

Parker Chelsea 524 Series for Detroit DT12

Parker Chelsea announcing an additional application for our 524 Series Rear Mount Power Take-Off. We are excited to now support Daimler/Detroit's DT12 12 speed automated manual transmission.

This transmission is available on Freightliner and Western Star applications. Models of the DT12 are divided into the "Highway" and "Highway Efficiency" platforms. With multiple transmission models, we have included *Table 1*, which outlines PTO availability and Chelsea Application Page by transmission model code (and the transmission tag). Our 524 Series offers the following features:

- 3 Internal Ratios ranging from 1:1 to 1:1.8
- Furnished DT12 specific input adapter (PN 330003X) when ordering the "DD" input option (*Figure 1*)
- 3 Output Options including direct mount pump (DIN 5462 and SAE B) and 1410 companion flange



Figure 1 – 524 Series PTO w/ "DD" input

Notes:

- With the launch of Detroit's DT12 "Highway Efficiency" platform, there slight installation difference between it and the "Highway" versions. "Highway" series transmissions (DT12-OH, -DH, -OHL, and -DHL) will utilizes a supplied shim kit to ensure proper working conditions of the gearbox lube pump (instructions provided in HY25-1501D-M1).
- **Rear mount provisions must be ordered from factory and enabled for the chassis.**
- Detroit will offer Side Mount capability in MY2022 trucks. Chelsea will provide additional announcements at launch.
- Application page speeds are listed in High Split Mode. Low Split multiplier is provided for each page in notes section.

Documents Included:

- Mercedes/Daimler/Detroit (M/B) Application Section Preview. Application data also can be found on our online application guide (available on the parker.com/chelsea homepage).

If you have questions about this bulletin or other technical questions, contact us at:

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Daimler Transmission Model Code	Detroit Transmission Tag	PTO Aperture(s)	Parker Chelsea Application Page
DT12-OH	DT12-OA	Rear ¹	M/B-10
DT12-DH	DT12-DA	Rear ¹	M/B-11
DT12-OHL	DT12-OB	Rear ¹	M/B-10
DT12-DHL	DT12-DB	Rear ¹	M/B-11
DT12-OHE	DT12-OC	Rear ¹ and Side ^{2,3}	M/B-13
DT12-DHE	DT12-DC	Rear ¹ and Side ^{2,3}	M/B-14

- ¹ - Rear mount provisions must be ordered from factory & enabled for chassis.
- ² - Side mount provisions must be ordered (Code TBD) and enabled for chassis.
- ³ - Side mount won't be usable until MY2022. Prior year model trucks may have a side mount aperture, but this is not functional.

Table 1 – DT12 PTO Options

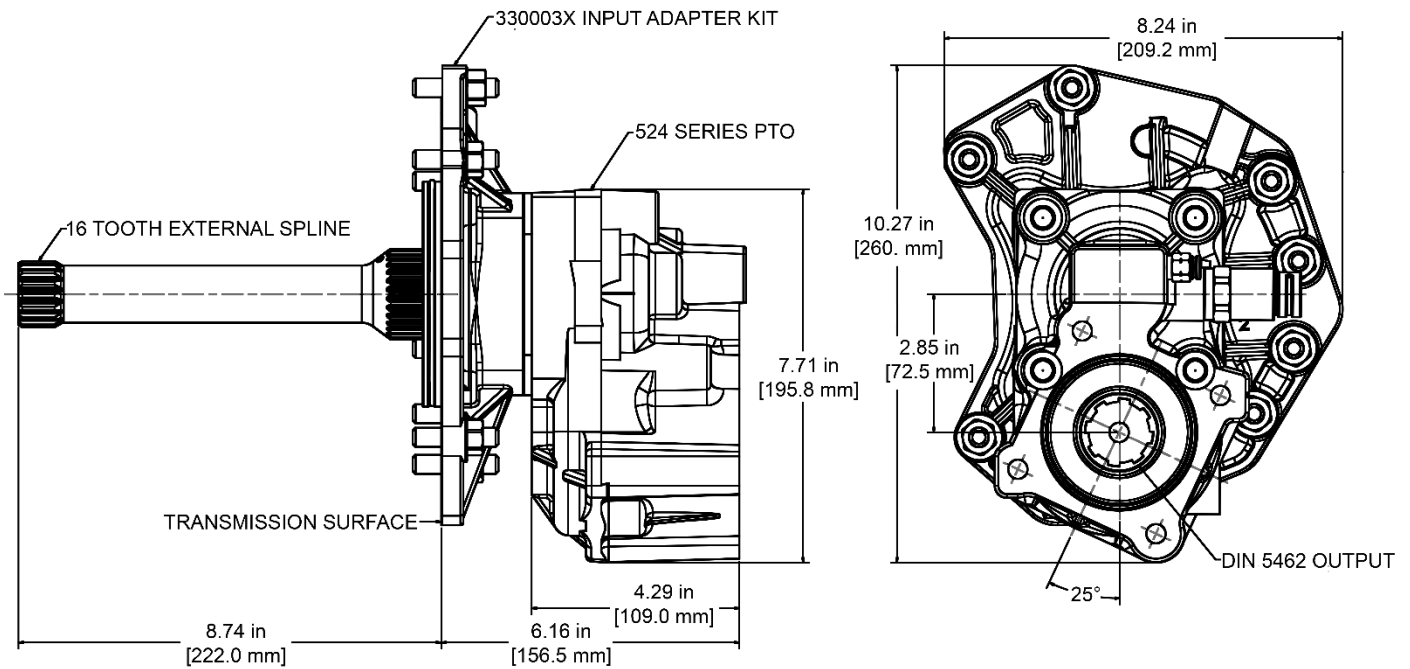


Figure 2 – 524 Series PTO and “DD” input Assembly dimensions