SERVICE MANUAL

B90B / B95B / B95BLR
B95BTC / B110B / B115B
TIER 3

BACKHOE LOADER

Print No. 87643850B

NEW HOLLAND CONSTRUCTION

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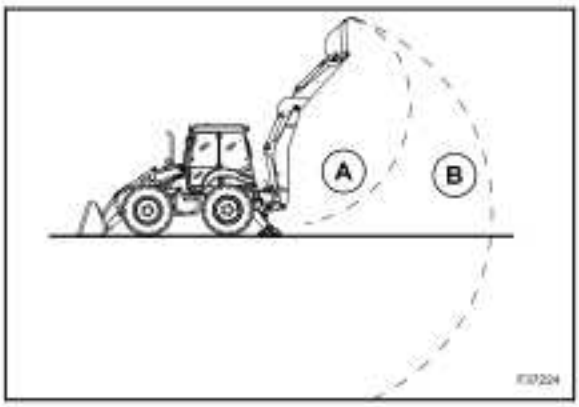
5.2 LIFTING CAPACITY - MODELS B115B

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.



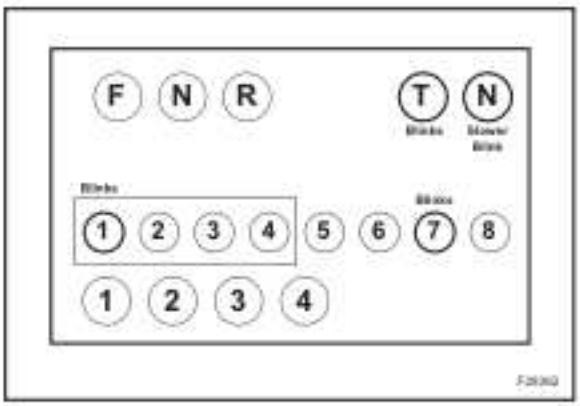
Dipper		Telescopic dipper (retracted)		Telescopic dipper (extended)		Height/Depth
Dipper A	Boom B	Dipper A	Boom B	Dipper A	Boom B	m (ft)
					545 (1205)	+5.4 (18)
	1085 (2390)		1005 (2215)		835 (1840)	+4.9 (16)
	1485 (3275)		1385 (3050)	1500 (3305)	975 (2150)	+4.3 (14)
2620 (5775)	1625 (3580)	2425 (5610)	1510 (3330)	1600 (3525)	1050 (2315)	+3.6 (12)
2560 (5645)	1660 (3660)	2450 (5400)	1540 (3395)	1615 (3560)	1090 (2400)	+3,0 (10)
2620 (5775)	1660 (3660)	2505 (5525)	1535 (3385)	1640 (3615)	1105 (2435)	+2.4 (8)
2875 (6340)	1645 (3625)	2750 (6065)	1515 (3340)	1730 (3815)	1115 (2460)	+1.8 (6)
3700 (8155)	1620 (3570)	3550 (7825)	1490 (3285)	1870 (4120)	1120 (2470)	+1.2 (4)
6280 (13845)	1600 (3525)	6075 (13395)	1460 (3220)	2120 (4675)	1120 (2470)	+0.6 (2)
	1575 (3475)		1435 (3165)	3660 (8070)	1115 (2460)	0 (ground)
	1555 (3430)		1410 (3110)	5745 (12665)	1115 (2460)	-0.6 (2)
	1545 (3405)		1400 (3085)		1120 (2470)	-1.2 (4)
	1550 (3415)		1395 (3075)		1125 (2480)	-1.8 (6)
	1580 (3485)		1415 (3120)		1145 (2525)	-2.4 (8)
	1670 (3680)		1500 (3305)		1180 (2600)	-3.0 (10)
	2070 (4565)		1855 (4090)		1250 (2755)	-3.6 (12)
					1430 (3150)	-4.2 (14)
					2230 (4915)	-4.8 (16)

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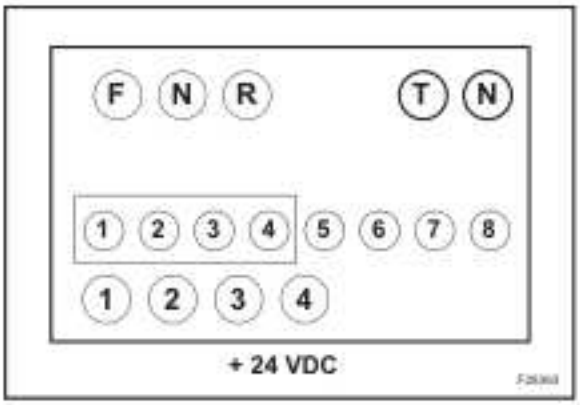
FAULT CODE F4 / BATTERY OVERVOLTAGE (17 V PLUS)

Over voltage
Even power supply levels up to 30V will not damage system components.
Above a power supply of 17 V DC:
Group Fault 1 - Fault code 7.

NOTE: the speed sensor system will not operate when an over voltage is present.

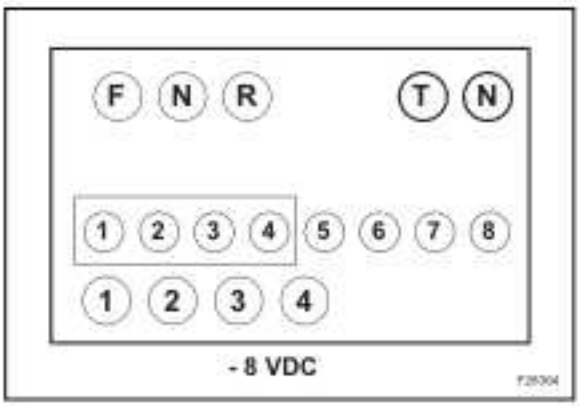


Above a power supply of 24 V DC:
the analogue signals are not reliable to convert any more.
Over voltage: when the voltage exceeds 17 V DC.
Action of the Microprocessor:
- no upshifts above 2nd gear
- direction change while in Forward 3 or Forward 4: the actual reversal is preceded by a downshift sequence until 2nd gear is obtained.



- brake switch activation always engages four wheel drive.

NOTE: voltages below 8 V DC the microprocessor enters the reset mode.



Intermittent power loss
After power is restored, the microprocessor goes through the reset mode.

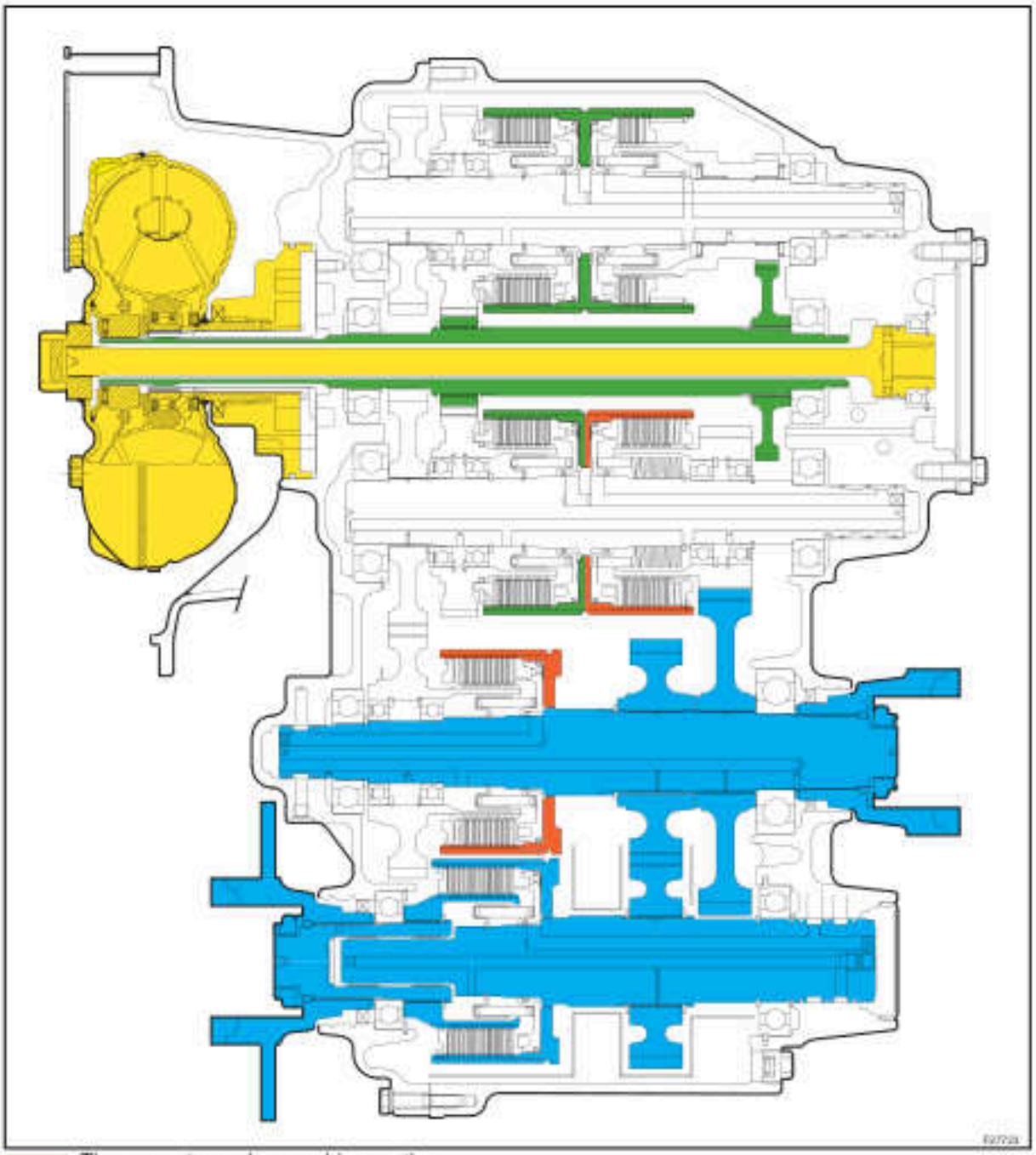
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6.6 FAULT FINDING

PROBLEM	CAUSE	ACTION
Not recharged	Recharge circuit cut out (warning light, fuse, connector, etc.	Check the connections of recharge circuit, clean and tighten the alternator and battery tags.
	Voltage regulator inefficient	Replace the part.
	Rotor winding cut out	Replace the part.
	Worn brushes	Replace the part.
Recharge insufficient	Slackened fan belt	Supply correct voltage.
	Voltage regulator faulty	Replace the part.
	Excessive wear of rotor rings or brushes	Replace the part.
	Diodes short-circuited	Replace the part.
	Stator windings or rotor winding short-circuited	Replace the part.
Excessive recharge	Circuit connections loosen	Check the connections of battery terminals and tag blocks starter and alternator.
	Voltage regulator inefficient	Replace the part
	Ground connection fault	Check connections for leakages.

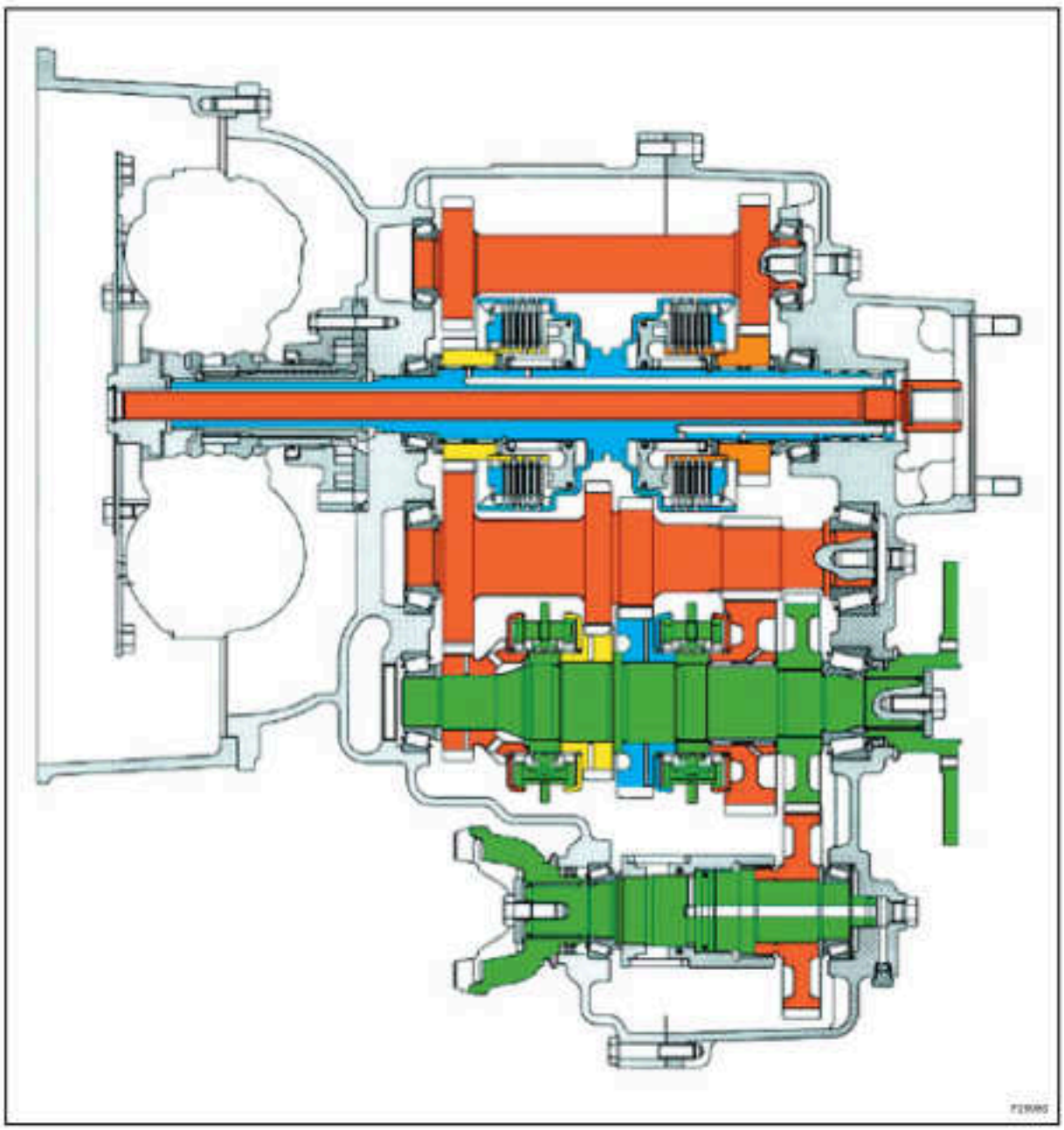
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Basically the transmission is composed of five main assemblies:



The converter and pump drive section.
The input or directional clutches.
The range clutches.
The output section.

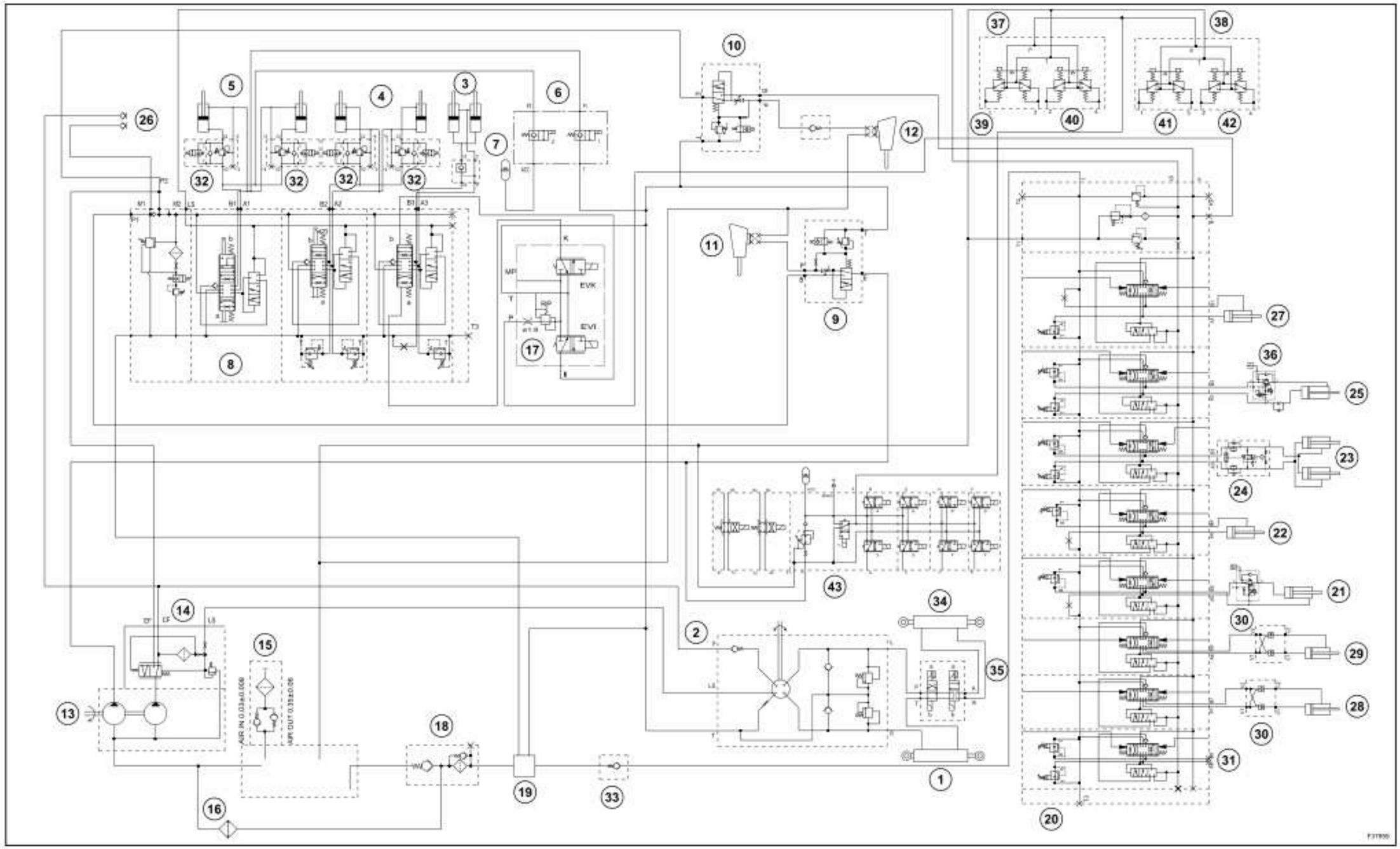
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Input
Intermediate
Output

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1.6 HYDRAULIC DIAGRAM - 4WS PILOT MODELS CENTER PIVOT - B115B



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