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MEASURING TAPES**



Do not open the case. Spring motor is under tension and opening may cause injury.

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PLIERS**

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KNIVES AND BLADES**

Always keep  
your free hand  
away from the  
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**SAFETY TIP:  
KNIVES AND BLADES**

Always be sure that blades are properly seated in knives and that knives are properly closed and/or fastened together before use.



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**Gear Pullers**

2 Jaw Gear Puller, 4" . . . . .	805
2 Jaw Gear Puller, 7" . . . . .	805
2 Jaw Gear Puller, 10" . . . . .	806
3 Jaw Gear Puller, 4" . . . . .	805
3 Jaw Gear Puller, 8" . . . . .	805
3 Jaw Gear Puller, 11" . . . . .	806

**Jaw Block Assembly**

6 Ton Jaw Block Assembly . . . . .	791
10 Ton Jaw Block Assembly. . . . .	792

**Jaw Puller**

2-Way Crossarm Threaded 5/8" - 12 Acme . . . . .	812
2-Way/3-Way Crossarm Threaded 5/8" - 12 Acme . . . . .	812
3 Jaw Gear Puller, 7" - Reversible . . . . .	806
3 Jaw Gear Puller, 10" - Reversible . . . . .	807
3-Way Crossarm Threaded 3/4" - 12 Acme . . . . .	812
6 Ton 2-Way Threaded Part Puller . . . . .	804
6 Ton 3-Way Cone Puller . . . . .	788
6 Ton Proto-Ease™ 2-Way/3-Way . . . . .	

6 Ton Proto-Ease™ 2-Way Pilot Bearing/Small Bushing Puller . . . . .	800
6 Ton Proto-Ease™ 2-Way Straight Jaw Puller . . . . .	790
10 Ton Press-N-Pull™ 2-Leg Puller. . . . .	797
10 Ton Proto-Ease™ 2-Way Adjustable Jaw Puller . . . . .	792
10 Ton Proto-Ease™ 3-Way Straight Jaw Puller. . . . .	794
10 Ton Proto-Ease™ 3-Way Adjustable Jaw Puller . . . . .	792
Adjustable Jaw Puller. . . . .	790
Adjustable Reversible Jaw . . . . .	813

**Puller Parts**

11 PC Step Plate Adapter Set. . . . .	804
Battery Cable and Small Bearing Puller . . . . .	806
Bearing Separator Combo Pack . . . . .	800
Blind Bearing Puller. . . . .	811
Cap Screw . . . . .	808
Close Quarters Pilot Bearing Puller . . . . .	807
Crossarm . . . . .	813
Forcing Screw . . . . .	810, 813
Inside Hook Jaw . . . . .	811
Jaws . . . . .	808, 811, 812
Legs. . . . .	813
Pivot Pin - Puller Replacement Part . . . . .	808
Puller Step Plate Adapters . . . . .	804
Pulley Puller . . . . .	807
Rear Axle Flange Foot . . . . .	810
Reversible Adjusting Nut . . . . .	809
Reversible Jaw Slide Hammer Puller. . . . .	799
Separator Threaded Rods . . . . .	813
Slide Hammer . . . . .	810
Slideblock . . . . .	809
Slotted Crossarm (2-Way & 3-Way) . . . . .	809
Slotted Crossarm Threaded 5/8" - 12 Acme . . . . .	809
Spring Clip . . . . .	811
Standard Tip . . . . .	812
T-Handle Slide Rods . . . . .	810
Yoke. . . . .	808

**PUNCH & CHISEL HOLDER**

Punch and Chisel Holder . . . . .	767
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**PUNCH & CHISEL SETS**

5 PC Punch and Chisel Set . . . . .	758
12 PC Punch and Chisel Set. . . . .	758
12 PC Stanley® Punch and Chisel Set . . . . .	989
26 PC Punch and Chisel Set. . . . .	759

**PUNCH SETS**

3 PC Brass Drift Punch Set . . . . .	765
3 PC Brass Heavy-Duty Punch Set. . . . .	765
6 PC Stanley® Pin Punch Set . . . . .	989
5 PC Drift Punch Set . . . . .	763
5 PC Long Drive Pin Punch Set . . . . .	761
7 PC Drift Punch Set . . . . .	762
7 PC Roll Pin Punch Set. . . . .	763
7 PC Pin Punch Set. . . . .	764
7 PC Super-Duty Pin Punch Set . . . . .	762
11 PC Facom® Shock Absorbing Punch Set. . . . .	764







**SAFETY TIP:  
SCREWDRIVERS**

Never use a standard screwdriver as a cold chisel, for prying, punching, or chiseling.



**PUNCHES**

Brass Drift Punches . . . . . 770  
 Brass Line-Up Punches . . . . . 771  
 Center Punches . . . . . 770  
 Drift Punches . . . . . 769  
 Drive Pin Punches . . . . . 768  
 Long Aligning Punch . . . . . 769  
 Prick Punches . . . . . 770  
 Punches . . . . . 756  
 Roll Pin Punches . . . . . 768  
 Stanley® Center Punches . . . . . 988  
 Stanley® Starter Punch . . . . . 988  
 Stanley® Pin Punches . . . . . 988  
 Stanley® Prick Punch . . . . . 988  
 Starting Punches . . . . . 769  
 Super-Duty Drive Pin Punches . . . . . 767  
 Super-Duty Long Drive Pin Punches . . . . . 768

**RATCHETS**

**1/4" Drive**  
 1/4" Drive Aerospace Classic Pear Head Ratchet . . . . . 292  
 1/4" Drive Aerospace Premium Pear Head Ratchets . . . . . 292  
 1/4" Drive Flex-Head Ratchet . . . . . 293  
 1/4" Drive Quick Release Premium Pear Head Ratchet . . . . . 291  
 1/4" Drive Standard Length Premium Pear Head Ratchets . . . . . 291  
 1/4" Drive Standard Length Classic Pear Head Ratchets . . . . . 292  
 1/4" Drive Standard Length Round Head Ratchet . . . . . 293

**1/4" Drive Insulated**  
 Facom® 1/4" Drive Insulated Ratchet . . . . . 437

**3/8" Drive**  
 3/8" Drive Aerospace Classic Pear Head Ratchet . . . . . 349  
 3/8" Drive Aerospace Premium Pear Head Ratchet . . . . . 348  
 3/8" Drive Female Drive Ratchet . . . . . 349  
 3/8" Drive Flex-Head Ratchet . . . . . 349  
 3/8" Drive Long Handle Classic Pear Head Ratchets . . . . . 348  
 3/8" Drive Long Handle Premium Pear Head Ratchets . . . . . 347  
 3/8" Drive Quick Release Premium Pear Head Ratchet . . . . . 347  
 3/8" Drive Spinner Ratchet . . . . . 349  
 3/8" Drive Standard Length Classic Pear Head Ratchets . . . . . 348  
 3/8" Drive Standard Length Premium Pear Head Ratchets . . . . . 347  
 3/8" Drive Standard Length Round Head Ratchet . . . . . 349  
 3/8" Drive Stubby Classic Pear Head Ratchet . . . . . 348

**3/8" Drive Insulated**

Facom® 3/8" Drive Insulated Ratchet . . . . . 439

**3/4" Drive**

3/4" Drive Female Drive Ratchet . . . . . 427  
 3/4" Drive Standard Length Classic Pear Head Ratchets . . . . . 427

**1/2" Drive**

1/2" Drive Flex-Head Ratchet . . . . . 405  
 1/2" Drive Long Handle Classic Pear Head Ratchets . . . . . 404  
 1/2" Drive Long Handle Female Drive Ratchet . . . . . 405  
 1/2" Drive Long Handle Premium Pear Head Ratchets . . . . . 403  
 1/2" Drive Long Handle Round Head Ratchet . . . . . 405  
 1/2" Drive Oversized Lever Classic Pear Head Ratchet . . . . . 404  
 1/2" Drive Quick Release Premium Pear Head Ratchets . . . . . 403  
 1/2" Drive Scaffolding Ratchet . . . . . 406  
 1/2" Drive Spud Handle Ratchet . . . . . 406  
 1/2" Drive Standard Length Classic Pear Head Ratchets . . . . . 404  
 1/2" Drive Standard Length Premium Pear Head Ratchets . . . . . 403  
 1/2" Drive Standard Length Round Head Ratchets . . . . . 405

**1/2" Drive Insulated**

Facom® 1/2" Drive Insulated Ratchet . . . . . 441

**1" Drive**

1" Drive Standard Length Classic Pear Head Ratchet  
 - Male/Female . . . . . 433

**Insulated**

Facom® Insulated Ratchets . . . . . 436

**Repair Parts**

Pear Head Ratchet Repair Kits . . . . . 267, 443  
 Reverse Cam Repair Kits . . . . . 268, 443  
 Round Head Ratchet Repair Kits . . . . . 268, 443

**Spud Handle**

Spud Handle Ratchet . . . . . 266

**Stanley**

Stanley® Pear Head Quick Release™ Ratchets . . . . . 1067  
 Stanley® Round Head Quick Release™ Ratchets . . . . . 1067  
 Stanley® Rotator Ratchets . . . . . 1067

**REPAIR KITS**

**3/4" Drive Hex Bit**

3/4" Drive Hex Bit Repair Kits . . . . . 904

**3/4" Drive Impact**

3/4" Drive Hex Bit Repair Kits . . . . . 508

**Cannon Plug Pliers**

Cannon Plug Pliers Repair Kit . . . . . 904

**Compression Gauges**

Compression Gauge Parts . . . . . 905

**Pipe Wrenches**

Pipe Wrench Replacement Parts . . . . . 905

**Ratchets**

Pear Head Ratchet Repair Kits . . . . . 902  
 Round Head Ratchet Repair Kits . . . . . 902

**Reverse Cam**

Reverse Cam Repair Kit . . . . . 902





**Torque Multiplier**

Torque Multiplier Square Drive Replacement Kits . . . . . 903

**Torque Wrench**

Ratchet Head Repair Kits - Torque Wrench. . . . . 903

**Universal Chain Wrench**

Universal Chain Wrench Repair Kit . . . . . 904

**RETAINING RINGS**

**3/8" Drive**

3/8" Drive Retaining Rings . . . . . 473

**1/2" Drive**

1/2" Drive Retaining Rings . . . . . 498

**3/4" Drive**

3/4" Drive Retaining Rings . . . . . 510

3/4" Drive Impact Socket Retaining Pin . . . . . 510

**1" Drive Impact**

1" Drive Retaining Rings . . . . . 517

1" Drive Retaining Pins . . . . . 517

**1-1/2" Drive**

1-1/2" Drive Retaining Rings . . . . . 521

**2-1/2" Drive**

2-1/2" Drive Retaining Pin . . . . . 523

**SAWHORSES**

Stanley® Adjustable Sawhorse Twin Pack . . . . . 1097

Stanley® FatMax® Adjustable Leg Sawhorse . . . . . 1096

Stanley® Fold-Up Sawhorse . . . . . 1097

Stanley® Folding Sawhorse Twin Pack . . . . . 1097

Stanley® Junior Folding Sawhorse Twin Pack . . . . . 1097

**SAWS**

**Compact**

Stanley® Compact Fine Cut Saw . . . . . 959

**Coping Saw**

Stanley® FatMax® Coping Saws . . . . . 961

**Flush Cut**

Stanley® FatMax® Flush Cut Pull Saw . . . . . 960

Stanley® FatMax® Reversible Flush Cut Saw . . . . . 960

**Folding**

Stanley® Folding Pocket Saw . . . . . 965

**General**

Stanley® FatMax® Saws With BladeArmor™ Coating . . . . . 956

Stanley® FatMax® Saw . . . . . 956

Stanley® Finish Cut SharpTooth™ Saws . . . . . 957

Stanley® General Purpose SharpTooth™ Saw . . . . . 958

Stanley® Heavy-Duty SharpTooth™ Saws . . . . . 957

Stanley® SharpTooth™ Saws . . . . . 958

Stanley® SharpTooth™ Tool Box Saw . . . . . 958

**Hacksaw**

Stanley® Adjustable Hacksaw . . . . . 963

Stanley® Adjustable Hacksaw With Rubber Grip . . . . . 963

Stanley® Adjustable Tubular Frame Hacksaw . . . . . 963

Stanley® Composite Hacksaw . . . . . 963

Stanley® FatMax® High Tension Hacksaw . . . . . 962

Stanley® High Tension Composite and Steel Hacksaw . . . . . 962

Stanley® High Tension Hacksaw . . . . . 962

Stanley® High Tension Low Profile Hacksaw. . . . . 962

Stanley® Metal Mini-Hack™ Utility Saw . . . . . 963

Stanley® Plastic Mini-Hack™ Saw . . . . . 964

**Insulated**

Facom® VSE Series Insulated Hacksaw. . . . . 753

**Jab**

Stanley® Cushion Grip Jab Saw . . . . . 961

Stanley® FatMax® Jab Saw . . . . . 961

Stanley® Jab Saw With Wood Handle . . . . . 961

**Keyhole**

Stanley® 4-Way™ Keyhole Saw. . . . . 965

**Multi-Purpose**

Stanley® 3-In-1 Saw Set . . . . . 964

Stanley® 3-Blade Nest-Of-Saws . . . . . 964

Stanley® FatMax® Multi-Purpose Saw . . . . . 964

**Pull**

Stanley® FatMax® Double Edge Pull Saw . . . . . 959

Stanley® FatMax® Single Edge Pull Saw . . . . . 959

**PVC**

Stanley® FatMax® PVC Saw . . . . . 960

**SCREW STARTERS**

Combination Screw Starters . . . . . 695

Phillips® Screw Starters . . . . . 695

Slotted Screw Starters . . . . . 695

**SCREWDRIVER SETS**

**Combination**

2 PC Extra-Long Combination Proto® Screwdriver Set. . . . . 674

2 PC Precision Combination Proto® Screwdriver Set . . . . . 677

4 PC Precision Combination Proto® Screwdriver Set . . . . . 677

6 PC Combination Proto® Screwdriver Set . . . . . 673

8 PC Combination Proto® Screwdriver Set . . . . . 672

8 PC Combination Super Proto® Screwdriver Set . . . . . 682

8 PC Combination Super Proto® Black Screwdriver Set . . . . . 683

8 PC Long Combination Proto® Screwdriver Set . . . . . 673

19 PC Combination Proto® Screwdriver Set . . . . . 671

19 PC Combination Super Proto® Screwdriver Set . . . . . 680

**Insulated**

Facom® 8 PC 1000V Insulated Screwdriver Set . . . . . 687, 740

**Jeweler's**

6 PC Stanley® Jeweler's Precision Screwdriver Set . . . . . 1025

**Phillips**

6 PC Phillips® Proto® Screwdriver Set . . . . . 674

6 PC Phillips® Super Proto® Black Screwdriver Set . . . . . 683

6 PC Phillips® Super Proto® Screwdriver Set. . . . . 684

**Precision**

6 PC Stanley® Precision Screwdriver Set. . . . . 1025

**Slotted**

4 PC Slotted Super Proto® Screwdriver Set . . . . . 682





6 PC Slotted Proto® Screwdriver Set . . . . . 675  
 6 PC Slotted Super Proto® Screwdriver Set . . . . . 681

**Square Tip**

3 PC Square Tip Proto® Screwdriver Set . . . . . 677

**Stanley**

2 PC Stanley® Standard Fluted Screwdriver Set . . . . . 1016  
 5 PC Stanley® 100 Plus® Standard  
 5 PC Stanley® 100 Plus® Phillips® Tip Screwdriver Set . . . . . 1018  
 6 PC Stanley® Vinyl Grip Diy Screwdriver Set . . . . . 1012  
 6 PC Stanley® Vinyl Grip Pro Screwdriver Set . . . . . 1013  
 6 PC Stanley® Standard Fluted Screwdriver Set . . . . . 1016  
 7 PC Stanley® 100 Plus® Screwdriver Set . . . . . 1018  
 8 PC Stanley® 100 Plus® Screwdriver Set . . . . . 1018  
 8 PC Stanley® 100 Plus® Vinyl Grip Screwdriver Set . . . . . 1021  
 8 PC Stanley® Cushion Grip Screwdriver Set . . . . . 1012  
 8 PC Stanley® Standard Fluted Screwdriver Set . . . . . 1016  
 8 PC Stanley® Vinyl Grip Screwdriver Set . . . . . 1012  
 10 PC Stanley® Standard Fluted Screwdriver Set . . . . . 1015  
 10 PC Stanley® Standard Fluted Screwdriver Set  
 With Tape Rule . . . . . 1015  
 11 PC Stanley® FatMax® Screwdriver Set . . . . . 1010  
 12 PC Stanley® 100 Plus® Combination Screwdriver Set . . . . . 1021  
 18 PC Stanley® 100 Plus® Combination Screwdriver Set . . . . . 1021  
 20 PC Stanley® Standard Fluted Screwdriver Set . . . . . 1015  
 29 PC Stanley® Ratcheting Screwdriver Set . . . . . 1022  
 Stanley® Standard Fluted Cabinet Slotted Tip Screwdrivers . . . . . 1017  
 Stanley® Standard Fluted Phillips® Tip Screwdrivers . . . . . 1017  
 Stanley® Standard Fluted Square Tip Screwdrivers . . . . . 1017  
 Stanley® Standard Fluted Torx® Tip Screwdrivers . . . . . 1017  
 Slotted Tip Screwdriver Set . . . . . 1018

**Torx**

7 PC Torx® Super Proto® Black Screwdriver Set . . . . . 684  
 9 PC Torx® Proto® Screwdriver Set . . . . . 676

**SCREWDRIVERS**

**Hex**

Proto® Hex Screwdrivers . . . . . 686

**Insulated**

Facom® Insulated Screwdrivers . . . . . 687

**Magnetizer**

Magnetizer/Demagnetizer . . . . . 695

**Multi-Bit**

6-In-1 Stanley® Multi-Bit Screwdriver . . . . . 1024  
 Stanley® 6-Way Cushion Grip Screwdriver . . . . . 1024  
 Stanley® 9-Way Screwdriver . . . . . 1024  
 Stanley® FatMax® Multi-Bit Ratcheting Screwdriver . . . . . 1023  
 Stanley® Multi-Bit Ratcheting Screwdriver Sets . . . . . 1023  
 Stanley® Stubby Multi-Bit Ratcheting Screwdriver . . . . . 1023

**Offset**

Phillips® Offset Screwdrivers . . . . . 696  
 Slotted Offset Screwdrivers . . . . . 696

**Pocket**

Stanley® 4-In-1 Bi-Material Pocket Driver . . . . . 1024

**Scratch Awl**

Stanley® Wood Handle Scratch Awl . . . . . 1025

**Soft Grip**

Proto® Soft Grip Phillips® Screwdrivers . . . . . 686  
 Proto® Soft Grip Slotted Screwdrivers . . . . . 686

**Stanley**

Stanley® 100 Plus® Cabinet Slotted Tip Screwdrivers . . . . . 1020  
 Stanley® 100 Plus® Cabinet Slotted Tip Screwdrivers . . . . . 1020  
 Stanley® 100 Plus® Phillips® Pocket Screwdrivers With Clip . . . . . 1019  
 Stanley® 100 Plus® Phillips® Tip Screwdrivers . . . . . 1020  
 Stanley® 100 Plus® Phillips® Tip Stubby Screwdriver . . . . . 1021  
 Stanley® 100 Plus® Scratch Awl . . . . . 1021  
 Stanley® 100 Plus® Square Blade  
 Standard Slotted Tip Screwdrivers . . . . . 1020  
 Stanley® 100 Plus® Standard Slotted Tip  
 Pocket Screwdrivers With Clip . . . . . 1019  
 Stanley® 100 Plus® Standard Slotted Tip Screwdrivers . . . . . 1019  
 Stanley® 100 Plus® Standard Slotted Tip Stubby Screwdriver . . . . . 1019  
 Stanley® FatMax® Cabinet Slotted Tip Screwdriver . . . . . 1011  
 Stanley® FatMax® Phillips® Tip Screwdrivers . . . . . 1011  
 Stanley® FatMax® Standard Slotted Tip Screwdrivers . . . . . 1011  
 Stanley® FatMax® Standard Slotted  
 Tip Precision Pocket Screwdrivers . . . . . 1010  
 Stanley® FatMax® Stubby Screwdrivers . . . . . 1010  
 Stanley® FatMax® Torx® Tip Screwdrivers . . . . . 1011  
 Stanley® Standard Fluted Standard Slotted Tip Screwdrivers . . . . . 1016  
 Stanley® Vinyl Grip Cabinet Slotted Tip Screwdrivers . . . . . 1014  
 Stanley® Vinyl Grip Square Blade  
 Standard Slotted Tip Screwdrivers . . . . . 1013  
 Stanley® Vinyl Grip Phillips® Tip Stubby Screwdriver . . . . . 1014  
 Stanley® Vinyl Grip Phillips® Tip Screwdrivers . . . . . 1014  
 Stanley® Vinyl Grip Standard Slotted Tip Screwdrivers . . . . . 1013  
 Stanley® Vinyl Grip Standard Slotted Tip Stubby Screwdriver . . . . . 1013

**Super Proto**

Super Proto® Screwdrivers . . . . . 685

**SAFETY TIP:  
HAMMERS**

Never strike  
one hammer  
with another.



**SHEARS**

Stanley® All-Purpose Shears . . . . . 955

**SNIP SETS**

**Stanley**

3 PC Stanley® Compound Action Aviation Snips Set . . . . . 1060  
 3 PC Stanley® FatMax® Compound Action Aviation Snips Set . . . . . 1060

**SNIPS**

Aviation Snips . . . . . 750  
 Aviation Snips - Offset . . . . . 751  
 Circular Cutting Duckbill Snips . . . . . 750  
 Heavy-Duty Snips . . . . . 750  
 Miniature Snips . . . . . 751  
 Stanley® All-Purpose Snips . . . . . 1060  
 Stanley® FatMax® Compound Action Aviation Snips . . . . . 1059  
 Stanley® FatMax Xtreme® Aviation Snips . . . . . 1059  
 Straight Cutting Snips . . . . . 751

**SOCKET DRIVERS**

**1/4" Drive**

1/4" Drive Socket Driver . . . . . 267, 293  
 1/4" Drive Flexible Driver . . . . . 267, 293

**3/8" Drive**

3/8" Drive Flexible Driver . . . . . 350

**SOCKET SETS**

**1/4" & 3/4" Drive**

99 PC Stanley® 1/4" and 3/8" Drive  
 Fractional/Metric Black Chrome Socket Set . . . . . 1078  
 69 PC Stanley® 1/4" and 3/8" Drive  
 Fractional/Metric Black Chrome Socket Set . . . . . 1079  
 40 PC Stanley® 1/4" and 3/8" Drive  
 Fractional Black Chrome Socket Set . . . . . 1079

**1/4" Drive**

1/4" Drive 37 PC Combination Socket Set - 6 Point . . . . . 271, 272  
 1/4" Drive 29 PC Metric Combination Socket Set - 6 Point . . . . . 273, 274  
 1/4" Drive 25 PC Combination Socket Set - 6 Point . . . . . 275, 276  
 1/4" Drive 25 PC Combination Socket Set - 12 Point . . . . . 277, 278  
 1/4" Drive 19 PC Combination Socket Set  
 - 6 Point and 8 Point . . . . . 279, 279  
 1/4" Drive 17 PC Metric Combination Socket Set - 6 Point . . . . . 280, 280  
 1/4" Drive 15 PC Combination Socket Set - 6 Point . . . . . 281, 281  
 1/4" Drive 12 PC Combination Socket Set - 6 Point . . . . . 282, 282  
 1/4" Drive 12 PC Combination Socket Set - 12 Point . . . . . 283, 283  
 1/4" Drive 12 PC Metric Socket Set - 6 Point . . . . . 286  
 1/4" Drive 12 PC Metric Deep Socket Set - 6 Point . . . . . 287  
 1/4" Drive 11 PC Metric Socket Set - 12 Point . . . . . 284  
 1/4" Drive 11 PC Metric Deep Socket Set - 12 Point . . . . . 285  
 1/4" Drive 10 PC Socket Set - 6 Point . . . . . 286  
 1/4" Drive 10 PC Socket Set - 12 Point . . . . . 284  
 1/4" Drive 10 PC Deep Socket Set - 6 Point . . . . . 287  
 1/4" Drive 10 PC Deep Socket Set - 12 Point . . . . . 285

**1/4" Drive Impact**

1/4" Drive 13 PC Metric Impact Socket Set - 6 Point . . . . . 448  
 1/4" Drive 11 PC Impact Socket Set - 6 Point . . . . . 448  
 1/4" Drive 11 PC Deep Impact Socket Set - 6 Point . . . . . 450  
 1/4" Drive 11 PC Metric Deep Impact Socket Set - 6 Point . . . . . 450  
 1/4" Drive 7 PC Metric Impact Socket Set - 6 Point . . . . . 449  
 1/4" Drive 6 PC Impact Socket Set - 6 Point . . . . . 449

**1/4" Drive Insulated**

Facom® 1/4" Drive 10 PC Metric Insulated Socket Set - 6 Point . . . . . 437

**1/4" & 3/8" Drive**

1/4" & 3/8" Drive 22 PC Socket Set - 6 Point . . . . . 324, 325

**3/8" Drive**

3/8" Drive 58 PC Combination Socket Set - 12 Point . . . . . 305, 307  
 3/8" Drive 57 PC Metric Socket Set - 12 Point . . . . . 315  
 3/8" Drive 57 PC Metric Socket Set - 12 Point - Tools Only . . . . . 317  
 3/8" Drive 33 PC Combination Socket Set - 12 and 8 Point . . . . . 308, 309  
 3/8" Drive 29 PC Metric Combination Socket Set - 6 Point . . . . . 310, 311  
 3/8" Drive 29 PC Metric Combination Socket Set - 12 Point . . . . . 312, 313  
 3/8" Drive 22 PC Socket Set - 6 Point . . . . . 318, 319  
 3/8" Drive 22 PC Socket Set - 12 Point . . . . . 320, 321  
 3/8" Drive 21 PC Metric Socket Set - 6 Point . . . . . 326  
 3/8" Drive 21 PC Metric Socket Set - 12 Point . . . . . 327  
 3/8" Drive 20 PC Metric Socket Set - 12 Point . . . . . 314, 314  
 3/8" Drive 18 PC Metric Deep Socket Set - 6 Point . . . . . 328  
 3/8" Drive 18 PC Metric Deep Socket Set - 12 Point . . . . . 328  
 3/8" Drive 16 PC Metric Socket Set - 12 Point . . . . . 321, 322  
 3/8" Drive 15 PC Socket Set - 12 Point . . . . . 322, 323  
 3/8" Drive 13 PC Black Oxide Socket Set - 12 Point . . . . . 335  
 3/8" Drive 13 PC Deep Socket Set - 6 Point . . . . . 330  
 3/8" Drive 13 PC Deep Socket Set - 12 Point . . . . . 330  
 3/8" Drive 13 PC Socket Set - 6 Point . . . . . 329  
 3/8" Drive 13 PC Socket Set - 12 Point . . . . . 329  
 3/8" Drive 12 PC Metric Deep Socket Set - 6 Point . . . . . 332  
 3/8" Drive 12 PC Metric Deep Socket Set - 12 Point . . . . . 332  
 3/8" Drive 12 PC Metric Socket Set - 6 Point . . . . . 331  
 3/8" Drive 12 PC Metric Socket Set - 12 Point . . . . . 331  
 3/8" Drive 12 PC Socket Set - 6 Point . . . . . 323, 324  
 3/8" Drive 12 PC Socket Set - 12 Point . . . . . 325, 326  
 3/8" Drive 10 PC Deep Socket Set - 6 Point . . . . . 334  
 3/8" Drive 10 PC Deep Socket Set - 12 Point . . . . . 334  
 3/8" Drive 10 PC Socket Set - 6 Point . . . . . 333  
 3/8" Drive 10 PC Socket Set - 12 Point . . . . . 333  
 3/8" Drive 10 PC Stanley® Fractional Socket Set - 6 Point . . . . . 1080  
 3/8" Drive 10 PC Stanley® Metric Socket Set - 6 Point . . . . . 1080  
 3/8" Drive 10 PC Stanley® Metric Deep Socket Set - 6 Point . . . . . 1080  
 3/8" Drive 10 PC Super Short Socket Set - 6 Point . . . . . 335  
 3/8" Drive 9 PC Stanley® Fractional Socket  
 and Extendable Ratchet Set - 12 Point . . . . . 1080

**SAFETY TIP:  
CHISELS**

Use a chisel holder to prevent hand injury.



**3/8" Drive Impact**

3/8" Drive 19 PC Metric Deep Impact Socket Set - 6 Point . . . . . 457  
 3/8" Drive 19 PC Metric Impact Socket Set - 6 Point . . . . . 457  
 3/8" Drive 15 PC Deep Impact Socket Set - 6 Point . . . . . 458  
 3/8" Drive 15 PC Impact Socket Set - 6 Point . . . . . 458





3/8" Drive 13 PC Hand Impact Driver Set . . . . . 459  
 3/8" Drive 12 PC Metric Thin Wall  
     Deep Impact Socket Set - 6 Point . . . . . 459  
 3/8" Drive 11 PC Metric Deep Impact Socket Set - 6 Point . . . . . 460  
 3/8" Drive 11 PC Metric Impact Socket Set - 6 Point . . . . . 460  
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 3/8" Drive 9 PC Deep Impact Socket Set - 6 Point . . . . . 461  
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**3/8" Drive Insulated**

Facom® 3/8" Drive 17 PC Insulated Socket Set - 12 Point . . . . . 438

**1/2" Drive**

1/2" Drive 65 PC Combination Socket Set - 8 and 12 Point . . . . . 367  
 1/2" Drive 54 PC Metric Socket Set - 12 Point . . . . . 373  
 1/2" Drive 54 PC Metric Socket Set With Tool Box - 12 Point . . . . . 371  
 1/2" Drive 31 PC Metric Socket Set - 12 Point . . . . . 375, 376  
 1/2" Drive 30 PC Socket Set - 12 Point . . . . . 377, 378  
 1/2" Drive 29 PC Metric Socket Set - 12 Point . . . . . 379, 380  
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 1/2" Drive 26 PC Socket Set - 12 Point . . . . . 382  
 1/2" Drive 24 PC Metric Socket Set - 12 Point . . . . . 389  
 1/2" Drive 23 PC Metric Deep Socket Set - 12 Point . . . . . 394  
 1/2" Drive 23 PC Metric Socket Set - 6 Point . . . . . 390  
 1/2" Drive 22 PC Metric Socket Set - 12 Point . . . . . 383  
 1/2" Drive 19 PC Deep Socket Set - 6 Point . . . . . 391  
 1/2" Drive 19 PC Deep Socket Set - 12 Point . . . . . 392  
 1/2" Drive 19 PC Socket Set - 6 Point . . . . . 393  
 1/2" Drive 19 PC Socket Set - 12 Point . . . . . 393  
 1/2" Drive 18 PC Socket Set - 6 Point . . . . . 385  
 1/2" Drive 18 PC Socket Set - 12 Point . . . . . 384  
 1/2" Drive 16 PC Metric Socket Set - 12 Point . . . . . 387  
 1/2" Drive 16 PC Socket Set - 12 Point . . . . . 386  
 1/2" Drive 15 PC Black Oxide Socket Set - 12 Point . . . . . 397  
 1/2" Drive 15 PC Deep Socket Set - 12 Point . . . . . 392  
 1/2" Drive 15 PC Metric Deep Socket Set - 12 Point . . . . . 396  
 1/2" Drive 15 PC Metric Socket Set - 6 Point . . . . . 395  
 1/2" Drive 15 PC Metric Socket Set - 12 Point . . . . . 395  
 1/2" Drive 15 PC Socket Set - 6 Point . . . . . 394  
 1/2" Drive 15 PC Socket Set - 12 Point . . . . . 396  
 1/2" Drive 15 PC Stanley® Fractional Socket Set - 12 Point . . . . . 1080  
 1/2" Drive 15 PC Stanley® Metric Socket Set - 12 Point . . . . . 1081  
 1/2" Drive 12 PC Socket Set - 12 Point . . . . . 388  
 1/2" Drive 11 PC Deep Socket Set - 12 Point . . . . . 397  
 1/2" Drive 11 PC Stanley® Metric Deep Socket Set - 6 Point . . . . . 1081  
 1/2" Drive 10 PC Stanley® Metric Socket Set - 6 Point . . . . . 1081  
 1/2" Drive 6 PC Stanley® Metric Deep Socket Set - 6 Point . . . . . 1081

**1/2" Drive Impact**

1/2" Drive 25 PC Metric Impact Socket Set - 6 Point . . . . . 474  
 1/2" Drive 25 PC Metric Deep Impact Socket Set - 6 Point . . . . . 475  
 1/2" Drive 19 PC Deep Impact Socket Set - 6 Point . . . . . 476  
 1/2" Drive 19 PC Impact Socket Set - 6 Point . . . . . 476  
 1/2" Drive 18 PC Metric Deep Impact Socket Set - 6 Point . . . . . 477  
 1/2" Drive 16 PC Stanley® Metric Socket Set - 6 Point . . . . . 1078  
 1/2" Drive 15 PC Deep Impact Socket Set - 6 Point . . . . . 479  
 1/2" Drive 15 PC Deep Thin Wall Impact Socket Set - 6 Point . . . . . 479  
 1/2" Drive 15 PC Impact Socket Set - 6 Point . . . . . 477  
 1/2" Drive 15 PC Impact Metric Thin Wall Socket Set - 6 Point . . . . . 478  
 1/2" Drive 15 PC Metric Deep Impact Socket Set - 6 Point . . . . . 478

1/2" Drive 15 PC Metric Impact Socket Set - 6 Point . . . . . 480  
 1/2" Drive 11 PC Deep Impact Socket Set - 6 Point . . . . . 480  
 1/2" Drive 11 PC Impact Socket Set - 6 Point . . . . . 480  
 1/2" Drive 11 PC Stanley® Fractional  
     Deep Impact Socket Set - 6 Point . . . . . 1082  
 1/2" Drive 11 PC Stanley® Fractional Deep Socket Set - 6 Point . . . . . 1081  
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     Deep Impact Socket Set - 6 Point . . . . . 1082  
 1/2" Drive 10 PC Metric Deep Impact Socket Set - 6 Point . . . . . 481  
 1/2" Drive 10 PC Metric Impact Socket Set - 6 Point . . . . . 481  
 1/2" Drive 10 PC Stanley® Fractional Socket Set - 6 Point . . . . . 1081  
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 1/2" Drive 7 PC Impact Socket Set - 6 Point . . . . . 482  
 1/2" Drive 6 PC Stanley® Fractional Deep Socket Set - 6 Point . . . . . 1081

**1/2" Drive Insulated**

Facom® 1/2" Drive 17 PC Insulated Socket Set - 12 Point . . . . . 441

**3/4" Drive**

3/4" Drive 42 PC Combination Socket Set - 12 and 6 Point . . . . . 422  
 3/4" Drive 29 PC Metric Socket Set - 12 Point . . . . . 423  
 3/4" Drive 28 PC Metric Socket Set - 12 Point . . . . . 424  
 3/4" Drive 20 PC Socket Set - 12 Point . . . . . 425  
 3/4" Drive 19 PC Metric Socket Set - 12 Point . . . . . 426  
 3/4" Drive 13 PC Socket Set - 12 Point . . . . . 426

**3/4" Drive Impact**

3/4" Drive 21 PC Metric Impact Socket Set - 6 Point . . . . . 499  
 3/4" Drive 15 PC Impact Socket Set - 6 Point . . . . . 500  
 3/4" Drive 10 PC Impact Socket Set - 6 Point . . . . . 501  
 3/4" Drive Deep Impact Socket - 4 Point . . . . . 502  
 3/4" Drive Deep Impact Sockets - 6 Point . . . . . 505  
 3/4" Drive Deep Thin Wall Impact Sockets - 6 Point . . . . . 506  
 3/4" Drive Impact Sockets - 4 Point . . . . . 502  
 3/4" Drive Impact Sockets - 6 Point . . . . . 503  
 3/4" Drive Impact Sockets - 8 Point . . . . . 506  
 3/4" Drive Impact Sockets - 12 Point . . . . . 507  
 3/4" Drive Metric Impact Sockets - 6 Point . . . . . 504  
 3/4" Drive Metric Deep Impact Sockets - 6 Point . . . . . 505

**1" Drive**

1" Drive 17 PC Socket Set - 12 Point . . . . . 432  
 1" Drive 22 PC Socket Set - 12 Point . . . . . 432  
 1" Drive 29 PC Socket Set - 12 Point . . . . . 431

**SOCKET, BIT SETS**

**1/4" & 3/8" Drive**

1/4" & 3/8" Drive 11 PC Torx® Bit Set . . . . . 340  
 11 PC Stanley® Torx® Bit Set . . . . . 1082

**1/4" Drive**

1/4" Drive 11 PC Hex Bit Set . . . . . 289  
 1/4" Drive 8 PC Hex Bit Ball End Socket Set . . . . . 289  
 1/4" Drive 6 PC Metric Hex Bit Set . . . . . 289  
 1/4" Drive 6 PC Torx® Bit Set . . . . . 289

**1/4" Drive Impact**

1/4" Drive 7 PC Torx® Impact Socket Set . . . . . 451

**3/8" & 1/2" Drive**

3/8" & 1/2" Drive 10 PC Hex Bit Set . . . . . 337, 338  
 3/8" & 1/2" Drive 10 PC Metric Hex Bit Set . . . . . 337

**3/8" & 1/2" Drive Impact**

3/8" and 1/2" Drive 10 PC Hex Bit Impact Socket Set . . . . . 463

**3/8" Drive**

3/8" Drive 8 PC Torx® Bit Set . . . . . 340  
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 3/8" Drive 7 PC Extra-Long Hex Bit Set . . . . . 339  
 3/8" Drive 7 PC Hex Bit Set . . . . . 338  
 3/8" Drive 7 PC Metric Hex Bit Set . . . . . 339  
 3/8" Drive 7 PC Metric Short Hex Bit Set . . . . . 339  
 3/8" Drive 7 PC Short Hex Bit Set . . . . . 339  
 3/8" Drive 7 PC Stanley® Fractional Hex Bit Socket Set . . . . . 1082  
 3/8" Drive 6 PC Metric Extra-Long Hex Bit Set . . . . . 340  
 3/8" Drive 6 PC Torx® Bit Set . . . . . 340

**3/8" Drive Impact**

3/8" Drive 7 PC Hex Bit Impact Socket Set . . . . . 463  
 3/8" Drive 5 PC Metric Hex Bit Impact Socket Set . . . . . 464  
 3/8" Drive 7 PC Torx® Bit Set . . . . . 462  
 3/8" Drive 7 PC Torx® Impact Socket Set . . . . . 462

**1/2" Drive**

1/2" Drive 6 PC Extra-Long Hex Bit Set . . . . . 399  
 1/2" Drive 6 PC Metric Hex Bit Set . . . . . 399  
 1/2" Drive 7 PC Hex Bit Set . . . . . 398  
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**1/2" Drive Impact**

1/2" Drive 7 PC Hex Bit Impact Socket Set . . . . . 483  
 1/2" Drive 6 PC Metric Hex Bit Impact Socket Set . . . . . 484  
 1/2" Drive Impact Hex Bit Sockets . . . . . 494  
 1/2" Drive Metric Impact Hex Bit Sockets . . . . . 495  
 1/2" Drive Torx® Impact Sockets . . . . . 495

**3/4" Drive Impact**

3/4" Drive 5 PC Impact Hex Bit Set . . . . . 501  
 3/4" Drive Impact Hex Bit Sockets . . . . . 508

**SAFETY TIP:  
PLIERS**

Pliers should not be used for cutting hardened wire, unless specifically manufactured for this purpose.



**SOCKETS**

**#5 Spline Budd Wheel**

#5 Spline Drive Budd Wheel Deep Impact Socket . . . . . 525

**#5 Spline Drive Impact**

#5 Spline Drive Impact Sockets - 6 Point . . . . . 524

**1/4" Drive**

1/4" Drive Deep Sockets - 6 Point . . . . . 297  
 1/4" Drive Deep Sockets - 12 Point . . . . . 299  
 1/4" Drive Deep Sockets - Spline . . . . . 301

1/4" Drive Metric Deep Sockets - 6 Point . . . . . 297  
 1/4" Drive Metric Deep Sockets - 12 Point . . . . . 300  
 1/4" Drive Metric Sockets - 6 Point . . . . . 296  
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 1/4" Drive Sockets - 6 Point . . . . . 296  
 1/4" Drive Sockets - 8 Point . . . . . 298  
 1/4" Drive Sockets - 12 Point . . . . . 298  
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**1/4" Drive Impact**

1/4" Drive Impact Sockets - 6 Point . . . . . 452  
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     Magnetic Impact Sockets - 6 Point . . . . . 455  
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**1/4" Drive Insulated**

Facom® 1/4" Drive Insulated Sockets - 6 Point . . . . . 438

**1/4" High Strength Power**

1/4" Drive High Strength Magnetic Power Sockets - 6 Point . . . . . 526  
 1/4" Drive Metric High Strength Magnetic Power Sockets - 6 Point . . . . . 526

**3/8" Drive**

3/8" Drive Black Oxide Sockets - 12 Point . . . . . 356  
 3/8" Drive Deep Black Oxide Sockets - 12 Point . . . . . 358  
 3/8" Drive Deep Sockets - 6 Point . . . . . 354  
 3/8" Drive Deep Sockets - 12 Point . . . . . 357  
 3/8" Drive Deep Sockets - Spline . . . . . 358  
 3/8" Drive Metric Deep Sockets - 6 Point . . . . . 354  
 3/8" Drive Metric Deep Sockets - 12 Point . . . . . 357  
 3/8" Drive Metric Sockets - 6 Point . . . . . 353  
 3/8" Drive Metric Sockets - 12 Point . . . . . 356  
 3/8" Drive Sockets - 6 Point . . . . . 352  
 3/8" Drive Sockets - 8 Point . . . . . 355  
 3/8" Drive Sockets - 12 Point . . . . . 355  
 3/8" Drive Sockets - Spline . . . . . 358  
 3/8" Drive Super Short Sockets - 6 Point . . . . . 355

**3/8" Drive Impact**

3/8" Drive Deep Impact Sockets - 6 Point . . . . . 467  
 3/8" Drive Deep Thin Wall Impact Sockets - 6 Point . . . . . 468  
 3/8" Drive High Strength Magnetic Impact Sockets - 6 Point . . . . . 469  
 3/8" Drive Impact Sockets - 6 Point . . . . . 466  
 3/8" Drive Impact Sockets - 8 Point . . . . . 470  
 3/8" Drive Metric Deep Impact Sockets - 6 Point . . . . . 467  
 3/8" Drive Metric Deep Thin Wall Impact Sockets - 6 Point . . . . . 468  
 3/8" Drive Metric High Strength  
     Magnetic Impact Sockets - 6 Point . . . . . 469  
 3/8" Drive Metric Impact Sockets - 6 Point . . . . . 466

**3/8" Drive Insulated**

Facom® 3/8" Drive Metric Deep Insulated Sockets - 12 Point . . . . . 440  
 Facom® 3/8" Drive Metric Insulated Sockets - 12 Point . . . . . 440

**3/8" High Strength Power**

3/8" Drive High Strength Magnetic Power Sockets - 6 Point . . . . . 527  
 3/8" Drive Metric High Strength Magnetic Power Sockets - 6 Point . . . . . 527

**1/2" Drive**

1/2" Drive Black Oxide Sockets - 12 Point . . . . . 414







1/2" Drive Black Oxide Deep Sockets - 12 Point . . . . .	416	1-1/2" Drive Metric Impact Sockets - 6 Point. . . . .	519
1/2" Drive Deep Sockets - 6 Point . . . . .	411	<b>2-1/2" Drive Impact</b>	
1/2" Drive Deep Sockets - 12 Point . . . . .	414	2-1/2" Drive Impact Sockets - 6 Point . . . . .	522
1/2" Drive Deep Sockets - Spline . . . . .	417	<b>SOCKETS, BIT</b>	
1/2" Drive Metric Deep Sockets - 12 Point . . . . .	415	<b>1/4" Drive</b>	
1/2" Drive Metric Sockets - 6 Point . . . . .	410	1/4" Drive Ball End Hex Bit Sockets . . . . .	304
1/2" Drive Metric Sockets - 12 Point . . . . .	413	1/4" Drive Hex Bit Sockets . . . . .	303
1/2" Drive Sockets - 6 Point. . . . .	409	1/4" Drive Metric Hex Bit Sockets . . . . .	303
1/2" Drive Sockets - 8 Point. . . . .	411	1/4" Drive Phillips® Screwdriver Bit Sockets . . . . .	303
1/2" Drive Sockets - 12 Point . . . . .	412	1/4" Drive Slotted Screwdriver Bit Sockets. . . . .	303
1/2" Drive Sockets - Spline . . . . .	416	1/4" Drive Torx® Screwdriver Bit Sockets . . . . .	303
<b>1/2" Drive Impact</b>		<b>1/4" Drive Impact</b>	
1/2" Drive Deep Impact Sockets - 6 Point . . . . .	487	1/4" Drive Torx® Impact Sockets. . . . .	456
1/2" Drive Deep Impact Sockets - 8 Point . . . . .	491	<b>1/4" Drive Insulated</b>	
1/2" Drive Deep Impact Sockets - 12 Point. . . . .	493	Facom® 1/4" Drive Insulated Hex Bit Sockets. . . . .	438
1/2" Drive Deep Thin Wall Impact Sockets - 6 Point. . . . .	489	<b>3/8" Drive</b>	
1/2" Drive High Strength Magnetic Impact Sockets - 6 Point . . . . .	493	3/8" Drive Ball End Extra-Long Hex Bit Sockets. . . . .	362
1/2" Drive Impact Sockets - 8 Point . . . . .	491	3/8" Drive Extra-Long Hex Bit Sockets . . . . .	362
1/2" Drive Impact Sockets - 12 Point . . . . .	492	3/8" Drive Hex Bit Sockets . . . . .	362
1/2" Drive Impact Sockets - 6 Point . . . . .	485	3/8" Drive Metric Extra-Long Hex Bit Sockets . . . . .	363
1/2" Drive Metric Deep Impact Sockets - 6 Point . . . . .	488	3/8" Drive Metric Hex Bit Sockets . . . . .	363
1/2" Drive Metric Deep Thin Wall Impact Sockets - 6 Point . . . . .	490	3/8" Drive Metric Short Hex Bit Sockets . . . . .	363
1/2" Drive Metric High Strength Magnetic Impact Sockets - 6 Point . . . . .	494	3/8" Drive Phillips® Screwdriver Bit Sockets . . . . .	361
1/2" Drive Metric Impact Sockets - 6 Point. . . . .	486	3/8" Drive Short Hex Bit Sockets . . . . .	362
1/2" Drive Metric Impact Sockets - 12 Point . . . . .	492	3/8" Drive Slotted Screwdriver Bit Sockets. . . . .	361
1/2" Drive Power Socket - 6 Point . . . . .	490	3/8" Drive Torx® Screwdriver Bit Sockets . . . . .	361
Cotton Picker Socket . . . . .	490	<b>3/8" Drive Impact</b>	
<b>1/2" Drive Insulated</b>		3/8" Drive Impact Hex Bit Sockets. . . . .	470
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Facom® 1/2" Drive Metric Insulated Sockets - 12 Point . . . . .	442	3/8" Drive Torx® Impact Sockets. . . . .	471
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1/2" Drive High Strength Magnetic Power Sockets - 6 Point. . . . .	527	Facom® 3/8" Drive Insulated Hex Bit Sockets. . . . .	440
<b>3/4" Drive</b>		<b>1/2" Drive</b>	
3/4" Drive Deep Sockets - 6 Point . . . . .	428	1/2" Drive Extra-Long Hex Bit Sockets . . . . .	420
3/4" Drive Metric Sockets - 12 Point . . . . .	430	1/2" Drive Hex Bit Sockets . . . . .	419
3/4" Drive Sockets - 12 Point . . . . .	429	1/2" Drive Metric Hex Bit Sockets . . . . .	420
3/4" Drive Sockets - Spline . . . . .	430	1/2" Drive Metric Extra-Long Hex Bit Sockets . . . . .	420
<b>3/4" Drive Budd Wheel</b>		1/2" Drive Phillips® Screwdriver Bit Sockets . . . . .	419
3/4" Drive Budd Wheel Deep Socket. . . . .	509	1/2" Drive Slotted Screwdriver Bit Sockets. . . . .	419
<b>1" Drive</b>		<b>1/2" Drive Insulated</b>	
1" Drive Metric Sockets - 12 Point . . . . .	435	Facom® 1/2" Drive Insulated Hex Bit Sockets. . . . .	442
1" Drive Sockets - 12 Point . . . . .	434	<b>SOCKETS, DRAG LINK</b>	
1" Drive Sockets - Spline . . . . .	435	<b>1/2" Drive</b>	
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<b>1" Drive Impact</b>		3/8" Drive Drag Link Socket. . . . .	361
1" Drive Deep Impact Sockets - 6 Point . . . . .	514	<b>SOCKET, IMPACT RETAINING RINGS</b>	
1" Drive Metric Impact Sockets - 6 Point. . . . .	513	<b>3/8" Drive</b>	
1" Drive Impact Sockets - 4 Point . . . . .	511	3/8" Drive Retaining Rings . . . . .	473
1" Drive Impact Sockets - 8 Point . . . . .	511	<b>1/2" Drive</b>	
1" Drive Impact Sockets - 6 Point . . . . .	512	1/2" Drive Retaining Rings . . . . .	498
<b>1-1/2" Drive Impact</b>			
1-1/2" Drive Deep Impact Sockets - 6 Point . . . . .	519		
1-1/2" Drive Impact Sockets - 6 Point . . . . .	518		





**3/4" Drive**

3/4" Drive Retaining Rings . . . . . 510  
 3/4" Drive Impact Socket Retaining Pin . . . . . 510

**1" Drive Impact**

1" Drive Retaining Rings . . . . . 517  
 1" Drive Retaining Pins . . . . . 517

**1-1/2" Drive**

1-1/2" Drive Retaining Rings . . . . . 521

**2-1/2" Drive**

2-1/2" Drive Retaining Pin . . . . . 523

**SOCKETS, SPARK PLUG**

**1/2" Drive**

1/2" Drive Spark Plug Sockets - 6 Point . . . . . 418

**3/8" Drive**

3/8" Drive 7 PC Stanley® Metric Hex Bit Socket Set . . . . . 1082  
 3/8" Drive 3 PC Stanley® Spark Plug Socket Set . . . . . 1084  
 3/8" Drive Spark Plug Sockets - 6 Point . . . . . 360  
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**SOCKETS, UNIVERSAL SETS**

**1/4" Drive**

1/4" Drive 12 PC Metric Universal Socket Set - 6 Point . . . . . 288  
 1/4" Drive 9 PC Universal Socket Set - 12 Point . . . . . 288  
 1/4" Drive 5 PC Universal Socket Set - 12 Point . . . . . 288

**1/4" Drive Impact**

1/4" Drive 9 PC Metric Impact Universal Socket Set - 12 Point . . . . . 451

**3/8" Drive**

3/8" Drive 10 PC Metric Universal Socket Set - 6 Point . . . . . 336  
 3/8" Drive 7 PC Metric Universal Socket Set - 12 Point . . . . . 336  
 3/8" Drive 7 PC Universal Socket Set - 12 Point . . . . . 336  
 3/8" Drive 7 PC Universal Socket Set - 6 Point . . . . . 337

**3/8" Drive Impact**

3/8" Drive 10 PC Deep Metric Impact  
 Universal Socket Set - 6 Point . . . . . 465  
 3/8" Drive 10 PC Metric Impact Universal Socket Set - 6 Point . . . . . 464  
 3/8" Drive 10 PC Metric Universal Impact Socket Set - 12 Point . . . . . 465  
 3/8" Drive 5 PC Impact Universal Socket Set - 6 Point . . . . . 464

**1/2" Drive Impact**

1/2" Drive 8 PC Deep Universal Impact Socket Set - 6 Point. . . . . 482  
 1/2" Drive 7 PC Metric Deep Impact  
 Universal Socket Set - 6 Point . . . . . 482  
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**SOCKETS, UNIVERSAL**

**1/4" Drive**

1/4" Drive Metric Universal Joints - 6 Point . . . . . 302  
 1/4" Drive Universal Joints - 6 Point. . . . . 301  
 1/4" Drive Universal Joints - 12 Point . . . . . 302

**1/4" Drive Impact**

1/4" Drive Metric Universal Impact Sockets - 12 Point . . . . . 456  
 1/4" Drive Universal Impact Sockets - 12 Point. . . . . 455

**3/8" Drive**

3/8" Drive Deep Universal Sockets - 6 Point . . . . . 359  
 3/8" Drive Metric Universal Sockets - 6 Point . . . . . 359  
 3/8" Drive Metric Universal Sockets - 12 Point . . . . . 360  
 3/8" Drive Universal Sockets - 6 Point . . . . . 359  
 3/8" Drive Universal Sockets - 12 Point . . . . . 360

**3/8" Drive Impact**

3/8" Drive Impact Universal Sockets - 6 Point . . . . . 471  
 3/8" Drive Metric Deep Universal Impact Sockets - 6 Point . . . . . 472  
 3/8" Drive Metric Impact Universal Sockets - 6 Point . . . . . 471  
 3/8" Drive Metric Universal Impact Sockets - 12 Point . . . . . 472

**1/2" Drive**

1/2" Drive Metric Universal Sockets - 6 Point . . . . . 417  
 1/2" Drive Universal Sockets - 12 Point . . . . . 418

**1/2" Drive Impact**

1/2" Drive Deep Universal Impact Sockets - 6 Point. . . . . 497  
 1/2" Drive Impact Universal Sockets - 6 Point . . . . . 496  
 1/2" Drive Metric Deep Universal Impact Sockets - 6 Point . . . . . 497  
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**SAFETY TIP:  
 SCREWDRIVERS**

Do not expose a screwdriver to excessive heat or cold.

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**SAFETY TIP:  
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Be careful of the sharp edges on the cutting edges of these tools.



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**SAFETY TIP:**  
**CHISELS**

Always shield the cutting edge when not in use.



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Ratcheting Double Box Wrenches - 6 Point. . . . . 574

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    Non-Reversible Ratcheting Wrenches - Spline . . . . . 566

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Ratcheting Flare Nut Wrenches - 12 Point . . . . . 577

Black Oxide Ratcheting Flare Nut Wrenches - 12 Point . . . . . 646

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Metric Offset Reversible Ratcheting

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Offset Reversible Ratcheting Double Box Wrenches - 6 Point . . . . . 569

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Facom® Short Satin Open End Wrenches. . . . . 617

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Facom® Adjustable Heavy-Duty Hook Wrenches . . . . . 664

Facom® Heavy-Duty Metric Hook Spanner Wrenches . . . . . 663

Facom® Metric Hinged Hook Spanner Wrenches . . . . . 663

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**WRENCH SETS, CROWFOOT**

**1/4" Drive**

1/4" Drive 6 PC Crowfoot Wrench Set . . . . . 290, 627

1/4" Drive 7 PC Metric Crowfoot Wrench Set . . . . . 290, 628

1/4" Drive 8 PC Crowfoot Wrench Set

    With Locking Extensions . . . . . 290, 628

**3/8" Drive**

3/8" Drive 9 PC Crowfoot Wrench Set . . . . . 346, 633

3/8" Drive 15 PC Crowfoot Wrench Set . . . . . 345, 632

3/8" Drive 16 PC Metric Crowfoot Wrench Set. . . . . 345, 632

3/8" Drive 27 PC Crowfoot Wrench Set . . . . . 344, 631

3/8" Drive 43 PC Crowfoot Wrench Set . . . . . 343, 630

3/8" Drive 53 PC Crowfoot Wrench Set . . . . . 341, 629

**3/8" Drive Flare Nut**

3/8" Drive 8 PC Crowfoot Flare Nut Wrench Set . . . . . 346, 637

**1/2" Drive**

1/2" Drive 15 PC Crowfoot Wrench Set . . . . . 401, 634

1/2" Drive 22 PC Crowfoot Wrench Set . . . . . 401, 633

**1/2" Drive Flare Nut**

1/2" Drive 39 PC Flare Nut Crowfoot Wrench Set . . . . . 400, 638

1/2" Drive 15 PC Crowfoot Flare Nut Wrench Set . . . . . 402, 639



**SAFETY TIP:  
CHISELS**

Do not use a  
damaged chisel.  
Replace.



**WRENCHES, CROWFOOT**

**1/4" Drive**

1/4" Drive Crowfoot Wrenches . . . . . 304, 634  
 1/4" Drive Full Polish Metric Crowfoot Wrenches . . . . . 304, 634

**3/8" Drive**

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 3/8" Drive Full Polish Metric Crowfoot Wrenches . . . . . 365, 636

**3/8" Drive Flare Nut**

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**1/2" Drive Flare Nut**

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**SAFETY TIP:  
SNIPS**



Use only hand pressure for cutting. Never hammer or use foot to get extra pressure on the cutting edges.

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**SAFETY TIP:  
PLIERS**

Never expose pliers to excessive heat. This may draw the temper and ruin the tool.



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34-812	076174348125	918
39-130	076174391305	915

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<b>PART #</b>	<b>UPC/UIC</b>	<b>PAGE</b>
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42-193	076174421934	927
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42-287	076174422870	927
42-291	076174422917	927
42-294	076174422948	927
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42-480	076174424805	924
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43-679	076174436792	923
45-011	076174450118	932
45-105	076174451054	931
45-300	076174453003	933
45-500	076174455007	933
45-910	076174459104	933
45-912	076174459128	933
46-012	076174460124	936
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46-053	076174460537	934
46-060	076174460605	935
46-067	076174460674	934
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47-099	076174470994	929
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47-482L	076174474824	928
47-487L	076174474879	928
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47-505	076174475050	931
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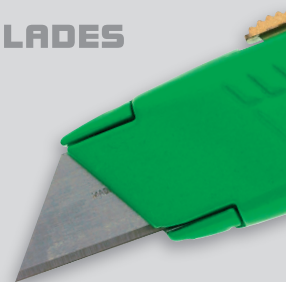
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51-104	076174511048	978
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51-613	076174516135	972
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51-621	076174516210	972
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51-713	076174517132	972
51-716	076174517163	972
51-941	076174519419	969
51-942	076174519426	969
51-943	076174519433	969
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55-045	076174550450	982
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55-101	076174551013	983
55-102	076174551020	983
55-104	076174551044	983
55-113	076174551136	984

## SAFETY TIP: KNIFES AND BLADES

When making cuts on a surface below you, stand or kneel to one side of the line of the cut.



55-114	076174551143	984
55-115	076174551150	984
55-116	076174551167	984
55-117	076174551174	984
55-118	076174551181	983
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55-504	076174555042	982
55-515	076174555158	982
55-525	076174555257	982
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56-701	076174567014	975
56-703	076174567038	976
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			66-052	076174660524	1025
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PART #	UPC/UIC	PAGE
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69-189	076174691894	1023

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<b>PART #</b>	<b>UPC/UIC</b>	<b>PAGE</b>
77-018	076174770186	938
77-050	076174770506	938
77-500	076174775006	936

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<b>PART #</b>	<b>UPC/UIC</b>	<b>PAGE</b>
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83-069M	076174830699	1061
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84-026	076174840261	1054
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85-753	076174857535	1026
85-762	076174857627	1062
85-763	076174857634	1062
85-764	076174857641	1062



**SAFETY TIP:  
SCREWDRIVERS**

Never use a screwdriver on a work piece held in your hand.

A slip could cause serious injury.



85-783	076174857832	1064
85-890	076174858907	1067
85-891	076174858914	1067
85-892	076174858921	1067
85-919	076174859195	1080
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86-258	076174401677	1083
86-406	076174402117	1083
86-407	076174402124	1083
86-408	076174404920	1083
86-411	076174402131	1083
86-413	076174402148	1067
86-414	076174402155	1084
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86-834	076174402353	1063
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86-842	076174402438	1063
86-843	076174402445	1063
86-844	076174402452	1063
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86-846	076174402476	1064
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87-245	076174872453	1066

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87-369	076174873696	1062
87-471	076174874716	1062
87-473	076174874730	1062
87-622	076174876222	1066
87-624	076174876246	1066
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87-715	076174405576	1067
87-720	076174405002	1067
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89-962	076174899627	1067

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PART #	UPC/UIC	PAGE
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94-966	076174949667	1081
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95-112B	076174706482	1047
95-113X	076174951134	1048
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95-145M	use Stanley part #	1048
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95-152	076174951523	1049
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95-442	076174954425	1080
95-443	076174954432	1081
95-444	076174954449	1081
95-446	076174954463	1081
95-935	076174959352	1027
95-937	076174959376	1027
95-961	076174959611	1027
95-982	076174959826	1027
96-010	076174960105	1073
96-011	076174960112	1069
97-125	076174971255	1082
97-126	076174971262	1082
97-484	076174974843	1085
97-489	076174974898	1085
97-542	076174975420	1073
97-543	076174975437	1070

**C**

PART #	UPC/UIC	PAGE
CT106T	076174058475	1003
CT107T	076174058482	1003
CT108T	076174058499	1003
CT109T	076174051698	1003
CT10X	076174051001	999
CT306T	076174051612	1003
CT308T	076174058468	1003

**D**

PART #	UPC/UIC	PAGE
DIYBK	662679473624	53
DIYBL	662679473631	53

**F**

PART #	UPC/UIC	PAGE
FA-105.230	662679982102	657, 845, 892
FA-105.280	662679982119	657, 845, 892
FA-105.375	662679982126	657, 845, 892
FA-113.10TAVSE	662679983666	657, 862
FA-113.12TAVSE	662679983673	657, 862
FA-113.15TAVSE	662679983680	657, 862
FA-113.8TAVSE	662679983697	657, 862
FA-115A.100	662679982157	664
FA-115A.200	662679982164	664
FA-115A.50	662679982140	664
FA-116.100	662679982188	664
FA-116.100E1	662679982393	665
FA-116.100E2	662679982409	665
FA-116.200	662679982195	664
FA-116.200E1	662679982416	665
FA-116.200E2	662679982423	665
FA-116.50	662679982171	664
FA-116.50E1	662679982379	665
FA-116.50E2	662679982386	665
FA-117.B	662679982201	661
FA-117.E1	662679982430	662
FA-117.E2	662679982447	662
FA-117.E3	662679982454	662
FA-117.E4	662679982461	662
FA-118.EC4	662679982478	662
FA-118.EC5	662679982485	662
FA-118.EC8	662679982508	662
FA-118A	662679982218	662
FA-119.3/4	662679987480	663
FA-119.3/8	662679987473	663
FA-125A.120	662679982256	663
FA-125A.180	662679982263	663
FA-125A.35	662679982225	663
FA-125A.50	662679982232	663
FA-125A.80	662679982249	663
FA-126.E120	662679982355	665
FA-126.E180	662679982362	665
FA-126.E35	662679982324	665
FA-126.E50	662679982331	665
FA-126.E80	662679982348	665
FA-126A.120	662679982300	665



FA-126A.180 . . . . .	662679982317 . . . . .	665
FA-126A.35 . . . . .	662679982270 . . . . .	665
FA-126A.50 . . . . .	662679982287 . . . . .	665
FA-126A.80 . . . . .	662679982294 . . . . .	665
FA-180.VE . . . . .	662679985318 . . . . .	740, 865
FA-180.VSE . . . . .	662679983703 . . . . .	743, 868
FA-185.20AVSE . . . . .	662679983727 . . . . .	743, 868
FA-185.20VE . . . . .	662679985332 . . . . .	740, 865
FA-187.16AVSE . . . . .	662679983734 . . . . .	743, 868
FA-187.16VE . . . . .	662679985349 . . . . .	741, 866
FA-187.18AVSE . . . . .	662679983741 . . . . .	743, 868
FA-187.18VE . . . . .	662679985356 . . . . .	741, 866
FA-187.20AVSE . . . . .	662679983758 . . . . .	743, 868
FA-188.16AVSE . . . . .	662679983765 . . . . .	743, 869
FA-188.16VE . . . . .	662679985363 . . . . .	741, 866
FA-188.20VE . . . . .	662679985370 . . . . .	741, 866
FA-189.17AVSE . . . . .	662679983772 . . . . .	744, 869
FA-189.17VE . . . . .	662679985387 . . . . .	741, 866
FA-190.16AVSE . . . . .	662679983789 . . . . .	745, 870
FA-190.16VE . . . . .	662679985394 . . . . .	742, 867
FA-192.14AVSE . . . . .	662679983796 . . . . .	745, 870
FA-192.14VE . . . . .	662679985400 . . . . .	742, 867
FA-192.16AVSE . . . . .	662679983802 . . . . .	745, 870
FA-192.16VE . . . . .	662679985417 . . . . .	742, 867
FA-192.18AVSE . . . . .	662679983819 . . . . .	745, 870
FA-192.18VE . . . . .	662679985424 . . . . .	742, 867
FA-193.16AVSE . . . . .	662679983826 . . . . .	743, 868
FA-193.16VE . . . . .	662679985431 . . . . .	740, 865
FA-194.17AVSE . . . . .	662679983833 . . . . .	744, 869
FA-194.17VE . . . . .	662679985448 . . . . .	741, 866
FA-195.16VE . . . . .	662679985455 . . . . .	742, 867
FA-195.20AVSE . . . . .	662679983840 . . . . .	744, 869
FA-195.20VE . . . . .	662679985462 . . . . .	742, 867
FA-286A . . . . .	662679983475 . . . . .	844
FA-286A.PL . . . . .	662679983482 . . . . .	844
FA-287B.10 . . . . .	662679983536 . . . . .	844
FA-287B.12 . . . . .	662679983543 . . . . .	844
FA-287B.14 . . . . .	662679983550 . . . . .	844
FA-287B.16 . . . . .	662679983567 . . . . .	844
FA-287B.6 . . . . .	662679983499 . . . . .	844
FA-287B.7 . . . . .	662679983505 . . . . .	844
FA-287B.8 . . . . .	662679983512 . . . . .	844
FA-287B.9 . . . . .	662679983529 . . . . .	844
FA-287B.JS5 . . . . .	662679983574 . . . . .	844
FA-289 . . . . .	662679983659 . . . . .	845
FA-289.19 . . . . .	662679983581 . . . . .	845
FA-289.36 . . . . .	662679983604 . . . . .	845
FA-289.V3 . . . . .	662679983642 . . . . .	845
FA-391.16AVSE . . . . .	662679983901 . . . . .	745, 871
FA-391.16VE . . . . .	662679985479 . . . . .	742, 867
FA-412.10AVSE . . . . .	662679983918 . . . . .	744, 870
FA-412.14AVSE . . . . .	662679983925 . . . . .	744, 870
FA-412.150AVSE . . . . .	662679983932 . . . . .	744, 870
FA-414.45AVSE . . . . .	662679983956 . . . . .	745, 870
FA-414.52AVSE . . . . .	662679983963 . . . . .	745, 870
FC-2180B.VSE . . . . .	662679983857 . . . . .	245, 856
FC-2184C.VSE . . . . .	662679983864 . . . . .	242, 853
FC-2185C.VSE . . . . .	662679983871 . . . . .	244, 855

**SAFETY TIP:  
HAMMERS**

Always use a hammer of suitable size and weight for the job. Do not use a tack hammer to drive a spike, nor a sledge to drive a tack.



FC-2187C.VSE . . . . .	662679983888 . . . . .	243, 854
FC-J.401AVSE . . . . .	662679984816 . . . . .	438, 858
FC-R.400AVSE . . . . .	662679984953 . . . . .	437, 857
FC-S.401AVSE . . . . .	662679985233 . . . . .	441
FF-22.1/2X9/16 . . . . .	662679987305 . . . . .	617
FF-22.11/32X7/ . . . . .	662679987312 . . . . .	617
FF-22.3/16X1/4 . . . . .	662679987329 . . . . .	617
FF-22.5/16X3/8 . . . . .	662679987336 . . . . .	617
FF-22.7/32X9/3 . . . . .	662679987343 . . . . .	617
FF-22.JU5T . . . . .	662679981341 . . . . .	616
FF-66A.1/2X9/1 . . . . .	662679987503 . . . . .	601
FF-66A.3/8X7/1 . . . . .	662679987497 . . . . .	601
FF-66A.5/8X3/4 . . . . .	662679987510 . . . . .	601
FF-66A.JU3 . . . . .	662679983185 . . . . .	600
FF-75.1 . . . . .	662679981761 . . . . .	602
FF-75.1/2 . . . . .	662679987398 . . . . .	602
FF-75.1/4 . . . . .	662679987350 . . . . .	602
FF-75.11/16 . . . . .	662679987428 . . . . .	602
FF-75.13/16 . . . . .	662679987442 . . . . .	602
FF-75.15/16 . . . . .	662679987466 . . . . .	602
FF-75.3/4 . . . . .	662679987435 . . . . .	602
FF-75.3/8 . . . . .	662679987374 . . . . .	602
FF-75.5/16 . . . . .	662679987367 . . . . .	602
FF-75.5/8 . . . . .	662679987411 . . . . .	602
FF-75.7/16 . . . . .	662679987381 . . . . .	602
FF-75.7/8 . . . . .	662679987459 . . . . .	602
FF-75.9/16 . . . . .	662679987404 . . . . .	602
FF-75.JU10 . . . . .	662679981778 . . . . .	601
FM-22.10X11 . . . . .	662679981273 . . . . .	617
FM-22.12X13 . . . . .	662679981280 . . . . .	617
FM-22.3.2X5.5 . . . . .	662679981297 . . . . .	617
FM-22.4X5 . . . . .	662679981303 . . . . .	617
FM-22.6X7 . . . . .	662679981310 . . . . .	617
FM-22.8X9 . . . . .	662679981327 . . . . .	617
FM-22.JE6T . . . . .	662679981334 . . . . .	616
FM-31.10X11 . . . . .	662679981372 . . . . .	622
FM-31.12X13 . . . . .	662679981389 . . . . .	622
FM-31.14X15 . . . . .	662679981396 . . . . .	622
FM-31.16X17 . . . . .	662679981402 . . . . .	622
FM-31.18X19 . . . . .	662679981419 . . . . .	622
FM-31.6X7 . . . . .	662679981358 . . . . .	622
FM-31.8X9 . . . . .	662679981365 . . . . .	622
FM-31.JE6T . . . . .	66267998271 . . . . .	622
FM-34.10 . . . . .	662679981549 . . . . .	621
FM-34.11 . . . . .	662679981556 . . . . .	621



FM-34.12	662679981563	621
FM-34.13	662679981570	621
FM-34.14	662679981587	621
FM-34.15	662679981594	621
FM-34.16	662679981600	621
FM-34.17	662679981617	621
FM-34.3.2	662679981464	621
FM-34.4	662679981471	621
FM-34.5	662679981488	621
FM-34.5.5	662679981495	621
FM-34.6	662679981501	621
FM-34.7	662679981518	621
FM-34.8	662679981525	621
FM-34.9	662679981532	621
FM-34.JL16T	662679981624	620
FM-39.10	662679982591	594
FM-39.11	662679982607	594
FM-39.12	662679982614	594
FM-39.13	662679982621	594
FM-39.14	662679982638	594
FM-39.15	662679982645	594
FM-39.16	662679982652	594
FM-39.17	662679982669	594
FM-39.3.2H	662679982515	593
FM-39.4H	662679982522	593
FM-39.5.5H	662679982546	593
FM-39.5H	662679982539	593
FM-39.6	662679982553	594
FM-39.7	662679982560	594
FM-39.8	662679982577	594
FM-39.9	662679982584	594
FM-39.JE16T	662679982690	589
FM-45.30	662679981631	653
FM-45.32	662679981648	653
FM-45.34	662679981655	653
FM-45.36	662679981662	653
FM-45.38	662679981679	653
FM-45.41	662679981686	653
FM-45.46	662679981693	653
FM-45.50	662679981709	653
FM-45.55	662679981716	653
FM-45.60	662679981723	653
FM-45.65	662679981730	653
FM-45.70	662679981747	653
FM-45.75	662679981754	653
FM-46.10AVSE	662679983970	627, 861
FM-46.11AVSE	662679983987	627, 861
FM-46.12AVSE	662679983994	627, 861
FM-46.13AVSE	662679984007	627, 861
FM-46.14AVSE	662679984014	627, 861
FM-46.15AVSE	662679984021	627, 861
FM-46.16AVSE	662679984038	627, 861
FM-46.17AVSE	662679984045	627, 861
FM-46.18AVSE	662679984052	627, 861
FM-46.19AVSE	662679984069	627, 861
FM-46.21AVSE	662679984076	627, 861
FM-46.8AVSE	662679984083	627, 861
FM-46.9AVSE	662679984090	627, 861
FM-54.M1B	662679983024	654

## SAFETY TIP: SCREWDRIVERS

Make sure the tip fits  
the slot of the screw.



FM-54.M2B	662679983031	654
FM-54.M3B	662679983048	654
FM-54.M4B	662679983055	654
FM-54.P9M	662679983062	653
FM-54A.24	662679982911	654
FM-54A.30	662679982928	654
FM-54A.32	662679982935	654
FM-54A.36	662679982942	654
FM-54A.41	662679982959	654
FM-54A.46	662679982966	654
FM-54A.50	662679982973	654
FM-54A.55	662679982980	654
FM-54A.60	662679982997	654
FM-54A.65	662679983000	654
FM-54A.70	662679983017	654
FM-55.10AVSE	662679984106	612, 861
FM-55.11AVSE	662679984113	612, 861
FM-55.12AVSE	662679984120	612, 861
FM-55.13AVSE	662679984137	612, 861
FM-55.14AVSE	662679984144	612, 861
FM-55.15AVSE	662679984151	612, 861
FM-55.16AVSE	662679984168	612, 861
FM-55.17AVSE	662679984175	612, 861
FM-55.18AVSE	662679984182	612, 861
FM-55.19AVSE	662679984199	612, 861
FM-55.21AVSE	662679984205	612, 861
FM-55.8AVSE	662679984212	612, 861
FM-55.9AVSE	662679984229	612, 861
FM-57.10X12	662679982829	611
FM-57.11X13	662679982836	611
FM-57.13X15	662679982843	611
FM-57.14X16	662679982850	611
FM-57.14X17	662679982867	611
FM-57.15X17	662679982874	611
FM-57.16X18	662679982881	611
FM-57.19X22	662679982898	611
FM-57.JE5	662679982904	606
FM-59.10X11	662679982720	607
FM-59.12X13	662679982737	607
FM-59.14X15	662679982744	607
FM-59.16X17	662679982751	607
FM-59.18X19	662679982768	607
FM-59.21X23	662679982775	607
FM-59.22X24	662679982782	607
FM-59.26X28	662679982799	607





FM-59.27X29 . . . . .	662679982805 . . . . .	607	FM-94T.11AVSE . . . . .	662679984359 . . . . .	700, 863
FM-59.30X32 . . . . .	066279982812 . . . . .	607	FM-94T.12AVSE . . . . .	662679984366 . . . . .	700, 863
FM-59.6X7 . . . . .	662679982706 . . . . .	607	FM-94T.13AVSE . . . . .	662679984373 . . . . .	700, 863
FM-59.8X9 . . . . .	662679982713 . . . . .	607	FM-94T.14AVSE . . . . .	662679984380 . . . . .	700, 863
FM-66A.10X11 . . . . .	662679983093 . . . . .	601	FM-94T.6AVSE . . . . .	662679984397 . . . . .	700, 863
FM-66A.12X13 . . . . .	662679983109 . . . . .	601	FM-94T.8AVSE . . . . .	662679984403 . . . . .	700, 863
FM-66A.14X15 . . . . .	662679983116 . . . . .	601	FM-94TL.10AVSE . . . . .	662679984410 . . . . .	700, 863
FM-66A.16X17 . . . . .	662679983123 . . . . .	601	FM-94TL.13AVSE . . . . .	662679984427 . . . . .	700, 863
FM-66A.18X19 . . . . .	662679983130 . . . . .	601	FM-94TL.16AVSE . . . . .	662679984434 . . . . .	700, 863
FM-66A.20X22 . . . . .	662679983147 . . . . .	601	FM-94TL.17AVSE . . . . .	662679984441 . . . . .	700, 863
FM-66A.21X23 . . . . .	662679983154 . . . . .	601	FM-94TL.19AVSE . . . . .	662679984458 . . . . .	700, 863
FM-66A.24X27 . . . . .	662679983161 . . . . .	601	FM-J.10AVSE . . . . .	662679984571 . . . . .	440, 859
FM-66A.30X32 . . . . .	662679983178 . . . . .	601	FM-J.11AVSE . . . . .	662679984595 . . . . .	440, 859
FM-66A.6X7 . . . . .	662679983079 . . . . .	601	FM-J.12AVSE . . . . .	662679984625 . . . . .	440, 859
FM-66A.8X9 . . . . .	662679983086 . . . . .	601	FM-J.13AVSE . . . . .	662679984649 . . . . .	440, 859
FM-66A.JE9T . . . . .	662679983208 . . . . .	600	FM-J.13LAVSE . . . . .	662679984656 . . . . .	440, 859
FM-71.1AVSE . . . . .	662679984243 . . . . .	699, 863	FM-J.14AVSE . . . . .	662679984663 . . . . .	440, 859
FM-71.2AVSE . . . . .	662679984250 . . . . .	699, 863	FM-J.14LAVSE . . . . .	662679984670 . . . . .	440, 859
FM-71.3AVSE . . . . .	662679984267 . . . . .	699, 863	FM-J.15AVSE . . . . .	662679984694 . . . . .	440, 859
FM-76.10 . . . . .	662679981822 . . . . .	602	FM-J.16AVSE . . . . .	662679984700 . . . . .	440, 859
FM-76.11 . . . . .	662679981839 . . . . .	602	FM-J.16LAVSE . . . . .	662679984717 . . . . .	440, 859
FM-76.12 . . . . .	662679981846 . . . . .	602	FM-J.17AVSE . . . . .	662679984724 . . . . .	440, 859
FM-76.13 . . . . .	662679981853 . . . . .	602	FM-J.17LAVSE . . . . .	662679984731 . . . . .	440, 859
FM-76.14 . . . . .	662679981860 . . . . .	602	FM-J.18AVSE . . . . .	662679984748 . . . . .	440, 859
FM-76.15 . . . . .	662679981877 . . . . .	602	FM-J.18LAVSE . . . . .	662679984755 . . . . .	440, 859
FM-76.16 . . . . .	662679981884 . . . . .	602	FM-J.19AVSE . . . . .	662679984762 . . . . .	440, 859
FM-76.17 . . . . .	662679981891 . . . . .	602	FM-J.19LAVSE . . . . .	662679984779 . . . . .	440, 859
FM-76.18 . . . . .	662679981907 . . . . .	602	FM-J.8AVSE . . . . .	662679984830 . . . . .	440, 859
FM-76.19 . . . . .	662679981914 . . . . .	602	FM-J.8LAVSE . . . . .	662679984847 . . . . .	440, 859
FM-76.20 . . . . .	662679981921 . . . . .	602	FM-JT.10AVSE . . . . .	662679984854 . . . . .	440, 859
FM-76.21 . . . . .	662679981938 . . . . .	602	FM-JT.4AVSE . . . . .	662679984861 . . . . .	440, 859
FM-76.22 . . . . .	662679981945 . . . . .	602	FM-JT.5AVSE . . . . .	662679984878 . . . . .	440, 859
FM-76.23 . . . . .	662679981952 . . . . .	602	FM-JT.6AVSE . . . . .	662679984885 . . . . .	440, 859
FM-76.24 . . . . .	662679981969 . . . . .	602	FM-JT.7AVSE . . . . .	662679984892 . . . . .	440, 859
FM-76.25 . . . . .	662679981976 . . . . .	602	FM-JT.8AVSE . . . . .	662679984908 . . . . .	440, 859
FM-76.26 . . . . .	662679981983 . . . . .	602	FM-R.10AVSE . . . . .	662679984915 . . . . .	438, 858
FM-76.27 . . . . .	662679981990 . . . . .	602	FM-R.12AVSE . . . . .	662679984922 . . . . .	438, 858
FM-76.28 . . . . .	662679982003 . . . . .	602	FM-R.6AVSE . . . . .	662679984960 . . . . .	438, 858
FM-76.29 . . . . .	662679982010 . . . . .	602	FM-R.7AVSE . . . . .	662679984977 . . . . .	438, 858
FM-76.30 . . . . .	662679982027 . . . . .	602	FM-R.8AVSE . . . . .	662679984984 . . . . .	438, 858
FM-76.31 . . . . .	662679982034 . . . . .	602	FM-RT.4AVSE . . . . .	662679984991 . . . . .	438, 858
FM-76.32 . . . . .	662679982041 . . . . .	602	FM-RT.5AVSE . . . . .	662679985004 . . . . .	438, 858
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FM-76.36 . . . . .	662679982089 . . . . .	602	FM-S.12AVSE . . . . .	662679985059 . . . . .	442, 860
FM-76.38 . . . . .	662679982096 . . . . .	602	FM-S.12LAVSE . . . . .	662679985066 . . . . .	442, 860
FM-76.6 . . . . .	662679981785 . . . . .	602	FM-S.13AVSE . . . . .	662679985073 . . . . .	442, 860
FM-76.7 . . . . .	662679981792 . . . . .	602	FM-S.13LAVSE . . . . .	662679985080 . . . . .	442, 860
FM-76.8 . . . . .	662679981808 . . . . .	602	FM-S.14AVSE . . . . .	662679985097 . . . . .	442, 860
FM-76.9 . . . . .	662679981815 . . . . .	602	FM-S.14LAVSE . . . . .	662679985103 . . . . .	442, 860
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FM-83.4AVSE . . . . .	662679984304 . . . . .	706, 868	FM-S.18LAVSE . . . . .	662679985158 . . . . .	442, 860
FM-83.5AVSE . . . . .	662679984311 . . . . .	706, 868	FM-S.19AVSE . . . . .	662679985165 . . . . .	442, 860
FM-83.6AVSE . . . . .	662679984328 . . . . .	706, 868	FM-S.19LAVSE . . . . .	662679985172 . . . . .	442, 860
FM-83.8AVSE . . . . .	662679984335 . . . . .	706, 868	FM-S.21AVSE . . . . .	662679985202 . . . . .	442, 860
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FW-AP1X100VE . . . . .	662679035341 . . . . .	687, 862
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J07514L	662679360313	505
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J07521M	662679360634	504
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**SAFETY TIP:  
MEASURING TAPES**



To protect hands and blade, do not allow tape to retract into case at full speed.

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J07522ML	662679360702	505
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J07526ML	662679360863	505
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J07527M	662679360894	504
J07527ML	662679360900	505
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**SAFETY TIP:  
PLIERS**

Do not use “cheater bars” on handles of pliers to secure greater leverage. Use a larger pair of pliers.



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J10030S	662679977818	511
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J10032L	662679370657	514
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J10033M	662679370688	513
J10034	662679370695	512
J10034L	662679370701	514
J10035	662679370718	512
J10035L	662679370725	514
J10035M	662679977467	513
J10035S	662679988500	511
J10036	662679370732	512
J10036L	662679370749	514
J10036M	662679370756	513
J10037	662679370763	512
J10037L	662679370770	514
J10038	662679370787	512
J10038L	662679370794	514
J10038M	662679977474	513
J10039	662679370800	512
J10039L	662679976514	514
J10040	662679370817	512
J10040L	662679976521	514
J10041	662679370824	512
J10041L	662679371111	514
J10041M	662679370831	513
J10042	662679370848	512
J10042L	662679976538	514
J10043	662679370855	512
J10044	662679370862	512
J10044L	662679371128	514
J10045	662679370879	512
J10046	662679370886	512
J10046M	662679370893	513
J10047	662679370909	512
J10048	662679370916	512
J10050	662679370923	512
J10050M	662679370930	513
J10052	662679370947	512
J10054	662679370954	512
J10054M	662679977481	513
J10055M	662679370961	513
J10056	662679370978	512
J10058	662679371050	512
J10058M	662679977498	513
J10060M	662679370985	513
J10062	662679371067	512



J10063M . . . . .	662679977504 . . . . .	513	J1126L . . . . .	662679060169 . . . . .	607
J10064 . . . . .	662679371074 . . . . .	512	J1126LB . . . . .	662679090043 . . . . .	609
J10065M . . . . .	662679370992 . . . . .	513	J1126SPL . . . . .	662679572587 . . . . .	608
J10066 . . . . .	662679371081 . . . . .	512	J112GS . . . . .	662679480110 . . . . .	746
J10067M . . . . .	662679977511 . . . . .	513	J1130LB . . . . .	662679090050 . . . . .	609
J10068 . . . . .	662679371098 . . . . .	512	J1130SPL . . . . .	662679572594 . . . . .	608
J10070M . . . . .	662679977528 . . . . .	513	J1131 . . . . .	662679060268 . . . . .	611
J10072 . . . . .	662679371104 . . . . .	512	J1135B . . . . .	662679090074 . . . . .	609
J10075M . . . . .	662679977535 . . . . .	513	J1135SPL . . . . .	662679572600 . . . . .	608
J10080M . . . . .	662679977542 . . . . .	513	J1139 . . . . .	662679060367 . . . . .	607
J1012-500 . . . . .	662679061234 . . . . .	609	J1139B . . . . .	662679090081 . . . . .	609
J1016-500 . . . . .	662679061265 . . . . .	609	J1140B . . . . .	662679090098 . . . . .	609
J1018-500 . . . . .	662679061289 . . . . .	609	J1142SPL . . . . .	662679572617 . . . . .	608
J1022-500 . . . . .	662679061319 . . . . .	609	J1144SPL . . . . .	662679572624 . . . . .	608
J1026-500 . . . . .	662679061333 . . . . .	609	J1145B . . . . .	662679090104 . . . . .	609
J102GS . . . . .	662679480042 . . . . .	746	J1150B . . . . .	662679090111 . . . . .	609
J1030-500 . . . . .	662679061357 . . . . .	609	J1151 . . . . .	662679060428 . . . . .	608
J1034-500 . . . . .	662679061371 . . . . .	609	J1151B . . . . .	662679090128 . . . . .	609
J103GS . . . . .	662679480059 . . . . .	746	J1155 . . . . .	662679060435 . . . . .	608
J104GS . . . . .	662679480066 . . . . .	746	J115GS . . . . .	662679480127 . . . . .	746
J1050M . . . . .	662679062286 . . . . .	610	J1160 . . . . .	662679060442 . . . . .	608
J1051M . . . . .	662679062088 . . . . .	610	J1162 . . . . .	662679060466 . . . . .	608
J1053M . . . . .	662679062101 . . . . .	610	J1164 . . . . .	662679060480 . . . . .	608
J1057M . . . . .	662679062132 . . . . .	610	J1170 . . . . .	662679061609 . . . . .	607
J1058M . . . . .	662679062149 . . . . .	610	J1171 . . . . .	662679061616 . . . . .	607
J10607 . . . . .	662679371005 . . . . .	516	J1172 . . . . .	662679061623 . . . . .	607
J10608 . . . . .	662679371012 . . . . .	516	J1173 . . . . .	662679061630 . . . . .	607
J10609 . . . . .	662679371029 . . . . .	516	J1174 . . . . .	662679061647 . . . . .	607
J1061M . . . . .	662679062163 . . . . .	610	J1175 . . . . .	662679061654 . . . . .	607
J1064M . . . . .	662679062187 . . . . .	610	J1176 . . . . .	662679061661 . . . . .	607
J1065M . . . . .	662679062194 . . . . .	610	J1179T . . . . .	662679061739 . . . . .	570
J10670A . . . . .	662679054342 . . . . .	515	J1180A . . . . .	662679061111 . . . . .	568
J1068M . . . . .	662679062217 . . . . .	610	J1180MA . . . . .	662679062453 . . . . .	568
J1069M . . . . .	662679062224 . . . . .	610	J1181-A . . . . .	662679062538 . . . . .	569
J106GS . . . . .	662679480073 . . . . .	746	J1181M-A . . . . .	662679062545 . . . . .	569
J1072M . . . . .	662679062231 . . . . .	610	J1181T . . . . .	662679061753 . . . . .	570
J1073M . . . . .	662679062248 . . . . .	610	J1182-A . . . . .	662679062552 . . . . .	569
J1077M . . . . .	662679062262 . . . . .	610	J1182M-A . . . . .	662679062569 . . . . .	569
J1079M . . . . .	662679062279 . . . . .	610	J1182T . . . . .	662679061760 . . . . .	570
J108GS . . . . .	662679480080 . . . . .	746	J1183-A . . . . .	662679062576 . . . . .	569
J10P2-HD . . . . .	662679480486 . . . . .	749	J1183MA-A . . . . .	662679062583 . . . . .	569
J11/2-HD . . . . .	662679480097 . . . . .	748	J1183T . . . . .	662679061777 . . . . .	570
J11/2P1-HD . . . . .	662679480493 . . . . .	749	J1184-A . . . . .	662679062590 . . . . .	570
J1100D-M . . . . .	662679062392 . . . . .	604	J1184MA-A . . . . .	662679062606 . . . . .	569
J1100G . . . . .	662679061845 . . . . .	603	J1185-A . . . . .	662679062491 . . . . .	570
J1100MB . . . . .	662679090012 . . . . .	606	J1185M-A . . . . .	662679062477 . . . . .	570
J1100R . . . . .	662679061838 . . . . .	603	J1186 . . . . .	662679060596 . . . . .	570
J1100S-M . . . . .	662679062408 . . . . .	604	J1186M-A . . . . .	662679062484 . . . . .	570
J110GS . . . . .	662679480103 . . . . .	746	J1187M-A . . . . .	662679062507 . . . . .	570
J1111 . . . . .	662679061814 . . . . .	576, 892	J118GS . . . . .	662679480134 . . . . .	746
J1112 . . . . .	662679061821 . . . . .	576, 892	J1190A . . . . .	662679061135 . . . . .	573
J1118SPL . . . . .	662679572563 . . . . .	608	J1190B . . . . .	662679061142 . . . . .	574
J1120 . . . . .	662679060008 . . . . .	611	J1190LO . . . . .	662679062804 . . . . .	571
J1120LB . . . . .	662679061593 . . . . .	609	J1190MA . . . . .	662679062460 . . . . .	573
J1122 . . . . .	662679060053 . . . . .	611	J1190MLO . . . . .	662679062866 . . . . .	571
J1122SPL . . . . .	662679572570 . . . . .	608	J1191-A . . . . .	662679062514 . . . . .	574
J1125 . . . . .	662679060114 . . . . .	611	J1191LO . . . . .	662679062750 . . . . .	572
J1125LB . . . . .	662679090036 . . . . .	609	J1191M-A . . . . .	662679062613 . . . . .	575
J1126 . . . . .	662679060152 . . . . .	611	J1191MLO . . . . .	662679062811 . . . . .	572







J1191T-A . . . . .	662679062620 . . . . .	575	J1206SRF . . . . .	662679100957 . . . . .	675
J1192-A . . . . .	662679062637 . . . . .	574	J1206SSF . . . . .	662679081928 . . . . .	675
J1192LO . . . . .	662679062767 . . . . .	572	J1207EF . . . . .	662679989606 . . . . .	593
J1192M-A . . . . .	662679062644 . . . . .	575	J1207M-T500 . . . . .	662679072827 . . . . .	581
J1192MLO . . . . .	662679062828 . . . . .	572	J1207MA . . . . .	662679074050 . . . . .	592
J1192T-A . . . . .	662679062651 . . . . .	575	J1207MBA . . . . .	662679074081 . . . . .	598
J1193-A . . . . .	662679062668 . . . . .	574	J1207MH-T500 . . . . .	662679087272 . . . . .	580
J1193LO . . . . .	662679062774 . . . . .	572	J1207MHA . . . . .	662679565008 . . . . .	590
J1193MA-A . . . . .	662679062675 . . . . .	575	J1208-T500 . . . . .	662679034764 . . . . .	581
J1193MLO . . . . .	662679062835 . . . . .	572	J1208A . . . . .	662679074036 . . . . .	591
J1193T-A . . . . .	662679062682 . . . . .	575	J1208EF . . . . .	662679989613 . . . . .	593
J1194-A . . . . .	662679062699 . . . . .	575	J1208H-T500 . . . . .	662679087081 . . . . .	580
J1194LO . . . . .	662679062781 . . . . .	572	J1208HA . . . . .	662679087401 . . . . .	590
J1194MA-A . . . . .	662679062705 . . . . .	575	J1208M-T500 . . . . .	662679072834 . . . . .	581
J1194MLO . . . . .	662679062842 . . . . .	572	J1208MA . . . . .	662679074067 . . . . .	592
J1195-A . . . . .	662679062712 . . . . .	575	J1208MBA . . . . .	662679074098 . . . . .	598
J1195LO . . . . .	662679062798 . . . . .	572	J1208MH-T500 . . . . .	662679087289 . . . . .	580
J1195M-A . . . . .	662679062729 . . . . .	576	J1208MHA . . . . .	662679565015 . . . . .	590
J1195MLO . . . . .	662679062859 . . . . .	572	J1208SC . . . . .	662679081867 . . . . .	672
J1196-A . . . . .	662679062736 . . . . .	575	J1208SCL . . . . .	662679081898 . . . . .	673
J1196M . . . . .	662679060763 . . . . .	576	J1208SCP . . . . .	662679081874 . . . . .	672
J1197-A . . . . .	662679062743 . . . . .	575	J1208SPL . . . . .	662679572631 . . . . .	582
J1197M . . . . .	662679060787 . . . . .	576	J1208TF . . . . .	662679989705 . . . . .	594
J1198* . . . . .	662679060794 . . . . .	575	J1209-T500 . . . . .	662679033774 . . . . .	581
J1199* . . . . .	662679060800 . . . . .	575	J1209A . . . . .	662679087487 . . . . .	591
J12-HDL . . . . .	662679480158 . . . . .	748	J1209EF . . . . .	662679989620 . . . . .	593
J1200-80ASD . . . . .	662679073039 . . . . .	584	J1209M-T500 . . . . .	662679072841 . . . . .	581
J1200-90ASD . . . . .	662679073022 . . . . .	583	J1209MA . . . . .	662679074074 . . . . .	592
J1200EF . . . . .	662679993825 . . . . .	589	J1209MBA . . . . .	662679074104 . . . . .	598
J1200F-HD . . . . .	662679071530 . . . . .	585	J1209MH-T500 . . . . .	662679087296 . . . . .	580
J1200F-MASD . . . . .	662679073114 . . . . .	586	J1209MHA . . . . .	662679565022 . . . . .	590
J1200F-MBASD . . . . .	662679073169 . . . . .	596	J1209SPL . . . . .	662679988074 . . . . .	582
J1200F-T500 . . . . .	662679072636 . . . . .	578	J1209ST . . . . .	662679081942 . . . . .	676
J1200FASD . . . . .	662679073046 . . . . .	586	J1209TF . . . . .	662679989712 . . . . .	594
J1200FBASD . . . . .	662679073084 . . . . .	596	J1210-T500 . . . . .	662679072674 . . . . .	581
J1200GASD . . . . .	662679073053 . . . . .	587	J12100 . . . . .	662679001544 . . . . .	598
J1200GHASD . . . . .	662679073077 . . . . .	588	J12104 . . . . .	662679001551 . . . . .	598
J1200H-MASD . . . . .	662679073138 . . . . .	588	J12108 . . . . .	662679001568 . . . . .	598
J1200H-T500 . . . . .	662679072667 . . . . .	579	J1210A . . . . .	662679074043 . . . . .	591
J1200HASD . . . . .	662679073060 . . . . .	589	J1210EF . . . . .	662679989637 . . . . .	593
J1200HBASD . . . . .	662679073091 . . . . .	597	J1210H-T500 . . . . .	662679087098 . . . . .	580
J1200HM-T500 . . . . .	662679072643 . . . . .	579	J1210HA . . . . .	662679087418 . . . . .	590
J1200K-MASD . . . . .	662679073145 . . . . .	587	J1210M-T500 . . . . .	662679072858 . . . . .	581
J1200MHASD . . . . .	662679073152 . . . . .	588	J1210MASD . . . . .	662679074005 . . . . .	592
J1200P-MASD . . . . .	662679073121 . . . . .	587	J1210MBASD . . . . .	662679073718 . . . . .	598
J1200R-MASD . . . . .	662679073107 . . . . .	585	J1210MH-T500 . . . . .	662679087302 . . . . .	580
J1200RM-T500 . . . . .	662679072650 . . . . .	578	J1210MHASD . . . . .	662679073473 . . . . .	590
J1202SC . . . . .	662679081966 . . . . .	677	J1210SPL . . . . .	662679572648 . . . . .	582
J1202SCXL . . . . .	662679081904 . . . . .	674	J1210TF . . . . .	662679989729 . . . . .	594
J1203SS . . . . .	662679081997 . . . . .	677	J1211-T500 . . . . .	662679989828 . . . . .	581
J1204EF . . . . .	662679989576 . . . . .	593	J12112 . . . . .	662679001575 . . . . .	598
J1204SC . . . . .	662679081959 . . . . .	677	J12116 . . . . .	662679001582 . . . . .	598
J1205EF . . . . .	662679989583 . . . . .	593	J1211A . . . . .	662679989811 . . . . .	591
J1206EF . . . . .	662679989590 . . . . .	593	J1211EF . . . . .	662679989644 . . . . .	593
J1206MA . . . . .	662679900366 . . . . .	592	J1211H-T500 . . . . .	662679087104 . . . . .	580
J1206MH-T500 . . . . .	662679087265 . . . . .	580	J1211HA . . . . .	662679087425 . . . . .	590
J1206MHA . . . . .	662679087470 . . . . .	590	J1211M-T500 . . . . .	662679072865 . . . . .	581
J1206SCP . . . . .	662679081881 . . . . .	673	J1211MASD . . . . .	662679074012 . . . . .	592
J1206SP . . . . .	662679081911 . . . . .	674	J1211MBASD . . . . .	662679073725 . . . . .	598





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J1211MHASD . . . . .	662679073480 . . . . .	590	J1217MHASD . . . . .	662679073541 . . . . .	590
J1211SPL . . . . .	662679989835 . . . . .	582	J1218-T500 . . . . .	662679072711 . . . . .	581
J1211TF . . . . .	662679989736 . . . . .	594	J1218ASD . . . . .	662679073893 . . . . .	591
J1212-T500 . . . . .	662679072681 . . . . .	581	J1218BASD . . . . .	662679073602 . . . . .	597
J12120 . . . . .	662679001599 . . . . .	598	J1218EF . . . . .	662679989682 . . . . .	593
J12124 . . . . .	662679001605 . . . . .	598	J1218H-T500 . . . . .	662679087142 . . . . .	580
J12128 . . . . .	662679001612 . . . . .	598	J1218HASD . . . . .	662679073398 . . . . .	590
J1212ASD . . . . .	662679073862 . . . . .	591	J1218M-T500 . . . . .	662679072933 . . . . .	581
J1212BASD . . . . .	662679073572 . . . . .	597	J1218MASD . . . . .	662679073220 . . . . .	592
J1212EF . . . . .	662679989651 . . . . .	593	J1218MBASD . . . . .	662679073794 . . . . .	598
J1212H-T500 . . . . .	662679087111 . . . . .	580	J1218MH-T500 . . . . .	662679087388 . . . . .	580
J1212HASD . . . . .	662679073367 . . . . .	590	J1218MHASD . . . . .	662679073558 . . . . .	590
J1212M-T500 . . . . .	662679072872 . . . . .	581	J1218SPL . . . . .	662679572686 . . . . .	582
J1212MASD . . . . .	662679074029 . . . . .	592	J1218TF . . . . .	662679989774 . . . . .	594
J1212MBASD . . . . .	662679073732 . . . . .	598	J1219M-T500 . . . . .	662679072940 . . . . .	581
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J1213M-T500 . . . . .	662679072889 . . . . .	581	J1219SC . . . . .	662679081850 . . . . .	671
J1213MASD . . . . .	662679073176 . . . . .	592	J1220-T500 . . . . .	662679072728 . . . . .	581
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J1213MH-T500 . . . . .	662679087333 . . . . .	580	J1220BASD . . . . .	662679073619 . . . . .	597
J1213MHASD . . . . .	662679073503 . . . . .	590	J1220EF . . . . .	662679989699 . . . . .	593
J1214-T500 . . . . .	662679072698 . . . . .	581	J1220H-T500 . . . . .	662679087159 . . . . .	580
J1214ASD . . . . .	662679073879 . . . . .	591	J1220HASD . . . . .	662679073404 . . . . .	590
J1214BASD . . . . .	662679073589 . . . . .	597	J1220M-T500 . . . . .	662679072957 . . . . .	581
J1214EF . . . . .	662679989668 . . . . .	593	J1220MASD . . . . .	662679073244 . . . . .	592
J1214H-T500 . . . . .	662679087128 . . . . .	580	J1220MBASD . . . . .	662679073817 . . . . .	598
J1214HASD . . . . .	662679073374 . . . . .	590	J1220SPL . . . . .	662679572693 . . . . .	582
J1214M-T500 . . . . .	662679072896 . . . . .	581	J1220TF . . . . .	066279989781 . . . . .	594
J1214MASD . . . . .	662679073183 . . . . .	592	J1221M-T500 . . . . .	662679072964 . . . . .	581
J1214MBASD . . . . .	662679073756 . . . . .	598	J1221MASD . . . . .	662679073251 . . . . .	592
J1214MH-T500 . . . . .	662679087340 . . . . .	580	J1221MBASD . . . . .	662679073824 . . . . .	598
J1214MHASD . . . . .	662679073510 . . . . .	590	J1222-T500 . . . . .	662679072735 . . . . .	581
J1214SPL . . . . .	662679572662 . . . . .	582	J1222ASD . . . . .	662679073916 . . . . .	591
J1214TF . . . . .	662679989750 . . . . .	594	J1222BASD . . . . .	662679073626 . . . . .	597
J1215M-T500 . . . . .	662679072902 . . . . .	581	J1222H-T500 . . . . .	662679087166 . . . . .	580
J1215MASD . . . . .	662679073190 . . . . .	592	J1222HASD . . . . .	662679073411 . . . . .	590
J1215MBASD . . . . .	662679073763 . . . . .	598	J1222M-T500 . . . . .	662679072971 . . . . .	581
J1215MH-T500 . . . . .	662679087357 . . . . .	580	J1222MASD . . . . .	662679073268 . . . . .	592
J1215MHASD . . . . .	662679073527 . . . . .	590	J1222MBASD . . . . .	662679073831 . . . . .	598
J1216-T500 . . . . .	662679072704 . . . . .	581	J1222SPL . . . . .	662679572709 . . . . .	582
J1216ASD . . . . .	662679073886 . . . . .	591	J1222TF . . . . .	662679989798 . . . . .	594
J1216BASD . . . . .	662679073596 . . . . .	597	J1223MASD . . . . .	662679073275 . . . . .	592
J1216EF . . . . .	662679989675 . . . . .	593	J1223MBASD . . . . .	662679073848 . . . . .	598
J1216H-T500 . . . . .	662679087135 . . . . .	580	J1224-T500 . . . . .	662679072742 . . . . .	581
J1216HASD . . . . .	662679073381 . . . . .	590	J1224ASD . . . . .	662679073923 . . . . .	591
J1216M-T500 . . . . .	662679072919 . . . . .	581	J1224BASD . . . . .	662679073633 . . . . .	597
J1216MASD . . . . .	662679073206 . . . . .	592	J1224H-T500 . . . . .	662679087173 . . . . .	580
J1216MBASD . . . . .	662679073770 . . . . .	598	J1224HASD . . . . .	662679073428 . . . . .	590
J1216MH-T500 . . . . .	662679087364 . . . . .	580	J1224M-T500 . . . . .	662679072988 . . . . .	581
J1216MHASD . . . . .	662679073534 . . . . .	590	J1224MASD . . . . .	662679073282 . . . . .	592
J1216SPL . . . . .	662679572679 . . . . .	582	J1224MBASD . . . . .	662679073855 . . . . .	598
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J1217MASD . . . . .	662679073213 . . . . .	592	J1225MASD . . . . .	662679073299 . . . . .	592
J1217MBASD . . . . .	662679073787 . . . . .	598	J1226-T500 . . . . .	662679072759 . . . . .	581



J1226ASD . . . . .	662679073930 . . . . .	591
J1226BASD . . . . .	662679073640 . . . . .	597
J1226H-T500 . . . . .	662679087180 . . . . .	580
J1226HASD . . . . .	662679073435 . . . . .	590
J1226MASD . . . . .	662679073305 . . . . .	592
J1226SPL . . . . .	662679988166 . . . . .	582
J1227MASD . . . . .	662679073312 . . . . .	592
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J1228ASD . . . . .	662679073947 . . . . .	591
J1228BASD . . . . .	662679073657 . . . . .	597
J1228H-T500 . . . . .	662679087197 . . . . .	580
J1228HASD . . . . .	662679073442 . . . . .	590
J1228MASD . . . . .	662679073329 . . . . .	592
J1228SPL . . . . .	662679988173 . . . . .	582
J1229MASD . . . . .	662679073336 . . . . .	592
J1230-T500 . . . . .	662679072773 . . . . .	581
J1230ASD . . . . .	662679073954 . . . . .	591
J1230BASD . . . . .	662679073664 . . . . .	597
J1230H-T500 . . . . .	662679087203 . . . . .	580
J1230HASD . . . . .	662679073459 . . . . .	590
J1230MASD . . . . .	662679073343 . . . . .	592

**SAFETY TIP:  
HAMMERS**

Strike squarely  
to avoid  
glancing blows.



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J1232ASD . . . . .	662679073961 . . . . .	591
J1232BASD . . . . .	662679073671 . . . . .	597
J1232H-T500 . . . . .	662679087210 . . . . .	580
J1232HASD . . . . .	662679073466 . . . . .	590
J1232MASD . . . . .	662679073350 . . . . .	592
J1232SPL . . . . .	662679988197 . . . . .	582
J1234-T500 . . . . .	662679072797 . . . . .	581
J1234ASD . . . . .	662679073978 . . . . .	591
J1234BASD . . . . .	662679073688 . . . . .	597
J1234H-T500 . . . . .	662679087227 . . . . .	580
J1234HASD . . . . .	662679087432 . . . . .	590
J1236-T500 . . . . .	662679072803 . . . . .	581
J1236ASD . . . . .	662679073985 . . . . .	591
J1236BASD . . . . .	662679073695 . . . . .	597
J1236H-T500 . . . . .	662679087234 . . . . .	580
J1236HASD . . . . .	662679087449 . . . . .	590
J1236M . . . . .	662679071189 . . . . .	592
J1238ASD . . . . .	662679087494 . . . . .	591
J1238H-T500 . . . . .	662679087241 . . . . .	580
J1238HASD . . . . .	662679087456 . . . . .	590
J1240-T500 . . . . .	662679072810 . . . . .	581

J1240ASD . . . . .	662679073992 . . . . .	591
J1240BASD . . . . .	662679073701 . . . . .	597
J1240H-T500 . . . . .	662679087258 . . . . .	580
J1240HASD . . . . .	662679087463 . . . . .	590
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J1270-16 . . . . .	662679071394 . . . . .	600
J1270-18 . . . . .	662679071400 . . . . .	600
J1270-20 . . . . .	662679071417 . . . . .	600
J1270-22 . . . . .	662679071424 . . . . .	600
J1270-24 . . . . .	662679071431 . . . . .	600
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J1332PGD	662679020156	772	J15031	662679380243	518
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J1364	662679020699	773	J15034	662679380304	518
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J266XL . . . . .	662679997052 . . . . .	729
J2670SWM . . . . .	662679120948 . . . . .	650
J2675SWM . . . . .	662679120955 . . . . .	650
J267G . . . . .	662679030568 . . . . .	723, 877
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J2680SWM . . . . .	662679120962 . . . . .	650
J268G . . . . .	662679030582 . . . . .	723, 877

**SAFETY TIP:  
KNIVES AND BLADES**

Always use sharp blades. A dull blade requires more force and is more likely to slip than a sharp one. Change the blade whenever it starts to tear instead of cut.



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J269WSG . . . . .	662679032425 . . . . .	724	J299RXL . . . . .	662679997090 . . . . .	726
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J2723SW . . . . .	662679120993 . . . . .	648	J30000R . . . . .	662679050894 . . . . .	613
J2726SW . . . . .	662679121006 . . . . .	648	J3000H . . . . .	662679050900 . . . . .	612
J2729SW . . . . .	662679121013 . . . . .	648	J3000HB . . . . .	662679090302 . . . . .	612
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J273XL . . . . .	662679997304 . . . . .	730	J3016 . . . . .	662679050009 . . . . .	614
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J275XL . . . . .	662679033675 . . . . .	731	J3026 . . . . .	662679050054 . . . . .	614
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J3142.	662679051594	619	J3526.	662679052027	625
J3144.	662679051600	619	J3527M	662679980146	626
J3146.	662679051617	619	J3528.	662679052034	625
J3148.	662679051624	619	J3530.	662679052041	625
J3152.	662679051631	619	J3530M	662679980153	626
J3156.	662679051648	619	J3532.	662679052058	625
J3158.	662679051655	619	J3532M	662679980160	626
J3160.	662679051662	619	J3534.	662679052065	625
J31617	662679050306	615	J3536.	662679052072	625
J3164.	662679051679	619	J3536M	662679980177	626
J317	662679030070	751	J3537M	662679980184	626
J31819	662679050313	615	J3538.	662679052089	625
J319	662679531140	833	J3538M	662679980191	626
J320	662679030087	751	J3540.	662679052096	625
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J32123	662679050351	615	J3544M	662679980238	626
J3215.	662679050368	623	J3546.	662679052126	625
J3216.	662679050375	623	J3546M	662679980245	626





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**SAFETY TIP:  
CHISELS**

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that it cannot move.



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Always discard a screwdriver with a worn or broken blade.



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**SAFETY TIP:  
PLIERS**

Always cut at right angles. Never rock from side to side or bend the wire back and forth against the cutting edges.



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**SAFETY TIP:  
SNIPS**

Wear gloves  
when working  
with snips.





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**SAFETY TIP:  
MEASURING TAPES**



Use safety goggles.  
Serious eye injury  
is possible.

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**SAFETY TIP:  
HAMMERS**

Always discard a hammer when face shows excessive wear, mushrooming, chipping, or dents.



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J88106	662679042615	685
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J88214	662679042523	685
J88215	662679042530	685
J88216	662679042547	685
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J88313	662679042776	685	J9211	662679040376	699, 899
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J88322	662679042783	685	J9212	662679040406	699, 899
J88322B	662679042851	685	J9212H	662679040413	699, 899
J88324	662679042790	685	J9212M	662679040420	699, 899
J88324B	662679042868	685	J9213M	662679040437	699, 899
J88328	662679042806	685	J9214	662679040444	699, 899
J88336	662679042813	685	J9214H	662679040451	699, 899
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JH7-16M	662679005474	535	JH7-42B.	662679005108	536
JH7-16MB.	662679005139	536	JH7-44	662679005450	535
JH7-17M	662679005481	535	JH7-44B.	662679005115	536
JH7-17MB.	662679005146	536	JH7-6014C	662679005672	532
JH7-18	662679005320	535	JHA4S.	662679975173	567
JH7-18B.	662679004989	536	JHAM4S.	662679975180	567
JH7-18M	662679005498	535	JHD032M	662679121112	652
JH7-18MB.	662679005153	536	JHD036M	662679121129	652
JH7-19M	662679005504	535	JHD041M	662679121136	652
JH7-19MB.	662679005160	536	JHD046M	662679121143	652
JH7-20	662679005337	535	JHD050M	662679121150	652
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JH7-20M	662679005511	535			
JH7-20MB.	662679005177	536			



**SAFETY TIP:  
KNIVES AND BLADES**

Never leave a knife unattended with the blade exposed.



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JHD070M . . . . .	662679121198 . . . . .	652
JHD075M . . . . .	662679121204 . . . . .	652
JHD080M . . . . .	662679121211 . . . . .	652
JHD085M . . . . .	662679121228 . . . . .	652
JHD090M . . . . .	662679121235 . . . . .	652
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JK1424R . . . . .	662679082246 . . . . .	679
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JT20314R . . . . .	662679082567 . . . . .	679	JUSN362 . . . . .	662679121501 . . . . .	651
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JT27314R . . . . .	662679082581 . . . . .	679	JUSN368 . . . . .	662679121525 . . . . .	651
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# DECIMAL EQUIVALENTS OF MILLIMETER, FRACTIONAL AND NUMBER DRILL SIZES

- |                    |                          |                          |                                 |
|--------------------|--------------------------|--------------------------|---------------------------------|
| 1 mm = 0.03937 in. | 1 foot = 0.3048 m        | 1 sq. cm = 0.155 sq. in. | 1 lb = 373.24 grams             |
| 1 cm = 0.3937 in.  | 1 yd = 0.9144 m          | 1 sq. dm = 15.5 sq. in.  | 1 qt = 0.9463 liters (liquid)   |
| 1 dm = 3.937 in.   | 1 sq. in. = 6.452 sq. cm | 1 sq. m = 1.196 sq. yd   | 1 gal. = 3.7853 liters (liquid) |
| 1 m = 39.37 in.    | 1 sq. ft = 929 sq. cm    | 1 oz = 31.1035 grams     | 1 liter = 1.0567 liquid qt      |
| 1 in. = 25.4 mm    | 1 sq. yd = 0.8361 sq. m  |                          |                                 |

MILLIMETER	DEC. IN. EQU.	FRACTIONAL	MILLIMETER	DEC. IN. EQU.	FRACTIONAL	MILLIMETER	DEC. IN. EQU.	FRACTIONAL	MILLIMETER	DEC. IN. EQU.	FRACTIONAL	MILLIMETER	DEC. IN. EQU.	FRACTIONAL
0.10	.0039		1.75	.0689		—	.1570		6.80	.2677		10.72	.4219	27/64"
0.15	.0059		—	.0700		4.00	.1575		6.90	.2716		11.00	.4330	
0.20	.0079		1.80	.0709		—	.1590		—	.2720		11.11	.4375	7/16"
0.25	.0098		1.85	.0728		—	.1610		7.00	.2756		11.50	.4528	
0.30	.0118		—	.0730		4.10	.1614		—	.2770		11.51	.4531	29/64"
—	.0135		1.90	.0748		4.20	.1654		7.10	.2795		11.91	.4687	15/32"
0.35	.0138		—	.0760		—	.1660		—	.2811		12.00	.4724	
—	.0145		1.95	.0767		4.25	.1673		7.14	.2812	9/32"	12.30	.4843	31/64"
0.39	.0156	1/64"	1.98	.0781	5/64"	4.30	.1693		7.20	.2835		12.50	.4921	
0.40	.0157		—	.0785		—	.1695		7.25	.2854		12.70	.5000	1/2"
—	.0160		2.00	.0787		4.37	.1719	11/64"	7.30	.2874	1"	3.00	.5118	
0.45	.0177		2.05	.0807		—	.1730		—	.2900		13.10	.5156	33/64"
—	.0180		—	.0810		4.40	.1732		7.40	.2913		13.49	.5312	17/32"
0.50	.0197		—	.0820		—	.1770		—	.2950		13.50	.5315	
—	.0200		2.10	.0827		4.50	.1771		7.50	.2953		13.89	.5469	35/64"
—	.0210		2.15	.0846		—	.1800		7.54	.2968	19/64"	14.00	.5512	
0.55	.0217		—	.0860		4.60	.1811		7.60	.2992		14.29	.5625	9/16"
—	.0225		2.20	.0866		—	.1820		—	.3020		14.50	.5709	
0.60	.0236		2.25	.0885		4.70	.1850		7.70	.3031		14.68	.5781	37/64"
—	.0240		—	.0890		4.75	.1870		7.75	.3051		15.00	.5906	
—	.0250		2.30	.0905		4.76	.1875	3/16"	7.80	.3071		15.08	.5937	19/32"
0.65	.0256		2.35	.0925		4.80	.1890		7.90	.3110		15.48	.6094	39/64"
—	.0260		—	.0935		—	.1910		7.94	.3125	5/16"	15.50	.6102	
—	.0280		2.38	.0937	3/32"	4.90	.1929		8.00	.3150		15.88	.6250	5/8"
0.70	.0286		2.40	.0945		—	.1935		—	.3160		16.00	.6299	
—	.0292		—	.0960		—	.1960		8.10	.3189		16.27	.6406	41/64"
0.75	.0295		2.45	.0964		5.00	.1968		8.20	.3228		16.50	.6496	
—	.0310		—	.0980		—	.1990		—	.3230		16.67	.6562	21/32"
0.79	.0312	1/32"	2.50	.0984		5.10	.2008		8.25	.3248		17.00	.6693	
0.80	.0315		—	.0995		—	.2010		8.30	.3268		17.06	.6719	43/64"
—	.0320		—	.1015		5.16	.2031	13/64"	8.33	.3281	21/64"	17.46	.6875	11/16"
—	.0330		2.60	.1024		—	.2040		8.40	.3307		17.50	.6890	
0.85	.0335		—	.1040		5.20	.2047		—	.3320		17.86	.7031	45/64"
—	.0350		2.70	.1063		—	.2055		8.50	.3346		18.00	.7087	
0.90	.0354		—	.1065		5.25	.2067		8.60	.3386		18.26	.7187	23/32"
—	.0360		2.75	.1082		5.30	.2086		—	.3390		18.50	.7283	
—	.0370		2.78	.1094	7/64"	—	.2090		8.70	.3425		18.65	.7344	47/64"
0.95	.0374		—	.1100		5.40	.2126		8.73	.3437	11/32"	19.00	.7480	
—	.0380		2.80	.1102		—	.2130		8.75	.3445		19.05	.7500	3/4"
—	.0390		—	.1110		5.50	.2165		8.80	.3465		19.45	.7656	49/64"
1.00	.0394		—	.1130		5.56	.2187	7/32"	—	.3480		19.50	.7677	
—	.0400		2.90	.1141		5.60	.2205		8.90	.3504		19.84	.7812	25/32"
—	.0410		—	.1160		—	.2210		9.00	.3543		20.00	.7874	
1.05	.0413		3.00	.1181		5.70	.2244		—	.3580		20.24	.7969	51/64"
—	.0420		—	.1200		5.75	.2263		9.10	.3583		20.50	.8071	
—	.0430		3.10	.1220		—	.2280		9.13	.3594	23/64"	20.64	.8125	13/16"
1.10	.0433		3.18	.1250	1/8"	5.80	.2283		9.20	.3622		21.00	.8268	
1.15	.0452		3.20	.1260		5.90	.2323		9.25	.3641		21.03	.8281	53/64"
—	.0465		3.25	.1279		—	.2340		9.30	.3661		21.43	.8437	27/32"
1.19	.0469	3/64"	—	.1285		5.95	.2344	15/64"	—	.3680		21.50	.8465	
1.20	.0472		3.30	.1299		6.00	.2362		9.40	.3701		21.83	.8594	55/64"
1.25	.0492		3.40	.1338		—	.2380		9.50	.3740		22.00	.8661	
1.30	.0512		—	.1360		6.10	.2401		9.53	.3750	3/8"	22.23	.8750	7/8"
—	.0520		3.50	.1378		—	.2420		—	.3770		22.50	.8858	
1.35	.0531		—	.1405		6.20	.2441		9.60	.3780		22.62	.8906	57/64"
—	.0550		3.57	.1406	9/64"	6.25	.2460		9.70	.3819		23.00	.9055	
1.40	.0551		3.60	.1417		6.30	.2480		9.75	.3838		23.02	.9062	29/32"
1.45	.0570		—	.1440		6.35	.2500	1/4"	9.80	.3858		23.42	.9219	59/64"
1.50	.0591		3.70	.1457		6.40	.2520		—	.3860		23.50	.9252	
—	.0595		—	.1470		6.50	.2559		9.90	.3898		23.81	.9375	15/16"
1.55	.0610		3.75	.1476		—	.2570		9.92	.3906	25/64"	24.00	.9449	
1.59	.0625	1/16"	—	.1495		6.60	.2598		10.00	.3937		24.21	.9531	61/64"
1.60	.0629		3.80	.1496		—	.2610		—	.3970		24.50	.9646	
—	.0635		—	.1520		6.70	.2638		—	.4040		24.61	.9687	31/32"
1.65	.0649		3.90	.1535		6.75	.2656	17/64"	10.32	.4062	13/32"	25.00	.9843	
1.70	.0669		—	.1540		6.75	.2657		—	.4130		25.03	.9844	63/64"
—	.0670		3.97	.1562	5/32"	—	.2660		10.50	.4134		25.40	1.0000	1"



# BOLT SIZING CHART

NOMINAL OPENING SIZES OF PROTO® WRENCHES OR SOCKETS IN INCHES TO FIT STANDARD BOLT HEADS, NUTS AND SCREW HEADS.

Locate thread diameter of bolt, nut or screw in extreme left or right column. Then move across to box which has proper identification of bolt, nut or screw at top of vertical column. The size in this particular box is the nominal opening size in inches of the PROTO® wrench and sockets that will fit.

American Standards Association—ASA B18.2, Appendix I

NUTS: Use Wrench or Socket Size Shown Below				
THREAD DIAMETER OF NUT	FINISHED SERIES & FINISHED THICK NUTS	REGULAR SERIES HEX & SQUARE NUTS	HEAVY SERIES HEX & SQUARE NUTS	MACHINE SCREW NUTS & STOVE BOLT NUTS
#0 & 1				5/32"
#2 & 3				3/16"
#4				1/4"
#5 & 6				5/16"
#8				11/32"
#10				3/8"
#12				7/16"
1/4"	7/16"	7/16"	1/2"	7/16"
5/16"	1/2"	9/16"	9/16"	9/16"
3/8"	9/16"	5/8"	11/16"	5/8"
7/16"	11/16"	3/4"	3/4"	
1/2"	3/4"	13/16"	7/8"	
9/16"	7/8"	7/8"	15/16"	
5/8"	15/16"	1"	1-1/16"	
3/4"	11/8"	11/8"	1-1/4"	
7/8"	15/16"	15/16"	1-7/16"	
1"	1-1/2"	1-1/2"	1-5/8"	
1-1/8"	1-11/16"	1-11/16"	1-13/16"	
1-1/4"	1-7/8"	1-7/8"	2"	
1-3/8"	2-1/16"	2-1/16"	2-3/16"	
1-1/2"	2-1/4"	2-1/4"	2-3/8"	
1-5/8"	2-7/16"	2-7/16"	2-9/16"	
1-3/4"	2-5/8"	2-5/8"	2-3/4"	
1-7/8"	2-13/16"	2-13/16"	2-15/16"	
2"	3"	3"	3-1/8"	
2-1/4"	3-3/8"	3-3/8"	3-1/2"	
2-1/2"	3-3/4"	3-3/4"	3-7/8"	
2-3/4"	4-1/8"	4-1/8"	4-1/4"	
3"	4-1/2"	4-1/2"	4-5/8"	
3-1/4"			5"	
3-1/2"			5-3/8"	
3-3/4"			5-3/4"	
4"			6-1/2"	
4-1/4"			6-1/2"	
4-1/2"			6-7/8"	
4-3/4"			7-1/4"	
5"			7-5/8"	
5-1/4"			8"	
5-1/2"			8-3/8"	
5-3/4"			8-3/4"	
6"			9"	

BOLTS & SCREWS: Use Wrench or Socket Size Shown Below				
REGULAR & FINISHED SERIES HEX & SQUARE HEAD BOLTS	HEAVY SERIES HEX & SQUARE HEAD BOLTS	LAG SCREWS	SQUARE HEAD SET SCREWS	THREAD DIAMETER OF BOLT OF SCREW
			#0 & 1	
			#2 & 3	
			#4	
			#5 & 6	
			#8	
			#10	
			#12	
*3/8"-1/4"		3/16"	1/4"	1/4"
	5/16"	7/32"	5/16"	5/16"
		3/8"	3/8"	3/8"
		1/2"	7/16"	7/16"
		9/16"	1/2"	1/2"
		5/8"	9/16"	9/16"
	7/8"	3/4"	5/8"	5/8"
			3/4"	3/4"
			7/8"	7/8"
			1"	1"
	11/16"	15/16"	1-1/8"	1-1/8"
	1-1/8"	1-1/8"	1-1/4"	1-1/4"
	1-7/16"	1-5/16"	1-3/8"	1-3/8"
	1-1/2"	1-1/2"	1-1/2"	1-1/2"
	1-11/16"	1-13/16"	1-11/16"	1-11/16"
	1-7/8"	2"	1-1/4"	1-1/4"
	2-1/16"	2-3/16"	1-3/8"	1-3/8"
	2-1/4"	2-3/8"	1-1/2"	1-1/2"
	2-7/16"	2-9/16"	1-5/8"	1-5/8"
	2-5/8"	2-3/4"	1-3/4"	1-3/4"
	2-13/16"	2-15/16"	1-7/8"	1-7/8"
	3"	3-1/8"	2"	2"
	3-3/8"	3-1/2"	2-1/4"	2-1/4"
	3-3/4"	3-7/8"	2-1/2"	2-1/2"
	4-1/8"	4-1/4"	2-3/4"	2-3/4"
	4-1/2"	4-5/8"	3"	3"
	4-7/8"		3-1/4"	3-1/4"
	5-1/4"		3-1/2"	3-1/2"
	5-5/8"		3-3/4"	3-3/4"
	6"		4"	4"

\*Regular Square Bolts Only.



## CONVERSION FROM FRACTIONAL INCHES TO MILLIMETERS

INCH	MM	INCH	MM
1/64	0.0156	33/64	0.5156
1/32	0.0312	17/32	0.5312
3/64	0.0468	35/64	0.5468
1/16	0.0625	9/16	0.5625
5/64	0.0781	37/64	0.5781
3/32	0.0937	19/32	0.5937
7/64	0.1093	39/64	0.6093
1/8	0.1250	5/8	0.6250
9/64	0.1406	41/64	0.6406
5/32	0.1562	21/32	0.6562
11/64	0.1718	43/64	0.6718
3/16	0.1875	11/16	0.6875
13/64	0.2031	45/64	0.7031
7/32	0.2187	23/32	0.7187
15/64	0.2343	47/64	0.7343
1/4	0.2500	3/4	0.7500
17/64	0.2656	49/64	0.7656
9/32	0.2812	25/32	0.7812
19/64	0.2968	51/64	0.7968
5/16	0.3125	13/16	0.8125
21/64	0.3281	53/64	0.8281
11/32	0.3437	27/32	0.8437
23/64	0.3593	55/64	0.8593
3/8	0.3750	7/8	0.8750
25/64	0.3906	57/64	0.8906
13/32	0.4062	29/32	0.9062
27/64	0.4218	59/64	0.9218
7/16	0.4375	15/16	0.9375
29/64	0.4531	61/64	0.9531
15/32	0.4687	31/32	0.9687
31/64	0.4843	63/64	0.9843
1/2	0.5000	1	1.0000

NOTE: All values in this table are exact.

## CONVERSION FROM MILLIMETERS TO INCHES

MM	INCH	MM	INCH	MM	INCH
1	0.0393	36	1.4173	71	2.7952
2	0.0787	37	1.4566	72	2.8346
3	0.1181	38	1.4960	73	2.8740
4	0.1574	39	1.5354	74	2.9133
5	0.1968	40	1.5748	75	2.9527
6	0.2362	41	1.6141	76	2.9921
7	0.2755	42	1.6535	77	3.0314
8	0.3149	43	1.6929	78	3.0708
9	0.3543	44	1.7322	79	3.1102
10	0.3937	45	1.7716	80	3.1496
11	0.4330	46	1.8110	81	3.1889
12	0.4724	47	1.8503	82	3.2283
13	0.5118	48	1.8897	83	3.2677
14	0.5511	49	1.9291	84	3.3070
15	0.5905	50	1.9685	85	3.3464
16	0.6299	51	2.0078	86	3.3858
17	0.6692	52	2.0472	87	3.4251
18	0.7086	53	2.0866	88	3.4645
19	0.7480	54	2.1259	89	3.5039
20	0.7874	55	2.1653	90	3.5433
21	0.8267	56	2.2047	91	3.5826
22	0.8661	57	2.2440	92	3.6220
23	0.9055	58	2.2834	93	3.6614
24	0.9448	59	2.3228	94	3.7007
25	0.9842	60	2.3622	95	3.7401
26	1.0236	61	2.4015	96	3.7795
27	1.0629	62	2.4409	97	3.8188
28	1.1023	63	2.4803	98	3.8582
29	1.1417	64	2.5196	99	3.8976
30	1.1811	65	2.5590	100	3.9370
31	1.2204	66	2.5984	FORMULA TO CONVERT MM to INCHES: Divide 25.4 Into Known MM.	
32	1.2598	67	2.6377		
33	1.2992	68	2.6771		
34	1.3385	69	2.7165		
35	1.3779	70	2.7559		

NOTE: The inch values in this table are rounded off.

## CONVERSION FROM FT-LBS TO METER-KILOGRAMS

The chart below can be used to convert foot pounds to meter-kilograms. The foot-pound column at the left increases in 10 ft-lb increments from 0 to 110 ft-lbs. For each additional ft-lb, read the top row of numbers.

Example: If you desire 45 ft-lbs, you would look to the number 40 in the left column and the number 5 in the top row. The conversion to meter-kilograms would be 6.22 m-kgs. For your use, the conversion formula is:

**FT-LBS x .1383=METER-KILOGRAMS**

Ft Lbs	0	1	2	3	4	5	6	7	8	9
0	0	0.14	0.28	0.42	0.55	0.69	0.83	0.97	1.11	1.25
10	1.38	1.52	1.66	1.80	1.94	2.07	2.21	2.35	2.49	2.63
20	2.77	2.90	3.04	3.18	3.32	3.46	3.60	3.73	3.87	4.01
30	4.15	4.29	4.43	4.56	4.70	4.84	4.98	5.12	5.26	5.39
40	5.53	5.67	5.81	5.95	6.09	6.22	6.36	6.50	6.64	6.78
50	6.92	7.05	7.19	7.33	7.47	7.61	7.75	7.88	8.02	8.16
60	8.30	8.44	8.57	8.71	8.85	8.99	9.13	9.27	9.40	9.54
70	9.68	9.82	9.96	10.09	10.23	10.37	10.51	10.65	10.79	10.92
80	11.06	11.20	11.34	11.48	11.62	11.75	11.89	12.03	12.17	12.31
90	12.45	12.59	12.73	12.86	13.00	13.14	13.28	13.42	13.55	13.69
100	13.83	13.97	14.11	14.25	14.38	14.52	14.66	14.80	14.94	15.08
110	15.21	15.35	15.49	15.63	15.76	15.90	16.04	16.18	16.32	16.46

## CONVERSION FROM DECIMAL INCHES TO MILLIMETERS

INCH	MM	INCH	MM	INCH	MM
1	25.4	36	914.4	71	1,803.4
2	50.8	37	939.8	72	1,828.8
3	76.2	38	965.2	73	1,854.2
4	101.6	39	990.6	74	1,879.6
5	127.0	40	1,016.0	75	1,905.0
6	152.4	41	1,041.4	76	1,930.4
7	177.8	42	1,066.8	77	1,955.8
8	203.2	43	1,092.2	78	1,981.2
9	228.6	44	1,117.6	79	2,006.6
10	254.0	45	1,143.0	80	2,032.0
11	279.4	46	1,168.4	81	2,057.4
12	304.8	47	1,193.8	82	2,082.8
13	330.2	48	1,219.2	83	2,108.2
14	355.6	49	1,244.6	84	2,133.6
15	381.0	50	1,270.0	85	2,159.0
16	406.4	51	1,295.4	86	2,184.4
17	431.8	52	1,320.8	87	2,209.8
18	457.2	53	1,346.2	88	2,235.2
19	482.6	54	1,371.6	89	2,260.6
20	508.0	55	1,397.0	90	2,286.0
21	533.4	56	1,422.4	91	2,311.4
22	558.8	57	1,447.8	92	2,336.8
23	584.2	58	1,473.2	93	2,362.2
24	609.6	59	1,498.6	94	2,387.6
25	635.0	60	1,524.0	95	2,413.0
26	660.4	61	1,549.4	96	2,438.4
27	685.8	62	1,574.8	97	2,463.8
28	711.2	63	1,600.2	98	2,489.2
29	736.6	64	1,625.6	99	2,514.6
30	762.0	65	1,651.0	100	2,540.0
31	787.4	66	1,676.4		
32	812.8	67	1,701.8		
33	838.2	68	1,727.2		
34	863.6	69	1,752.6		
35	889.0	70	1,778.0		

NOTE: All values in this table are exact.







# STANDARD WRENCH SIZING CHART

NOMINAL OPENING SIZES OF PROTO® WRENCHES OR SOCKETS IN INCHES TO FIT STANDARD BOLT HEADS, NUTS AND SCREWHEADS



BOLTS—SCREWS									
WRENCH OR SOCKET SIZE		SQUARE & HEX BOLTS, CAP SCREWS & SQUARE & HEX LAG SCREWS	HEAVY HEX BOLTS & SCREWS	HEX FLANGE SCREWS	TAPPING SCREWS	HEX WASHER HEAD TAPPING SCREWS	HEX HEAD MACHINE SCREWS	HEX WASHER HEAD MACHINE SCREWS	SQUARE HEAD SET SCREWS
ACROSS FLATS	DECIMAL EQUIV.								
1/8"	0.1250	—	—	—	#1 & 2	#2 & 3	#1 & 2	#2 & 3	—
5/32"	0.1562	—	—	—	—	—	—	—	—
3/16"	0.1875	—	—	—	#3,4,5	#4 & 5	#3,4,5	#4 & 5	#10
1/4"	0.2500	—	—	—	#6,7,8	#6,7,8	#6 & 8	#6 & 8	1/4"
9/32"	0.2812	#10	—	—	—	—	—	—	—
5/16"	0.3125	—	—	—	#10 & 12	#10 & 12	#10 & 12	#10 & 12	5/16"
11/32"	0.3438	—	—	—	—	—	—	—	—
3/8"	0.3750	1/4"	—	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"
7/16"	0.4375	1/4"	—	—	—	—	—	—	7/16"
1/2"	0.5000	5/16"	—	5/16"	5/16"	5/16"	5/16"	5/16"	1/2"
9/16"	0.5625	3/8"	—	3/8"	3/8"	3/8"	3/8"	3/8"	9/16"
5/8"	0.6250	7/16"	—	7/16"	—	—	—	—	5/8"
11/16"	0.6875	—	—	—	—	—	—	—	—
3/4"	0.7500	1/2"	—	1/2"	—	—	—	—	3/4"
13/16"	0.8125	9/16"	—	9/16"	—	—	—	—	—
7/8"	0.8750	—	1/2"	—	—	—	—	—	7/8"
15/16"	0.9375	5/8"	—	5/8"	—	—	—	—	—
1"	1.0000	—	—	—	—	—	—	—	1"
1-1/16"	1.0625	—	5/8"	—	—	—	—	—	—
1-1/8"	1.1250	3/4"	—	3/4"	—	—	—	—	1-1/8"
1-1/4"	1.2500	—	3/4"	—	—	—	—	—	1-1/4"
1-5/16"	1.3125	7/8"	—	—	—	—	—	—	—
1-3/8"	1.3750	—	—	—	—	—	—	—	1-3/8"
1-7/16"	1.4375	—	7/8"	—	—	—	—	—	—
1-1/2"	1.5000	1"	—	—	—	—	—	—	1-1/2"
1-5/8"	1.6250	—	1"	—	—	—	—	—	—
1-11/16"	1.6875	1-1/8"	—	—	—	—	—	—	—
1-13/16"	1.8125	—	1-1/8"	—	—	—	—	—	—
1-7/8"	1.8750	1-1/4"	—	—	—	—	—	—	—
2"	2.0000	—	1-1/4"	—	—	—	—	—	—
2-1/16"	2.0625	1-3/8"	—	—	—	—	—	—	—
2-3/16"	2.1875	—	1-3/8"	—	—	—	—	—	—
2-1/4"	2.2500	1-1/2"	—	—	—	—	—	—	—
2-3/8"	2.3750	—	1-1/2"	—	—	—	—	—	—
2-7/16"	2.4375	1-5/8"	—	—	—	—	—	—	—
2-9/16"	2.5625	—	1-5/8"	—	—	—	—	—	—
2-5/8"	2.6250	1-3/4"	—	—	—	—	—	—	—
2-3/4"	2.7500	—	1-3/4"	—	—	—	—	—	—
2-13/16"	2.8125	1-7/8"	—	—	—	—	—	—	—
2-15/16"	2.9375	—	1-7/8"	—	—	—	—	—	—
3"	3.0000	2"	—	—	—	—	—	—	—
3-1/8"	3.1250	—	2"	—	—	—	—	—	—
3-3/8"	3.3750	2-1/4"	—	—	—	—	—	—	—
3-1/2"	3.5000	—	2-1/4"	—	—	—	—	—	—
3-3/4"	3.7500	2-1/2"	—	—	—	—	—	—	—
3-7/8"	3.8750	—	2-1/2"	—	—	—	—	—	—
4-1/8"	4.1250	2-3/4"	—	—	—	—	—	—	—
4-1/4"	4.2500	—	2-3/4"	—	—	—	—	—	—
4-1/2"	4.5000	3"	—	—	—	—	—	—	—
4-5/8"	4.6250	—	3"	—	—	—	—	—	—
4-7/8"	4.8750	3-1/4"	—	—	—	—	—	—	—
5"	5.0000	—	3-1/4"	—	—	—	—	—	—
5-1/4"	5.2500	3-1/2"	—	—	—	—	—	—	—
5-3/8"	5.3750	—	3-1/2"	—	—	—	—	—	—
5-5/8"	5.6250	3-3/4"	—	—	—	—	—	—	—
5-3/4"	5.7500	—	3-3/4"	—	—	—	—	—	—
6"	6.0000	4"	—	—	—	—	—	—	—
6-1/8"	6.1250	—	4"	—	—	—	—	—	—
6-1/2"	6.5000	—	4-1/4"	—	—	—	—	—	—
6-7/8"	6.8750	—	4-1/2"	—	—	—	—	—	—
7-1/4"	7.2500	—	4-3/4"	—	—	—	—	—	—
7-5/8"	7.6250	—	5"	—	—	—	—	—	—
8"	8.0000	—	5-1/4"	—	—	—	—	—	—
8-3/8"	8.3750	—	5-1/2"	—	—	—	—	—	—
8-3/4"	8.7500	—	5-3/4"	—	—	—	—	—	—
9-1/8"	9.1250	—	6"	—	—	—	—	—	—





NUTS								
SQUARE NUTS & HEAVY SQUARE NUTS	TRACK, HEAVY HEX & SQUARE, FLAT & JAM NUTS	SQUARE MACHINE SCREW NUTS	HEX NUTS & FLAT CASTLE, SLOTTED & HAM HEX NUTS	HEX FLANGE NUTS	TRACK BOLT NUTS	HEX LOCK NUTS	WRENCH OR SOCKET SIZE	
							ACROSS FLATS	DECIMAL EQUIV.
—	—	—	—	—	—	—	1/8"	0.1250
—	—	#0 & 1	—	—	—	—	5/32"	0.1562
—	—	#2 & 3	—	—	—	—	3/16"	0.1875
—	—	#4	—	—	—	#4	1/4"	0.2500
—	—	—	—	—	—	—	9/32"	0.2812
—	—	#5 & 6	—	#6	—	#6	5/16"	0.3125
—	—	#8	—	#8	—	#8	11/32"	0.3438
—	—	#10	—	#10	—	#10	3/8"	0.3750
1/4"	—	#12 & 14	1/4"	#12 & 14	—	#12 & 14	7/16"	0.4375
1/4"	1/4"	—	5/16"	5/16"	—	5/16"	1/2"	0.5000
5/16"	5/16"	5/16"	3/8"	3/8"	—	3/8"	9/16"	0.5625
3/8"	—	3/8"	—	—	—	—	5/8"	0.6250
3/8"	3/8"	—	7/16"	7/16"	—	7/16"	11/16"	0.6875
7/16"	7/16"	—	1/2"	1/2"	—	1/2"	3/4"	0.7500
1/2"	—	—	—	—	—	—	13/16"	0.8125
1/2"	1/2"	—	9/16"	9/16"	—	9/16"	7/8"	0.8750
—	9/16"	—	5/8"	5/8"	—	5/8"	15/16"	0.9375
5/8"	—	—	—	—	—	—	1"	1.0000
5/8"	5/8"	—	—	—	—	—	1-1/16"	1.0625
3/4"	—	—	3/4"	3/4"	—	3/4"	1-1/8"	1.1250
3/4"	3/4"	—	—	—	3/4" & 13/16"	—	1-1/4"	1.2500
7/8"	—	—	7/8"	—	—	7/8"	1-5/16"	1.3125
—	—	—	—	—	—	—	1-3/8"	1.3750
7/8"	7/8"	—	—	—	7/8"	—	1-7/16"	1.4375
1"	—	—	1"	—	15/16" & 1"	1"	1-1/2"	1.5000
1"	1"	—	—	—	1" & 1-1/16"	—	1-5/8"	1.6250
1-1/8"	—	—	1-1/8"	—	1-1/8"	1-1/8"	1-11/16"	1.6875
1-1/8"	1-1/8"	—	—	—	1-1/8"	—	1-13/16"	1.8125
1-1/4"	—	—	1-1/4"	—	—	1-1/4"	1-7/8"	1.8750
1-1/4"	1-1/4"	—	—	—	—	—	2"	2.0000
1-3/8"	—	—	1-3/8"	—	—	1-3/8"	2-1/16"	2.0625
1-3/8"	1-3/8"	—	—	—	—	—	2-3/16"	2.1875
1-1/2"	—	—	1-1/2"	—	—	1-1/2"	2-1/4"	2.2500
1-1/2"	1-1/2"	—	—	—	—	—	2-3/8"	2.3750
—	—	—	—	—	—	—	2-7/16"	2.4375
—	1-5/8"	—	—	—	—	—	2-9/16"	2.5625
—	—	—	—	—	—	—	2-5/8"	2.6250
—	1-3/4"	—	—	—	—	—	2-3/4"	2.7500
—	—	—	—	—	—	—	2-13/16"	2.8125
—	1-7/8"	—	—	—	—	—	2-15/16"	2.9375
—	—	—	—	—	—	—	3"	3.0000
—	2"	—	—	—	—	—	3-1/8"	3.1250
—	—	—	—	—	—	—	3-3/8"	3.3750
—	2-1/4"	—	—	—	—	—	3-1/2"	3.5000
—	—	—	—	—	—	—	3-3/4"	3.7500
—	2-1/2"	—	—	—	—	—	3-7/8"	3.8750
—	—	—	—	—	—	—	4-1/8"	4.1250
—	2-3/4"	—	—	—	—	—	4-1/4"	4.2500
—	—	—	—	—	—	—	4-1/2"	4.5000
—	3"	—	—	—	—	—	4-5/8"	4.6250
—	—	—	—	—	—	—	4-7/8"	4.8750
—	3-1/4"	—	—	—	—	—	5"	5.0000
—	3-1/2"	—	—	—	—	—	5-1/4"	5.2500
—	3-1/2"	—	—	—	—	—	5-3/8"	5.3750
—	3-3/4"	—	—	—	—	—	5-5/8"	5.6250
—	3-3/4"	—	—	—	—	—	5-3/4"	5.7500
—	4"	—	—	—	—	—	6"	6.0000
—	4"	—	—	—	—	—	6-1/8"	6.1250
—	—	—	—	—	—	—	6-1/2"	6.5000
—	—	—	—	—	—	—	6-7/8"	6.8750
—	—	—	—	—	—	—	7-1/4"	7.2500
—	—	—	—	—	—	—	7-5/8"	7.6250
—	—	—	—	—	—	—	8"	8.0000
—	—	—	—	—	—	—	8-3/8"	8.3750
—	—	—	—	—	—	—	8-3/4"	8.7500
—	—	—	—	—	—	—	9-1/8"	9.1250

# METRIC WRENCH SIZING CHART

NOMINAL OPENING SIZES OF PROTO® WRENCHES OR SOCKETS IN INCHES TO FIT STANDARD BOLT HEADS, NUTS AND SCREWHEADS

Locate thread diameter of bolt, nut or screw in extreme left or right column. Then move across to box which has proper identification of bolt, nut or screw at top of vertical column. The size in this particular box is the nominal opening size in inches of the PROTO® wrench and sockets that will fit.

American Standards Association—ASA B18.2, Appendix I

BOLTS: Use Wrench or Socket Size Shown Below			
WRENCH OR SOCKET SIZE ACROSS FLATS	HEX BOLTS	HEAVY HEX BOLTS	HEAVY HEX STRUCTURAL BOLTS
3.20	—	—	—
4.00	—	—	—
5.00	—	—	—
5.50	—	—	—
6.00	—	—	—
7.00	—	—	—
8.00	M5 x 0.8	—	—
10.00	M6 x 1	—	—
13.00	M8 x 1.25	—	—
15.00	M10 x 1.5	—	—
16.00	M10 x 1.5	—	—
18.00	M12 x 1.75	—	—
21.00	M14 x 2	M12 x 1.75	—
24.00	M16 x 2	M14 x 2	—
27.00	—	M16 x 2	M16 x 2
30.00	M20 x 2.5	—	—
34.00	—	M20 x 2.5	M20 x 2.5
36.00	M24 x 3	—	M22 x 2.5
41.00	—	M24 x 3	M24 x 3
46.00	M30 x 3.5	—	M27 x 3
50.00	—	M30 x 3.5	M30 x 3.5
55.00	M36 x 4	—	—
60.00	—	M36 x 4	M36 x 4
65.00	M42 x 4.5	—	—
70.00	—	—	—
75.00	M48 x 5	—	—
80.00	—	—	—
85.00	M56 x 5.5	—	—
90.00	—	—	—
95.00	M64 x 6	—	—
100.00	—	—	—
105.00	M72 x 6	—	—
110.00	—	—	—
115.00	M80 x 6	—	—
120.00	—	—	—
130.00	M90 x 6	—	—
135.00	—	—	—
145.00	M100 x 6	—	—
150.00	—	—	—

NUTS: Use Wrench or Socket Size Shown Below				
HEX NUTS STYLE 1	HEX NUTS STYLE 1	SLOTTED & HAM HEX NUTS	HEAVY HEX NUTS	WRENCH OR SOCKET SIZE ACROSS FLATS
M1.6 x 0.35	—	—	—	3.20
M2 x 0.4	—	—	—	4.00
M2.5 x 0.45	—	—	—	5.00
M3 x 0.5	M3 x 0.5	—	—	5.50
M3.5 x 0.6	M3.5 x 0.6	—	—	6.00
M4 x 0.7	M4 x 0.7	—	—	7.00
M5 x 0.8	M5 x 0.8	M5 x 0.8	—	8.00
M6 x 1	M6 x 1	M6 x 1	—	10.00
M8 x 1.25	M8 x 1.25	M8 x 1.25	—	13.00
M10 x 1.5	M10 x 1.5	M10 x 1.5	—	15.00
M10 x 1.5	M10 x 1.5	M10 x 1.5	—	16.00
M12 x 1.75	M12 x 1.75	M12 x 1.75	—	18.00
M14 x 2	M14 x 2	M14 x 2	M12 x 1.75	21.00
M16 x 2	M16 x 2	M16 x 2	M14 x 2	24.00
—	—	—	M16 x 2	27.00
M20 x 2.5	M20 x 2.5	M20 x 2.5	—	30.00
—	—	—	M20 x 2.5	34.00
M24 x 3	M24 x 3	M24 x 3	M22 x 2.5	36.00
—	—	—	M24 x 3	41.00
M30 x 3.5	M30 x 3.5	M30 x 3.5	M27 x 3	46.00
—	—	—	M30 x 3.5	50.00
M36 x 4	M36 x 4	M36 x 4	—	55.00
—	—	—	M36 x 4	60.00
—	—	—	—	65.00
—	—	—	M42 x 4.5	70.00
—	—	—	—	75.00
—	—	—	M48 x 5	80.00
—	—	—	—	85.00
—	—	—	M56 x 5.5	90.00
—	—	—	—	95.00
—	—	—	M64 x 6	100.00
—	—	—	—	105.00
—	—	—	M72 x 6	110.00
—	—	—	—	115.00
—	—	—	M80 x 6	120.00
—	—	—	—	130.00
—	—	—	M90 x 6	135.00
—	—	—	—	145.00
—	—	—	M100 x 6	150.00



# STANDARD TORQUE VALUE CHART FOR METRIC FASTENERS (TORQUE—KILO-NEWTON)

## CONVERSION GUIDANCE

- › Class 4.6 is approximately equal to SAE Grade 1, and ASTM A307, Grade A.
- › Class 5.8 is approximately equal to SAE Grade 2.
- › Class 8.8 is approximately equal to SAE Grade 5, and ASTM A449.
- › Class 9.8 has properties approximately 9 percent stronger than SAE Grade 5, and ASTM A449.
- › Class 10.9 is approximately equal to SAE Grade 8, and ASTM A354, Grade BD.

CLASS	4.6	4.8	5.8	8.8	9.8	10.9	12.9
<b>PROOF LOAD MPA</b>	225	310	380	600	650	830	970
<b>M1.6x0.35 (0.063)</b>		0.39			0.83		1.23
<b>M2x0.4 (0.079)</b>		0.64			1.35		2.01
<b>M2.5x0.45 (0.098)</b>		1.05			2.20		3.29
<b>M3x0.5 (0.118)</b>		1.56			3.27		4.88
<b>M3.4x0.6 (0.138)</b>		2.10			4.41		6.58
<b>M4x0.7 (0.157)</b>		2.72			5.71		8.52
<b>M5x0.8 (0.197)</b>	3.20	4.40	5.40		9.23	11.80	13.80
<b>M6.3x1 (0.248)</b>	5.09	7.01	8.59		14.70	18.80	21.90
<b>M8x1.25 (0.315)</b>	8.24	11.30	13.90		23.80	30.40	35.50
<b>M10x1.5 (0.394)</b>	13.10	18.00	22.00		37.70	48.10	56.30
<b>M12x1.75 (0.472)</b>	19.00	26.10	32.00		54.80	70.00	81.80
<b>M14x2 (0.551)</b>	25.90	35.70	43.70		74.80	95.40	112.00
<b>M16x2 (0.630)</b>	35.30	48.70	59.70	94.20	102.00	130.00	152.00
<b>M20x2.5 (0.787)</b>	55.10		93.10	147.00		203.00	238.00
<b>M24x3 (0.945)</b>	79.40		134.00	212.00		293.00	342.00
<b>M30x3.5 (1.181)</b>	126.00			337.00		466.00	544.00
<b>M36x4 (1.417)</b>	184.00			490.00		678.00	792.00



# NEWTON METER TORQUE VALUE CONVERSIONS

**NOTE:** The International Metric System measures torque in Newton meters (Nm).  
A Newton is defined as the force necessary to move one kilogram one meter per second.

## FROM FT-LB TO NM

Ft Lb	0 Nm	1 Nm	2 Nm	3 Nm	4 Nm	5 Nm	6 Nm	7 Nm	8 Nm	9 Nm
0	0	1.36	2.71	4.07	5.42	6.78	8.13	9.49	10.84	12.20
10	13.56	14.91	16.27	17.62	18.98	20.33	21.69	23.05	24.40	25.76
20	27.11	28.47	29.83	31.18	32.54	33.89	35.25	36.61	37.97	39.32
30	40.67	42.02	43.38	44.73	46.09	47.45	48.80	50.16	51.51	52.87
40	54.22	55.58	56.94	58.29	59.65	61.00	62.36	63.71	65.07	66.42
50	67.78	69.14	70.49	71.85	73.20	74.56	75.91	77.27	78.62	79.98
60	81.33	82.69	84.05	85.40	86.76	88.11	89.47	90.83	92.18	93.54
70	94.89	96.25	97.60	98.96	100.31	101.67	103.03	104.38	105.74	107.09
80	108.45	109.80	111.16	112.51	113.87	115.23	116.58	117.94	119.29	120.65
90	122.00	123.36	124.72	126.07	127.43	128.78	130.14	131.49	132.85	134.20
100	135.58									

$ft-lb \times 1.3558 = Nm$

## FROM NM TO FT-LB

Nm	0 ft-lb	1 ft-lb	2 ft-lb	3 ft-lb	4 ft-lb	5 ft-lb	6 ft-lb	7 ft-lb	8 ft-lb	9 ft-lb
0	0	0.74	1.48	2.21	2.95	3.69	4.43	5.16	5.90	6.64
10	7.38	8.11	8.85	9.59	10.33	11.06	11.80	12.54	13.28	14.01
20	14.75	15.49	16.23	16.96	17.70	18.44	19.18	19.91	20.65	21.39
30	22.13	22.86	23.60	24.34	25.08	25.81	26.55	27.29	28.03	28.76
40	29.50	30.24	30.98	31.72	32.45	33.19	33.93	34.67	35.40	36.14
50	36.88	37.62	38.35	39.09	39.83	40.57	41.30	42.04	42.78	43.52
60	44.25	44.99	45.73	46.47	47.20	47.94	48.68	49.42	50.15	50.89
70	51.63	52.37	53.10	53.84	54.58	55.32	56.05	56.79	57.53	58.27
80	59.00	59.74	60.48	61.22	61.96	62.70	63.43	64.17	64.91	65.64
90	66.38	67.12	67.86	68.59	69.33	70.07	70.81	71.54	72.28	73.02
100	73.76									

$Nm \times 0.73756 = ft-lb$

## FROM IN-LB TO NM

In Lb	0 Nm	1 Nm	2 Nm	3 Nm	4 Nm	5 Nm	6 Nm	7 Nm	8 Nm	9 Nm
0	0	0.11	0.22	0.33	0.45	0.56	0.67	0.79	0.90	1.02
10	1.13	1.24	1.36	1.47	1.58	1.70	1.81	1.92	2.03	2.15
20	2.26	2.37	2.49	2.60	2.71	2.83	2.94	3.05	3.16	3.28
30	3.39	3.50	3.62	3.73	3.84	3.96	4.07	4.18	4.29	4.41
40	4.52	4.63	4.75	4.86	4.97	5.09	5.20	5.31	5.42	5.54
50	5.65	5.76	5.88	5.99	6.10	6.22	6.33	6.44	6.55	6.67
60	6.78	6.89	7.01	7.12	7.23	7.35	7.46	7.57	7.68	7.80
70	7.91	8.02	8.14	8.25	8.36	8.48	8.59	8.70	8.81	8.93
80	9.04	9.15	9.27	9.38	9.49	9.61	9.72	9.83	9.94	10.06
90	10.17	10.28	10.40	10.51	10.62	10.74	10.85	10.96	11.07	11.19
100	11.30									

$in-lb \times .1130 = Nm$

## FROM NM TO IN-LB

Nm	0 in-lb	1 in-lb	2 in-lb	3 in-lb	4 in-lb	5 in-lb	6 in-lb	7 in-lb	8 in-lb	9 in-lb
0	0	8.85	17.70	26.55	35.40	44.25	53.10	61.95	70.81	79.66
10	88.51	97.36	106.21	115.06	123.91	132.76	141.61	150.46	159.31	168.16
20	177.01	185.86	194.72	203.57	212.42	221.27	230.12	238.98	247.82	256.67
30	265.52	274.38	283.22	292.07	300.92	309.77	318.62	327.48	336.33	345.18
40	354.03	362.88	371.73	380.58	389.43	398.28	407.13	415.98	424.83	433.68
50	442.53	451.38	460.24	469.09	477.94	486.79	495.64	504.49	513.34	522.19
60	531.04	539.89	548.74	557.59	566.44	575.30	584.15	593.00	601.85	610.70
70	619.55	628.40	637.25	646.10	654.95	663.80	672.65	681.50	690.35	699.20
80	708.06	716.91	725.76	734.61	743.46	752.31	761.16	770.01	778.86	787.72
90	796.56	805.41	814.26	823.12	831.97	840.82	849.67	858.52	867.37	876.22
100	885.07									

$Nm \times 8.8507 = in-lb$

## FROM IN-OZ TO NM

In Oz	0 Nm	1 Nm	2 Nm	3 Nm	4 Nm	5 Nm	6 Nm	7 Nm	8 Nm	9 Nm
0	0	.007	.014	.021	.028	.035	.042	.049	.056	.064
10	.071	.078	.085	.092	.098	.106	.113	.120	.127	.134
20	.141	.148	.155	.162	.169	.177	.184	.191	.198	.205
30	.212	.219	.226	.232	.240	.247	.254	.261	.268	.275
40	.282	.289	.297	.304	.312	.318	.324	.332	.339	.346
50	.353	.360	.367	.374	.381	.388	.395	.402	.409	.417
60	.424	.431	.438	.445	.452	.459	.466	.473	.480	.487
70	.494	.501	.508	.515	.522	.530	.537	.544	.551	.558
80	.565	.572	.579	.586	.593	.600	.607	.614	.621	.628
90	.635	.642	.650	.657	.664	.671	.678	.685	.692	.699
100	.706									

$in-oz \times .00706 = Nm$

## FROM NM TO IN-OZ

Nm	.00 in-oz	.01 in-oz	.02 in-oz	.03 in-oz	.04 in-oz	.05 in-oz	.06 in-oz	.07 in-oz	.08 in-oz	.09 in-oz
0.0	0	1.42	2.83	4.25	5.66	7.08	8.50	9.91	11.33	12.74
0.1	14.16	15.58	16.99	18.41	19.83	21.24	22.66	24.07	25.49	26.91
0.2	28.32	29.74	31.15	32.57	33.99	35.40	36.82	38.23	39.65	41.07
0.3	42.48	43.90	45.32	46.73	48.15	49.56	50.98	52.40	53.81	55.23
0.4	56.64	58.06	59.48	60.89	62.31	63.72	65.14	66.56	67.97	69.39
0.5	70.81	72.22	73.64	75.05	76.47	77.89	79.30	80.72	82.13	83.55
0.6	84.97	86.41	87.80	89.21	90.63	92.05	93.46	94.88	96.30	97.71
0.7	99.13	100.54	101.96	103.38	104.79	106.21	107.62	109.04	110.46	111.87
0.8	113.29	114.70	116.12	117.54	118.95	120.37	121.79	123.20	124.62	126.03
0.9	127.45	128.87	130.28	131.70	133.11	134.53	135.95	137.36	138.78	140.19
1.0	141.61									

$Nm \times 141.6119 = in-oz$

## FROM M-KG TO NM

M Kg	0 Nm	1 Nm	2 Nm	3 Nm	4 Nm	5 Nm	6 Nm	7 Nm	8 Nm	9 Nm
0	0	9.81	19.61	29.42	39.23	49.03	58.84	68.65	78.45	88.26
10	98.07	107.87	117.68	127.49	137.30	147.10	156.90	166.71	176.52	186.33
20	196.13	205.94	215.75	225.55	235.36	245.17	254.98	264.78	274.59	284.40
30	294.20	304.00	313.81	323.62	333.43	343.23	353.04	362.85	372.65	382.46
40	392.27	402.07	411.88	421.69	431.49	441.30	451.11	460.91	470.72	480.53
50	490.33	500.14	509.95	519.75	529.56	539.37	549.17	558.98	568.79	578.60
60	588.40	598.21	608.01	617.82	627.63	637.43	647.24	657.05	666.86	676.66
70	686.47	696.27	706.08	715.89	725.70	735.50	745.30	755.11	764.92	774.73
80	784.53	794.34	804.15	813.95	823.76	833.57	843.37	853.18	862.99	872.79
90	882.60	892.41	902.21	912.02	921.83	931.63	941.44	951.25	961.05	970.86
100	980.67									

$m-kg \text{ (or kpm)} \times 9.80665 = Nm$

## FROM NM TO M-KG

Nm	0 m-kg	1 m-kg	2 m-kg	3 m-kg	4 m-kg	5 m-kg	6 m-kg	7 m-kg	8 m-kg	9 m-kg
0	0	0.102	0.204	0.306	0.408	0.510	0.611	0.714	0.816	0.918
10	1.020	1.122	1.224	1.326	1.428	1.530	1.632	1.733	1.835	1.937
20	2.039	2.141	2.243	2.345	2.447	2.549	2.651	2.753	2.855	2.957
30	3.059	3.161	3.263	3.365	3.467	3.569	3.671	3.773	3.875	3.977
40	4.079	4.181	4.283	4.385	4.487	4.589	4.691	4.793	4.895	4.997
50	5.099	5.200	5.302	5.404	5.506	5.608	5.710	5.812	5.914	6.016
60	6.118	6.220	6.322	6.424	6.526	6.628	6.730	6.832	6.934	7.036
70	7.138	7.240	7.342	7.444	7.546	7.648	7.750	7.852	7.954	8.056
80	8.158	8.260	8.362	8.464	8.566	8.668	8.769	8.871	8.973	9.075
90	9.177	9.279	9.381	9.483	9.585	9.687	9.789	9.891	9.993	10.095
100	10.197									

$Nm \times .10197 = m-kg \text{ (or kpm)}$



# TORQUE VALUE CONVERSIONS

NOTE: One meter kilogram is equal to one meter kilopond (expressed as: 1 m-kg - 1kpm)



## FROM IN-LB TO IN-OZ

In Lb	0	1	2	3	4	5	6	7	8	9
	in-oz	in-oz	in-oz	in-oz	in-oz	in-oz	in-oz	in-oz	in-oz	in-oz
0	0	16	32	48	64	80	96	112	128	144
10	160	176	192	208	224	240	256	272	288	304
20	320	336	352	368	384	400	416	432	448	464
30	480	496	512	528	544	560	576	592	608	624
40	640	656	672	688	704	720	736	752	768	784
50	800	816	832	848	864	880	896	912	928	944
60	960	976	992	1008	1024	1040	1056	1072	1088	1104
70	1120	1136	1152	1168	1184	1200	1216	1232	1248	1264
80	1280	1296	1312	1328	1344	1360	1376	1392	1408	1424
90	1440	1456	1472	1488	1504	1520	1536	1552	1568	1584
100	1600									

$in-lb \times 16 = in-oz$

## FROM IN-OZ TO IN-LB

In Oz	0	1	2	3	4	5	6	7	8	9
	in-lb	in-lb	in-lb	in-lb	in-lb	in-lb	in-lb	in-lb	in-lb	in-lb
0	0	0.063	0.125	0.188	0.250	0.313	0.375	0.438	0.500	0.563
10	0.625	0.688	0.750	0.813	0.875	0.938	1.000	1.063	1.125	1.188
20	1.250	1.313	1.375	1.438	1.500	1.563	1.625	1.688	1.750	1.813
30	1.875	1.938	2.000	2.063	2.125	2.188	2.250	2.313	2.375	2.438
40	2.500	2.563	2.625	2.688	2.750	2.813	2.875	2.938	3.000	3.063
50	3.125	3.188	3.250	3.313	3.375	3.438	3.500	3.563	3.625	3.688
60	3.750	3.813	3.875	3.938	4.000	4.063	4.125	4.188	4.250	4.313
70	4.375	4.438	4.500	4.563	4.625	4.688	4.750	4.813	4.875	4.938
80	5.000	5.063	5.125	5.188	5.250	5.313	5.375	5.438	5.500	5.563
90	5.625	5.688	5.750	5.813	5.875	5.938	6.000	6.063	6.125	6.188
100	6.250									

$in-oz \div 16 = in-lb$

## FROM FT-LB TO IN-LB

Ft Lb	0	1	2	3	4	5	6	7	8	9
	in-lb	in-lb	in-lb	in-lb	in-lb	in-lb	in-lb	in-lb	in-lb	in-lb
0	0	12	24	36	48	60	72	84	96	108
10	120	132	144	156	168	180	192	204	216	228
20	240	252	264	276	288	300	312	324	336	348
30	360	372	384	396	408	420	432	444	456	468
40	480	492	504	516	528	540	552	564	576	588
50	600	612	624	636	648	660	672	684	696	708
60	720	732	744	756	768	780	792	804	816	828
70	840	852	864	876	888	900	912	924	936	948
80	960	972	984	996	1008	1020	1032	1044	1056	1068
90	1080	1092	1104	1116	1128	1140	1152	1164	1176	1188
100	1200									

$ft-lb \times 12 = in-lb$

## FROM IN-LB TO FT-LB

In Lb	0	1	2	3	4	5	6	7	8	9
	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb
0	0	0.083	0.167	0.250	0.333	0.417	0.500	0.583	0.667	0.750
10	0.833	0.917	1.000	1.083	1.167	1.250	1.333	1.417	1.500	1.583
20	1.667	1.750	1.833	1.917	2.000	2.083	2.167	2.250	2.333	2.417
30	2.500	2.583	2.667	2.750	2.833	2.917	3.000	3.083	3.167	3.250
40	3.333	3.417	3.500	3.583	3.667	3.750	3.833	3.917	4.000	4.083
50	4.167	4.250	4.333	4.417	4.500	4.583	4.667	4.750	4.833	4.917
60	5.000	5.083	5.167	5.250	5.333	5.417	5.500	5.583	5.667	5.750
70	5.833	5.917	6.000	6.083	6.167	6.250	6.333	6.417	6.500	6.583
80	6.667	6.750	6.833	6.917	7.000	7.083	7.167	7.250	7.333	7.417
90	7.500	7.583	7.667	7.750	7.833	7.917	8.000	8.083	8.167	8.250
100	8.333									

$in-lb \div 12 = ft-lb$

## FROM IN-LB TO CM-KG

In Lb	0	1	2	3	4	5	6	7	8	9
	cm-kg	cm-kg	cm-kg	cm-kg	cm-kg	cm-kg	cm-kg	cm-kg	cm-kg	cm-kg
0	0	1.15	2.30	3.45	4.60	5.76	6.91	8.06	9.21	10.36
10	11.52	12.67	13.83	14.97	16.13	17.28	18.43	19.59	20.74	21.89
20	23.04	24.19	25.35	26.49	27.65	28.80	29.96	31.07	32.26	33.41
30	34.56	35.71	36.87	38.02	39.17	40.32	41.47	42.62	43.77	44.93
40	46.09	47.23	48.39	49.54	50.69	51.85	52.99	54.14	55.29	56.45
50	57.61	58.75	59.90	61.06	62.21	63.37	64.51	65.66	66.81	67.96
60	69.13	70.27	71.42	72.57	73.73	74.89	76.03	77.18	78.33	79.49
70	80.65	81.79	82.94	84.05	85.21	86.41	87.58	88.75	89.91	91.00
80	92.17	93.32	94.49	95.66	96.83	97.93	99.08	100.20	101.40	102.60
90	103.70	104.90	106.10	107.20	108.30	109.50	110.70	111.80	112.90	114.10
100	115.20									

$in-lb \times 1.152 = cm-kg$

## FROM CM-KG TO IN-LB

Cm Kg	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb
0	0	.868	1.735	2.603	3.471	4.339	5.206	6.074	6.942	7.809
10	8.677	9.545	10.412	11.280	12.148	13.016	13.883	14.751	15.619	16.486
20	17.354	18.222	19.089	19.957	20.825	21.693	22.560	23.428	24.296	25.163
30	26.031	26.899	27.766	28.634	29.502	30.370	31.237	32.105	32.973	33.840
40	34.708	35.576	36.443	37.311	38.179	39.047	39.914	40.782	41.650	42.517
50	43.385	44.253	45.120	45.988	46.856	47.724	48.591	49.459	50.327	51.194
60	52.062	52.930	53.797	54.665	55.533	56.401	57.268	58.136	59.004	59.871
70	60.739	61.607	62.474	63.342	64.210	65.078	65.945	66.813	67.681	68.548
80	69.416	70.284	71.151	72.019	72.887	73.754	74.622	75.490	76.358	77.225
90	78.093	78.961	79.828	80.696	81.564	82.432	83.299	84.167	85.035	85.902
100	86.770									

$cm-kg \times .8677 = in-lb$

## FROM FT-LB TO M-KG

Ft Lb	0	1	2	3	4	5	6	7	8	9
	m-kg	m-kg	m-kg	m-kg	m-kg	m-kg	m-kg	m-kg	m-kg	m-kg
0	0	0.138	0.277	0.415	0.553	0.691	0.830	0.968	1.106	1.245
10	1.383	1.521	1.660	1.798	1.936	2.074	2.212	2.351	2.489	2.628
20	2.766	2.904	3.043	3.181	3.319	3.457	3.596	3.734	3.872	4.011
30	4.149	4.287	4.426	4.564	4.702	4.840	4.979	5.117	5.255	5.394
40	5.532	5.670	5.809	5.947	6.085	6.223	6.362	6.500	6.638	6.777
50	6.915	7.053	7.191	7.330	7.468	7.606	7.745	7.883	8.021	8.159
60	8.298	8.436	8.574	8.713	8.851	8.989	9.128	9.266	9.404	9.543
70	9.681	9.819	9.957	10.09	10.23	10.37	10.51	10.65	10.79	10.92
80	11.06	11.20	11.34	11.48	11.62	11.75	11.89	12.03	12.17	12.31
90	12.45	12.59	12.73	12.86	13.00	13.14	13.28	13.42	13.55	13.69
100	13.83									

$ft-lb \times .1383 = m-kg$

## FROM M-KG TO FT-LB

M Kg	0	1	2	3	4	5	6	7	8	9
	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb	ft-lb
0	0	7.23	14.47	21.70	28.93	36.17	43.40	50.63	57.86	65.10
10	72.40	79.6	86.8	94.0	101.3	108.5	115.7	123.0	130.2	137.4
20	144.70	151.9	159.1	166.4	173.6	180.8	188.1	195.3	202.5	209.8
30	217.0	224.2	231.5	238.7	245.9	253.2	260.4	267.6	274.9	282.1
40	289.3	296.6	303.9	311.0	318.3	325.5	332.7	340.0	347.2	354.4
50	361.7	368.9	376.1	383.3	390.6	397.8	405.0	412.3	419.5	426.7
60	434.0	441.2	448.4	455.7	462.9	470.1	477.3	484.6	491.8	499.1
70	506.3	513.5	520.8	528.0	535.2	542.5	549.7	556.9	564.2	571.4
80	578.6	585.9	593.1	600.3	607.6	614.8	622.0	629.3	636.5	643.7
90	651.0	658.2	665.4	672.7	679.9	687.1	694.4	701.6	708.8	716.1
100	723.3									

$m-kg \times 7.233 = ft-lb$





# SPECIFICATIONS AND QUALITY

## PRODUCT SPECIFICATIONS

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Dimensions, sizes and weights listed for products in this catalog are nominal and are provided as a convenience for reference only. No representations or warranties are made as to the dimensions and weights listed in the Proto® Catalog. They are subject to change without notice.

## INDUSTRY SPECIFICATIONS

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Applicable products are designed and manufactured to meet and exceed applicable industry standards.

All of the specifications, descriptions and data shown in the Proto® Catalog are intended as a guide.

The ASME, ANSI, Federal and Aerospace specifications are for classification of types of tools and do not mean that, in every case, the tool is in full compliance with the specification indicated.

When bidding on tools that require conformity to specifications or a commercial item description, please contact our Customer Service experts at 1-800-800-TOOL.

## PROTO® QUALITY CONTROL

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The Proto® Engineering Test and Measurement Laboratory is utilized for product testing and part measurement inspections. It uses advanced measurement equipment and technology while maintaining full metallurgical capabilities. The lab is ISO9001-certified.

Product quality audits are performed in the Manufacturing Plants and Distribution Centers. Engineering teams incorporate Computer Aided Designs (CAD) and Finite Element Analysis (FEA) to ensure designs are optimized for performance, aesthetics, and manufacturability. Inspections of initial material receipt through final assembly and finishing are performed to ensure each area of the tool manufacturing process meets the design specifications. Use of "in-process" drawings allows operators to machine and inspect parts at each stage of the manufacturing process.

Cross-functional teams including sales, product management, manufacturing, and engineering help ensure that customer needs are being addressed in design and development stages. New products are field tested in the pre-production development stage to ensure they stand up to the rigor of actual field use prior to production release.

Torque measurement products are fully tested and calibrated prior to leaving the manufacturing facility.

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# WARRANTY AND DISCLAIMER

## LIMITED LIFETIME WARRANTY

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Except as specified below, Proto Industrial Tools, a business unit of Stanley Black & Decker, Inc. ("Proto") warrants any of its Proto® branded products, including products sold by Proto Industrial Tools that are marketed as products "by Proto," for the useful life of the product against defects in material or workmanship.

Torque Wrenches, Torque Multipliers and Torque Testers are warranted for one year, except for calibration which is warranted for 90 days from date of purchase. Torque products can be repaired and recalibrated for a nominal charge at the Proto authorized repair center located at 2195 East View Parkway, Ste 103, Conyers, GA, 30013 or any other such location as may be designated by Proto. Defects in material or workmanship will be repaired or replaced at no cost; all other repairs will be at a nominal charge. Torque products are precise measuring devices that require care in handling. Proto recommends that all torque wrenches be recalibrated once a year or more, depending on usage.

## DISCLAIMERS AND LIMITATIONS

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This limited lifetime warranty:

- › Is subject to the disclaimers and limitations described below and is in lieu of all other warranties, express or implied, including the implied warranty of merchantability or fitness for a particular purpose.
- › Gives you specific legal rights. You may also have other rights that vary by state.
- › Does not extend to products that have been improperly used, altered, or repaired by any entity other than Proto.
- › Does not cover the following categories of products: universal sockets, universal joints, thin-wall impact sockets, adapters, and retaining rings.
- › Does not cover damage due to ordinary wear and tear.
- › Does not extend to any claim for incidental, consequential, or special damages. Some states do not allow the exclusion of limitation of incidental or consequential damages, so this exclusion may not apply to you.
- › Proto makes no representations beyond those contained in this Limited Lifetime Warranty.
- › Employees and agents of Proto have no authority to make representations of any sort beyond those contained in this Limited Lifetime Warranty.

## EXCLUSIVE REMEDY AND CLAIM PROCEDURE

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- › Distributors of record must act as a return agent.
- › The exclusive remedy under this Limited Lifetime Warranty for products determined to be deficient in materials or workmanship by Proto is repair or replacement with a reconditioned tool of equal value by Proto.
- › The selected remedy is at the sole discretion of Proto. In no event shall Proto be responsible for more than the original purchase price of the product.





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