MAXXFARM 40 & 50

Preliminary Service Manual

May 2009

47673550

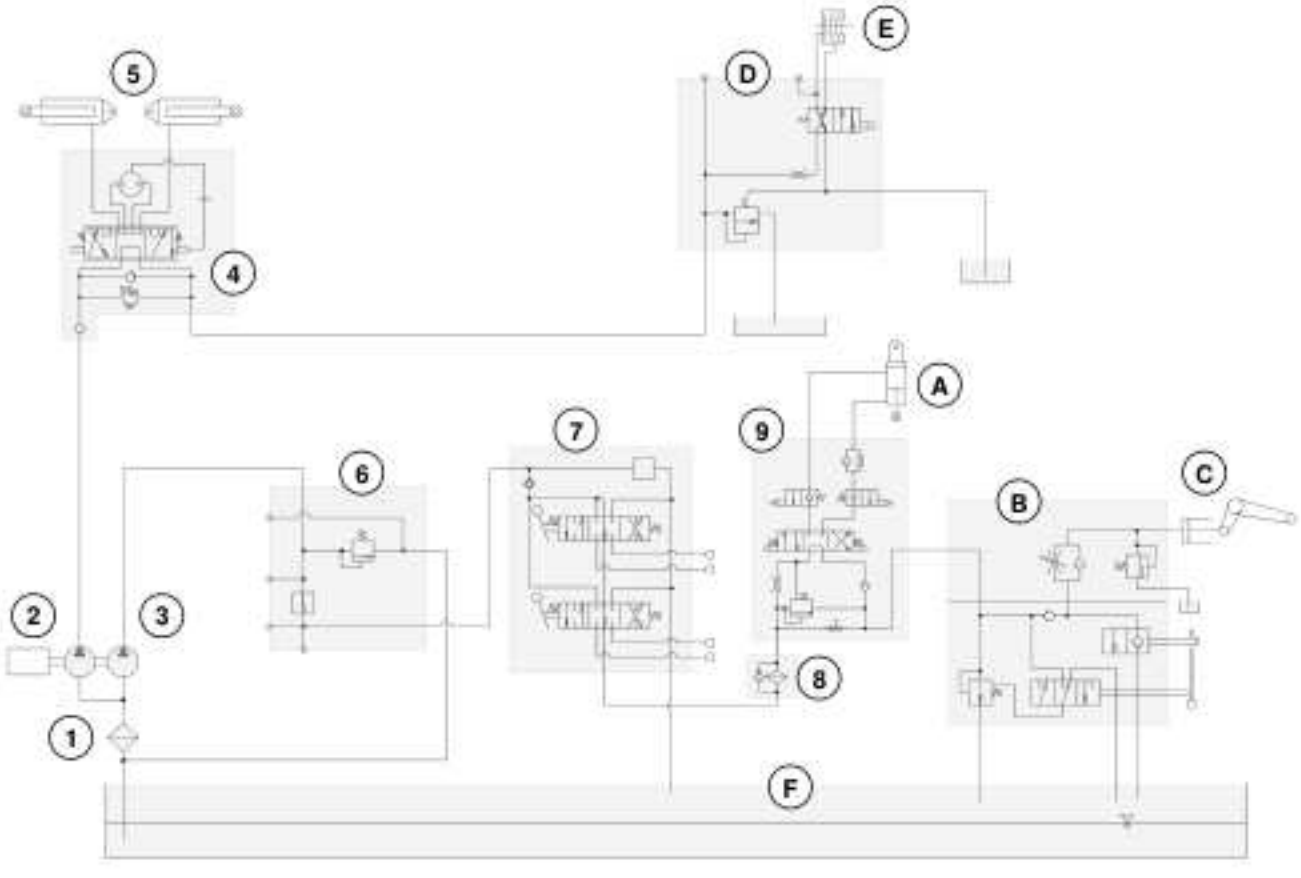
NB: For Maxxfarm 40 & 50 refer to the R41 & R47 models listed in this manual

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Hydraulic circuit diagram

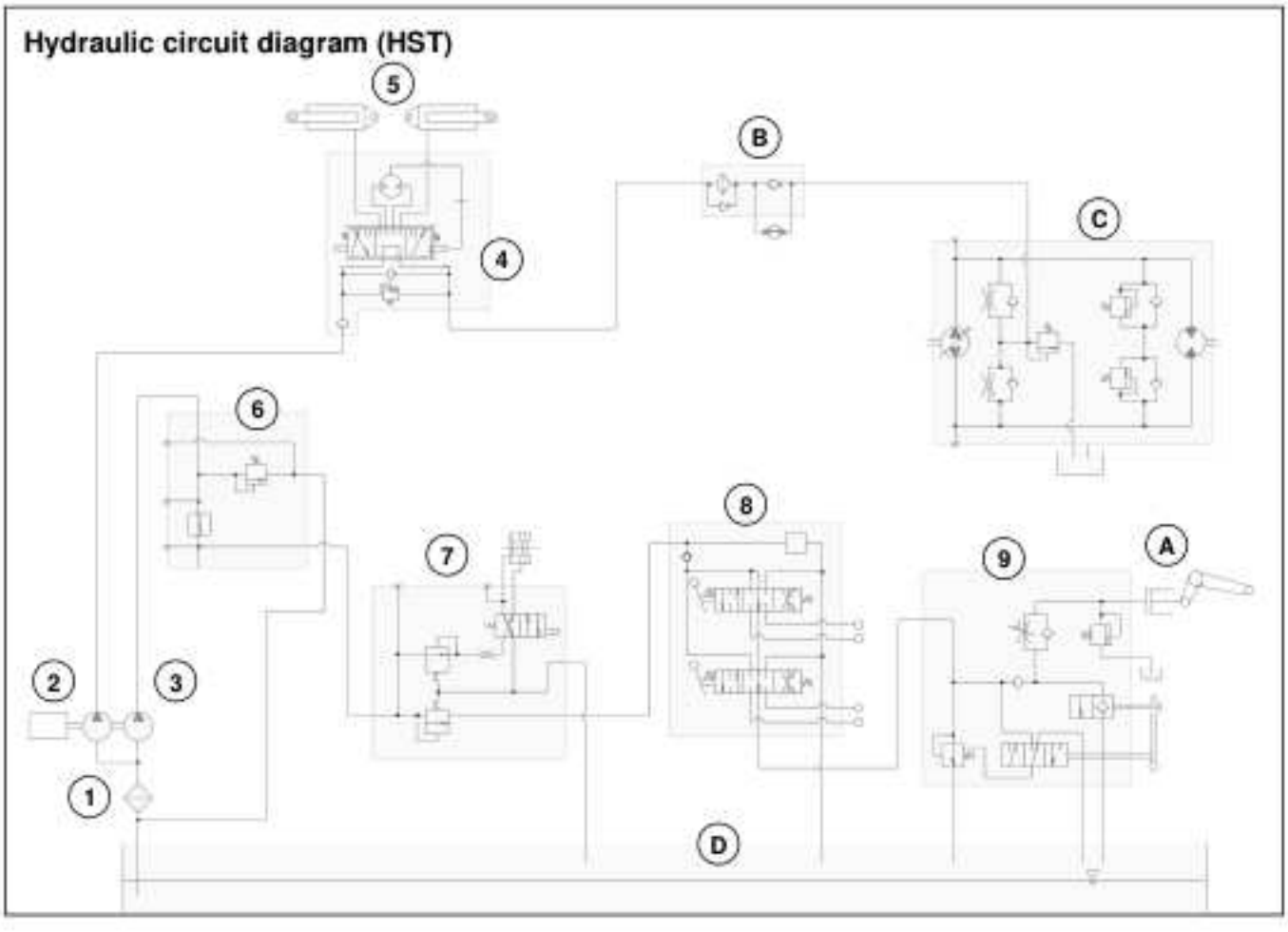


	NAME	R 41	R 47
1	Filter	(45㎛)	
2	Steering Pump	6.0cc/rev @ 2,600rpm	6.0cc/rev @ 2,700rpm
3	Main Pump	12cc/rev @ 2,600rpm	12cc/rev @2,700rpm
4	Steering Unit	62cc/rev, 145kgf/㎠ @ 15Liter/min	
5	Valve block	Relief valve 170~175kgf/㎠ @ 30liter/min	
6	Steering Cylinder	Diameter 35 x Stroke 181	
7	Remote Valve	-	
8	Line Filter	20 ㎛ , Safety valve 7bar	
9	Auto Leveler control	6liter/min	
A	Cylinder	Diameter 50 x Diameter 22.4 X Stroke 130	
B	Safety	Safety Valve 200kgf/㎠	
C	Cylinder	Diameter 80 x Stroke 113	
D	PTO Control	SQ: 15~16kgf/㎠ @ 15liter/min PTO clutch lubrication : 3.2~3.6liter (Diameter ∉ 1.3)	
E	PTO Clutch	-	
F	Oil tank (Transmission)	SAE80W	

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Hydraulic circuit diagram (HST)

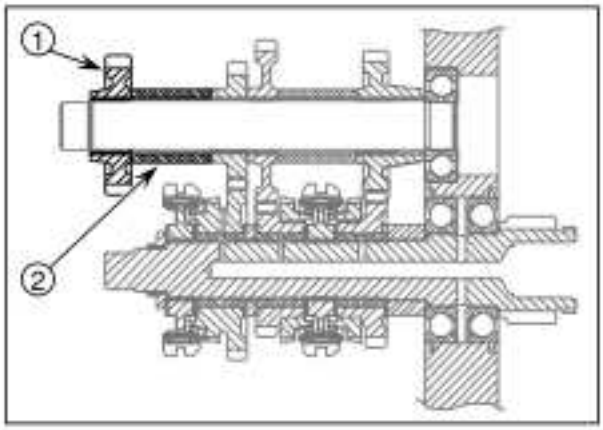


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8	Remote control	-	
9	Safety	safety 200kgf/㎠	
A	Cylinder	Diameter 80 x Stroke 113	
B	HST Filter & Cooler	Filter open pressure: 2.0kgf/㎠, Full open 2.8kgf/㎠ Cooler open pressure 4.2kgf/㎠, Full open 5.5kgf/㎠	
C	HST		
D	Oil tank (Transmission)	SAE80W	

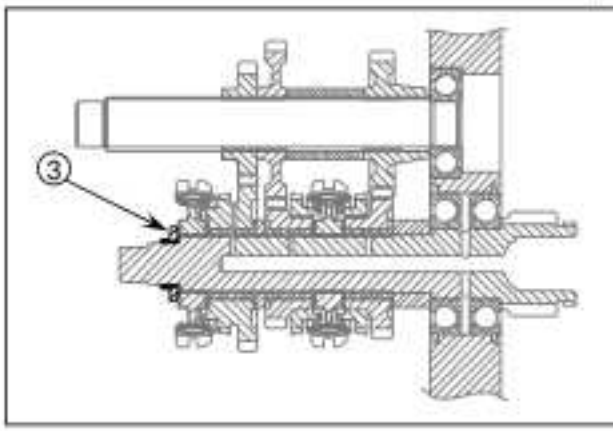
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• Remove gear(1) and spacer(2)



• loosen nut(3)



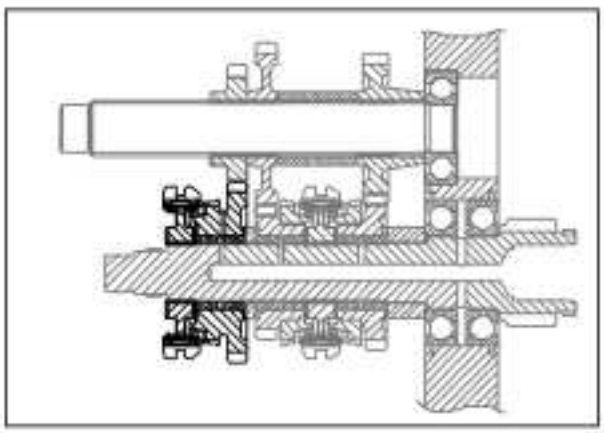
Notice in assembling

• tightening torque : 100~150 kg-cm.

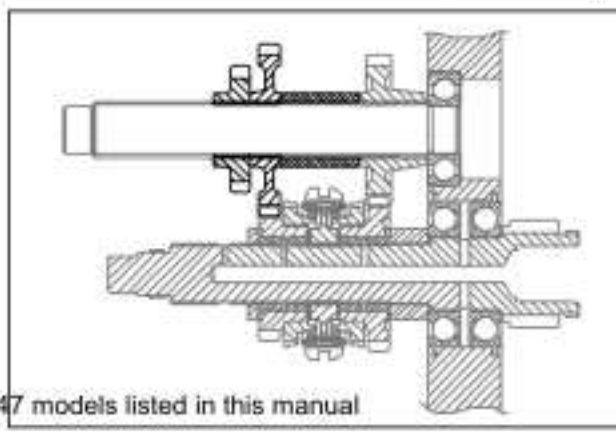
• fix nut after tighten the nut

• Remove synchronize assembly and bushing

• When assembling sleeve, splay side should go to reverse



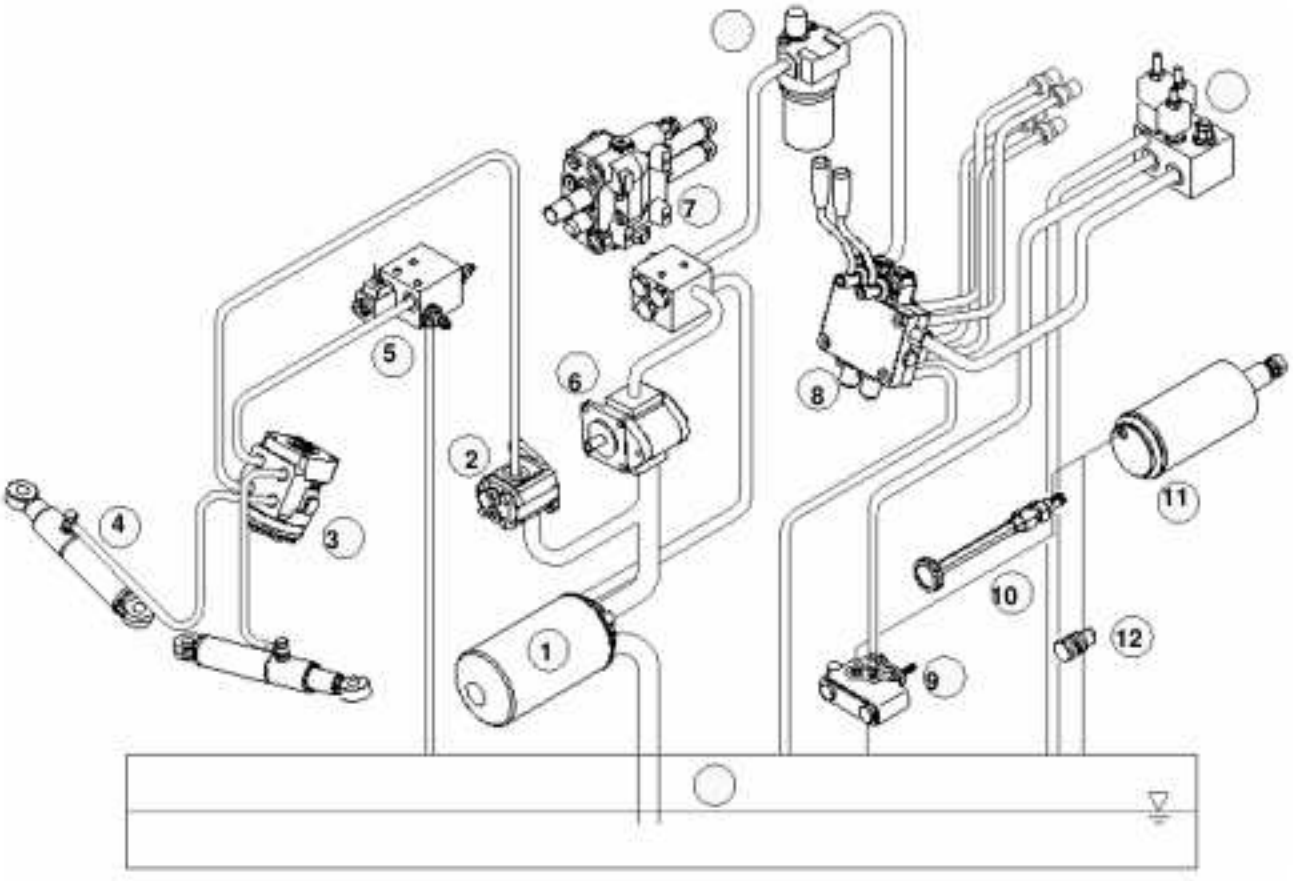
• Remove countershaft and gear



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Schematic view of hydraulic System

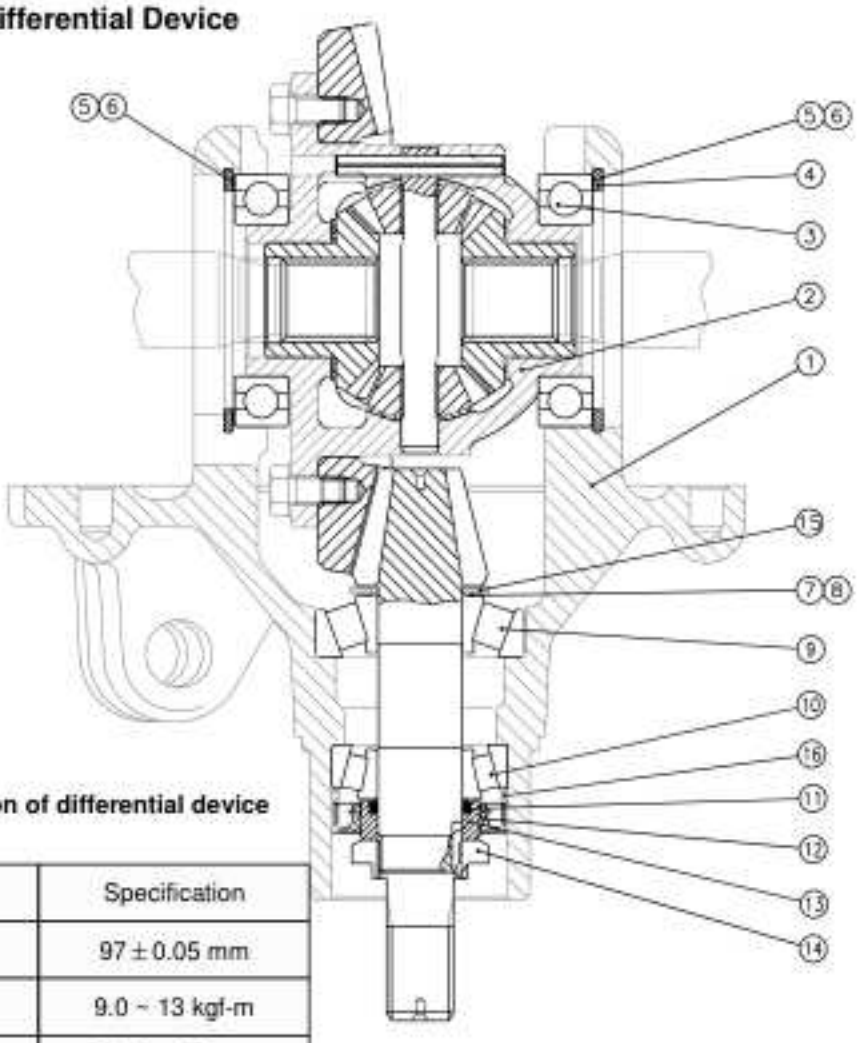


1. Filter 2. Pump (for steering) 3. Steering Unit 4. Steering Cylinder 5. PTO control valve 6. Pump (Main)
7. Valve block, Loader Valve (Option) 8. Remote Control Valve 9. Control Valve 10. Drop speed control
11. Cylinder 12. Safety Valve

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• **Front Wheel Pinion & Differential Device**



• **Main adjustment dimension of differential device**

	Specification
1.Pinion center distance	97 ± 0.05 mm
2. Pinion assembling revolving force	9.0 ~ 13 kgf-m
3. Pinion and differential backlash	0.10 ~ 0.3 mm

(1) Pinion center distance

• It means the distance from the rear part of pinion gear to the center which is adjusted by liner(15). For more information, refer to next page.

(2) Pinion assembling revolving force

• Assemble pinion only in the state not assembling the differential device and check revolving force and then adjust it at standard using the nut(14).

(3) Pinion and Differential gear backlash

• Adjust to reach standard using liner (5) and (6).

• **Notices in Adjusting**

• When disassembling the differential combination, classify not to change the liner.

• When changing the case or differential combination, disregard the existing liner and carry out the readjustment.

• After completing the checking of pinion revolving force, press the grove and fix the nut(14) completely.

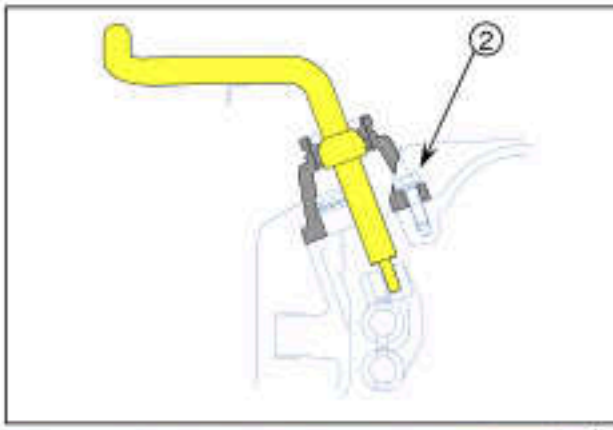
• When measuring the pinion center distance, measure the gap of pinion gear first. – Refer to "Adjustment of Pinion center distance" on next page.

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Main change lever

• Loosen blots(2), remove lever assembly



Notice in assembling

• When assembling, if lever position is in neutral, the end of lever assembly is located in the groove of fork

Side cover of clutch housing

• Loosen bolts and remove side cover



Rail for shuttle.

• Remove fork holding spring pin



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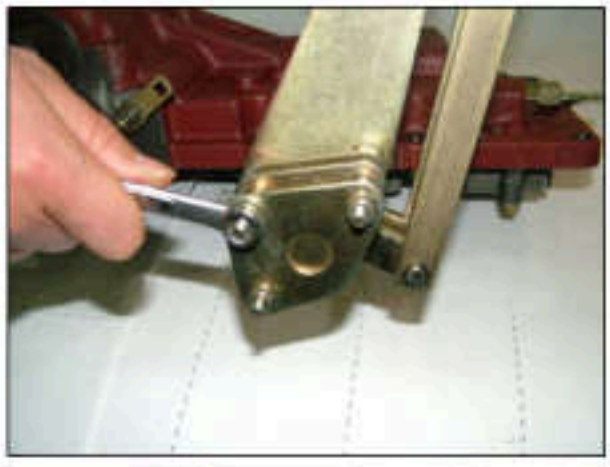
• Loosen bolt and remove spring and ball



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• Loosen nuts at lever side



• Remove plate and spring



• Remove snap-ring



• Remove plate and friction plate



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