

S-SERIES RDA (RUN DOWN ADAPTER) OPERATING INSTRUCTIONS

Rev 1.0 (7/15/2024)

Run Down Adapter

A run down adapter (RDA) is required when testing power tools with a torque analyzer or static-type torque sensors. These joint simulators provide consistent and reliable torque readings for use with power-driven torque control tools. A rundown adapter reduces the impact and irregular peaks that cause poor repeatability. The adapter is mounted inline between the tool's drive and the transducer of the torque analyzer or sensor.

The S-Series run adapter is designed to provide run down simulation for a "soft joint" application.



Torque Testing Operation

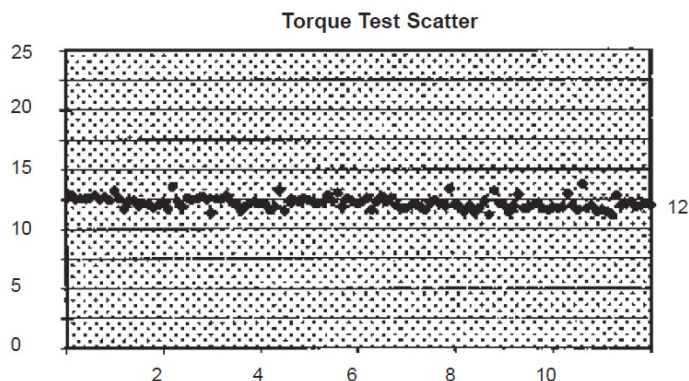
1. The torque analyzer or sensor should be properly secured on a solid surface or a test bench.
2. The run down adapter is mounted in-line between the tool drive's bit and the transducer of the torque analyzer or sensor.
3. Before each test operation, the run down adapter should be completely backed-up so the input drive can rotate freely.
4. The run down adapter is designed to run in a clockwise direction only.
5. Apply torque until the power tool shuts off and RDA is run down entirely. Then, note or save the torque reading with the analyzer.
6. The RDA should be completely backed up after each run down.

Torque Test Scatter Graph

The graph below shows torque values recorded after each test run.

Mean Torque: 11.72 lbf.in
Standard Deviation: 1.53 lbf.in

The run down adapter is designed to provide minimal scattering when used with a reliable and repeatable power tools, transducers and torque analyzers. The test equipment and method that are used will affect the performance of the run down adapters.

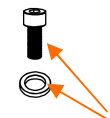


Preventative Maintenance

Pay special attention to the cycle count of the screw used in the RDA. Using the screw for more than the recommended cycles may cause erratic test results.

When the screw is changed out, it is recommended to add molybdenum grease to the thread of the screw and a light coat to the top face of the top washer. This will help reduce friction and improve consistent results.

It is recommended that the RDA be disassembled and cleaned and that the threads be re-coated with molybdenum grease every six months.



Add molybdenum grease

Models	Item #	Input Drive Screw Size (diameter/TPI)	Cycles Per Screw
RDA-S0	070843	M2x0.4Px8L, HEX1.5	80
RDA-S1.5	070836	M3x0.5Px10L, HEX2.5	80
RDA-S10	070835	M3x0.5Px20L, HEX2.5	80
RDA-S15	070833	M8x1.25Px35L, HEX6	500
RDA-S75	070834	M8x1.25Px35L, HEX6	2000
RDA-S200	070840	M8x1.25Px35L, HEX6	2000
RDA-S400	070839	M12x1.75Px40L, HEX10	2000
RDA-S600	070841	M12x1.75Px40L, HEX10	2000



Mountz Calibration and Repair Services

Mountz Inc. features an experienced calibration and repair staff. Our trained technicians can calibrate and repair most any tool. Mountz provides rapid service with quality that you can trust as we offer two state-of-the-art calibration lab and repair facilities that can calibrate up to 20,000 lbf.ft.

About Mountz

Mountz, The Torque Tool Specialists[®], has been a leader in the torque tool industry for more than 60 years. Engineered in the Silicon Valley and serving the globe, Mountz focuses on delivering high-quality torque products, services, and solutions to ensure customers can always proceed with confidence. We are committed to forging a safer world through precision and accuracy and by innovating every day.