Split Shaft PTO

Guidelines

- Split shaft PTOs are PTOs mounted to the output of the transmission via a split shaft gearbox that allows the rear driveshaft to be disengaged for stationary use.
- Split shaft PTO mode allows the engine/transmission to deliver power locked in 4th (1 to 1) or 5th(0.77 to 1) gear and avoid setting faults caused when the rear axle is disconnected. The gear is selected through cluster PTO menu screen. ***New for 2019.***
- 2014 and later trucks with a build date of 10/8/2013 have the capability to use Split Shaft PTO. **Diesel only.**
- The final stage manufacturer is responsible for ensuring the modifications to the driveline to accommodate the split shaft unit do not compromise the durability of the vehicle or cause driveline vibration issues.

Operation

- To enable split shaft PTO you must enter the commercial screen under the Settings menu on the EVIC screen. See the **PTO Programming Menu** for further details.
- **Note: Split Shaft PTO must be run only in 4x2 mode only on 4x4 vehicles.**
- Split shaft allows the use of Standard and Remote PTO mode.
- Split shaft mode runs between 1200 RPM to 2400 RPM. The transmission torque converter locks up at 1200 RPM and allows for a 100 RPM drop while holding the torque converter locked.
- The split shaft must have a ground switch connected to VISM circuit W544 (see VISM section). The grounding of this circuit in the correct sequence allows the vehicle to enter Split Shaft PTO mode.

Enable Procedure

1. Start engine
2. Apply Park Brake (the Engine Controller must see the park brake signal)
3. Place transmission in Neutral.
4. Disengage the rear axle via the split shaft unit. It is preferable that this function have a ground signal that confirms this operation and is connected to circuit W544. **Note: Circuit W544 must see a ground signal before engaging the PTO in step 5.**

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5. Press the in cab PTO switch.
6. Without stepping on the brake pedal, move the transmission from neutral to drive.

Disable Instructions

- Follow the above steps in reverse to return to vehicle drive mode.
- The PTO may be turned off at any time by pressing the PTO in cab switch.
- To avoid transmission or PTO mechanical 'clash' issues, the engine should be turned off before reengaging the rear axle and putting the vehicle in park.

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