1 (Motor Generator No.1) for generating electrical power, this hybrid transaxle uses a continuously variable transmission mechanism with planetary gear unit that achieve smooth and quiet operation.
- This hybrid transaxle is based on the P111 hybrid transaxle of the '03 Prius. The main changes that have been made to this transaxle to realize higher efficiency and performance are listed below.

— Main Changes from P111 Hybrid Transaxle —

- The spring characteristics of the coil spring of the transaxle damper have been changed.
- A low-viscosity type transaxle fluid (ATF WS) has been newly adopted.
- The oil pan has been discontinued.
- An aluminum sprocket support, which is integrated on the MG1 cover, has been adopted.
- Ball bearings have been adopted to support the counter driven gear shaft.



► Specifications ◀

| Model | | '04 Model | '03 Model |
|-------------------------|----------------------------------|----------------------|-----------------------------|
| Transaxle Type | | P112 | P111 |
| Planetary Gear | The No. of Ring Gear Teeth | 78 | ← |
| | The No. of Pinion Gear Teeth | 23 | ← |
| | The No. of Sun Gear Teeth | 30 | ← |
| Differential Gear Ratio | | 4.113 | 3.905 |
| Chain | The NO. of Links | 72 | 74 |
| | The NO. of Drive Sprocket Teeth | 36 | 39 |
| | The NO. of Driven Sprocket Teeth | 35 | 36 |
| Counter Gear | The NO. of Drive Gear Teeth | 30 | ← |
| | The NO. of Driven Gear Teeth | 44 | ← |
| Final Gear | The NO. of Drive Gear Teeth | 26 | ← |
| | The NO. of Driven Gear Teeth | 75 | ← |
| Fluid Capacity | Liters (US qts, Imp.qts) | 3.8 (4.0, 3.3) | 4.6 (4.9, 4.0) |
| Fluid Type | | ATF WS or equivalent | ATF Type T-IV or equivalent |
| Weight (Reference)* | | kg (lb) | 107 (236) |
| | | | — |

* : Weight shows the figure with the fluid fully filled.

