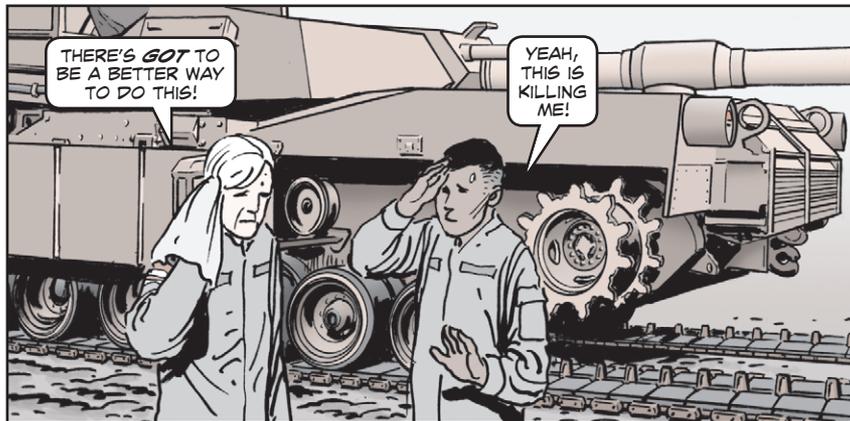
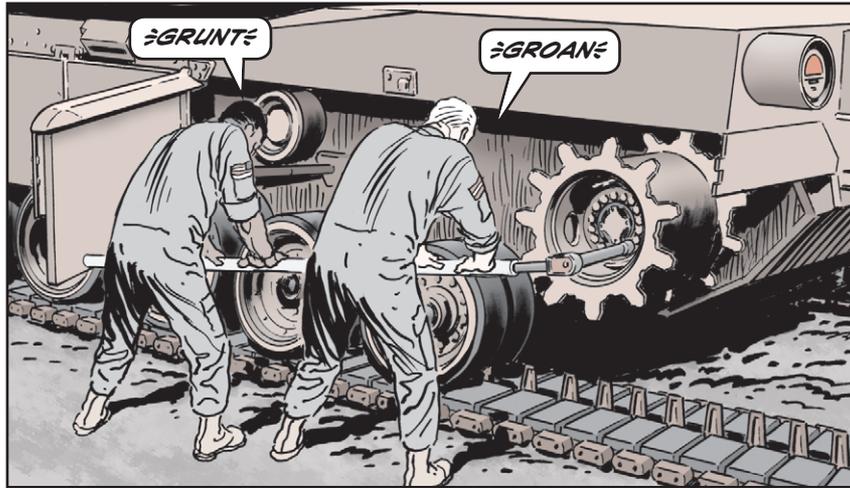


Wrench Makes a BIG Impact



When it comes to breaking loose stubborn or high-torqued nuts, bolts and screws, you've got to have the right tools to do the job quickly and safely.

For example, M1-series tank sprocket screws are torqued to 700-750 lb-ft. The on-board electric impact wrench can't loosen the torque on these screws. So many units use two or three soldiers, a wrench, a breaker bar, breaker bar extension, lots of muscle, and about 45 minutes of exertion to break the screws loose.

That's not only a lot of work, but it's dangerous, too. If any of the tools slip, you can be hurt.

When it's time to break loose tough hardware, nothing does the job better than a manual impact wrench. It's relatively small, compact, requires no external power, and can be operated by one person in tough environments. And yet it breaks loose high-torque components safely and easily. Here's how it works:

A heavy rotary hammer inside the wrench head turns until the nut offers enough resistance to hold the hammer stationary against a strong spring located inside the handle.

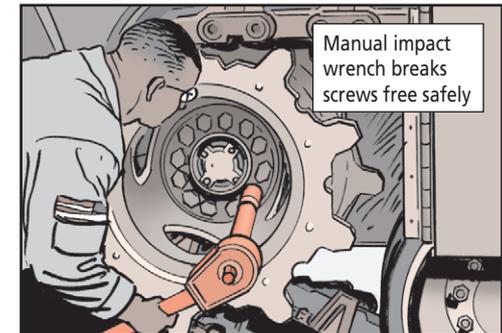
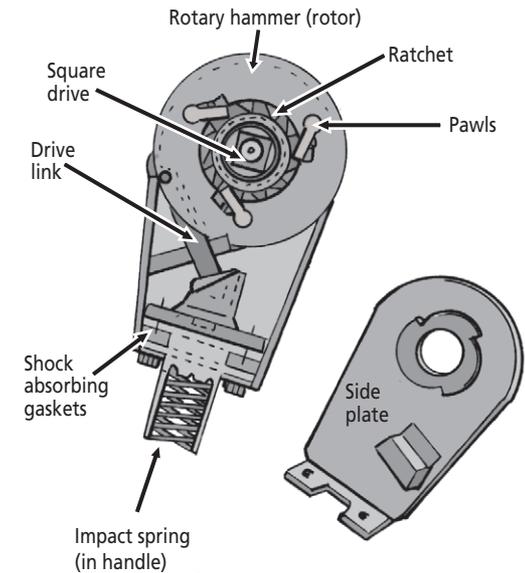
As the handle advances, a drive link begins compressing the spring. A set of cams attached to the side plates of the wrench raise three pawls from where they are engaged with the ratchet teeth.

When the handle is advanced enough, the pawls are suddenly released from the ratchet teeth. Driven by the spring, the rotary hammer snaps forward. The pawls engage the next set of ratchet teeth and deliver all of the momentum of the spring-driven rotor.

The result is a tremendous, sharp torsional blow equal to many times the force applied to the wrench handle itself. This is transmitted directly to the hardware as pure torque, breaking it free.

Once the hardware is loose, you can finish removing it with the wrench's ratcheting feature or with a standard electric impact wrench.

The manual impact wrench combo set, NSN 5120-00-961-9815, is part of the No. 2 Supplemental shop set. This set is currently being replaced by the Standard Automotive Tool Set (SATS). Units identified in the SATS basis of issue plan (BOIP #0059-AA, Module 1-AB, Module 2-AC) will be turning in their No. 2 Supplemental shop set, but will be allowed to keep their manual impact wrench set.



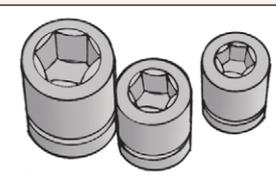
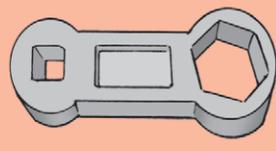
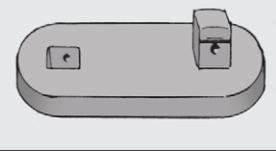
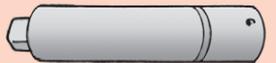


THE MANUAL IMPACT WRENCH COMBO SET IS ACTUALLY MADE UP OF TWO SEPARATE KITS—

A 1-IN DRIVE IMPACT WRENCH KIT, NSN 5120-00-961-9814, AND A 3/4-IN DRIVE KIT, NSN 5120-00-961-9813. HERE ARE THE COMPONENTS...

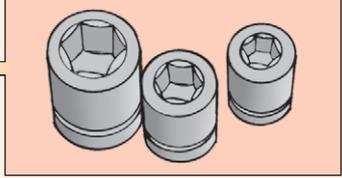
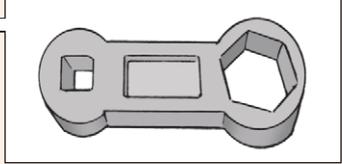
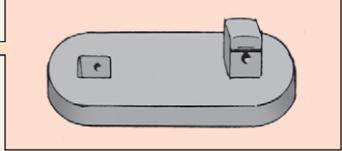
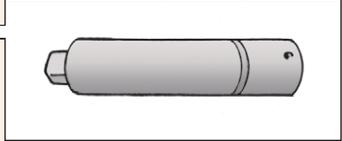
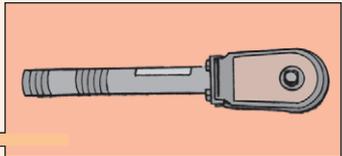
**1-in Drive Impact Wrench Kit,
NSN 5120-00-961-9814**

Component	NSN
Wrench, 1-in drive, 2,000 lb-ft	5120-00-440-8011
Extension, 7-in	5130-00-449-6658
Extension, 8-in	5120-01-164-1455
Extension, 12-in, for Budd wheels	5120-01-164-7328
Extension, 13-in	5130-00-449-6659
Extension, 20-in, for Budd wheels	5120-01-164-7327
Offset link, 1 3/4-in long	5120-01-164-7329
Offset link, 4 1/4-in long	5120-01-163-9689
Box end wrench, 1 1/2-in hex	5120-01-170-3275
Box end wrench, 2 1/4-in hex	5120-01-163-9690
Impact socket, 1 9/16-in	5130-00-684-0919
Impact socket, 1 5/8-in	5130-00-221-8023
Impact socket, 1 11/16-in	5130-00-221-8024
Impact socket, 1 3/4-in	5130-00-684-0918
Impact socket, 1 13/16-in	5130-00-221-8025
Impact socket, 1 1/4-in	5130-00-189-7917
Impact socket, 1 15/16-in	5130-00-684-0917
Impact socket, 2-in	5130-00-235-5881
Impact socket, 2 1/16-in	5130-01-166-6465
Impact socket, 2 1/8-in	5130-01-166-6466
Impact socket, 2 3/16-in	5130-00-293-1375
Impact socket, 2 1/4-in	5130-00-293-1374
Impact socket, 2 5/16-in	5130-01-167-6632
Impact socket, 2 3/8-in	5130-00-293-1373
Impact socket, 2 7/16-in	5130-01-166-6467
Impact socket, 2 1/2-in	5130-01-170-3274
Tool box, portable	5140-01-163-9699



**3/4-in Drive Impact Wrench Kit,
NSN 5120-00-961-9813**

Component	NSN/PN
Wrench, 3/4-in drive, 800 lb-ft	5120-00-440-8047
Extension, 7-in	5130-00-449-6656
Extension, 10-in	5130-00-723-2896
Extension, 13-in	5130-00-449-6657
Offset link, 1 1/4-in long	5120-01-151-1823
Offset link, 3 3/4-in long	5120-01-151-1824
Box end wrench, 1 1/8-in hex	5120-01-154-5137
Box end wrench, 1 1/4-in hex	5120-01-151-1805
Box end wrench, 1 7/16-in hex	5120-01-154-5138
Impact socket, 3/4-in	5130-00-227-6701
Impact socket, 13/16-in	5130-00-227-6676
Impact socket, 7/8-in	5130-00-227-6677
Impact socket, 15/16-in	5130-00-293-1411
Impact socket, 1-in	5130-00-227-6679
Impact socket, 1 1/16-in	5130-00-293-1412
Impact socket, 1 1/8-in	5130-00-227-6681
Impact socket, 1 3/16-in	5130-00-293-1413
Impact socket, 1 1/4-in	5130-00-227-6683
Impact socket, 1 5/16-in	5130-00-227-6684
Impact socket, 1 3/8-in	5130-00-227-6685
Impact socket, 1 7/16-in	5130-00-227-6686
Impact socket, 1 1/2-in	5130-00-236-3979
Impact socket, 1 7/8-in	5130-00-235-5880
Tool box, portable	41-81099-00
Maintenance manual	41-22121-34



THOUGH NOT PART OF THE KIT ABOVE, YOU CAN ALSO GET A SMALLER 3/4-IN DRIVE, 500 LB-FT IMPACT WRENCH WITH NSN 5120-00-871-2592.



HOWEVER, YOU MUST ORDER THIS WRENCH ON A DD FORM 1348-6 AND PUT "NSN NOT ON AMDF" IN THE REMARKS BLOCK.

