SERVICE MANUAL

TT55 / TT65 / TT75

Tractor

Part number 47899733

1st edition English

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Contents

INTRODUCTION

Engine 10

[10.001] Engine and crankcase 10.1

[10.102] Pan and covers 10.2

[10.106] Valve drive and gears 10.3

[10.101] Cylinder heads 10.4

[10.105] Connecting rods and pistons 10.5

[10.103] Crankshaft and flywheel 10.6

[10.110] Balancer and damper 10.7

[10.218] Fuel injection system 10.8

[10.202] Air cleaners and lines 10.9

[10.400] Engine cooling system 10.10

[10.414] Fan and drive 10.11

[10.304] Engine lubrication system 10.12

Clutch 18

[18.110] Clutch and components 18.1

Transmission 21

[21.114] Mechanical transmission 21.1

[21.140] Mechanical transmission internal components 21.2

[21.126] Gearbox external controls 21.3

[21.145] Gearbox internal components 21.4

Four-Wheel Drive (4WD) system 23

[23.314] Drive shaft 23.1

Front axle system 25

[25.400] Non-powered front axle 25.1

[25.100] Powered front axle 25.2

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[25.102] Front bevel gear set and differential 25.3
[25.108] Final drive hub, steering knuckles, and shafts 25.4
Rear axle system 27
[27.100] Powered rear axle 27.1
[27.106] Rear bevel gear set and differential 27.2
[27.120] Planetary and final drives 27.3
Power Take-Off (PTO) 31
[31.101] Rear mechanical control 31.1
[31.201] Power Take-Off (PTO) drive shaft 31.2
Brakes and controls 33
[33.120] Mechanical service brakes 33.1
[33.110] Parking brake or parking lock 33.2
Hydraulic systems 35
[35.000] Hydraulic systems 35.1
[35.104] Fixed displacement pump 35.2
[35.359] Main control valve 35.3
[35.204] Remote control valves 35.4
[35.100] Main lift system 35.5
Steering 41
[41.101] Steering control 41.1
[41.200] Hydraulic control components 41.2
[41.216] Cylinders 41.3
Wheels 44
[44.511] Front wheels 44.1
Electrical systems 55
[55.000] Electrical system 55.1
[55.100] Harnesses and connectors 55.2
[55.201] Engine starting system 55.3

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[55.301] Alternator 55.4
[55.302] Battery 55.5
[55.404] External lighting 55.6
[55.408] Warning indicators, alarms, and instruments 55.7

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Non-powered front axle - General specification

Type	Centrally pivoted U -type centre beam with telescopic outer sections.
Track settings	
TT75	1390 mm (55 in) - 1490 mm (59 in) - 1590 mm (63 in) - 1690 mm (67 in) - 1790 mm (70 in) - 1890 mm (74 in)
TT55	2629 mm (104 in) - 1510 mm (59 in) - 1610 mm (63 in) - 1710 mm (67 in) - 1810 mm (71 in) - 1910 mm (75 in)
Wheel chamber	2° corresponding to approx. 15.00 mm (0.59 in) with 406.40 mm (16.00 in) rims
Wheel toe-in	0.000 – 5.000 mm (0.000 – 0.197 in)
Swivel pin assembly	
Swivel pin (3) diameter at the bushes	37.960 – 38.000 mm (1.494 – 1.496 in)
Press-fit bush (4) inner diameter	38.050 – 38.140 mm (1.498 – 1.502 in)
Swivel pin to bush clearance	0.050 – 0.179 mm (0.002 – 0.007 in)
Axle pivot pin assembly	
Pivot pin (9) diameter	37.960 – 38.000 mm (1.494 – 1.496 in)
Press-fit bush (4) inner diameter	38.050 – 38.140 mm (1.498 – 1.502 in)
Pivot pin to bush clearance	0.050 – 0.179 mm (0.002 – 0.007 in)
Thrust washer thickness (bronze)	
TT75	3.935 – 4.065 mm (0.155 – 0.160 in)
TT55	3.935 – 4.000 mm (0.155 – 0.157 in)
Steel washer thickness	3.925 – 4.000 mm (0.155 – 0.157 in)

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Non-powered front axle - Torque

Description	Thread size	Torque
Bolt, front axle carrier to engine (C1)	M18 x 1.5	320 N·m (236 lb ft)
Bolt, axle pivot (C2)	M10 x 1.25	60 N·m (44 lb ft)
Bolt, wheel to hub (C3)	M18 x 1.5	320 N·m (236 lb ft)
Nut, track/drag link, ball joint (C4)	M14 x 1.5	100 N·m (74 lb ft)

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Mechanical service brakes - Troubleshooting

Problem	Possible Cause	Correction
Brake actuate only when pedal is depressed fully	In correct pedal adjustment	Check and adjust
Tractor pulls to one side when brakes applied	Brakes not equally adjusted	Adjust
	Wrong tire pressure	Inflate tires to correct pressure
	Wrong liners on one side	Replace discs
Brakes noisy	Oil contamination	Check and change with recommended oil
	Wrong brake disc	Replace brake discs
Brakes remain applied when pedals are released	Seized brake actuating linkages	Clean and lubricate linkages
Pedals are hard to operate	Seized brake actuating linkages	Clean and lubricate linkages

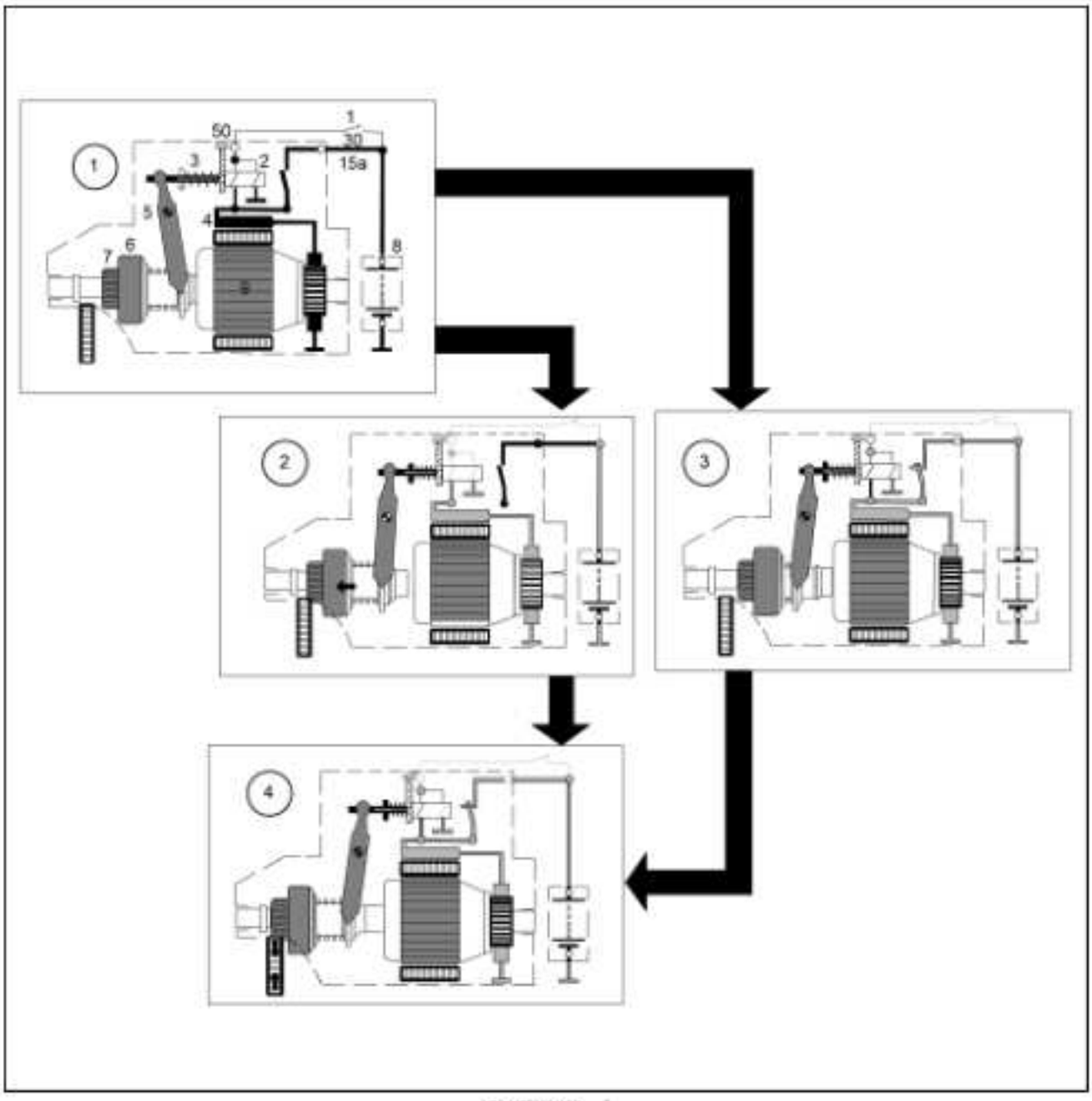
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Engine starting system - Overview

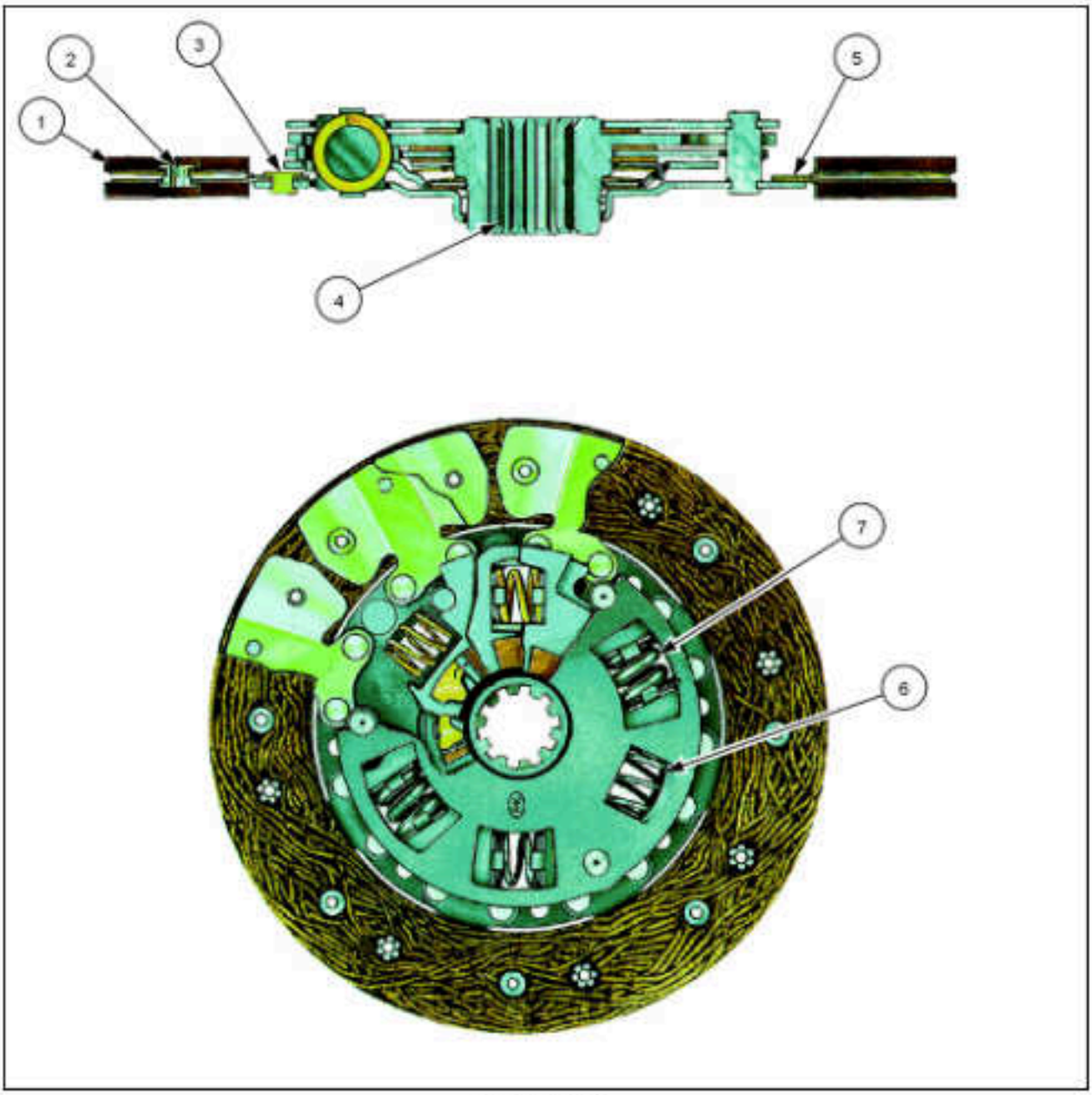
Tractor is fitted with a **12 V**, solenoid operated pre-engaged type starter.

When the key is turned to the start position, an electrical circuit is made, from the key switch, through gearbox mounted safety start switch to the starter solenoid. The electricity in this circuit energies the solenoid coils and the solenoid plunger is magnetically attracted into the solenoid core. This movement, transmitted through a mechanical linkage pulls the drive pinion to mesh with the flywheel ring gear. When the pinion gear is fully meshed with the ring gear the solenoid plunger reaches the end of its travel and contacts with a switch connecting the battery directly to the starter motor. This switch directs battery power directly to the starter motor, which causes it to rotate and as a consequence, the engine is cranked to start.

When the key switch is released, battery power to the solenoid is removed. The solenoid plunger returns to rest position (aided by the solenoid plunger spring) and the starter pinion is released from the flywheel ring gear, this also breaks the battery connection. To protect the starter motor from high engine speed, an over run clutch is fitted between the starter motor and pinion gear.



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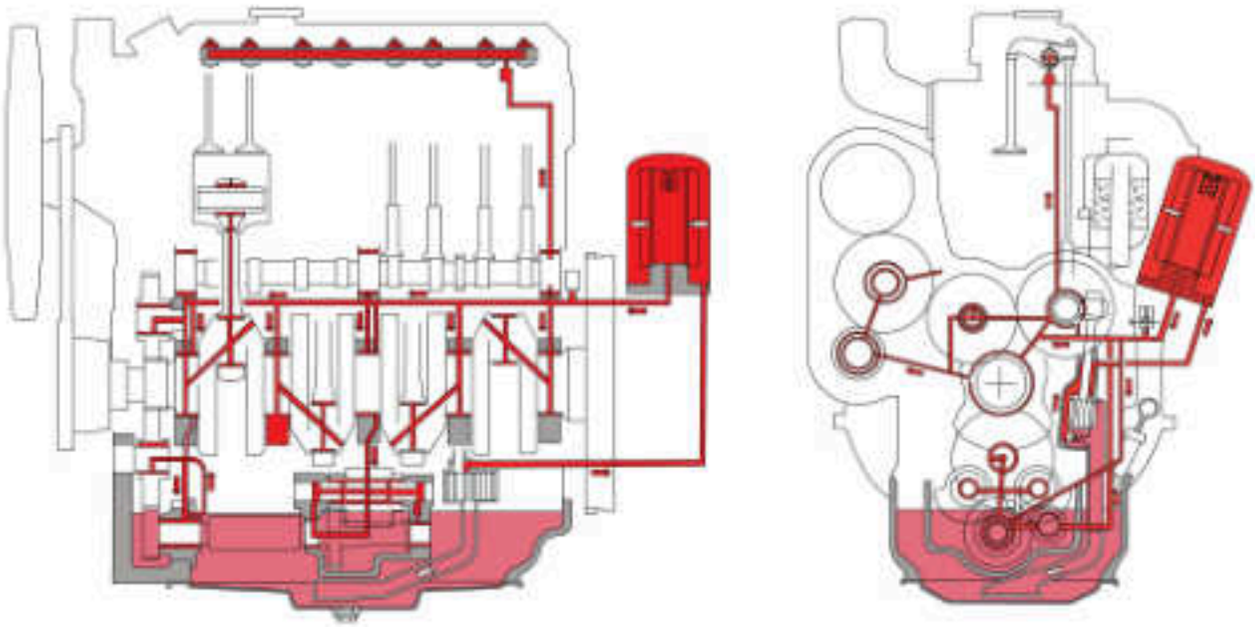
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Clutch plate

1. Clutch facing
2. Facing rivet
3. Segment rivet
4. Hub
5. Segment
6. Idle damper spring
7. Main damper spring

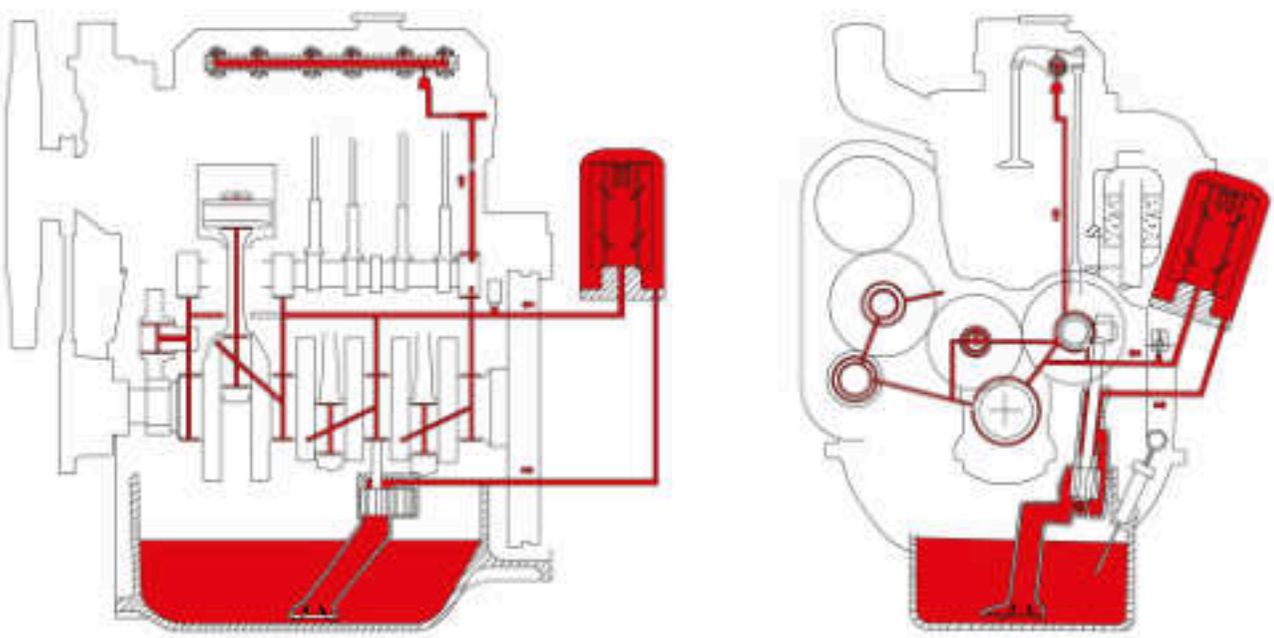
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TT75



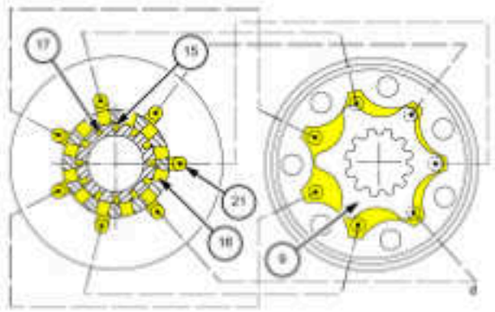
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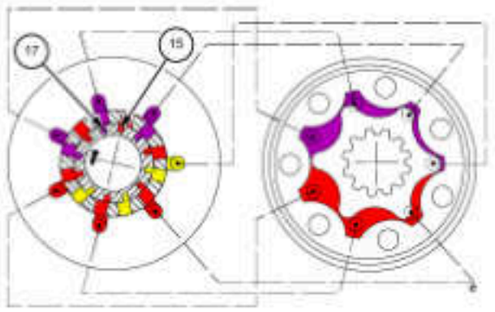
TT55

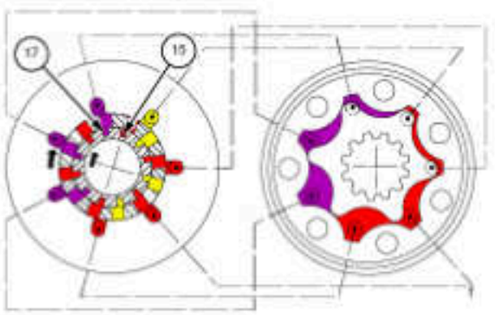


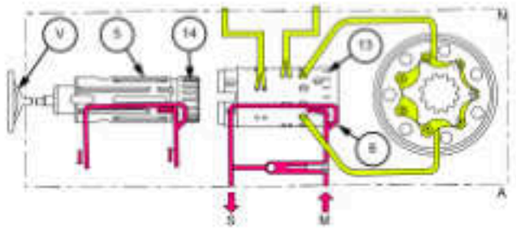
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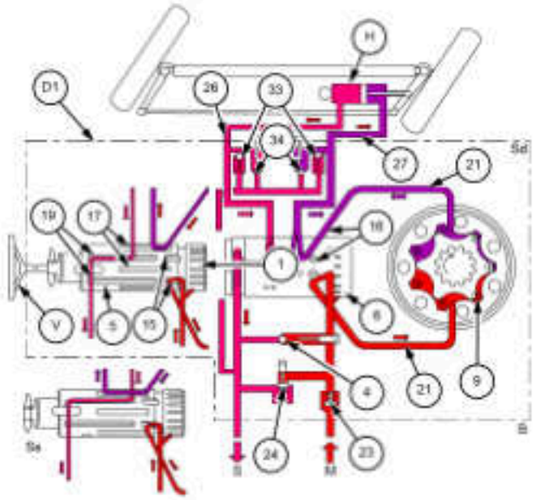
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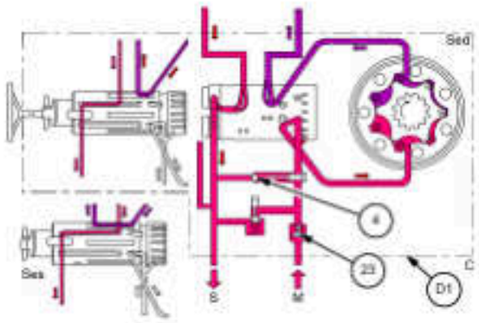


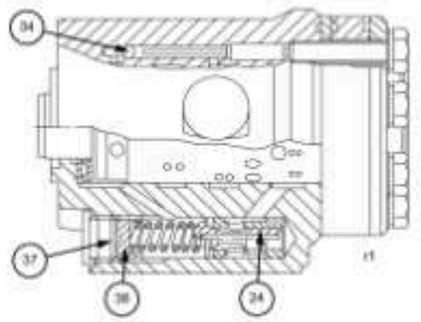


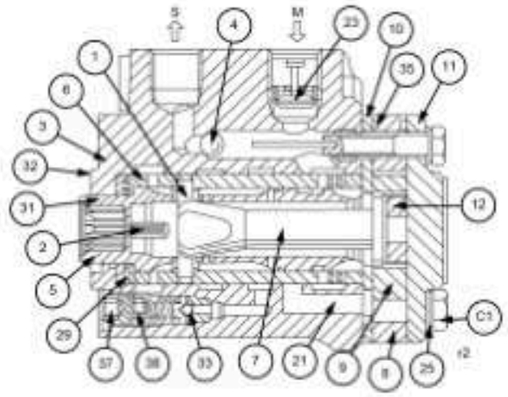


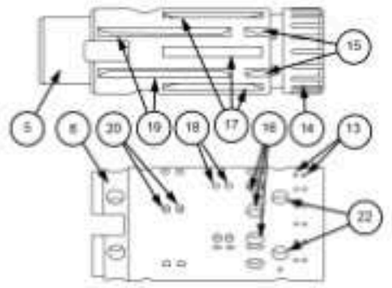


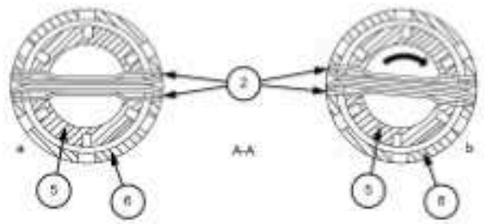


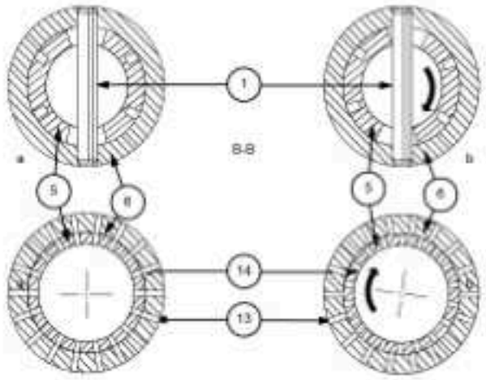


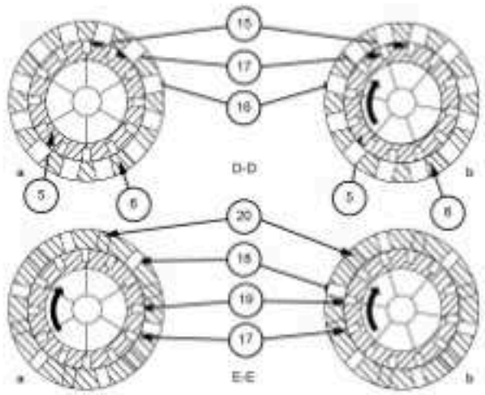












Oil Pressure to power cylinder

Oil pressure to rotor

Inlet, low pressure or return oil

Trapped oil

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