SERVICE MANUAL

Backhoe Loaders
B100C / B100CLR / B100CTC
B110C / B110CTC / B115C

Print No. 84568042A

NEW HOLLAND CONSTRUCTION

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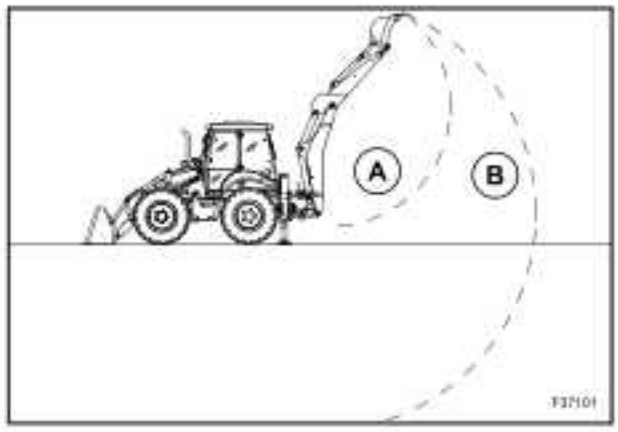
LIFTING CAPACITY - MODELS B115C (SIDESHIFT)

Lifting capacity in normal operating mode - SAE rated

The following table reports the lifting capacities of the dipper (A) and the boom (B).

NOTE: *the capacities indicated may slightly vary from one machine to another, according to the accessories mounted, the pressure settings and the market requirements.*

Lifting capacities are given in kg (lb) for a standard dipper and a telescopic dipper.



Dipper		Telescopic dipper (retracted)		Telescopic dipper (extended)		Height/Depth
Dipper A	Boom B	Dipper A	Boom B	Dipper A	Boom B	m (ft)
					565 (1243)	+5.4 (18)
	1110 (2442)		1025 (2255)		850 (1870)	+4.9 (16)
	1500 (3300)		1395 (3069)	1525 (3355)	995 (2189)	+4.3 (14)
2425 (5335)	1645 (3619)	2315 (5093)	1530 (3366)	1625 (3575)	1070 (2354)	+3.6 (12)
2350 (5170)	1685 (3707)	2245 (4939)	1565 (3443)	1625 (3575)	1110 (2442)	+3.0 (10)
2395 (5269)	1685 (3707)	2280 (5016)	1560 (3432)	1650 (3630)	1130 (2486)	+2.4 (8)
2575 (5665)	1670 (3674)	2455 (5401)	1540 (3388)	1735 (3817)	1135 (2497)	+1.8 (6)
3115 (6853)	1645 (3619)	2980 (6556)	1515 (3333)	1885 (4147)	1140 (2508)	+1.2 (4)
4555 (10021)	1620 (3564)	4385 (9667)	1485 (3267)	2125 (4675)	1140 (2508)	+0.6 (2)
	1600 (3520)		1460 (3212)	3315 (7293)	1135 (2497)	0 (ground)
	1580 (3476)		1435 (3157)	4565 (10043)	1135 (2497)	-0.6 (2)
	1570 (3454)		1420 (3124)		1140 (2508)	-1.2 (4)
	1575 (3472)		1420 (3124)		1145 (2519)	-1.8 (6)
	1600 (3527)		1440 (3168)		1165 (2563)	-2.4 (8)
	1690 (3726)		1515 (3333)		1200 (2640)	-3.0 (10)
	2095 (4619)		1875 (4125)		1270 (2794)	-3.6 (12)
					1440 (3168)	-4.2 (14)
					2255 (4961)	-4.8 (16)

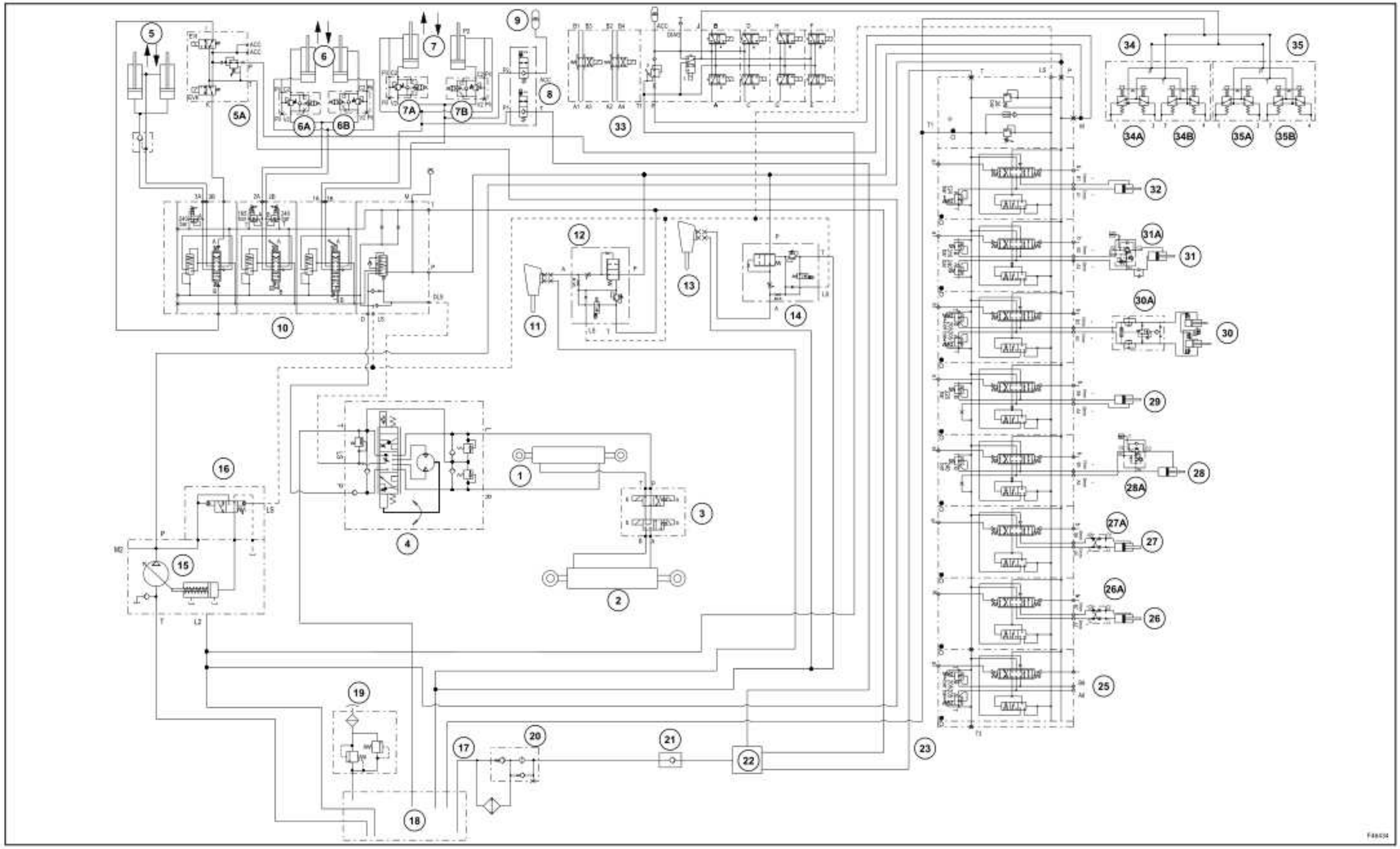
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TROUBLESHOOTING

FAULT	POSSIBLE CAUSE	ACTION
The vehicle does not move.	Control valve supply problem.	Check and, if necessary, replace the control valves.
	Damaged connections of transmission and vehicle wiring harness.	Repair and, if necessary, replace the wiring harness.
	Oxidation in the contacts of the electric cables of the wiring harness.	Clean the contacts.
	Interruption of the electric cable.	Replace the electric cable.
	Damage to the solenoids/solenoid valves.	Replace the solenoids.
	Damage to sensors.	Replace sensors.
	Short circuits or bad contact.	Check and, if necessary, replace the fuses.
	EGM/ECU gearshift electronic control operation fault.	Replace the electronic control of the EGM/ECU gearshift.
	Incorrect oil level.	Restore the oil level.
	Check for possible oil leaks.	Eliminate the leaks and restore the oil level.
	Suction strainer restriction.	Clean the suction strainer.
	Damaged oil pump.	Replace the oil pump.
	Damaged oil pump pressure relief valve.	Replace the oil pump.
	Damaged/restricted filter.	Replace the filter.
	Damaged / stuck control valve.	Replace the control valve.
	Damaged converter.	Replace the converter.
	Oil temperature below 0 °C (32 °F).	Wait for the operating temperature to be reached (stall test).
	Damaged rotary seal rings.	Replace the rotary seal rings.
	Stuck shuttle lever.	Repair the shuttle lever.
	Excessively worn-out clutch assembly.	Repair and, if necessary, replace the clutch discs.
	Lack of motion transmission (broken gears, shafts, bearings, etc.).	Check, repair and, if necessary, replace.

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HYDRAULIC DIAGRAM - 4WS CENTER PIVOT PILOT MODELS POWERSHIFT (B115C)



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LOADER BUCKET CYLINDER REMOVAL (B100CTC - B110CTC - B115C)

Move the machine to a level and firm ground.

Place the bucket firmly on the ground.

Relieve the residual pressure in the system by moving the loader control lever through all operating positions.

Support the cylinder using a sling and a suitable support.

Disconnect the hoses.

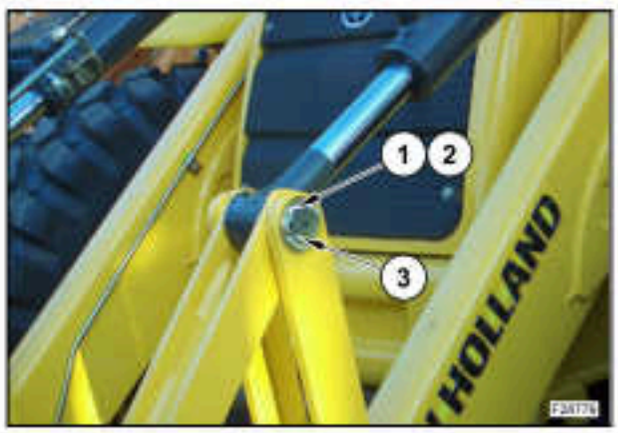
Cap or plug all exposed openings.



Support the bucket linkage and rods.

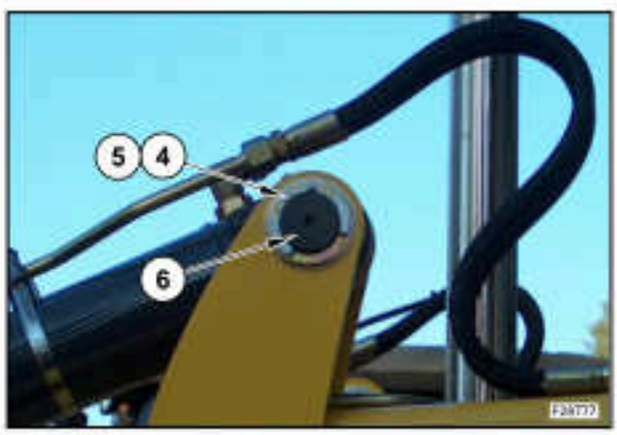
Remove the snap ring (1) and the spacer (2).

Hammer to slide out the pin (3).



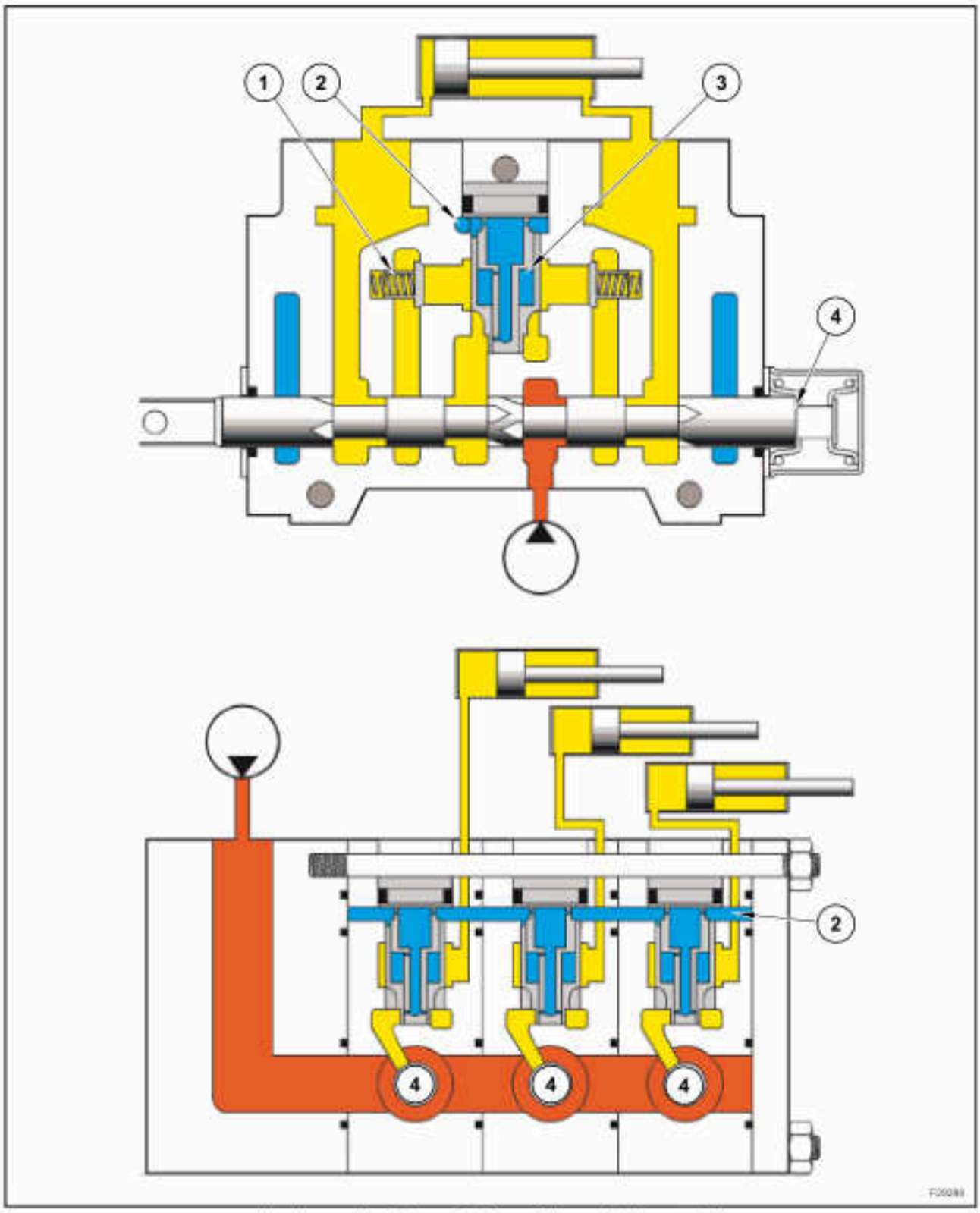
Remove the stop ring (4) and the shim (5).

Hammer to slide out the pin (6).



Remove the loader bucket cylinder.

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Load sensing flow sharing - All spools in neutral

Pump pressure

Return to oil tank

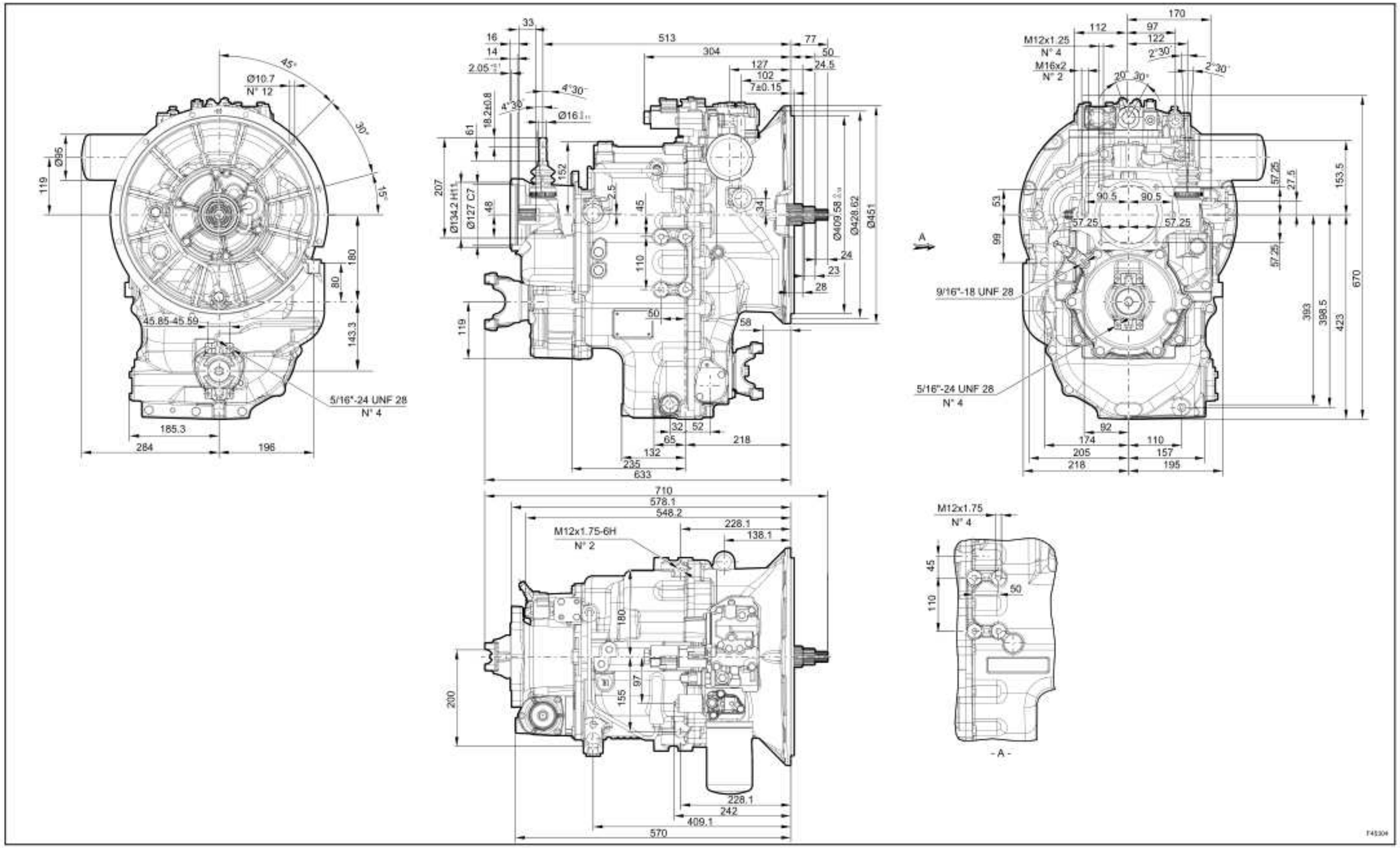
Trapped oil

1. Load non-return check valve
2. Load sense line
3. Pressure compensator
4. Spool

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DIMENSIONS

4WD



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