

# SERVICE SPECIFICATIONS

|                                 | Page |
|---------------------------------|------|
| CLUTCH .....                    | A-2  |
| MANUAL TRANSMISSION .....       | A-2  |
| PROPELLER SHAFT .....           | A-5  |
| FRONT AXLE AND SUSPENSION ..... | A-6  |
| REAR AXLE AND SUSPENSION .....  | A-10 |
| BRAKE SYSTEM ...                | A-13 |
| STEERING .....                  | A-15 |
| DUMP MECHANISM .....            | A-18 |
| BODY .....                      | A-19 |
| LUBRICANTS .....                | A-20 |

**CLUTCH****Specifications**

|                                       |                    |            |                 |           |
|---------------------------------------|--------------------|------------|-----------------|-----------|
| Pedal height (from asphalt sheet)     | Regular cab        | 189 mm     | 7.74 in.        |           |
|                                       | Wide cab           | 188 mm     | 7.40 in.        |           |
| Pedal freeplay                        | w/o clutch booster | 5 – 18 mm  | 0.20 – 0.71 in. |           |
|                                       | w/ clutch booster  | 10 – 25 mm | 0.39 – 0.98 in. |           |
| Push rod play at pedal top            |                    | 1 – 5 mm   | 0.04 – 0.20 in. |           |
| Booster air valve stroke at pedal top |                    | 5 – 9 mm   | 0.20 – 0.35 in. |           |
| Booster push rod to piston clearance  | w/SST              | 0 mm       | 0 in.           |           |
| Disc rivet head depth                 | Limit              | 0.3 mm     | 0.012 in.       |           |
| Disc runout                           | Limit              | 0.8 mm     | 0.031 in.       |           |
| Diaphragm spring tip alignment        | Limit              | 1.0 mm     | 0.039 in.       |           |
| Diaphragm spring finger wear          | Depth              | Limit      | 0.6 mm          | 0.024 in. |
|                                       | Width              | Limit      | 5.0 mm          | 0.197 in. |
| Flywheel runout                       | Limit              | 0.2 mm     | 0.008 in.       |           |

**Tightening Torque**

| Tightening part                  | kg-cm         | ft-lb | N·m |
|----------------------------------|---------------|-------|-----|
| Clutch pedal boss x bracket      | 315           | 23    | 31  |
| Master cylinder union bolt       | 550           | 40    | 54  |
| Master cylinder x Clutch booster | 130           | 9     | 13  |
| Clutch booster x Bracket         | 130           | 9     | 13  |
| Release cylinder set bolt        | 120           | 9     | 12  |
| Release cylinder bleeder plug    | 110           | 8     | 11  |
| Clutch cover x Flywheel          | YU, RU series | 14    | 19  |
|                                  | BU, WU series | 19    | 25  |

**MANUAL TRANSMISSION****Specifications**

|                           |                                                       |       |                  |                     |
|---------------------------|-------------------------------------------------------|-------|------------------|---------------------|
| Manual Transmission (M52) | Output Shaft                                          |       |                  |                     |
|                           | Runout                                                | Limit | 0.06 mm          | 0.0024 in.          |
|                           | Gear thrust clearance                                 |       |                  |                     |
|                           | 1st & counter 5th gear                                | STD   | 0.15 – 0.3 mm    | 0.0059 – 0.0098 in. |
|                           |                                                       | Limit | 0.55 mm          | 0.0217 in.          |
|                           | 2nd & 3rd gear                                        | STD   | 0.15 – 0.3 mm    | 0.0059 – 0.0118 in. |
|                           |                                                       | Limit | 0.60 mm          | 0.0236 in.          |
|                           | Gear oil clearance                                    |       |                  |                     |
|                           | 1st & 2nd gear                                        | STD   | 0.009 – 0.012 mm | 0.0004 – 0.0024 in. |
|                           |                                                       | Limit | 0.16 mm          | 0.0063 in.          |
|                           | 3rd & Counter 5th gear                                | STD   | 0.065 – 0.15 mm  | 0.0026 – 0.0045 in. |
|                           |                                                       | Limit | 0.21 mm          | 0.0083 in.          |
|                           | Shift fork to hub sleeve clearance                    | Limit | 0.8 mm           | 0.031 in.           |
|                           | Reverse shift arm shoe to idler gear groove clearance | Limit | 0.8 mm           | 0.031 in.           |
|                           | Synchronizer ring to gear clearance                   | STD   | 1.1 – 1.5 mm     | 0.043 – 0.075 in.   |
|                           |                                                       | Limit | 0.9 mm           | 0.035 in.           |

## Specifications (Cont'd)

|                                    |                                                  |       |                |         |                     |
|------------------------------------|--------------------------------------------------|-------|----------------|---------|---------------------|
| Manual Transmission (M52) (Cont'd) | Input shaft snap ring thickness                  |       | Mark           |         |                     |
|                                    |                                                  |       | 11             | 2.35 mm | 0.0906 – 0.0925 in. |
|                                    |                                                  |       | 12             | 2.40 mm | 0.0925 – 0.0945 in. |
|                                    |                                                  |       | 13             | 2.45 mm | 0.0945 – 0.0965 in. |
|                                    |                                                  |       | 14             | 2.50 mm | 0.0965 – 0.0984 in. |
|                                    |                                                  |       | 15             | 2.55 mm | 0.0984 – 0.1004 in. |
|                                    |                                                  |       | 16             | 2.60 mm | 0.1004 – 0.1024 in. |
|                                    | Output shaft snap ring thickness                 |       | Mark           |         |                     |
|                                    |                                                  |       | 0              | 2.45 mm | 0.0945 – 0.0965 in. |
|                                    |                                                  |       | 1              | 2.50 mm | 0.0965 – 0.0984 in. |
|                                    |                                                  |       | 2              | 2.55 mm | 0.0984 – 0.1004 in. |
|                                    |                                                  |       | 3              | 2.60 mm | 0.1004 – 0.1024 in. |
|                                    |                                                  |       | 4              | 2.65 mm | 0.1024 – 0.1043 in. |
|                                    |                                                  |       | 5              | 2.70 mm | 0.1043 – 0.1063 in. |
|                                    | Counter gear snap ring thickness                 |       | Mark           |         |                     |
|                                    |                                                  |       | E              | 1.95 mm | 0.0748 – 0.0768 in. |
|                                    |                                                  |       | F              | 2.05 mm | 0.0787 – 0.0807 in. |
|                                    |                                                  |       | G              | 2.15 mm | 0.0827 – 0.0846 in. |
| Manual Transmission (H50)          | Output shaft                                     |       |                |         |                     |
|                                    | Runout                                           | Limit | 0.6 mm         |         | 0.0024 in.          |
|                                    | Reverse shift arm shoe to idler groove clearance | Limit | 0.3 mm         |         | 0.031 in.           |
|                                    | Shift fork to hub sleeve clearance               | Limit | 0.3 mm         |         | 0.031 in.           |
|                                    | Synchronizer ring to gear clearance              | STD   | 1.1 – 1.9 mm   |         | 0.043 – 0.075 in.   |
|                                    | 3rd, 4th and 5th                                 | Limit | 0.3 mm         |         | 0.035 in.           |
|                                    | Synchronizer ring to gear distance               |       |                |         |                     |
|                                    | 1st gear                                         | Limit | 32 mm          |         | 1.280 in.           |
|                                    | 2nd gear                                         | Limit | 38 mm          |         | 1.496 in.           |
|                                    | Gear thrust clearance                            |       |                |         |                     |
|                                    | 1st and 2nd                                      | STD   | 0.1 – 0.325 mm |         | 0.0069 – 0.0128 in. |
|                                    |                                                  | Limit | 0.8 mm         |         | 0.0244 in.          |
|                                    | 3rd                                              | STD   | 0.1 – 0.275 mm |         | 0.0049 – 0.0108 in. |
|                                    |                                                  | Limit | 0.8 mm         |         | 0.0224 in.          |
|                                    | Counter 5th                                      | STD   | 0.1 – 0.30 mm  |         | 0.0039 – 0.0118 in. |
|                                    |                                                  | Limit | 0.8 mm         |         | 0.0236 in.          |
|                                    | Gear oil clearance                               |       |                |         |                     |
|                                    | 1st and 2nd                                      | STD   | 0.0 – 0.073 mm |         | 0.0008 – 0.0029 in. |
|                                    |                                                  | Limit | 0.1 mm         |         | 0.0067 in.          |
|                                    | 3rd                                              | STD   | 0.0 – 0.115 mm |         | 0.0026 – 0.0045 in. |
|                                    |                                                  | Limit | 0.2 mm         |         | 0.0083 in.          |
|                                    | Counter                                          | STD   | 0.0 – 0.068 mm |         | 0.0006 – 0.0027 in. |
|                                    |                                                  | Limit | 0.1 mm         |         | 0.0063 in.          |
|                                    | Reverse idle                                     | STD   | 0.0 – 0.135 mm |         | 0.0024 – 0.0053 in. |
|                                    |                                                  | Limit | 0.2 mm         |         | 0.0091 in.          |

## Specifications (Cont'd)

|                                             |                                  |      |             |    |                     |
|---------------------------------------------|----------------------------------|------|-------------|----|---------------------|
| Manual<br>Transmission<br>(H50)<br>(Cont'd) | Input shaft snap ring thickness  |      | 3.20 – 3.31 | mm | 0.1260 – 0.1303 in. |
|                                             |                                  |      |             | mm | 0.1303 – 0.1346 in. |
|                                             | Output shaft snap ring thickness | Mark |             |    |                     |
|                                             |                                  | 0    | 2.40 – 2.45 | mm | 0.0945 – 0.0965 in. |
|                                             |                                  | 1    | 2.45 – 2.50 | mm | 0.0965 – 0.0984 in. |
|                                             |                                  | 2    | 2.50 – 2.55 | mm | 0.0984 – 0.1004 in. |
|                                             |                                  | 3    | 2.55 – 2.60 | mm | 0.1004 – 0.1024 in. |
|                                             |                                  | 4    | 2.60 – 2.65 | mm | 0.1024 – 0.1043 in. |
|                                             |                                  | 5    | 2.65 – 2.70 | mm | 0.1043 – 0.1063 in. |
|                                             | Counter gear snap ring thickness | Mark |             |    |                     |
|                                             |                                  | 0    | 2.05 – 2.15 | mm | 0.0807 – 0.0827 in. |
|                                             |                                  | 2    | 2.15 – 2.25 | mm | 0.0846 – 0.0866 in. |
|                                             |                                  | 4    | 2.25 – 2.35 | mm | 0.0886 – 0.0906 in. |

## Tightening Torque

|                     | Tightening part                                     | kg-cm | ft-lb     | N-m |
|---------------------|-----------------------------------------------------|-------|-----------|-----|
| M52<br>Transmission | Shift and select lever shaft lock bolt              | 260   | 19        | 25  |
|                     | Shift outer lever lock pin                          | 200   | 14        | 20  |
|                     | Select outer lever lock pin                         | 80    | 69 in.-lb | 7.8 |
|                     | 5th shift arm pivot nut                             | 270   | 20        | 26  |
|                     | Reverse idler gear lock plate                       | 130   | 9         | 13  |
|                     | Rear bearing retainer                               | 185   | 13        | 18  |
|                     | Front bearing retainer                              | 170   | 12        | 17  |
|                     | Counter gear rear lock nut                          | 1,300 | 94        | 127 |
|                     | Extension housing x Transmission case               | 600   | 43        | 59  |
|                     | Case cover x Transmission case                      | 530   | 38        | 52  |
|                     | Shift lever shaft housing x Case cover              | 195   | 14        | 19  |
|                     | Clutch housing x Transmission case                  | 650   | 47        | 64  |
|                     | Reverse shift arm pivot                             | 250   | 18        | 25  |
| H50<br>Transmission | Center bearing retainer                             | 185   | 13        | 18  |
|                     | Front bearing retainer                              | 170   | 12        | 17  |
|                     | Counter gear rear lock nut                          | 1,300 | 94        | 127 |
|                     | 5th shift arm x Shaft                               | 400   | 29        | 39  |
|                     | Shift lever shaft x Pressure switch                 | 160   | 12        | 16  |
|                     | Shift outer lever lock pin                          | 200   | 14        | 20  |
|                     | Select outer lever lock pin                         | 80    | 69 in.-lb | 7.8 |
|                     | Extension housing x Transmission case               |       |           |     |
|                     | Short bolt                                          | 600   | 43        | 59  |
|                     | Long bolt                                           | 400   | 29        | 39  |
|                     | Straight screw plug for 5th locking ball and spring | 250   | 18        | 25  |
|                     | Clutch housing x Transmission case                  | 730   | 53        | 72  |
|                     | Case cover x Transmission case                      | 530   | 38        | 52  |
|                     | Shift lever housing x Case cover                    | 195   | 14        | 19  |
|                     | Reverse shift arm pivot lock nut                    | 250   | 18        | 25  |
|                     | Parking Brake drum lock nut                         | 1,300 | 94        | 127 |

**PROPELLER SHAFT****Specifications**

|                                         |           |                   |                     |
|-----------------------------------------|-----------|-------------------|---------------------|
| Propeller and intermediate shaft runout | Limit     | mm                | 0.031 in.           |
| Spider bearing axial play               |           | less than 0.05 mm | 0.0020 in.          |
| Snap ring thickness                     | Color     |                   |                     |
|                                         | Uncolored | 1.35 – 2.015 mm   | 0.0781 – 0.0793 in. |
|                                         | Brown     | 2.05 – 2.045 mm   | 0.0793 – 0.0805 in. |
|                                         | Blue      | 2.05 – 2.075 mm   | 0.0805 – 0.0817 in. |
|                                         | Uncolored | 2.05 – 2.105 mm   | 0.0817 – 0.0829 in. |

**Tightening Torque**

| Tightening part                                     | kg-m | ft-lb | N-m |
|-----------------------------------------------------|------|-------|-----|
| Intermediate shaft x Center bearing x Joint flange  | 12.0 | 123   | 167 |
| Propeller shaft flange yoke x Center bearing flange | 6.0  | 65    | 88  |
| Intermediate shaft flange x Parking brake drum      | 6.0  | 65    | 88  |
| Propeller shaft flange yoke x Companion flange      | 6.0  | 65    | 88  |
| Center bearing bracket x Member                     | 2.0  | 18    | 25  |

## FRONT AXLE AND SUSPENSION

## Specifications

| (Regular Cab)<br>Cold tire<br>inflation<br>pressure | Model                                                | Tire size                        |                                                 | Inflation pressure<br>kg/cm <sup>2</sup> (psi, kPa) |                   |
|-----------------------------------------------------|------------------------------------------------------|----------------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------|
|                                                     |                                                      | Front                            | Rear                                            | Front                                               | Rear              |
|                                                     | BU60R(L)-MD<br>BU60R(L)-MDB<br>YU60L-MD<br>YU60L-MDB | 7.00-15-8PRLT                    | 7.50-15-10PRL<br>7.50-15-12PRL<br>7.50-15-14PRL | 3.75<br>(53, 368)                                   | 5.25<br>(75, 515) |
|                                                     |                                                      | 7.00R15-8PRLT                    | 7.50R15-12PRL                                   | 4.00<br>(57, 392)                                   | 5.75<br>(82, 564) |
|                                                     |                                                      | 7.00-16-12PRLT                   | 7.00-16-12PRL                                   | 3.50<br>(50, 343)                                   | 5.75<br>(82, 564) |
|                                                     | BU61R-MD                                             | 7.00-15-8PRLT                    | 7.50-15-10PRL<br>7.50-15-12PRL<br>7.50-15-14PRL | 3.75<br>(53, 368)                                   | 5.25<br>(75, 515) |
|                                                     |                                                      | 7.00R15-8PRLT                    | 7.50R15-12PRL                                   | 4.00<br>(57, 392)                                   | 5.75<br>(82, 564) |
|                                                     |                                                      | 7.50-15-10PRLT                   | 7.50-15-10PRL<br>7.50-15-12PRL<br>7.50-15-14PRL | 3.00<br>(43, 294)                                   | 5.25<br>(75, 515) |
|                                                     | BU60R(L)-MDP<br>YU60L-MDP                            | 7.00-15-6PRLT<br>7.00-15-8PRLT   | 7.50-15-12PRL<br>7.50-15-14PRL                  | 3.75<br>(53, 368)                                   | 5.50<br>(78, 539) |
|                                                     |                                                      | 7.00R15-8PRLT                    | 7.50R15-12PR                                    | 4.00<br>(57, 392)                                   | 6.00<br>(85, 588) |
|                                                     |                                                      | 7.00-16-12PRLT                   | 7.00-16-12PRL                                   | 3.50<br>(50, 343)                                   | 5.75<br>(82, 564) |
|                                                     | BU70LV-MD<br>BU70LB-MD<br>YU70LV-MD<br>YU70LB-MD     | 7.00-15-8PRLT                    | 7.50-15-12PRL<br>7.50-15-14PR                   | 3.75<br>(53, 368)                                   | 5.50<br>(78, 539) |
|                                                     |                                                      | 7.00R15-8PRLT                    | 7.50R15-12PR                                    | 4.00<br>(57, 392)                                   | 6.00<br>(85, 588) |
|                                                     |                                                      | 7.00-16-12PRLT                   | 7.00-16-12PR                                    | 3.50<br>(50, 343)                                   | 5.75<br>(82, 564) |
|                                                     | BU63RD-MDT<br>YU61LD-MDT                             | 6.50-16-8PRLT                    | 6.50-16-8PRLT                                   | 4.25<br>(60, 417)                                   | 3.25<br>(46, 319) |
|                                                     |                                                      | 6.50-16-10PRLT                   | 6.50-16-10PRL                                   | 4.75<br>(68, 466)                                   | 3.25<br>(46, 319) |
|                                                     | BU60R(L)-MDBT<br>BU61R(L)-MDBT<br>YU60R(L)-MDBT      | 6.50-16-8PRLT                    | 6.50-16-8PRL                                    | 4.25<br>(60, 417)                                   | 3.00<br>(43, 294) |
|                                                     |                                                      | 6.50-16-10PRLT                   | 6.50-16-10PR                                    |                                                     |                   |
|                                                     |                                                      | 6.50R16-10PRLT                   | 6.50R16-10PR                                    | 4.75<br>(68, 466)                                   | 3.50<br>(50, 343) |
|                                                     |                                                      | 7.00-16-10PRLT<br>7.00-16-12PRLT | 7.00-16-10PR<br>7.00-16-12PR                    | 4.00<br>(57, 392)                                   | 3.00<br>(43, 294) |
|                                                     | BU80R(L)-MDDT<br>BU81R(L)-MDDT<br>YU80R(L)-MDDT      | 6.50-16-10PRLT                   | 6.50-16-10PR                                    | 5.00<br>(71, 490)                                   | 4.25<br>(60, 417) |
|                                                     |                                                      | 6.50R16-10PRLT                   | 6.50R16-10PR                                    | 5.50<br>(78, 539)                                   | 4.75<br>(68, 466) |
|                                                     |                                                      | 7.00-16-10PRLT<br>7.00-16-12PRLT | 7.00-16-10PR<br>7.00-16-12PR                    | 4.25<br>(60, 417)                                   | 3.50<br>(50, 343) |
|                                                     | BU60R-MDGT<br>BU80R-MDGT                             | 7.00R15-8PRLT                    | 175R14-8PRL                                     | 4.25<br>(60, 417)                                   | 4.25<br>(60, 417) |

## Specifications (Cont'd)

|                                                                 |                            |                                  |                   |                                                     |                   |  |
|-----------------------------------------------------------------|----------------------------|----------------------------------|-------------------|-----------------------------------------------------|-------------------|--|
| (Regular Cab)<br>Cold tire<br>inflation<br>pressure<br>(Cont'd) | Model                      | Tire size                        |                   | Inflation pressure<br>kg/cm <sup>2</sup> (psi, kPa) |                   |  |
|                                                                 |                            | Front                            | Rear              | Front                                               | Rear              |  |
|                                                                 | BU80R-MDDTY<br>BU81R-MDDTY | 7.00-16-12PRLT                   | 7.00-16-12PRLT    | 4.75<br>(68, 466)                                   | 3.75<br>(53, 368) |  |
|                                                                 | BU82R-MDDTY                | 7.00-16-12PRLT                   | 7.00-16-12PRLT    | 4.75<br>(68, 466)                                   | 4.50<br>(64, 441) |  |
|                                                                 | BU62LH-MDDHT               | 7.00-16-10PRLT                   | 7.00-16-10PRLT    | 4.25<br>(60, 417)                                   | 4.00<br>(57, 392) |  |
|                                                                 |                            | 7.00-16-12PRLT                   | 7.00-16-12PRLT    |                                                     |                   |  |
|                                                                 | YU60L-MDBTW                | 6.50R16-8PRLT                    | 6.50R16-8PRLT     | 3.50<br>(50, 343)                                   | 3.00<br>(43, 294) |  |
|                                                                 | BU60R-MDPQ                 | 7.00-15-6PRLT                    | 7.50-15-6PRLT     | 3.00<br>(43, 294)                                   | 5.00<br>(71, 490) |  |
|                                                                 |                            | 7.00R15-8PRLT                    | 7.50R15-8PRLT     | 3.25<br>(46, 319)                                   | 5.50<br>(78, 539) |  |
|                                                                 | BU63RD-MDTQ                | 6.50-16-8PRLT                    | 6.50-16-8PRLT     | 4.25<br>(60, 417)                                   | 3.00<br>(43, 294) |  |
|                                                                 |                            | 6.50-16-10PRLT                   | 6.50-16-10PRLT    |                                                     |                   |  |
|                                                                 | BU60R-MDBQ                 | 7.00-15-8PRLT                    | 7.50-15-8PRLT     | 4.00<br>(57, 392)                                   | 5.00<br>(71, 490) |  |
| 7.00R15-8PRLT                                                   |                            | 7.50R15-8PRLT                    | 4.25<br>(60, 417) | 5.50<br>(78, 539)                                   |                   |  |
| BU60R-MDBTQ3                                                    | 6.50-16-8PRLT              | 6.50-16-8PRLT                    | 4.25<br>(60, 417) | 3.00<br>(43, 294)                                   |                   |  |
|                                                                 | 6.50-16-10PRLT             | 6.50-16-10PRLT                   |                   |                                                     |                   |  |
|                                                                 | 6.50R16-10PRLT             | 6.50R16-10PRLT                   | 4.75<br>(68, 466) | 3.50<br>(50, 343)                                   |                   |  |
| (Wide Cab)<br>Cold tire<br>inflation<br>pressure                | Model                      | Tire size                        |                   | Inflation pressure<br>kg/cm <sup>2</sup> (psi, kPa) |                   |  |
|                                                                 |                            |                                  |                   | Front                                               | Rear              |  |
|                                                                 | RU75, BU75<br>and BU76     | 6.50-16-10PRLT                   |                   | 4.75<br>(68, 466)                                   | 3.25<br>(46, 319) |  |
|                                                                 |                            | 6.50R16-10PRLT                   |                   | 5.25<br>(75, 515)                                   | 3.75<br>(53, 368) |  |
|                                                                 | RU85, BU85                 | 7.00-16-10PRLT<br>7.00-16-12PRLT |                   | 5.00<br>(71, 490)                                   | 4.25<br>(60, 417) |  |
|                                                                 |                            | 7.00R16-10PRLT                   |                   | 5.25<br>(75, 515)                                   | 4.50<br>(64, 441) |  |
|                                                                 | WU90                       | 7.50-16-10PRLT<br>7.50-16-12PRLT |                   | 4.75<br>(68, 466)                                   | 4.75<br>(68, 466) |  |
|                                                                 |                            | 7.50R16-10PRLT                   |                   | 5.25<br>(75, 515)                                   | 5.25<br>(75, 515) |  |
|                                                                 | WU95                       | 7.50-16-10PRLT<br>7.50-16-12PRLT |                   | 5.00<br>(71, 490)                                   | 4.50<br>(64, 441) |  |
|                                                                 |                            | 7.50R16-10PRLT                   |                   | 5.50<br>(78, 539)                                   | 5.00<br>(71, 490) |  |
|                                                                 | Front wheel<br>alignment   | Camber                           | Regular cab       | 30' ± 1°                                            |                   |  |
|                                                                 |                            | King pin angle                   | Wide cab          | 00' ± 1°                                            |                   |  |
|                                                                 |                            | Regular cab                      | 30' ± 1°          |                                                     |                   |  |
|                                                                 |                            | Wide cab                         | 00' ± 1°          |                                                     |                   |  |

## Specifications (Cont'd)

|                                                   |                    |                                             |               |                               |                             |
|---------------------------------------------------|--------------------|---------------------------------------------|---------------|-------------------------------|-----------------------------|
| Front wheel alignment<br>(cont'd)                 | Caster             | Van and Bus, Just low<br>(Short wheel base) |               | 3°00'                         |                             |
|                                                   |                    | Single tire, Just low<br>(Long wheel base)  |               | 2°30'                         |                             |
|                                                   |                    | WU series                                   |               | 1°20'                         |                             |
|                                                   |                    | Others                                      |               | 2°00'                         |                             |
|                                                   | Toe-in             |                                             |               |                               |                             |
|                                                   | Inspection STD     | Regular cab                                 | Bias tire     | 1.5 ±                         | mm (0.059 ± 0.059 in.)      |
|                                                   |                    |                                             | Radial tire   | 0.5 ±                         | mm (0.020 ± 0.059 in.)      |
|                                                   |                    | Wide cab                                    | Bias tire     | 3.5 ±                         | mm (0.138 ± 0.059 in.)      |
|                                                   |                    |                                             | Radial tire   | 1.5 ±                         | mm (0.059 ± 0.059 in.)      |
|                                                   | Adjustment STD     | Regular cab                                 | Bias tire     | 1.5 ±                         | mm (0.059 ± 0.020 in.)      |
|                                                   |                    |                                             | Radial tire   | 0.5 ±                         | mm (0.020 ± 0.020 in.)      |
|                                                   |                    | Wide cab                                    | Bias tire     | 3.5 ±                         | mm (0.138 ± 0.020 in.)      |
|                                                   |                    |                                             | Radial tire   | 1.5 ±                         | mm (0.059 ± 0.020 in.)      |
|                                                   | Wheel angle        | Regular cab                                 | Inside        | 39°00'                        |                             |
|                                                   |                    |                                             | Outside       | 28°47'                        | (reference)                 |
|                                                   |                    | Wide cab                                    | BU, RU series |                               |                             |
|                                                   |                    |                                             | Inside        | 38°30'                        |                             |
|                                                   |                    |                                             | Outside       | 29°15'                        | (reference)                 |
|                                                   |                    | WU series                                   | Inside        | 40° +0°<br>-3°                |                             |
|                                                   |                    |                                             | Outside       | 30°35'                        | (reference)                 |
|                                                   | At 20° wheel angle | Regular cab                                 |               | 23°30'                        |                             |
|                                                   |                    | Wide cab                                    |               | 23°00'                        |                             |
|                                                   | Side slip limit    |                                             |               | Less than                     | 3.0 mm/m (0.118 in./3.3 ft) |
| Wheel bearing preload (Starting load at hub bolt) |                    |                                             |               |                               |                             |
|                                                   |                    | Single tire, Just low                       | 0.5 – 2       | kg (1.1 – 4.6 lb, 5 – 21 N)   |                             |
|                                                   |                    | Others                                      | 0.5 –         | kg (1.1 – 4.2 lb, 5 – 19 N)   |                             |
|                                                   |                    | BU, YU, RU series                           | 1.8 – 4       | kg (4.0 – 9.9 lb, 18 – 44 N)  |                             |
|                                                   |                    | WU series                                   | Less than     | 0.05 mm (0.0020 in.)          |                             |
| Hub axial play                                    |                    |                                             |               |                               |                             |
| King pin bushing inner diameter                   |                    | BU, YU, RU series                           | 28.01 –       | 8.03 mm (1.1028 – 1.1035 in.) |                             |
|                                                   |                    | WU series                                   | 34.98 –       | 5.06 mm (1.3772 – 1.3803 in.) |                             |
| King pin thrust clearance                         |                    |                                             | Less than     | 0.1 mm (0.004 in.)            |                             |
| Thickness of thrust washer for king pin           |                    | BU, YU, RU series                           | 0.20 mm       | 0.0079 in.)                   |                             |
|                                                   |                    |                                             | 0.25 mm       | 0.0098 in.)                   |                             |
|                                                   |                    |                                             | 0.30 mm       | 0.0118 in.)                   |                             |
|                                                   |                    |                                             | 0.35 mm       | 0.0138 in.)                   |                             |
|                                                   |                    |                                             | 0.40 mm       | 0.0157 in.)                   |                             |
|                                                   |                    |                                             | 0.45 mm       | 0.0177 in.)                   |                             |
|                                                   |                    | WU series                                   | 1.9 mm        | .075 in.)                     |                             |
|                                                   |                    |                                             | 2.0 mm        | .079 in.)                     |                             |
|                                                   |                    |                                             | 2.1 mm        | .083 in.)                     |                             |
|                                                   |                    |                                             | 2.2 mm        | .087 in.)                     |                             |
|                                                   |                    |                                             | 2.3 mm        | .091 in.)                     |                             |
|                                                   |                    |                                             | 2.4 mm        | .094 in.)                     |                             |
|                                                   |                    |                                             | 2.5 mm        | .098 in.)                     |                             |
|                                                   |                    |                                             | 2.6 mm        | .102 in.)                     |                             |

## Specifications (Cont'd)

| (Regular Cab)<br>Cold tire<br>inflation<br>pressure<br>(Cont'd) | Model                      | Tire size                        |                | Inflation pressure<br>kg/cm <sup>2</sup> (psi, kPa) |                   |
|-----------------------------------------------------------------|----------------------------|----------------------------------|----------------|-----------------------------------------------------|-------------------|
|                                                                 |                            | Front                            | Rear           | Front                                               | Rear              |
|                                                                 | BU80R-MDDTY<br>BU81R-MDDTY | 7.00-16-12PRLT                   | 7.00-16-12PRLT | 4.75<br>(68, 466)                                   | 3.75<br>(53, 368) |
|                                                                 | BU82R-MDDTY                | 7.00-16-12PRLT                   | 7.00-16-12PRLT | 4.75<br>(68, 466)                                   | 4.50<br>(64, 441) |
|                                                                 | BU62LH-MDDHT               | 7.00-16-10PRLT                   | 7.00-16-10PRLT | 4.25<br>(60, 417)                                   | 4.00<br>(57, 392) |
|                                                                 |                            | 7.00-16-12PRLT                   | 7.00-16-12PRLT |                                                     |                   |
|                                                                 | YU60L-MDBTW                | 6.50R16-8PRLT                    | 6.50R16-8PRLT  | 3.50<br>(50, 343)                                   | 3.00<br>(43, 294) |
|                                                                 | BU60R-MDPQ                 | 7.00-15-6PRLT                    | 7.50-15-6PRLT  | 3.00<br>(43, 294)                                   | 5.00<br>(71, 490) |
|                                                                 |                            | 7.00R15-8PRLT                    | 7.50R15-8PRLT  | 3.25<br>(46, 319)                                   | 5.50<br>(78, 539) |
|                                                                 | BU63RD-MDTQ                | 6.50-16-8PRLT                    | 6.50-16-8PRLT  | 4.25<br>(60, 417)                                   | 3.00<br>(43, 294) |
|                                                                 |                            | 6.50-16-10PRLT                   | 6.50-16-10PRLT |                                                     |                   |
|                                                                 | BU60R-MDBQ                 | 7.00-15-8PRLT                    | 7.50-15-8PRLT  | 4.00<br>(57, 392)                                   | 5.00<br>(71, 490) |
|                                                                 |                            | 7.00R15-8PRLT                    | 7.50R15-8PRLT  | 4.25<br>(60, 417)                                   | 5.50<br>(78, 539) |
|                                                                 | BU60R-MDBTQ3               | 6.50-16-8PRLT                    | 6.50-16-8PRLT  | 4.25<br>(60, 417)                                   | 3.00<br>(43, 294) |
|                                                                 |                            | 6.50-16-10PRLT                   | 6.50-16-10PRLT |                                                     |                   |
| (Wide Cab)<br>Cold tire<br>inflation<br>pressure                | Model                      | Tire size                        |                | Inflation pressure<br>kg/cm <sup>2</sup> (psi, kPa) |                   |
|                                                                 |                            |                                  |                | Front                                               | Rear              |
|                                                                 | RU75, BU75<br>and BU76     | 6.50-16-10PRLT                   |                | 4.75<br>(68, 466)                                   | 3.25<br>(46, 319) |
|                                                                 |                            | 6.50R16-10PRLT                   |                | 5.25<br>(75, 515)                                   | 3.75<br>(53, 368) |
|                                                                 | RU85, BU85                 | 7.00-16-10PRLT<br>7.00-16-12PRLT |                | 5.00<br>(71, 490)                                   | 4.25<br>(60, 417) |
|                                                                 |                            | 7.00R16-10PRLT                   |                | 5.25<br>(75, 515)                                   | 4.50<br>(64, 441) |
|                                                                 | WU90                       | 7.50-16-10PRLT<br>7.50-16-12PRLT |                | 4.75<br>(68, 466)                                   | 4.75<br>(68, 466) |
|                                                                 |                            | 7.50R16-10PRLT                   |                | 5.25<br>(75, 515)                                   | 5.25<br>(75, 515) |
|                                                                 | WU95                       | 7.50-16-10PRLT<br>7.50-16-12PRLT |                | 5.00<br>(71, 490)                                   | 4.50<br>(64, 441) |
|                                                                 |                            | 7.50R16-10PRLT                   |                | 5.50<br>(78, 539)                                   | 5.00<br>(71, 490) |
| Front wheel<br>alignment                                        | Camber                     | Regular cab                      |                | 0°30' ± 1°                                          |                   |
|                                                                 | King pin angle             | Wide cab                         |                | 1°00' ± 1°                                          |                   |
|                                                                 |                            | Regular cab                      |                | 7°30' ± 1°                                          |                   |
|                                                                 |                            | Wide cab                         |                | 7°00' ± 1°                                          |                   |

## Specifications (Cont'd)

|                                                           |                |                                             |                    |                                       |
|-----------------------------------------------------------|----------------|---------------------------------------------|--------------------|---------------------------------------|
| Front wheel alignment<br>(cont'd)                         | Caster         | Van and Bus, Just low<br>(Short wheel base) |                    | 3°00' ± 0.5°                          |
|                                                           |                | Single tire, Just low<br>(Long wheel base)  |                    | 2°30' ± 0.5°                          |
|                                                           |                | WU series                                   |                    | 1°20' ± 0.5°                          |
|                                                           |                | Others                                      |                    | 2°00' ± 0.5°                          |
|                                                           | Toe-in         |                                             |                    |                                       |
|                                                           | Inspection STD | Regular cab                                 | Bias tire          | 1.5 ± 0.5 mm (0.059 ± 0.059 in.)      |
|                                                           |                |                                             | Radial tire        | 0.5 ± 0.5 mm (0.020 ± 0.059 in.)      |
|                                                           |                | Wide cab                                    | Bias tire          | 3.5 ± 0.5 mm (0.138 ± 0.059 in.)      |
|                                                           |                |                                             | Radial tire        | 1.5 ± 0.5 mm (0.059 ± 0.059 in.)      |
|                                                           | Adjustment STD | Regular cab                                 | Bias tire          | 1.5 ± 0.5 mm (0.059 ± 0.020 in.)      |
|                                                           |                |                                             | Radial tire        | 0.5 ± 0.5 mm (0.020 ± 0.020 in.)      |
|                                                           |                | Wide cab                                    | Bias tire          | 3.5 ± 0.5 mm (0.138 ± 0.020 in.)      |
|                                                           |                |                                             | Radial tire        | 1.5 ± 0.5 mm (0.059 ± 0.020 in.)      |
|                                                           | Wheel angle    | Regular cab                                 | Inside             | 39°00'                                |
|                                                           |                |                                             | Outside            | 28°47' (reference)                    |
| Wide cab                                                  |                | BU, RU series                               |                    |                                       |
|                                                           |                | Inside                                      | 38°30'             |                                       |
|                                                           |                | Outside                                     | 29°15' (reference) |                                       |
|                                                           |                | WU series                                   |                    |                                       |
| At 20° wheel angle                                        | Regular cab    | Inside                                      | 40° +0° -3°        |                                       |
|                                                           |                | Outside                                     | 30°35' (reference) |                                       |
|                                                           | Wide cab       |                                             | 23°30'             |                                       |
|                                                           |                |                                             |                    | 23°00'                                |
| Side slip limit                                           |                |                                             |                    | Less than 3.0 mm/m (0.118 in./3.3 ft) |
| Wheel bearing preload (Starting load at hub bolt)         |                |                                             |                    |                                       |
| Single tire, Just low                                     |                |                                             |                    | 0.5 – 2 kg (1.1 – 4.6 lb, 5 – 21 N)   |
| Others BU, YU, RU series                                  |                |                                             |                    | 0.5 – 1 kg (1.1 – 4.2 lb, 5 – 19 N)   |
| WU series                                                 |                |                                             |                    | 1.8 – 4 kg (4.0 – 9.9 lb, 18 – 44 N)  |
| Hub axial play                                            |                |                                             |                    | Less than 0.05 mm (0.0020 in.)        |
| King pin bushing inner diameter                           |                |                                             |                    | 28.01 – 8.03 mm (1.1028 – 1.1035 in.) |
| WU series                                                 |                |                                             |                    | 34.98 – 5.06 mm (1.3772 – 1.3803 in.) |
| King pin thrust clearance                                 |                |                                             |                    | Less than 0.1 mm (0.004 in.)          |
| Thickness of thrust washer for king pin BU, YU, RU series |                |                                             |                    | 0.20 mm 0.0079 in.)                   |
|                                                           |                |                                             |                    | 0.25 mm 0.0098 in.)                   |
|                                                           |                |                                             |                    | 0.30 mm 0.0118 in.)                   |
|                                                           |                |                                             |                    | 0.35 mm 0.0138 in.)                   |
|                                                           |                |                                             |                    | 0.40 mm 0.0157 in.)                   |
|                                                           |                |                                             |                    | 0.45 mm 0.0177 in.)                   |
| WU series                                                 |                |                                             |                    | 1.9 mm 0.075 in.)                     |
|                                                           |                |                                             |                    | 2.0 mm 0.079 in.)                     |
|                                                           |                |                                             |                    | 2.1 mm 0.083 in.)                     |
|                                                           |                |                                             |                    | 2.2 mm 0.087 in.)                     |
|                                                           |                |                                             |                    | 2.3 mm 0.091 in.)                     |
|                                                           |                |                                             |                    | 2.4 mm 0.094 in.)                     |
|                                                           |                |                                             |                    | 2.5 mm 0.098 in.)                     |
|                                                           |                |                                             |                    | 2.6 mm 0.102 in.)                     |

**Tightening Torque**

| Tightening part                  |                          | kg-cm     | ft-lb   | N·m     |
|----------------------------------|--------------------------|-----------|---------|---------|
| Tie rod tube clamp lock nut      | BU, YU, RU series        | 375       | 27      | 37      |
|                                  | WU series                | 760       | 55      | 74      |
| King pin stopper bolt            |                          | 380       | 27      | 37      |
| Knuckle stopper bolt             |                          | 260       | 19      | 25      |
| Hub bolt x Axle hub              | Regular cab              | 750       | 271     | 368     |
|                                  | Wide cab                 | 900       | 289     | 392     |
| Brake drum x Axle hub            | BU, YU, RU series        | 450       | 105     | 142     |
|                                  | WU series                | 550       | 148     | 201     |
| Hub bearing lock nut             | BU, YU, RU series        | 350 – 400 | 26 – 28 | 35 – 39 |
|                                  | WU series                | 100       | 80      | 108     |
| Hub nut                          | Single tire and just low | 750       | 271     | 368     |
|                                  | Others                   | 250       | 380     | 515     |
| Shock absorber x Frame           |                          | 240       | 17      | 24      |
| Shock absorber x I-Beam          |                          | 240       | 17      | 24      |
| Stabilizer bar x Stabilizer link |                          | 175       | 13      | 17      |
| Stabilizer bar x I-Beam          |                          | 570       | 41      | 56      |
| Stabilizer link x Frame          |                          | 175       | 13      | 17      |
| Shackle x Rear hanger            | Regular cab              | 350       | 69      | 93      |
|                                  | Wide cab                 | 250       | 163     | 221     |
| Shackle x Leaf spring            |                          | 250       | 163     | 221     |
| Leaf spring x Front hanger       |                          | 250       | 163     | 221     |

## REAR AXLE AND SUSPENSION

### Specifications

|                                                       |                          |                        |                                  |                               |
|-------------------------------------------------------|--------------------------|------------------------|----------------------------------|-------------------------------|
| Wheel bearing preload (Starting load at hub bolt)     |                          |                        |                                  |                               |
|                                                       | Single tire, Just low    | 1.1 – 3.3 kg           | – 7.3 lb                         | 11 – 32 N                     |
|                                                       | Others BU, YU, RU series | 1.0 – 3.0 kg           | – 6.6 lb                         | 10 – 29 N                     |
|                                                       | WU series                | 0.9 – 2.3 kg           | – 5.1 lb                         | 9 – 23 N                      |
| Hub axial play                                        |                          | Less than 0.10 mm      | 0.0039 in.)                      |                               |
| Drive pinion bearing preload (at starting)            |                          |                        |                                  |                               |
|                                                       | New bearing              | 10.5 in.               | 19 – 55 kg-cm                    | 5 – 47.7 in.-lb 1.9 – 5.4 N·m |
|                                                       |                          | 12 in.                 | 15 – 51 kg-cm                    | 0 – 44.3 in.-lb 1.5 – 5.0 N·m |
|                                                       | Reused bearing           |                        | 8 – 13 kg-cm                     | 9 – 11.3 in.-lb 0.8 – 1.3 N·m |
| Total preload                                         |                          | New and reused bearing | Add drive pinion bearing preload |                               |
|                                                       |                          |                        | 2 – 4 kg-cm                      | – 3.5 in.-lb 0.2 – 0.4 N·m    |
| Drive pinion to ring gear backlash                    |                          |                        | 0.15 – 0.20 mm                   | 0.0059 – 0.0079 in.           |
| Pinion gear to side gear backlash                     |                          |                        | 0.02 – 0.20 mm                   | 0.0008 – 0.0079 in.           |
| Ring gear runout                                      |                          | Limit                  | 0.10 mm                          | 0.0039 in.                    |
| Companion flange run out                              |                          | Max. Surface           | 0.10 mm                          | 0.0039 in.                    |
|                                                       |                          | Max. shaft             | 0.10 mm                          | 0.0039 in.                    |
| Side gear thrust washer thickness                     |                          | 10.5 in.               | 1.60 mm                          | 0.0630 in.                    |
|                                                       |                          |                        | 1.75 mm                          | 0.0689 in.                    |
|                                                       |                          |                        | 1.90 mm                          | 0.0748 in.                    |
|                                                       |                          |                        | 2.05 mm                          | 0.0807 in.                    |
|                                                       |                          | 12 in.                 | 1.40 mm                          | 0.0551 in.                    |
|                                                       |                          |                        | 1.50 mm                          | 0.0591 in.                    |
|                                                       |                          |                        | 1.60 mm                          | 0.0630 in.                    |
|                                                       |                          |                        | 1.70 mm                          | 0.0669 in.                    |
| Drive pinion bearing preload adjusting shim thickness |                          | 10.5 in.               |                                  |                               |
|                                                       |                          | (A group)              | 1.90 mm                          | 0.0748 in.                    |
|                                                       |                          |                        | 2.00 mm                          | 0.0787 in.                    |
|                                                       |                          |                        | 2.10 mm                          | 0.0827 in.                    |
|                                                       |                          |                        | 2.20 mm                          | 0.0866 in.                    |
|                                                       |                          |                        | 2.30 mm                          | 0.0906 in.                    |
|                                                       |                          |                        | 2.40 mm                          | 0.0945 in.                    |
|                                                       |                          |                        | 2.50 mm                          | 0.0984 in.                    |
|                                                       |                          |                        | 2.60 mm                          | 0.1024 in.                    |
|                                                       |                          |                        | 2.70 mm                          | 0.1063 in.                    |
|                                                       |                          |                        | 2.80 mm                          | 0.1102 in.                    |
|                                                       |                          |                        | 2.90 mm                          | 0.1142 in.                    |
|                                                       |                          |                        | 3.00 mm                          | 0.1181 in.                    |
|                                                       |                          | (B group)              | 1.80 mm                          | 0.0709 in.                    |
|                                                       |                          |                        | 1.81 mm                          | 0.0713 in.                    |
|                                                       |                          |                        | 1.82 mm                          | 0.0717 in.                    |
|                                                       |                          |                        | 1.83 mm                          | 0.0720 in.                    |
|                                                       |                          |                        | 1.84 mm                          | 0.0724 in.                    |
|                                                       |                          |                        | 1.85 mm                          | 0.0728 in.                    |
|                                                       |                          |                        | 1.86 mm                          | 0.0732 in.                    |
|                                                       |                          |                        | 1.87 mm                          | 0.0736 in.                    |
|                                                       |                          |                        | 1.88 mm                          | 0.0740 in.                    |
|                                                       |                          |                        | 1.89 mm                          | 0.0744 in.                    |

## Specifications (Cont'd)

|                                                          |                               |            |            |
|----------------------------------------------------------|-------------------------------|------------|------------|
| Drive pinion bearing preload<br>adjusting shim thickness | 12 in. (A group)              | 1.90 mm    | 0.0748 in. |
|                                                          |                               | 2.00 mm    | 0.0787 in. |
|                                                          |                               | 2.10 mm    | 0.0827 in. |
|                                                          |                               | 2.20 mm    | 0.0866 in. |
|                                                          |                               | 2.30 mm    | 0.0906 in. |
|                                                          |                               | 2.40 mm    | 0.0945 in. |
|                                                          |                               | 2.50 mm    | 0.0984 in. |
|                                                          |                               | 2.60 mm    | 0.1024 in. |
|                                                          |                               | 2.70 mm    | 0.1063 in. |
|                                                          |                               | 2.80 mm    | 0.1102 in. |
|                                                          | (B group)                     | 2.90 mm    | 0.1142 in. |
|                                                          |                               | 3.00 mm    | 0.1181 in. |
|                                                          |                               | 3.10 mm    | 0.1220 in. |
|                                                          |                               | 3.20 mm    | 0.1260 in. |
|                                                          |                               | 3.30 mm    | 0.1299 in. |
|                                                          |                               | 1.80 mm    | 0.0709 in. |
|                                                          |                               | 1.81 mm    | 0.0713 in. |
|                                                          |                               | 1.82 mm    | 0.0717 in. |
|                                                          |                               | 1.83 mm    | 0.0720 in. |
|                                                          |                               | 1.84 mm    | 0.0724 in. |
|                                                          | Drive pinion washer thickness | 1.85 mm    | 0.0728 in. |
|                                                          |                               | 1.86 mm    | 0.0732 in. |
|                                                          |                               | 1.87 mm    | 0.0736 in. |
|                                                          |                               | 1.88 mm    | 0.0740 in. |
|                                                          |                               | 1.89 mm    | 0.0744 in. |
|                                                          |                               | 1.05 mm    | 0.0413 in. |
|                                                          |                               | 1.10 mm    | 0.0433 in. |
|                                                          |                               | 1.15 mm    | 0.0453 in. |
|                                                          |                               | 1.20 mm    | 0.0472 in. |
|                                                          |                               | 1.25 mm    | 0.0492 in. |
|                                                          |                               | 1.30 mm    | 0.0512 in. |
|                                                          |                               | 1.35 mm    | 0.0531 in. |
|                                                          |                               | 1.40 mm    | 0.0551 in. |
| Drive pinion cage adjustment shim thickness              | 1.45 mm                       | 0.0571 in. |            |
|                                                          | 1.50 mm                       | 0.0591 in. |            |
|                                                          | 1.55 mm                       | 0.0610 in. |            |
|                                                          | 0.10 mm                       | 0.0039 in. |            |
|                                                          | 0.15 mm                       | 0.0059 in. |            |
|                                                          | 0.25 mm                       | 0.0098 in. |            |
|                                                          | 0.45 mm                       | 0.0177 in. |            |

## Tightening Torque

|                          | Tightening part                          |                                    | kg        | ft-lb     | N·m     |
|--------------------------|------------------------------------------|------------------------------------|-----------|-----------|---------|
| Differential             | Companion flange x Propeller shaft       |                                    | 0         | 65        | 88      |
|                          | Ring gear x Differential case            | 10.5 in.                           | 1.0       | 119       | 162     |
|                          |                                          | 12 in.                             | 3.0       | 224       | 304     |
|                          | Differential case x Case cover           | 10.5 in.                           | 0         | 58        | 78      |
|                          |                                          | 12 in.                             | 1.0       | 72        | 98      |
|                          | Companion flange x Drive pinion          | 10.5 in.                           | 3.0       | 224       | 304     |
|                          |                                          | 12 in.                             | 2.0       | 199       | 270     |
|                          | Side bearing cap x Differential carrier  |                                    | 2.0       | 145       | 196     |
|                          | Drive pinion cage x Differential carrier | 12 in.                             | 1.0       | 76        | 103     |
|                          | Adjusting nut lock set bolt              | 10.5 in.                           | 0         | 9         | 13      |
|                          |                                          | 12 in.                             | 0         | 10        | 14      |
|                          | Differential carrier x Axle housing      |                                    | 0         | 36        | 52      |
|                          | Filler plug                              |                                    | 0         | 36        | 49      |
|                          | Drain plug                               |                                    | 0         | 36        | 49      |
| Rear axle and suspension | Rear axle shaft x Axle hub               | BU, YU, RU series                  | 0         | 44        | 60      |
|                          |                                          | WU series                          | 1.0       | 80        | 108     |
|                          | Hub bolt x Axle hub                      |                                    | 4.0       | 289       | 392     |
|                          | Brake drum x Axle hub                    | WU series                          | 2.0       | 148       | 201     |
|                          | Double wheel stop bolt                   | Just low                           | 3.0       | 271       | 368     |
|                          |                                          | Others                             | 5.0       | 380       | 515     |
|                          | Hub nut                                  | Single tire and just low           | 3.0       | 271       | 368     |
|                          |                                          | Others                             | 5.0       | 380       | 515     |
|                          | Bearing lock nut plate set screw bolt    | BU, YU, RU series                  | 5         | 48 in.-lb | 5.4     |
|                          |                                          | WU series                          | 0         | 18        | 25      |
|                          | Bearing lock nut                         | BU, YU, RU series                  | 550 - 600 | 40 - 43   | 54 - 58 |
|                          |                                          | WU series                          | 700 - 750 | 51 - 54   | 69 - 73 |
|                          | Shock Absorber                           |                                    |           |           |         |
|                          | Upper side                               | Regular cab                        | 0         | 26        | 35      |
|                          |                                          | Others                             |           | 48        | 66      |
|                          |                                          | Wide cab                           |           | 26        | 35      |
|                          | Lower side                               | Regular cab                        | 0         | 26        | 35      |
|                          |                                          | Long deck, dump (BU only) and BU62 |           | 48        | 66      |
|                          |                                          | Others                             |           | 26        | 35      |
|                          | Shackle x Rear hanger                    |                                    | 2.0       | 163       | 221     |
|                          | Shackle x Leaf spring                    |                                    | 2.0       | 163       | 221     |
|                          | Leaf spring x Front hanger               | BU, YU, RU series                  | 2.0       | 163       | 221     |
|                          | U-bolt nut                               | BU, YU, RU series                  | 1.0       | 110       | 149     |
|                          |                                          | WU series                          | 2.0       | 177       | 240     |
|                          | Lock pin set nut                         | WU series                          | 5         | 27        | 37      |

**BRAKE SYSTEM****Specifications**

|                       |                                                                    |             |                            |                     |
|-----------------------|--------------------------------------------------------------------|-------------|----------------------------|---------------------|
| Brake pedal           | Pedal height                                                       | Regular cab | 203 mm                     | 7.992 in.           |
|                       |                                                                    | Wide cab    | 195 mm                     | 7.815 in.           |
|                       | Pedal freeplay                                                     |             | 3 mm                       | 0.12 – 0.24 in.     |
|                       | Pedal reserve distance<br>at 50 kg (110.2 lb, 490 N)               |             | More than 60 mm (2.36 in.) |                     |
| Brake Booster         | Booster push rod to piston clearance<br>at idling vacuum<br>w/ SST |             | 0.2 – 0.50 mm              | 0.0098 – 0.0197 in. |
| Front brake<br>(Drum) | Drum inside diameter                                               |             |                            |                     |
|                       | Single tire and just low                                           | STD         | 293 mm                     | 11.61 in.           |
|                       |                                                                    | Limit       | 295 mm                     | 11.69 in.           |
|                       | Double tire                                                        | STD         | 323 mm                     | 12.60 in.           |
|                       |                                                                    | Limit       | 325 mm                     | 12.68 in.           |
|                       | Lining thickness                                                   |             |                            |                     |
|                       | BU, RU, YU                                                         | STD         | 6.5 mm                     | 0.256 in.           |
|                       |                                                                    | Limit       | 1.5 mm                     | 0.059 in.           |
|                       | WU                                                                 | STD         | 8.0 mm                     | 0.315 in.           |
|                       |                                                                    | Limit       | 4.2 mm                     | 0.165 in.           |
| Front brake<br>(Disc) | Rotor disc thickness                                               | STD         | 30 mm                      | 1.181 in.           |
|                       |                                                                    | Limit       | 29 mm                      | 1.142 in.           |
|                       | Rotor disc runout                                                  | Limit       | 0.1 mm                     | 0.0059 in.          |
|                       | Pad thickness                                                      | STD         | 12 mm                      | 0.472 in.           |
|                       | Limit                                                              | 1 mm        | 0.039 in.                  |                     |
| Rear brake<br>(Drum)  | Drum inside diameter                                               |             |                            |                     |
|                       | Just low                                                           | STD         | 263 mm                     | 10.24 in.           |
|                       |                                                                    | Limit       | 265 mm                     | 10.31 in.           |
|                       | Single tire                                                        | STD         | 293 mm                     | 11.61 in.           |
|                       |                                                                    | Limit       | 295 mm                     | 11.69 in.           |
|                       | Double tire                                                        | STD         | 323 mm                     | 12.60 in.           |
|                       |                                                                    | Limit       | 325 mm                     | 12.68 in.           |
|                       | Lining thickness                                                   |             |                            |                     |
|                       | BU, RU, YU                                                         | STD         | 6.5 mm                     | 0.256 in.           |
|                       |                                                                    | Limit       | 1.5 mm                     | 0.059 in.           |
| WU                    | STD                                                                | 8.0 mm      | 0.315 in.                  |                     |
|                       | Limit                                                              | 4.2 mm      | 0.165 in.                  |                     |
| Parking brake         | Drum inside diameter                                               |             |                            |                     |
|                       | 6.3 in. type                                                       | STD         | 160 mm                     | 6.299 in.           |
|                       |                                                                    | Limit       | 161 mm                     | 6.339 in.           |
|                       | 7.0 in. type                                                       | STD         | 177 mm                     | 7.000 in.           |
|                       |                                                                    | Limit       | 178 mm                     | 7.039 in.           |
|                       | Lining thickness                                                   |             |                            |                     |
|                       | 6.3 in. type                                                       | STD         | 4.0 mm                     | 0.157 in.           |
|                       |                                                                    | Limit       | 1.5 mm                     | 0.059 in.           |
|                       | 7.0 in. type                                                       | STD         | 3.6 mm                     | 0.142 in.           |
|                       |                                                                    | Limit       | 1.5 mm                     | 0.059 in.           |
|                       | Lever travel at 25 kg (55 lb, 245 N)                               | 6 –         | clicks                     |                     |
| Exhaust<br>retarder   | Valve body clearance                                               | 0.1 mm      | 0.004 – 0.016 in.          |                     |
|                       | Opening angle                                                      | 90°         |                            |                     |

## Tightening Torque

| Tightening part                                     |                          | cm   | ft-lb     | N·m |
|-----------------------------------------------------|--------------------------|------|-----------|-----|
| Brake tube union nut                                | M10                      | 55   | 11        | 15  |
|                                                     | M12                      | 45   | 18        | 24  |
| Bleeder plug                                        |                          | 10   | 8         | 11  |
| Brake pedal x Bracket                               |                          | 15   | 23        | 31  |
| Master cylinder x Piston stopper bolt               |                          | 100  | 7         | 10  |
| Master cylinder x Outlet plug                       |                          | 85   | 50        | 67  |
| Master cylinder x Reservoir union bolt              |                          | 50   | 40        | 54  |
| Master cylinder x Brake booster                     |                          | 30   | 9         | 13  |
| Master cylinder x Clevis lock nut                   |                          | 60   | 19        | 25  |
| Brake booster x Pedal bracket                       |                          | 30   | 9         | 13  |
| Brake booster x Spacer                              |                          | 30   | 9         | 13  |
| Vacuum pump x Check valve                           | B series, 1W w/12 V E/G  | 50   | 54        | 74  |
|                                                     | 1W w/24 V E/G            | 25   | 24        | 32  |
| Vacuum pump x Vacuum hose union bolt                |                          | 40   | 10        | 14  |
| Vacuum pump x Oil outlet union bolt (1W w/24 V E/G) |                          | 25   | 24        | 32  |
| Vacuum pump x Oil inlet union bolt (1W w/24 V E/G)  |                          | 25   | 16        | 22  |
| Vacuum pump x Alternator                            |                          | 80   | 69 in.-lb | 7.8 |
| Front Drum Brake                                    |                          |      |           |     |
| Drum x Axle hub (Double tire)                       |                          | 475  | 107       | 145 |
| Wheel cylinder x Backing plate                      | Single tire and just low | 250  | 18        | 25  |
|                                                     | Double tire              | 520  | 45        | 61  |
| Backing plate x Axle hub                            | BU, RU, YU series        | 300  | 94        | 127 |
|                                                     | WU series                | 350  | 134       | 181 |
| Front Disc Brake                                    |                          |      |           |     |
| Disc caliper x Torque plate                         | Outer side               | 60   | 12        | 16  |
|                                                     | Inner side               | 600  | 43        | 59  |
| Torque plate x Axle hub                             |                          | 300  | 94        | 127 |
| Disc caliper x Brake hose union bolt                |                          | 310  | 22        | 30  |
| Rear Drum Brake                                     |                          |      |           |     |
| Drum x Axle hub                                     | WU series                | 550  | 148       | 201 |
|                                                     | Just low                 | 250  | 90        | 123 |
|                                                     | Others                   | 1000 | 289       | 392 |
| Wheel cylinder x Backing plate                      | Single tire              | 250  | 18        | 25  |
|                                                     | Double tire              | 520  | 45        | 61  |
| Backing plate x Axle hub                            | BU, RU, YU series        | 300  | 58        | 78  |
|                                                     | WU series                | 350  | 134       | 181 |
| Parking brake drum lock nut                         |                          | 300  | 94        | 127 |
| Parking brake backing plate                         |                          | 475  | 34        | 47  |
| DSPV x Frame                                        |                          | 130  | 9         | 13  |
| LSPV x Bracket                                      |                          | 130  | 9         | 13  |
| LSPV bracket x Frame                                |                          | 130  | 9         | 13  |
| Exhaust Retarder                                    |                          |      |           |     |
| Valve body x Valve cover                            |                          | 130  | 9         | 13  |
| Valve body x Bracket                                |                          | 130  | 9         | 13  |
| Valve shaft x Valve lever                           |                          | 55   | 48 in.-lb | 5.4 |
| Bracket x Vacuum cylinder                           |                          | 130  | 9         | 13  |
| Link cover x Bracket                                |                          | 55   | 48 in.-lb | 5.4 |
| Exhaust retarder x Exhaust pipe                     |                          | 195  | 14        | 19  |

## STEERING

### Specifications

| Steering              | Steering wheel freeplay                                                           | Limit       | 40 mm                                                       | 1.57 in.                 |
|-----------------------|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------------------|--------------------------|
| Steering main shaft   | Spider axial play<br>Snap ring thickness                                          | Less        | 0.05 mm (0.0020 in.)                                        |                          |
|                       |                                                                                   | 1.20        | 0.0472 in.                                                  |                          |
|                       |                                                                                   | 1.25        | 0.0492 in.                                                  |                          |
|                       |                                                                                   | 1.30        | 0.0512 in.                                                  |                          |
| Steering gear housing | Gear housing oil level                                                            | Regular Cab | 0 – 4 mm                                                    | 0 – 0.39 in. from top    |
|                       |                                                                                   | Wide Cab    | 14 – mm                                                     | 0.55 – 0.67 in. from top |
|                       | Sector shaft thrust clearance                                                     | Limit       | 0.1 mm                                                      | 0.004 in.                |
|                       | Sector shaft thrust washer thickness                                              |             | 1.95                                                        | 0.0768 in.               |
|                       |                                                                                   |             | 2.00                                                        | 0.0787 in.               |
|                       |                                                                                   |             | 2.05                                                        | 0.0807 in.               |
|                       |                                                                                   |             |                                                             |                          |
|                       | Sector shaft outer diameter                                                       | STD         | 35.92 ± 0.05 mm                                             | 1.4160 – 1.4170 in.      |
|                       |                                                                                   | Limit       | 35.94 mm                                                    | 1.4150 in.               |
|                       | Gear housing bushings inner diameter                                              | STD         | 36.02 ± 0.05 mm                                             | 1.4173 – 1.4183 in.      |
|                       | Sector shaft oil clearance                                                        | STD         | 0.005 mm                                                    | 0.0004 – 0.0023 in.      |
|                       |                                                                                   | Limit       | 0.2 mm                                                      | 0.0079 in.               |
|                       | End cover oil clearance                                                           | Limit       | 0.2 mm                                                      | 0.0079 in.               |
|                       | Worm bearing preload (at starting)                                                |             | 4.0 – 5 kg-cm                                               |                          |
|                       |                                                                                   |             | 3.5 – 4 in.-lb                                              | 0.4 – 0.6 N·m            |
|                       | Gear housing end cover shim thickness                                             |             | 0.05                                                        | 0.0020 in.               |
|                       |                                                                                   |             | 0.06                                                        | 0.0024 in.               |
|                       |                                                                                   |             | 0.07                                                        | 0.0028 in.               |
|                       |                                                                                   |             | 0.10                                                        | 0.0039 in.               |
|                       |                                                                                   |             | 0.20                                                        | 0.0079 in.               |
|                       |                                                                                   |             | 0.50                                                        | 0.0197 in.               |
|                       | Total preload (at starting)                                                       | Regular Cab | 6 – 8 kg-cm                                                 |                          |
|                       |                                                                                   |             | 5.2 – 6 in.-lb                                              | 0.6 – 0.9 N·m            |
|                       | Wide Cab                                                                          |             | 8 – 10 kg-cm                                                |                          |
|                       |                                                                                   |             | 6.9 – 8 in.-lb                                              | 0.8 – 1.1 N·m            |
| Power steering        | Drive belt deflection at 10 kg (22.0 lb, 98 N) (RU series only)                   | New belt    | 4.8 – 6 mm                                                  | 0.189 – 0.236 in.        |
|                       |                                                                                   | Used belt   | 6.0 – 7 mm                                                  | 0.236 – 0.315 in.        |
|                       | Drive belt tension (Reference) w/SST 09216-00020 and 09216-00030 (RU series only) | New belt    | 40 – kg                                                     |                          |
|                       |                                                                                   | Used belt   | 20 – kg                                                     |                          |
|                       | Maximum rise of oil level                                                         |             | Below 1 mm (0.20 in.)                                       |                          |
|                       | Oil pressure (at idle speed)                                                      | BU series   | More than 58 kg/cm <sup>2</sup> (825 psi, 5,688 kPa)        |                          |
|                       |                                                                                   | Regular Cab | 70 ± 5 kg/cm <sup>2</sup> (996 ± 71 psi, 6,865 ± 490 kPa)   |                          |
|                       | RU series                                                                         | Wide Cab    | 70 ± 5 kg/cm <sup>2</sup> (996 ± 71 psi, 6,865 ± 490 kPa)   |                          |
|                       |                                                                                   |             | 75 ± 5 kg/cm <sup>2</sup> (1,063 ± 71 psi, 7,355 ± 490 kPa) |                          |
|                       | WU series                                                                         |             | 75 ± 5 kg/cm <sup>2</sup> (1,063 ± 71 psi, 7,355 ± 490 kPa) |                          |
|                       | Steering effort (at steering wheel)                                               |             | Less than 9.0 kg (19.8 lb, 88 N)                            |                          |

## Specifications (Cont'd)

|                            |                                                   |                             |                                     |                      |
|----------------------------|---------------------------------------------------|-----------------------------|-------------------------------------|----------------------|
| Power steering<br>(Cont'd) | Flow control spring length                        | STD                         | 55 mm                               | 2.165 in.            |
|                            |                                                   | Limit                       | 50 mm                               | 1.969 in.            |
|                            | Pump rotating torque                              |                             | Less than 2 kg-c                    | 1.7 in.-lb, 0.2 N·m) |
|                            | Ball clearance                                    | Limit                       | 0.05 mm                             | 0.0020 in.           |
|                            | Sector shaft adjusting screw end play             |                             | Less than 0.15 mm                   | 0.0059 in.)          |
|                            | Worm shaft preload (at starting)                  |                             | 7 – 14 kg-cm                        |                      |
| Steering linkage           |                                                   |                             | 6.1 – 12.2 in.-lb                   | 0.7 – 1.4 N·m        |
|                            | Worm shaft total preload<br>(at neutral position) |                             | 8 – 17 kg-cm                        |                      |
|                            |                                                   |                             | 6.9 – 14.8 in.-lb                   | 0.8 – 1.7 N·m        |
|                            | Tie rod ball joint rotation condition             |                             |                                     |                      |
|                            | Regular Cab                                       |                             | 16 – 75 kg-cm<br>13.9 – 65.1 in.-lb | 1.6 – 7.4 N·m        |
|                            | Wide Cab                                          |                             | 40 – 80 kg-cm<br>34.7 – 69.4 in.-lb | 3.9 – 7.8 N·m        |
|                            | Tie rod length                                    | Regular Cab                 | 1,158 ± 2 mm                        | 45.59 ± 0.08 in.     |
|                            |                                                   | Wide Cab<br>(Ex. WU series) | 1,384 ± 2 mm                        | 54.49 ± 0.08 in.     |
|                            |                                                   | WU series                   | 1,420 mm                            | 55.91 in.            |

## Tightening Torque

|                          | Tightening part                               | kg-cm | ft-lb     | N·m |
|--------------------------|-----------------------------------------------|-------|-----------|-----|
| Steering main<br>shaft   | Upper bracket x Column tube                   | 75    | 65 in.-lb | 7.4 |
|                          | Column hole cover x Column tube<br>(Wide Cab) | 185   | 13        | 18  |
|                          | Column hole cover x Body                      | 50    | 43 in.-lb | 4.9 |
|                          | Column bracket mounting bolts                 | 115   | 8         | 11  |
|                          | Column tube support clamp bolt<br>(Wide Cab)  | 250   | 18        | 25  |
|                          | Column tube lock nuts (Regular Cab)           | 200   | 14        | 20  |
|                          | Steering wheel x Steering main shaft          | 350   | 25        | 34  |
|                          | Worm yoke x Steering worm shaft               |       |           |     |
|                          | Regular Cab                                   | 360   | 26        | 35  |
|                          | Wide Cab                                      | 375   | 27        | 37  |
| Steering gear<br>housing | Gear housing end cover x Gear housing         | 500   | 36        | 49  |
|                          | Sector shaft end cover x Gear housing         | 500   | 36        | 49  |
|                          | Sector shaft adjusting screw lock nut         | 350   | 25        | 34  |
|                          | Gear housing x Frame                          | 1,710 | 124       | 168 |
|                          | Pitman arm x Sector shaft                     | 2,500 | 181       | 245 |

**Tightening Torque (Cont'd)**

|                  | Tightening part                                        | kg-m | ft-lb     | N-m |
|------------------|--------------------------------------------------------|------|-----------|-----|
| Power steering   | Flow control valve plug x PS pump housing              | 6    | 47        | 64  |
|                  | Front housing x Rear housing                           | 3    | 27        | 37  |
|                  | PS pump gear nut (BU, WU series)                       | 7    | 54        | 74  |
|                  | PS pump pulley nut (RU series)                         | 7    | 51        | 69  |
|                  | PS pump x Bracket (RU series)                          | 3    | 27        | 37  |
|                  | Return line union bolt x PS pump housing (RU series)   | 1,4  | 107       | 145 |
|                  | Pressure line union bolt x PS pump housing (RU series) | 5    | 42        | 56  |
|                  | Drive pulley set bolts (RU series)                     | 1    | 13        | 18  |
|                  | Return line union x PS pump housing (BU series)        | 8    | 69 in.-lb | 7.8 |
|                  | PS pump mounting bolts (BU series)                     | 2    | 14        | 20  |
|                  | Pressure line union bolt x PS pump housing (BU series) | 5    | 42        | 56  |
|                  | Pressure line union nut x PS pump housing (WU series)  | 8    | 59        | 80  |
|                  | PS pump mounting bolts (WU series)                     | 4    | 34        | 47  |
|                  | Return line union bolt x PS pump housing (WU series)   | 1,4  | 107       | 145 |
|                  | Pressure line union bolt x Union nut (WU series)       | 4    | 31        | 43  |
|                  | Gear housing end cover x Gear housing                  | 4    | 31        | 42  |
|                  | Sector shaft end cover x Gear housing                  | 6    | 45        | 61  |
|                  | Sector shaft adjusting screw lock nut                  | 1,0  | 72        | 98  |
|                  | Pitman arm x Sector shaft                              | 3,5  | 253       | 343 |
|                  | Pressure line union bolt x Gear housing                | 4    | 31        | 43  |
|                  | Return line union bolt x Gear housing                  | 4    | 31        | 43  |
| Steering linkage | Tie rod end mounting nuts                              |      |           |     |
|                  | Regular Cab                                            | 1,5  | 112       | 152 |
|                  | Wide Cab (Ex. BU85)                                    | 2,0  | 145       | 196 |
|                  | BU85 series                                            | 9    | 69        | 93  |
|                  | Tie rod end clamp bolts                                |      |           |     |
|                  | Regular Cab and BU85 series                            | 3    | 27        | 37  |
|                  | Wide Cab (Ex. BU85 series)                             | 7    | 55        | 75  |
|                  | Knuckle arm x Steering knuckle                         |      |           |     |
|                  | BU 90-95, WU series                                    | 7,0  | 506       | 686 |
|                  | Ex. BU 90-95, WU series                                | 4,0  | 289       | 392 |

**DUMP MECHANISM****Specifications**

|                             |          |               |
|-----------------------------|----------|---------------|
| Raise fully time            | about 16 | 0 seconds     |
| Lower fully time            | about 9  | 4 seconds     |
| Rear deck raised angle      | about 60 |               |
| Tail gate lock link length  |          |               |
| Rear deck at lower position | about 66 | m (26.10 in.) |
| Rear deck at Raise position | about 65 | m (25.71 in.) |
| Standard length difference  | about 1  | m (0.39 in.)  |

**Tightening Torque**

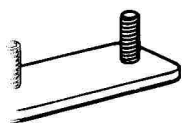
| Tightening parts                     | kg-cm | ft-lb | N-m |
|--------------------------------------|-------|-------|-----|
| P.T.O x Oil pump                     | 400   | 29    | 39  |
| P.T.O x Bearing cover                | 130   | 9     | 13  |
| Oil pump x Power control valve       | 330   | 24    | 32  |
| Power control valve x Hose connector | 1,000 | 72    | 98  |
| Suction hose                         | 1,250 | 90    | 123 |
| Delivery hose                        | 1,250 | 90    | 123 |
| P.T.O Assembly x Transmission        | 380   | 27    | 37  |
| Hoist x Trunnion                     | 380   | 27    | 37  |
| Hoist filler plug                    | 850   | 61    | 83  |
| Hoist air bleeder plug               | 200   | 14    | 20  |
| Hoist cylinder x Cylinder head       | 125   | 9     | 12  |
| Piston lock nut x Piston rod         | 1,450 | 105   | 142 |
| Flow control valve x Hoist cylinder  | 950   | 69    | 93  |
| Cross head pin lock bolt             | 175   | 13    | 17  |
| Lift arm bracket x Rear deck         | 570   | 41    | 56  |
| Lift arm x Tension arm               | 1,200 | 87    | 118 |
| Tension arm shaft bracket x Frame    | 1,000 | 72    | 98  |
| Trunnion bracket x Frame             | 2,800 | 203   | 275 |

**BODY****Tightening Torque**

| Tightening part                            |                | m | ft-lb     | N·m |
|--------------------------------------------|----------------|---|-----------|-----|
| Cab rear mounting hook x Bracket           |                |   | 62        | 84  |
| Cab rear mounting hook bracket x Frame     |                |   | 51        | 69  |
| Cab front mounting bracket x Frame         |                |   | 67        | 91  |
| Cab front mounting x Bracket               |                |   | 27        | 37  |
| Tilt cab stay x Cab body                   |                |   | 14        | 20  |
| Tilt cab coil spring x Lower bracket       |                |   | 9         | 12  |
| Tilt cab coil spring x Cab body            |                |   | 9         | 12  |
| Cab rear mounting lock assembly x Cab body | 8 mm bolt      |   | 13        | 18  |
|                                            | 10 mm bolt     |   | 27        | 37  |
| Front bumper x Frame                       |                |   | 17        | 24  |
| Seat mounting bolt                         |                |   | 14        | 19  |
| Head rest set bolt                         |                |   | 14        | 19  |
| Seat back lock set bolt                    | Front seat     |   | 14        | 19  |
| Seat back x Body                           | Double cab     |   | 69 in.-lb | 7.8 |
| Seat back x Seat cushion                   | Bus (Standard) |   | 14        | 19  |
| Seat cushion frame x Seat cushion          | Bus            |   | 48 in.-lb | 5.4 |
|                                            | (Combination)  |   |           |     |
| Fuel tank band set nut                     | 60 liters      |   | 7         | 10  |
|                                            | Others         |   | 9         | 13  |
| Fuel tank suction tube                     |                |   | 13 in.-lb | 1.5 |
| Fuel sender gauge                          |                |   | 13 in.-lb | 1.5 |
| Fuel tank hole cover                       |                |   | 13 in.-lb | 1.5 |
| Fuel change union                          |                |   | 22        | 29  |
| Drain plug                                 |                |   | 56 in.-lb | 6.4 |

# STANDARD BOLT TIGHTENING TORQUE

## HOW TO DETERMINE BOLT STRENGTH

|                                           | Mark                                                                                                                 | Class                |             | Mark                                                                                        | Class |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------|-------------|---------------------------------------------------------------------------------------------|-------|
| Hexagon head bolt                         |  Bolt head No. 4-<br>5-<br>6-<br>7- | 4T<br>5T<br>6T<br>7T | Stud bolt   |  No mark | 4T    |
|                                           |  No mark                            | 4T                   |             |  Grooved | 6T    |
| Hexagon flange bolt w/washer hexagon bolt |  No mark                            | 4T                   |             |                                                                                             |       |
| Hexagon head bolt                         |  Two protruding lines               | 5T                   | Welded bolt |        | 4T    |
| Hexagon flange bolt w/washer hexagon bolt |  Two protruding lines             | 6T                   |             |                                                                                             |       |
| Hexagon head bolt                         |  Three protruding lines           | 7T                   |             |                                                                                             |       |

## LUBRICANTS

| Item                       | Capacity |        |             |      | Classification                |
|----------------------------|----------|--------|-------------|------|-------------------------------|
|                            | Liters   | US qts | Imp. qts    |      |                               |
| Manual transmission oil    |          |        |             |      |                               |
| M52                        | 3.0      | 3.2    | 2.6         | API  | GL-5, SAE 90                  |
| H50                        | 4.0      | 4.2    | 3.5         |      |                               |
| Differential oil           |          |        |             |      |                               |
| 10.5 in.                   | 3.8      | 4.0    | 3.3         | API  | hypoid gear oil               |
|                            |          |        |             | Abol | -18°C (0°F)                   |
|                            |          |        |             | S    | 0                             |
| 12 in.                     | 5.0      | 5.3    | 4.4         | Belc | -18°C (0°F)                   |
|                            |          |        |             | S    | 0 or 80W-90                   |
| Steering gear box oil      |          |        |             | API  | GL-5, SAE 90                  |
| Regular cab                | 690 cc   |        | 42.1 cu in. |      |                               |
| Wide cab                   | 860 cc   |        | 52.5 cu in. |      |                               |
| Power steering fluid       |          |        |             | ATF  | DEXRON or DEXRON II           |
| Reservoir                  | 400 cc   |        | 24.4 cu in. |      |                               |
| Total                      | 1,200 cc |        | 73.2 cu in. |      |                               |
| Steering knuckle grease    |          |        |             |      |                               |
| Drag link grease           |          |        |             |      |                               |
| Tie rod end grease         |          | —      |             | Mol  | monosulphide lithium base,    |
| Sliding yoke grease        |          |        |             | NLC  | 2                             |
| Rear spring shackle grease |          |        |             |      |                               |
| Wheel bearing grease       |          |        |             |      |                               |
| Propeller shaft grease     |          | —      |             | Lith | base multipurpose, NLGI No. 2 |
| Dump mechanism grease      |          |        |             |      |                               |
| Brake fluid                |          | —      |             | SAE  | DOT 3 or DOT 3                |
| Dump Oil                   | 8.8      | 9.3    | 7.7         | Hyc  | oil                           |
|                            |          |        |             | ISO  | 32                            |