

PARTS & SERVICE NEWS

REF NO.	AA01175
DATE	August 28, 2001

SUBJECT: IMPROVEMENT OF TRANSMISSION HOSE

PURPOSE: Introduce a procedure for modification of transmission hose and support to avoid hose failures.

APPLICATION: WA420-3MC Wheel Loader Serial Number A31001 to A31111
WA450-3MC Wheel Loader Serial Number A31001 to A31262
WA420-3L Wheel Loader Serial Number A30001 to A30175
WA450-3L Wheel Loader Serial Number A30001 to A30361

FAILURE CODE: 1556AA

DESCRIPTION:

The hose connecting the transmission pump with the flow control valve may likely break down due to insufficient strength of the mouth piece. If breakage does take place on the mounting piece, it is required to make repair following installation procedure case no. 1 or 2 mentioned in this service news.

MACHINE PREPARATION:

1. Park the machine on a flat level surface, lower the work equipment to the ground. Shut off the engine and cycle the controls to remove any residual hydraulic pressure from the work equipment circuits. Fully apply the parking brake.
2. Remove the key from the start switch until the repairs are complete. Place a tag on the steering controls advising: **"This machine is being repaired. It should not be started or moved for any reason until the tag is removed by the person doing the repairs."**

PLEASE OBSERVE ALL SAFETY AND PRECAUTIONARY STANDARDS AS DICTATED BY THE ENVIRONMENT AND WORK CONDITIONS UNDER WHICH THE EQUIPMENT WILL BE INSPECTED, REWORKED AND REPAIRED. CONSULT THE "SHOP MANUAL" AND "OPERATOR'S AND MAINTENANCE MANUAL" AND YOUR "KOMATSU DISTRICT SERVICE MANAGER" WITH ANY/ALL QUESTIONS REGARDING SAFETY.

Note: o determine which installation procedure case applies to your machine, check the length of the hose connecting the transmission pump to flow control valve:(See Figure 1, 2 and 3).

Hose length	Case number to apply
635 mm +12/-0	1
605 mm +12/-0	2

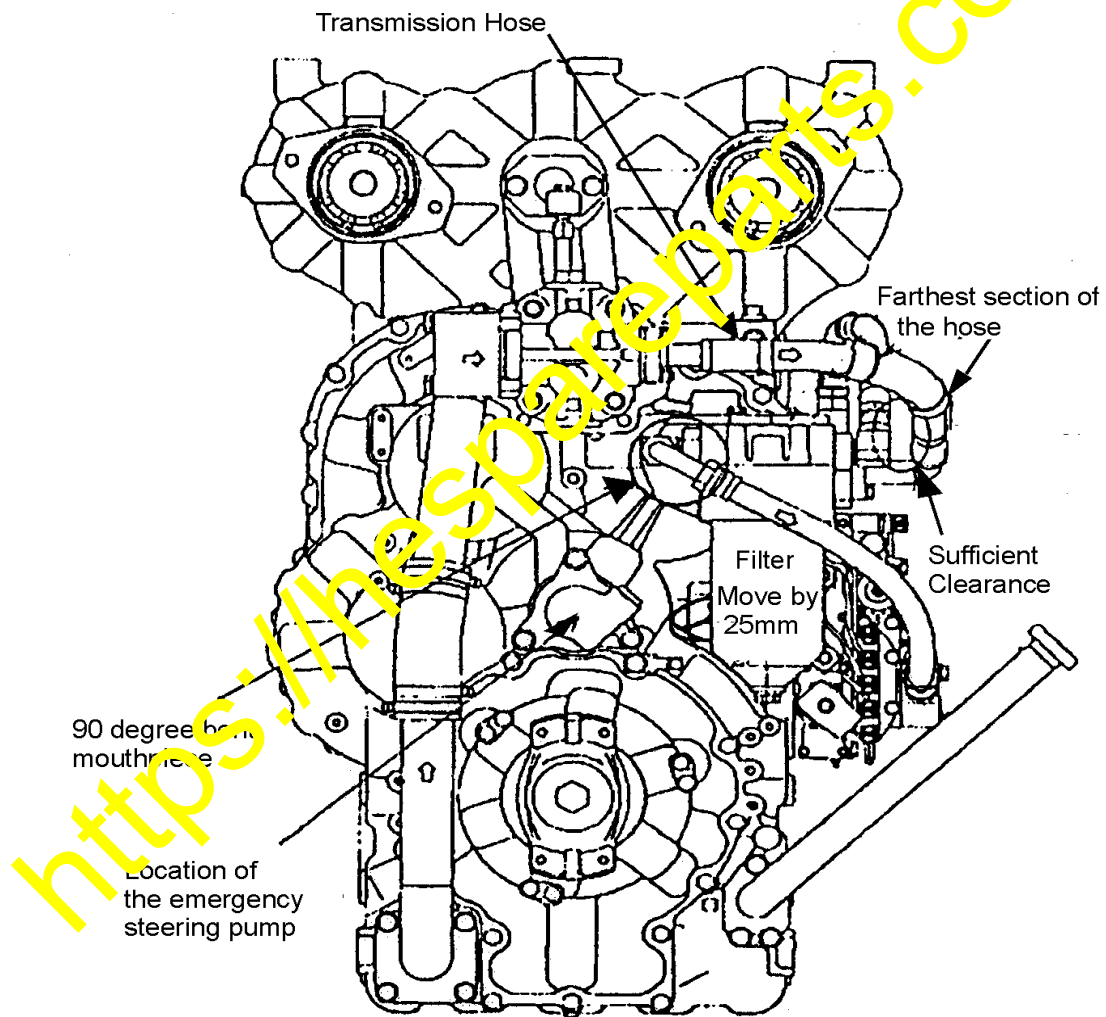


Figure 1

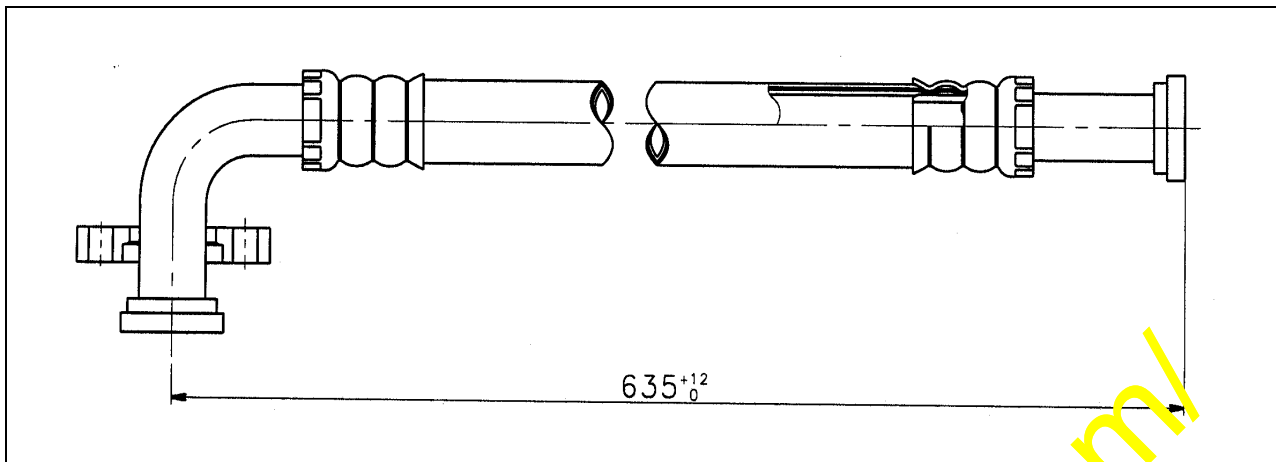


Figure 2

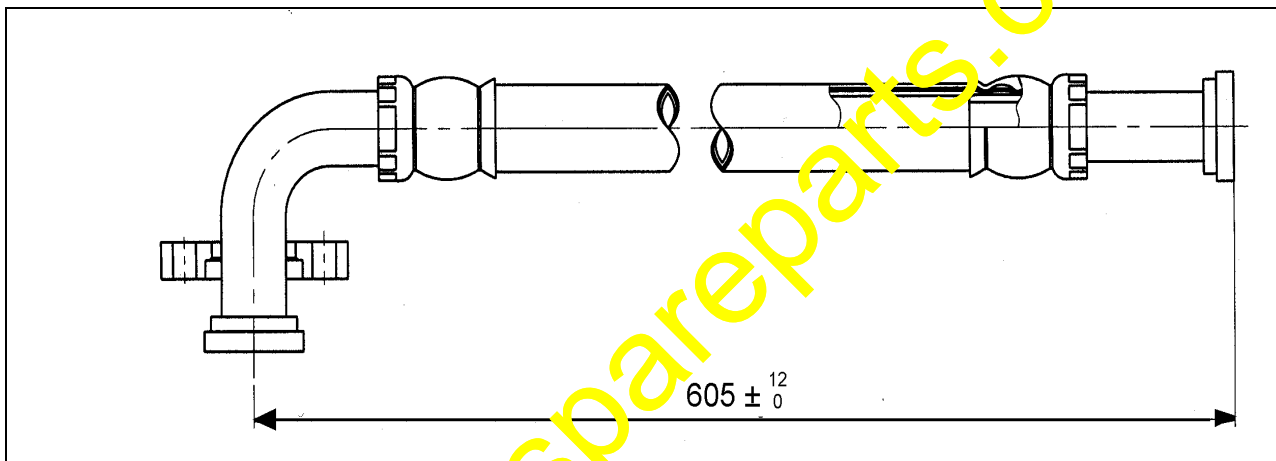


Figure 3

CASE 1

Parts Requirement:

Qty.	Description	Part Number
1	Hose	714-07-14762
1	Cover	205-62-53780
2	Band	08034-20519
1	Support	714-07-14571
1	Hose	714-07-14770
1	Hose	203-62-64480

1. Place the new cover #2 (205-62-53780) over the new transmission hose #1 (714-07-14762)
(Note: Total length of transmission hose must 605mm \pm 12/-0) and tie it with the new band #3 (08034-20519). See Figure 4.

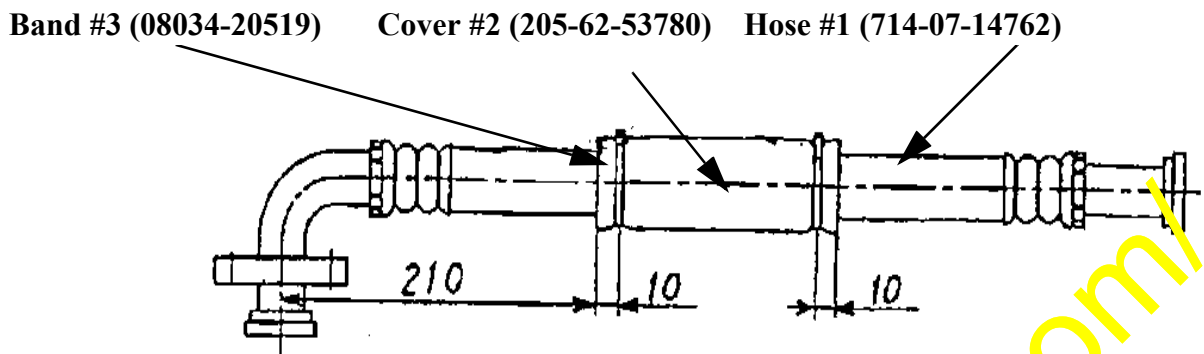


Figure 4

2. Remove the existing hoses #1, #6 and #7 and discard them. See Figure 5.
3. Remove filter head from it's support and discard support only. Keep the filter head, it will be reused on the new support P/N 714-07-14571, See fig. 6
4. Reinstall the filter head assembly to the new support. See Figure 6.

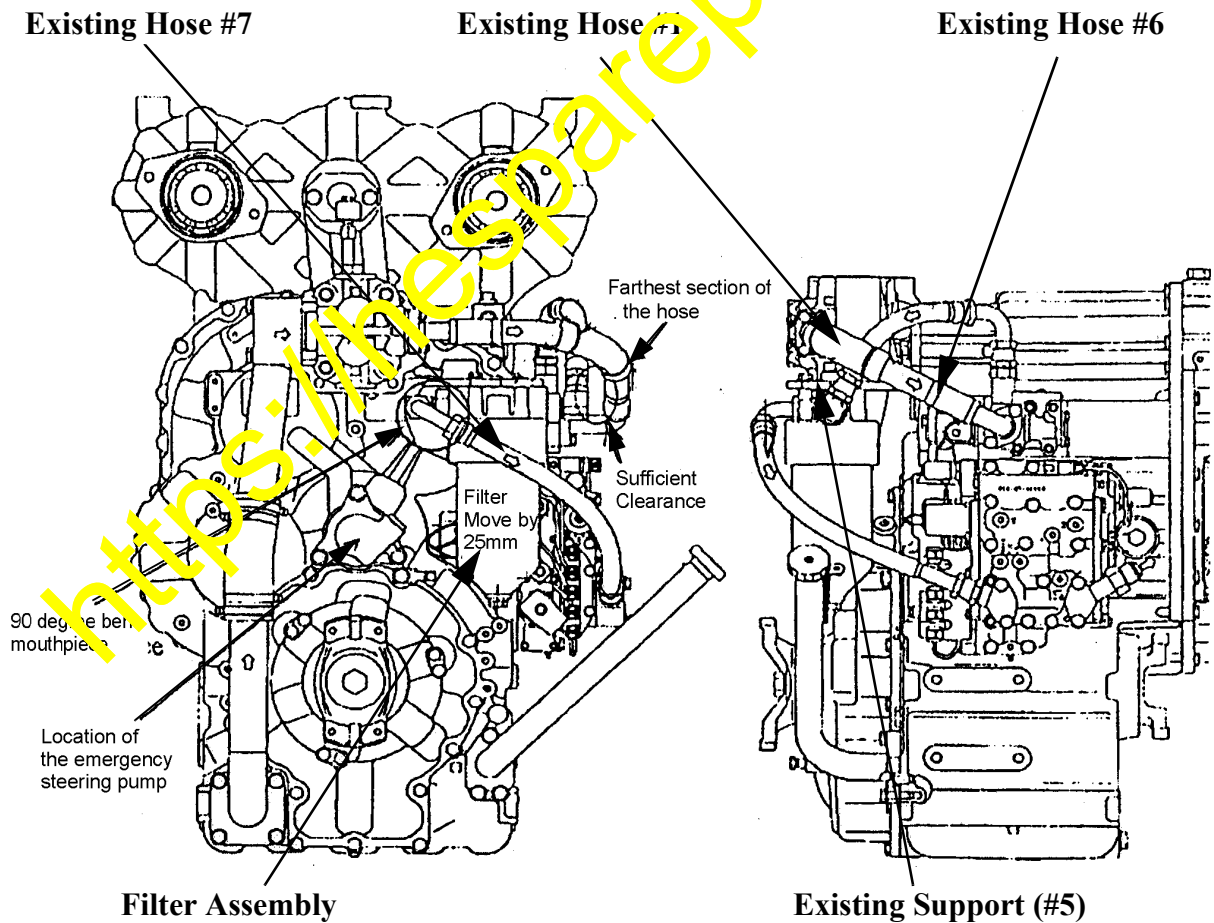


Figure 5

5. Install the new hose #6 (714-07-14770) & #7 (203-62-64480). Adjust the mounting angle of the elbow on the filter outlet side to 0° (Horizontal) See Figure 6. When doing this, temporarily connect the mouthpieces at both ends of the hose to check if the hose is without twists before tightening the mouthpiece connections. Meanwhile, refer to Figure 6 & 7 given below regarding the mounting angle of the filter side mouthpiece.

Notes: Tightening torques: 15-21 Kg-m.

6. Install the new hose #1 (714-07-14762) in place and temporarily tightening the bolts at both ends. This is to ensure that the hose is not twisted. See Figure 8.
7. The bolt on the flow control valve side (End A) will be tightened to 3-4Kg-m and paint LT-2, and end B (Pump side) tighten to 6-7 Kg-m. See Figure 8.

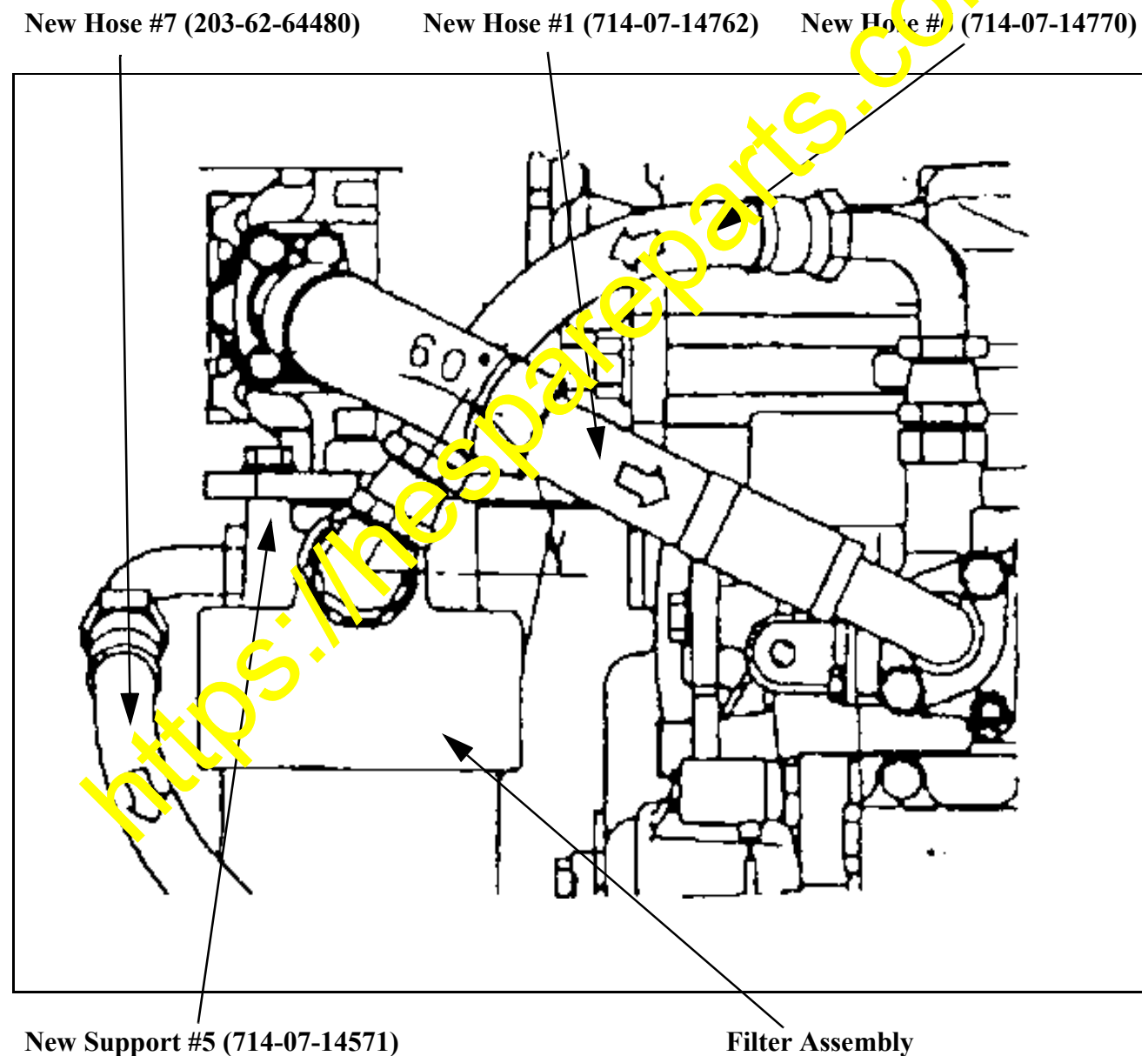


Figure 6

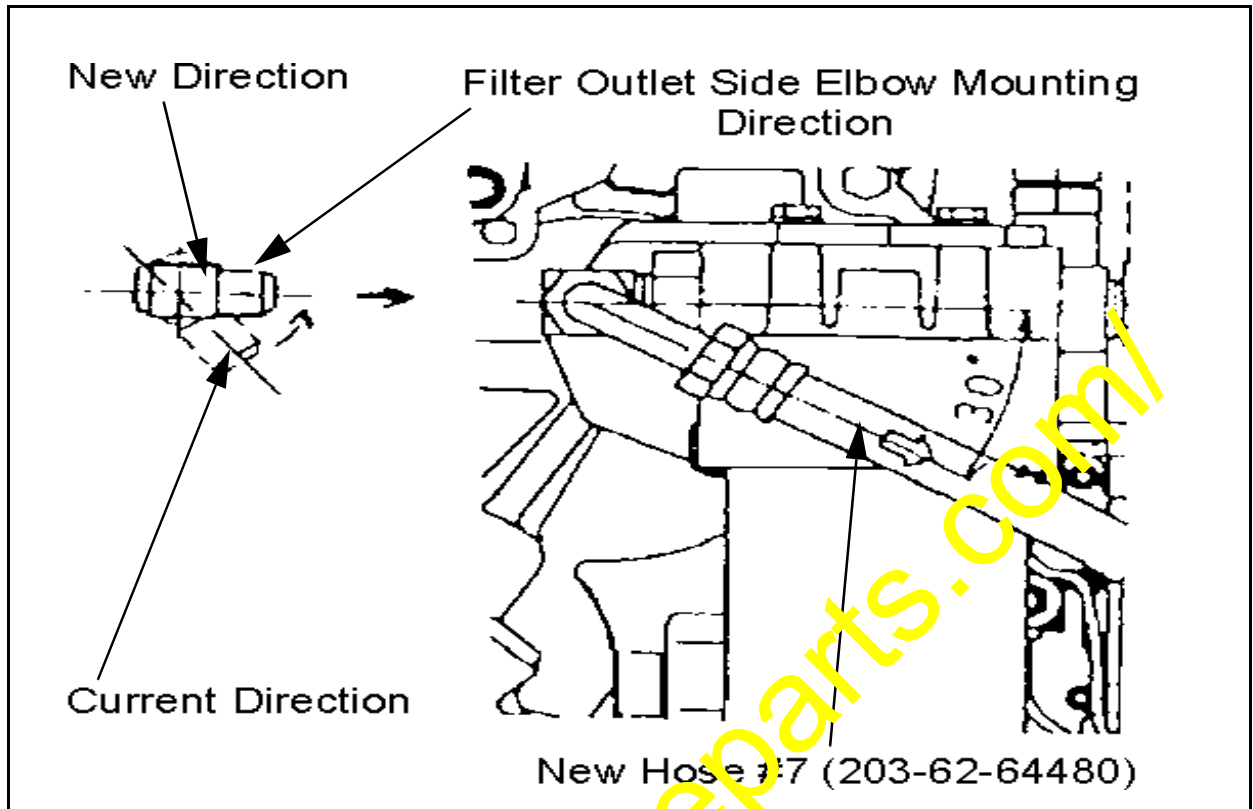


Figure 7

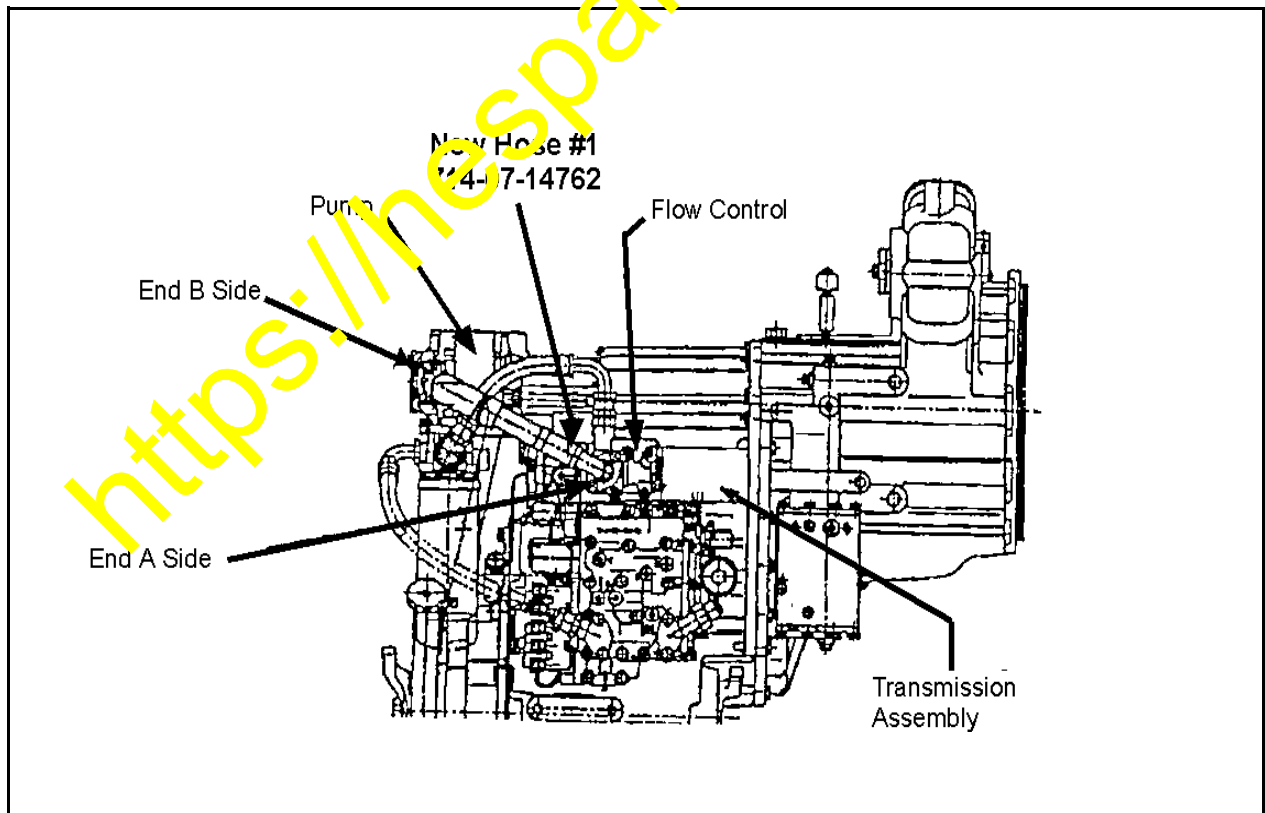


Figure 8

CASE 2**Parts Requirement:**

Item	Qty.	Description	Part Number
1	1	Hose	714-07-147
2	1	Cover	205-62-53780
3	2	Band	08034-20519

Installation Procedural Instructions

8. Place the new cover #2 (205-62-53780) over the new transmission hose #1 (714-07-14762).
(Note: Total length of transmission hose must be 605mm +12/-0, and tied with the new band #3 (08034-20519), See Figure 4.
9. Remove the old hoses #1 from the transmission. See Figure 9.
10. Set new hose #1 (714-07-14762) on the place and temporarily fixing the bolts both ends, to make sure there is no twisting. See Figure 10.
11. The bolt on the flow control valve side (End A) will be tightened to 3-4Kg-m and paint LT2, and End B (Pump side) tighten to 6-7.5KG-m. See Figure 10

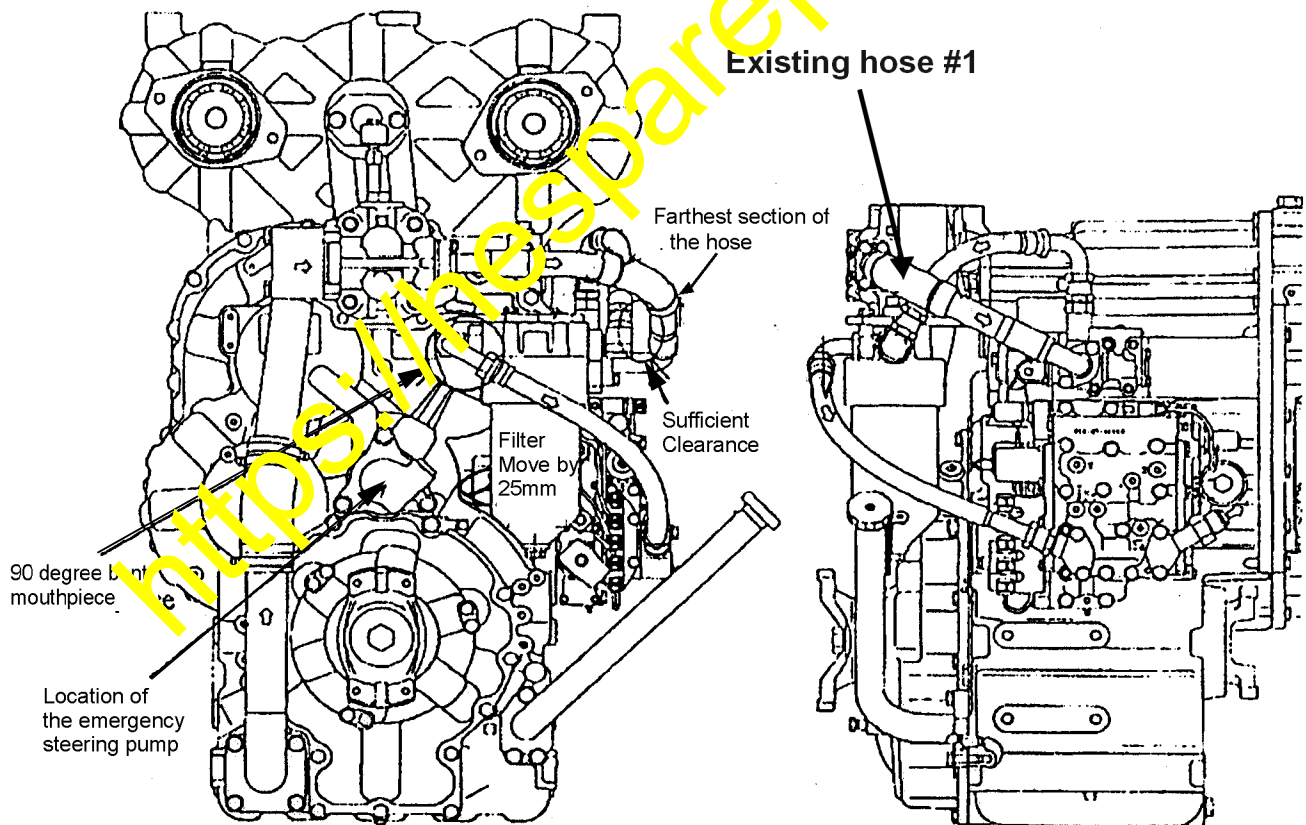


Figure 9

