

TO: Service Locations

FROM: Service Systems Development

SUBJECT: TorcUP™ Non-Impacting Torque Tool

### GENERAL INFORMATION

The Detroit™ special tools group has approved the use of the TorcUP™ Raptor RPDD-1000 non- impacting torque tool for use on the installation and removal of the main bearing caps, cylinder head bolts, and flywheel bolts for DD platform engines. Additionally, the tool is useful for high torque fasteners on vehicles, such as lug nuts and U-joint leaf spring bolts. The requested torque setting is achieved by adjusting the regulator, and has an accuracy of within  $\pm 5\%$  set torque. All tools and gauges arrive with an ISO-17025 factory certification.



The duration of the torque certification is 12 months. While a more frequent calibration frequency interval can be determined by the end user, it is not recommended to exceed 12 months. The RPDD-1000 can be re-calibrated at one of the many approved facilities across North America.

TorcUP™ designed the Detroit™ socket and cup for more accurate and safer engagement on the bolts of the HDEP engines. Each socket and cup has a reduced height in order to operate

in smaller confines of the vehicle. The custom design incorporates a skirt around the bolt flange which allows the tool to be flush to the engine during operation. The cup placed on the reaction bar does not require indexing while the tool is in use. All these features render the tool easier and safer to use.

## **Detroit Diesel Socket and Cup Design**



### **INSTRUCTIONS**

All user instructions are included in the purchase of Torcup™ tools. Further information can be obtained at [www.torcup.com](http://www.torcup.com).

### **FEATURES**

- Average torque range is 100 – 1000 ft·lbs.
- Faster, safer, and accurate within  $\pm 5\%$  – Manufactured & Assembled in the USA.
- RPDD-1000 is a pistol grip, non-impacting torque tool.
- Filter/Regulator/Lubricator allows for full adjustability within the tool's torque range.
- Ergonomic design – Low noise accessories available for additional applications.

### **REQUIREMENT**

- Air pressure 10-70 psi with a flow rate of 45-55 cubic feet per minute.

### **WARRANTY INFORMATION**

The RPDD-1000 comes with a factory 13-month warranty.

Torcup is responsible for all warranty services; see link below:

[http://www.torcup.com/warranty\\_info.html](http://www.torcup.com/warranty_info.html)

### **ORDERING INSTRUCTIONS**

**This is NOT an essential tool, there are currently no plans to stock it in Canton.**

All purchases are to be placed directly through Torcup™. Detroit™ is not responsible for any

inquiries at this time.

Phone: 1+610-250-5800  
 Fax: 1+610-250-2700  
 Toll Free: 1-888-TORCUP-1  
[sales@torcup.com](mailto:sales@torcup.com)

1025 Conroy Place  
 Easton, PA 18040  
 Please contact us for more information  
 Made in the USA

**Detroit™ Tooling**  
**Packages Effective**  
 9/12/2014

**RP Series Torque Wrench (includes tool, standard reaction arm and carrying case)**

Part Number	Torque Range	Drive Size	Price
RPDD-1000	150 - 1,030 Ft/lbs	1"	\$4,250.00

**RP Series Accessory Reaction Arms and Sockets**

Part Number	Description	Application	Price
RPDDA-10-DDARM	Reaction Arm for use with RPDD-1000, includes knob and square drive	Head and Main Bolt Application	\$1,020.00
T-16M19DH	1" Drive x 19mm Standard 12 Point Socket	Head Application	\$24.40
RPDDA-10-SKT	1" Drive 19mm 12 Point Reaction Arm Socket for use with RPDDA-10-DDARM	Head Application	\$125.00
RPDDA-10-CUP	1" Drive Reaction Arm Cup for use with RPDDA-10-DDARM	Head Application	\$125.00
T-16M24DH	1" Drive x 24mm Standard 12 Point Socket	Main Bolt Application	\$25.20
RPDDA-10-SKTMB	1" Drive 24mm 12 Point Reaction Arm Socket for use with RPDDA-10-DDARM	Main Bolt Application	\$136.00
RPDDA-10-CUPMB	1" Drive Reaction Arm Cup for use with RPDDA-10-DDARM	Main Bolt Application	\$136.00
RPDDA-10-S2SAR	Socket to Socket Reaction Arm for use with RPDD-1000	Lug Nut Application	\$985.00

**RP Series Filter/Regulator/Lubricator Assembly**

Part Number	Description	Price
RPDD-FRL	Filter/Regulator/Lubricator Unit, complete with 15' Air Hose	\$395.00

**RP Series DD Packages**

Part Number	Description	Price
RPDD-10-PK-HM	Detroit Diesel Head/Main Bolt Standard Package, consisting of one each RPDD-1000 without the standard reaction arm, RPDD-FRL, RPDDA-10-DDARM, T-16M19DH (x2), and T-16M24DH (x2)	\$5,489.20

RPDD-10-PKC-HM	Detroit Diesel Head/Main Bolt Custom Package, consisting of one each RPDD-1000 without the standard reaction arm, RPDD-FRL, RPDDA-10-DDARM, RPDDA-10-SKT, RPDDA-10-CUP, RPDDA-10-SKTMB, and RPDDA-10-CUPMB	\$5,912.00
RPDD-10-PK-HML	Detroit Diesel Head/Main Bolt and Lug Nut Standard Package, consisting of one each RPDD-1000 without the standard reaction arm, RPDD-FRL, RPDDA-10-DDARM, T-16M19DH (x2), T-16M24DH (x2), and RPDDA-10-S2SAR	\$6,474.20
RPDD-10-PKC-HML	Detroit Diesel Head/Main Bolt and Lug Nut Custom Package, consisting of one each RPDD-1000 without the standard reaction arm, RPDD-FRL, RPDDA-10-DDARM, RPDDA-10-SKT, RPDDA-10-CUP, RPDDA-10-SKTMB, RPDDA-10-CUPMB, and RPDDA-10-S2SAR	\$6,897.00
RPDD-10-PK-FL	Detroit Diesel Flywheel and U-Joint Leaf Spring Bolts Package, consisting of one each RPDD-1000, and RPDD-FRL	\$4,645.00
RPDD-10-PK-ALL	Detroit Diesel Complete Standard Package for Head/Main Bolts, Lug Nuts, Flywheel Bolts, and U-Joint Leaf Bolts, consisting of one each RPDD-1000, RPDD-FRL, RPDDA-10-DDARM, T-16M19DH (x2), T-16M24DH (x2), and RPDDA-10-S2SAR	\$6,749.20
RPDD-10-PKC-ALL	Detroit Diesel Complete Package for Head/Main Bolts, Lug Nuts, Flywheel Bolts, and U-Joint Leaf Bolts, consisting of one each RPDD-1000, RPDD-FRL, RPDDA-10-DDARM, RPDDA-10-SKT, RPDDA-10-CUP, RPDDA-10-SKTMB, RPDDA-10-CUPMB, and RPDDA-10-S2SAR	\$7,172.00

**All Prices are US Funds and subject to change without notice.**