SEBM006307

SHOP MANUAL

KOMATSU®

avance LOADER

WA470-3

MACHINE MODEL

WA470-3

SERIAL NUMBER

50001 and up

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

- WA470-3 mount the S6D125 engine.
  For details of the engine, see the 125 Series Engine Shop Manual.

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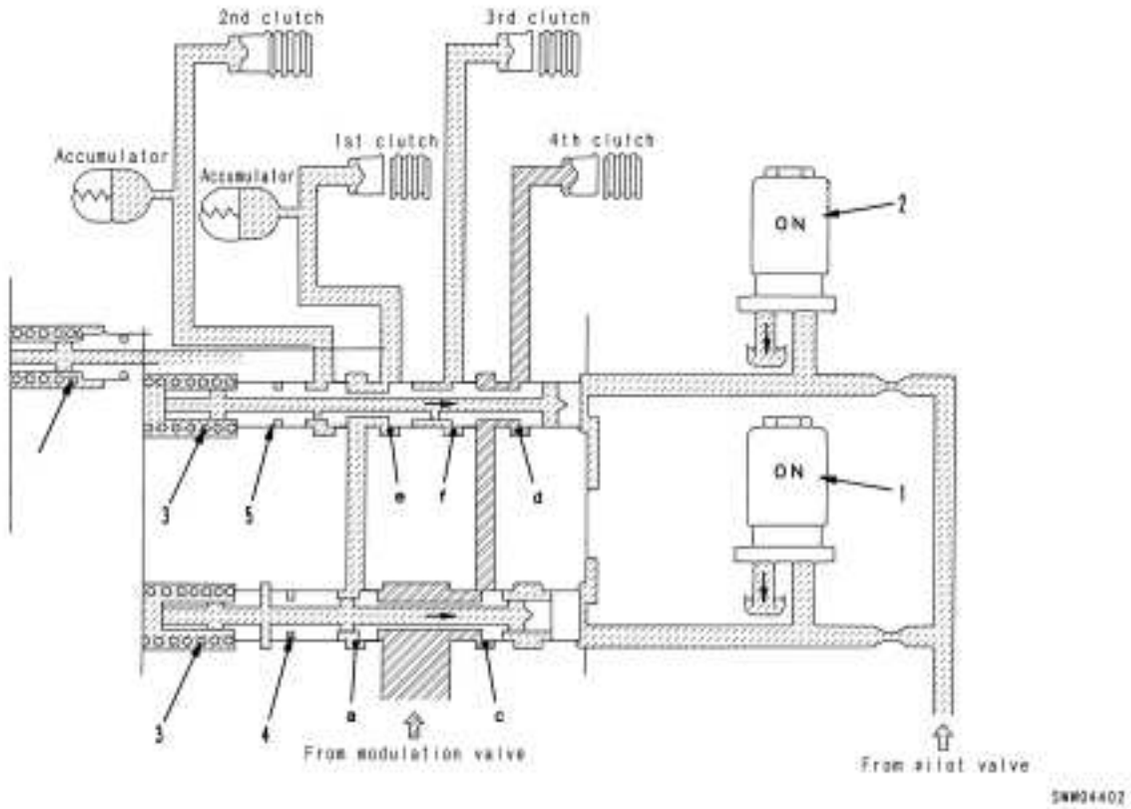
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2. 4th speed

- When solenoid valves (1) and (2) are **ON**, the drain port is open. The oil from the pilot circuit passes through solenoid valves (1) and (2) and is drained, so H-L selector spool (4) and range selector spool (5) are moved to the right by the force of springs (3). The oil in the clutch circuit passes from H-L selector spool (4) port **c** through range selector spool (5) port **d** and is supplied to the 4th clutch.

3. 1st and 3rd speeds

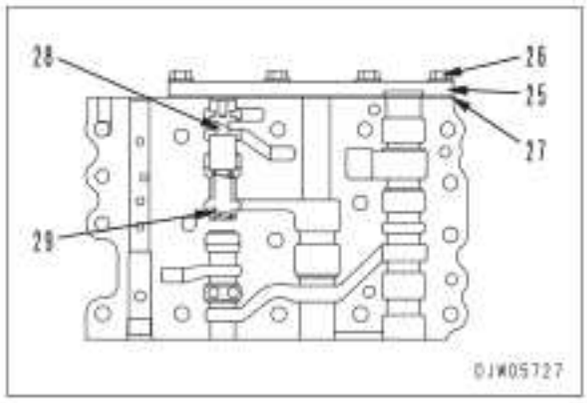
- For the 1st speed, solenoid valve (1) is **OFF**, solenoid valve (2) is **ON**, and the oil in the clutch circuit passes from H-L selector spool (4) port **a** through range selector spool (5) port **e** and is supplied to the 1st clutch.
- For the 3rd speed, solenoid valve (1) is **ON**, solenoid valve (2) is **OFF**, and the oil in the clutch circuit passes from H-L selector spool (4) port **c** through range selector spool (5) port **f** and is supplied to the 3rd clutch.

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3. **Assembly of upper valve assembly (For electronic modulation)**
   1) Pilot valve
      i) Install pilot valve (28) and pilot spring (29) to the valve body.
      ★ Free height of spring (29): 60 mm

      Periphery of pilot valve spool: **Apply oil (EO10-CD)**
      ii) Fit gasket (27) and set upper R-cover (25) and tighten mounting bolts (26).
      ★ Use a new gasket.

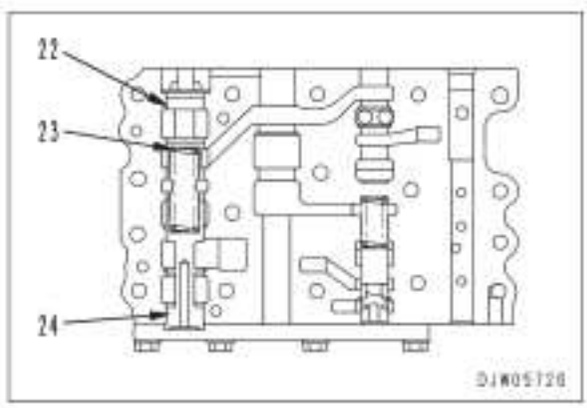
      Upper R-cover mounting bolt: **31.4 ± 2.9 Nm (3.2 ± 0.3 kgm)**



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   2) Torque converter outlet valve
      Install torque converter outlet valve (24), torque converter outlet spring (23), and dummy spool (22) to the valve body.
      ★ Free height of spring: 65 mm (23)

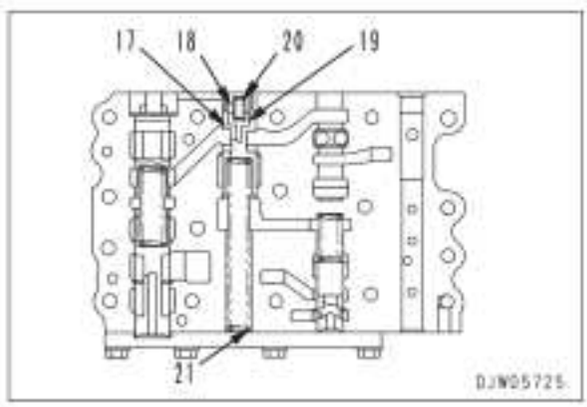
      Periphery of torque converter outlet valve spool and dummy spool: **Apply oil (EO10-CD)**



   3) Main relief valve
      i) Install main valve spring (21).
      ii) Install valves (18) and (19) and spring (20) to main relief valve (17) and then install main relief valve (17) to the valve body.
      ★ Free height of spring (20): 26 mm
      ★ Free height of spring (21): 171 mm

      Periphery of valves (18) and (19): **Apply oil (EO10-CD)**

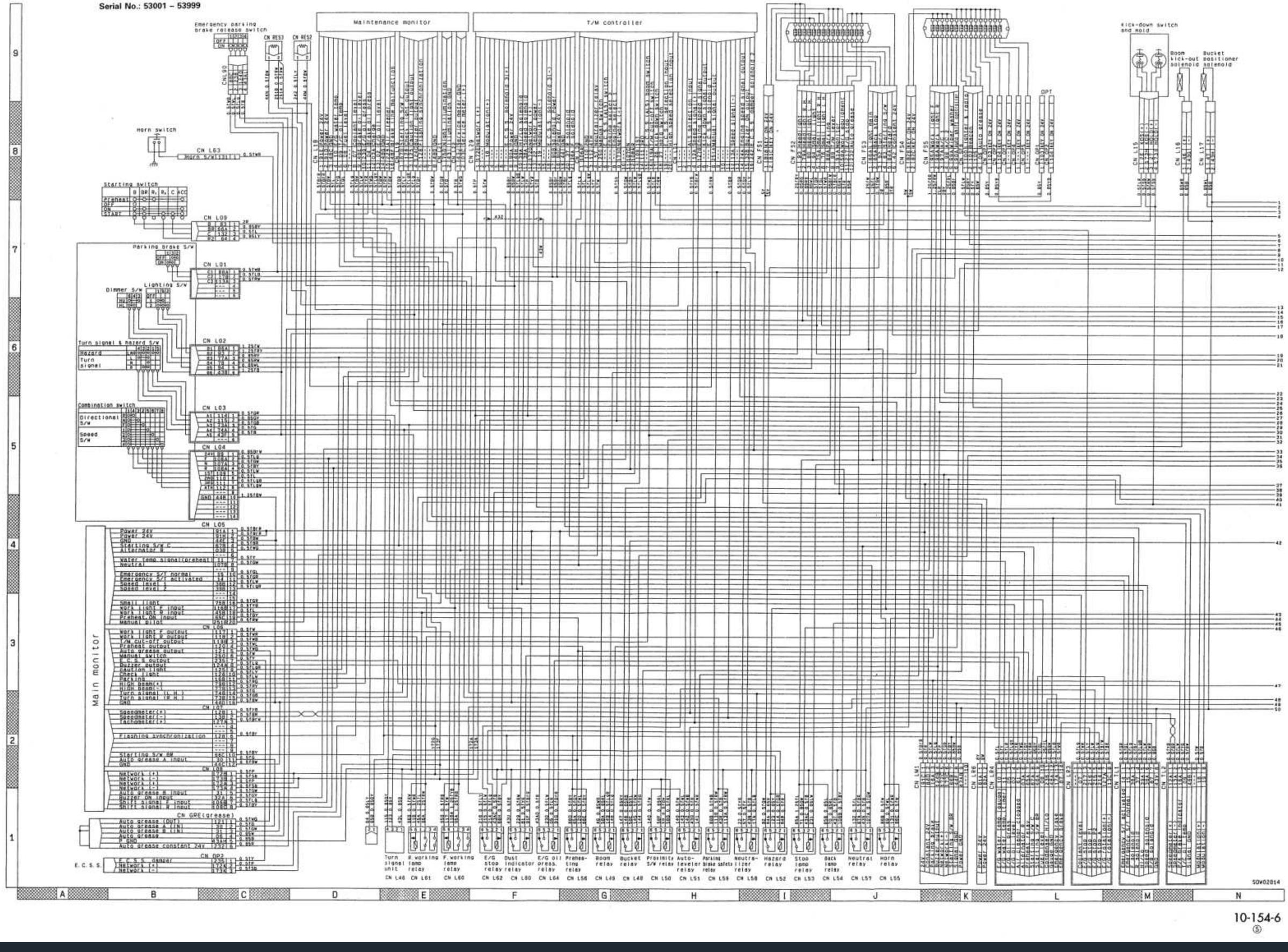
      Periphery of main relief valve spool: **Apply oil (EO10-CD)**



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With auto shift transmission
Serial No.: 53001 – 53999



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