| | | |
|---|---|---|
| **Last Modified:** 03-12-2013 | 6.4 F | **Doc ID:** NM1000000005Q75 |
| **Model Year:** 2013 | **Model:** RAV4 | **Prod Date Range:** [12/2012 - ] |
| **Title:** U760F AUTOMATIC TRANSMISSION / TRANSAXLE: AUTOMATIC TRANSAXLE SYSTEM: GENERAL; 2013 MY RAV4 [12/2012 - ] | | |

# GENERAL

## 1. OUTLINE

(a) The U760F 6-speed Super Electronically Controlled Transaxle (Super ECT) is used on the AWD models.

(b) An ATF warmer is used in the ATF cooling system.

(c) A gate type shift lever is used.

(d) A multi-mode automatic transmission is used.

(e) A shift pattern select system is used to select the driving mode (Normal and Sport). In Sport mode, a higher level of responsiveness and a linear acceleration feel have been achieved.

## 2. SPECIFICATION

**Automatic Transaxle Assembly**

| | | |
|---|---|---|
| Gear Ratio | 1st | 3.300 |
| | 2nd | 1.900 |
| | 3rd | 1.420 |
| | 4th | 1.000 |
| | 5th | 0.713 |
| | 6th | 0.608 |
| | Reverse | 4.148 |
| Differential Gear Ratio*1 | | 4.071 |
| Fluid Type | | Toyota Genuine ATF WS |
| Fluid Capacity*2 | | 6.5 Liters (6.9 US qts, 5.7 Imp. qts) |

**HINT:**

*1: Counter gear ratio included.

*2: Differential included.

**Friction Engagement Components and 1-way Clutch**

| | | |
|---|---|---|
| No. 1 Clutch (C1) | No. of Discs | 3 |
| No. 2 Clutch (C2) | | 2 |
| No. 1 Brake (B1) | | 3 |
| No. 2 Brake (B2) | | 4 |
| No. 3 Brake (B3) | | 3 |
| No. 1 1-way Clutch (F1) | No. of Rollers | 20 |

**Planetary Gears and Counter Gear**

| | | |
|---|---|---|
| Ravigneaux Planetary Gear Unit | No. of Front Sun Gear Teeth | 27 |
| | No. of Rear Sun Gear Teeth | 30 |
| | No. of Long Pinion Gear Teeth | 20 |
| | No. of Short Pinion Gear Teeth | 22 |
| | No. of Ring Gear Teeth | 69 |
| Underdrive Planetary Gear Unit | No. of Sun Gear Teeth | 66 |
| | No. of Pinion Gear Teeth | 21 |
| | No. of Ring Gear Teeth | 110 |
| Counter Gear | No. of Drive Gear Teeth | 44 |
| | No. of Driven Gear Teeth | 46 |

**Torque Converter Assembly**

| | |
|---|---|
| Torque Converter Type | 3-element, 1-step, 2-phase |
| Stall Torque Ratio | 1.850 |

## 3. PRECAUTION

(a) Ignition Switch Expressions

(1) The type of ignition switch used on this model differs depending on the specifications of the vehicle. The expressions listed in the table below are used in this section:

| EXPRESSION | IGNITION SWITCH (POSITION) | ENGINE SWITCH (CONDITION) |
|---|---|---|
| Ignition Switch Off | LOCK | Off (Lock) |
| Ignition Switch ACC | ACC | On (ACC) |
| Ignition Switch ON | ON | On (IG) |
| Engine Start | START | On (Start) |