

# Power Steering

## Symptom Troubleshooting

### Hard Steering

1. Check the power assist (see page 17-7).

*K20A3 Engine model:*

*Is the starting load more than 37.2 N (3.8 kgf, 8.4 lbf)?*

*K20A2 Engine model:*

*Is the starting load more than 38.2 N (3.9 kgf, 8.6 lbf)?*

**YES**—Go to step 2.

**NO**—Power assist is OK. ■

2. Measure steady-state fluid pressure from the pump at idle with T/N 07406-0010001 (see page 17-9), or T/N 07406-001000A (see page 17-10).

*Is the pressure 1,500 kPa (15 kgf/cm<sup>2</sup>, 213 psi) or less?*

**YES**—Go to step 3.

**NO**—Go to step 7.

3. Measure the pump relief pressure at idle with T/N 07406-0010001 (see page 17-9), or T/N 07406-001000A (see page 17-10).

*K20A3 Engine model:*

*Is the pressure 6,570—7,260 kPa(67—74 kgf/cm<sup>2</sup>, 950—1,050 psi) or less?*

*K20A2 Engine model:*

*Is the pressure 7,160—7,850 kPa(73—80 kgf/cm<sup>2</sup>, 1,040—1,140 psi) or less?*

**YES**—Go to step 4.

**NO**—Faulty pump assembly. ■

4. With a spring scale, measure the power assist in both directions, to the left and to the right.

*Are the two measurements within 2.9 N (0.3 kgf, 0.66 lbf) of each other?*

**YES**—Go to step 5.

**NO**—Go to step 8.

5. Measure the fluid pressure with both pressure gauge valves open (if so equipped), while turning the steering wheel fully to the left and fully to the right.

*K20A3 Engine model:*

*Is the pressure 6,570—7,260 kPa(67—74 kgf/cm<sup>2</sup>, 950—1,050 psi) or less?*

*K20A2 Engine model:*

*Is the pressure 7,160—7,850 kPa(73—80 kgf/cm<sup>2</sup>, 1,040—1,140 psi) or less?*

**YES**—Go to step 6.

**NO**—Faulty gearbox. ■

6. Adjust the rack guide (see page 17-30) and retest.

*Is the steering OK?*

**YES**—Repair is completed. ■

**NO**—Faulty gearbox. ■

7. Check the feed and return lines between the pump and the gearbox for clogging and deformation.

*Are the lines clogged or deformed?*

**YES**—Repair or replace the lines. ■

**NO**—Faulty valve body unit or pump. ■

8. Check the cylinder lines for deformation (see page 17-11).

*Are the lines deformed?*

**YES**—Replace the lines. ■

**NO**—Go to step 9.

9. Check for a bent rack shaft or misadjusted rack guide (too tight).

*Is the rack shaft bent or the rack guide adjusted too tight?*

**YES**—Replace the rack shaft or readjust the rack guide. ■

**NO**—Faulty valve body unit. ■