SERVICE MANUAL

T6.125 / T6.145 / T6.155 / T6.165 / T6.175 / T6.160 / T6.180
T6.145 Dynamic Command
T6.155 Dynamic Command
T6.165 Dynamic Command
T6.175 Dynamic Command
T6.180 Dynamic Command
T6.145 AutoCommand™
T6.155 AutoCommand™
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T6.175 AutoCommand™
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Tractor - STAGE IV

*PIN HACT61***HEG01001 and above*

Part number 51666744

English

January 2020

NEW HOLLAND AGRICULTURE

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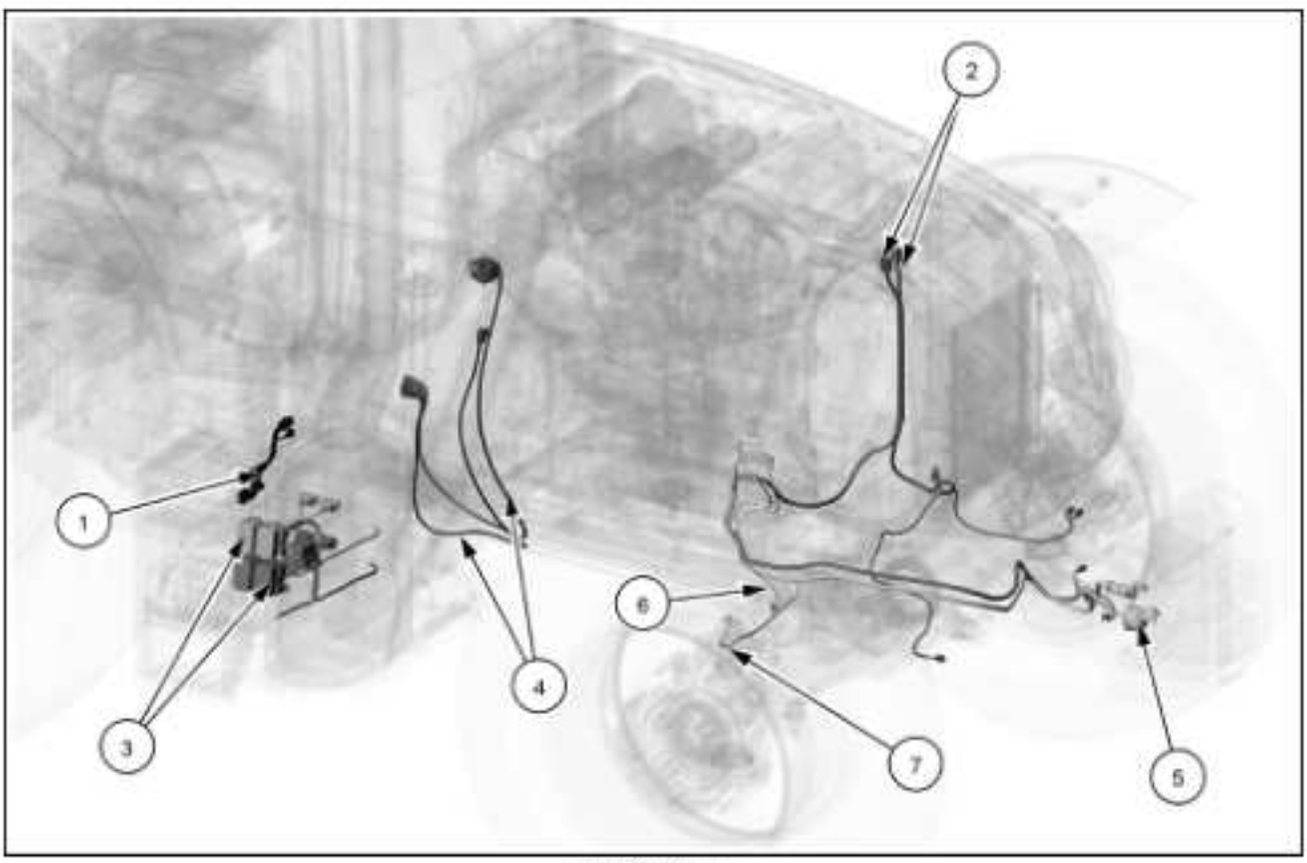
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Harnesses and connectors - Overview - Connected to Engine wiring harness

T6.145 AutoCommand™ Sidewinder II - TIER 4B (FINAL) and STAGE IV (Mother Regulation) [HACT6145*HEG01001 -]	WE
T6.145 Dynamic Command Sidewinder II - TIER 4B (FINAL) and STAGE IV (Mother Regulation) [HACT6145*HEG01001 -]	WE
T6.155 AutoCommand™ Sidewinder II - TIER 4B (FINAL) and STAGE IV (Mother Regulation) [HACT6155*HEG01001 -]	WE
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T6.175 AutoCommand™ Sidewinder II - TIER 4B (FINAL) and STAGE IV (Mother Regulation) [HACT6175*HEG01001 -]	WE
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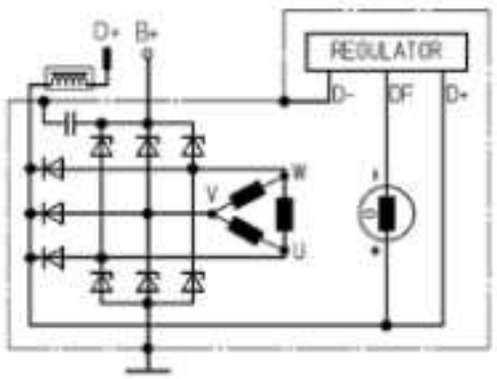
	Description	Information
1	Denox right-hand	**Harnesses and connectors - Component localization 40 - Denox right-hand T4B wiring harness (55.100)**
2	Front hitch and front Power Take-Off (PTO)	**Harnesses and connectors - Component localization 27 - Front hitch and front Power Take-Off (PTO) APH wiring harness (55.100) Harnesses and connectors - Component localization 27 - Front hitch and front Power Take-Off (PTO) APH Super steer wiring harness (55.100)**

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Alternator - Torque

	Value
Pulley Retaining Nut	**80 Nm (59.0 lb ft)**
Terminal Nut - B+	**12 Nm (8.9 lb ft)**
Terminal Nut - D+	**3.5 Nm (2.6 lb ft)**
Mounting Bolts	**25 Nm (18.4 lb ft)**

Alternator - Technical Data





	Description
1	D+ connection
2	B+ connection

Technical data 150 A version	
Nominal voltage	**14 V**
Nominal current	**150 A**
Excitation (field) winding resistance at **20 °C (68 °F)**	**2.85 +/- 0.10 Ω**
Max. rotational speed continuous / short time (max **15 min**)	**13000 RPM / 15000 RPM**
Operating (storage) temperature range	**-40 – 110 °C (-40 – 230 °F) (130 °C (266 °F))**

Technical data 200 A version	
Nominal voltage	**14 V**
Nominal current	**200 A**
Excitation (field) winding resistance at **20 °C (68 °F)**	**2.90 +/- 0.10 Ω**
Max. rotational speed continuous / short time (max **15 min**)	**15000 RPM / 18000 RPM**
Operating (storage) temperature range	**-40 – 110 °C (-40 – 230 °F) (130 °C (266 °F))**

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3. Clear the fault code using either the on board HH menu or approved diagnostic equipment. Turn the ignition switch OFF, wait for 5 seconds and then turn the ignition switch ON. Operate the system and check for the fault code.

   A. If the fault code is not displayed, check that the system is operating correctly.

   B. If the error code is displayed, go to step **4**.

4. Check for an open circuit on the CAN BUS.

   Turn the starter switch OFF.

   Disconnect the EPL connector **X-745C**.

   Check between connector:

   X-030 pin C, wire CM-191FZ (YE) and **X-745C (Receptacle) pin C2**, wire CM-191DZ (YE).

   X-030 pin D, wire CM-190FZ (GN) and **X-745C (Receptacle) pin C3**, wire CM-190DZ (GN).

   A. if an open circuit is found, repair or replace the wiring harness as necessary.

   B. If the wiring harness is in good condition, go to step **5**.

5. Use the H8 menu in the XA module to clear the EPL memory; refer to **Electronic park lock actuator/controller - H8 - Clear stored calibration information (EEPROM) (55.031)**. Use the H3 menu in the XA module to re-enable the EPL; refer to **Electronic park lock actuator/controller - H3 - Configurations and options (55.031)**. Re-calibrate the EPL; refer to **Electronic park lock actuator/controller - H1 - Calibration procedures (55.031)**. Operate the system and check for the fault code.

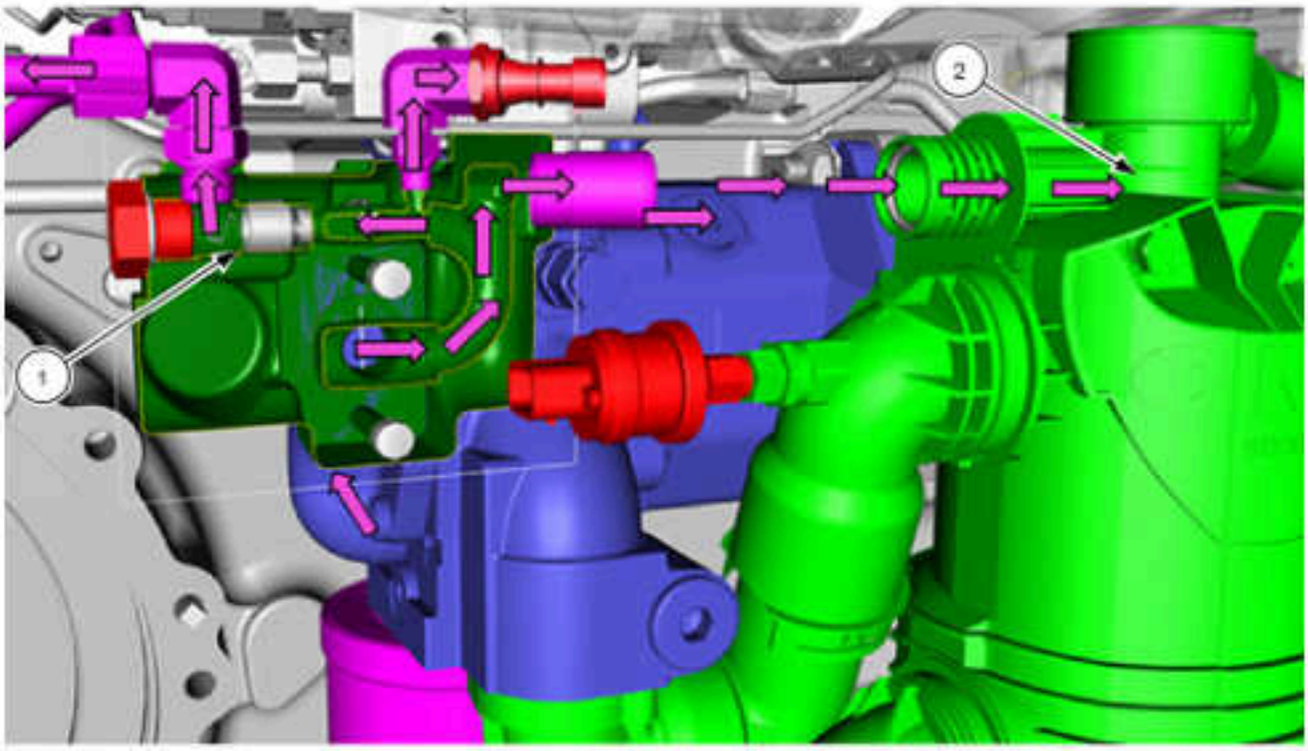
   A. If the fault code is not displayed, check that the system is operating correctly.

   B. If the fault code is indicated or if it is not possible to calibrate the system, us the approved diagnostics equipment and check the CAN BUS to identify which control unit has generated the CAN error message.

Wiring harnesses - Electrical schematic sheet 79 (55.100)

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Excess flow of charge pump



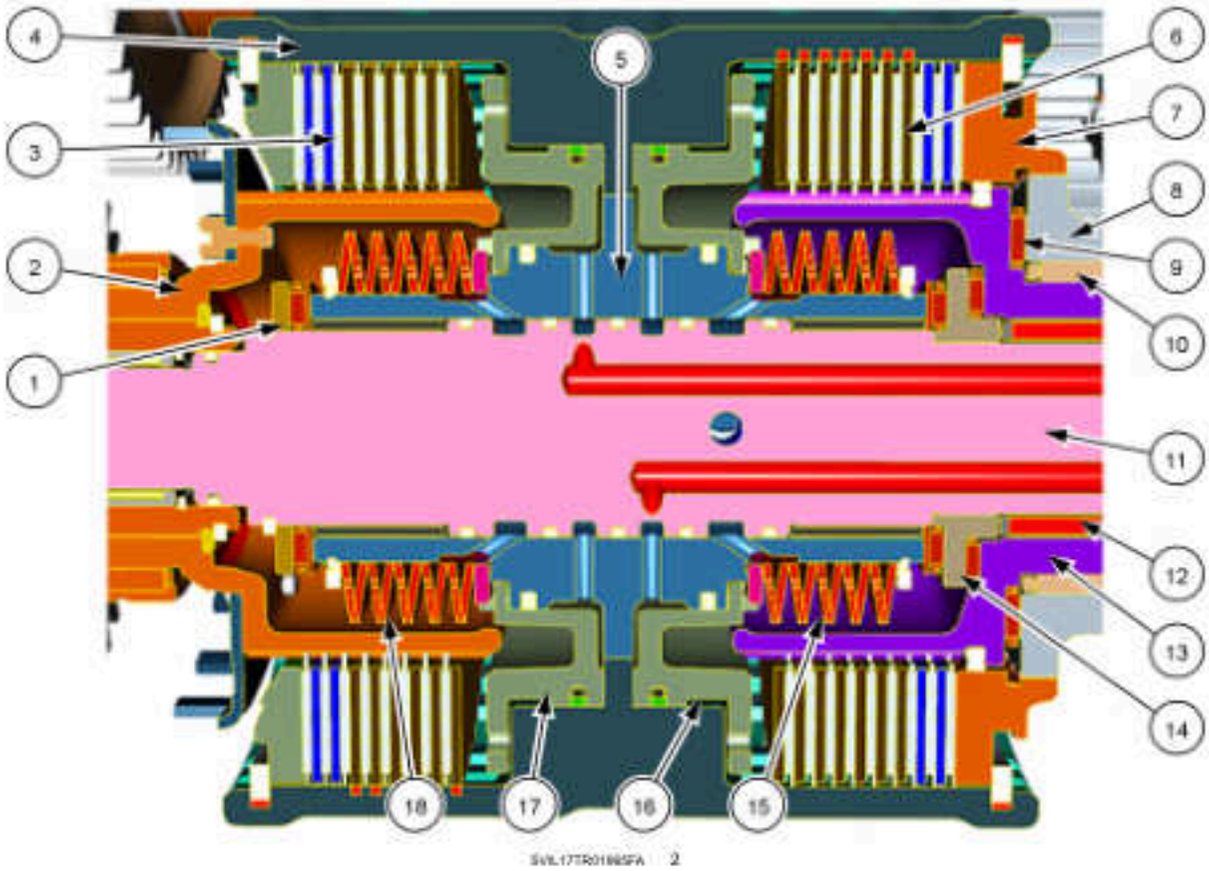
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Item	Description	Information
1	Rear axle brake cooling valve	**1 bar (14.5 psi)**
2	Charge pressure relief valve	**3 bar (44 psi)**

Excess flow of the charge pump flows to the rear axle brake (cooling) via the rear axle brake cooling valve **(1)**. The other part of the excess flow runs back into the suction filter via the charge pressure relief valve **(2)**.

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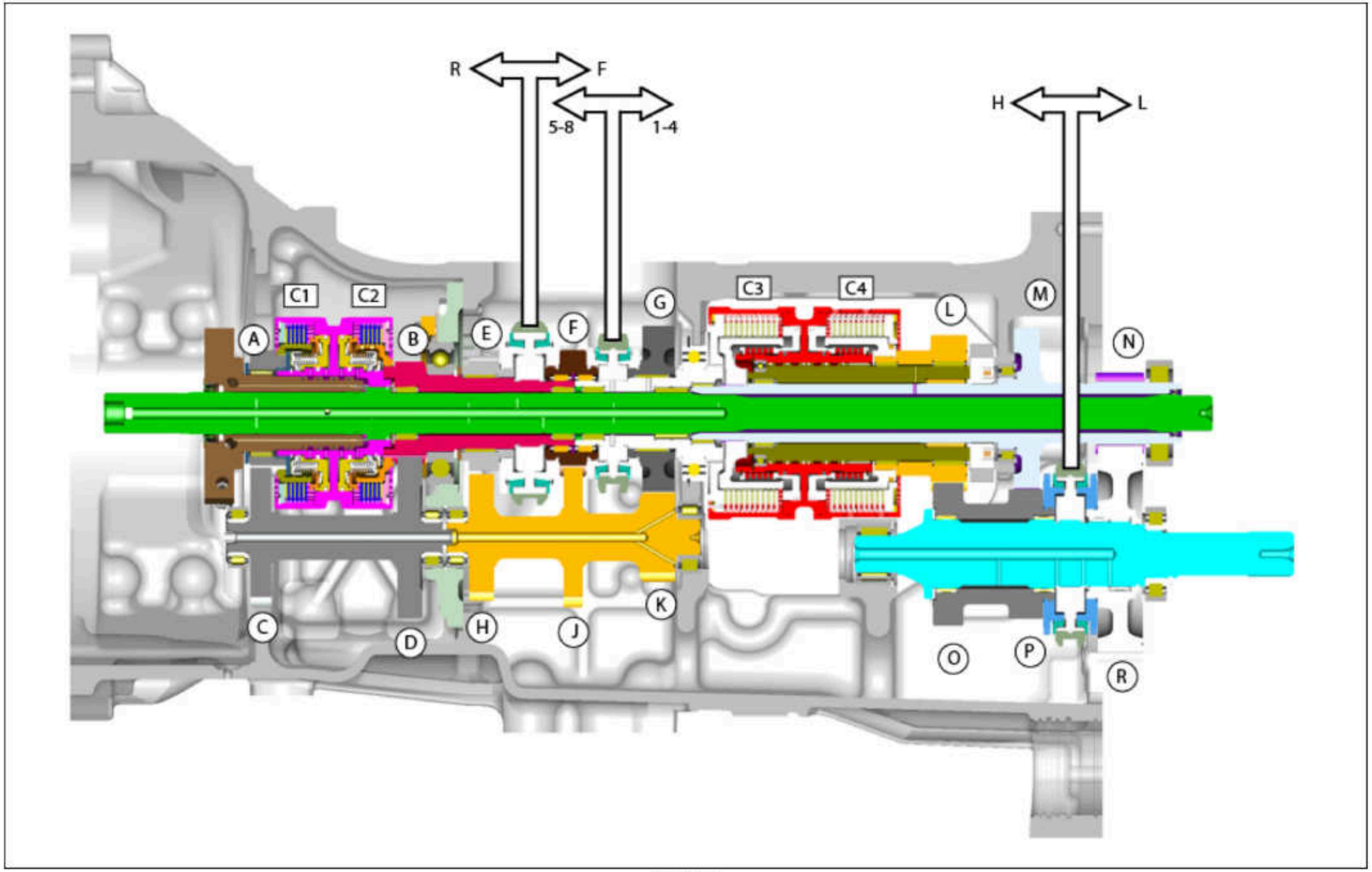
Forward clutch and even clutch



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Item	Description	Item	Description
1	Axial needle roller bearing	10	Needle roller bearing
2	Even shaft (drive output)	11	Even shaft
3	Even clutch EVEN	12	Needle roller bearing
4	Clutch housing	13	Hollow shaft (drive input)
5	Sleeve (hydraulic supply)	14	Supporting ring
6	Forward clutch FWD	15	Spring package
7	Hub	16	Piston for forward clutch
8	Drive gear (clutch housing)	17	Piston for even clutch
9	Axial needle roller bearing	18	Spring package

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