

1st Year Diesel and Heavy Equipment Mechanics Required Tool List

The following tools list represents a starter set of diesel mechanics tools.

Laptop or tablet able to access the internet, work with various manufactures websites and learning platforms, (most will without issue)

.

- 1/4" Drive set in a plastic box (Standard and Metric)
- 3/8" Drive Ratchet 3/8" 12" Extension
- 3/8" 6" Extension 3/8" 2" Extension 3/8 U-Joint
- 3/8" Drive sockets from 3/8 to 3/4
- Metric 3/8 Impact Sockets From 8-19 mm 12 pt.
- 3/8 Impact Wrench 3/8" Drive Allen sockets (standard and metric)
- 3/8" Torque Wrench
- 1/2" Drive Ratchet 1/2" Drive Breaker Bar 18" 1/2" Extension 10"
- 1/2" Extension 6" 1/2" Extension 2" 1/2-3/8" Adapter
- 1/2" U-joint
- 1/2" Drive Sockets from 1/2" to 1 1/8"
- Metric 1/2" Impact Drive Sockets from 12-24 mm 12pt.
- 1/2" Impact Wrench
- 1/2" Torque Wrench
- 1/2" Impact Wrench
- Combination Wrenches from 1/4" to 1 5/16"
- Metric Combination Wrenches 8 mm 10mm 11mm 13mm 14mm 15mm 16mm 17mm 18mm 19mm 20 mm 22mm 24mm
- Short Handle Combination Wrenches Standard and Metric
- Flat Chisels with 3/8" 1/2" & 5/8" Blade Widths
- Starter Punches with 3/32" 1/8" & 1/4" Point Diameter
- Pin Punches with 3/32" 1/8" & 1/4" Point Diameter
- Center punch
- Pry Bar with a roll head one end and a point on the other
- Flat pry Bars 4 piece set
- Screw Drivers:
Blade Tip Width Blade Length
- 1 @ 1/4" 1 1/2"
- 1 @ 3/16" 2 1/2"
- 1 @ 1/4" 4"
- 1 @ 5/16" 6"
- 1 @ 3/8" 8"
- Philips Bit size #2 1 1/2"
- Philips Bit Size #1 3"
- Philips Bit Size #2 4"

Torx Bit Set Could be bought as a set with screw drivers

Allen Wrenches (standard and Metric)

Misc. Tools:

Seal Picks

Flat files, 3 Round files 3

Thomas & Betts terminal pliers WT-2000 or equivalent

Butane torch

Tape Measure

Snap ring plier set

Extendable magnet

Tire pressure gauge (dual tire)

Tire inflator (dual tire)

Tire thread depth gauge

Test Light

Thread pitch Gauge

Diagonal Side Cutters Jaw Length 3/4" Overall length 7"

Needle Nose Jaw length 2 1/4" Overall length 7"

Combination Pliers—overall length 8"

Interlocking Joint Pliers – overall length 12"

Ball Peen Hammer—2 pounds

Ball Peen Hammer—1 pound

Dead Blow Hammer 16oz and 48oz

Pipe Wrenches 10" & 18"

50' Air Hose

50' Extension Cord 12 Gauge 3 Wire

Feeler Gauge – blades ranging in size from .0015 to .035

Adjustable Wrench –12"

Adjustable Wrench –10"

Gasket Scraper

Hack saw Frame

Vise Grips

Flashlight

OSHA approved Blow Gun

[Fluke 1155 Multi meter and OTC 3587 Test Lead and Terminal Kit purchased through HCC](#)

[Book store](#)

Drill Bits (all three Number, Letters and Fractions up to 1/2")

Tap and Die set 1/4- 1/2 SAE and USS

Lifting Brackets: OTC 7100 or Equivalent Available through NAPA

Inhered Heat/Temp Gun

Striker

Cutting Goggles

Torch Tip cleaner

Digital calipers

Tool Box NO Larger Than 22,967 CU in. or a 24X41 Foot Print

Revised 8/25/2021

