



**WRIGHT TOOL**

**Operating Instructions & Parts List**

**9S292 Torque Multiplier**

**Warning:**

- > Do not hold multiplier while applying torque since normal multiplier deflection might cause fingers to be pinched; especially in confined areas.
- > Maintain firm hand control of torque wrench or input handle during entire torquing effort. Torque wind-up could cause torque wrench or input handle to spin in the reverse direction and result in personal injury.

**1. Important Instructions**

- 1.1. Read and understand these Operating Instructions before using the torque multiplier.
- 1.2. DO NOT IMPACT THE TORQUE MULTIPLIER.
- 1.3. DO NOT EXCEED RATED INPUT CAPACITY (571 Lbf-Ft or 771 N.m).
- 1.4. When positioning torque multiplier on the application, be sure socket attached to output is positioned so the Reaction Anchor is at right angles to the fastener. REMEMBER: Torque reaction creates a rotational force in the opposite direction from which input force is applied.
- 1.4. Keep couple between the Torque Multiplier Output and the fastener that torque is being applied to as short as possible. Keep couple between Torque Multiplier and anchor tube as long as possible. This will maximize Torque Multiplier life.
- 1.5. Since torque reaction is about equal to OUTPUT torque, be sure and select an anchoring point sufficient to withstand this force!
- 1.6. When using the torque multiplier without a torque wrench, remember that output torque is 3.5 times greater than input.

**2. Description and Specifications**

- 2.1. The 9S292 Torque Multiplier uses a planetary-gear action to tighten and loosen fasteners. Tool rotation is continuous 360 degree in either clockwise or counter-clockwise direction. Input and output rotation directions are the same.
- 2.2. Specifications - See Chart Below.

**2.3. Torque Conversions**

Lbf-ft		N.m	
Input	Output	Input	Output
143	500	200	700
286	1000	400	1400
429	1500	571	2000
571	2000	771	2700

**3. Torque Operation**

- 3.1. Connect the Reaction Anchor Tube to the 9S292 Torque Multiplier using the A000151812001 Socket Head Cap Screw.
- 3.2. Attach a 1" square female drive socket to the multiplier. Mount the socket and Torque Multiplier on the fastener to be tightened.
- 3.3. Allow the Reaction Anchor to butt against a suitable object to take up the torque reaction.
- 3.4. Mount a 3/4" Ratchet Adapter and Torque Wrench into the input of the Multiplier.
- 3.5. Before applying torque, refer to the torque data plate on the reaction anchor to determine the proper input for the desired output.
- 3.6. To tighten a fastener, apply the proper torque clockwise for right hand threads, counter-clockwise for left-hand threads.
- 3.7. To loosen a fastener, follow the same procedure as outlined above, but replace the Torque Wrench with a work handle and apply the torque in the opposite direction.

**4. Lubrication and Maintenance**

- 4.1. If Dust Seals between Ring Gear and Input & Output Caps become dry, lubricate seals with a lithium base grease.
- 4.2. If Torque Multiplier is disassembled, relubricate all friction points using a high grade molybdenum-disulfide grease. (Sweeney 503 or equivalent).
- 4.3. If Torque Multiplier is disassembled, apply loctite 242, thread locking compound, to low head cap screws and torque screws to 80 lbf-in torque upon reassembly.

