Manual No.:KM-3540DE
Vol. No. :T3540DE-00

350D and 400D Articulated Dump Truck Operation and Tests

TECHNICAL MANUAL
350D and 400D Articulated Dump

Sarvice Manual (Manual No. KM-3540DE) consists of the following two separated volumes;

Technical Manual	: vol. No. T3540DE
Workshop Manual	: vol. No. W3540DE

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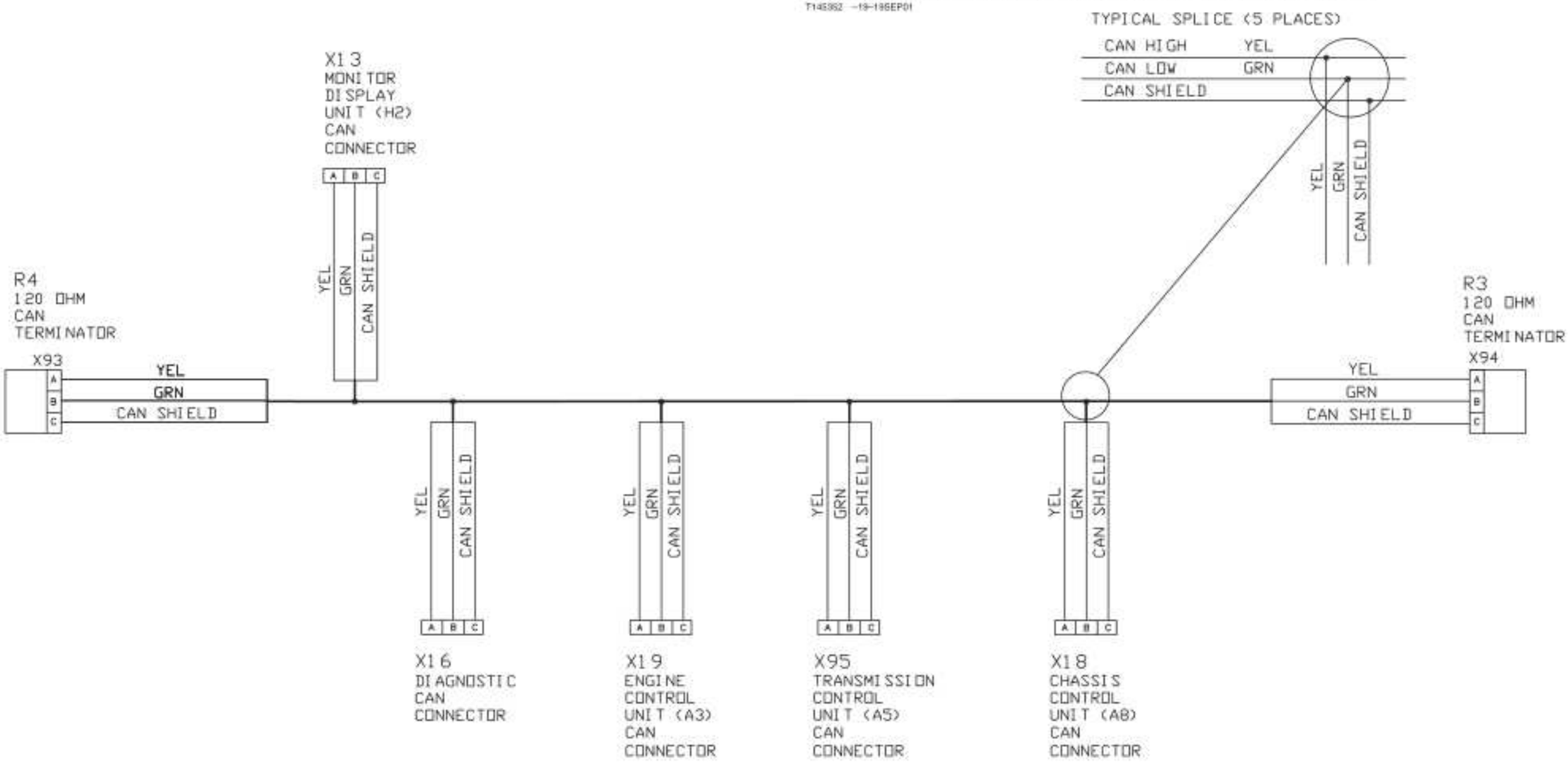
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Controller Area Network (CAN) Harness (W11) Wiring Diagram

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Controller Area Network (CAN) Harness (W11) Component Location

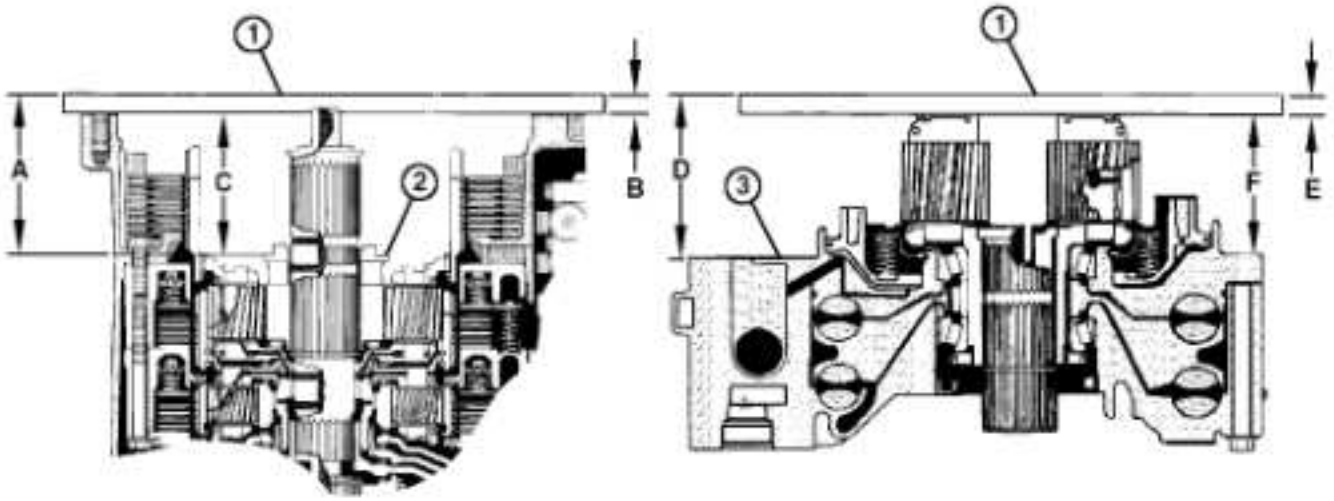
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Symptom	Problem	Solution
Service Brake Pads and Disks Wearing Excessively	Driving technique—constantly using service brakes to slow machine	Allow exhaust brake to slow machine.
	Exhaust brake	Check exhaust brake circuit operation. See Pneumatic Circuit. (See Group 9022-05.)
	Service brake valve	Spools sticking or binding in valve housing. Repair or replace Brake Valve (See Group 1060.)
	Restriction in service brake valve return lines	Check return lines and hydraulic reservoir return manifold for restriction.
Time between Brake Accumulator Charging Cycles Too Short	Brake accumulators	Gas charge pressure in brake accumulators too low. Check accumulator operation. Do Brake Low Pressure Switch and Brake Accumulator Test. (See Group 9025-25.)

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Main Shaft Shim Measurement

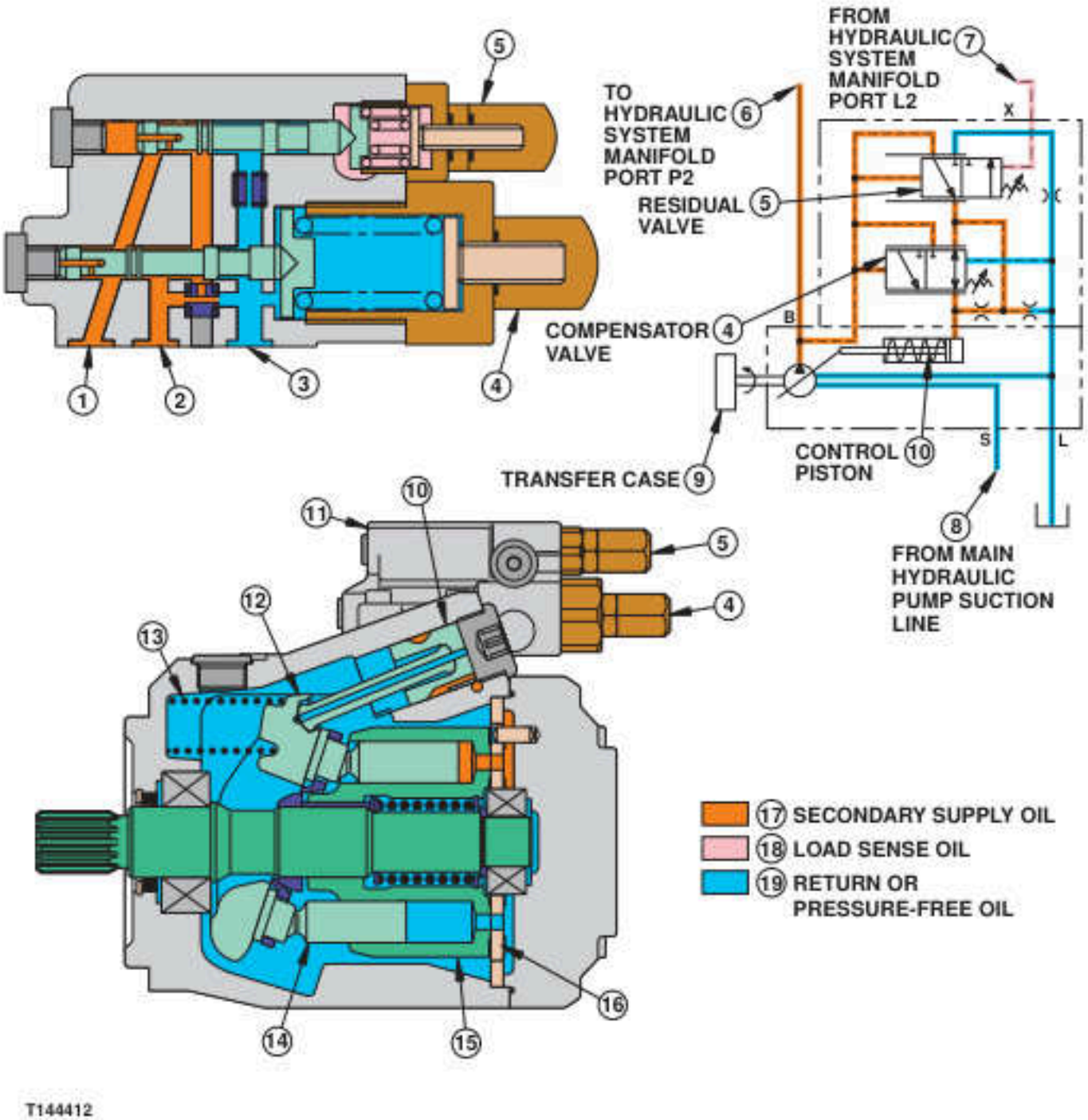
1—Straightedge
2—Bearing and Shim Removed
3—Gasket Installed
A—Top of Straightedge to Shim Dimension
B—Thickness of Straightedge
C—A Minus B Dimension
D—P3 to Retarder Gasket Dimension
E—Thickness of Straightedge Dimension
F—D Minus E Dimension

18. Place a straightedge (1) across retarder housing mounting surface of main housing.
19. Measure dimension (A), from top of straightedge (1) to shim thrust surface on main shaft bearing spacer (2).
20. Measure dimension (B), thickness of straightedge.
21. Subtract dimension (B) from dimension (A)—this is dimension (C).
22. Place retarder housing on bench, output end down.
23. Install new gasket on mounting surface (3).
24. Place a straightedge (1) across P3 planetary carrier.
25. Measure dimension (D).
26. Measure dimension (E).
27. Subtract dimension (E) from dimension (D)—this is dimension (F).
28. Subtract dimension (C) from dimension (F)—this is dimension (G).
29. Use dimension (G) and table for correct shim thrust bearing.

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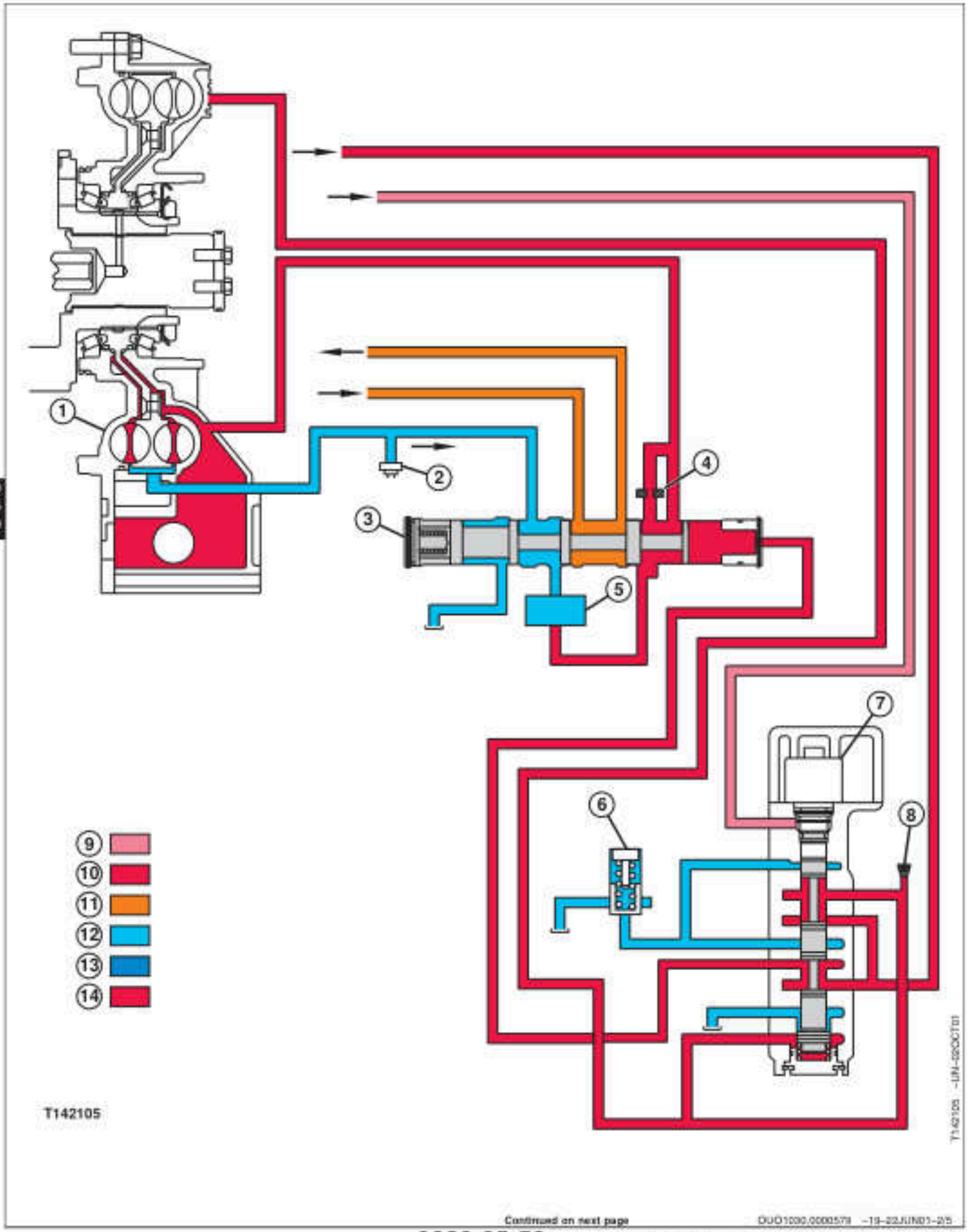
Secondary Steering Pump Operation



Secondary Steering Hydraulic Pump

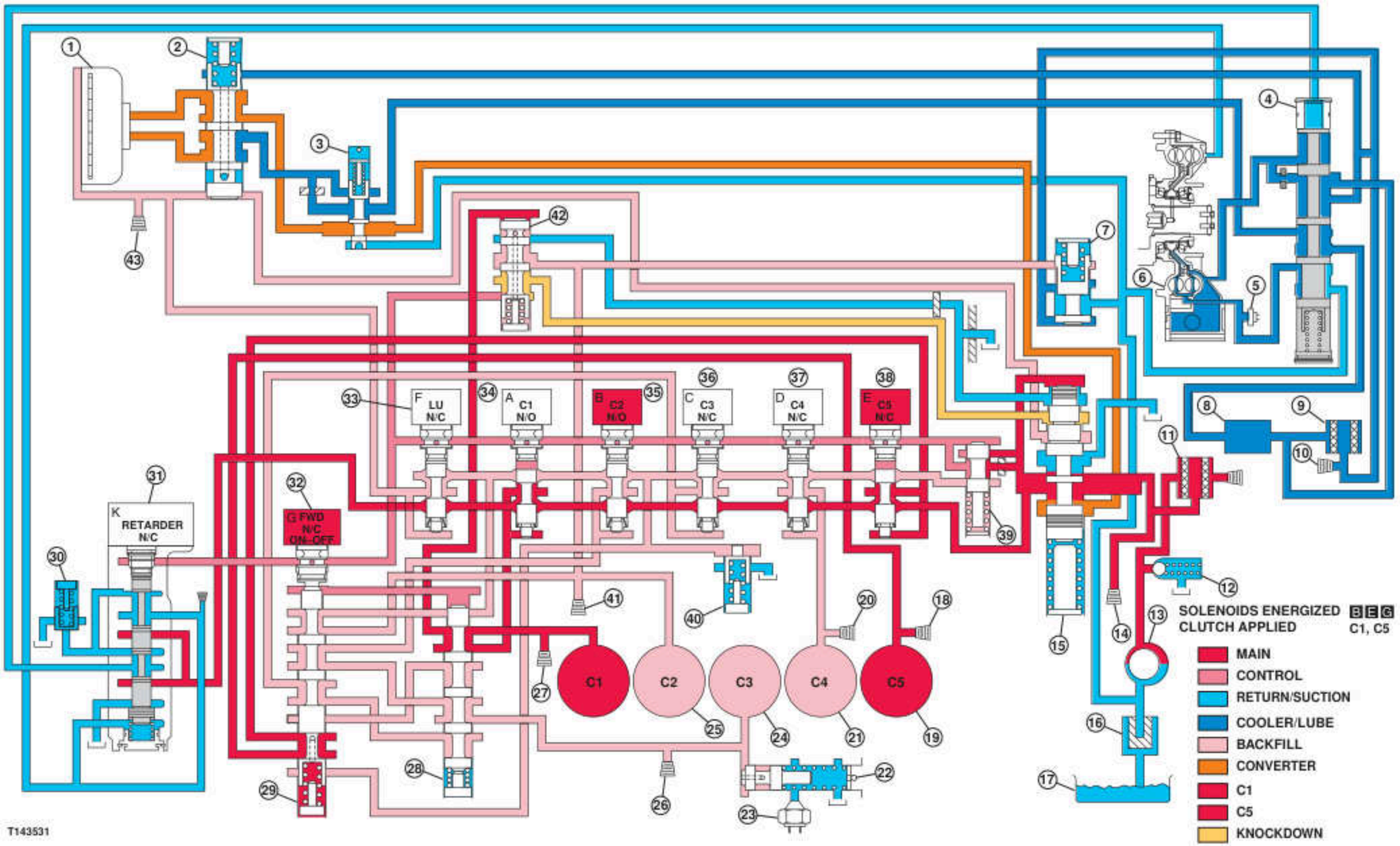
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