U151E AUTOMATIC TRANSAXLE SERVICE DATA

| U151E | | |
|---|---|---|
| Line pressure (Wheel locked) | | |
| | Engine idling | |
| | D position | 372 to 412 kPa (3.8 to 4.2 kgf*cm ² , 54 to 60 psi) |
| | R position | 672 to 742 kPa (6.9 to 7.6 kgf*cm ² , 97 to 108 psi) |
| | AT stall (Throttle valve fully opened) | |
| | D position | 931 to 1,031 kPa (9.5 to 10.5 kgf*cm ² , 135 to 150 psi) |
| | R position | 1,768 to 1,968 kPa (18.0 to 20.1 kgf*cm², 256 to 285 psi) |
| Engine stall revolution | D and R positions | 2,100 +- 150 rpm |
| Time lag | $N \rightarrow D$ position | Less than 1.2 seconds |
| | $N \rightarrow R$ position | Less than 1.5 seconds |
| Engine idle revolution (A/C OFF) | N position | 650 +- 50 rpm |
| Drive plate runout | Max. | 0.20 mm (0.0079 in.) |
| Torque converter runout | Max. | 0.30 mm (0.0118 in.) |
| Differential oil seal drive in depth | LH side | 0 +- 0.5 mm (0 +- 0.020 in.) |
| | RH side | 0 +- 0.5 mm (0 +- 0.020 in.) |
| U151E | | |
| Shift schedule (Shift lever with Multi-mode automatic shift type) | transmission & Gate | |
| D position | | |
| (Throttle valve fully opened) | 1 → 2 | 39 to 48 km/h (24 to 30 mph) |
| | $2 \rightarrow 3$ | 79 to 90 km/h (49 to 56 mph) |
| | $3 \rightarrow 4$ | 129 to 147 km/h (80 to 91 mph) |
| | 4 → 5 | 191 to 213 km/h (119 to 132 mph) |
| | 5 → 4 | 184 to 205 km/h (114 to 127 mph) |
| | $4 \rightarrow 3$ | 125 to 142 km/h (78 to 88 mph) |
| | 3 → 2 | 74 to 84 km/h (46 to 52 mph) |
| | 2 → 1 | 36 to 43 km/h (22 to 27 mph) |
| (Throttle valve fully closed) | 4 → 5 | 45 to 53 km/h (28 to 33 mph) |
| | 5 → 4 | 35 to 42 km/h (22 to 26 mph) |
| Lock-up point | Throttle valve opening 5 % | |
| D position | | |
| 5th gear | Lock-up ON | 80 to 90 km/h (50 to 56 mph) |
| | Lock-up OFF | 79 to 89 km/h (49 to 55 mph) |
| 4th gear | Lock-up ON | 98 to 110 km/h (61 to 68 mph) |
| | Lock-up OFF | 95 to 107 km/h (59 to 66 mph) |

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| U151E | | |
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| 3th gear | Lock-up ON | 64 to 74 km/h (40 to 46 mph) |
| | Lock-up OFF | 61 to 70 km/h (38 to 43 mph) |
| Oil pump | | |
| Body clearance | STD | 0.10 to 0.17 mm (0.0039 to 0.0067 in.) |
| • | Max. | 0.17 mm (0.0067 in.) |
| Tip clearance | STD | 0.07 to 0.15 mm (0.0028 to 0.0059 in.) |
| | Max. | 0.15 mm (0.0059 in.) |
| Side clearance | STD | 0.02 to 0.05 mm (0.0008 to 0.0020 in.) |
| | Max. | 0.05 mm (0.0020 in.) |
| Drive gear thickness | Mark | |
| | A | 11.690 to 11.699 mm (0.4602 to 0.4606 in.) |
| | В | 11.700 to 11.709 mm (0.4606 to 0.4610 in.) |
| | С | 11.710 to 11.720 mm (0.4610 to 0.4614 in.) |
| | D | 11.721 to 11.730 mm (0.4615 to 0.4618 in.) |
| | E | 11.731 to 11.740 mm (0.4619 to 0.4622 in.) |
| Driven gear thickness | Mark | |
| - | A | 11.690 to 11.699 mm (0.4602 to 0.4606 in.) |
| | В | 11.700 to 11.709 mm (0.4606 to 0.4610 in.) |
| | С | 11.710 to 11.720 mm (0.4610 to 0.4614 in.) |
| | D | 11.721 to 11.730 mm (0.4615 to 0.4618 in.) |
| | E | 11.731 to 11.740 mm (0.4619 to 0.4622 in.) |
| Pump body bushing inside diameter | STD | 38.113 to 38.138 mm (1.50050 to 1.50149 in.) |
| | Max. | 38.188 mm (1.50346 in.) |
| Stator shaft bushing inside diameter | STD | 21.500 to 21.526 mm (0.84646 to 0.84748 in.) |
| • | Max. | 21.57 mm (0.8492 in.) |
| | | |
| Multiple disc clutch | | |
| Inside diameter | STD | 23.025 to 23.045 mm (0.9065 to 0.9073 in.) |
| | Max. | 23.09 mm (0.9091 in.) |
| Forward clutch | | |
| Pack clearance | | 1.00 to 1.25 mm (0.0394 to 0.4921 in.) |
| Return spring free length | | 26.74 mm (1.0528 in.) |
| Flange thickness | Mark | |
| | 1 | 3.00 mm (0.1181 in.) |
| | 2 | 3.15 mm (0.1240 in.) |
| | 3 | 3.30 mm (0.1299 in.) |
| | 4 | 3.45 mm (0.1358 in.) |
| | H + + + + + + + + + + + + + + + + + + + | |

| Reverse clutch | |
|-----------------|--|
| Pack clearance: | 0.60 to 0.82 mm (0.02362 to 0.03228 in.) |

3.60 mm (0.1417 in.)

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| Reverse clutch | | | |
|------------------|------|--------------------|--|
| Flange thickness | Mark | | |
| | 1 | 3.0 mm (0.118 in.) | |
| | 2 | 3.1 mm (0.122 in.) | |
| | 3 | 3.2 mm (0.126 in.) | |
| | 4 | 3.3 mm (0.130 in.) | |
| | 5 | 3.4 mm (0.134 in.) | |
| | 6 | 3.5 mm (0.138 in.) | |
| | 7 | 3.6 mm (0.142 in.) | |

| Direct clutch & O/D clutch | | | |
|----------------------------|------|--|--|
| Pack clearance | | 0.61 to 0.83 mm (0.02401 to 0.03268 in.) | |
| Return spring free length | | 25.91 mm (1.0201 in.) | |
| Flange thickness | Mark | | |
| | 0 | 2.5 mm (0.098 in.) | |
| | 1 | 2.6 mm (0.102 in.) | |
| | 2 | 2.7 mm (0.106 in.) | |
| | 3 | 2.8 mm (0.110 in.) | |
| | 4 | 2.9 mm (0.114 in.) | |
| | 5 | 3.0 mm (0.118 in.) | |
| | 6 | 3.1 mm (0.122 in.) | |

| 2nd brake | | | |
|--|---|---|------------------|
| Pack clearance Return spring free length | | 0.62 to 0.91 mm (0.0244 to 0.0358 in.) 16.61 mm (0.6539 in.) | |
| | | | Flange thickness |
| | 1 | 3.0 mm (0.118 in.) | |
| | 2 | 3.1 mm (0.122 in.) | |
| | 3 | 3.2 mm (0.126 in.) | |
| | 4 | 3.3 mm (0.130 in.) | |
| | 5 | 3.4 mm (0.134 in.) | |
| | 6 | 3.5 mm (0.138 in.) | |
| | 7 | 3.6 mm (0.142 in.) | |

| U/D clutch | | |
|---|------|--|
| Pack clearance | | 1.51 to 1.71 mm (0.0594 to 0.0673 in.) |
| U/D clutch drum bushing inside diameter | STD | 37.06 to 37.08 mm (1.4591 to 1.4598 in.) |
| | Max. | 37.13 mm (1.4618 in.) |
| Return spring free length | | 17.14 mm (0.6752 in.) |
| Flange thickness | Mark | |
| | 1 | 3.0 mm (0.118 in.) |
| | 2 | 3.1 mm (0.122 in.) |
| | 3 | 3.2 mm (0.126 in.) |
| | 4 | 3.3 mm (0.130 in.) |
| | 5 | 3.4 mm (0.134 in.) |

| U/D brake | |
|---------------------------|--|
| Pack clearance | 1.81 to 2.20 mm (0.0713 to 0.0866 in.) |
| Return spring free length | 14.04 mm (0.5528 in.) |

| U/D brake | | | 1 | | |
|-------------------------------------|---------|----|---|----------------------|--|
| Flange thickness | | | Mark | | |
| | | | 1 | | 3.0 mm (0.118 in.) |
| | | | 2 | | 3.2 mm (0.126 in.) |
| | | | 3 | | 3.4 mm (0.134 in.) |
| 1st & reverse brake | | | | | |
| Pack clearance | | | | 1 16 t | o 1.35 mm (0.0457 to 0.0531in.) |
| Return spring free length | | | | 1.10 0 | 15.53 mm (0.6414 in.) |
| Flange thickness | | | Mark | | 13.33 11111 (0.0114 111.) |
| Trange unchiess | | | 1 | | 1.8 mm (0.071 in.) |
| | | | 2 | | |
| | | | | | 1.9 mm (0.075 in.) |
| | | | 3 | | 2.0 mm (0.079 in.) |
| | | | 4 | | 2.1 mm (0.083 in.) |
| | | | 5 | | 2.2 mm (0.087 in.) |
| | | | 6 | | 2.3 mm (0.091 in.) |
| | | | 7 | | 2.4 mm (0.094 in.) |
| | | | 8 | | 2.5 mm (0.098 in.) |
| U/D planetary gear | | | | | |
| Preload (at 60 rpm) | | | | 0.50 to 1.42 N*m / | (5.1 to 14.5 kgf*cm, 0.06 to 0.17 in.*lbf) |
| rieload (at 60 ipili) | | | | 0.30 to 1.42 N III (| (3.1 to 14.5 kg/ cm, 0.00 to 0.17 m. lb/) |
| Front planetary gear | | | | | |
| Turning torque (at 60 rpm) | | | New 0.51 to 1.02 N*m (5.1 to 10.0 kgf*cm, 4.4 to | | *m (5.1 to 10.0 kaf*cm, 4.4 to 8.7 in *lbf) |
| | | | Bearing | 0.01 to 1.02 iv | TH (0.1 to 10.0 kg) (111, 4.4 to 0.7 lii. 151) |
| | | | Used | 0.26 to 0.51 N | I*m (2.7 to 5.2 kgf*cm, 2.3 to 4.5 in.*lbf) |
| | | | Bearing | | |
| Input shaft | | | | | |
| End play | | | | 0.262 to 1 | .249 mm (0.0103 to 0.0492 in.) |
| | | | l | | |
| Transaxle rear cover | | | | | |
| Bearing press fit depth | | | | 20.55 to 2 | 1.25 mm (0.8091 to 0.8366 in.) |
| | | | | | |
| Transmission valve body | | | T . | | |
| Valve body installation bolt length | | | A | 41 mm (1.614 in.) | |
| | | | В | 57 mm (2.244 in.) | |
| | | | С | | 25 mm (0.984 in.) |
| Accumulator | | | | | |
| Spring | | F | ree lenath/O | uter diameter | Color |
| B ₃ | Inner | | 62.00 (2.4409) / 15.50 (| | Purple |
| -3 | Outer | _ | 74.23 (2.9224) / 16.50 (0.649) | | Purple |
| C ₂ | 0 01.01 | | | | Yellow |
| | | | 60.96 (2.3999) / 14.10 (0.555) 72.20 (2.8425) / 19.0 (0.748) | | |
| C ₃ | | // | z.zu (z.8425) | / 19.0 (0.748) | Colorless |

| Front differential (U151E) | | |
|----------------------------|------|--|
| Backlash | | 0.05 to 0.20 mm (0.0020 to 0.0079 in.) |
| Thrust washer thickness | Mark | |
| | - | 1.625 mm (0.0640 in.) |
| | - | 1.725 mm (0.0679 in.) |
| | - | 1.825 mm (0.0719 in.) |

| Front differential (U151E) | | |
|----------------------------|--------------|--|
| Preload (at 60 rpm) | New bearing | 0.20 to 0.69 N*m (2.0 to 7.0 kgf*cm, 1.8 to 6.1 in.*lbf) |
| | Used bearing | 0.10 to 0.35 N*m (1.0 to 3.6 kgf*cm, 0.9 to 3.1 in.*lbf) |
| Flange thickness | Mark | |
| | 0 | 2.00 mm (0.0787 in.) |
| | 1 | 2.05 mm (0.0807 in.) |
| | 2 | 2.10 mm (0.0827 in.) |
| | 3 | 2.15 mm (0.0846 in.) |
| | 4 | 2.20 mm (0.0866 in.) |
| | 5 | 2.25 mm (0.0886 in.) |
| | 6 | 2.30 mm (0.0906 in.) |
| | 7 | 2.35 mm (0.0925 in.) |
| | 8 | 2.40 mm (0.0945 in.) |
| | 9 | 2.45 mm (0.0965 in.) |
| | A | 2.50 mm (0.0984 in.) |
| | В | 2.55 mm (0.1004 in.) |
| | С | 2.60 mm (0.1024 in.) |
| | D | 2.65 mm (0.1043 in.) |
| | E | 2.70 mm (0.1063 in.) |
| | F | 2.75 mm (0.1083 in.) |
| | G | 2.80 mm (0.1102 in.) |
| | Н | 2.85 mm (0.1122 in.) |

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