

SIL 06-WT-18
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SUBJECT: C5 Clutch Pressure Limiting Logic

MODELS AFFECTED: 3000, 4000, B300, B400, xFE, B500, and Related T Models

Introduction:

As a continuous product improvement, beginning with software level C171, control logic was implemented to reduce C5 clutch pressure under certain conditions. When C5 clutch pressure reduction logic is active, a difference greater than 15 psi (100 kPa), between Main and C5 clutch pressure is possible. Reduction of C5 clutch pressure is not lower than the stated minimum clutch pressure values published in the associated Troubleshooting Manual.

C5 clutch pressure is limited:

- When **N** (Neutral) is attained
- After full attainment of 1st range

C5 clutch pressure is not limited:

- When **R** (Reverse) is attained
- Prior to full attainment of 1st range
- When Trans Fluid Temp is less than or equal to 0° C (32° F)

Currently, when utilizing Allison DOC® to perform a clutch test and selecting “full main pressure” while in clutch test mode, C5 clutch pressure reduction logic remains active and is not disabled.

When measuring Main and C5 clutch pressure, exit Allison DOC® clutch test mode and select **R** (Reverse) range with the vehicle shift selector. This ensures the C5 clutch circuit pressure is not limited.

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