Magnum 180
Magnum 200
Magnum 220
Magnum 240

Continuously Variable Transmission (CVT) Tractor

PIN ZERH02500 and above

SERVICE MANUAL

Part number 47674198
1st edition English
March 2014

CASE IH AGRICULTURE

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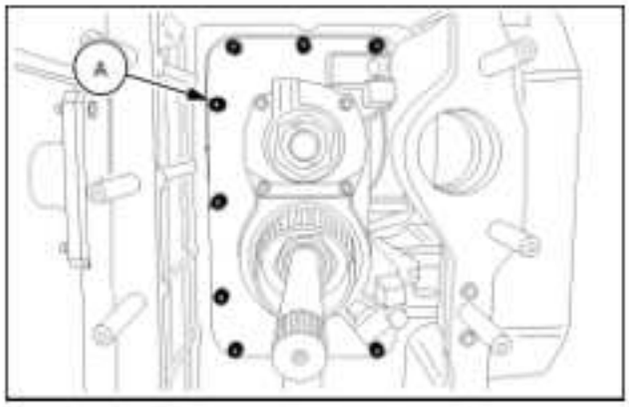
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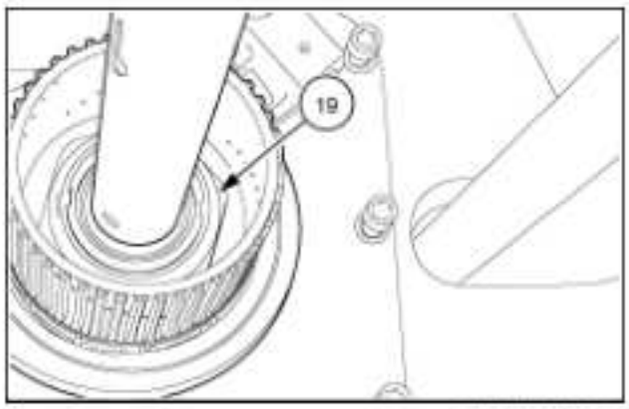
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4. Install the mounting bolts **(A)** removed earlier and torque the bolts to **49 Nm** (**36 lb ft**).



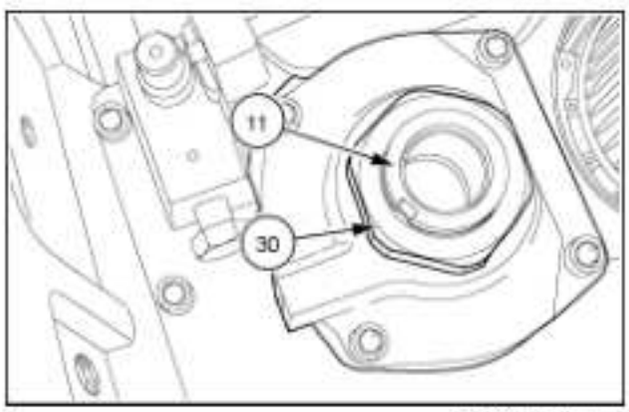
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5. Block the gears. Remove the nut **(19)**. Apply **LOCTITE® 243** to the threads of the output sleeve shaft **(3)** Reinstall the nut, and using special tool **380200084** tighten to **490 - 525 Nm** (**361 - 387 lb ft**).



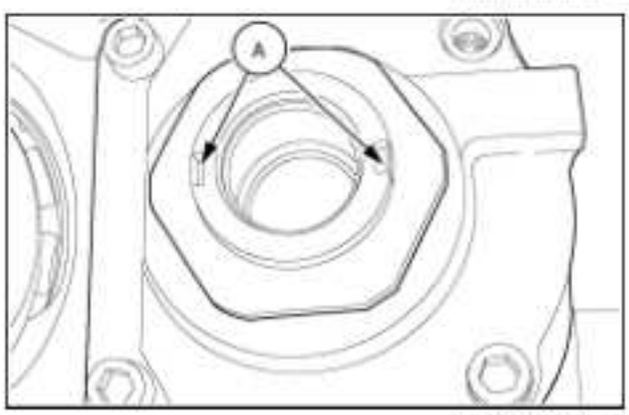
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6. Screw the nut **(30)** on the input sleeve shaft **(11)**. Using a **70 mm** socket, tighten to **490 - 525 Nm** (**361 - 387 lb ft**).



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7. Use a punch to stake the nut in two places **(A)**.



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Connector **X-008F**	Outside cab harness
Connector **X-008M**	Main cab harness
Connector **X-010F**	Outside cab harness
Connector **X-010M**	Main cab harness
Connector **X-020F**	Outside cab harness
Connector **X-020M**	Right hand fender harness
Connector **X-021F**	Outside cab harness
Connector **X-021M**	Right hand fender harness
Connector **X-025F**	Rear frame harness
Connector **X-025M**	Main cab harness
Connector **X-058**	Tractor Control Unit (TCU) – CN2B
Connector **X-353**	Tractor Control Unit (TCU) – CN2A
Connector **X-399**	Left hand remote link/EHR switch
Connector **X-400**	Left hand remote Power Take-Off (PTO) switch
Connector **X-401**	Right hand remote link/EHR switch
Connector **X-402**	Right hand remote Power Take-Off (PTO) switch
Connector **X-1020F**	Rear frame harness
Connector **X-1020M**	Left hand fender harness
Connector **X-1021F**	Rear frame harness
Connector **X-1021M**	Fender switch harness

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5. Remove and replace the transmission oil pressure sensor.

   Clear all active error codes, and test operation.

   A. Error code does not redisplay. Return the unit to field operation.

   B. Error code redisplays. Continue to step **6**.

6. Download the current software into the tractor control unit.

   Clear all active error codes, and test operation.

   A. Error code does not redisplay. Return the unit to field operation.

   B. Error code redisplays. Remove and replace the controller.

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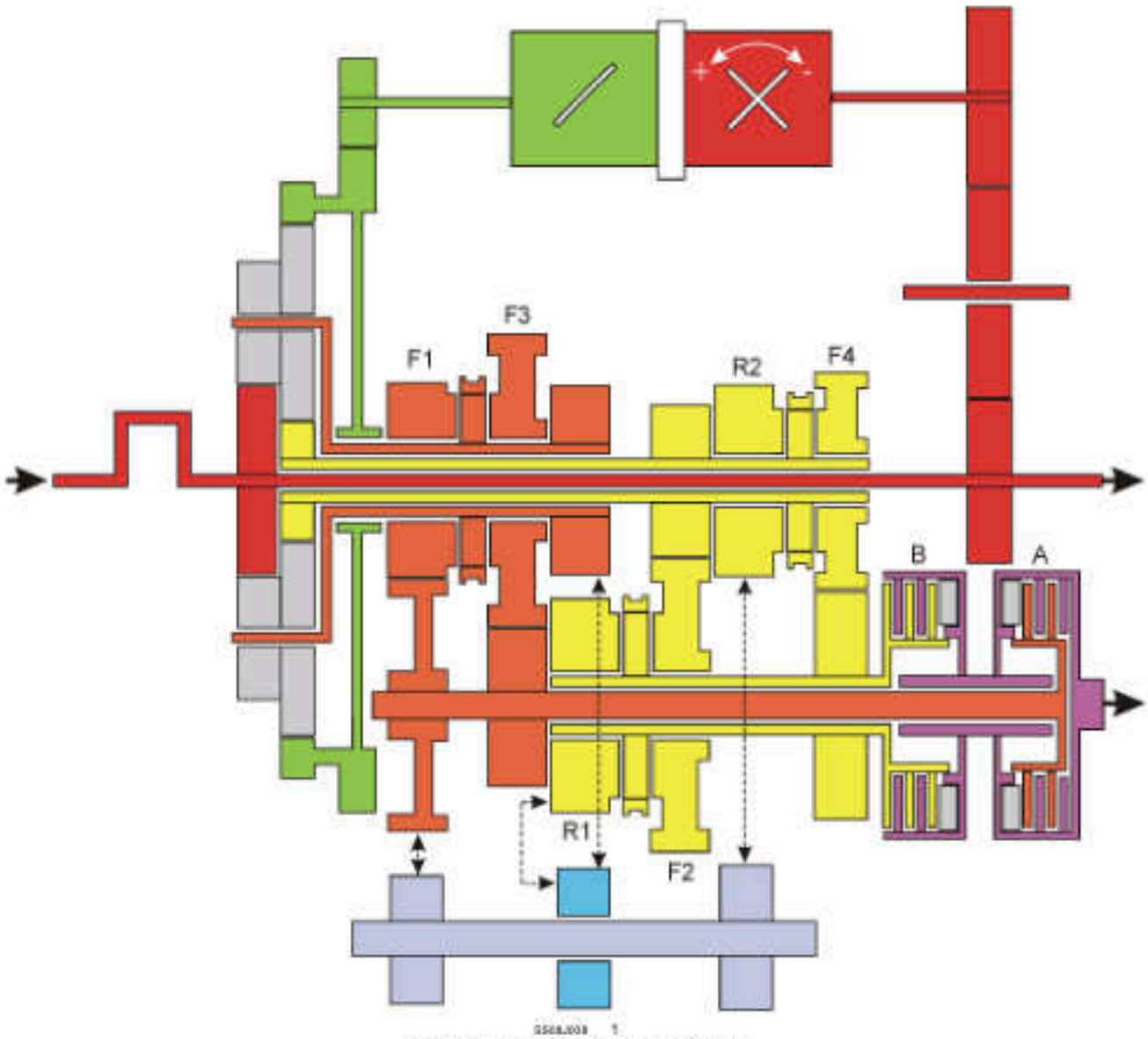
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Continuously Variable Transmission (CVT) - Functional diagram

The following diagrams show the power flow of the transmission in the individual mechanical gears and in the stationary control (powered zero) and neutral position/park position operating modes.

Color coding

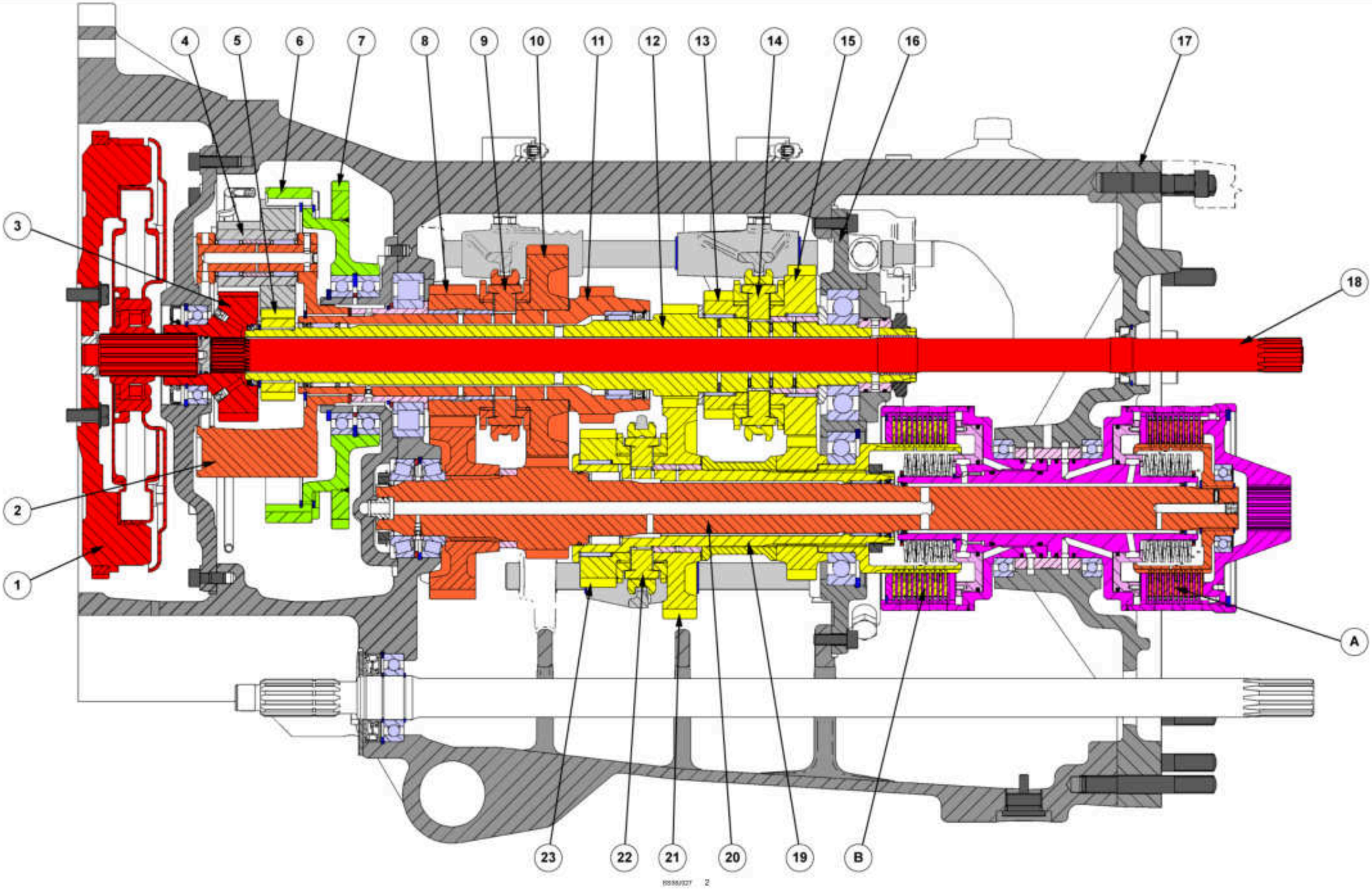
Transmission input and hydrostat drive	Hydrostat output - ring gear summing planetary gears
Power train summing planetary gear/planetary carrier - clutch A	Power train summing planetary gear/sun gear - clutch B
Power flow	



Neutral position/park position

In the neutral position and the park position the transmission is not engaged. No mechanical gear is engaged and the clutches A/B are open. If the tractor rolls off inadvertently in the neutral position, the speed differences arising as a result are equalized by the hydrostat. This means that when shifting out of the neutral position the relevant gear can be engaged again at the synchronous speed.

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