

Diesel Mechanic Tools List

Adapters

- ¼-inch to ⅜-inch
- ¼-inch to ½-inch
- ⅜-inch to ¼-inch
- ⅜-inch to ½-inch
- ½-inch to ⅜-inch
- ½ to ¼-inch
- ½-inch to ¾-inch
- ¾-inch to ½-inch

Allen Drivers

- Standard 3/32-inch to ⅜-inch and metric 3-millimeter to 17-millimeter
- Standard Allen wrench set .05-inch to ⅜-inch
- Metric Allen wrench set 2-millimeter to 12-millimeter

¼-Inch Drive Socket Set

- Standard (shallow and deep, SAE) 3/16-inch to ⅝-inch
- Metric (shallow and deep) 5-millimeter to 15-millimeter
- Standard depth 3/16-inch to ½-inch
- Deep 3/16-inch to ½-inch
- Standard depth 4-millimeter to 13-millimeter
- Deep 4-millimeter to 13-millimeter
- Short, medium, long extensions
- Ratchet handle
- Universal joint

⅜-Inch Drive Sockets

- Standard (SAE, deep, shallow and impact) 5/16-inch to 1-inch
- Metric (deep, shallow and impact) 7-millimeter to 20-millimeter
- Standard depth 12 Point ⅜-inch to ¾-inch
- Deep 6 point ⅜-inch to ¾-inch
- Standard depth 10-millimeter to 19-millimeter
- Deep 10-millimeter to 19-millimeter
- Short, medium, long extensions
- Ratchet handle
- Universal joint
- ⅜-inch to ¾-inch Sq Dr flexible socket
- 0-250-inch-lb. torque wrench

½-Inch Drive Sockets

- Standard (SAE, deep, shallow and impact) 3/8-inch to 1 ¼-inch
- Metric (deep, shallow and impact) 10-millimeter to 27-millimeter
- Shallow ½-inch to 1 1/8-inch
- Deep ½-inch to 1 1/8-inch
- Shallow 13-millimeter to 32-millimeter
- Deep 13-millimeter to 32-millimeter
- Sq Dr stud remover tool
- Breaker bar
- Short, medium, long extensions
- Ratchet handle
- Universal joint
- 0-250-foot-lb. torque wrench

Extensions

- 2-inch
- 6-inch
- 12-inch
- 24-inch (optional for reaching transmission bellhousing bolts)

Feeler Gauge Set

- Red handle for exhaust
- Blue handle for intake

Hammers

- Dead blow
- Ball-peen (16 ounce and 24 ounce)
- 4 to 5 lb. sledgehammer
- Plastic 2.5-lb. h. d.

Impacts

- ½-inch
- 3/8-inch
- ¼-inch (battery- or air-powered)

Multimeter

- Auto-ranging
- Digital read-out

Pliers

- Standard
- Adjustable
- Needle nose
- Vise-grip set
- Adjustable joint
- Locking
- Side cutters
- Slip-joint
- Snap ring
 - Small reversible
 - Large reversible
 - Flat with 1 $\frac{3}{4}$ -inch minimum opening
- Brake spring
- Battery nut

Pry Bar Set

- Small 1-foot
- Medium 2-foot
- Large 3-foot

Ratchets

- $\frac{1}{2}$ -inch standard ratchet
- $\frac{3}{8}$ -inch standard ratchet
- $\frac{1}{4}$ -inch standard ratchet
- Breaker bar

Screwdrivers

- Philips (short, medium, long)
- Flatheads
- 1-inch #2
- 6-inch #1
- 6-inch #2
- 1-foot #3
- Blade type: 1-inch, 6-inch, 9-inch, 1-foot, offset

Torque Bit Drivers

- T10
- T15

- T20
- T25
- T27
- T20
- T40
- T45 (medium and long shaft drivers)

Wiring Equipment

- Crimping tool
- Wire stripping tool
- Wire cutters
- Handheld torch

Wrenches

- Standard (SAE), 5/16-inch to 1¼-inch
- Metric, 8-millimeter to 22-millimeter
- Combination standard ⅜-inch to 1¼-inch
- Combination metric 6-millimeter to 26-millimeter
- Flare nut standard ⅜-inch to ¾-inch
- Flare nut metric 7-millimeter to 19-millimeter
- Adjustable 1-inch to 8-inch
- Adjustable 1-inch to 1-foot
- Torx wrench set T-15 to T-55
- Pipe wrench 10-inch or 14-inch
- 20-inch reversing chain wrench
- Filter wrench

Files

- 12-inch fine
- 12-inch coarse
- Round
- Half-round
- 6-inch triangle

Punches

- Pin 3/16-inch to ⅜-inch
- Center 5-inch
- Cold chisel
 - ⅜-inch blade to 5-inch length
 - ⅝-inch blade to 6-inch length

- 7/8-inch blade to 7-inch length
- Starter 3/16-inch to 3/8-inch
- Brass punch

Feeler Gauges

- .005-inch to .05-inch
- .005-millimeter to .07-millimeter

Other Items for a Diesel Mechanic Tool Set

- 12-foot measuring tape
- 15-inch aligning bar
- Adjustable all-angle inspection mirror
- Battery post cleaner
- Battery terminal clamp puller
- Cotter key extractor
- Crimp/stripper tool
- Dial caliper
- Drill bits 1/16-inch to 1/2-inch
- Extractor set (broken bolt)
- Flashlight
- Flexible retrieving and holding tool
- Gasket scraper 1-inch wide
- Hacksaw
- Hearing protection
- Knife
- Magnetic pickup tool (telescoping)
- O-ring pick set
- Rolling head pry bar
- Safety glasses
- Set starter – jumper wires with clips
- Tire air chuck
- Tire gauge (truck-type)
- Valve core replacement tool
- Wire brush
- Work gloves

Heavy Equipment, Truck and Diesel Technician Freshman Equipment List

1/4" Square Drive Socket Set

1. Six-point sockets (3/16 - 9/16")
2. 4 - 14mm shallow and deep well socket sets
3. Reversible ratchet
4. 3" extension
5. 6" extension

3/8" Square Drive Socket Set

1. Sockets (3/8 - 3/4")
2. Six-point deep well sockets (3/8 - 3/4")
3. 8mm - 19mm shallow and deep well socket sets
4. 3" extension
5. 6" extension
6. 10" extension
7. Reversible ratchet
8. Universal joint

1/2" Square Drive Socket Set

1. 13 sockets (3/8 - 1 1/8")
2. 10mm - 24mm shallow impact sockets
3. 3" extension
4. 6" extension
5. 10" extension
6. 24" flex handle
7. Reversible ratchet
8. Universal joint

Brakes & Suspension

1. Narrow brake spoon
2. Brake line double flare kit and ISO flare kit
3. Tire gauge
4. Tire valve core remover
5. 6" brass or aluminum punch
6. 3/8" torx socket set T15 - T55
7. 1/2" drive torque wrench (max. 250 lb.) **
8. 3/8" drive torque wrench (flex head, min. 5 lb.)

9. Return and hold down spring tools

Welding & Preventive Maintenance

1. Tip cleaner (torch)
2. Spark lighter
3. Tire tread depth gauge (1/32")
4. Files: 1 round and 3 square files
5. One small roll of acid core solder
6. Welding kit***
7. Flame resistant welding jacket
8. High-cuff welding gloves
9. Welder's helmet (shade 10)
10. Welding goggles (shade 5)

Electrical & Fuel Systems

1. Set round feeler gauges
2. 13/16" & 5/8 - 3/8" spark plug sockets
3. 12-18" jumper wire (16 gauge minimum)
4. Roll of black electrical tape***
5. Small tube resin solder***
6. 12v test light (Power Probe III recommended)
7. Sparkplug gaper
8. Ignition spark tester

Miscellaneous Tools

1. Allen wrench set (standard and metric)
2. Combination wrenches (3/8 - 1")
3. 5-piece punch and chisel set
4. 8 - 22mm combination wrench set
5. 3 flat screwdrivers - 4", 6", 8"
6. 3 Phillips screwdrivers - #2 stubby, #2 regular, #1 regular
7. 1 1/2 lb. or heavier ball peen hammer
8. Rechargeable and cordless light
9. Blow gun with rubber tip and male coupler (NAPA 90-618, or equivalent)
10. Tire chuck with male coupler (NAPA 90-618, or equivalent)
11. 1 fender cover
12. Slip lock-type pliers (5-6 positions)
13. Needle nose pliers
14. 10" vise grips
15. 12' measuring tape
16. Set drill bits by 1/64 increments to 1/2"

17. Diagonal pliers (side cutters)
18. Round inspection mirror
19. Dial indicator (flex arm preferred)**
20. Roll of shop towels
21. Magnet with extendable rod (optional)
22. DVOM with 10A and 320MA
23. 1/2" Impact gun
24. Soldering gun/soldering iron
25. Small swivel oil filter wrench
26. Large swivel oil filter wrench
27. 25' extension cord
28. Truck tire pressure gauge (0-150 PSI)
29. Pick Set
30. Needle nose vice grips
31. Gasket scraper
32. Power steering pulley installer & remover
33. 4" Grinder and grinding wheels
34. Automotive thermometer (dial type)
35. Three (3) piece prybar set (max. 35")
36. 90 degree die grinder kit with 2" roloc arbor

Heavy Equipment, Truck and Diesel Technician Senior Equipment List

1. One (1) pump-type oil can
2. Set of E-Z Outs or screw extractors
3. One (1) 3 lb. dead blow hammer
4. One (1) ball peen hammer (32 oz. or larger)
5. One (1) 50' flexible air hose with ends
6. One (1) set of ear plugs or muffs (for ear protection)
7. Box end/open end combination wrenches 1 1/8" to 1 1/4"
8. Hand wire brush
9. Lady Foot Pry Bars - One (1) 12" and one (1) 16"
10. 3/8" drive 12 point 1/4" to 3/4" and 10 - 19mm
11. Bearing race punch - 16" or longer
12. Respirator or dust masks for clutch and brake work
13. Bottle of white out***
14. Pocket calculator***
15. 24" 1/2" drive breaker bar
16. Flash light
17. Slip lock pliers (18" - 24")
18. Grease gun
19. Snap ring pliers
20. 4-piece long picks set

21. Large brass punch
22. 6" dial caliper (Measures inches and millimeters)
23. Large oil filter wrench
24. Creeper
25. Mini air regulator - 22 CFM capacity
26. Small plastic squeeze bottle
27. 1/2" Allen socket set

Major Equipment:

- Lifts
- Diagnostic Machines
- Creepers
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