

# SERVICE SPECIFICATIONS

## SERVICE DATA

|                                                         |                                        |                                               |                               |             |
|---------------------------------------------------------|----------------------------------------|-----------------------------------------------|-------------------------------|-------------|
| Line pressure (wheel locked)                            | Engine idling                          |                                               |                               |             |
|                                                         | D position                             | 422–481 kPa                                   | 4.3–4.9 kgf/cm <sup>2</sup>   | 61–70 psi   |
|                                                         | R position                             | 510–608 kPa                                   | 5.2–6.2 kgf/cm <sup>2</sup>   | 74–88 psi   |
|                                                         | AT stall (Throttle valve fully opened) |                                               |                               |             |
|                                                         | D position                             | 932–1,177 kPa                                 | 9.5–12.0 kgf/cm <sup>2</sup>  | 135–171 psi |
|                                                         | R position                             | 1,294–1,638 kPa                               | 13.2–16.7 kgf/cm <sup>2</sup> | 188–238 psi |
| Engine stall revolution                                 | D and R positions                      | 1,950 ± 150 rpm                               |                               |             |
| Time lag                                                | N → D position                         | Less than 1.2 seconds                         |                               |             |
|                                                         | N → R position                         | Less than 1.5 seconds                         |                               |             |
| Engine idle speed (A/C OFF)                             | N position                             | 650 ± 50 rpm                                  |                               |             |
| Throttle cable adjustment (Throttle valve fully closed) |                                        | Between boot and face and inner cable stopper |                               |             |
|                                                         |                                        | 0–1 mm                                        | 0–0.04 in.                    |             |
| Torque converter clutch installation distance           |                                        | 15.7 mm                                       | 0.618 in.                     |             |
| Drive plate runout                                      | Max.                                   | 0.20 mm                                       | 0.0079 in.                    |             |
| Torque converter clutch runout                          | Max.                                   | 0.30 mm                                       | 0.0118 in.                    |             |

## SHIFT POINT

| Shift position | Shifting point                  | Vehicle speed km/h (mph) |
|----------------|---------------------------------|--------------------------|
| *D             | Throttle valve fully opened 1→2 | 56–62 (35–39)            |
|                | 2→3                             | 103–114 (64–71)          |
|                | 3→O/D                           | 152–163 (94–101)         |
|                | O/D→3                           | 145–156 (90–97)          |
|                | 3→2                             | 95–101 (59–63)           |
|                | 2→1                             | 42–47 (26–29)            |
| *2             | Throttle valve fully opened 3→2 | 116–127 (72–79)          |
| L              | Throttle valve fully opened 2→1 | 56–62 (38–39)            |

\*: There is no 1→2 up-shift and 2→1 down-shift in the 2nd START switch ON.

## LOCK-UP POINT

| D position<br>Throttle valve opening 5% | Lock-up ON km/h (mph) | Lock-up OFF km/h (mph) |
|-----------------------------------------|-----------------------|------------------------|
| NORM (2nd START)                        | 77–83 (48–52)         | 68–74 (42–46)          |
| PWR                                     | 77–83 (48–52)         | 68–74 (42–46)          |

## TORQUE SPECIFICATIONS

| Part tightened                                                      |      | N·m | kgf·cm | ft·lbf    |
|---------------------------------------------------------------------|------|-----|--------|-----------|
| Valve body x Transmission case                                      |      | 10  | 100    | 7         |
| Oil strainer case x Valve body                                      |      | 10  | 100    | 7         |
| Oil strainer x Valve body                                           |      | 6.9 | 70     | 61 in·lbf |
| Oil pan                                                             |      | 7.4 | 75     | 65 in·lbf |
| Drain plug                                                          |      | 20  | 205    | 15        |
| Parking lock pawl bracket x Transmission case                       |      | 7.4 | 75     | 65 in·lbf |
| Front propeller shaft x Front differential                          |      | 74  | 750    | 54        |
| Front propeller shaft x Transfer                                    |      | 74  | 750    | 54        |
| Rear propeller shaft x Transfer                                     |      | 88  | 900    | 65        |
| Rear propeller shaft x Rear differential                            |      | 88  | 900    | 65        |
| Drive plate x Crankshaft                                            |      | 98  | 1,000  | 72        |
| Torque converter clutch x Drive plate                               |      | 55  | 550    | 40        |
| Front exhaust pipe x Exhaust manifold                               |      | 62  | 630    | 46        |
| Front exhaust pipe x TWC                                            |      | 39  | 400    | 29        |
| Oil cooler pipe                                                     |      | 34  | 350    | 25        |
| Transmission x Engine                                               |      | 71  | 730    | 53        |
| Exhaust pipe clamp                                                  |      | 19  | 195    | 14        |
| Park/Neutral position switch                                        | Nut  | 6.9 | 70     | 61 in·lbf |
|                                                                     | Bolt | 13  | 130    | 9         |
| No.2 vehicle speed sensor                                           |      | 5.4 | 55     | 48 in·lbf |
| Speedometer driven gear sleeve x Locking plate                      |      | 16  | 160    | 12        |
| Starter mounting bolt                                               |      | 39  | 400    | 29        |
| Transfer shift lever                                                |      | 18  | 185    | 13        |
| Stabilizer bar bracket mounting bolt                                |      | 18  | 185    | 13        |
| Engine under cover mounting bolt                                    |      | 28  | 290    | 21        |
| Exhaust pipe No.1 support bracket x Torque converter clutch housing |      | 39  | 400    | 29        |
| Crossmember x Frame                                                 |      | 61  | 620    | 45        |
| Engine rear mounting x Crossmember                                  |      | 74  | 750    | 54        |
| Transmission shift lever x Body                                     |      | 13  | 130    | 9         |
| Oil cooler mounting bolt                                            |      | 11  | 115    | 8         |