

TOOLS UNLIMITED

PRESENTS

A PREMIUM HAND TOOL LINE

EQUIVELANT TO

PROTO SK ARMSTRONG

But WITHOUT THE HIGH PRICE

URREA

PROFESSIONAL TOOLS

URREA

HAND SOCKETS AND ACCESSORIES

SOCKETS SETS WITH ACCESSORIES, VARIETY OF DRIVE SIZES



1/4" DRIVE SOCKETS SETS WITH ACCESSORIES



3/8" DRIVE SOCKETS SETS WITH ACCESSORIES



1/2" DRIVE SOCKETS SETS WITH ACCESSORIES



3/4" DRIVE SOCKETS SETS WITH ACCESSORIES



1" DRIVE SOCKETS SETS WITH ACCESSORIES



URREA offers one of the most extensive lines of top-quality sockets and accessories for automotive maintenance and repair work, as well as for maintenance, repair and operating work in the production, extraction and assembly industries.

URREA sockets and accessories are tools used to tighten and loosen nuts, bolts, and other fasteners. Sockets are particularly useful in applications when fasteners are in spaces or areas where a combination, open-end, or box-end wrench can't reach, such as automobile engines, internal machinery parts, structures, heavy industry, the petroleum industry and similar applications.

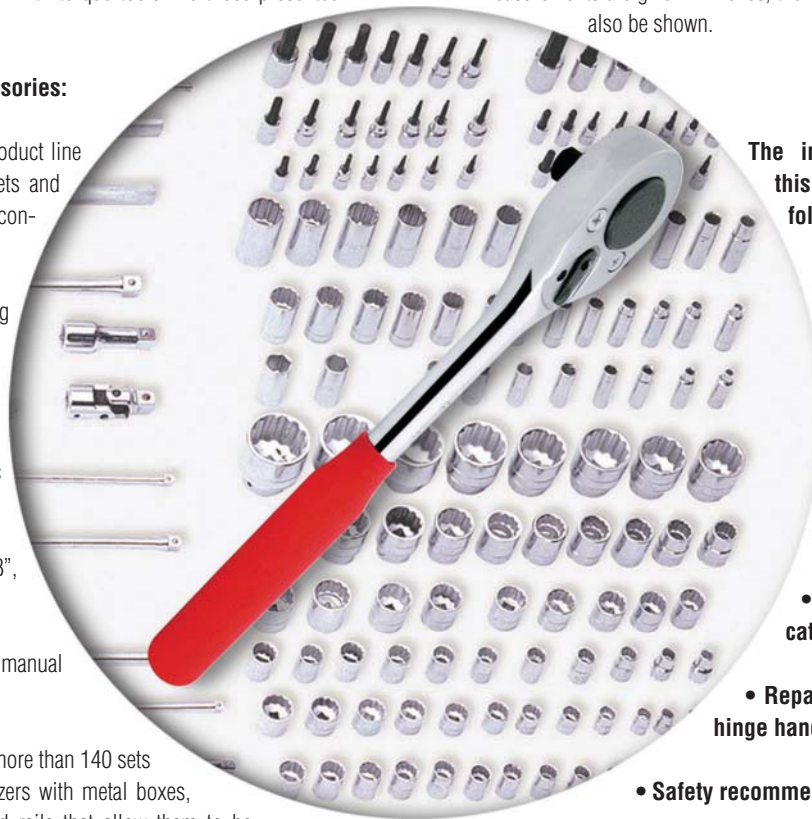
URREA also offers specialty automotive sockets and accessories for applications such as installing and removing oxygen sensors, adjusting truck axles and wheel bearings, and various other specialties that you will find in this section of the catalog.

URREA sockets are offered with double hexagon, or 12-point, opening or with 6-point hex opening, and they have a ball (bearing) attachment system that holds sockets securely in the drive or accessory while they're being used but releases them easily and with little effort when the job is done.

The sockets presented in this section are called hand sockets, because they are driven by manual drives and accessories such as ratchet handles, hinge handles, sliding bars, and L-handles. When tightening with controlled torque is required, sockets are driven with torque tools like those presented in Section 7.

URREA sockets and accessories:

- Offer a great breadth of product line with more than 950 sockets and accessories in a variety of configurations.
 - Short (standard) and long (deep) length.
 - 12-point and 6-point.
 - In Fractional and metric system sizes.
 - Available in 1/4", 3/8", 1/2", 3/4" and 1" drives.
- Include a wide variety of manual handles and accessories.
- Grouped and combined in more than 140 sets offered in practical organizers with metal boxes, plastic boxes, or clips and rails that allow them to be transported and kept organized.



- Fabricated using high-quality micro-alloyed steel, hot or cold forged depending on their size.
- Precision machined and heat-treated to provide the best combination of hardness, tensile strength and torque strength.
- Socket openings incorporate the SUPER DRIVE® design to make them even tougher.
- All URREA sockets and accessories have a tough nickel-chromium finish for corrosion resistance. For FOD (Foreign Object Debris) applications, the use of sockets with a blued finish is recommended so that no coating will flake off. See Section 4 of this catalog.
- Compliant with American and European domestic and international standards.
- Country of origin stamped permanently and indelibly on each tool, reinforcing their high-quality image. This country of origin stamp complies with ASME / ANSI standards and the regulations of the Federal Trade Commission of the United States of America.
- These are the only tools that comply with the Federal Metrology and Fractionalization Law of the United States of Mexico, which states(1) that if measurements are given in inches, the metric system equivalent must also be shown.

The information presented in this chapter is organized as follows:

- Technical standards.
- Super Drive design.
- Manufacturing process.
- Quick selection guides.
- Detailed product specifications.
- Repair of ratchet handles and hinge handles.
- Safety recommendations.

VARIETY OF HAND SOCKETS

DEEP SOCKETS

- Access to deep spaces.
- Designed for use on nuts with long protruding bolt stems.
- Eliminates the use of extensions.



SOCKETS

- Can be used in tight spaces.
- Reaches the nut or bolt more easily.
- Convenient for working with nuts or bolts that are not located in deep narrow cavities and don't have long stems.



SOCKETS WITH HEX AND TORX TIPS

- For working on screws with hex or Torx® socket heads.



12-POINT SOCKETS

- Engage more quickly on nuts or bolt heads.
- Swing arc is shortened to engage at 30° with the nut or bolt head.



6-POINT SOCKETS

- Large contact area between nut and socket faces.
- 60° swing arc lets you apply more torque.
- The larger area of contact with the nut or bolt head keeps the part from being stripped or deformed.



URREA CODING GUIDE

SOCKETS

DRIVE SIZE	STANDARD 	METRIC 	STANDARD 	METRIC
	CODE	CODE	CODE	CODE
1/4"	47XXT	47XXTM	47XX	47XXM
3/8"	52XX	52XXM	52XXH	52XXHM
1/2"	54XX	54XXM	54XXH	54XXHM
3/4"	55XX	55XXM	55XXH	55XXHM
1"	57XX	57XXM	57XXH	57XXHM
	58XX			

The XX represent the hex or 12-point hex size in 32nds of an inch.
Example: 4708 = 8/32" = 1/4"

DEEP SOCKETS

DRIVE SIZE	DEEP STANDARD 	DEEP METRIC 	DEEP STANDARD 	DEEP METRIC
	CODE	CODE	CODE	CODE
1/4"	47XXLT	47XXLTM	47XXL	47XXLM
3/8"	50XX	50XXM	50XXH	50XXHM
1/2"	53XX	53XXM	53XXH	53XXHM
3/4"	55XXL	55XXLM	55XXHL	55XXHLM
1"	57XXL	57XXLM	57XXHL	57XXHLM
	58XXL	58XXLM		

The XX in the codes ending with M represent the size of the hex or 12-point hex in millimeters.
Example: 5017M = 17 millimeters.

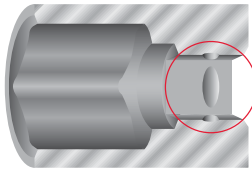
GUIDE TO SYMBOLS

Handle with 1/4" drive	Socket with Torx® tip	Metal box	Deep socket, Type I (bolt end smaller)	Pear-head ratchet handle	1/4" hex insert, Phillips tip
Handle with 3/8" drive	Socket with hex tip	Blowmolded box	Deep socket, Type II (straight)	Round-head ratchet handle	1/4" hex insert, flat tip
Handle with 1/2" drive	Female Torx® socket	Packing material	Deep socket, Type III (drive end smaller)	Square drive screwdriver	1/4" hex insert, hex tip
Handle with 3/4" drive	Torx® tip	Plastic cartridge holder, red or black	12-point deep socket	Hinge handle	1/4" hex insert, Torx tip
Handle with 1" drive	Torx® Plus tip	Rail and clips	12-point socket	Speed handle	Slip-joint pliers
12-point hex (double-hex) in inches	Female Torx® hex	Metal tray	6-point deep socket	Sliding T handle	Long-nose pliers
12-point hex (double-hex) in millimeters	Torx® Tamper-Proof tip	Corrugated box	6-point socket	L handle	Tongue & groove pliers
6-point hex (hex) in inches	Torx® Plus Tamper-Proof tip	Pouch	6-point deep socket	Extension	Screwdriver handle for tips
6-point hex (hex) in millimeters	6-point truck socket	Soft case	6-point socket	Universal joint	Phillips tip screwdriver
12-point hex (double-hex)	8-point truck socket	Fractional socket, Type I (bolt end smaller)	6-point socket	Female adapter	Flat tip screwdriver
6-point hex (hex)	SUPER DRIVE	Fractional socket, Type II (straight)		Male adapter	
6-point hex (hex)	SUPER DRIVE	Fractional socket, Type III (drive end smaller)		Oxygen sensor socket	
Hex tip	RUBBER GRIP	Plastic handle		Sparkplug socket	

FEMALE SQUARE DRIVE ATTACHMENT METHODS FOR HAND SOCKETS

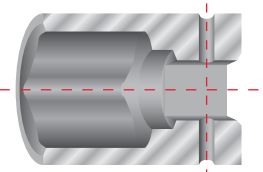
SLOTTED

This type of socket has an internal groove on the four faces of the socket's female drive end, so there are four possible ways to attach it to accessories that have a floating bearing on the male drive.



BOREHOLE

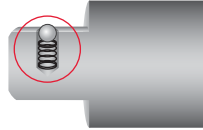
This type of socket has a borehole through the socket's female drive end, so there are two possible ways to attach it to accessories that have a floating bearing on the male drive.



MALE SQUARE DRIVE ATTACHMENT METHODS FOR HAND ACCESSORIES

SQUARE DRIVE WITH BEARING AND SPRING

The drive has a bearing that engages with the socket's drive end.



SQUARE DRIVE WITH BEARING AND SPRING

URREA manufactures its tools in accordance with product technical standards.

A product technical standard is a document that specifies design and manufacturing guidelines to ensure the adequate performance of products under the conditions required by users, and which is issued by organizations and associations of a particular character or government.

The only organization to issue international standards is known as ISO (International Organization for Fractionalization), which develops the ISO 9000 series regarding quality systems, but it also issues product technical standards. In the United States, various associations issue or have issued standards, such as GSA/US FEDERAL, ASME, ANSI and SAE, and in Europe, the DIN (DIN – Deutsches Institut für Normung e.V.), the German Institute for Fractionalization, groups different organizations and commissions dedicated to promoting standardization and quality in products marketed in Germany.

The Federal standards for hand tools are no longer being updated and are being taken over by ASME, and the same thing is occurring with standards that used to be issued by ANSI.

Currently, ASME standards for hand tools are initially reviewed by committees made up of different tool manufacturers, users and marketers, and subsequently approved and issued by ASME.

SAE standards (especially those applicable to the aerospace industry) are very strict, usually demanding tools with smaller dimensions and greater strength.

STANDARDS APPLICABLE TO HAND SOCKETS AND MANUAL ACCESSORIES



AS4283	"Handles and attachments for hand sockets wrenches"
AS954	"Wrenches, Hand, Twelve point, high strength, thin wall"
AS4984	"Coating requirements for aerospace hand tools"
AS478	"Identification marking methods"



ISO 1174-1	"Assembly tools for screws and nuts - Driving squares - Part 1: Driving squares for hand socket tools."
ISO 2236	"Assembly tools for screws and nuts - Forged and tubular socket wrenches, maximum outside head dimensions."
ISO 2725-1	"Assembly tools for screws and nuts - Square drive sockets - Part 1: Hand-operated sockets; Dimensions."
ISO 3315	"Assembly tools for screws and nuts - Driving parts for hand-operated square drive socket wrenches - Dimensions and tests."
ISO 3316	"Assembly tools for screws and nuts - Attachments for hand-operated square drive socket wrenches - Dimensions and tests."
ISO 11168	"Socket wrenches for spark- and glow-plugs."



B107.34M	"Sockets wrenches for spark plugs"
B107.1	"Sockets wrenches hand inch series"
B107.5M	"Sockets wrenches hand metric series"
B107.17M	"Gages, Wrench openings, reference"
B107.10M	"Handles and attachments for hand sockets wrenches- inch and metric"
B107.4	"Driving and spindle ends for portable hand, air and electric tools"



Deutsches Institut für Normung e.V.

DIN3122	"Driving parts for hand operated square drive sockets wrenches"
DIN3123	"Attachments for hand operated square hand sockets wrenches"
DIN3124	"Square drive sockets wrenches for hexagon bolts, hand-operated"
DIN7427	"Square drive sockets and hexagon drive extensions for hexagon insert"



GGG-W-641	Wrenches, socket; (And sockets, handles, and attachments for socket wrenches; hand).
GGG-B-001222	Bit screwdriver (And adaptor, screwdriver bit)

SPECIFICATIONS FOR DESIGNING AND MANUFACTURING HAND SOCKETS AND ACCESSORIES

One relevant aspect of compliance with ASME standard B 107.1 regarding hand sockets and accessories in inches, as well as ASME standard B107.5M regarding metric hand sockets, is marking, because it is through this process that a tool can be identified by the user, and supported and guaranteed by the manufacturer.

Hand sockets, handles, and accessories must be marked permanently with the name of the manufacturer or distributor. The brand and the country of origin must be marked permanently and legibly.

Furthermore, in Mexico, the FEDERAL METROLOGY AND STANDARDIZATION LAW states in articles 5 and 6:

Article 5. In the United States of Mexico, the legal and mandatory units of measurement are those in the General System of Measurement Units (DECIMAL METRIC SYSTEM).

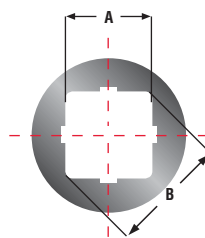
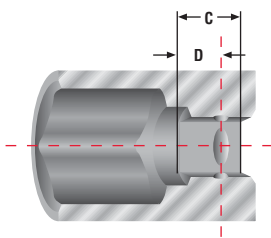
Article 6. As an exception, the Secretary may authorize the use of measurement units from other systems when foreign countries that have not adopted the same system are involved.

For this reason, URREA tools are marked using both the decimal metric system and the English system, since both systems of units are used internationally.

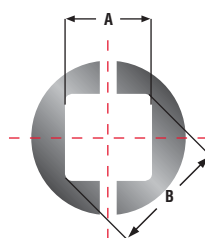
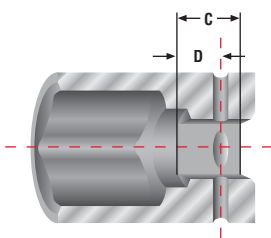
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SQUARE DRIVE DIMENSIONS, ASME B107.4

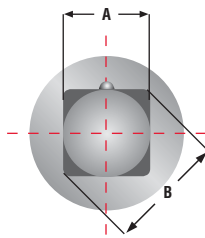
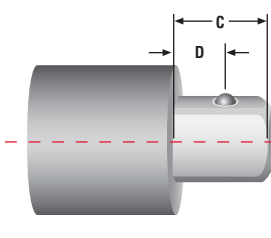
A hand socket is designed to fit on accessories and be used to apply torque. These elements are attached to each other using a standardized system. The dimensions of the male and female drives are the same for both hand and impact sockets, although this does not mean that they should be interchanged.



Grooved Female Square Drive							
Size	Between flats A		Between corners B	Depth C		Groove D	
	Max.	Min.	Min.	Min.	Max.	Min.	
1/4"	0.2603	0.2527	0.335	0.312	0.165	0.156	
3/8"	0.3853	0.3777	0.505	0.438	0.230	0.218	
1/2"	0.5113	0.5027	0.670	0.625	0.324	0.312	
3/4"	0.7613	0.7527	1.005	0.938	0.421	0.409	
1"	1.0125	1.0035	1.350	1.125	0.608	0.596	



Female Square Drive with Borehole							
Size	Between flats A		Between corners B	Depth C		Groove D	
	Max.	Min.	Min.	Min.	Max.	Min.	
1/4"	0.2603	0.2527	0.335	0.312	0.165	0.156	
3/8"	0.3853	0.3777	0.505	0.438	0.230	0.218	
1/2"	0.5113	0.5027	0.670	0.625	0.324	0.312	
3/4"	0.7613	0.7527	1.005	0.938	0.421	0.409	
1"	1.0125	1.0035	1.350	1.125	0.608	0.596	



Male Square Drive							
Size	Between flats A		Between corners B	Depth C		Bearing D	
	Max.	Min.	Min.	Max.	Min.	Max.	Min.
1/4"	0.252	0.2467	0.330	0.312	0.265	0.165	0.156
3/8"	0.377	0.3717	0.500	0.438	0.406	0.230	0.218
1/2"	0.502	0.4967	0.663	0.625	0.531	0.324	0.312
3/4"	0.752	0.2467	1.000	0.938	0.750	0.421	0.409
1"	1.002	0.9965	1.340	1.125	1.000	0.608	0.596

LENGTH SPECIFICATIONS PER ASME STANDARDS B107.1, B107.5M

There also standards for lengths: a socket may not be longer than specified unless it is a deep socket, and deep sockets must comply with a minimum length.

1/4" drive	Hand socket Maximum length	Deep hand socket Maximum length
Hex, 1/8" to 1/2"	1.010	1.930

3/8" drive	Hand socket Maximum length	Deep hand socket Maximum length
Hex, 1/4" a 1/2"	1.260	1.750
Hex, 9/16"	1.260	1.750
Hex, 5/8"	1.260	2.000
Hex, 11/16" a 3/4"	1.260	2.125
Hex, 13/16" a 7/8"	1.406	2.500

1/2" drive	Hand socket Maximum length	Deep hand socket Maximum length
Hex, 3/8" a 1/2"	1.510	3.000
Hex, 9/16" a 3/4"	1.572	3.000
Hex, 13/16"	1.635	3.000
Hex, 7/8" a 1"	1.760	3.000
Hex, 1 1/16"	1.865	3.000
Hex, 1 1/8" a 1 3/16"	1.947	3.000
Hex, 1 1/4"	2.015	3.000

3/4" drive	Hand socket Maximum length
Hex, 1"	2.072
Hex, 1 1/16"	2.135
Hex, 1 1/8"	2.322
Hex, 1 3/16"	2.332
Hex, 1 1/4"	2.365
Hex, 1 5/16"	2.510
Hex, 1 3/8"	2.635
Hex, 1 7/16"	2.635
Hex, 1 1/2"	2.635
Hex, 1 9/16"	2.760
Hex, 1 5/8"	2.760
Hex, 1 11/16"	3.135
Hex, 1 3/4"	3.135
Hex, 1 13/16"	3.260
Hex, 1 7/8"	3.385
Hex, 2"	3.510
Hex, 2 1/16"	3.697
Hex, 2 1/8"	3.697
Hex, 2 3/16"	3.760
Hex, 2 1/4"	3.885
Hex, 2 5/16"	3.947
Hex, 2 3/8"	4.010

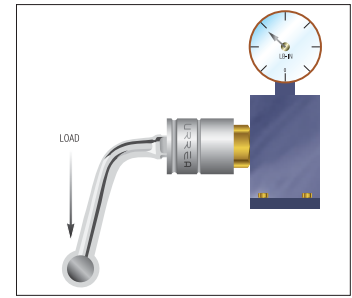
1" drive	Hand socket Maximum length
Hex, 1 1/16"	3.010
Hex, 1 1/28"	3.010
Hex, 1 3/16"	3.010
Hex, 1 1/4"	3.010
Hex, 1 5/16"	3.010
Hex, 1 3/8"	3.010
Hex, 1 7/16"	3.010
Hex, 1 1/2"	3.072
Hex, 1 9/16"	3.135
Hex, 1 5/8"	3.260
Hex, 1 1/16"	3.260
Hex, 1 3/4"	3.260
Hex, 1 13/16"	3.385
Hex, 1 7/8"	3.385
Hex, 2"	3.510
Hex, 2 1/16"	3.510
Hex, 2 1/8"	3.635
Hex, 2 3/16"	3.760
Hex, 2 1/4"	3.885
Hex, 2 5/16"	3.947
Hex, 2 3/8"	4.010
Hex, 2 7/16"	4.135
Hex, 2 1/2"	4.385
Hex, 2 9/16"	4.447
Hex, 2 5/8"	4.635
Hex, 2 3/4"	4.885
Hex, 2 13/16"	4.885
Hex, 2 15/16"	4.885
Hex, 3"	5.010
Hex, 3 1/8"	5.010
Hex, 3 1/4"	5.010
Hex, 3 3/8"	5.010
Hex, 3 1/2"	5.010
Hex, 3 3/4"	5.010
Hex, 3 1/2"	5.510
Hex, 3 7/8"	5.510
Hex, 4"	6.010
Hex, 4 1/8"	6.010
Hex, 4 1/4"	6.010
Hex, 4 1/2"	6.010

TABLE FOR SELECTING DRIVES DEPENDING ON THE LOAD TO BE APPLIED AND THE TOOL TO BE USED

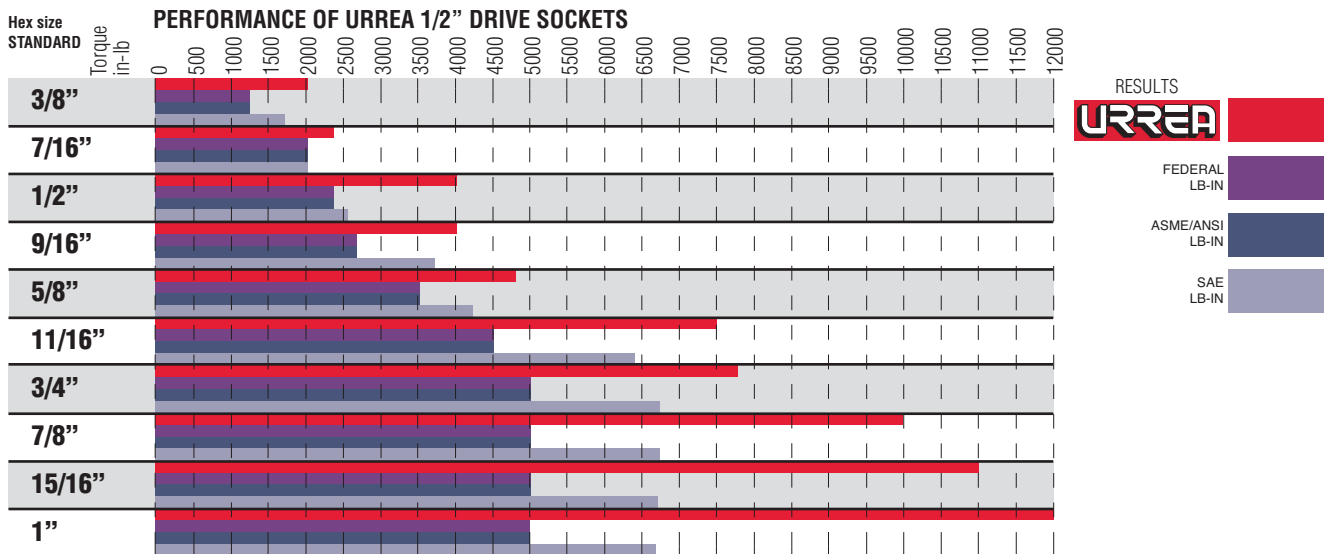
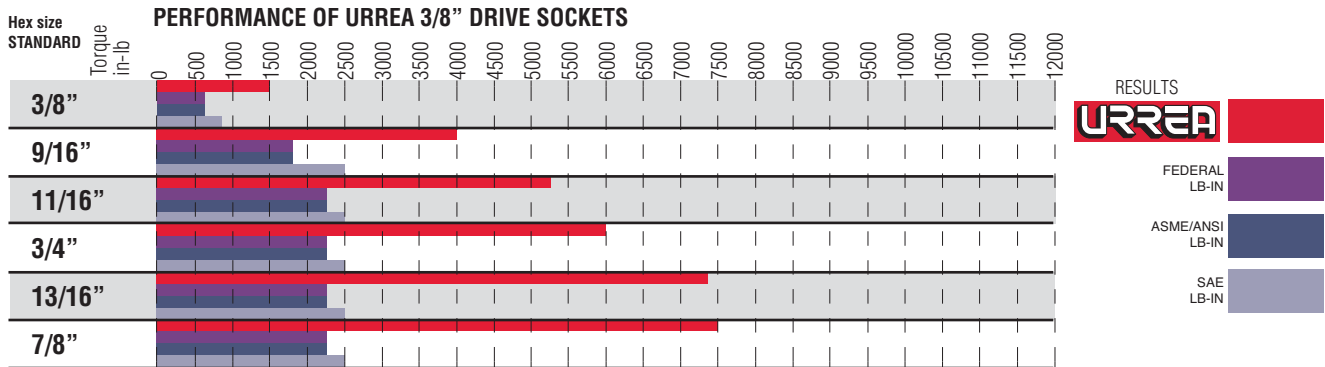
DRIVE	RATCHET HANDLE		HINGE HANDLE		EXTENSIONS		SLIDING BAR		SPEED HANDLE	
	Foot-pounds	Inch-pounds	Foot-pounds	Inch-pounds	Foot-pounds	Inch-pounds	Foot-pounds	Inch-pounds	Foot-pounds	Inch-pounds
1/4"	38	450	33	400	42	500	33	400	N/A	N/A
3/8"	150	1800	100	1200	100	1200	83	1000	40	475
1/2"	375	4500	333	4000	292	3500	208	2500	58	700
3/4"	1000	12000	750	9000	750	9000	750	9000	N/A	N/A
1"	1833	22000	1250	15000	1250	15000	1250	15000	N/A	N/A

Sockets are subjected to a torsion force applied through a chuck. A socket is considered to have failed if cracks or deformations appear in its original structure or if it will not attach to the test gauges. The load must be applied by a device that produces uniform torque.

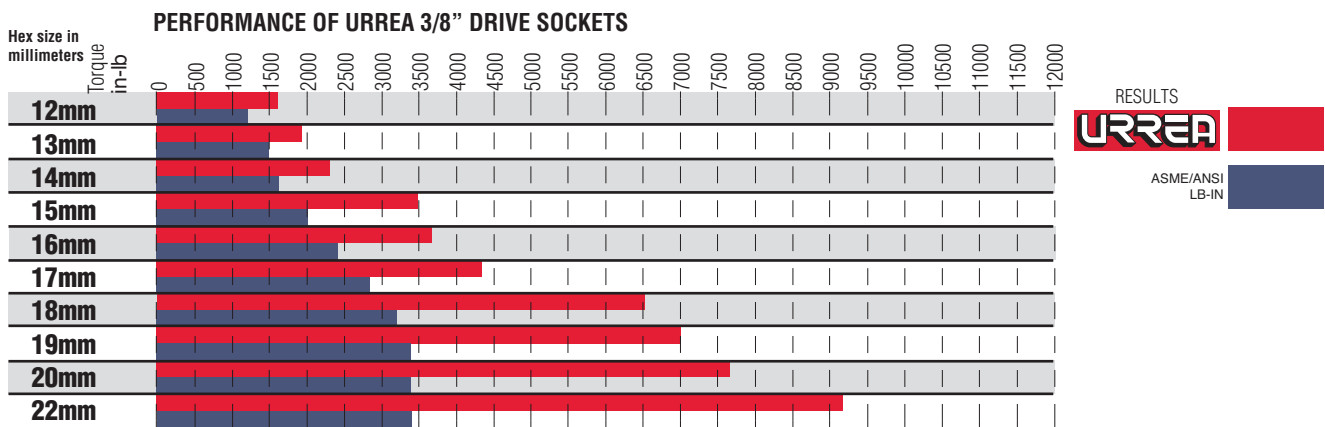
LOAD TEST CHUCK

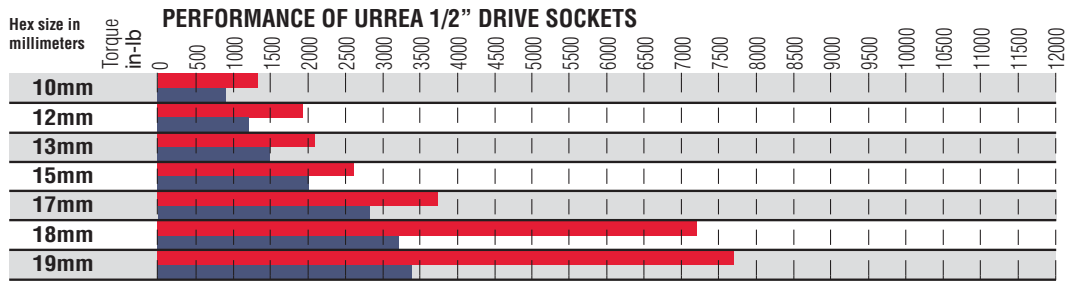


LOAD TEST, ASME STANDARD B107.1 (STANDARD FOR SOCKETS IN FRACTIONAL SIZES)



LOAD TEST PER ASME STANDARD B107.5M (STANDARD FOR METRIC SOCKETS)





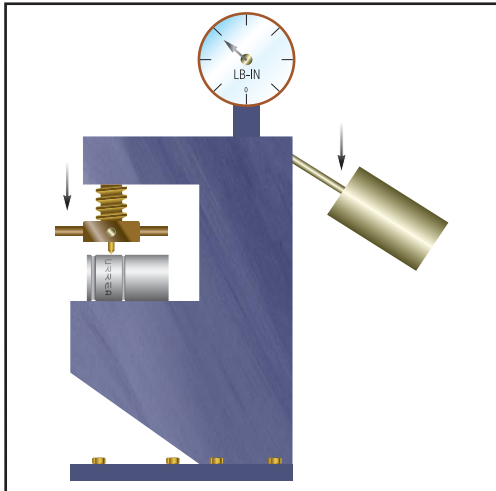
RESULTS

ASME/ANSI
LB-IN

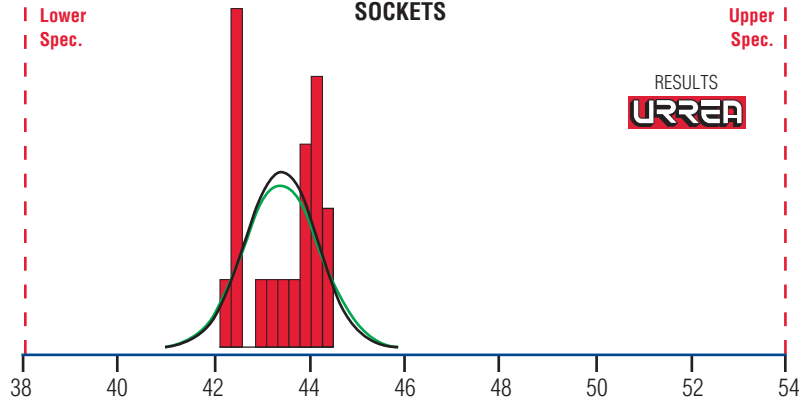
HARDNESS TEST PER ASME STANDARDS B107.1 AND B107.5M

After heat-treatment, sockets must have a hardness between 38 and 54 HRC (Rockwell C). To verify this, a Rockwell hardness tester is used, which has a diamond point to which a 150-kg load is applied (ASME 18). The results of the test depend directly on penetration of the diamond point into the item tested. When it is necessary to prepare the test surface, the amount of material removed may not exceed 0.007" for sockets with 1/4", 3/8", and 1/2" drives, 0.015" for sockets with 3/4" drives, and 0.010" per inch of outer diameter for sockets with 1" drives.

PRESS FOR HARDNESS TEST



STATISTICAL TEST OF HARDNESS READINGS OBTAINED FOR URREA HAND SOCKETS



Hardness readings obtained for Urrea sockets. Hardness required according to the standard:
 Minimum 38 HRC (hardness on Rockwell "C" scale)
 Minimum 54 HRC (hardness on Rockwell "C" scale)

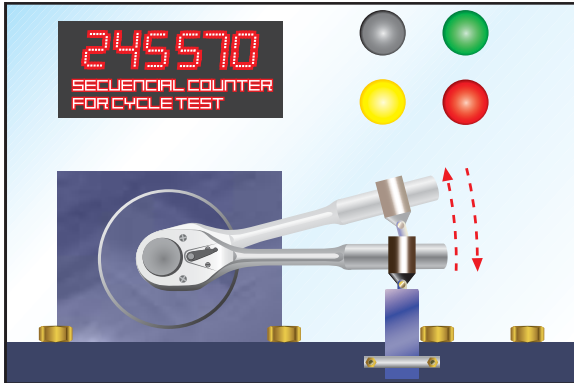
CYCLE TEST FOR RATCHET HANDLES, SAE STANDARD AS4283

The ratchet mechanism must withstand a 50,000-cycle test, with torque applied in each cycle depending on the size of the drive and handle. The test speed may not exceed 30 cycles per minute. The ratchet must advance 1-3 teeth in each cycle. After the test, there may not be any failure of the mechanism, loss of screws, or damage to any other part of the ratchet.

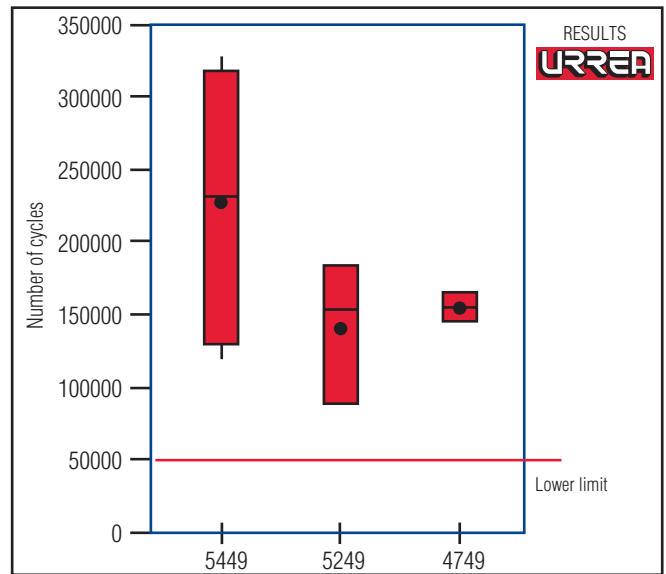
After the cycle test, the ratchet handle must be load-tested, with torque values depending on the size of the drive and handle. After the load test, the reversing mechanism must be operated 12 times with no damage or any other evidence of malfunction. In addition, reversible ratchet handles undergo a free-fall test, which consists of dropping the item 20 times from a height of 2 meters and letting it land on concrete, then confirming that the assembly has not been damaged.

SQUARE DRIVE	CYCLE TEST TORQUE IN-LB	LOAD TEST TORQUE IN-LB
1 / 4"	100	5500
3 / 8"	500	2000
1 / 2"	900	5000
3 / 4"	NE	14000
1"	NE	NE

CYCLE TEST



URREA RATCHET HANDLE CYCLE TEST RESULTS

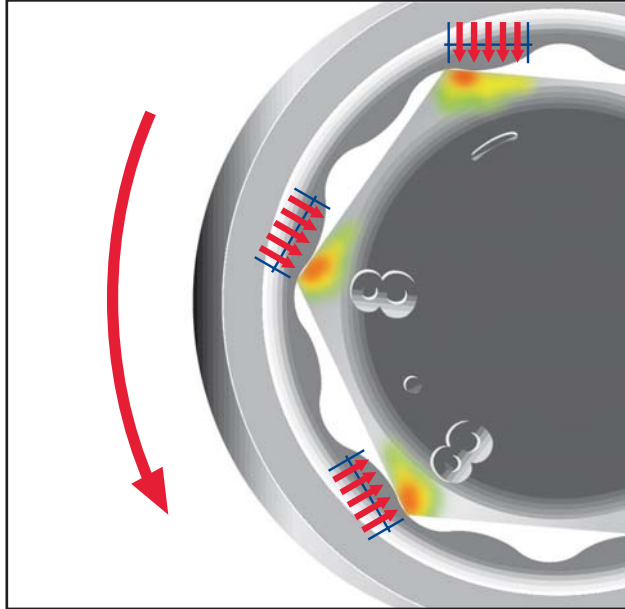


ADVANTAGES OF THE DESIGN *SUPER DRIVE*

URREA sockets, which are made in accordance with the specifications of SAE standard AS954, incorporate this design into their size Hex, providing better tools that place less stress on screw heads and nuts while letting you apply more force without damaging fasteners. This SUPER DRIVE technology is incorporated into our sockets as well as our wrenches. Due to its design, it makes work easier by providing the following benefits:

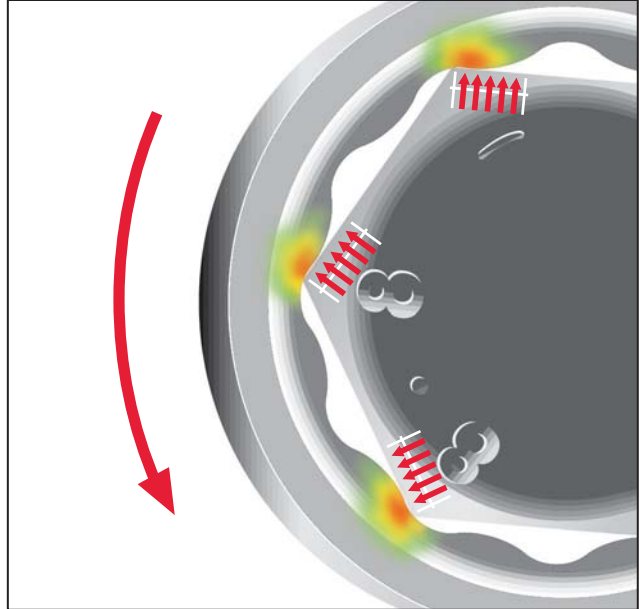
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EFFECT ON THE NUT OR BOLT HEAD



- When torque is applied, stress is distributed over a larger area of the nut's active faces, more toward the center instead of the corners. The vertices of the grooves disappear and the force is distributed all along the rounded or "lobed" corners. These features comply with standard AS954 (SAE) and provide a greater area of contact, requiring less effort to get the same amount of torque.
- Contact approximately 0.045" long on an active face of the nut or bolt.
- The force applied is not concentrated on the edges, which are potential failure points, but is instead distributed uniformly over the entire head of the nut or bolt.

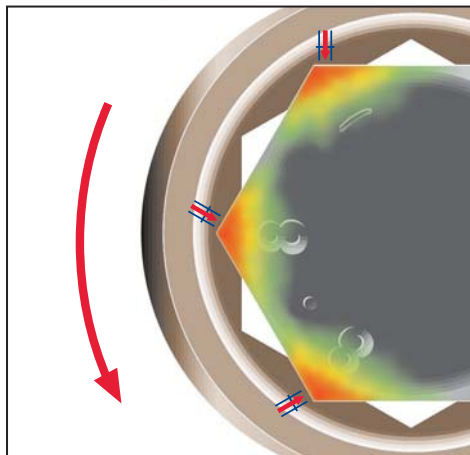
EFFECT ON THE SOCKET



- It is possible to reduce the outside diameter of the socket mouth, which increases its ability to apply torque without failing and permits access to narrow spaces.
- The socket size opening is easier to fit onto a nut or bolt.
- Lets you turn nuts and bolts that are distorted or have deformed edges.
- Minimizes accident risks by preventing stripped nuts or bolts.
- Permits the use of greater torque on low-hardness bolts.
- Will not deform nuts or bolts.

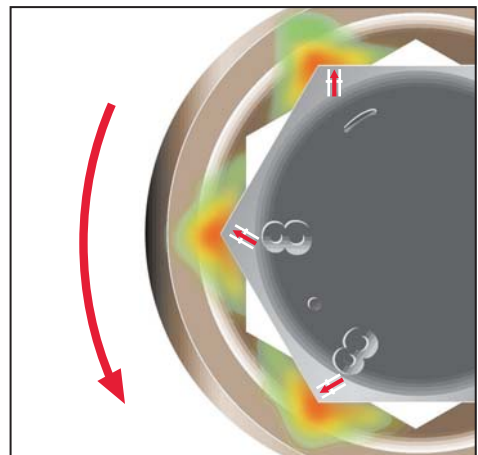
DISADVANTAGES OF THE CONVENTIONAL DESIGN

EFFECT ON THE NUT OR BOLT HEAD



- Contact only about 0.005" long on an active face of the nut or bolt.
- When torque is applied, the stress is concentrated mainly on the corners of the nut, which causes the corners to become rounded or stripped.
- Corners are potential failure points where fractures due to concentration of stress tend to occur.

EFFECT ON THE SOCKET



PROCESS A
HOT FORGING



1A. Receiving raw steel



2A. Cutting the steel



3A. Hot forging

PROCESS B
COLD FORGING



1B. Receiving raw material



2B and 3B. Cold forging



4. Machining



5. Grinding



6. Marking



7. Tempering



8. Polishing



9. Chromium coating



1. Receiving the materials



2. Cutting the steel



3. Hot forging

3



4. Deburring



5. Machining



6. Grinding



7. Body polishing



8. Marking



9. Burnishing



10. Heat-treatment



11. Cleaning



12. Full polish finish



13. Chromium coating



14. Assembly

HAND SOCKETS IN FRACTIONAL SIZES

HEX SIZE	DRIVE SIZE														
	1/4"			3/8"				1/2"				3/4"		1"	
	12	6	6	12	6	12	6	12	6	12	6	12	6	6	12
	47XXT	47XX	47XXL	52XX	52XXH	50XX	50XXH	54XX	54XXH	53XX	53XXH	55XX	55XXH	55XXHL	57XX
	119	119	120	138	138	139	139	165	165	166	166	179	179	180	188
5/32"	●	●	●												
3/16"	●	●	●												
7/32"	●	●	●												
1/4"	●	●	●	●	●	●	●	●	●						
9/32"	●	●	●	●	●	●	●	●	●						
5/16"	●	●	●	●	●	●	●	●	●						
11/32"	●	●	●	●	●	●	●	●	●						
3/8"	●	●	●	●	●	●	●	●	●	●	●				
7/16"	●	●	●	●	●	●	●	●	●	●	●				
1/2"	●	●	●	●	●	●	●	●	●	●	●	●			
17/32"				●	●	●	●	●	●	●	●	●			
9/16"	●	●	●	●	●	●	●	●	●	●	●	●			
19/32"				●	●	●	●	●	●	●	●	●			
5/8"				●	●	●	●	●	●	●	●	●			
11/16"				●	●	●	●	●	●	●	●	●			
3/4"				●	●	●	●	●	●	●	●	●	●		
25/32"				●	●	●	●	●	●	●	●	●	●		
13/16"				●	●	●	●	●	●	●	●	●	●		
7/8"				●	●	●	●	●	●	●	●	●	●	●	
29/32"				●	●	●	●	●	●	●	●	●	●	●	●
15/16"				●	●	●	●	●	●	●	●	●	●	●	●
31/32"				●	●	●	●	●	●	●	●	●	●	●	●
1"				●	●	●	●	●	●	●	●	●	●	●	●
1 1/16"								●	●	●	●	●	●	●	●
1 1/8"								●	●	●	●	●	●	●	●
1 3/16"								●	●	●	●	●	●	●	●
1 1/4"								●	●	●	●	●	●	●	●
1 5/16"								●	●	●	●	●	●	●	●
1 3/8"								●	●	●	●	●	●	●	●
1 7/16"								●	●	●	●	●	●	●	●
1 1/2"								●	●	●	●	●	●	●	●
1 9/16"								●	●	●	●	●	●	●	●
1 5/8"								●	●	●	●	●	●	●	●
1 11/16"								●	●	●	●	●	●	●	●
1 3/4"								●	●	●	●	●	●	●	●
1 13/16"								●	●	●	●	●	●	●	●
1 7/8"								●	●	●	●	●	●	●	●
2"								●	●	●	●	●	●	●	●
2 1/16"								●	●	●	●	●	●	●	●
2 1/8"								●	●	●	●	●	●	●	●
2 3/16"								●	●	●	●	●	●	●	●
2 1/4"								●	●	●	●	●	●	●	●
2 5/16"								●	●	●	●	●	●	●	●
2 3/8"								●	●	●	●	●	●	●	●
2 1/2"								●	●	●	●	●	●	●	●
2 9/16"								●	●	●	●	●	●	●	●
2 5/8"								●	●	●	●	●	●	●	●
2 3/4"								●	●	●	●	●	●	●	●
2 15/16"								●	●	●	●	●	●	●	●
3"								●	●	●	●	●	●	●	●
3 1/8"								●	●	●	●	●	●	●	●
3 1/2"								●	●	●	●	●	●	●	●

HAND SOCKET ACCESSORIES

Hand socket accessories are shown in various drive sizes and configurations:

- Top Row:** Ratchet with sockets in 1/4", 3/8", 1/2", 3/4", and 1" drive sizes. Part numbers: 116, 133, 158, 175, 186.
- Second Row:** Ratchet with sockets in 1/4", 3/8", 1/2", and 3/4" drive sizes. Part numbers: 117, 135, 161, 176.
- Third Row:** Ratchet with sockets in 3/8" and 1/2" drive sizes. Part numbers: 135, 162.
- Fourth Row:** Ratchet with sockets in 1/4", 3/8", 1/2", 3/4", and 1" drive sizes. Part numbers: 117, 135, 162, 176, 186.
- Fifth Row:** Ratchet with sockets in 1/2", 3/4", and 1" drive sizes. Part numbers: 162, 177, 186.
- Sixth Row:** Ratchet with sockets in 3/8" and 1/2" drive sizes. Part numbers: 136, 163.
- Seventh Row:** Ratchet with sockets in 3/8" drive size. Part number: 136.
- Eighth Row:** Ratchet with sockets in 1/4", 3/8", 1/2", 3/4", and 1" drive sizes. Part numbers: 118, 136, 163, 178, 187.
- Ninth Row:** Ratchet with sockets in 1/4", 3/8", 1/2", 3/4", and 1" drive sizes. Part numbers: 118, 136, 163, 178, 187.
- Tenth Row:** Ratchet with sockets in 1/4", 3/8", 1/2", 3/4", and 1" drive sizes. Part numbers: 118, 137, 164, 178, 187.

METRIC HAND SOCKETS

mm	DRIVE SIZE												
	1/4"		3/8"		1/2"		3/4"		1"				
	6	6	12	6	12	6	12	6	12	6	12	12	
mm	47XXM	47XXLM	52XXM	52XXHM	50XXM	50XXHM	54XXM	54XXHM	53XXM	53XXHM	55XXM	55XXHM	57XXM
HEX SIZE	120	121	140	140	141	141	167	167	168	168	181	182	188
4 mm	●	●											
4.5 mm	●	●											
5 mm	●	●											
5.5 mm	●	●											
6 mm	●	●	●	●		●							
7 mm	●	●	●	●		●							
8 mm	●	●	●	●	●	●	●	●					
9 mm	●	●	●	●	●	●	●	●					
10 mm	●	●	●	●	●	●	●	●	●	●			
11 mm	●	●	●	●	●	●	●	●	●	●			
12 mm	●	●	●	●	●	●	●	●	●	●			
13 mm	●	●	●	●	●	●	●	●	●	●			
14 mm	●	●	●	●	●	●	●	●	●	●			
15 mm		●	●	●	●	●	●	●	●	●			
16 mm			●	●	●	●	●	●	●	●			
17 mm			●	●	●	●	●	●	●	●			
18 mm			●	●	●	●	●	●	●	●			
19 mm			●	●	●	●	●	●	●	●	●		
20 mm			●	●	●	●	●	●	●	●	●	●	
21 mm			●	●	●	●	●	●	●	●	●	●	
22 mm			●	●	●	●	●	●	●	●	●	●	
23 mm			●	●	●	●	●	●	●	●	●	●	
24 mm			●	●	●	●	●	●	●	●	●	●	
25 mm			●	●	●	●	●	●	●	●	●	●	
26 mm			●	●			●	●	●	●	●	●	
27 mm							●	●	●	●	●	●	
28 mm							●	●	●	●	●	●	
29 mm							●	●	●	●	●	●	
30 mm							●	●	●	●	●	●	
31 mm							●	●	●	●	●	●	
32 mm							●	●	●	●	●	●	
33 mm							●	●	●	●	●	●	
34 mm							●	●	●	●	●	●	
35 mm								●	●	●	●	●	
36 mm							●	●			●	●	●
38 mm								●	●	●	●	●	
40 mm								●	●	●	●	●	
41 mm								●	●	●	●	●	
42 mm								●	●	●	●	●	
44 mm								●	●	●	●	●	
46 mm								●	●	●	●	●	
50 mm								●	●	●	●	●	
54 mm								●	●	●	●	●	
55 mm								●	●	●	●	●	
58 mm								●	●	●	●	●	
60 mm								●	●	●	●	●	
65 mm								●	●	●	●	●	
70 mm								●	●	●	●	●	
75 mm								●	●	●	●	●	

HAND SOCKETS WITH TIPS

mm	DRIVE SIZE					
	3/8"		1/2"		1/2"	
	6	12	6	12	6	12
mm	4990-X/X	4990-XM	5239XXW	5441-X/X	5441-XM	5439XXW
HEX SIZE	143	143	143	169	169	169
1/8"	●					
5/32"	●					
3/16"	●					
7/32"	●					
1/4"	●					
5/16"	●			●		
3/8"	●			●		
7/16"				●		
1/2"				●		
9/16"				●		
5/8"				●		
4mm		●				
5mm		●				
6mm		●				
7mm		●				
8mm		●				
10mm		●				
12mm						
14mm						
17mm						
T10			●			
T15			●			
T20			●			
T25			●			
T27			●			
T30			●			
T40			●			
T45			●			
T50			●			
T55			●			



1/4", 3/8" AND 1/2" COMBINATION SOCKET SETS

1/4"

3/8"

CODE	DESCRIPTION	1/4"					3/8"		
		T05	T04	T06	T06	T44	T04	T05	T05
4706	3/16"								
4707	7/32"								
4708	1/4"								
4709	9/32"								
4710	5/16"								
4711	11/32"								
4712	3/8"								
4714	7/16"								
4716	1/2"								
4704M	4 MM								
4705M	5 MM								
4706M	6 MM								
4707M	7 MM								
4708M	8 MM								
4709M	9 MM								
4710M	10 MM								
4711M	11 MM								
4712M	12 MM								
4713M	13 MM								
4710L	5/16"								
4711L	11/32"								
4712L	3/8"								
4714L	7/16"								
4716L	1/2"								
4705T	5/32"								
4706T	3/16"								
4707T	7/32"								
4708T	1/4"								
4709T	9/32"								
4710T	5/16"								
4711T	11/32"								
4712T	3/8"								
4714T	7/16"								
4716T	1/2"								
4749	1/4" X 5"								
4752A	1/4" X 5"								
4760	1/4" X 3"								
4761	1/4" X 6"								
4763	1/4" X 14"								
4769	1/4" X 7"								
4768	1/4" X 5 3/4"								
4770	1/4" X 1 5/16"								
4771	1/4"								
4785	1/4" X 4 1/2"								
5208	1/4"								
5210	5/16"								
5212	3/8"								
5214	7/16"								
5216	1/2"								
5218	9/16"								
5220	5/8"								
5222	11/16"								
5224	3/4"								
5226	13/16"								
5228	7/8"								
5230	15/16"								
5209M	9 mm								
5210M	10 mm								
5211M	11 mm								
5212M	12 mm								
5213M	13 mm								
5214M	14 mm								
5215M	15 mm								
5217M	17 mm								
5219M	19 mm								
5212H	3/8"								
5214H	7/16"								
5216H	1/2"								
5218H	9/16"								
5220H	5/8"								
5222H	11/16"								
5224H	3/4"								
5226H	13/16"								
5228H	7/8"								
5230H	15/16"								
5232H	1"								
5210HM	10 mm								
5211HM	11 mm								
5212HM	12 mm								
5213HM	13 mm								
5214HM	14 mm								
5215HM	15 mm								
5217HM	17 mm								
5218HM	18 mm								
5219HM	19 mm								
502050	5/8"								
5026HPA	13/16"								

Continued...

1/2"

CODE	DESCRIPTION	1/2"				
		T05	T04	T06	T06	T04
5249	3/8" X 7"					
5252A	3/8" X 7"					
5260	3/8" X 3"					
526006	3/8" X 6"					
5261	3/8" X 8"					
5262	3/8" X 12"					
5265	3/8" X 7 13/16"					
5270	3/8" X 1 15/16"					
5253	3/8" H X 1/2" M					
5254	1/2" H X 3/8" M					
5255	3/8" H X 1/4" M					
5256	1/4" H X 3/8" M					
5285	3/8" X 8"					
5412	3/8"					
5414	7/16"					
5416	1/2"					
5418	9/16"					
5419	19/32"					
5420	5/8"					
5422	11/16"					
5424	3/4"					
5426	13/16"					
5428	7/8"					
5430	15/16"					
5432	1"					
5434	1 1/16"					
5436	1 1/8"					
5438	1 3/16"					
5440	1 1/4"					
5412H	3/8"					
5414H	7/16"					
5416H	1/2"					
5418H	9/16"					
5420H	5/8"					
5422H	11/16"					
5424H	3/4"					
5426H	13/16"					
5428H	7/8"					
5430H	15/16"					
5432H	1"					
5410M	10 mm					
5411M	11 mm					
5412M	12 mm					
5413M	13 mm					
5414M	14 mm					
5415M	15 mm					
5417M	17 mm					
5419M	19 mm					
5421M	21 mm					
5423M	23 mm					
5424M	24 mm					
5427M	27 mm					
5430M	30 mm					
5326HPA	13/16"					
5449	1/2" X 10 1/8"					
5452A	1/2" X 10 1/8"					
544952N	Double drive 1/2" and 3/8" x 10 1/8"					
5461	1/2" X 5"					
5463	1/2" X 10"					
5468	1/2" X 17 7/8"					
5470	1/2" X 2 5/18"					
5485	12 15/16"					
9300MS	1/4" X 7 7/8"					
20004	No. 1					
20006	No. 1					
20008	No. 2					
20012	No. 3					
22004	6F-8R					
22008	8F-10R					
22012	10F-12R					
23016	T15					
23020	T20					
23024	T27					

COMBINATION SOCKET SETS WITH TORX AND HEX TIPS, 1/4", 3/8" AND 1/2" DRIVES

CODE	DESCRIPTION	DRIVE								
		1/4"	3/8"	1/2"	475254W	475254T	4752T	4752TH	4752W	4752E
	T10	●								
	T15	●								
	T20	●								
	T25	●								
	T27	●								
	T30	●								
523940W	T40	●	●							
523945W	T45	●	●							
	T47	●								
523950W	T50	●	●							
	T55	●								
	T60	●								
	T60	●								
	T10	●								
	T15	●								
543920W	T20	●	●							
543925W	T25	●	●							
543927W	T27	●	●							
543930W	T30	●	●							
543940W	T40	●	●							
543945W	T45	●	●							
543947W	T47	●	●							
543950W	T50	●	●							
543955W	T55	●	●							
	E6									●
	E7									●
	E8									●
	E10									●
	E12									●
	E14									●
	E16									●
49907M	7MM	●								●
49908M	8MM	●								●
499010M	10MM	●								●

If the product code does not appear, the product is not available for individual sale.

quality starts with U

3






URREA Professional Tools received the ISO 9000 certification in November 1998 and updated to ISO 9001:2000 certification in February 2004. This certification represents our constant commitment to maintain our operating and product manufacturing standards.



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1/4" SOCKET SETS

1/4" 6 12

CODE	DESCRIPTION																							
		47104	47106	47204	4700	47102	4700L	47207	47202	4700LM	4700A	4700CM	47111	47110	47116	4700CA	47112	4700C	47206	47205	47208	4700M	4700PM	4700P
		111	112	113	113	113	115	115	115	109	110	110	110	111	111	112	112	114	114	114	115	109	109	
4706	3/16"		●	●						●					●	●	●							
4707	7/32"		●	●						●	●				●	●	●							
4708	1/4"			●											●	●	●							
4709	9/32"		●	●	●										●	●	●							
4710	5/16"		●	●	●	●									●	●	●							
4711	11/32"		●	●	●	●									●	●	●							
4712	3/8"		●	●	●	●									●	●	●							
4714	7/16"		●	●	●	●									●	●	●							
4716	1/2"		●	●	●	●									●	●	●							
4718	9/16"		●												●									
4704M	4 mm						●			●	●							●		●			●	
47045M	4.5 mm																	●		●			●	
4705M	5 mm							●		●	●							●		●			●	
47055M	5.5 mm																	●		●			●	
4706M	6 mm							●		●	●							●		●			●	●
4707M	7 mm									●	●							●		●			●	
4708M	8 mm									●	●							●		●			●	
4709M	9 mm									●	●							●		●			●	
4710M	10 mm									●	●							●		●			●	●
4711M	11 mm									●	●							●		●			●	
4712M	12 mm									●	●							●		●			●	
4713M	13 mm									●	●							●		●			●	
4714M	14 mm									●	●							●		●			●	●
4706L	3/16"														●									
4707L	7/32"														●									
4708L	1/4"					●	●			●	●				●	●								
4709L	9/32"					●	●			●	●				●	●								
4710L	5/16"					●	●	●		●	●				●	●								
4711L	11/32"					●	●	●		●	●				●	●								
4712L	3/8"					●	●	●		●	●				●	●								
4714L	7/16"					●	●	●		●	●				●	●								
4716L	1/2"					●	●	●		●	●				●	●								
4718L	9/16"					●				●					●									
4704LM	4 mm									●	●							●		●			●	
4705LM	5 mm																	●		●			●	
47055LM	5.5 mm																	●		●			●	
4706LM	6 mm									●	●							●		●			●	●
4707LM	7 mm									●	●							●		●			●	
4708LM	8 mm									●	●							●		●			●	
4709LM	9 mm									●	●							●		●			●	
4710LM	10 mm									●	●							●		●			●	●
4711LM	11 mm									●	●							●		●			●	
4712LM	12 mm									●	●							●		●			●	
4713LM	13 mm									●	●							●		●			●	
4714LM	14 mm									●	●							●		●			●	●
4715LM	15 mm									●								●					●	
4705T	5/32"											●												●
4706T	3/16"	●										●	●											●
4707T	7/32"	●	●									●	●											●
4708T	1/4"	●	●									●	●											●
4709T	9/32"	●	●									●	●											●
4710T	5/16"	●	●									●	●											●
4711T	11/32"	●	●									●	●											●
4712T	3/8"	●	●									●	●											●
4714T	7/16"	●	●									●	●											●
4716T	1/2"	●	●									●	●											●
4718T	9/16"	●										●												●
4749	1/4" X 5"										●	●			●	●		●		●			●	●
4752A	1/4" X 5"									●					●	●		●		●			●	●
4760	1/4" X 3"									●	●				●	●		●		●			●	●
4761	1/4" X 6"									●	●				●	●		●		●			●	●
4766	1/4" X 5 13/16"														●	●		●		●			●	●
4769	1/4" X 7"				●							●	●		●	●		●		●			●	●
4770	1/4" X 1 5/16"											●	●		●	●		●		●			●	●
4785	1/4" X 5 3/4"											●	●		●	●		●		●			●	●

3/8" SOCKET SETS IN FRACTIONAL SIZES

3

CODE	DESCRIPTION																
		52124	52118	52126	52122	S02HS	52112	52107	52114	52111	5003B	52136	5200AC	52130	5200CL	52134	52128
		123	124	126	126	126	127	127	127	122	122	123	123	125	125	126	124
5008H	1/4"																
5010H	5/16"																
5012H	3/8"																
5014H	7/16"																
5016H	1/2"																
5018H	9/16"																
5020H	5/8"																
5022H	11/16"																
5024H	3/4"																
5026H	13/16"																
5028H	7/8"																
5030H	15/16"																
5032H	1"																
5008	1/4"																
5010	5/16"																
5012	3/8"																
5014	7/16"																
5016	1/2"																
5018	9/16"																
5020	5/8"																
5022	11/16"																
5024	3/4"																
5026	13/16"																
5028	7/8"																
5030	15/16"																
5032	1"																
5208	1/4"																
5210	5/16"																
5211	11/32"																
5212	3/8"																
5214	7/16"																
5216	1/2"																
5217	17/32"																
5218	9/16"																
5219	19/32"																
5220	5/8"																
5222	11/16"																
5224	3/4"																
5225	25/32"																
5226	13/16"																
5228	7/8"																
5230	15/16"																
5232	1"																
5208H	1/4"																
5210H	5/16"																
5212H	3/8"																
5214H	7/16"																
5216H	1/2"																
5218H	9/16"																
5220H	5/8"																
5222H	11/16"																
5224H	3/4"																
5226H	13/16"																
5228H	7/8"																
5230H	15/16"																
5232H	1"																
502050	5/8"																
5026HPA	13/16"																
5249	3/8" X 7"																
5252A	3/8" X 7"																
5260	3/8" X 3"																
526006	3/8" X 6"																
5261	3/8" X 8"																
5262	3/8" X 12"																
5265	3/8" X 7 13/16"																
5270	3/8" X 1 15/16"																
5280	3/8" X 6"																
1214	7/16"																
1216	1/2"																
1218	9/16"																
1220	5/8"																
1224	3/4"																
9604	1/4" X 4"																
9684	No.2 1/4" X 4 1/4"																
226G	6 3/4"																
276	6"																

QUICK SELECTION GUIDE FOR HAND SOCKET SETS



1/2" SOCKET SETS IN FRACTIONAL SIZES



CODE	DESCRIPTION	1/2" (146-150)								1/2" (144-149)								1/2" (145-150)							
		146	147	148	149	150	146	147	148	149	150	144	145	146	147	148	149	150	145	146	147	148	150		
5316	1/2"																								
5318	9/16"																								
5320	5/8"																								
5322	11/16"																								
5324	3/4"																								
5326	13/16"																								
5328	7/8"																								
5330	15/16"																								
5332	1"																								
5334	1 1/16"																								
5336	1 1/8"																								
5340	1 1/4"																								
5312H	3/8"																								
5314H	7/16"																								
5316H	1/2"																								
5318H	9/16"																								
5320H	5/8"																								
5322H	11/16"																								
5324H	3/4"																								
5326H	13/16"																								
5328H	7/8"																								
5330H	15/16"																								
5332H	1"																								
5334H	1 1/16"																								
5336H	1 1/8"																								
5340H	1 1/4"																								
5408	1/4"																								
5410	5/16"																								
5412	3/8"																								
5414	7/16"																								
5416	1/2"																								
5417	17/32"																								
5418	9/16"																								
5419	19/32"																								
5420	5/8"																								
5422	11/16"																								
5424	3/4"																								
5425	25/32"																								
5426	13/16"																								
5428	7/8"																								
5429	29/32"																								
5430	15/16"																								
5431	31/32"																								
5432	1"																								
5434	1 1/16"																								
5436	1 1/8"																								
5438	1 3/16"																								
5440	1 1/4"																								
5408H	1/4"																								
5410H	5/16"																								
5412H	3/8"																								
5414H	7/16"																								
5416H	1/2"																								
5418H	9/16"																								
5419H	19/32"																								
5420H	5/8"																								
5422H	11/16"																								
5424H	3/4"																								
5425H	25/32"																								
5426H	13/16"																								
5428H	7/8"																								
5430H	15/16"																								
5432H	1"																								
5434H	1 1/16"																								
5436H	1 1/8"																								
5438H	1 3/16"																								
5440H	1 1/4"																								
5448H	1 1/2"																								
532050	5/8"																								
5326HPA	13/16"																								
5449	1/2" X 10 1/8"																								
5452A	1/2" X 10 1/8"																								
5460	1/2" X 2 1/2"																								
5461	1/2" X 5"																								
5463	1/2" X 10"																								
5467	1/2" X 15 3/4"																								
5468	1/2" X 17 7/8"																								
5470	1/2" X 2 5/8"																								
5480	1/2" X 18"																								
5485	12 15/16"																								
1212	3/8"																								
1214	7/16"																								
1216	1/2"																								
1218	9/16"																								
1220	5/8"																								
1222	11/16"																								
1224	3/4"																								
2406	10"																								



SETS OF SOCKETS WITH TORX AND HEX TIPS IN FRACTIONAL AND METRIC SIZES, 1/2" DRIVE

1/2"



54417
5441M6
5439C

CODE	DESCRIPTION	157	157	157
5441-1/4	1/4	●		
5441-5/16	5/16	●		
5441-3/8	3/8	●		
5441-7/16	7/16	●		
5441-1/2	1/2	●		
5441-9/16	9/16	●		
5441-5/8	5/8	●		
54416M	6mm	●	●	
54418M	8mm	●	●	
544110M	10mm	●	●	
544112M	12mm	●	●	
544114M	14mm	●	●	
544117M	17mm	●	●	
543920W	T20	●		●
543925W	T25	●		●
543930W	T30	●		●
543940W	T40	●		●
543945W	T45	●		●
543950W	T50	●		●
543955W	T55	●		●

1/2" SOCKET SET FRACTIONAL AND METRIC

1/2"

12

"

mm



5400SM

CODE	DESCRIPTION	154
5412	3/8"	●
5414	7/16"	●
5416	1/2"	●
5418	9/16"	●
5419	19/32"	●
5420	5/8"	●
5422	11/16"	●
5424	3/4"	●
5425	25/32"	●
5426	13/16"	●
5428	7/8"	●
5430	15/16"	●
5432	1"	●
5434	1 1/16"	●
5436	1 1/8"	●
5438	1 3/16"	●
5440	1 1/4"	●
5410M	10 mm	●
5411M	11 mm	●
5412M	12 mm	●
5413M	13 mm	●
5414M	14 mm	●
5415M	15 mm	●
5416M	16 mm	●
5417M	17 mm	●
5418M	18 mm	●
5419M	19 mm	●
5420M	20 mm	●
5421M	21 mm	●
5422M	22 mm	●
5423M	23 mm	●
5424M	24 mm	●
5426M	26 mm	●
5428M	28 mm	●
5430M	30 mm	●
5432M	32 mm	●
5452A	45 teeth	●
5461	5"	●
5463	10"	●
5470	2 5/8"	●
5480	18"	●
5440	9"	●
5495	49.5 x 22.0 x 4.5cm	●

3/4" SOCKET SETS

3/4"

6

12



55109
55113
55111
55205
55207

CODE	DESCRIPTION	111	112	112	114	114
5528HL	7/8"	●				
5530HL	15/16"	●				
5532HL	1"	●				
5534HL	1 1/16"	●				
5536HL	1 1/8"	●				
5538HL	1 3/16"	●				
5540HL	1 1/4"	●				
5542HL	1 5/16"	●				
5544HL	1 3/8"	●				
5546HL	1 7/16"	●				
5548HL	1 1/2"	●				
5550HL	1 9/16"	●				
5552HL	1 5/8"	●				
5528	7/8"	●				
5530	15/16"	●				
5532	1"	●				
5534	1 1/16"	●				
5536	1 1/8"	●				
5538	1 3/16"	●				
5540	1 1/4"	●				
5542	1 5/16"	●				
5544	1 3/8"	●				
5546	1 7/16"	●				
5548	1 1/2"	●				
5550	1 9/16"	●				
5552	1 5/8"	●				
5554	1 11/16"	●				
5556	1 3/4"	●				
5558	1 13/16"	●				
5560	1 7/8"	●				
5564	2"	●				
5522M	22mm					●
5523M	23mm					●
5524M	24mm					●
5525M	25mm					●
5526M	26mm					●
5527M	27mm					●
5528M	28mm					●
5529M	29mm					●
5530M	30mm					●
5532M	32mm					●
5535M	35mm					●
5536M	36mm					●
5538M	38mm					●
5541M	41mm					●
5542M	42mm					●
5546M	46mm					●
5550M	50mm					●
5530H	15/16"	●				
5534H	1 1/16"	●				
5536H	1 1/8"	●				
5538H	1 3/16"	●				
5540H	1 1/4"	●				
5542H	1 5/16"	●				
5546H	1 7/16"	●				
5548H	1 1/2"	●				
5550H	1 9/16"	●				
5552H	1 5/8"	●				
5554H	1 11/16"	●				
5558H	1 13/16"	●				
5560H	1 7/8"	●				
5564H	2"	●				
5519HM	19mm					●
5522HM	22mm					●
5524HM	24mm					●
5525HM	25mm					●
5527HM	27mm					●
5528HM	28mm					●
5530HM	30mm					●
5532HM	32mm					●
5533HM	33mm					●
5534HM	34mm					●
5536HM	36mm					●
5538HM	38mm					●
5541HM	41mm					●
5546HM	46mm					●
5550HM	50mm					●

3

SOCKETS SETS CONTINUED

3/4" 6 12

CODE	DESCRIPTION	170 170 171 171 172 173 173 174							
		55104	5500C	5500NR	55102H	55100H	55202	55200	55200H
5524	3/4"								
5526	13/16"								
5528	7/8"								
5530	15/16"								
5532	1"								
5534	1 1/16"								
5536	1 1/8"								
5538	1 3/16"								
5540	1 1/4"								
5542	1 5/16"								
5544	1 3/8"								
5546	1 7/16"								
5548	1 1/2"								
5550	1 9/16"								
5552	1 5/8"								
5554	1 11/16"								
5556	1 3/4"								
5558	1 13/16"								
5560	1 7/8"								
5564	2"								
5568	2 1/8"								
5570	2 3/16"								
5572	2 1/4"								
5576	2 3/8"								
5521M	21mm								
5522M	22mm								
5523M	23mm								
5524M	24mm								
5525M	25mm								
5526M	26mm								
5527M	27mm								
5528M	28mm								
5529M	29mm								
5530M	30mm								
5531M	31mm								
5532M	32mm								
5535M	35mm								
5536M	36mm								
5538M	38mm								
5541M	41mm								
5542M	42mm								
5546M	46mm								
5550M	50mm								
5554M	54mm								
5555M	55mm								
5558M	58mm								
5560M	60mm								
5530H	15/16"								
5534H	1 1/16"								
5536H	1 1/8"								
5538H	1 3/16"								
5540H	1 1/4"								
5542H	1 5/16"								
5546H	1 7/16"								
5548H	1 1/2"								
5550H	1 9/16"								
5552H	1 5/8"								
5554H	1 11/16"								
5558H	1 13/16"								
5560H	1 7/8"								
5564H	2"								
5519HM	19mm								
5522HM	22mm								
5524HM	24mm								
5525HM	25mm								
5527HM	27mm								
5528HM	28mm								
5530HM	30mm								
5532HM	32mm								
5533HM	33mm								
5534HM	34mm								
5536HM	36mm								
5538HM	38mm								
5541HM	41mm								
5546HM	46mm								
5550HM	50mm								
5649	3/4" X 20"								
5660	3/4" X 4"								
5661	3/4" X 8"								
5663	3/4" X 16"								
5668	3/4" X 20 13/16"								
5670	3/4" X 3 3/4"								
5685	3/4" X 18"								
5686	3/4" X 16"								

1" SOCKET SETS

1" 1" mm

CODE	DESCRIPTION	164 164 164 165 165 165					
		57104	57102	5800A	57100	57106	5800AM
5734	1 1/16"						
5736	1 1/8"						
5740	1 1/4"						
5742	1 5/16"						
5744	1 3/8"						
5746	1 7/16"						
5748	1 1/2"						
5752	1 5/8"						
5758	1 13/16"						
5760	1 7/8"						
5764	2"						
5768	2 1/8"						
5770	2 3/16"						
5772	2 1/4"						
5776	2 3/8"						
5780	2 1/2"						
5782	2 4/16"						
5784	2 5/8"						
5788	2 3/4"						
5794	2 15/16"						
5796	3"						
5800	3 1/8"						
5812	3 1/2"						
5736M	36mm						
5741M	41mm						
5746M	46mm						
5750M	50mm						
5755M	55mm						
5760M	60mm						
5765M	65mm						
5770M	70mm						
5775M	75mm						
5849	1" X 26"						
5886	1" X 30"						
5861	1" X 8"						
5863	1" X 16"						
5885	1" X 28 1/2"						
5870	1"						

REPAIR KITS

1/4" 3/8" 1/2" 3/4" 1"

CODE	DESCRIPTION	117 134 161 175 186				
		117	134	161	175	186
4749Q	For ratchet handle					
4766	For hinge handle					
5249Q	For ratchet handle					
5265 5265H	For hinge handle					
544952N	For ratchet handle					
5449Q	For ratchet handle					
5452A 5457	For ratchet handle					
5649Q	For ratchet handle					
5668 5668H	For hinge handle					
5849	For ratchet handle					

DRIVE SETS OF 12-POINT AND 6-POINT HAND SOCKETS IN FRACTIONAL AND METRIC SIZES WITH ACCESSORIES

475254

75 PIECES

SET OF 75 12-POINT AND 6-POINT SOCKETS IN FRACTIONAL AND METRIC SIZES WITH ACCESSORIES, 1/4", 3/8", AND 1/2" DRIVES, IN METAL BOX



CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE
4706	3/16"	4706T	3/16"	4705M	5 mm	4710L	5/16"	5212H	3/8"
4707	7/32"	4707T	7/32"	4706M	6 mm	4711L	11/32"	5214H	7/16"
4708	1/4"	4708T	1/4"	4707M	7 mm	4712L	3/8"	5216H	1/2"
4709	9/32"	4709T	9/32"	4708M	8 mm	4714L	7/16"	5218H	9/16"
4710	5/16"	4710T	5/16"	4709M	9 mm	4716L	1/2"	5220H	5/8"
4711	11/32"	4711T	11/32"	4710M	10 mm			5222H	11/16"
4712	3/8"	4712T	3/8"	4711M	11 mm			5224H	3/4"
4714	7/16"	4714T	7/16"	4712M	12 mm			5226H	13/16"
4716	1/2"	4716T	1/2"	4713M	13 mm				

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
5210HM	10 mm	5412H	3/8"	20004	No. 1, 1" long	4749	5", 24 teeth
5211HM	11 mm	5414H	7/16"	20008	No. 2, 1" long	5252A	7", 45 teeth
5212HM	12 mm	5416H	1/2"	22004	(6F-8R) 1" long	5260	3"
5213HM	13 mm	5418H	9/16"	22008	(8F-10R) 1" long	5452A	10 1/8", 45 teeth
5214HM	14 mm	5420H	5/8"	22012	(10F-12R) 1" long	9300MS	1/4"
5215HM	15 mm	5422H	11/16"	23016	T15, 1" long	502050	For 5/8" sparkplug with neoprene
5217HM	17 mm	5424H	3/4"	23020	T20, 1" long	5495	49.5 X 22.0 X 4.5 cm
5218HM	18 mm	5426H	13/16"	23024	T25, 1" long		
5219HM	19 mm	5428H	7/8"				
		5430H	15/16"				
		5432H	1"				

SUPER DRIVE SUPER DRIVE



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





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SETS OF 12-POINT AND 6-POINT HAND SOCKETS IN FRACTIONAL AND METRIC SIZES WITH ACCESSORIES, 1/4", 3/8" DRIVES

4700D

40 PIECES

SET OF 40 12-POINT AND 6-POINT SOCKETS IN FRACTIONAL AND METRIC SIZES WITH ACCESSORIES, 1/4", 3/8" DRIVES, IN A METAL BOX

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 4704M	4 mm	 4706	3/16"	 5209M	9 mm	 5212H	3/8"	 5026HPA	13/16" w/ neoprene
 4705M	5 mm	 4707	7/32"	 5210M	10 mm	 5214H	7/16"	 502050	5/8" with neoprene
 4706M	6 mm	 4708	1/4"	 5211M	11 mm	 5216H	1/2"	 5252A	45 teeth, 3/8"
 4707M	7 mm	 4709	9/32"	 5212M	12 mm	 5218H	9/16"	 4768	5 3/4"
 4708M	8 mm	 4710	5/16"	 5213M	13 mm	 5220H	5/8"		
 4709M	9 mm	 4711	11/32"	 5214M	14 mm	 5222H	11/16"		
 4710M	10 mm	 4712	3/8"	 5215M	15 mm	 5224H	3/4"		
 4711M	11 mm	 4714	7/16"	 5217M	17 mm				
 4712M	12 mm	 4716	1/2"	 5219M	19 mm				
								 526006	6"
								 5255	3/8" female to 1/4" male
								 5396	38.0 X 17.0 X 5.0 cm.






























SETS OF 6-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" AND 3/8" DRIVES

5200A

26 PIECES

SET OF 26 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" AND 3/8" DRIVES, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
 4706	3/16"	 5218H	9/16"	 502050	5/8" with neoprene	 5261	8"
 4707	7/32"	 5220H	5/8"	 4769	7"	 5262	12"
 4708	1/4"	 5222H	11/16"	 5249	7"	 5255	3/8" female to 1/4" male
 4709	9/32"	 5224H	3/4"	 5265	7 13/16"	 5256	1/4" male to 3/8" female
 4710	5/16"	 5226H	13/16"			 5270	1 15/16"
 4711	11/32"	 5228H	7/8"			 5396	38.0 X 17.0 X 5.0 cm.
 4712	3/8"	 5230H	15/16"				
 4714	7/16"	 5232H	1"				
 4716	1/2"						



SOCKETS SETS WITH ACCESSORIES, VARIETY OF DRIVE SIZES



SETS OF 12-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" AND 1/2" DRIVES

4754P

49 PIECES

SET OF 49 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" AND 1/2" DRIVES, IN BLOW MOLDED CASE

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION		
5412	3/8"	4705T	5/32"	1/4"	4760	3"	1/4"	4752A	Reversible 45 teeth 5"
5414	7/16"	4706T	3/16"	1/2"	5461	5"	1/2"	5452A	Reversible 45 teeth 5"
5416	1/2"	4707T	7/32"	1/4"	5463	10"	1/2"	5326HPA	For 13/16" sparkplug with neoprene
5418	9/16"	4708T	1/4"	1/2"	4785	4 1/2"	1/4"	9300MS	1/4"
5419	19/32"	4709T	9/32"	1/2"	5484	9"	1/4"	4771	For tips
5420	5/8"	4710T	5/16"	1/2"	5470	2 5/8"	1/4"	50001	90° hex adapter
5422	11/16"	4711T	11/32"	1/2"	4770	1 5/16"	1/4"	BM05	BLOW MOLDED CASE
5424	3/4"	4712T	3/8"						
5426	13/16"	4714T	7/16"						
5428	7/8"	4716T	1/2"						
5430	15/16"								
5436	1 1/8"								
5440	1 1/4"								



CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
1/4"	20006 No. 1, 1" long, reduced diameter	1/4"	22000 4F-5R, 1" long	1/4"	24000 1/16", 1 1/4" long	1/4"	23012 T10, 1" long
1/4"	20008 No. 2, 1" long	1/4"	22002 3F-4R, 1" long	1/4"	24004 5/64", 1 1/4" long	1/4"	23016 T15, 1" long
1/4"	20012 No. 3, 1" long	1/4"	22004 6F-8R, 1" long	1/4"	24012 1/8", 1 1/4" long		
		1/4"	22008 8F-10R, 1" long	1/4"	24016 5/32", 1 1/4" long		
				1/4"	24020 3/16", 1 1/4" long		



SET OF 12-POINT AND 6-POINT METRIC SOCKETS WITH ACCESSORIES, 1/4" AND 1/2" DRIVES

4754PM

49 PIECES

SET OF 49 12-POINT AND 6-POINT METRIC SOCKETS WITH ACCESSORIES, 1/4" AND 1/2" DRIVES, IN BLOW MOLDED CASE

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION		
4704M	4 mm	5410M	10 mm	5421M	21 mm	1/2"	5326HPA	13/16"	1/2"	5470	2 5/8"
4705M	5 mm	5411M	11 mm	5423M	23 mm	1/4"	4771	1/4"	1/4"	4752A	45 teeth 5"
4706M	6 mm	5412M	12 mm	5424M	24 mm	1/4"	4760	3"	1/2"	5452A	45 teeth 10"
4707M	7 mm	5413M	13 mm	5427M	27 mm	1/4"	4761	6"	1/4"	9300MS	1/4"
4708M	8 mm	5414M	14 mm	5430M	30 mm	1/4"	4763	14"	1/4"	50001	90° hex adapter
4709M	9 mm	5415M	15 mm			1/2"	4785	4 1/2"	1/4"	BM05	Blow Molded Case
4710M	10 mm	5417M	17 mm			1/2"	5485	12 15/16"			
4711M	11 mm	5419M	19 mm			1/4"	4770	1 5/16"			
4712M	12 mm										
4713M	13 mm										

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
1/4"	20006 No. 1, 1" long, reduced diameter	1/4"	22000 4F-5R, 1" long	1/4"	24004 5/64", 1 1/4" long	1/4"	23012 T10, 1" long
1/4"	20008 No. 2, 1" long	1/4"	22002 3F-4R, 1" long	1/4"	24012 1/8", 1 1/4" long	1/4"	23016 T15, 1" long
1/4"	20012 No. 3, 1" long	1/4"	22004 6F-8R, 1" long	1/4"	24016 5/32", 1 1/4" long		
		1/4"	22008 8F-10R, 1" long	1/4"	24020 3/16", 1 1/4" long		
















SET OF 12-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" AND 1/2" DRIVES

5452

36 PIECES

SET OF 36 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" AND 1/2" DRIVES, IN METAL BOX













CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
 5208	1/4"	 5414	7/16"	 5449	24 teeth, 10-1/8"	 5253	3/8" F x 1/2" M
5210	5/16"	5416	1/2"	 5468	17 7/8"	 5254	1/2" M x 3/8" F
5212	3/8"	5418	9/16"	 5285	8"	 5470	2 5/8"
 5214	7/16"	5420	5/8"	 5260	3"		
5216	1/2"	5422	11/16"	5261	8"		
5218	9/16"	5424	3/4"	 5461	5"		
 5220	5/8"	5426	13/16"	5463	10"		
5222	11/16"	5428	7/8"				5495 49.5 X 22.0 X 4.5 cm.
5224	3/4"	5430	15/16"				
5226	13/16"	5432	1"				
5228	7/8"	5434	1 1/16"				
5230	15/16"	5436	1 1/8"				
		5438	13/16"				
		5440	1 1/4"				



5452PT

34 PIECES

SET OF 34 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" AND 1/2" DRIVES, IN SOFT CASE

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
 5208	1/4"	 5414	7/16"	 544952N	30 teeth, 10 1/8"	 5461	5"
5210	5/16"	5416	1/2"	 5468	17 7/8"	5463	10"
5212	3/8"	5418	9/16"	 5468	17 7/8"	 5470	2 5/8"
 5214	7/16"	5420	5/8"	 5285	8"		
5216	1/2"	5422	11/16"	 5260	3"		PRT5 Soft case
5218	9/16"	5424	3/4"	5261	8"		
 5220	5/8"	5426	13/16"				
5222	11/16"	5428	7/8"				
5224	3/4"	5430	15/16"				
5226	13/16"	5432	1"				
5228	7/8"	5434	1 1/16"				
5230	15/16"	5436	1 1/8"				
		5438	13/16"				
		5440	1 1/4"				



SET OF SOCKETS WITH TORX TIPS, VARIETY OF DRIVE SIZES

475254W

12 PIECES

SET OF 12 SOCKETS WITH TORX TIPS, T10 TO T60, IN 1/4", 3/8", AND 1/2" DRIVES IN PLASTIC CARTRIDGE HOLDER

TORX SIZE	TYPE	DRIVE SIZE
T10	Torx	1/4"
T15	Torx	1/4"
T20	Torx	1/4"
T25	Torx	1/4"
T27	Torx	1/4"
T30	Torx	1/4"
T40	Torx	3/8"
T45	Torx	3/8"
T47	Torx	3/8"
T50	Torx	3/8"
T55	Torx	3/8"
T60	Torx	1/2"



3

475254T

12 PIECES

SET OF 12 SOCKETS 1/2" DRIVE WITH TORX TIPS, T10 TO T60 IN PLASTIC CARTRIDGE HOLDER

TORX SIZE	TYPE	DRIVE SIZE
T10	Torx	1/4"
T15	Torx	1/4"
T20	Torx	1/4"
T25	Torx	1/4"
T27	Torx	1/4"
T30	Torx	1/4"
T40	Torx	3/8"
T45	Torx	3/8"
T47	Torx	3/8"
T50	Torx	3/8"
T55	Torx	3/8"
T60	Torx	1/2"



4752T

9 PIECES

SET OF 9 SOCKETS WITH TORX PLUS TIPS, T10 TO T50, IN 1/4" AND 3/8" DRIVES IN PLASTIC CARTRIDGE HOLDER

TORX SIZE	TYPE	DRIVE SIZE
T10	Torx Plus	1/4"
T15	Torx Plus	1/4"
T20	Torx Plus	1/4"
T25	Torx Plus	1/4"
T27	Torx Plus	1/4"
T30	Torx Plus	1/4"
T40	Torx Plus	3/8"
T45	Torx Plus	3/8"
T50	Torx Plus	3/8"



4752TH

9 PIECES

SET OF 9 SOCKETS 3/8" DRIVE FRACTIONAL SIZES 1/4" AND 3/8", METRIC TIPS 7-10MM AND T40-T60 HEX TIPS IN A PLASTIC CARTRIDGEHOLDER

TORX SIZE	TYPE	DRIVE SIZE
T40	Torx	1/4"
T45	Torx	1/4"
T50	Torx	1/4"
T60	Torx	3/8"
1/4"	Hexagonal	1/4"
3/8"	Hexagonal	1/4"
7MM	Hexagonal	1/4"
8MM	Hexagonal	1/4"
10MM	Hexagonal	1/4"



4752W

9 PIECES

SET OF 9 IMPACT SOCKETS WITH TORX PLUS TIPS, T10 TO T50, IN 1/4" AND 3/8" DRIVES IN PLASTIC CARTRIDGE HOLDER

TORX SIZE	TYPE	DRIVE SIZE
T10	Torx Plus	1/4"
T15	Torx Plus	1/4"
T20	Torx Plus	1/4"
T25	Torx Plus	1/4"
T27	Torx Plus	1/4"
T30	Torx Plus	1/4"
T40	Torx Plus	3/8"
T45	Torx Plus	3/8"
T50	Torx Plus	3/8"



4752E

7 PIECES

SET OF 7 FEMALE TORX SOCKETS, E6 TO E16, WITH 1/4" AND 3/8" DRIVES IN PLASTIC CARTRIDGE HOLDER

TORX SIZE	TYPE	DRIVE SIZE
E6	Female Torx	1/4"
E7	Female Torx	1/4"
E8	Female Torx	1/4"
E10	Female Torx	3/8"
E12	Female Torx	3/8"
E14	Female Torx	3/8"
E16	Female Torx	3/8"



SET OF 12-POINT AND 6-POINT HAND SOCKETS IN FRACTIONAL AND METRIC SIZES WITH ACCESSORIES, 1/4" DRIVE

4700PM

15 PIECES

SET OF 15 12-POINT AND 6-POINT SOCKETS IN FRACTIONAL AND METRIC SIZES FROM 1/4" TO 1/2" AND 4-13 mm, WITH ACCESSORIES, 1/4" DRIVE, IN BLOW MOLDED CASE

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
4704M	4 mm	4710M	10 mm	4708T	1/4"	4760	3"
4705M	5 mm	4711M	11 mm	4712T	3/8"	4752A	45 teeth, 5"
4706M	6 mm	4712M	12 mm	4716T	1/2"	BM01	Blow Molded case
4707M	7 mm	4713M	13 mm				
4708M	8 mm						
4709M	9 mm						



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4700P

15 PIECES

SET OF 15 12-POINT AND 6-POINT SOCKETS IN FRACTIONAL AND METRIC SIZES FROM 5/32" TO 1/2" AND 6-13 mm, WITH ACCESSORIES, 1/4" DRIVE, IN BLOW MOLDED CASE

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
4705T	5/32"	4711T	11/32"	4706M	6 mm	4760	3"
4706T	3/16"	4712T	3/8"	4710M	10 mm	4752A	45 teeth, 5"
4707T	7/32"	4714T	7/16"	4713M	13 mm	BM01	Blow Molded case
4708T	1/4"	4716T	1/2"				
4709T	9/32"						
4710T	5/16"						



SET OF 6-POINT HAND SOCKETS IN FRACTIONAL AND METRIC SIZES WITH ACCESSORIES, 1/4" DRIVE

4700A

44 PIECES

SET OF 44 6-POINT SOCKETS IN FRACTIONAL AND METRIC SIZES WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX















CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
4706	3/16"	4708L	1/4"	4704M	4 mm	4706LM	6 mm	4752A	45 teeth, 5"
4707	7/32"	4709L	9/32"	4705M	5 mm	4707LM	7 mm	4760	3"
4708	1/4"	4710L	5/16"	47055M	5.5 mm	4708LM	8 mm	4761	6"
4709	9/32"	4711L	11/32"	4706M	6 mm	4709LM	9 mm	5396	35.5 X 17.7 X 5.5 cms
4710	5/16"	4712L	3/8"	4707M	7 mm	4710LM	10 mm		
4711	11/32"	4714L	7/16"	4708M	8 mm	4711LM	11 mm		
4712	3/8"	4716L	1/2"	4709M	9 mm	4712LM	12 mm		
4714	7/16"	4718L	9/16"	4710M	10 mm	4713LM	13 mm		
4716	1/2"			4711M	11 mm	4714LM	14 mm		
4718	9/16"			4712M	12 mm	4715LM	15 mm		
				4713M	13 mm				
				4714M	14 mm				



4700CM

24 PIECES

SET OF 24 6-POINT SOCKETS IN FRACTIONAL AND METRIC SIZES WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
 4707	7/32"	 4704M	4 mm	 4749	24 teeth, 5"	 4785	4 1/2"
4708	1/4"	4705M	5 mm	 4769	7"	 5396	38.0 X 17.0 X 5.0 cm.
4709	9/32"	4706M	6 mm	 4760	3"		
 4710	5/16"	 4707M	7 mm	 4761	6"		
4711	11/32"	4708M	8 mm	 4770	1 5/16"		
 4712	3/8"	4709M	9 mm				
4714	7/16"	 4710M	10 mm				
4716	1/2"	4711M	11 mm				
 4718	9/16"	4712M	12 mm				

SUPER DRIVE














SET OF 12-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" DRIVE

47111

16 PIECES

SET OF 16 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX

CODE	SIZE	CODE	DESCRIPTION
 4705T	5/32"	 4749	24 teeth, 5"
4706T	3/16"	 4769	7"
4707T	7/32"	 4760	3"
 4708T	1/4"	 4761	6"
4709T	9/32"	 4770	1 5/16"
 4710T	5/16"		
 4711T	11/32"	 4725	24.5 X 11.0 X 4.0 cm.
4712T	3/8"		
4714T	7/16"		
4716T	1/2"		
 4718T	9/16"		








SUPER DRIVE



47110

12 PIECES

SET OF 12 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 4706T	3/16"	 4711T	11/32"	 4749	24 teeth, 5"
4707T	7/32"	4712T	3/8"	 4769	7"
 4708T	1/4"	4714T	7/16"	 4725	24.5 X 11.0 X 4.0 cm.
4709T	9/32"	4716T	1/2"		
 4710T	5/16"	4718T	9/16"		

SUPER DRIVE



47104

9 PIECES

SET OF 9 12-POINT SOCKETS IN FRACTIONAL SIZES, 1/4" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	DESCRIPTION
4706T	3/16"	2584	Rail for clips and sockets, 6"
4707T	7/32"	2590	Socket clip
4708T	1/4"		
4709T	9/32"		
4710T	5/16"		
4711T	11/32"		
4712T	3/8"		
4714T	7/16"		
4716T	1/2"		



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SET OF 6-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" DRIVE

47116

25 PIECES

SET OF 25 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
4706	3/16"	4706L	3/16"	4749	24 teeth, 5"	4770	1 5/16"
4707	7/32"	4707L	7/32"	4760	3"	5396	38.0 X 17.0 X 5.0 cm.
4708	1/4"	4708L	1/4"	4761	6"		
4709	9/32"	4709L	9/32"	4769	7"		
4710	5/16"	4710L	5/16"				
4711	11/32"	4711L	11/32"				
4712	3/8"	4712L	3/8"				
4714	7/16"	4714L	7/16"				
4716	1/2"	4716L	1/2"				
4718	9/16"	4718L	9/16"				



4700CA

19 PIECES

SET OF 19 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX









CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
4706	3/16"	4708L	1/4"	4749	24 teeth, 5"	5396	38.0 X 17.0 X 5.0 cm.
4707	7/32"	4709L	9/32"	4766	5 13/16"		
4708	1/4"	4710L	5/16"	4760	3"		
4709	9/32"	4711L	11/32"	4761	6"		
4710	5/16"	4712L	3/8"	4770	1 5/16"		
4711	11/32"	4714L	7/16"				
4712	3/8"						
4714	7/16"						



47112

15 PIECES

SET OF 15 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX







CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION	
 4706	3/16"	4712	3/8"	 4749	24 teeth, 5"	 4770	1 5/16"	
4707	7/32"	4714	7/16"					
 4708	1/4"	4716	1/2"	 4760	3"			
4709	9/32"	4718	9/16"	 4761	6"		4725	24.5 X 11.0 X 4.0 cm.
 4710	5/16"							
4711	11/32"							



4700C

11 PIECES

SET OF 11 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX






CODE	SIZE	CODE	DESCRIPTION
 4706	3/16"	 4749	24 teeth, 5"
4707	7/32"		
4708	1/4"		
 4709	9/32"	 4769	7"
4710	5/16"		
4711	11/32"		
 4712	3/8"		4725 24.5 X 11.0 X 4.0 cm.
4714	7/16"		
4716	1/2"		



47106

10 PIECES

SET OF 10 6-POINT SOCKETS IN FRACTIONAL SIZES, 1/4" DRIVE, ON RAIL AND CLIPS







CODE	SIZE	CODE	DESCRIPTION
 4706	3/16"	 2584	Rail for clips and sockets, 6"
4707	7/32"		
4708	1/4"		
 4709	9/32"	 2590	Socket clip
4710	5/16"		
4711	11/32"		
 4712	3/8"		
4714	7/16"		
4716	1/2"		
4718	9/16"		



47204

9 PIECES

SET OF 9 6-POINT SOCKETS IN FRACTIONAL SIZES, 1/4" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	DESCRIPTION
 4706	3/16"	 2584	Rail for clips and sockets, 6"
4707	7/32"	 2590	Socket clip
 4708	1/4"		
 4709	9/32"		
4710	5/16"		
4711	11/32"		
 4712	3/8"		
4714	7/16"		
4716	1/2"		









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4700

7 PIECES

SET OF 7 6-POINT SOCKETS IN FRACTIONAL SIZES, ON RAIL AND CLIPS, WITH 1/4" DRIVE SCREWDRIVER HANDLE

CODE	SIZE	CODE	DESCRIPTION
 4708	1/4"	 4769	7"
4709	9/32"	 2590	Socket clip
 4710	5/16"	 2584	Rail for clips and sockets, 6"
4711	11/32"		
4712	3/8"		
 4714	7/16"		









SETS OF 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/4" DRIVE

47102

8 PIECES

SET OF 8 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/4" DRIVE, ON RAIL AND CLIPS







CODE	SIZE	CODE	DESCRIPTION
 4708L	1/4"	 2584	Rail for clips and sockets, 6"
4709L	9/32"	 2590	Socket clip
 4710L	5/16"		
4711L	11/32"		
 4712L	3/8"		
4714L	7/16"		
 4716L	1/2"		
4718L	9/16"		



4700L

7 PIECES

SET OF 7 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/4" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	DESCRIPTION
 4708L	1/4"	 2584	Rail for clips and sockets, 6"
4709L	9/32"	 2590	Socket clip
 4710L	5/16"		
4711L	11/32"		
 4712L	3/8"		
4714L	7/16"		
 4716L	1/2"		















SET OF 6-POINT METRIC HAND SOCKETS WITH ACCESSORIES, 1/4" DRIVE

47206

29 PIECE

SET OF 29 6-POINT METRIC SOCKETS WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
 4704M	4 mm	4709M	9 mm	 4704LM	4 mm	4709LM	9 mm	 4749	24 teeth, 5"	 4770	11 5/6"
4705M	5 mm	4710M	10 mm	4705LM	5 mm	4710LM	10 mm	 4760	3"	 5396	38.0 X 17.0 X 5.0 cm.
 47055M	5.5 mm	4711M	11 mm	47055LM	5.5 mm	4711LM	11 mm	 4761	6"		
4706M	6 mm	4712M	12 mm	 4706LM	6 mm	4712LM	12 mm	 4769	7"		
 4707M	7 mm	4713M	13 mm	4707LM	7 mm	4713LM	13 mm				
4708M	8 mm	4714M	14 mm	 4708LM	8 mm	4714LM	14 mm				









SUPER DRIVE



47205

17 PIECE

SET OF 17 6-POINT METRIC SOCKETS WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
 4704M	4 mm	4709M	9 mm	 4749	24 teeth, 5"	 4770	1 5/16"
4705M	5 mm	4710M	10 mm	 4769	7"	 4725	24.5 X 11.0 X 4.0 cm.
 47055M	5.5 mm	4711M	11 mm	 4760	3"		
4706M	6 mm	4712M	12 mm	4761	6"		
 4707M	7 mm	4713M	13 mm				
4708M	8 mm	4714M	14 mm				







SUPER DRIVE



47208

15 PIECE

SET OF 15 6-POINT METRIC SOCKETS WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 4704M	4 mm	4709M	9 mm	 4749	24 teeth, 5"
47045M	4.5 mm	4710M	10 mm	 4769	7"
4705M	5 mm	4711M	11 mm	 4725	24.5 X 11.0 X 4.0 cm.
 47055M	5.5 mm	4712M	12 mm		
4706M	6 mm	4713M	13 mm		
 4707M	7 mm	4714M	14 mm		
4708M	8 mm				

SUPER DRIVE



4700M

14 PIECE

SET OF 14 6-POINT METRIC SOCKETS WITH ACCESSORIES, 1/4" DRIVE, IN METAL BOX

CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
4706M	6 mm	1/4" 4749	24 teeth, 5"	1/4" 4760	3"	4725	24.5 X 11.0 X 4.0 cm.
4707M	7 mm			1/4" 4761	6"		
4708M	8 mm						
4709M	9 mm	1/4" 4769	7"	1/4" 4770	1 5/16"		
4710M	10 mm						
4711M	11 mm	1/4" 4766	5 13/16"	1/4" 4785	4 1/2"		
4712M	12 mm						



3

SUPER DRIVE

47207

9 PIECE

SET OF 9 6-POINT METRIC SOCKETS, 1/4" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	DESCRIPTION
4704M	4 mm	2584	Rail for clips and sockets, 6"
4705M	5 mm		
4706M	6 mm	2590	Socket clip
4707M	7 mm		
4708M	8 mm		
4709M	9 mm		
4710M	10 mm		
4711M	11 mm		
4712M	12 mm		



SUPER DRIVE

SETS OF DEEP 6-POINT METRIC SOCKETS, 1/4" DRIVE

47202

9 PIECE

SET OF 9 6-POINT DEEP METRIC SOCKETS, 1/4" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	DESCRIPTION
4706LM	6 mm	2584	Rail for clips and sockets, 6"
4707LM	7 mm		
4708LM	8 mm	2590	Socket clip
4709LM	9 mm		
4710LM	10 mm		
4711LM	11 mm		
4712LM	12 mm		
4713LM	13 mm		
4714LM	14 mm		



SUPER DRIVE

4700LM

7 PIECE

SET OF 7 6-POINT DEEP METRIC SOCKETS, 1/4" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	DESCRIPTION
4707LM	7 mm	2584	Rail for clips and sockets, 6"
4708LM	8 mm		
4709LM	9 mm	2590	Socket clip
4710LM	10 mm		
4711LM	11 mm		
4712LM	12 mm		
4713LM	13 mm		



SUPER DRIVE

REVERSIBLE RATCHET HANDLES, 1/4" DRIVE

Ratchet handles are used together with sockets; the ratchet handle is the lever arm that lets you apply torque using the socket attached to it. The reversible mechanism lets the socket turn in both directions for tightening and loosening. The design and dimensions of 1/4" ratchet handles are ideal for assembly and maintenance work on electronic, electro-pneumatic, and electrical control equipment. The maximum recommended torque for a 1/4" ratchet handle is 450 lbs.

4749G

REVERSIBLE OFFSET RATCHET HANDLE, 72 TEETH



CODE	DRIVE SIZE		LENGTH		WEIGHT		RESISTANCE, ASME/ANSI B 107.10M lb-in	NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs		
4749G	1/4"	6.3	6"	150	114	0.251	450	72



STANDARDS: FEDERAL GGG-W-641, ASME B 107.4M, ISO 3315, SAE AS4283, DIN 3123

Quadruple mechanism uses a toothed cam that maintains contact with four gear teeth when torque is applied.

5-degree swing arc

Ergonomic

Poly propylene cover.



Quick Release system.

Impact resistance.

4749X

REVERSIBLE PEAR-HEAD RATCHET HANDLES, 24 TEETH

CODE	DESCRIPTION	DRIVE SIZE		LENGTH		WEIGHT		RESISTANCE, ASME/ANSI B 107.10M lb-in	NO. OF GEAR TEETH
		in	mm	in	mm	grs	lbs		
4749H	Rubber Grip Handle	1/4"	6.3	5"	127.0	110	0.242	450	24
4749		1/4"	6.3	5 1/32"	127.8	115	0.253	450	24
4749Q	Quick Release	1/4"	6.3	5"	127.0	110	0.242	450	24



STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B 107.4M, ISO 3315, SAE AS4283, DIN 3123



The QUICK RELEASE system has been added to the traditional pear-head ratchet mechanism, so you can attach and remove sockets and accessories effortlessly. This is especially important when working with greases and oils that make sockets and accessories slippery, so that it becomes very difficult to remove them from the ratchet drive. With this system, you just push the button on the back of the ratchet head and the socket or accessory drops off.

Traditional ratchet mechanism design with alloyed steel bolts, bolts, ARE heat-treated in controlled-atmosphere furnaces to guarantee high strength and wear-resistance.

Gear with 24 teeth and 15-degree swing arc.



4749Q

Narrow head for access to tight spaces.

Available with RUBBER GRIP handle for a more secure and comfortable grip.



4749H



4749

4749N

REVERSIBLE PEAR-HEAD RATCHET HANDLE, 30 TEETH



CODE	DRIVE SIZE		LENGTH		WEIGHT		RESISTANCE, ASME/ANSI B 107.10M lb-in	NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs		
4749N	1/4"	6.3	5"	127	100	0.220462	450	30



STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B 107.4M, ISO 3315, SAE AS4283, DIN 3123

Handle has more contact surface for easier changes in rotation direction.

Double-ratchet mechanism uses a toothed cam that maintains contact with two gear teeth when torque is applied.



30-tooth gear and 12-degree swing arc

The pear-head ratchet handle also has a QUICK RELEASE mechanism on the 1/4" drive.

4752A

REVERSIBLE ROUND-HEAD RATCHET HANDLE, 45 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE, ASME/ANSI B 107.10M		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
4752A	1/4"	6.3	5 1/8"	130.17	100	0.220	450

STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B 107.4M, ISO 3315, SAE AS4283, DIN 3123



Smaller round head for access to tight spaces.

Internal mechanism assembled as one piece held by a retaining ring, which eliminates the use of screws.



Precision-machined gear on internal head wall, with total of 45 teeth and 8-degree swing arc.



4749QRK

REPLACEMENT PARTS FOR REVERSIBLE RATCHET HANDLES, 1/4" DRIVE

CODE	DESCRIPTION
4749QRK	Set of replacement parts for ratchet handle code: 4749Q



HINGE HANDLE, 1/4" DRIVE

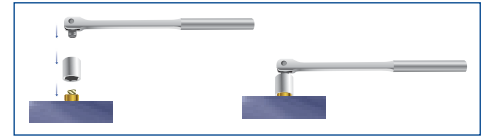
This is a lever arm with a drive that rotates 180 degrees so you can apply torque with different angles of attack. The maximum recommended torque for a 1/4" hinge handle is 400 in-lbs.

4766

HINGE HANDLE

CODE	DRIVE SIZE		LENGTH		RESISTANCE, ASME/ANSI B 107.10M	
	in	mm	in	mm	grs	lbs
4766	1/4"	6.3	5 51/64"	147.2	137	0.302

STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B 107.10M, ISO 3315, SAE AS4283, DIN 3123



4766RK

REPLACEMENT PARTS FOR HINGE HANDLE, 1/4" DRIVE

CODE	DESCRIPTION
4766RK	Set of replacement parts for hinge handle code: 4766



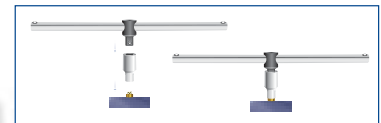
SLIDING BAR, 1/4" DRIVE

This is a lever arm with a drive that slides on the bar, so you can vary the distance between the socket's rotation center and the end where torque is applied. You can also position the drive in the center of the bar and use both hands to apply force. The maximum recommended torque for a 1/4" sliding bar is 400 in-lbs.

4785

CODE	DRIVE SIZE		LENGTH		RESISTANCE, ASME/ANSI B 107.10M	
	in	mm	in	mm	grs	lbs
4785	1/4"	6.3	4 1/2"	114.3	36	0.079

STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B 107.10M, ISO 3315, SAE AS4283, DIN 3123



1/4" SQUARE DRIVE SCREWDRIVER HANDLES

This is a handle used to turn sockets or adapters with 1/4" drives. It differs from other handles in that force is applied axially, i.e., torque is applied by turning the handle as you would turn a screwdriver. It is very useful in applications such as refrigeration and electronics. The maximum recommended torque for a 1/4" square drive screwdriver handle is 50 in-lbs.

476X

1/4" SQUARE DRIVE SCREWDRIVER HANDLES

CODE	DRIVE SIZE		LENGTH		RESISTANCE, ASME/ANSI B 107.10M	
	in	mm	in	mm	grs	lbs
4769	1/4"	6.3	7"	77.8	92	0.202
4768	1/4"	6.3	5 3/4"	146	80	0.176

STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B 107.10M, ISO 3315, SAE AS4283, DIN 3123



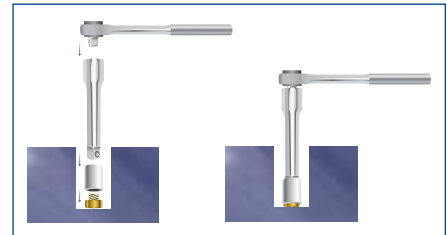
1/4" DRIVE EXTENSIONS

This accessory lets you work on screws in tight or deep spaces where a ratchet handle head can't reach; available in a variety of lengths. The maximum recommended torque for a 1/4" extension of any length is 500 in-lbs.

476X

CODE	DRIVE SIZE		LENGTH		RESISTANCE		RESISTANCE ASME/ANSI B 107.10M lb-in
	in	mm	in	mm	grs	lbs	
4760	1/4"	6.3	3"	76.2	31	0.068	500
4761	1/4"	6.3	6"	152.4	49	0.108	500
4762	1/4"	6.3	10"	254.0	108	0.239	500
4764	1/4"	6.3	12"	304.8	130	0.286	500
4763	1/4"	6.3	14"	355.6	49	0.108	500

STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B 107.10M, ISO 3315, SAE AS4283, DIN 3123



1/4" DRIVE UNIVERSAL JOINT

This accessory makes the advantages of a hinge handle available to any fixed handle, such as a ratchet or sliding bar, so you can access nuts or bolts at a variety of angles. The maximum recommended torque for a 1/4" universal joint is 250 in-lbs.

4770

CODE	DRIVE SIZE		LENGTH		RESISTANCE		RESISTANCE ASME/ANSI B 107.10M lb-in
	in	mm	in	mm	grs	lbs	
4770	1/4"	6.3	1 5/16"	33.3	18	0.039	250

STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B 107.10M, ISO 3315, SAE AS4283, DIN 3123



1/4" BIT ADAPTER

For hex insert tips, phillips, torx, flat, etc. Using 1/4" drives.

4771

CODE	LENGTH			
	in	mm	grs	lbs
4771	15/16"	23.8	5.1	0.011



- 1/4" Adapter female drive.

The line of 1/4" sockets is used primarily for delicate work such as electronics, pneumatics, and electromechanics, with the following ranges of application:
 Socket Opening size: 5/32"-9/16" and 4-15 mm.

Torque applications for sockets, handles, and accessories: from 35 to 500 in-lbs.

To keep your sockets and accessories neat and orderly, we recommend using the various organization and storage options presented in section 2 of this catalog.

The entire URREA socket family incorporates the design. **SUPER DRIVE**



12-POINT SOCKETS IN FRACTIONAL SIZES, 1/4" DRIVE

47XXT

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX-END in	DRIVE-END in			grs.	lbs	lb-in
4705T	5/32"	3.9	1"	24.9	1/4	7/16	1/4	I	9	0.02	60
4706T	3/16"	4.7	1"	24.9	5/16	7/16	1/4	I	9	0.02	95
4707T	7/32"	5.5	1"	24.9	3/8	7/16	1/4	I	9	0.02	113
4708T	1/4"	6.3	1"	24.9	3/8	7/16	5/16	I	10	0.02	190
4709T	9/32"	7.1	1"	24.9	3/8	7/16	3/8	I	10	0.02	220
4710T	5/16"	7.9	1"	24.9	7/16	7/16	3/8	II	11	0.02	290
4711T	11/32"	8.7	1"	24.9	1/2	1/2	3/8	II	13	0.03	350
4712T	3/8"	9.5	1"	24.9	9/16	9/16	3/8	II	17	0.04	400
4714T	7/16"	11.1	1"	24.9	5/8	5/8	7/16	II	20	0.04	400
4716T	1/2"	12.7	1"	24.9	11/16	11/16	7/16	II	23	0.05	400
4718T	9/16"	14.2	1"	24.9	3/4	3/4	7/16	II	27	0.06	400



STANDARDS: FEDERAL GGG-W-641
 ASME/ANSI B 107.4
 DIN 3123



TYPE I



TYPE II

6-POINT SOCKETS IN FRACTIONAL SIZES, 1/4" DRIVE

47XX

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX-END in	DRIVE-END in			grs.	lbs	lb-in
4705	5/32"	3.9	1"	24.9	1/4	7/16	1/4	I	9	0.02	60
4706	3/16"	4.7	1"	24.9	5/16	7/16	1/4	I	9	0.02	95
4707	7/32"	5.5	1"	24.9	3/8	7/16	1/4	I	9	0.02	113
4708	1/4"	6.3	1"	24.9	3/8	7/16	5/16	I	10	0.02	190
4709	9/32"	7.1	1"	24.9	3/8	7/16	3/8	I	10	0.02	220
4710	5/16"	7.9	1"	24.9	7/16	7/16	3/8	II	11	0.02	290
4711	11/32"	8.7	1"	24.9	1/2	1/2	3/8	II	13	0.03	350
4712	3/8"	9.5	1"	24.9	9/16	9/16	3/8	II	17	0.04	400
4714	7/16"	11.1	1"	24.9	5/8	5/8	7/16	II	20	0.04	400
4716	1/2"	12.7	1"	24.9	11/16	11/16	7/16	II	23	0.05	400
4718	9/16"	14.2	1"	24.9	3/4	3/4	7/16	II	27	0.06	400



STANDARDS: FEDERAL GGG-W-641
 ASME/ANSI B 107.4
 DIN 3123



TYPE I



TYPE II

6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/4" DRIVE

47XXL

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	⚖️	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX- END	DRIVE- END				grs.	lbs	lb-in
4706L	3/16"	4.7	1"	50.0	5/16	7/16	1/4	I	18	0.04	95	
4707L	7/32"	5.5	1"	50.0	3/8	7/16	1/4	I	18	0.04	135	
4708L	1/4"	6.3	1"	50.0	3/8	7/16	5/16	I	20	0.04	190	
4709L	9/32"	7.1	1"	50.0	3/8	7/16	3/8	I	21	0.05	250	
4710L	5/16"	7.9	1"	50.0	7/16	7/16	3/8	II	23	0.05	320	
4711L	11/32"	8.7	1"	50.0	1/2	1/2	3/8	II	31	0.07	400	
4712L	3/8"	9.5	1"	50.0	9/16	9/16	3/8	II	40	0.09	500	
4714L	7/16"	11.11	1"	50.0	5/8	5/8	13/16	II	46	0.10	500	
4716L	1/2"	12.7	1"	50.0	11/16	11/16	13/16	II	54	0.12	500	
4718L	9/16"	14.28	1"	50.0	3/4	3/4	13/16	II	65	0.14	500	



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B 107.4
DIN 3123



TYPE I



TYPE II

6-POINT METRIC SOCKETS, 1/4" DRIVE

47XXM

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	⚖️	TORQUE STRENGTH ASME/ANSI B107.5M		
	mm	in	mm	mm	HEX- END	DRIVE- END				grs.	lbs	lb-in
4704M	4	1"	25.4	7.1	11.0	3.1	I	7	0.02	71		
47045M	4.5	1"	25.4	7.4	11.0	3.1	I	7	0.02	80		
4705M	5	1"	25.4	8.0	11.0	4.7	I	7	0.02	84		
47055M	5.5	1"	25.4	8.7	11.0	4.7	I	7	0.02	124		
4706M	6	1"	25.4	9.5	11.0	4.7	I	8	0.02	142		
4707M	7	1"	25.4	11.0	11.0	5.5	I	10	0.02	239		
4708M	8	1"	25.4	12.64	12.6	5.5	II	10	0.02	336		
4709M	9	1"	25.4	14.2	14.2	5.5	II	11	0.02	434		
4710M	10	1"	25.4	14.2	14.2	6.35	II	18	0.04	558		
4711M	11	1"	25.4	15.8	15.8	6.35	II	20	0.04	602		
4712M	12	1"	25.4	17.4	17.4	6.8	II	25	0.06	602		
4713M	13	1"	25.4	20.49	20.49	8.3	II	27	0.06	602		
4714M	14	1"	25.4	20.49	20.49	8.3	II	27	0.06	602		
4715M	15	1"	25.4	20.95	20.95	8.3	II	30	0.06	602		



STANDARDS: ASME/ANSI B 107.10M
DIN 3123



TYPE I



TYPE II

6-POINT DEEP METRIC SOCKETS, 1/4" DRIVE

47XXLM

CODE	HEX SIZE	LENGTH	OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH- ASME/ANSI B107.5M			
			HEX- END	DRIVE- END			grs.	lb	lb-in	
	mm	in	mm	mm	mm					
4704LM	4	2"	50.0	7.1	11.0	3.1	I	14	0.03	71
47045LM	4.5	2"	50.0	7.4	11.0	3.1	I	14	0.03	80
4705LM	5	2"	50.0	8.0	11.0	4.7	I	14	0.03	89
47055LM	5.5	2"	50.0	8.7	11.0	4.7	I	14	0.03	124
4706LM	6	2"	50.0	9.5	11.0	4.7	I	21	0.05	142
4707LM	7	2"	50.0	11.0	11.0	5.5	I	23	0.05	239
4708LM	8	2"	50.0	12.6	12.6	5.5	II	25	0.06	336
4709LM	9	2"	50.0	14.2	14.2	5.5	II	29	0.06	400
4710LM	10	2"	50.0	14.2	14.2	6.3	II	38	0.08	558
4711LM	11	2"	50.0	15.8	15.8	6.3	II	38	0.08	602
4712LM	12	2"	50.0	17.3	17.3	6.8	II	51	0.11	602
4713LM	13	2"	50.0	20.4	20.4	8.3	II	59	0.13	602
4714LM	14	2"	50.0	20.4	20.4	8.3	II	67	0.15	602
4715LM	15	2"	50.0	21.0	21.0	6.8	II	68	0.15	602
4716LM	16	2"	50.0	22.0	22.0	8.2	II	84	0.18	602
4718LM	18	2"	50.0	22.0	22.0	8.2	II	84	0.18	602



STANDARDS:
ASME/ANSI B 107.4



3

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URREA Tools are designed to offer precision, quality, and strength. They are made by highly skilled and trained personnel, using the most sophisticated equipment, the best materials available and under the strictest specifications.



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













Phone: (210) 734-8703 / (800) 366-6911

SET OF 6-POINT AND 12-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" DRIVE

5003B

27 PIECES

SET OF 27 12-POINT AND 6-POINT SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, WITH ACCESSORIES, COMBINATION WRENCHES AND PLIERS, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5212H	3/8"	 5220	5/8"	 5014H	7/16"	 502050	For 5/8" sparkplug with neoprene
 5214H	7/16"	 5222	11/16"	 5016H	1/2"	 5249	24 teeth, 7"
 5216H	1/2"	 5224	3/4"	 5018H	9/16"	 9604	4"
 5218H	9/16"	 5226	13/16"	 5020H	5/8"		
 5228	7/8"	 5228	7/8"			 5260	3"
 5230	15/16"	 5230	15/16"			 5495	49.5 x 22.0 x 4.5 cm
 5232	1"	 5232	1"				
CODE	DESCRIPTION	CODE	SIZE	CODE	DESCRIPTION		
 9684	No. 2 4 1/4"	 1214	7/16"	 5260	3"		
 226G	6 3/4"	1216	1/2"				
 276	6"	1218	9/16"				
		1220	5/8"				
		1224	3/4"				


























SET OF 12-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" DRIVE

52136

22 PIECES

SET OF 22 12-POINT STANDARD AND DEEP SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX











CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5212	3/8"	 5012	3/8"	 5249	24 teeth, 7"
 5214	7/16"	 5014	7/16"	 5260	3"
 5216	1/2"	 5016	1/2"	 526006	6"
 5218	9/16"	 5018	9/16"	 5270	1 15/16"
 5220	5/8"	 5220	5/8"	 5396	38.0 x 17.0 x 5.0 cm
 5222	11/16"	 5022	11/16"		
 5224	3/4"	 5024	3/4"		
 5226	13/16"	 5026	13/16"		
 5228	7/8"	 5028	7/8"		



5200AC

18 PIECES

SET OF 18 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
 5208	1/4"	5222	11/16"	 3/8" 5249	24 teeth, 7"	 3/8" 5270	1 15/16"
5210	5/16"	5224	3/4"	 3/8" 5260	3"	 3/8" 5280	16 1/2"
5212	3/8"	5226	13/16"	 3/8" 5262	12"	 3/8" 5496	46.5 x 14.5 x 9.0 cm
 5214	7/16"	5228	7/8"	 3/8" 5265	7 15/16"		
5216	1/2"	5230	15/16"				
5218	9/16"						
 3/8" 5220	5/8"						








3

52124

13 PIECES

SET OF 13 12-POINT SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, ON RAIL AND CLIPS







CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5208	1/4"	5222	11/16"	 2585	Rail for clips and sockets, 9"
5210	5/16"	5224	3/4"	 3/8" 2591	Socket clips
5212	3/8"	5226	13/16"		
 5214	7/16"	5228	7/8"		
5216	1/2"	5230	15/16"		
5218	9/16"	5232	1"		
 3/8" 5220	5/8"				



52130

12 PIECES

SET OF 12 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX








CODE	SIZE	CODE	DESCRIPTION
 5212	3/8"	 3/8" 5249	24 teeth, 7"
5214	7/16"	 3/8" 5260	3"
5216	1/2"	526006	6"
5218	9/16"	 4725	24.5 x 11.0 x 4.0 cm
 5220	5/8"		
5222	11/16"		
5224	3/4"		
 3/8" 5226	13/16"		
5228	7/8"		



JBUA02S

10 PIECES

SET OF 10 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" DRIVE, IN BLISTER PACK






CODE	SIZE	CODE	DESCRIPTION
 5212	3/8"	 3/8" 5249	24 teeth, 7"
5214	7/16"	 3/8" 5260	3"
5216	1/2"	 2585	Rail for clips and sockets, 9"
5218	9/16"	 3/8" 2591	Socket clips
 5220	5/8"		
5222	11/16"		
5224	3/4"		
 5226	13/16"		
5228	7/8"		



52118

10 PIECES

SET OF 10 12-POINT SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5210	5/16"	 2585	5/8"		Rail for clips and sockets, 9"
 5212	3/8"	5222	11/16"	 3/8" 2591	Socket clips
5214	7/16"	5224	3/4"		
 5216	1/2"	5226	13/16"		
5218	9/16"	5228	7/8"		


















SET OF 6-POINT HAND SOCKETS IN FRACTIONAL AND METRIC SIZES WITH ACCESSORIES, 3/8" DRIVE

5200B

48 PIECES

SET OF 48 6-POINT SOCKETS IN FRACTIONAL AND METRIC SIZES WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5208H	1/4"	 5012H	3/8"	 5206HM	6 mm	 5010HM	10 mm	 3/8" 5252A	7" 45 teeth
5210H	5/16"	5014H	7/16"	5207HM	7 mm	5011HM	11 mm		
5212H	3/8"	5016H	1/2"	5208HM	8 mm	5012HM	12 mm	 3/8" 5260	3"
5214H	7/16"	5018H	9/16"	5209HM	9 mm	5013HM	13 mm	 3/8" 5260-06	6"
5216H	1/2"	5020H	5/8"	 5210HM	10 mm	5014HM	14 mm		
 5218H	9/16"	 5022H	11/16"	 3/8" 5211HM	11 mm	 5015HM	15 mm		
5220H	5/8"	5024H	3/4"	5212HM	12 mm	5016HM	16 mm		
5222H	11/16"	 3/8" 5026H	13/16"	5213HM	13 mm	 3/8" 5017HM	17 mm		
5224H	3/4"	5028H	7/8"	5214HM	14 mm	5018HM	18 mm		
5226H	13/16"			5215HM	15 mm	5019HM	19 mm		
5228H	7/8"			5216HM	16 mm			 5495	49.6 X 22 X 5 cms
				5217HM	17 mm				
				5218HM	18 mm				
				5219HM	19 mm				



SET OF 6-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" DRIVE

5200CL

24 PIECES

SET OF 24 6-POINT STANDARD AND DEEP SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
5014H	7/16"	5210H	5/16"	5026HPA	13/16" w/neoprene	5270	1 15/16"
5016H	1/2"	5212H	3/8"	5249	24 teeth, 7"	5496	46.5 x 14.5 x 9.0 cm
5018H	9/16"	5214H	7/16"	5260	3"		
5020H	5/8"	5216H	1/2"	5261	8"		
5022H	11/16"	5218H	9/16"	5265	7 13/16"		
5024H	3/4"	5220H	5/8"				
5026H	13/16"	5222H	11/16"				
5028H	7/8"	5224H	3/4"				
		5226H	13/16"				
		5228H	7/8"				



52134

22 PIECES

SET OF 22 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX






CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
5212H	3/8"	5222H	11/16"	5012H	3/8"	5022H	11/16"	5249	24 teeth, 7"	5396	38.0 x 17.0 x 5.0 cm
5214H	7/16"	5224H	3/4"	5014H	7/16"	5024H	3/4"	5260	3"		
5216H	1/2"	5226H	13/16"	5016H	1/2"	5026H	13/16"	526006	6"		
5218H	9/16"	5228H	7/8"	5018H	9/16"	5028H	7/8"	5270	1 15/16"		
5220H	5/8"			5220H	5/8"						



52126

13 PIECES

SET OF 13 6-POINT SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, ON RAIL AND CLIPS







CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5208H	1/4"	5222H	11/16"	 2585	Rail for clips and sockets, 9"
5210H	5/16"	5224H	3/4"	 2591	Socket clips
5212H	3/8"	5226H	13/16"		
 5214H	7/16"	5228H	7/8"		
5216H	1/2"	5230H	15/16"		
 5218H	9/16"	5232H	1"		
5220H	5/8"				



52128

12 PIECES

SET OF 12 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX






CODE	SIZE	CODE	DESCRIPTION
 5212H	3/8"	 5249	24 teeth, 7"
5214H	7/16"	 5260	3"
5216H	1/2"		
5218H	9/16"	 4725	24.5x11.0x4.0 cm
 5220H	5/8"		
5222H	11/16"		
5224H	3/4"		
 5226H	13/16"		
5228H	7/8"		



52122

10 PIECES

SET OF 10 6-POINT SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, ON RAIL AND CLIPS






CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5210H	5/16"	5220H	5/8"	 2585	Rail for clips and sockets, 9"
 5212H	3/8"	5222H	11/16"	 2591	Socket clips
5214H	7/16"	5224H	3/4"		
5216H	1/2"	5226H	13/16"		
 5218H	9/16"	5228H	7/8"		



S02HS

8 PIECES

SET OF 8 6-POINT SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5212H	3/8"	5220H	5/8"	 2585	Rail for clips and sockets, 9"
 5214H	7/16"	5222H	11/16"	 2591	Socket clips
5216H	1/2"	5224H	3/4"		
 5218H	9/16"	5226H	13/16"		








SETS OF 12-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE

52112

13 PIECES

SET OF 13 12-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, ON RAIL AND CLIPS






CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5008	1/4"	5022	11/16"	 2585	Rail for clips and sockets, 9"
5010	5/16"	5024	3/4"	 2591	Socket clips
5012	3/8"	5026	13/16"		
 5014	7/16"	5028	7/8"		
5016	1/2"	5030	15/16"		
5018	9/16"	5032	1"		
 5020	5/8"				



52107

10 PIECES

SET OF 10 12-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5010	5/16"	5020	5/8"	 2585	Rail for clips and sockets, 9"
5012	3/8"	5022	11/16"	 2591	Socket clips
5014	7/16"	5024	3/4"		
 5016	1/2"	5026	13/16"		
5018	9/16"	5028	7/8"		
 5020	5/8"				








SETS OF 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE

52114

13 PIECES

SET OF 13 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, ON RAIL AND CLIPS





CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5008H	1/4"	5022H	11/16"	 2585	Rail for clips and sockets, 9"
5010H	5/16"	5024H	3/4"	 2591	Socket clips
5012H	3/8"	5026H	13/16"		
 5014H	7/16"	5028H	7/8"		
5016H	1/2"	5030H	15/16"		
5018H	9/16"	5032H	1"		
 5020H	5/8"				



52111

10 PIECES

SET OF 10 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5010H	5/16"	5020H	5/8"	 2585	Rail for clips and sockets, 9"
5012H	3/8"	5022H	11/16"	 2591	Socket clips
5014H	7/16"	5024H	3/4"		
 5016H	1/2"	5026H	13/16"		
5018H	9/16"	5028H	7/8"		















SET OF 12-POINT METRIC HAND SOCKETS WITH ACCESSORIES, 3/8" DRIVE

52222

29 PIECES

SET OF 29 12-POINT METRIC STANDARD AND DEEP SOCKETS WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX






CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
 5208M	8 mm	5215M	15 mm	 5009M	9 mm	5015M	15 mm	 3/8" 5249	24 teeth, 7"	 3/8" 5270	1 15/16"
5209M	9 mm	5216M	16 mm	5010M	10 mm	5016M	16 mm	 3/8" 5260	3"	 5495	49.5 x 22.0 x 4.5 cm
5210M	10 mm	5217M	17 mm	5011M	11 mm	5017M	17 mm	 3/8" 526006	6"		
 5211M	11 mm	5218M	18 mm	 5012M	12 mm	5018M	18 mm	 3/8" 5265	7 13/16"		
5212M	12 mm	5219M	19 mm	5013M	13 mm	5019M	19 mm				
 5213M	13 mm	5220M	20 mm	 5014M	14 mm						
5214M	14 mm										



52215

21 PIECES

SET OF 21 12-POINT METRIC SOCKETS, 3/8" DRIVE, ON RAIL AND CLIPS











CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5206M	6 mm	5213M	13 mm	5220M	20 mm	 2585	Rail for clips and sockets, 9"
5207M	7 mm	5214M	14 mm	5221M	21 mm	 2591	Socket clips
5208M	8 mm	5215M	15 mm	5222M	22 mm		
 5209M	9 mm	5216M	16 mm	5223M	23 mm		
5210M	10 mm	5217M	17 mm	5224M	24 mm		
 5211M	11 mm	5218M	18 mm	5225M	25 mm		
5212M	12 mm	5219M	19 mm	5226M	26 mm		

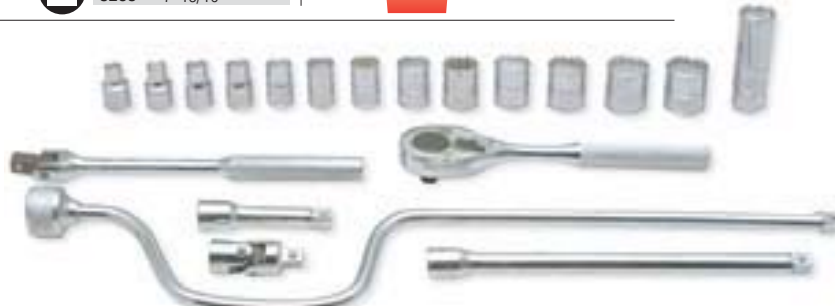


5200M

20 PIECES

SET OF 20 12-POINT METRIC SOCKETS WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX







CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
 5207M	7 mm	5214M	14 mm	 3/8" 502050	5/8" w/neoprene	 3/8" 5270	1 15/16"
5208M	8 mm	5215M	15 mm	 3/8" 5249	24 teeth, 7"	 3/8" 5280	16 1/2"
5209M	9 mm	5216M	16 mm	 3/8" 5260	3"	 5496	46.5x14.5x9.0 cm
 5210M	10 mm	5217M	17 mm	5261	8"		
5211M	11 mm	5218M	18 mm	 3/8" 5265	7 13/16"		
5212M	12 mm	5219M	19 mm				
 5213M	13 mm						



52218

16 PIECES

SET OF 16 12-POINT METRIC SOCKETS WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5206M	6 mm	5213M	13 mm	 3/8" 5249	24 teeth, 7"
5207M	7 mm	5214M	14 mm	 3/8" 526006	6"
5208M	8 mm	5215M	15 mm	 4725	24.5x11.0x4.0 cm
 5209M	9 mm	5216M	16 mm		
5210M	10 mm	5217M	17 mm		
 5211M	11 mm	5218M	18 mm		
5212M	12 mm	5219M	19 mm		








3

52216

12 PIECES

SET OF 12 12-POINT METRIC SOCKETS, 3/8" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5208M	8 mm	5214M	14 mm	 2585	Rail for clips and sockets, 9"
5209M	9 mm	5215M	15 mm	 2591	Socket clips
 5210M	10 mm	5216M	16 mm		
5211M	11 mm	5217M	17 mm		
 5212M	12 mm	5218M	18 mm		
5213M	13 mm	5219M	19 mm		








SET OF 12-POINT DEEP METRIC SOCKETS, 3/8" DRIVE

52209

11 PIECES

SET OF 11 12-POINT DEEP METRIC SOCKETS, 3/8" DRIVE, ON RAIL AND CLIPS








CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5009M	9 mm	5015M	15 mm	 2585	Rail for clips and sockets, 9"
5010M	10 mm	5016M	16 mm	 2591	Socket clips
 5011M	11 mm	5017M	17 mm		
5012M	12 mm	5018M	18 mm		
 5013M	13 mm	5019M	19 mm		
5014M	14 mm				



JBUA02M

10 PIECES

SET OF 10 12-POINT METRIC SOCKETS WITH ACCESSORIES, 3/8" DRIVE, IN BLISTER PACK

CODE	SIZE	CODE	DESCRIPTION
 5210M	10 mm	 3/8" 5249	24 teeth, 7"
5211M	11 mm	 3/8" 5260	3"
5212M	12 mm	 2585	Rail for clips and sockets, 9"
5213M	13 mm	 2591	Socket clips
 5214M	14 mm		
5215M	15 mm		
5216M	16 mm		
 5217M	17 mm		
5219M	19 mm		

































SET OF 6-POINT METRIC HAND SOCKETS WITH ACCESSORIES, 3/8" DRIVE

52220

29 PIECES

SET OF 29 6-POINT METRIC STANDARD AND DEEP SOCKETS WITH ACCESSORIES, 3/8" DRIVE, IN METAL BOX
























CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
 5208HM	8 mm	 5008HM	8 mm	 5249	24 teeth, 7"	 5265	7 13/16"
 5209HM	9 mm	 5009HM	9 mm	 5260	3"	 5270	1 15/16"
 5210HM	10 mm	 5010HM	10 mm	 526006	6"	 5495	49.5 x 22.0 x 4.5 cm
 5211HM	11 mm	 5011HM	11 mm				
 5212HM	12 mm	 5012HM	12 mm				
 5213HM	13 mm	 5013HM	13 mm				
 5214HM	14 mm	 5014HM	14 mm				
 5215HM	15 mm	 5015HM	15 mm				
 5216HM	16 mm	 5016HM	16 mm				
 5217HM	17 mm	 5017HM	17 mm				
 5218HM	18 mm	 5018HM	18 mm				
 5219HM	19 mm	 5019HM	19 mm				



52211

21 PIECES

SET OF 21 6-POINT METRIC SOCKETS, 3/8" DRIVE, ON RAIL AND CLIPS















CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5206HM	6 mm	 5213HM	13 mm	 5220HM	20 mm	 2585	Rail for clips and sockets, 9"
 5207HM	7 mm	 5214HM	14 mm	 5221HM	21 mm	 2591	Socket clips
 5208HM	8 mm	 5215HM	15 mm	 5222HM	22 mm		
 5209HM	9 mm	 5216HM	16 mm	 5223HM	23 mm		
 5210HM	10 mm	 5217HM	17 mm	 5224HM	24 mm		
 5211HM	11 mm	 5218HM	18 mm	 5225HM	25 mm		
 5212HM	12 mm	 5219HM	19 mm	 5226HM	26 mm		



52212

12 PIECES

SET OF 12 6-POINT METRIC SOCKETS, 3/8" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5208HM	8 mm	 5214HM	14 mm	 2585	Rail for clips and sockets, 9"
 5209HM	9 mm	 5215HM	15 mm	 2591	Socket clips
 5210HM	10 mm	 5216HM	16 mm		
 5211HM	11 mm	 5217HM	17 mm		
 5212HM	12 mm	 5218HM	18 mm		
 5213HM	13 mm	 5219HM	19 mm		



S02HM

8 PIECES

SET OF 8 6-POINT METRIC SOCKETS, 3/8" DRIVE, ON RAIL AND CLIPS

	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	5210HM	10 mm	5214HM	14 mm	2585	Rail for clips and sockets, 9"
	5211HM	11 mm	5215HM	15 mm	2591	Socket clips
	5212HM	12 mm	5217HM	17 mm		
	5213HM	13 mm	5219HM	19 mm		



3

SET OF 6-POINT DEEP METRIC SOCKETS, 3/8" DRIVE

52203

18 PIECES

SET OF 18 6-POINT DEEP METRIC SOCKETS, 3/8" DRIVE, ON RAIL AND CLIPS

	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	5006HM	6 mm	5015HM	15 mm	2585	Rail for clips and sockets, 9"
	5007HM	7 mm	5016HM	16 mm	2591	Socket clips
	5008HM	8 mm	5017HM	17 mm		
	5009HM	9 mm	5018HM	18 mm		
	5010HM	10 mm	5019HM	19 mm		
	5011HM	11 mm	5020HM	20 mm		
	5012HM	12 mm	5021HM	21 mm		
	5013HM	13 mm	5022HM	22 mm		
	5014HM	14 mm	5023HM	23 mm		



52205

12 PIECES

SET OF 12 6-POINT DEEP METRIC SOCKETS, 3/8" DRIVE, ON RAIL AND CLIPS

	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	5008HM	8 mm	5014HM	14 mm	2585	Rail for clips and sockets, 9"
	5009HM	9 mm	5015HM	15 mm	2591	Socket clips
	5010HM	10 mm	5016HM	16 mm		
	5011HM	11 mm	5017HM	17 mm		
	5012HM	12 mm	5018HM	18 mm		
	5013HM	13 mm	5019HM	19 mm		



SET OF 3/8" SOCKETS AND ACCESSORIES FOR TUNE-UP

52096

3 PIECES

SET OF 3 5/8" SPARKPLUG SOCKETS AND ACCESSORIES, 3/8" DRIVE, IN BLISTER PACK

	CODE	DESCRIPTION	CODE	DESCRIPTION
	5252A	45 teeth, 3/8"	502050	5/8" w/neoprene
	5260	3"		



52098

3 PIECES

SET OF 3 13/16" SPARKPLUG SOCKETS AND ACCESSORIES, 3/8" DRIVE, IN BLISTER PACK

	CODE	DESCRIPTION	CODE	DESCRIPTION
	5252A	45 teeth, 3/8"	5026HPA	13/16" w/neoprene
	5260	3"		







SET OF SOCKETS WITH TIPS, 3/8" DRIVE

52ET14

14 PIECES

SET OF 7 SOCKETS WITH TORX TIPS, 3/8" DRIVE, ON RAIL AND CLIPS





	SIZE	SIZE	SIZE	SIZE	DESCRIPTION
	E20	E12	T30	3/8x1/4	 Rail for clips and sockets, 9"  Socket clips  3/8"
	E18	E11	T40		
	E16	E10	T45		
	E14				



5239C

9 PIECES

SET OF 9 SOCKETS WITH TORX TIPS, T10 TO T50, WITH 3/8" DRIVE ON RAIL AND CLIPS





	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	523910W	T10	523930W	T30	 2584 Rail for clips and sockets, 6"  2591 Socket clips  3/8"	
	523915W	T15	523940W	T40		
	523920W	T20	523945W	T45		
	523925W	T25	523950W	T50		
	523927W	T27				



49907

7 PIECES

SET OF 7 SOCKETS WITH HEX TIPS, 1/8" TO 3/8", 3/8" DRIVE, ON RAIL AND CLIPS





	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	4990-1/8	1/8"	4990-1/4	1/4"	 2585 Rail for clips and sockets, 9"  2591 Socket clips  3/8"	
	4990-5/32	5/32"	4990-5/16	5/16"		
	4990-3/16	3/16"	4990-3/8	3/8"		
	4990-7/32	7/32"				



4990M6

6 PIECES

SET OF SIX METRIC SOCKETS WITH HEX TIPS, 4-10 mm, 3/8" DRIVE, ON RAIL AND CLIPS

	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	49904M	4 mm	49907M	7 mm	 2585 Rail for clips and sockets, 9"  2591 Socket clips  3/8"	
	49905M	5 mm	49908M	8 mm		
	49906M	6 mm	499010M	10 mm		



REVERSIBLE RATCHET HANDLES, 3/8" DRIVE

Ratchet handles are used with sockets; the ratchet is the lever arm that lets you apply torque through the socket attached to it. The reversible mechanism lets you turn the socket in both directions, for tightening and loosening. The design and dimensions of 3/8" ratchet handles are ideal for automotive maintenance and general mechanical work, where there is not a lot of space available for working and the torque requirements are not very high. The maximum recommended torque for a 3/8" ratchet handle is 1800 in-lbs.

The QUICK RELEASE system has been added to the traditional pear-head ratchet mechanism, so you can attach and remove sockets and accessories effortlessly. This is especially important when working with greases and oils that make sockets and accessories slippery, so that it becomes very difficult to remove them from the ratchet drive. With this system, you just push the button on the back of the ratchet head and the socket or accessory drops off.

3

5249G REVERSIBLE OFFSET RATCHET HANDLE, 72 TEETH



CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5249G	3/8"	9.5	8"	203.2	234	0.515	72

STANDARDS: FEDERAL GGG-W-641, ASME B 107.10M, ISO 3315, SAE AS4283, DIN 3123



Quadruple mechanism uses a toothed cam that maintains contact with four gear teeth when torque is applied.

5-degree swing arc

Ergonomic

Poly propylene cover.



Quick Release system.

Impact resistance.

524947N REVERSIBLE DOUBLE DRIVE PEAR-HEAD RATCHET HANDLE, 24 TEETH



CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
524947N	3/8" and 1/4"	9.5 and 6.3	7"	178	275	0.6063	24

STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B 107.4M, ISO 3315, SAE AS4283, DIN 3123



Double drive (2 in 1).

5249Q QUICK RELEASE REVERSIBLE PEAR-HEAD RATCHET HANDLE, 24 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5249Q	3/8"	9.5	7"	178.8	270	0.595	24

STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B107.4, ISO 3315, SAE AS4283, DIN 3123



Narrow head for access to tight spaces.



Code 5249Q

Reversible pear-head ratchet, 24 teeth, 3/8" x 7", Quick Release.

Socket driver tool that permits rapid tightening of nuts and bolts. They are reversible because you can use or rotate their mechanisms in both directions, and their Quick Release design makes it easy to remove the socket or accessory from the ratchet handle's drive, just by pressing the button on the back of the ratchet head. This is very useful when you have grease or oil on your hands and have difficulty gripping the socket or accessory.

5249H RUBBER GRIP HANDLE REVERSIBLE PEAR-HEAD RATCHET HANDLE, 24 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5249Q	3/8"	9.5	7"	178.8	278	0.612	1800



RUBBER GRIP

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123

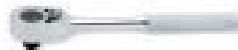


Gear with 24 teeth and 15-degree swing arc.

5249N REVERSIBLE PEAR-HEAD RATCHET HANDLE, 30 TEETH



CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5249N	3/8"	9.5	7 3/8"	187.3	150	0.330	1800



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123



Handle has more contact surface for easier changes in rotation direction.

Gear with 30 teeth and 12-degree swing arc.

Double-ratchet mechanism uses a toothed cam that maintains contact with two gear teeth when torque is applied.

5249 REVERSIBLE PEAR-HEAD RATCHET HANDLE, 24 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5249	3/8"	9.5	7"	178.8	278	0.612	1800



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123



Traditional ratchet mechanism design with alloyed steel bolts, heat-treated in controlled-atmosphere furnaces to guarantee high strength and wear-resistance.

5249B BLACK REVERSIBLE PEAR-HEAD RATCHET HANDLE, 24 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5249B	3/8"	9.5	7"	178.8	278	0.612	1800



BLACK

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123



Traditional ratchet mechanism design with alloyed steel bolts, heat-treated in controlled-atmosphere furnaces to guarantee high strength and wear-resistance.

5252A REVERSIBLE ROUND-HEAD RATCHET HANDLE, 45 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5252A	3/8"	9.5	7 3/4"	196.8	155	0.341	1800



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123



Precision-machined gear on internal head wall, with total of 45 teeth and 8-degree swing arc.

Smaller round head for access to tight spaces.

Internal mechanism assembled as one PIECES held by a retaining ring, which eliminates the use of screws.

52XXXRK REPLACEMENT PARTS FOR REVERSIBLE RATCHET HANDLE, 3/8" DRIVE

CODE	DESCRIPTION
5252ARK	Set of replacement parts for ratchet handle code: 5252A
5249NRK	Set of replacement parts for ratchet handle code: 5249N
5249QRK	Set of replacement parts for ratchet handle code: 5249Q
5249RK	Set of replacement parts for ratchet handle code: 5249H and 5249



HINGE HANDLES 3/8" DRIVE

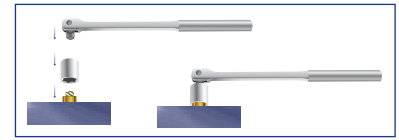
This is a lever arm with a drive that rotates 180 degrees so you can apply torque with different angles of attack. The maximum recommended torque for a 3/8" hinge handle is 1200 in-lbs.

5265X

CODE	DRIVE SIZE		LENGTH		RESISTANCE		ASME/ANSI B 107.10M
	in	mm	in	mm	grs	lbs	
5265	3/8"	9.5	7 15/16"	201.6	180	0.396	1200
5265H	3/8"	9.5	7 15/16"	201.6	199	0.438	1200

Rubber Grip Handle

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123



5265



5265H

5265RK

REPLACEMENT PARTS FOR HINGE HANDLE, 3/8" DRIVE

CODE	DESCRIPTION
5265RK	Set of replacement parts for hinge handle codes: 5265 and 5265H



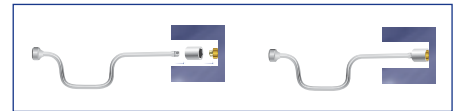
SPEED HANDLE, 3/8" DRIVE

This is a handle used to turn sockets or adapters with 3/8" drive; it consists of a bar with an eccentric bend and a rotating end knob, and is very useful in automotive engine repair and maintenance work. The maximum recommended torque for a 3/8" speed handle is 475 in-lbs.

5280

CODE	SIZE		LENGTH		RESISTANCE		ASME/ANSI B 107.10M
	in	mm	in	mm	grs	lbs	
5280	3/8"	9.5	16 1/2"	419.1	361	0.795	475

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123



SLIDING BAR, 3/8" DRIVE

This is a lever arm with a drive that slides on the bar, so you can vary the distance between the socket's rotation center and the end where torque is applied. You can also position the drive in the center of the bar and use both hands to apply force. The maximum recommended torque for a 3/8" sliding bar is 1000 in-lbs.

5285

CODE	DRIVE SIZE		LENGTH		RESISTANCE		ASME/ANSI B 107.10M
	in	mm	in	mm	grs	lbs	
5285	3/8"	9.5	8"	203.2	145	0.319	1000

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123



FLEXIBLE ROD

5268

CODE	DRIVE SIZE		TOTAL LENGTH		ROD LENGTH		RESISTANCE
	in	mm	in	mm	in	mm	
5268	3/8"	9.5	8	203.2	5	127	110 0.24

STANDARDS: FEDERAL GGG-W-641
ASME B107.10M
ISO 3315, SAE AS4283, DIN 3123



Flexible rod for narrow spaces. The flexible steel cable of the rod is ideal for right and left turns.

EXTENSIONS QUICK RELEASE, 3/8" DRIVE

One-PIECES extension design
Provides positive socket retention
Use where accidental socket disengagement may be a concern or safety hazard



5260QR

526XXQR

CODE	DRIVE SIZE		LENGTH		RESISTANCE ASME/ANSI B 107.10M	
	in	mm	in	mm	grs	lbs
5260QR	3/8"	9.5	3"	76.2	276	89
526006QR	3/8"	9.5	6"	152.4	155	50
5263QR	3/8"	9.5	10"	254	46	15

STANDARDS: FEDERAL GGG-W-641E
ASME/ANSI B107.10M

EXTENSIONS WOBBLE 3/8" DRIVE



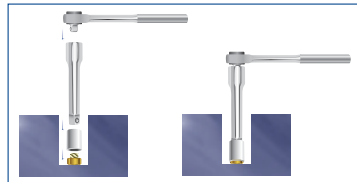
526006W

526XXW

CODE	DRIVE SIZE		LENGTH		RESISTANCE ASME/ANSI B 107.10M	
	in	mm	in	mm	lb	grs
5260W	3/8"	9.5	3"	77	72	0.158
526006W	3/8"	9.5	6"	152	146	0.321

EXTENSIONS, 3/8" DRIVE

This accessory lets you work on screws in tight or deep spaces where a ratchet handle head can't reach; available in a variety of lengths. The maximum recommended torque for a 3/8" extension of any length is 1200 in-lbs.



5260



526006



5261



5262



5263



5264

526X

CODE	DRIVE SIZE		LENGTH		RESISTANCE ASME/ANSI B 107.10M	
	in	mm	in	mm	grs	lbs
5260	3/8"	9.5	3"	76.2	78	0.171
526006	3/8"	9.5	6"	153.0	85	0.187
5261	3/8"	9.5	8"	203.2	87	0.191
5262	3/8"	9.5	12"	304.8	171	0.376
5263	3/8"	9.5	18"	457.2	256	0.565
5264	3/8"	9.5	24"	609.6	342	0.754

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123

UNIVERSAL JOINT, 3/8" DRIVE

This accessory makes the advantages of a hinge handle available to any fixed handle, such as a ratchet or sliding bar, so you can access nuts or bolts at a variety of angles. The maximum recommended torque for a 3/8" universal joint is 750 in-lbs.

5270

CODE	DRIVE SIZE		LENGTH		RESISTANCE ASME/ANSI B 107.10M	
	in	mm	in	mm	grs	lbs
5270	3/8"	9.5	1 15/16"	49.2	45	0.099



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123



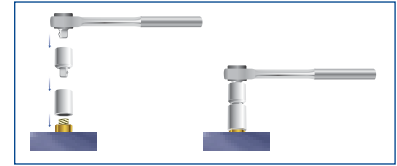
ADAPTERS, 3/8" DRIVE

These accessories let you work with 1/4" or 1/2" square drive sockets using 3/8" handles. The maximum recommended torque for adapters with 3/8" female drive and 1/4" male drive is 450 in-lbs. The maximum recommended torque for adapters with 3/8" female drive and 1/2" male drive is 2000 in-lbs.

525X

CODE	SIZE		LENGTH		RESISTANCE ASME/ANSI B 107.10M		
	in	mm	in	mm	grs	lbs	
5256	1/4" F x 3/8" M	6.3 F x 9.5 M	1 5/32"	35.7	34	0.074	450
5255	3/8" F x 1/4" M	9.5 F x 6.3 M	1 13/32"	29.3	58	0.127	450
5253	3/8" F x 1/2" M	9.5 F x 12.7 M	1"	25.4	28	0.061	2000
5254	1/2" F x 3/8" M	12.7 F x 9.5 M	1 5/16"	23.8	15	0.033	2000

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS4283, DIN 3123



3



5256



5255



5253



5254

SET OF CROW FOOT WRENCHES, 3/8" DRIVE

4900-10

10 PIECES

SET OF 10 CROW FOOT WRENCHES, 3/8" DRIVE

CODE	SIZE	CODE	SIZE
4912	3/8"	4922	11/16"
4914	7/16"	4924	3/4"
4916	1/2"	4926	13/16"
4918	9/16"	4928	7/8"
4920	5/8"	4932	1"



CROW FOOT WRENCH, 3/8" DRIVE

5249XRK

CROW FOOT WRENCH FRACTIONAL, 3/8" DRIVE

CODE	B		C		A		D		RESISTANCE			
	Socket size	Drive	in	mm	in	mm	in	mm	grs	lbs		
4912	3/8"	3/8"	1.04	27	0.21	5.29	0.80	20.35	0.63	15.95	13	0.028
4914	7/16"	3/8"	1.18	30	0.23	5.8	1.06	18.5	0.73	18.62	20	0.044
4916	1/2"	3/8"	1.48	38	0.24	6.1	1.06	27.0	0.73	18.62	29	0.063
4918	9/16"	3/8"	1.60	41	0.27	6.9	1.22	31.08	0.73	18.45	38	0.083
4920	5/8"	3/8"	1.63	41	0.28	7.06	1.34	34.15	0.74	18.80	42	0.092
4922	11/16"	3/8"	1.73	44	0.29	7.3	1.45	36.84	0.80	20.28	52	0.114
4924	3/4"	3/8"	1.88	48	0.34	8.52	1.59	40.42	0.78	19.84	69	0.152
4926	13/16"	3/8"	1.95	50	0.33	8.28	1.70	43.15	0.80	20.23	73	0.161
4928	7/8"	3/8"	2.07	53	0.39	10	1.84	46.7	0.82	20.91	97	0.213
4932	1"	3/8"	2.16	55	0.41	10.3	2.04	51.7	0.80	20.30	117	0.258



5249XRK

CROW FOOT WRENCH METRICS, 3/8" DRIVE

CODE	B		C		A		D		RESISTANCE			
	Socket size	Drive	in	mm	in	mm	in	mm	grs	lbs		
4910M	10 mm	3/8"	1.04	27	0.21	5.41	0.82	20.7	0.65	16.5	14	0.03
4911M	11 mm	3/8"	1.23	31	0.22	5.63	0.92	23.32	0.72	18.37	20	0.044
4912M	12 mm	3/8"	1.48	38	0.23	5.80	1.06	26.96	0.73	18.5	28	0.061
4913M	13 mm	3/8"	1.48	38	0.23	5.72	1.06	26.94	0.73	18.5	27	0.059
4914M	14 mm	3/8"	1.59	41	0.28	7	1.20	30.57	0.72	18.25	38	0.083
4915M	15 mm	3/8"	1.61	41	0.28	7	1.20	30.57	0.72	18.25	37	0.081
4916M	16 mm	3/8"	1.64	42	0.29	7.37	1.33	33.9	0.74	18.81	43	0.094
4917M	17 mm	3/8"	1.71	43	0.30	7.70	1.45	36.9	0.81	20.5	57	0.125
4918M	18 mm	3/8"	1.85	47	0.32	8.17	1.57	39.9	0.76	19.36	68	0.149
4919M	19 mm	3/8"	1.86	47	0.30	7.70	1.59	40.3	0.77	19.5	63	0.138
4921M	21 mm	3/8"	1.97	50	0.34	8.58	1.70	43.3	0.79	20.16	78	0.171
4922M	22 mm	3/8"	1.70	50	0.34	8.58	1.98	43.3	0.79	20.16	97	0.213



The line of 3/8" sockets is used primarily for automotive maintenance and general mechanical work, where there is not a lot of work space available and the torque requirements are not very high. They have the following ranges of application:
 Socket opening size: 1/4"-1" and 6-26 mm.
 Torque applications for sockets, handles, and accessories: from 270 to 2200 in-lbs.
 To keep your sockets and accessories neat and orderly, we recommend using the various organization and storage options presented in section 2 of this catalog.

12-POINT SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE

52XX



TYPE I



TYPE II

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END in	SQUARE END in			grs	lbs	lb-in
5208	1/4"	6.3	1 1/8"	30.0	7/16"	11/16"	5/16"	I	19	0.04	270
5210	5/16"	7.9	1 1/8"	30.0	7/16"	11/16"	5/16"	I	20	0.04	440
5211	11/32"	8.7	1 1/8"	30.0	1/2"	11/16"	5/16"	I	20	0.04	550
5212	3/8"	9.5	1 1/8"	30.0	9/16"	11/16"	5/16"	I	21	0.05	660
5214	7/16"	11.1	1 1/8"	30.0	5/8"	11/16"	5/16"	I	23	0.05	930
5216	1/2"	12.7	1 1/8"	28.6	3/4"	3/4"	5/16"	II	28	0.06	1240
5217	17/32"	13.5	1 1/8"	28.6	3/4"	3/4"	5/16"	II	38	0.08	1425
5218	9/16"	14.3	1 1/8"	28.6	3/4"	3/4"	1/2"	II	42	0.09	1610
5219	19/32"	15.1	1 1/8"	28.6	13/16"	7/8"	1/2"	II	53	0.12	1805
5220	5/8"	15.9	1 3/16"	30.0	7/8"	7/8"	1/2"	II	53	0.12	2000
5222	11/16"	17.4	1 3/16"	30.0	15/16"	15/16"	1/2"	II	55	0.12	2200
5224	3/4"	19.1	1 3/16"	30.0	15/16"	1"	9/16"	II	66	0.15	2200
5225	25/32"	19.8	1 1/4"	30.2	11/16"	1 1/16"	9/16"	II	71	0.16	2200
5226	13/16"	20.6	1 1/4"	31.8	1 1/8"	1 1/8"	9/16"	II	71	0.16	2200
5228	7/8"	22.2	1 1/4"	31.8	1 3/16"	1 3/16"	9/16"	II	74	0.16	2200
5230	15/16"	23.8	1 1/4"	31.8	1 1/4"	1 1/4"	9/16"	II	140	0.31	2200
5232	1"	25.4	1 1/4"	30.0	1 5/16"	1 5/16"	9/16"	II	150	0.33	2200



STANDARDS: FEDERAL GGG-W-641
 ASME/ANSI B107.4
 ISO 3315, SAE AS 4283, DIN 3123

6-POINT SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE

52XXH



TYPE I



TYPE II

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END in	SQUARE END in			grs	lbs	lb-in
5208H	1/4"	6.3	1 1/8"	30.0	7/16"	11/16"	5/16"	I	19	0.04	270
5210H	5/16"	7.9	1 1/8"	30.0	7/16"	11/16"	5/16"	I	20	0.04	440
5212H	3/8"	9.5	1 1/8"	30.0	9/16"	11/16"	5/16"	I	21	0.05	660
5214H	7/16"	11.1	1 1/8"	30.0	5/8"	11/16"	5/16"	I	23	0.05	930
5216H	1/2"	12.7	1 1/8"	28.6	3/4"	3/4"	5/16"	II	28	0.06	1240
5218H	9/16"	14.3	1 1/8"	28.6	3/4"	3/4"	1/2"	II	42	0.09	1610
5220H	5/8"	15.9	1 3/16"	30.0	7/8"	7/8"	1/2"	II	53	0.12	2000
5222H	11/16"	17.4	1 3/16"	30.0	15/16"	15/16"	1/2"	II	55	0.12	2200
5224H	3/4"	19.1	1 3/16"	30.0	15/16"	1"	9/16"	II	66	0.15	2200
5226H	13/16"	20.6	1 1/4"	31.8	1 1/8"	1 1/8"	9/16"	II	71	0.16	2200
5228H	7/8"	22.2	1 1/4"	31.8	1 3/16"	1 3/16"	9/16"	II	74	0.16	2200
5230H	15/16"	23.8	1 1/4"	31.8	1 1/4"	1 1/4"	9/16"	II	72	0.16	2200
5232H	1"	25.4	1 1/4"	30.0	1 5/16"	1 5/16"	9/16"	II	72	0.16	2500



STANDARDS: FEDERAL GGG-W-641
 ASME/ANSI B107.4
 ISO 3315, SAE AS 4283, DIN 3123

12-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE

50XX

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END	SQUARE END			grs	lbs	lb-in
5008	1/4"	6.4	2 1/2"	63.5	3/8"	11/16"	5/16"	I	38	0.08	270
5010	5/16"	7.9	2 1/2"	63.5	7/16"	11/16"	9/16"	I	40	0.09	440
5012	3/8"	7.9	2 1/2"	63.5	1/2"	11/16"	1 1/16"	I	43	0.09	660
5014	7/16"	11.1	2 1/2"	63.5	5/8"	11/16"	1 1/16"	I	46	0.10	930
5016	1/2"	12.7	2 1/2"	65.0	3/4"	3/4"	1 1/16"	II	49	0.11	1240
5018	9/16"	14.2	2 1/2"	65.0	3/4"	3/4"	1 1/16"	II	68	0.15	1610
5020	5/8"	15.8	2 1/2"	65.0	7/8"	7/8"	1 1/16"	II	82	0.18	2000
5022	11/16"	17.4	2 1/2"	65.0	15/16"	15/16"	1 1/16"	II	93	0.21	2200
5024	3/4"	19.0	2 1/2"	65.0	1 1/16"	1 1/16"	1 1/16"	II	116	0.26	2200
5026	13/16"	20.6	2 1/2"	65.0	1 1/8"	1 1/8"	1 1/16"	II	144	0.32	2200
5028	7/8"	22.2	2 1/2"	65.0	1 3/16"	1 3/16"	1 1/16"	II	152	0.34	2200
5030	15/16"	23.8	2 1/2"	65.0	1 1/4"	1 1/4"	1 1/16"	II	166	0.37	2200
5032	1"	25.4	2 1/2"	65.0	1 5/16"	1 5/16"	1 1/16"	II	175	0.39	2200



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123

3



TYPE I



TYPE II

6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE

50XXH

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END	SQUARE END			grs	lbs	lb-in
5008H	1/4"	6.4	2 1/2"	73.0	3/8"	11/16"	5/16"	I	45	0.10	270
5010H	5/16"	7.9	2 1/2"	73.0	7/16"	11/16"	9/16"	I	45	0.10	440
5012H	3/8"	7.9	2 1/2"	73.0	1/2"	11/16"	1 1/16"	I	45	0.10	660
5014H	7/16"	11.1	2 1/2"	73.0	5/8"	11/16"	1 1/16"	I	45	0.10	930
5016H	1/2"	12.7	2 1/2"	65.0	3/4"	3/4"	1 1/16"	II	68	0.15	1214
5018H	9/16"	14.2	2 1/2"	65.0	3/4"	3/4"	1 1/16"	II	80	0.18	1610
5020H	5/8"	15.8	2 1/2"	65.0	7/8"	7/8"	1 1/16"	II	90	0.20	200
5022H	11/16"	17.4	2 1/2"	65.0	15/16"	15/16"	1 1/16"	II	100	0.22	2200
5024H	3/4"	19.0	2 1/2"	65.0	1 1/16"	1 1/16"	1 1/16"	II	135	0.30	2200
5026H	13/16"	20.6	2 1/2"	65.0	1 1/8"	1 1/8"	1 1/16"	II	175	0.39	2200
5028H	7/8"	22.2	2 1/2"	65.0	1 3/16"	1 3/16"	1 1/16"	II	208	0.46	2200
5030H	15/16"	23.8	2 1/2"	65.0	1 1/4"	1 1/4"	1 1/16"	II	214	0.47	2200
5032H	1"	25.4	2 1/2"	65.0	1 5/16"	1 5/16"	1 1/16"	II	263	0.58	2200



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



TYPE I



TYPE II

12-POINT METRIC SOCKETS, 3/8" DRIVE



52XXM

CODE	HEX SIZE	LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH		
		mm	in	HEX END	SQUARE END			ASME/ANSI	B107.5M	grs
5206M	6	1 1/8"	30.0	10.7	18.9	2.9	I	20	0.04	221
5207M	7	1 1/8"	30.0	10.7	18.9	2.9	I	20	0.04	327
5208M	8	1 1/8"	30.0	11.9	18.9	2.9	I	20	0.04	460
5209M	9	1 1/8"	30.0	13.4	18.9	3.9	I	20	0.04	584
5210M	10	1 1/8"	30.0	14.4	18.9	3.9	I	21	0.05	725
5211M	11	1 1/8"	30.0	18.9	18.9	5.9	I	22	0.05	991
5212M	12	1 1/8"	30.0	18.9	18.9	5.9	II	35	0.08	1097
5213M	13	1 1/8"	30.0	18.9	18.9	7.9	II	40	0.09	1300
5214M	14	1 1/8"	30.0	19.9	19.9	8.3	II	42	0.09	1548
5215M	15	1 1/8"	30.0	21.9	21.9	9.1	II	50	0.11	1796
5216M	16	1 3/16"	30.0	21.9	21.9	9.5	II	46	0.10	2097
5217M	17	1 3/16"	30.0	23.9	23.9	9.5	II	58	0.13	2203
5218M	18	1 3/16"	30.0	24.9	24.9	11.1	II	67	0.15	2203
5219M	19	1 3/16"	30.0	25.9	25.9	11.1	II	61	0.13	2203
5220M	20	1 1/4"	30.0	28.4	28.4	12.7	II	70	0.15	2203
5221M	21	1 1/4"	30.0	28.4	28.4	13.4	II	77	0.17	2203
5222M	22	1 1/4"	30.0	29.9	29.9	12.7	II	77	0.17	2203
5223M	23	1 1/4"	30.0	31.9	31.9	19.4	II	82	0.18	2204
5224M	24	1 1/4"	30.0	31.9	31.9	22.0	II	86	0.19	2204
5225M	25	1 1/4"	30.0	33.9	33.9	22.0	II	95	0.21	2204
5226M	26	1 1/4"	30.0	33.9	33.9	22.0	II	104	0.23	2204



6-POINT METRIC SOCKETS, 3/8" DRIVE



52XXHM

CODE	HEX SIZE	LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH		
		mm	in	HEX END	SQUARE END			ASME/ANSI	B107.5M	grs
5206HM	6	1 1/8"	30.0	10.4	18.9	2.9	I	18	0.04	221
5207HM	7	1 1/8"	30.0	11.4	18.9	2.9	I	18	0.04	327
5208HM	8	1 1/8"	30.0	11.9	18.9	2.9	I	18	0.04	460
5209HM	9	1 1/8"	30.0	13.4	18.9	3.9	I	18	0.04	584
5210HM	10	1 1/8"	30.0	14.4	18.9	3.9	I	23	0.05	725
5211HM	11	1 1/8"	30.0	16.4	18.9	5.9	I	24	0.05	991
5212HM	12	1 1/8"	28.0	18.9	18.9	8.0	II	28	0.06	1097
5213HM	13	1 1/8"	30.0	18.9	18.9	8.3	II	28	0.06	1300
5214HM	14	1 1/8"	30.0	19.9	19.9	9.1	II	34	0.07	1548
5215HM	15	1 1/8"	30.0	21.9	21.9	9.9	II	35	0.08	1796
5216HM	16	1 3/16"	30.0	21.9	21.9	15.4	II	36	0.08	2097
5217HM	17	1 3/16"	30.0	23.9	23.9	15.4	II	46	0.10	2203
5218HM	18	1 3/16"	30.0	24.9	24.9	16.6	II	55	0.12	2203
5219HM	19	1 3/16"	30.0	25.9	25.9	18.2	II	62	0.14	2203
5220HM	20	1 1/4"	30.0	27.9	27.9	19.4	II	82	0.18	2203
5221HM	21	1 1/4"	30.0	27.9	27.9	19.4	II	81	0.18	2203
5222HM	22	1 1/4"	30.0	29.9	29.9	19.4	II	86	0.19	2203
5223HM	23	1 1/4"	30.0	31.9	31.9	19.4	II	91	0.20	2204
5224HM	24	1 1/4"	30.0	31.9	31.9	22.0	II	100	0.22	2204
5225HM	25	1 1/4"	30.0	33.9	33.9	22.0	II	104	0.23	2204
5226HM	26	1 1/4"	30.0	33.9	33.9	22.0	II	108	0.24	2204



12-POINT DEEP METRIC SOCKETS, 3/8" DRIVE

50XXM

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORSION SCALE	TORQUE STRENGTH ASME/ANSI B107.5M		
	mm	in	mm	mm	mm	mm				grs	lbs	lb-in
5009M	9	2 1/2"	63.5	13.4	18.9	18.9	9.9	I	58	0.13	584	
5010M	10	2 1/2"	63.5	14.4	18.9	18.9	14.6	I	58	0.13	725	
5011M	11	2 1/2"	63.5	16.4	18.9	18.9	14.6	I	56	0.12	991	
5012M	12	2 1/2"	63.5	17.9	17.9	17.9	14.6	II	56	0.12	1097	
5013M	13	2 1/2"	63.5	18.9	18.9	18.9	14.6	II	59	0.13	1300	
5014M	14	2 1/2"	63.5	19.9	19.9	19.9	15.8	II	65	0.14	1548	
5015M	15	2 1/2"	63.5	21.9	21.9	21.9	17.0	II	87	0.19	1796	
5016M	16	2 1/2"	63.5	21.9	21.9	21.9	17.0	II	78	0.17	2097	
5017M	17	2 1/2"	63.5	23.9	23.9	23.9	28.5	II	120	0.26	2203	
5018M	18	2 1/2"	63.5	24.9	24.9	24.9	28.5	II	116	0.26	2203	
5019M	19	2 1/2"	63.5	25.9	25.9	25.9	37.6	II	103	0.23	2203	



STANDARDS:
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



TYPE I



TYPE II

3

6-POINT DEEP METRIC SOCKETS, 3/8" DRIVE

50XXHM

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORSION SCALE	TORQUE STRENGTH ASME/ANSI B107.5M		
	mm	in	mm	mm	mm	mm				grs	lbs	lb-in
5006HM	6	2 1/2"	63.5	10.4	18.9	18.9	2.9	I	36	0.08	221	
5007HM	7	2 1/2"	63.5	11.4	18.9	18.9	2.9	I	41	0.09	327	
5008HM	8	2 1/2"	63.5	11.9	18.9	18.9	2.9	I	41	0.09	460	
5009HM	9	2 1/2"	63.5	13.4	18.9	18.9	3.9	I	41	0.09	584	
5010HM	10	2 1/2"	63.5	14.4	18.9	18.9	3.9	I	41	0.09	725	
5011HM	11	2 1/2"	63.5	16.4	16.4	16.4	5.9	I	47	0.10	991	
5012HM	12	2 1/2"	63.5	17.9	17.9	17.9	5.9	II	52	0.11	1097	
5013HM	13	2 1/2"	63.5	18.9	18.9	18.9	7.9	II	55	0.12	1300	
5014HM	14	2 1/2"	63.5	19.9	19.9	19.9	8.3	II	56	0.12	1548	
5015HM	15	2 1/2"	63.5	20.9	20.9	20.9	9.1	II	87	0.19	1796	
5016HM	16	2 1/2"	63.5	20.9	20.9	20.9	9.5	II	103	0.23	2097	
5017HM	17	2 1/2"	63.5	23.9	23.9	23.9	9.5	II	119	0.26	2203	
5018HM	18	2 1/2"	63.5	24.9	24.9	24.9	11.1	II	119	0.26	2203	
5019HM	19	2 1/2"	63.5	25.9	25.9	25.9	11.1	II	137	0.30	2203	
5020HM	20	2 1/2"	63.5	27.9	27.9	27.9	12.7	II	136	0.30	2203	
5021HM	21	2 1/2"	63.5	27.9	27.9	27.9	13.4	II	145	0.32	2203	
5022HM	22	2 1/2"	63.5	29.9	29.9	29.9	13.4	II	154	0.34	2203	
5023HM	23	2 1/2"	63.5	32.0	32.0	32.0	13.4	II	163	0.36	2204	



STANDARDS:
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



TYPE I



TYPE II

SPARKPLUG SOCKETS IN FRACTIONAL SIZES, 3/8" DRIVE, WITH NEOPRENE

Special sparkplugs socket are long enough to reach and grip the sparkplug.



502050

5026HPA

50XXXXX

CODE	HEX SIZE		LENGTH		DIAMETER		DIAMETER		TORSION SCALE	TORQUE STRENGTH ASME/ANSI B107.34
	in	mm	in	mm	HEX END	DRIVE END	grs	lbs		
502050	5/8"	15.8	2 1/2"	63.5	7/8"	13/16"	100	0.22	2000	
5026HPA	13/16"	20.6	2 9/16"	64.2	1 1/16"	15/16"	138	0.30	2200	



STANDARDS: ASME/ANSI B107.4
ISO 11168

OXYGEN SENSOR SOCKETS, 3/8" DRIVE

In automotive maintenance it is common to find oxygen sensors installed in automobiles. It is much easier to install and remove these sensors if you have the right tool, since their nuts have cables.

URREA includes this tool in its family of sockets, with a 7/8" hex for use with 3/8" drive accessories, or a 7/8" wrench can be used on the external hexagon. Used on makes such as FORD, GENERAL MOTORS, CHRYSLER, and some imported vehicles.



5030S

5030S

CODE	HEX SIZE		LENGTH		DIAMETER		TORSION SCALE	TORQUE STRENGTH ASME/ANSI B107.34
	in	mm	in	mm	HEX END	HEX		
5030S	7/8"	22.2	63/64"	24.4	1 15/64"	7/8"	226.8	2000



STANDARDS: ASME/ANSI B107.4

CODE 5030S

Oxygen sensor socket, 3/8" x 7/8"

In automotive maintenance it is common to find oxygen sensors installed in automobiles. The sensor socket gives you extra power for installing and removing these sensors, and it has an opening along it that lets you work without damaging the cable that comes out of the sensor nut.



OIL PRESSURE SWITCH SOCKET, 3/8" DRIVE

5030A

CODE	OPENING		WEIGHT	
	SIZE 1	SIZE 2	grs	lb
5030A	1"	1 1/16"	220	0.484



One socket that fits 1" and 1 1/16" oil pressure switches
Use with 3/8" square drive



3

SOCKETS WITH HEX TIPS IN FRACTIONAL SIZES, 3/8" DRIVE

4990-X

CODE	TYPE OF TIP	TIP SIZE
4990-1/8"	Fractional	1/8"
4990-5/32"	Fractional	5/32"
4990-3/16"	Fractional	3/16"
4990-7/32"	Fractional	7/32"
4990-1/4"	Fractional	1/4"
4990-5/16"	Fractional	5/16"
4990-3/8"	Fractional	3/8"



SOCKETS WITH HEX TIPS IN METRIC SIZES, 3/8" DRIVE

4990XM

CODE	TYPE OF TIP	TIP SIZE
49904M	Metric	4 mm
49905M	Metric	5 mm
49906M	Metric	6 mm
49907M	Metric	7 mm
49908M	Metric	8 mm
499010M	Metric	10 mm



SOCKETS WITH TORX TIPS, 3/8" DRIVE

5239XXW

CODE	TYPE OF TIP	TIP SIZE
523910W	Torx	T10
523915W	Torx	T15
523920W	Torx	T20
523925W	Torx	T25
523927W	Torx	T27
523930W	Torx	T30
523940W	Torx	T40
523945W	Torx	T45
523950W	Torx	T50













SET OF 12-POINT METRIC AND FRACTIONAL SIZES HAND SOCKETS WITH ACCESSORIES, 1/2" DRIVE

5400SM

43 PIECES

SET OF 43 12-POINT METRIC AND FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5412	3/8"	 5410M	10 mm	 5452A	45 teeth 10"
5414	7/16"	5411M	11 mm	 5461	5"
5416	1/2"	5412M	12 mm	5463	10"
 5418	9/16"	5413M	13 mm	 5470	2 5/8"
5419	19/32"	 5414M	14 mm	 5480	18"
5420	5/8"	5415M	15 mm	 5440	9"
5422	11/16"	5416M	16 mm	 5495	49.5 x 22.0 x 4.5 cm
5424	3/4"	5417M	17 mm		
5425	25/32"	5418M	18 mm		
5426	13/16"	5419M	19 mm		
5428	7/8"	5420M	20 mm		
5430	15/16"	5421M	21 mm		
5432	1"	5422M	22 mm		
5434	1 1/16"	5423M	23 mm		
5436	1 1/8"	5424M	24 mm		
5438	1 3/16"	5426M	26 mm		
5440	1 1/4"	5428M	28 mm		
		5430M	30 mm		
		5432M	32 mm		



















SETS OF 6-POINT AND 12-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE

5400G

42 PIECES

SET OF 42 12-POINT AND 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5316	1/2"	 5412	3/8"	 5412H	3/8"	 5449	24 teeth 10 1/8"
5318	9/16"	5414	7/16"	5414H	7/16"	 5468	17 7/8"
5320	5/8"	5416	1/2"	5416H	1/2"	 5461	5"
5322	11/16"	 5418	9/16"	 5418H	9/16"	5463	10"
5324	3/4"	5420	5/8"	 5420H	5/8"	 5470	2 5/8"
 5326	13/16"	5422	11/16"	5422H	11/16"	 5480	18"
5328	7/8"	5424	3/4"	 5424H	3/4"	 5485	12 15/16"
5330	15/16"	5426	13/16"	5426H	13/16"	 5696	60.0 X 23.5 X 9.0 cm.
 5332	1"	5428	7/8"				
5334	1 1/16"	5430	15/16"				
5336	1 1/8"	5432	1"				
5340	1 1/4"	5434	1 1/16"				
		5436	1 1/8"				
		5438	1 3/16"				
		5440	1 1/4"				



5404B

27 PIECES

SET OF 27 12-POINT AND 6-POINT SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, WITH ACCESSORIES, COMBINATION WRENCHES AND PLIERS, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
5414H	7/16"	5420	5/8"	1/2" 532050	For 5/8" sparkplug with neoprene	1212	3/8"
5416H	1/2"	5422	11/16"	1/2" 5449	24 teeth 10 1/8"	1214	7/16"
5418H	9/16"	5424	3/4"	1/2" 5461	5"	1216	1/2"
1/2"		5426	13/16"	1/2" 5463	10"	1218	9/16"
1/2"		5428	7/8"	1/2" 5467	15 3/4"	1220	5/8"
1/2"		5430	15/16"	1/2" 5470	2 5/8"	1222	11/16"
1/2"		5432	1"			1224	3/4"
1/2"		5434	1 1/16"			240G	8 13/16" Rubber Grip
1/2"		5436	1 1/8"			5495	49.5 X 22.0 X 4.5 cm.
1/2"		5440	1 1/4"				



SETS OF 12-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE

54124

27 PIECES

SET OF 27 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
5412	3/8"	5422	11/16"	5431	31/32"	1/2" 5449	24 teeth 10 1/8"	1/2" 5470	2 5/8"
5414	7/16"	5424	3/4"	5432	1"	1/2" 5460	2 1/2"	1/2" 5480	18"
5416	1/2"	5425	25/32"	5434	1 1/16"	1/2" 5461	5"	1/2" 5495	49.5 X 22.0 X 4.5 cm.
5417	17/32"	5426	13/16"	5436	1 1/8"	1/2" 5463	10"		
5418	9/16"	5428	7/8"	5438	1 3/16"	1/2" 5468	17 7/8"		
5419	19/32"	5429	29/32"	5440	1 1/4"				
1/2" 5420	5/8"	5430	15/16"						



5400PC

25 PIECES

SET OF 25 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN BLOW MOLDED CASE






CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
5410	5/16"	5424	3/4"	1/2" 5470	2 5/8"	1/2" 5461	5"
5412	3/8"	5425	25/32"	1/2" 532050	For 5/8" sparkplug with neoprene	1/2" 5463	10"
5414	7/16"	5426	13/16"	1/2" 5326HPA	For 13/16" sparkplug with neoprene	1/2" 5484	9"
5416	1/2"	5428	7/8"	1/2" 5452A	10"	BM06	Blow Molded Case
5417	17/32"	5430	15/16"				
5418	9/16"	5432	1"				
5419	19/32"	5434	1 1/16"				
5420	5/8"	5436	1 1/8"				
5422	11/16"	5438	1 3/16"				



54113

22 PIECES

SET OF 22 12-POINT SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, ON RAIL AND CLIPS











CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5408	1/4"	5420	5/8"	5431	31/32"	 2585	Rail for clips and sockets, 9"
5410	5/16"	5422	11/16"	5432	1"	 2592	Socket clips
5412	3/8"	5424	3/4"	5434	1 1/16"		
5414	7/16"	5425	25/32"	5436	1 1/8"		
 5416	1/2"	5426	13/16"	5438	1 3/16"		
5417	17/32"	5428	7/8"	5440	1 1/4"		
 5418	9/16"	5429	29/32"				
5419	19/32"	5430	15/16"				



5400PB

20 PIECES

SET OF 20 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN BLOW MOLDED CASE











CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5412	3/8"	5424	3/4"	  5449	10 1/8"
5414	7/16"	5425	25/32"	  5470	2 5/8"
5416	1/2"	5426	13/16"	  5460	2 1/2"
 5417	17/32"	5428	7/8"	5461	5"
5418	9/16"	5430	15/16"	 BM04	Blow Molded Case
 5419	19/32"	5432	1"		
5420	5/8"	5438	1 3/16"		
5422	11/16"	5440	1 1/4"		



54120

18 PIECES

SET OF 18 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5412	3/8"	5426	13/16"	  5449	24 teeth 10 1/8"
5414	7/16"	5428	7/8"	  5461	5"
5416	1/2"	5430	15/16"	  5467	15 3/4"
 5418	9/16"	5432	1"	 5396	38.0 X 17.0 X 5.0 cm.
5420	5/8"	5434	1 1/16"		
5422	11/16"	5436	1 1/8"		
 5424	3/4"	5438	1 3/16"		
		5440	1 1/4"		



5400P

17 PIECES

SET OF 17 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN BLOW MOLDED CASE

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	NO.	DESCRIP.
5410	5/16"	5420	5/8"	5470	2 5/8"	5461	5"
5412	3/8"	5422	11/16"	5326HPA	For 13/16" sparkplug with neoprene	5463	10"
5414	7/16"	5424	3/4"	5452A	45 teeth 10"	BM02	Blow Molded Case
5416	1/2"	5426	13/16"				
5418	9/16"	5428	7/8"				
5419	19/32"	5430	15/16"				



3

5400AB

16 PIECES

SET OF 16 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
5414	7/16"	5424	3/4"	5449	24 teeth 10 1/8"	5470	2 5/8"
5416	1/2"	5426	13/16"	5461	5"	5480	18"
5418	9/16"	5428	7/8"	5463	10"	5495	49.5 X 22.0 X 4.5 cm.
5420	5/8"	5430	15/16"	5467	15 3/4"		
5422	11/16"	5432	1"				



54112

15 PIECES

SET OF 15 12-POINT SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, IN METAL TRAY

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5412	3/8"	5428	7/8"	5099	Metal tray
5414	7/16"	5430	15/16"		
5416	1/2"	5432	1"		
5418	9/16"	5434	1 1/16"		
5420	5/8"	5436	1 1/8"		
5422	11/16"	5438	1 3/16"		
5424	3/4"	5440	1 1/4"		
5426	13/16"				



54114

15 PIECES

SET OF 15 12-POINT SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, ON RAIL AND CLIPS





CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5412	3/8"	5428	7/8"	2585	Rail for clips and sockets, 9"
5414	7/16"	5430	15/16"	2592	Socket clips
5416	1/2"	5432	1"		
5418	9/16"	5434	1 1/16"		
5420	5/8"	5436	1 1/8"		
5422	11/16"	5438	1 3/16"		
5424	3/4"	5440	1 1/4"		
5426	13/16"				



5400PA

14 PIECES

SET OF 14 12-POINT SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, IN BLOW MOLDED CASE








CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5414	7/16"	5428	7/8"	 BM03	Blow Molded Case
5416	1/2"	5430	15/16"		
 5418	9/16"	5432	1"		
 5420	5/8"	5434	1 1/16"		
5422	11/16"	5436	1 1/8"		
5424	3/4"	5438	1 3/16"		
5426	13/16"	5440	1 1/4"		



54116

12 PIECES

SET OF 12 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX










CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5414	7/16"	5424	3/4"	  5449	24 teeth 10 1/8"
5416	1/2"	5426	13/16"		
 5418	9/16"	5428	7/8"	  5461	5"
5420	5/8"	5430	15/16"		
5422	11/16"	5432	1"	 5396	38.0 X 17.0 X 5.0 cm.



JBUA01S

10 PIECES

SET OF 10 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN BLISTER PACK

CODE	SIZE	CODE	DESCRIPTION
 5412	3/8"	  5449	24 teeth 10 1/8"
5414	7/16"		
5416	1/2"	  5461	5"
 5418	9/16"		
5420	5/8"	 2585	Rail for clips and sockets, 9"
5422	11/16"		
 5424	3/4"	 2592	Socket clips
5426	13/16" A		








SETS OF 6-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE

54109

20 PIECES

SET OF 20 6-POINT SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5408H	1/4"	5420H	5/8"	5432H	1"	 2585	Rail for clips and sockets, 9"
5410H	5/16"	5422H	11/16"	5434H	1 1/16"		
5412H	3/8"	5424H	3/4"	5436H	1 1/8"	 2592	Socket clips
 5414H	7/16"	5425H	25/32"	5438H	1 3/16"		
5416H	1/2"	5426H	13/16"	5440H	1 1/4"		
5418H	9/16"	5428H	7/8"	5448H	1 1/2"		
 5419H	19/32"	5430H	15/16"				



54122

18 PIECES

SET OF 18 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5412H	3/8"	5428H	7/8"	5449	24 teeth 10 1/8"
5414H	7/16"	5430H	15/16"	5461	5"
5416H	1/2"	5432H	1"	5467	15 3/4"
5418H	9/16"	5434H	1 1/16"	5495	49.5 X 22.0 X 4.5 cm.
5420H	5/8"	5436H	1 1/8"		
5422H	11/16"	5438H	1 3/16"		
5424H	3/4"	5440H	1 1/4"		
5426H	13/16"				



3

54110

15 PIECES

SET OF 15 6-POINT SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5412H	3/8"	5428H	7/8"	2585	Rail for clips and sockets, 9"
5414H	7/16"	5430H	15/16"	2592	Socket clips
5416H	1/2"	5432H	1"		
5418H	9/16"	5434H	1 1/16"		
5420H	5/8"	5436H	1 1/8"		
5422H	11/16"	5438H	1 3/16"		
5424H	3/4"	5440H	1 1/4"		
5426H	13/16"				



5400H

5 PIECES

SET OF 5 6-POINT SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	DESCRIPTION
5412H	3/8"	2585	Rail for clips and sockets, 9"
5414H	7/16"	2592	Socket clips
5416H	1/2"		
5418H	9/16"		
5420H	5/8"		



SETS OF 12-POINT DEEP HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE

5300A

14 PIECES

SET OF 14 12-POINT DEEP SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX






CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5316	1/2"	5332	1"	5449	24 teeth 10 1/8"
5318	9/16"	5334	1 1/16"	5461	5"
5320	5/8"	5336	1 1/8"	5467	15 3/4"
5322	11/16"			5495	49.6 X 22.0 X 5.0 cm.
5324	3/4"				
5326	13/16"				
5328	7/8"				
5330	15/16"				



54107

12 PIECES

SET OF 12 12-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, ON RAIL AND CLIPS





CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5316	1/2"	5330	15/16"		2585 Rail for clips and sockets, 9"
5318	9/16"	5332	1"		
 5320	5/8"	5334	1 1/16"		2592 Socket clips
5322	11/16"	5336	1 1/8"		
 5324	3/4"	5340	1 1/4"		
5326	13/16"				
5328	7/8"				



5400PH

10 PIECES

SET OF 10 12-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, IN BLOW MOLDED CASE

CODE	SIZE	CODE	DESCRIPTION
 5316	1/2"	5330	15/16"
5318	9/16"	5332	1"
 5320	5/8"	5334	1 1/16"
5322	11/16"		BM07 Blow Molded Case
5324	3/4"		
 5326	13/16"		
5328	7/8"		








SETS OF 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/2" SQUARE DRIVE

54103

14 PIECES

SET OF 14 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, ON RAIL AND CLIPS






CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5312H	3/8"	5326H	13/16"		2585 Rail for clips and sockets, 9"
5314H	7/16"	5328H	7/8"		
 5316H	1/2"	5330H	15/16"		2592 Socket clips
5318H	9/16"	5332H	1"		
 5320H	5/8"	5334H	1 1/16"		
5322H	11/16"	5336H	1 1/8"		
5324H	3/4"	5340H	1 1/4"		



5300H

7 PIECES

SET OF 7 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	DESCRIPTION
 5316H	1/2"		2585 Rail for clips and sockets, 9"
5318H	9/16"		
 5320H	5/8"		2592 Socket clips
5322H	11/16"		
 5324H	3/4"		
5326H	13/16"		
5330H	15/16"		



SET OF 12-POINT METRIC HAND SOCKETS WITH ACCESSORIES, 1/2" DRIVE

54214A

31 PIECES

SET OF 31 12-POINT METRIC STANDARD AND DEEP SOCKETS WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5410M	10 mm	5418M	18 mm	5316M	16 mm	5321M	21 mm	1/2" 5449	24 teeth 10 1/8"
5411M	11 mm	5419M	19 mm	5317M	17 mm	5322M	22 mm	1/2" 5461	5"
5412M	12 mm	5420M	20 mm	5318M	18 mm	5324M	24 mm	1/2" 5463	10"
5413M	13 mm	5421M	21 mm	5319M	19 mm	5325M	25 mm	1/2" 5467	15 3/4"
5414M	14 mm	5422M	22 mm	5320M	20 mm	5326M	26 mm	5495	49.5 X 22.0 X 4.5 cm.
5415M	15 mm	5423M	23 mm						
5416M	16 mm	5424M	24 mm						
5417M	17 mm	5425M	25 mm						
		5426M	26 mm						



5400M

28 PIECES

SET OF 28 12-POINT METRIC SOCKETS WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION
5410M	10 mm	5418M	18 mm	5425M	25 mm	1/2" 5449	24 teeth 10 1/8"	1/2" 5470	2 5/8"
5411M	11 mm	5419M	19 mm	5426M	26 mm	1/2" 5461	5"	1/2" 5480	18"
5412M	12 mm	5420M	20 mm	5427M	27 mm	1/2" 5463	10"	5695	49.5 X 22.0 X 4.5 cm.
5413M	13 mm	5421M	21 mm	5428M	28 mm	1/2" 5467	15 3/4"		
5414M	14 mm	5422M	22 mm	5429M	29 mm				
5415M	15 mm	5423M	23 mm	5430M	30 mm				
5416M	16 mm	5424M	24 mm	5432M	32 mm				
5417M	17 mm								



54211

24 PIECES

SET OF 24 12-POINT METRIC SOCKETS, 1/2" DRIVE, ON RAIL AND CLIPS









CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5410M	10mm	5418M	18 mm	5426M	26 mm	2585	Rail for clips and sockets, 9"
5411M	11 mm	5419M	19 mm	5427M	27 mm	1/2" 2592	Socket clips
5412M	12 mm	5420M	20 mm	5428M	28 mm		
5413M	13 mm	5421M	21 mm	5429M	29 mm		
5414M	14 mm	5422M	22 mm	5430M	30 mm		
5415M	15 mm	5423M	23 mm	5431M	31 mm		
5416M	16 mm	5424M	24 mm	5432M	32 mm		
5417M	17 mm	5425M	25 mm	5436M	36 mm		



54210

22 PIECES

SET OF 22 12-POINT METRIC SOCKETS WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX








CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION		
 5410M	10mm	5416M	16 mm	5422M	22 mm	 1/2"	5449	24 teeth 10 1/8"	 1/2"	5470	2 5/8"
5411M	11 mm	5417M	17 mm	5423M	23 mm	 1/2"	5461	5"		5495	49.5 X 22.0 X 4.5 cm.
5412M	12 mm	5418M	18 mm	5424M	24 mm	5463	10"				
 5413M	13 mm	5419M	19 mm	5425M	25 mm	 1/2"	5468	17 7/8"			
5414M	14 mm	5420M	20 mm	5426M	26 mm						
 5415M	15 mm	5421M	21 mm								



5400PBM

20 PIECES

SET OF 20 12-POINT METRIC SOCKETS WITH ACCESSORIES, 1/2" DRIVE, IN BLOW MOLDED CASE









CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	
 5410M	10 mm	5418M	18 mm	 1/2"	5449	10 1/8"
5411M	11 mm	5419M	19 mm	 1/2"	5470	2 5/8"
5412M	12 mm	5421M	21 mm	 1/2"	5460	2 1/2"
 5413M	13 mm	5422M	22 mm	5461	5"	
5414M	14 mm	5424M	24 mm		BM04	Blow Molding Case
5415M	15 mm	5427M	27 mm			
 5416M	16 mm	5430M	30 mm			
5417M	17 mm	5432M	32 mm			



5400PM

17 PIECES

SET OF 17 12-POINT METRIC SOCKETS WITH ACCESSORIES, 1/2" DRIVE, IN BLOW MOLDED CASE

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIPTION		
 5409M	9 mm	5415M	15 mm	 1/2"	5470	2 5/8"	 1/2"	5461	5"
5410M	10 mm	5417M	17 mm	 1/2"	5326HPA	Sparkplug 13/16" w/neoprene	5463	10"	
 5411M	11 mm	5419M	19 mm	 1/2"	5452A	45 teeth 10"		BM02	Blow Molding Case
5412M	12 mm	5421M	21 mm						
5413M	13 mm	5422M	22 mm						
 5414M	14 mm	5424M	24 mm						



54208

16 PIECES

SET OF 16 12-POINT METRIC SOCKETS WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5410M	10 mm	5417M	17 mm	5449	24 teeth 10 1/8"
5411M	11 mm	5418M	18 mm	5461	5"
5412M	12 mm	5419M	19 mm	5396	38.0 X 17.0 X 5.0 cm.
5413M	13 mm	5420M	20 mm		
5414M	14 mm	5421M	21 mm		
5415M	15 mm	5422M	22 mm		
5416M	16 mm	5423M	23 mm		



3

54214

15 PIECES

SET OF 15 12-POINT METRIC SOCKETS, 1/2" DRIVE, IN METAL TRAY

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5410M	10 mm	5415M	15 mm	5420M	20 mm	5491	Metal tray
5411M	11 mm	5416M	16 mm	5421M	21 mm		
5412M	12 mm	5417M	17 mm	5422M	22 mm		
5413M	13 mm	5418M	18 mm	5423M	23 mm		
5414M	14 mm	5419M	19 mm	5424M	24 mm		



54206

15 PIECES

SET OF 15 12-POINT METRIC SOCKETS, 1/2" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5410M	10 mm	5418M	18 mm	2585	Rail for clips and sockets, 9"
5411M	11 mm	5419M	19 mm	2592	Socket clips
5412M	12 mm	5420M	20 mm		
5413M	13 mm	5421M	21 mm		
5414M	14 mm	5422M	22 mm		
5415M	15 mm	5423M	23 mm		
5416M	16 mm	5424M	24 mm		
5417M	17 mm				



5400PAM

14 PIECES

SET OF 14 12-POINT METRIC SOCKETS, 1/2" DRIVE, IN BLOW MOLDED CASE








CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5410M	10 mm	5422M	22 mm	BM03	Blow Molded Case
5413M	13 mm	5423M	23 mm		
5414M	14 mm	5425M	25 mm		
5415M	15 mm	5427M	27 mm		
5416M	16 mm	5429M	29 mm		
5419M	19 mm	5430M	30 mm		
5421M	21 mm	5432M	32 mm		



JBUA01M

10 PIECES

SET OF 10 12-POINT METRIC SOCKETS WITH ACCESSORIES, 1/2" DRIVE, IN BLISTER PACK

CODE	SIZE	CODE	DESCRIPTION
 5410M	10 mm	 1/2" 5449	24 teeth 10 1/8"
5411M	11 mm	 1/2" 5461	5"
5412M	12 mm		
 5413M	13 mm	 2585	Rail for clips and sockets, 9"
5414M	14 mm		
5416M	16 mm		
 5417M	17 mm	 1/2" 2592	Socket clips
5419M	19 mm		








SET OF 6-POINT METRIC HAND SOCKETS WITH ACCESSORIES, 1/2" DRIVE

54209

24 PIECES

SET OF 24 6-POINT METRIC SOCKETS, 1/2" DRIVE, ON RAIL AND CLIPS










CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5408HM	8 mm	5416HM	16 mm	 2585			Rail for clips and sockets, 9"
5409HM	9 mm	5417HM	17 mm	 2592			Socket clips
5410HM	10 mm	5418HM	18 mm				
5411HM	11 mm	5419HM	19 mm				
 5412HM	12 mm	5420HM	20 mm				
5413HM	13 mm	5421HM	21 mm				
 5414HM	14 mm	5422HM	22 mm				
5415HM	15 mm	5423HM	23 mm				
				5424HM	24 mm		
				5425HM	25 mm		
				5426HM	26 mm		
				5427HM	27 mm		
				5428HM	28 mm		
				5429HM	29 mm		
				5430HM	30 mm		
				5432HM	32 mm		



54210H

22 PIECES

SET OF 22 6-POINT METRIC SOCKETS WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	DESCRIP.
 5410HM	10mm	5416HM	16 mm	5422HM	22 mm	 1/2" 5449	24 teeth 10 1/8"	 1/2" 5470	2 5/8"
5411HM	11 mm	5417HM	17 mm	5423HM	23 mm	 1/2" 5461	5"	 5495	49.5 X 22.0 X 4.5 cm.
5412HM	12 mm	5418HM	18 mm	5424HM	24 mm				
 5413HM	13 mm	5419HM	19 mm	5425HM	25 mm	 1/2" 5463	10"		
5414HM	14 mm	5420HM	20 mm	5426HM	26 mm	 1/2" 5468	17 7/8"		
 5415HM	15 mm	5421HM	21 mm						



54208H

16 PIECES

SET OF 16 6-POINT METRIC SOCKETS WITH ACCESSORIES, 1/2" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5410HM	10 mm	5417HM	17 mm	5449	24 teeth 10 1/8"
5411HM	11 mm	5418HM	18 mm	5461	5"
5412HM	12 mm	5419HM	19 mm	5396	38.0 X 17.0 X 5.0 cm.
5413HM	13 mm	5420HM	20 mm		
5414HM	14 mm	5421HM	21 mm		
5415HM	15 mm	5422HM	22 mm		
5416HM	16 mm	5423HM	23 mm		



3

54205

15 PIECES

SET OF 15 6-POINT METRIC SOCKETS, 1/2" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5410HM	10 mm	5418HM	18 mm	2585	Rail for clips and sockets, 9"
5411HM	11 mm	5419HM	19 mm	2592	Socket clips
5412HM	12 mm	5420HM	20 mm		
5413HM	13 mm	5421HM	21 mm		
5414HM	14 mm	5422HM	22 mm		
5415HM	15 mm	5423HM	23 mm		
5416HM	16 mm	5424HM	24 mm		
5417HM	17 mm				



5400HM

3 PIECES

SET OF 3 6-POINT METRIC SOCKETS, 1/2" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	DESCRIPTION
5410HM	10 mm	2585	Rail for clips and sockets, 9"
5413HM	13 mm	2592	Socket clips
5415HM	15 mm		



SETS OF 12-POINT DEEP METRIC SOCKETS, 1/2" DRIVE

54201

23 PIECES

SET OF 23 12-POINT DEEP METRIC SOCKETS, 1/2" DRIVE, ON RAIL AND CLIPS





CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5310M	10mm	5418M	18 mm	5326M	26 mm	2585	Rail for clips and sockets, 9"
5311M	11 mm	5419M	19 mm	5327M	27 mm	2592	Socket clips
5312M	12 mm	5420M	20 mm	5328M	28 mm		
5313M	13 mm	5421M	21 mm	5329M	29 mm		
5314M	14 mm	5422M	22 mm	5330M	30 mm		
5315M	15 mm	5423M	23 mm	5331M	31 mm		
5316M	16 mm	5424M	24 mm	5332M	32 mm		
5317M	17 mm	5425M	25 mm				



54207

15 PIECES

SET OF 15 12-POINT DEEP METRIC SOCKETS, 1/2" DRIVE, ON RAIL AND CLIPS





CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	5310M 10mm	5318M 18 mm		2585	Rail for clips and sockets, 9"
	5311M 11 mm	5319M 19 mm		2592	Socket clips
	5312M 12 mm	5320M 20 mm			
	5313M 13 mm	5321M 21 mm			
	5314M 14 mm	5322M 22 mm			
	5315M 15 mm	5323M 23 mm			
	5316M 16 mm	5324M 24 mm			
	5317M 17 mm				



5400PHM

10 PIECES

SET OF 10 12-POINT DEEP METRIC SOCKETS, 1/2" DRIVE, IN BLOW MOLDED CASE

CODE	SIZE	CODE	DESCRIPTION
	5312M 12 mm	5323M 23 mm	
	5314M 14 mm	5325M 25 mm	
	5315M 15 mm	5326M 26 mm	
	5317M 17 mm		
	5319M 19 mm		BM07 Blow Molded Case
	5320M 20 mm		
	5322M 22 mm		








SETS OF 6-POINT DEEP METRIC SOCKETS, 1/2" DRIVE

54203

18 PIECES

SET OF 18 6-POINT DEEP METRIC SOCKETS, 1/2" DRIVE, ON RAIL AND CLIPS





CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	5310HM 10mm	5319HM 19 mm		2585	Rail for clips and sockets, 9"
	5311HM 11 mm	5320HM 20 mm		2592	Socket clips
	5312HM 12 mm	5321HM 21 mm			
	5313HM 13 mm	5322HM 22 mm			
	5314HM 14 mm	5323HM 23 mm			
	5315HM 15 mm	5324HM 24 mm			
	5316HM 16 mm	5325HM 25 mm			
	5317HM 17 mm	5326HM 26 mm			
	5318HM 18 mm	5327HM 27 mm			



54204

12 PIECES

SET OF 12 6-POINT DEEP METRIC SOCKETS, 1/2" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	5310HM 10 mm	5316HM 16 mm		2585	Rail for clips and sockets, 9"
	5311HM 11 mm	5317HM 17 mm		2592	Socket clips
	5312HM 12 mm	5318HM 18 mm			
	5313HM 13 mm	5319HM 19 mm			
	5314HM 14 mm	5320HM 20 mm			
	5315HM 15 mm	5321HM 21 mm			



5300HM

5 PIECES

SET OF 5 6-POINT DEEP METRIC SOCKETS, 1/2" DRIVE, ON RAIL AND CLIPS

	CODE	SIZE		CODE	DESCRIPTION
 	5310HM	10 mm	 	2585	Rail for clips and sockets, 9"
	5313HM	13 mm		2592	Socket clips
	5315HM	15 mm			
	5317HM	17 mm			
	5318HM	18 mm			



3

SETS OF SOCKETS WITH TIPS, 1/2" DRIVE

54417

7 PIECES

SET OF 7 SOCKETS WITH HEX TIPS, 1/4" TO 5/8", 1/2" DRIVE, ON RAIL AND CLIPS

	CODE	SIZE		CODE	DESCRIPTION
 	5441-1/4	1/4"	 	2585	Rail for clips and sockets, 9"
	5441-5/16	5/16"		2592	Socket clips
	5441-3/8	3/8"			
	5441-7/16	7/16"			
	5441-1/2	1/2"			
	5441-9/16	9/16"			
	5441-5/8	5/8"			



5441M6

6 PIECES

SET OF 6 HEX TIP SOCKETS, 6-17 mm, 1/2" DRIVE, ON RAIL AND CLIPS

	CODE	SIZE		CODE	DESCRIPTION
 	54416M	6 mm	 	2585	Rail for clips and sockets, 9"
	54418M	8 mm		2592	Socket clips
	544110M	10 mm			
	544112M	12 mm			
	544114M	14 mm			
	544117M	17 mm			



5439C

7 PIECES

SET OF 7 TORX TIP SOCKETS, T20 TO T55, 1/2" DRIVE, ON RAIL AND CLIPS

	CODE	SIZE		CODE	DESCRIPTION
 	543920W	T20	 	2585	Rail for clips and sockets, 9"
	543925W	T25		2592	Socket clips
	543930W	T30			
	543940W	T40			
	543945W	T45			
	543950W	T50			
	543955W	T55			



REVERSIBLE RATCHET HANDLES, 1/2" DRIVE

Ratchet handles are used with sockets; the ratchet is the lever arm that lets you apply torque through the socket attached to it. The reversible mechanism lets you turn the socket in both directions, for tightening and loosening. The design and dimensions of 1/2" ratchet handles are ideal for automotive maintenance and general mechanical work, in situations where higher torque is required and there is more room to work. The maximum recommended torque for a 1/2" ratchet handle is 4500 in-lbs.

5452FL
MULTIPLE POSITION RATCHET 1/2"



CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5452FL	1/2	12.7	12	254	900	2.00	47



STANDARDS: FEDERAL GGG-W-641, ASME B 107.10M, ISO 3315, SAE AS4283, DIN 3123

Reversible.
Quick Release system. Turns 360 degrees



This system adopt different angles and positions allowing a faster work.

5449G
REVERSIBLE OFFSET RATCHET HANDLE, 72 TEETH



CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5449G	1/2"	12.7	10"	254	476	1	72



STANDARDS: FEDERAL GGG-W-641, ASME B 107.10M, ISO 3315, SAE AS4283, DIN 3123

Quadruple mechanism uses a toothed cam that maintains contact with four gear teeth when torque is applied.

5-degree swing arc

Poly propylene cover.



Ergonomic Impact resistance. Quick Release system.

544952N
REVERSIBLE DOUBLE DRIVE PEAR-HEAD RATCHET HANDLE, 24 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
544952N	1/2"	12.7	10 1/8"	257.1	611	1,347	24



STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B107.4, ISO 3315, SAE AS 4283, DIN 3123



CODE 544952N
24-tooth reversible ratchet handle with double drive, 3/8" and 1/2" x 10-1/8"

Lets you use the same ratchet handle (2 in 1) with sockets and other accessories that have 3/8" and 1/2" drives, eliminating the need for an adapter. Just turn the ratchet and select the drive to use.

54490 QUICK RELEASE REVERSIBLE PEAR-HEAD RATCHET HANDLE, 24 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
54490	1/2"	12.7	10 1/8"	257.1	597	1.316	24

STANDARDS: FEDERAL GGG-W-641, ASME B 107.10M, ISO 3315, SAE AS4283, DIN 3123



The QUICK RELEASE system has been added to the traditional pear-head ratchet mechanism, so you can attach and remove sockets and accessories effortlessly. This is especially important when working with greases and oils that make sockets and accessories slippery, so that it becomes very difficult to remove them from the ratchet drive. With this system, you just push the button on the back of the ratchet head and the socket or accessory drops off.

5449NX REVERSIBLE PEAR-HEAD RATCHET HANDLES, 36 TEETH



CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5449NH	1/2"	12.7	10 21/64"	262.3	860	1.89	36
5449N	1/2"	12.7	10 21/64"	262.3	860	1.89	36

STANDARDS: FEDERAL GGG-W-641, ASME B107.10M, ISO 3315, SAE AS 4283, DIN 3123



Handle with larger surface of contact, makes direction changes easier.

10-degree swing arc



5449NH



5449N

Ergonomic handle design.

5449H RUBBER GRIP HANDLE REVERSIBLE PEAR-HEAD RATCHET HANDLE, 24 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5449H	1/2"	12.7	10 1/8"	257.1	638	1.406	24



STANDARDS: FEDERAL GGG-W-641, ASME B 107.10M, ISO 3315, SAE AS4283, DIN 3123



5449 REVERSIBLE PEAR-HEAD RATCHET HANDLE, 24 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5449	1/2"	12.7	10 1/8"	257.1	597	1.316	24

STANDARDS: FEDERAL GGG-W-641, ASME B 107.10M, ISO 3315, SAE AS4283, DIN 3123



Traditional ratchet mechanism design with alloyed steel bolts, heat-treated in controlled-atmosphere furnaces to guarantee high strength and wear-resistance.

Gear with 24 teeth and 15-degree swing arc

5449B
BLACK REVERSIBLE PEAR-HEAD RATCHET HANDLE, 24 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH	
	in	mm	in	mm	grs	lbs		
5449B	1/2"	12.7	10 1/8"	257.1	597	1.316	4500	24



BLACK

STANDARDS: FEDERAL GGG-W-641, ASME B 107.10M, ISO 3315, SAE AS4283, DIN 3123



Narrow head for access to tight spaces.



Code 5449B

Reversible ratchet, 24 teeth, 1/2" x 10-1/8", Black

The BLACK finish (phosphatized or blued) keeps the ratchet handle from shedding particles of its coating during use, which could contaminate a process or product. Strongly recommended for machinery and equipment maintenance and repair work in industries with FOD (Foreign-Object Debris) requirements. This includes the food packaging, chemical, pharmaceutical, and photographic industries, among others, where it may be necessary to perform repairs during the production process.

5457
REVERSIBLE 5-POSITION INGLE HEAD RATCHET HANDLE, 45 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH	
	in	mm	in	mm	grs	lbs		
5457	1/2"	12.7	13"	330.0	771	1.69	4500	45



STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B107.4, ISO 3315, SAE AS 4283, DIN 3123



Code 5457

Reversible ratchet, round head, 45 teeth, 1/2" x 13", hinged head, 5 positions. The hinge-head ratchet handle lets you work in areas where the angle of rotation for the parts or screws to be adjusted is not optimal. The hinged head allows a 180° angle with respect to the handle, making the tool extremely versatile when used with accessories such as extensions and adapters.



5452A
REVERSIBLE ROUND-HEAD RATCHET HANDLE, 45 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH	
	in	mm	in	mm	grs	lbs		
5452A	1/2"	12.7	10"	254.0	600	1.32	4500	45



STANDARDS: FEDERAL GGG-W-641, ASME/ANSI B107.4, ISO 3315, SAE AS 4283, DIN 3123

Smaller round head for access to tight spaces.

Internal mechanism assembled as one PIECES held by a retaining ring, which eliminates the use of screws.



Precision-machined gear on internal head wall, with total of 45 teeth and 8-degree swing arc.

5450

LONG RATCHET HANDLE

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	ASME/ANSI B 107.10M	lb-in	
5450	1/2"	12.7	16"	406	900 grs	1.98 lbs	4,500



STANDARDS:
FEDERAL GGG-W-641

Long ratchet handle for applying more torque.



5449 14BL

BLACK STRUCTURAL RATCHET HANDLE

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH
	in	mm	in	mm	ASME/ANSI B 107.10M	lb-in	
5449 14BL	1/2"	12.7	14"	355	840 grs	1.85 lbs	4,500



BLACK

STANDARDS:
FEDERAL GGG-W-641

Blued finish for FOD applications.



Conical handle for aligning flange holes and similar applications.

54XXXXRK

REPLACEMENT PARTS FOR REVERSIBLE RATCHET HANDLE, 1/2" DRIVE

CODE	DESCRIPTION
544952NRK	Set of replacement parts for ratchet handle code: 544952N
5449QRK	Set of replacement parts for ratchet handle code: 5449Q
5449RK	Set of replacement parts for ratchet handle code: 5449H, 5449B, 5449
5452ARK	Set of replacement parts for ratchet handle code: 5452A and 5457



HINGE HANDLES 1/2" DRIVE

This is a lever arm with a drive that rotates 180 degrees so you can apply torque with different angles of attack. The maximum recommended torque for a 1/2" hinge handle is 4000 in-lbs.

54XX

CODE	DRIVE SIZE		DESCRIPTION	LENGTH		RESISTANCE	
	in	mm		in	mm	ASME/ANSI B 107.10M	lb-in
5466	1/2"	12.7		10 51/64"	274.2	592	1.30
5466H	1/2"	12.7	Rubber Grip handle	10 51/64"	274.2	600	1.32
5467	1/2"	12.7		15 35/64"	394.8	740	1.63
5467H	1/2"	12.7	Rubber Grip handle	15 35/64"	394.8	754	1.66
5468	1/2"	12.7		18 43/64"	474.2	766	1.68
5468H	1/2"	12.7	Rubber Grip handle	18 43/64"	474.2	862	1.90

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



5466RK
REPLACEMENT PARTS FOR HINGE HANDLES, 1/2" DRIVE

CODE	DESCRIPTION
5466RK	Set of replacement parts for hinge handles, codes: 5468H, 5468, 5467H, 5467, 5466H, 5466



SPEED HANDLE, 1/2" DRIVE

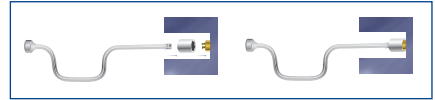
This is a handle used to turn sockets or adapters with 1/2" drive; it consists of a bar with an eccentric bend and a rotating end knob, and is very useful in automotive engine repair and maintenance work. The maximum recommended torque for a 1/2" speed handle is 700 in-lbs.

5480

CODE	DRIVE SIZE		LENGTH		RESISTANCE	
	in	mm	in	mm	grs	lbs
5480	1/2"	12.7	18"	457.2	703	1.54

RESISTANCE ASME/ANSI B107.10M
lb-in
700

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



SLIDING BAR, 1/2" DRIVE

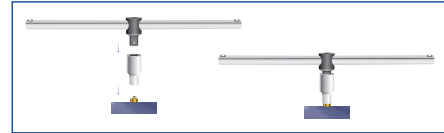
This is a lever arm with a drive that slides on the bar, so you can vary the distance between the socket's rotation center and the end where torque is applied. You can also position the drive in the center of the bar and use both hands to apply force. The maximum recommended torque for a 1/2" sliding bar is 2500 in-lbs.

548X

CODE	DRIVE SIZE		LENGTH		RESISTANCE	
	in	mm	in	mm	grs	lbs
5484	1/2"	12.7	9 1/2"	241.0	370	0.81
5485	1/2"	12.7	12 15/16"	328.6	463	1.02

RESISTANCE ASME/ANSI B107.10M
lb-in
2500

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



"L" HANDLE, 1/2" DRIVE

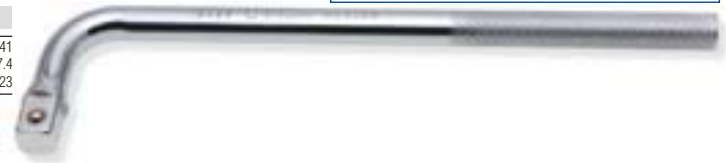
This is a lever arm fixed at 90 degrees. The design is very strong because there are no moving parts.

5486

CODE	DRIVE SIZE		LENGTH		RESISTANCE	
	in	mm	in	mm	grs	lbs
5486	1/2"	12.7	8 3/4"	222.2	250	0.55

RESISTANCE ASME/ANSI B107.10M
lb-in
4531

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



QUICK RELEASE EXTENSIONS 1/2" DRIVE

546XXQR

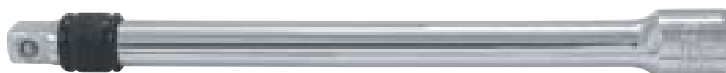
CODE	DRIVE SIZE		LENGTH		RESISTANCE		ASME/ANSI B107.10M
	in	mm	in	mm	grs	lbs	
5460QR	1/2"	12.7	3"	76.2	276	89	0.155
5461QR	1/2"	12.7	6"	152.4	155	50	0.276
5463QR	1/2"	12.7	10"	254	46	15	0.46



STANDARDS:
FEDERAL GGG-W-641E
ASME B107.10M

Quick release system allows to remove the accessories fast and easy.
Better grip make it safer.

3



5463QR

EXTENSION, 1/2" DRIVE

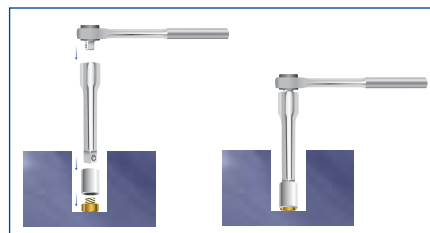
This accessory lets you work on screws in tight or deep spaces where a ratchet handle head can't reach; available in a variety of lengths. The maximum recommended torque for a 1/2" extension of any length is 3500 in-lbs.

546X

CODE	DRIVE SIZE		LENGTH		RESISTANCE		ASME/ANSI B107.10M
	in	mm	in	mm	grs	lbs	
5460	1/2"	12.7	2 1/2"	63.5	130	0.28	3500
5461	1/2"	12.7	5"	127.0	196	0.43	3500
5463	1/2"	12.7	10"	254.0	275	0.60	3500
546424	1/2"	12.7	24"	609.6	656	1.44	3500
546430	1/2"	12.7	30"	762.0	820	1.80	3500
546436	1/2"	12.7	36"	914.4	984	2.16	3500



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



5460



5461

5463

546424

546430

546436

UNIVERSAL JOINT, 1/2" DRIVE

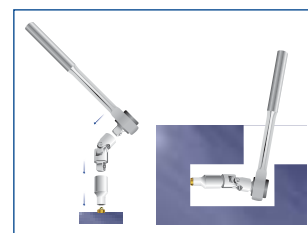
This accessory makes the advantages of a hinge handle available to any fixed handle, such as a ratchet or sliding bar, so you can access nuts or bolts at a variety of angles. The maximum recommended torque for a 1/2" universal joint is 1750 in-lbs.

5470

CODE	DRIVE SIZE		LENGTH		RESISTANCE		ASME/ANSI B107.10M
	in	mm	in	mm	grs	lbs	
5470	1/2"	12.7	2 5/8"	69.8	135	0.29	4531



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



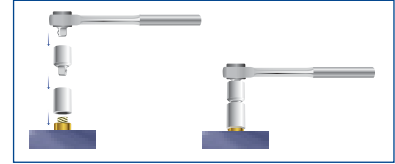
ADAPTER, 1/2" DRIVE

These accessories let you work with 1/2" square drive sockets using 3/4" handles.
The maximum recommended torque for adapters with 3/4" female drive and 1/2" male drive is 4500 in-lbs.

5453

CODE	DESCRIPTION		LENGTH		RESISTANCE		ASME/ANSI B107.10M lb-in
	in	mm	in	mm	grs	lbs	
5453	3/4" F x 1/2" M	19 F x 12.7 M	2 1/6"	52.4	186	0.41	4500

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



3/4" F x 1/2" M
F - Female
M - Male
* Guarantee does not apply to adapters.



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1/2" DRIVE SETS, ACCESSORIES, SOCKETS



The 1/2" socket line, like the 3/8" line, is used primarily for automotive maintenance and general mechanical work. They can withstand higher torques and more work space is needed to use them, but they have broader application ranges: Socket hex sizes: 1/4" to 1-7/16" and 8-36 mm. Torque applications for sockets, handles, and accessories: 1100-5000 in-lbs

12-POINT SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE

54XX



CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END in	DRIVE END in			grs.	lbs	lb-in
5408	1/4"	6.5	1 1/2"	38.1	1/2"	7/8"	7/16"	I	40	0.09	1100
5410	5/16"	7.9	1 1/2"	38.1	1/2"	7/8"	7/16"	I	45	0.10	1100
5412	3/8"	9.5	1 1/2"	38.1	9/16"	7/8"	7/16"	I	50	0.11	1100
5414	7/16"	11.1	1 1/2"	38.1	5/8"	7/8"	7/16"	I	57	0.13	1500
5416	1/2"	12.7	1 1/2"	38.1	3/4"	7/8"	7/16"	I	58	0.13	2000
5417	17/32"	13.4	1 1/2"	38.1	13/16"	7/8"	1/2"	I	60	0.13	2000
5418	9/16"	14.2	1 1/2"	38.1	13/16"	7/8"	1/2"	I	63	0.14	2600
5419	19/32"	15.0	1 1/2"	38.1	7/8"	7/8"	1/2"	II	78	0.17	2600
5420	5/8"	15.8	1 1/2"	38.1	15/16"	15/16"	1/2"	II	78	0.17	3300
5422	11/16"	17.4	1 1/2"	38.1	15/16"	15/16"	1/2"	II	80	0.18	4100
5424	3/4"	19.0	1 1/2"	38.1	1"	1"	9/16"	II	90	0.20	5000
5425	25/32"	19.8	1 1/2"	38.1	1 1/8"	1 1/8"	9/16"	II	105	0.23	5000
5426	13/16"	20.6	1 1/2"	38.1	1 1/8"	1 1/8"	9/16"	II	100	0.22	5000
5428	7/8"	22.2	1 9/16"	38.1	1 3/16"	1 3/16"	5/8"	II	133	0.29	5000
5429	29/32"	23.0	1 9/16"	38.1	1 1/4"	1 1/4"	5/8"	II	130	0.29	5000
5430	15/16"	23.8	1 5/8"	38.1	1 1/4"	1 1/4"	11/16"	II	132	0.29	5000
5431	31/32"	24.0	1 5/8"	38.1	1 1/4"	1 1/4"	11/16"	II	135	0.30	5000
5432	1"	25.4	1 5/8"	39.7	1 5/16"	1 5/16"	11/16"	II	140	0.31	5000
5434	1 1/16"	26.9	1 11/16"	41.3	1 7/16"	1 7/16"	3/4"	II	140	0.31	5000
5436	1 1/8"	28.5	1 11/16"	44.5	1 1/2"	1 1/2"	3/4"	II	145	0.32	5000
5438	1 3/16"	30.1	1 13/16"	44.5	1 9/16"	1 9/16"	13/16"	II	145	0.32	5000
5440	1 1/4"	31.7	1 13/16"	44.5	1 5/8"	1 5/8"	13/16"	II	150	0.33	5000
5442	1 5/16"	33.0	1 13/16"	44.0	1 3/4"	1 3/4"	13/16"	II	160	0.35	5000
5444	1 3/8"	35.0	1 7/8"	44.0	1 13/16"	1 13/16"	13/16"	II	160	0.40	5000
5446	1 7/16"	37.0	1 7/8"	51.0	1 7/8"	1 7/8"	13/16"	II	190	0.42	5000
5448	1 1/2"	38.0	1 7/8"	57.0	1 5/8"	1 5/8"	13/16"	II	160	0.35	5000



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123

6-POINT SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE

54XXH



CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END in	DRIVE END in			grs.	lbs	lb-in
5408H*	1/4"	6.5	1 1/2"	38.1	1/2"	7/8"	7/16"	I	40	0.09	1100
5410H*	5/16"	7.9	1 1/2"	38.1	1/2"	7/8"	7/16"	I	45	0.10	1100
5412H	3/8"	9.5	1 1/2"	38.1	9/16"	7/8"	7/16"	I	50	0.11	1100
5414H	7/16"	11.1	1 1/2"	38.1	5/8"	7/8"	7/16"	I	57	0.13	1500
5416H	1/2"	12.7	1 1/2"	38.1	3/4"	7/8"	7/16"	I	58	0.13	2000
5418H	9/16"	14.2	1 1/2"	38.1	13/16"	7/8"	1/2"	I	63	0.14	2600
5419H*	19/32"	15.0	1 1/2"	38.1	7/8"	7/8"	1/2"	II	78	0.17	2600
5420H	5/8"	15.8	1 1/2"	38.1	15/16"	15/16"	1/2"	II	78	0.17	3300
5422H	11/16"	17.4	1 1/2"	38.1	15/16"	15/16"	1/2"	II	80	0.18	4100
5424H	3/4"	19.0	1 1/2"	38.1	1"	1"	9/16"	II	90	0.20	5000
5425H	25/32"	19.8	1 1/2"	38.1	1 1/8"	1 1/8"	9/16"	II	105	0.23	5000
5426H	13/16"	20.6	1 1/2"	38.1	1 1/8"	1 1/8"	9/16"	II	100	0.22	5000
5428H	7/8"	22.2	1 9/16"	38.1	1 3/16"	1 3/16"	5/8"	II	133	0.29	5000
5430H	15/16"	23.8	1 5/8"	38.1	1 1/4"	1 1/4"	5/8"	II	132	0.29	5000
5432H	1"	25.4	1 5/8"	39.7	1 5/16"	1 5/16"	11/16"	II	140	0.31	5000
5434H	1 1/16"	26.9	1 11/16"	41.3	1 7/16"	1 7/16"	3/4"	II	140	0.31	5000
5436H	1 1/8"	28.5	1 11/16"	44.5	1 1/2"	1 1/2"	3/4"	II	145	0.32	5000
5438H	1 3/16"	30.1	1 13/16"	44.5	1 9/16"	1 9/16"	13/16"	II	145	0.32	5000
5440H	1 1/4"	31.7	1 13/16"	44.5	1 5/8"	1 5/8"	13/16"	II	150	0.33	5000
5442H	1 5/16"	33.0	1 13/16"	44.0	1 3/4"	1 3/4"	13/16"	II	160	0.35	5000
5444H	1 3/8"	35.0	1 7/8"	44.0	1 13/16"	1 13/16"	13/16"	II	180	0.40	5000
5446H	1 7/16"	37.0	1 7/8"	51.0	1 7/8"	1 7/8"	13/16"	II	190	0.42	5000
5448H	1 1/2"	63.5	1 7/8"	55.5	1 7/8"	1 7/8"	13/16"	II	190	0.42	5000

* 4 point socket



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123

12-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE

53XX

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END	DRIVE END			grs.	lbs	lb-in
5316	1/2"	12.7	3 1/16"	77.0	3/4"	7/8"	1/2"	I	120	0.26	2000
5318	9/16"	14.3	3 1/16"	77.0	13/16"	15/16"	11/16"	I	123	0.27	2600
5320	5/8"	15.9	3 1/16"	77.0	15/16"	15/16"	11/16"	II	149	0.33	3300
5322	11/16"	17.4	3 1/16"	78.0	15/16"	15/16"	11/16"	II	160	0.35	4100
5324	3/4"	19.0	3 1/16"	78.0	1"	1"	3/4"	II	160	0.35	5000
5326	13/16"	20.6	3 1/16"	78.0	1 1/8"	1 1/8"	3/4"	II	190	0.42	5000
5328	7/8"	22.2	3 1/16"	78.0	1 3/16"	1 3/16"	15/16"	II	210	0.46	5000
5330	15/16"	23.8	3 1/16"	78.0	1 1/4"	1 1/4"	15/16"	II	290	0.64	5000
5332	1"	25.4	3 1/16"	78.0	1 3/8"	1 3/8"	15/16"	II	298	0.66	5000
5334	1 1/16"	26.9	3 1/16"	78.0	1 7/16"	1 7/16"	15/16"	II	320	0.71	5000
5336	1 1/8"	28.5	3 1/16"	78.0	1 1/2"	1 1/2"	15/16"	II	340	0.75	5000
5340	1 1/4"	31.7	3 1/16"	78.0	1 11/16"	1 11/16"	15/16"	II	390	0.86	5000



TYPE I

TYPE II

6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 1/2" DRIVE

53XXH

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END	DRIVE END			grs.	lbs	lb-in
5312H	3/8"	9.5	3 1/16"	77.0	9/16"	7/8"	1/2"	I	120	0.26	2000
5314H	7/16"	11.1	3 1/16"	77.0	5/8"	7/8"	1/2"	I	123	0.27	2600
5316H	1/2"	12.7	3 1/16"	77.0	3/4"	7/8"	1/2"	I	149	0.33	3300
5318H	9/16"	14.3	3 1/16"	77.0	13/16"	15/16"	11/16"	I	160	0.35	4100
5320H	5/8"	15.9	3 1/16"	77.0	15/16"	15/16"	11/16"	II	160	0.35	5000
5322H	11/16"	17.4	3 1/16"	78.0	15/16"	15/16"	11/16"	II	190	0.42	5000
5324H	3/4"	19.0	3 1/16"	78.0	1"	1"	3/4"	II	210	0.46	5000
5326H	13/16"	20.6	3 1/16"	78.0	1 1/8"	1 1/8"	15/16"	II	290	0.64	5000
5328H	7/8"	22.2	3 1/16"	78.0	1 3/16"	1 3/16"	15/16"	II	298	0.66	5000
5330H	15/16"	23.8	3 1/16"	78.0	1 1/4"	1 1/4"	15/16"	II	320	0.71	5000
5332H	1"	25.4	3 1/16"	78.0	1 3/8"	1 3/8"	15/16"	II	340	0.75	5000
5334H	1 1/16"	26.9	3 1/16"	78.0	1 7/16"	1 7/16"	15/16"	II	390	0.86	5000
5336H	1 1/8"	28.5	3 1/16"	78.0	1 1/2"	1 1/2"	15/16"	II	400	0.88	5000
5340H	1 1/4"	31.7	3 1/16"	78.0	1 11/16"	1 11/16"	15/16"	II	540	1.19	5000
5348H	1 1/2"	38.1	3 1/16"	78.0	1 15/16"	1 15/16"	15/16"	III	650	1.43	5000



TYPE I

TYPE II

12-POINT METRIC SOCKETS, 1/2" DRIVE

54XXM



TYPE I

TYPE II

CODE	HEX SIZE	LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH		
		mm	in	HEX END mm	DRIVE END mm			ASME/ANSI B107.5M	ASME/ANSI B107.5M	
5408M	8	1 1/2"	38.1	14.2	21.8	11.1	I	41	0.09	973
5409M	9	1 1/2"	38.1	14.2	21.8	11.1	I	45	0.10	973
5410M	10	1 1/2"	38.1	14.4	22.1	6.7	I	54	0.12	1354
5411M	11	1 1/2"	38.1	17.0	22.1	8.7	I	58	0.13	1504
5412M	12	1 1/2"	38.1	18.5	22.1	8.9	I	60	0.13	1796
5413M	13	1 1/2"	38.1	19.0	22.1	9.0	I	68	0.15	2203
5414M	14	1 1/2"	38.1	20.5	22.1	9.0	I	64	0.14	2495
5415M	15	1 1/2"	38.1	22.1	22.1	11.1	II	79	0.17	3000
5416M	16	1 1/2"	38.1	23.7	23.7	11.7	II	70	0.15	3601
5417M	17	1 1/2"	38.1	25.3	25.3	12.7	II	88	0.19	4203
5418M	18	1 1/2"	38.1	26.9	26.9	14.2	II	90	0.20	4796
5419M	19	1 1/2"	38.1	26.9	26.9	14.9	II	92	0.20	5000
5420M	20	1 1/2"	38.1	28.5	28.5	15.7	II	100	0.22	5044
5421M	21	1 1/2"	38.1	28.5	28.5	16.5	II	105	0.23	5044
5422M	22	1 1/2"	38.1	31.7	31.7	23.0	II	130	0.29	5044
5423M	23	1 1/2"	38.1	31.7	31.7	24.0	II	137	0.30	5044
5424M	24	1 1/2"	38.1	31.7	31.7	25.1	II	137	0.30	5044
5425M	25	1 9/16"	39.7	34.9	34.9	20.1	II	140	0.31	5044
5426M	26	1 9/16"	39.7	34.9	34.9	20.1	II	152	0.34	5044
5427M	27	1 5/8"	41.3	36.5	36.5	19.0	II	163	0.36	5044
5428M	28	1 3/4"	44.5	38.1	38.1	19.0	II	190	0.42	5044
5429M	29	1 3/4"	44.5	38.1	38.1	19.8	II	200	0.44	5044
5430M	30	1 3/4"	44.5	41.2	41.2	19.8	II	208	0.46	5044
5431M	31	1 3/4"	44.5	41.2	41.2	20.5	II	215	0.47	5044
5432M	32	1 3/4"	44.5	41.2	41.2	20.5	II	130	0.29	5044
5434M	34	1 13/16"	50.8	47.6	47.6	34.9	II	240	0.53	5044
5436M	36	1 7/8"	50.8	50.8	50.8	34.9	II	245	0.54	5044



STANDARDS:
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



6-POINT METRIC SOCKETS, 1/2" DRIVE

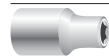
54XXHM



TYPE I

TYPE II

CODE	HEX SIZE	LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH		
		mm	in	HEX END mm	DRIVE END mm			ASME/ANSI B107.5	ASME/ANSI B107.5	
5408HM	8	1 1/2"	38.1	14.2	21.8	11.1	I	41	0.09	973
5409HM	9	1 1/2"	38.1	14.2	21.8	11.1	I	45	0.10	973
5410HM	10	1 1/2"	38.1	14.2	21.8	6.7	I	54	0.12	1354
5411HM	11	1 1/2"	38.1	17.0	21.8	12.7	I	58	0.13	1504
5412HM	12	1 1/2"	38.1	18.6	21.8	12.7	I	60	0.13	1796
5413HM	13	1 1/2"	38.1	18.6	21.8	12.7	I	68	0.15	2203
5414HM	14	1 1/2"	38.1	20.6	21.8	12.7	I	64	0.14	2495
5415HM	15	1 1/2"	38.1	21.8	21.8	12.7	II	79	0.17	3000
5416HM	16	1 1/2"	38.1	22.2	22.2	14.2	II	70	0.15	3601
5417HM	17	1 1/2"	38.1	24.2	24.2	14.2	II	88	0.19	4203
5418HM	18	1 1/2"	38.1	24.2	24.2	14.2	II	90	0.20	4796
5419HM	19	1 1/2"	38.1	26.5	26.5	19.0	II	92	0.20	5000
5420HM	20	1 1/2"	38.1	26.9	26.9	20.6	II	100	0.22	5044
5421HM	21	1 1/2"	38.1	28.5	28.5	20.6	II	105	0.23	5044
5422HM	22	1 1/2"	38.1	30.1	30.1	22.2	II	130	0.29	5044
5423HM	23	1 1/2"	38.1	30.1	30.1	22.2	II	137	0.30	5044
5424HM	24	1 9/16"	39.7	31.7	31.7	22.2	II	137	0.30	5044
5425HM	25	1 9/16"	39.7	33.3	33.3	22.2	II	140	0.31	5044
5426HM	26	1 9/16"	39.7	34.9	34.9	23.8	II	152	0.34	5044
5427HM	27	1 5/8"	41.3	36.5	36.5	23.8	II	163	0.36	5044
5428HM	28	1 3/4"	44.5	38.1	38.1	25.4	II	190	0.42	5044
5429HM	29	1 3/4"	44.5	38.1	38.1	25.4	II	200	0.44	5044
5430HM	30	1 3/4"	44.5	41.2	41.2	25.4	II	208	0.46	5044
5432HM	32	1 3/4"	44.5	42.8	42.8	25.4	II	130	0.29	5044
5434HM	34	1 13/16"	50.8	47.6	47.6	34.9	II	240	0.53	5044
5436HM	36	1 7/8"	50.8	50.8	50.8	34.9	II	245	0.54	5044



STANDARDS:
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123

12-POINT DEEP METRIC SOCKETS, 1/2" DRIVE

53XXM

CODE	HEX SIZE	LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.5M		
		mm	in	mm	mm			grs.	lbs	lb-in
5310M	10	3 1/16"	77.0	15.0	22.0	22.0	I	50	0.11	1354
5311M	11	3 1/16"	77.0	16.0	22.0	22.0	I	55	0.12	1504
5312M	12	3 1/16"	77.0	17.0	22.0	22.0	I	57	0.13	1796
5313M	13	3 1/16"	77.0	19.0	22.0	22.0	I	60	0.13	2204
5314M	14	3 1/16"	77.0	20.0	22.0	32.0	I	62	0.14	2496
5315M	15	3 1/16"	77.0	22.0	22.0	32.0	I	64	0.14	3000
5316M	16	3 1/16"	78.0	22.2	22.2	25.4	II	72	0.16	3602
5317M	17	3 1/16"	78.0	23.8	23.8	25.4	II	78	0.17	4204
5318M	18	3 1/16"	78.0	25.4	25.4	25.4	II	82	0.18	4796
5319M	19	3 1/16"	78.0	26.9	26.9	25.4	II	85	0.19	5000
5320M	20	3 1/16"	78.0	26.9	26.9	25.4	II	90	0.20	5044
5321M	21	3 1/16"	78.0	28.5	28.5	25.4	II	100	0.22	5044
5322M	22	3 1/16"	78.0	30.1	30.1	25.4	II	110	0.24	5044
5323M	23	3 1/16"	78.0	30.1	30.1	31.7	II	113	0.25	5044
5324M	24	3 1/16"	78.0	31.7	31.7	31.7	II	120	0.26	5044
5325M	25	3 1/16"	78.0	31.7	31.7	31.7	II	130	0.29	5044
5326M	26	3 1/16"	78.0	33.3	33.3	31.7	II	135	0.30	5044
5327M	27	3 1/16"	78.0	34.9	34.9	31.7	II	138	0.30	5044
5328M	28	3 1/16"	78.0	36.5	36.5	31.7	II	150	0.33	5044
5329M	29	3 1/16"	78.0	38.1	38.1	31.7	II	170	0.37	5044
5330M	30	3 1/16"	78.0	41.2	41.2	31.7	II	190	0.42	5044
5331M	31	3 1/16"	78.0	42.8	42.8	31.7	II	200	0.44	5044
5332M	32	3 1/16"	78.0	42.8	42.8	31.7	II	250	0.55	5044



SUPER DRIVE

STANDARDS:
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



TYPE I



TYPE II

6-POINT DEEP METRIC SOCKETS, 1/2" DRIVE

53XXHM

CODE	HEX SIZE	LENGTH		OUTER DIAMETER		HEX DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.5M		
		mm	in	mm	mm			grs.	lbs	lb-in
5310HM	10	3 1/16"	77.0	15.0	22.0	14.0	I	108	0.24	1354
5311HM	11	3 1/16"	77.0	16.0	22.0	14.0	I	111	0.24	1504
5312HM	12	3 1/16"	77.0	17.0	22.0	14.0	I	127	0.28	1796
5313HM	13	3 1/16"	77.0	19.0	22.0	14.0	I	134	0.30	2204
5314HM	14	3 1/16"	77.0	21.0	23.0	17.0	I	137	0.30	2496
5315HM	15	3 1/16"	78.0	21.4	21.4	25.4	II	142	0.31	3000
5316HM	16	3 1/16"	78.0	21.8	21.8	25.4	II	150	0.33	3602
5317HM	17	3 1/16"	78.0	23.8	23.8	25.4	II	161	0.35	4204
5318HM	18	3 1/16"	78.0	25.7	25.7	25.4	II	172	0.38	4796
5319HM	19	3 1/16"	78.0	26.1	26.1	25.4	II	166	0.37	5000
5320HM	20	3 1/16"	78.0	26.9	26.9	25.4	II	168	0.37	5044
5321HM	21	3 1/16"	78.0	28.5	28.5	25.4	II	172	0.38	5044
5322HM	22	3 1/16"	78.0	30.1	30.1	25.4	II	181	0.40	5044
5323HM	23	3 1/16"	78.0	30.1	30.1	31.7	II	190	0.42	5044
5324HM	24	3 1/16"	78.0	31.7	31.7	31.7	II	195	0.43	5044
5325HM	25	3 1/16"	78.0	31.7	31.7	31.7	II	204	0.45	5044
5326HM	26	3 1/16"	78.0	33.3	33.3	31.7	II	213	0.47	5044
5327HM	27	3 1/16"	78.0	34.9	34.9	31.7	II	227	0.50	5044



SUPER DRIVE

STANDARDS:
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



TYPE I



TYPE II

SPARKPLUG SOCKETS, 1/2" DRIVE WITH NEOPRENE

532XXX

CODE	TIP SIZE		DIAMETER		TOTAL LENGTH		TIP WEIGHT		TORQUE STRENGTH ASME/ANSI B107.34
	in	mm	in	mm	in	mm	grs	LBS	
532050	5/8"	15.8	27/32"	6.8	2 1/2"	63.5	100	0.22	5000
5326HPA	13/16"	20.6	1 3/32"	6.4	2 17/32"	64.3	128	0.28	5000



STANDARDS: ASME/ANSI B107.4
ISO 11168



532050



5326HPA

3

SOCKETS WITH HEX TIPS IN FRACTIONAL SIZES, 1/2" DRIVE

5441-X/X

CODE	TIP SIZE		TIP LENGTH		TOTAL LENGTH		TIP WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
5441-1/4	1/4"	6.3	1 3/4"	44.5	3 1/4"	82.6	73	0.16
5441-5/16	5/16"	7.9	1 3/4"	44.5	3 1/4"	82.6	86	0.18
5441-3/8	3/8"	9.5	1 3/4"	44.5	3 1/4"	82.6	100	0.22
5441-7/16	7/16"	11.1	1 3/4"	44.5	3 1/4"	82.6	111	0.24
5441-1/2	1/2"	12.7	1 7/8"	47.6	3 5/8"	92.0	120	0.26
5441-9/16	9/16"	14.2	1 7/8"	47.6	3 5/8"	92.0	229	0.50
5441-5/8	5/8"	15.8	2"	50.8	4"	101.6	391	0.86



SOCKETS WITH HEX TIPS IN METRIC SIZES, 1/2" DRIVE

5441XXM

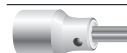
CODE	TIP SIZE	TIP LENGTH		TOTAL LENGTH		TIP WEIGHT	
		in	mm	in	mm	grs	lbs
54416M	6	1 3/4"	44.5	3 1/4"	82.6	69	0.15
54418M	8	1 3/4"	44.5	3 1/4"	82.6	86	0.18
544110M	10	1 3/4"	44.5	3 1/4"	82.6	103	0.22
544112M	12	1 3/4"	44.5	3 1/4"	82.6	121	0.26
544114M	14	1 7/8"	47.6	3 5/8"	92.2	219	0.48
544117M	17	2"	50.8	4"	101.6	403	0.88



SOCKETS WITH TORX TIPS, 1/2" DRIVE

5439XXW

CODE	TIP SIZE	TIP LENGTH		TOTAL LENGTH		TIP WEIGHT	
		in	mm	in	mm	grs	lbs
543920W	T20	1 3/4"	44.5	3 1/4"	82.6	69	0.15
543925W	T25	1 3/4"	44.5	3 1/4"	82.6	70	0.15
543930W	T30	1 3/4"	44.5	3 1/4"	82.6	70	0.15
543940W	T40	1 3/4"	44.5	3 1/4"	82.6	66	0.14
543945W	T45	1 7/8"	47.6	3 5/8"	92.2	83	0.18
543950W	T50	1 7/8"	47.6	3 5/8"	92.2	83	0.18
543955W	T55	2"	50.8	4"	101.6	102	0.22












SET OF 12-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/4" DRIVE

55104

29 PIECES

SET OF 29 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/4" DRIVE, IN METAL BOX










CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	SIZE
 5528	7/8"	5544	1 3/8"	5560	1 7/8"	 3/4"	5649 24 teeth, 20"	 3/4"	5670 3 3/4"
5530	15/16"	5546	1 7/16"	5564	2"	 3/4"	5660 4"	 3/4"	5685 18"
5532	1"	5548	1 1/2"	5568	2 1/8"		5661 8"		5663 16"
 5534	1 1/16"	5550	1 9/16"	5570	2 3/16"	 3/4"	5668 20 3/16"	 3/4"	5696 60.0 x 23.5 x 9.0 cm
5536	1 1/8"	5552	1 5/8"	5572	2 1/4"				
5538	1 3/16"	5554	1 11/16"	5576	2 3/8"				
 5540	1 1/4"	5556	1 3/4"						
5542	1 5/16"	5558	1 13/16"						



5500C

23 PIECES

SET OF 23 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/4" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	SIZE
 5524	3/4"	5542	1 5/16"	 3/4"	5649 24 teeth, 20"	 3/4"	5670 3 3/4"
5526	13/16"	5544	1 3/8"	 3/4"	5661 8"	 3/4"	5686 16"
5528	7/8"	5546	1 7/16"		5663 16"		
 5530	15/16"	5548	1 1/2"	 3/4"	5668 20 3/16"	 3/4"	5696 60.0 x 23.5 x 9.0 cm
5532	1"	5550	1 9/16"				
5534	1 1/16"	5552	1 5/8"				
 5536	1 1/8"	5554	1 11/16"				
5538	1 3/16"	5556	1 3/4"				
5540	1 1/4"						



55109

18 PIECES

SET OF 18 12-POINT SOCKETS IN FRACTIONAL SIZES, 3/4" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5528	7/8"	5540	1 1/4"	5552	1 5/8"	5285	Rail for clips and sockets, 9"
5530	15/16"	5542	1 5/16"	5554	1 11/16"	2593	Socket clips
5532	1"	5544	1 3/8"	5556	1 3/4"		
5534	1 1/16"	5546	1 7/16"	5558	1 13/16"		
5536	1 1/8"	5548	1 1/2"	5560	1 7/8"		
5538	1 3/16"	5550	1 9/16"	5564	2"		



5500NR

11 PIECES

SET OF 11 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/4" DRIVE, IN METAL BOX

CODE	SIZE	CODE	DESCRIPTION
5534	1 1/16"	5649	24 teeth, 20"
5536	1 1/8"	5661	8"
5540	1 1/4"	5685	18"
5542	1 5/16"	5696	60.0 x 23.5 x 9.0 cm
5546	1 7/16"		
5548	1 1/2"		
5552	1 5/8"		
5556	1 3/4"		



SET OF 6-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/4" DRIVE

55102H

20 PIECES

SET OF 20 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/4" DRIVE, IN METAL BOX







CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	SIZE
5530H	15/16"	5548H	1 1/2"	5649	24 teeth, 20"	5670	3 3/4"
5534H	1 1/16"	5550H	1 9/16"	5661	8"	5685	18"
5536H	1 1/8"	5552H	1 5/8"	5663	16"	5696	60.0 x 23.5 x 9.0 cm
5538H	1 3/16"	5554H	1 11/16"	5668	20 3/16"		
5540H	1 1/4"	5558H	1 13/16"				
5542H	1 5/16"	5560H	1 7/8"				
5546H	1 7/16"	5564H	2"				



55100H

16 PIECES

SET OF 16 6-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 3/4" DRIVE, IN METAL BOX






CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5530H	15/16"	5548H	1 1/2"	 3/4" 5649	24 teeth, 20"
5534H	1 1/16"	5550H	1 9/16"	 3/4" 5661	8"
5536H	1 1/8"	5552H	1 5/8"		
 5538H	1 3/16"	5554H	1 11/16"	 5696	60.0x23.5x9.0 cm
5540H	1 1/4"	5558H	1 13/16"		
5542H	1 5/16"	5560H	1 7/8"		
 5546H	1 7/16"	5564H	2"		



55113

14 PIECES

SET OF 14 6-POINT SOCKETS IN FRACTIONAL SIZES, 3/4" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5530H	15/16"	5548H	1 1/2"	 5285	Rail for clips and sockets, 9"
5534H	1 1/16"	5550H	1 9/16"	 2593	Socket clips
5536H	1 1/8"	5552H	1 5/8"		
 5538H	1 3/16"	5554H	1 11/16"		
5540H	1 1/4"	5558H	1 13/16"		
5542H	1 5/16"	5560H	1 7/8"		
 5546H	1 7/16"	5564H	2"		








SETS OF 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/4" DRIVE

55111

13 PIECES

SET OF 13 6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/4" DRIVE, ON RAIL AND CLIPS

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5528HL	7/8"	5542HL	1 5/16"	 5285	Rail for clips and sockets, 9"
5530HL	15/16"	5544HL	1 3/8"	 2593	Socket clips
5532HL	1"	5546HL	1 7/16"		
 5534HL	1 1/16"	5548HL	1 1/2"		
5536HL	1 1/8"	5550HL	1 9/16"		
5538HL	1 3/16"	5552HL	1 5/8"		
 5540HL	1 1/4"				












SET OF 12-POINT METRIC HAND SOCKETS WITH ACCESSORIES, 3/4" DRIVE

55202

28 PIECES

SET OF 28 12-POINT METRIC SOCKETS WITH ACCESSORIES, 3/4" DRIVE, IN METAL BOX








CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	SIZE
 5521M	21 mm	5529M	29 mm	5546M	46 mm	 5649	24 teeth, 20"	 5670	3 3/4"
5522M	22 mm	5530M	30 mm	5550M	50 mm	 5660	4"	 5685	18"
5523M	23 mm	5532M	32 mm	5554M	54 mm		5661		8"
 5524M	24 mm	5535M	35 mm	5555M	55 mm	 5668	20 3/16"	 5696	60.0x23.5x9.0 cm
5525M	25 mm	5536M	36 mm	5558M	58 mm				
5526M	26 mm	5538M	38 mm	5560M	60 mm				
 5527M	27 mm	5541M	41 mm						
5528M	28 mm	5542M	42 mm						



55200

19 PIECES

SET OF 19 12-POINT METRIC SOCKETS WITH ACCESSORIES, 3/4" DRIVE, IN METAL BOX






CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5524M	24 mm	5532M	32 mm	 5649	24 teeth, 20"
5525M	25 mm	5535M	35 mm	 5661	8"
5526M	26 mm	5536M	36 mm		5663
 5527M	27 mm	5538M	38 mm	 5668	20 3/16"
5528M	28 mm	5541M	41 mm		
5529M	29 mm	5542M	42 mm		
 5530M	30 mm	5546M	46 mm	 5696	60.0x23.5x9.0 cm
5531M	31 mm				



55205

17 PIECES

SET OF 17 12-POINT METRIC SOCKETS, 3/4" DRIVE, ON RAIL AND CLIPS

	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	5522M	22 mm	5528M	28 mm	5538M	38 mm		5285 Rail for clips and sockets, 9"
	5523M	23 mm	5529M	29 mm	5541M	41 mm		
	5524M	24 mm	5530M	30 mm	5542M	42 mm		2593 Socket clips
	5525M	25 mm	5532M	32 mm	5546M	46 mm		
	5526M	26 mm	5535M	35 mm	5550M	50 mm		
	5527M	27 mm	5536M	36 mm				











SET OF 6-POINT METRIC HAND SOCKETS WITH ACCESSORIES, 3/4" DRIVE

55200H

19 PIECES

SET OF 19 6-POINT METRIC SOCKETS WITH ACCESSORIES, 3/4" DRIVE, IN METAL BOX






	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	5519HM	19 mm	5533HM	33 mm		5649 24 teeth, 20"
	5522HM	22 mm	5534HM	34 mm		
	5524HM	24 mm	5536HM	36 mm		5661 8"
	5525HM	25 mm	5538HM	38 mm		
	5527HM	27 mm	5541HM	41 mm		5663 16"
	5528HM	28 mm	5546HM	46 mm		
	5530HM	30 mm	5550HM	50 mm		5668 20 3/16"
	5532HM	32 mm				
						5696 60.0 x 23.5 x 9.0 cm



55207

15 PIECES

SET OF 15 6-POINT METRIC SOCKETS, 3/4" DRIVE, ON RAIL AND CLIPS

	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
	5519HM	19 mm	5533HM	33 mm		5285 Rail for clips and sockets, 9"
	5522HM	22 mm	5534HM	34 mm		
	5524HM	24 mm	5536HM	36 mm		2593 Socket clips
	5525HM	25 mm	5538HM	38 mm		
	5527HM	27 mm	5541HM	41 mm		
	5528HM	28 mm	5546HM	46 mm		
	5530HM	30 mm	5550HM	50 mm		
	5532HM	32 mm				



REVERSIBLE RATCHET HANDLES, 3/4" DRIVE

Ratchet handles are used with sockets; the ratchet is the lever arm that lets you apply torque through the socket attached to it. The reversible mechanism lets you turn the socket in both directions, for tightening and loosening. The design and dimensions of 3/4" ratchet handles are ideal for maintenance work on trucks or in industrial plants with large machinery. The maximum recommended torque for a 3/4" ratchet handle is 12,000 in-lbs.



564958N

REVERSIBLE DOUBLE DRIVE PEAR-HEAD RATCHET HANDLE, 36 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH	
	in	mm	in	mm	ASME/ANSI B 107.10M	lb-in		
564958N	3/4" and 1"	19.0 and 25.4	20"	508.0	2650	5.73	12000	24



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



5649X

REVERSIBLE PEAR-HEAD RATCHET HANDLES, 24 TEETH

CODE	DRIVE SIZE		LENGTH		RESISTANCE		NO. OF GEAR TEETH	
	in	mm	in	mm	ASME/ANSI B 107.10M	lb-in		
5649Q	3/4"	19	20"	508.0	2641	5.82	12000	24
5649H	3/4"	19	20"	508.0	2673	5.89	12000	24
5649	3/4"	19	20"	508.0	2641	5.82	12000	24



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123

RUBBER GRIP

The QUICK RELEASE system has been added to the traditional pear-head ratchet mechanism, so you can attach and remove sockets and accessories effortlessly. This is especially important when working in the field with greases and oils that make sockets and accessories slippery, so that it becomes very difficult to remove them from the ratchet drive. With this system, you just push the button on the back of the ratchet head and the socket or accessory drops off.

Narrow head for access to tight spaces.

Gear with 24 teeth and 15-degree swing arc.



Traditional ratchet mechanism design with alloyed steel bolts, heat-treated in controlled-atmosphere furnaces to guarantee high strength and wear-resistance.

5649XXX

REPLACEMENT PARTS FOR REVERSIBLE RATCHET HANDLES, 3/4" DRIVE

CODE	DESCRIPTION
5649QRK	Set of replacement parts for ratchet handle Code: 5249Q
5649RK	Set of replacement parts for ratchet handle Codes: 5649H and 5649



5449QRK

5449RK

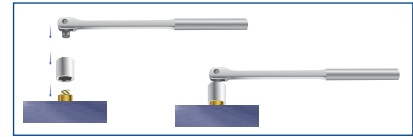
HINGE HANDLES 3/4" DRIVE

This is a lever arm with a drive that rotates 180 degrees so you can apply torque with different angles of attack. The maximum recommended torque for a 3/4" hinge handle is 9000 in-lbs.

5668X

CODE	DRIVE SIZE		LENGTH		RESISTANCE		
	in	mm	in	mm	grs	lbs	
5668	3/4"	19	20 3/16"	512.7	1769	3.89	9000
5668H	3/4"	19	20 3/16"	512.7	1750	3.85	9000

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



RUBBER GRIP



5668



5668H

5668RK

REPLACEMENT PARTS FOR HINGE HANDLE, 3/4" DRIVE

CODE	DESCRIPTION
5668RK	Set of replacement parts for hinge handle: Codes 5668 and 5668H



SLIDING BAR, 3/4" DRIVE

This is a lever arm with a drive that slides on the bar, so you can vary the distance between the socket's rotation center and the end where torque is applied. You can also position the drive in the center of the bar and use both hands to apply force. The maximum recommended torque for a 3/4" sliding bar is 9000 in-lbs.

5685

CODE	DRIVE SIZE		LENGTH		RESISTANCE		
	in	mm	in	mm	grs	lbs	
5685	3/4"	19	18"	457	1370	3.02	9000

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



"L" HANDLE, 3/4" DRIVE

This is a lever arm fixed at 90 degrees. The design is very strong because there are no moving parts.

3

5686

CODE	DRIVE SIZE		LENGTH		RESISTANCE		ASME/ANSI B 107.10M
	in	mm	in	mm	grs	lbs	
5686	3/4"	19	16"	406.4	1765	3.89	12500

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



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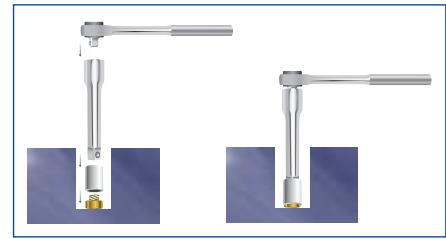
EXTENSIONS, 3/4" DRIVE

This accessory lets you work on screws in tight or deep spaces where a ratchet handle head can't reach; available in a variety of lengths. The maximum recommended torque for a 3/4" extension of any length is 9000 in-lbs.

566X

CODE	DRIVE SIZE		LENGTH		RESISTANCE		ASME/ANSI B 107.10M
	in	mm	in	mm	grs	lbs	
5660	3/4"	19	4"	101.6	412	0.90	9000
5661	3/4"	19	8"	203.2	594	1.30	9000
5663	3/4"	19	16"	406.4	1043	2.29	9000

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



UNIVERSAL JOINT, 3/4" DRIVE

This accessory makes the advantages of a hinge handle available to any fixed handle, such as a ratchet or sliding bar, so you can access nuts or bolts at a variety of angles. The maximum recommended torque for a 3/4" universal joint is 4000 in-lbs.

5670

CODE	DRIVE SIZE		LENGTH		RESISTANCE		ASME/ANSI B 107.10M
	in	mm	in	mm	grs	lbs	
5670	3/4"	19	3 3/4"	92.2	435	0.95	4000

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



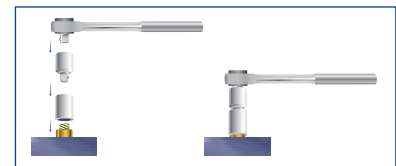
ADAPTERS, 3/4" DRIVE

These accessories let you work with 3/4" square drive sockets using 1/2" handles. The maximum recommended torque for adapters with 1/2" female drive and 3/4" male drive is 4500 in-lbs.

5653

CODE	DRIVE SIZE		LENGTH		RESISTANCE		ASME/ANSI B 107.10M
	in	mm	in	mm	grs	lbs	
5653	1/2" F x 3/4" M	12.7 F x 19 M	1 9/16"	39.6	96	0.21	4500

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



The 3/4" socket line is for heavy mechanical work such as truck or industrial plant maintenance. The application ranges are as follows: Socket hex sizes: 27/32" to 2-5/16" and 19-60 mm. Torque applications for sockets, handles, and accessories: from 6000 to 18,000 in-lbs.

12-POINT SOCKETS IN FRACTIONAL SIZES, 3/4" DRIVE

55XX

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX END DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END	SQUARE END			grs	lbs	lb-in
5524	3/4"	19.0	2"	50.8	1 1/8"	1 5/16"	3/4"	I	179	0.4	6000
5526	13/16"	20.6	2"	50.8	1 1/4"	1 5/16"	3/4"	I	172	0.4	6800
5528	7/8"	22.2	2"	50.8	1 5/16"	1 5/16"	3/4"	II	200	0.4	7700
5530	15/16"	23.8	2"	50.8	1 7/16"	1 7/16"	3/4"	II	210	0.5	8700
5532	1"	25.4	2"	50.8	1 1/2"	1 1/2"	3/4"	II	267	0.6	9700
5534	1 1/16"	26.9	2"	50.8	1 5/8"	1 5/8"	3/4"	II	267	0.6	10800
5536	1 1/8"	28.5	2 1/4"	57.1	1 5/8"	1 1/2"	1 5/16"	III	320	0.7	11900
5538	1 3/16"	30.1	2 1/4"	57.1	1 11/16"	1 1/2"	1 5/16"	III	320	0.7	13000
5540	1 1/4"	31.7	2 1/4"	57.1	1 13/16"	1 1/2"	1 5/16"	III	350	0.8	14200
5542	1 5/16"	33.3	2 3/8"	60.3	1 7/8"	1 1/2"	1 5/16"	III	420	0.9	15400
5544	1 3/8"	34.9	2 3/8"	60.3	1 15/16"	1 5/8"	1 5/16"	III	471	1.0	16700
5546	1 7/16"	36.5	2 1/2"	63.5	2"	1 5/8"	1 3/8"	III	500	1.1	18000
5548	1 1/2"	38.1	2 1/2"	63.5	2 1/16"	1 5/8"	1 3/8"	III	510	1.1	18000
5550	1 9/16"	39.6	2 5/8"	68.6	2 1/4"	1 3/4"	1 7/16"	III	600	1.3	18000
5552	1 5/8"	41.2	2 5/8"	68.6	2 1/4"	1 3/4"	1 7/16"	III	630	1.4	18000
5554	1 11/16"	42.8	2 3/4"	69.8	2 3/8"	1 3/4"	1 7/16"	III	780	1.7	18000
5556	1 3/4"	44.4	2 3/4"	69.8	2 3/8"	1 3/4"	1 7/16"	III	780	1.7	18000
5558	1 13/16"	46.0	2 7/8"	73.0	2 1/2"	1 3/4"	1 7/16"	III	800	1.8	18000
5560	1 7/8"	47.6	2 7/8"	76.2	2 5/8"	1 3/4"	1 7/16"	III	920	2.0	18000
5564	2"	50.8	2 7/8"	79.3	2 3/4"	1 15/16"	1 7/16"	III	1200	2.6	18000
5566	2 1/16"	52.3	2 7/8"	88.9	2 3/4"	1 15/16"	1 7/16"	III	1200	2.6	18000
5568	2 1/8"	53.9	3"	88.9	2 7/8"	1 15/16"	1 1/2"	III	1300	2.9	18000
5570	2 3/16"	55.5	3"	88.9	2 15/16"	1 15/16"	1 1/2"	III	1410	3.1	18000
5572	2 1/4"	57.1	3"	88.9	3"	1 15/16"	1 9/16"	III	1520	3.4	18000
5574	2 5/16"	58.7	3 1/16"	88.9	3 1/16"	1 15/16"	1 9/16"	III	1683	3.7	18000
5576	2 3/8"	60.3	3 1/16"	88.9	3 3/16"	1 15/16"	1 9/16"	III	1790	3.9	18000



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



TYPE I



TYPE II



TYPE III

3

6-POINT SOCKETS IN FRACTIONAL SIZES, 3/4" DRIVE

55XXH

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX END DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END	SQUARE END			grs	lbs	lb-in
5530H	15/16"	23.8	2"	50.8	1 7/16"	1 7/16"	11/16"	II	220	0.5	8700
5534H	1 1/16"	26.9	2"	50.8	1 5/8"	1 5/8"	3/4"	II	300	0.7	10800
5536H	1 1/8"	28.5	1 1/4"	57.1	1 5/8"	1 1/2"	1 3/16"	III	250	0.6	11900
5538H	1 3/16"	30.1	1 1/4"	57.1	1 11/16"	1 1/2"	1 3/16"	III	255	0.6	13000
5540H	1 1/4"	31.7	1 1/4"	57.1	1 13/16"	1 1/2"	1 3/16"	III	344	0.8	14200
5542H	1 5/16"	33.3	2 3/8"	60.3	1 7/8"	1 1/2"	1 1/4"	III	320	0.7	15400
5546H	1 7/16"	36.5	2 1/2"	63.5	2"	1 5/8"	1 3/8"	III	400	0.9	18000
5548H	1 1/2"	38.1	2 1/2"	63.5	2 1/16"	1 5/8"	1 3/8"	III	454	1.0	18000
5550H	1 9/16"	39.6	2 5/8"	66.6	2 1/4"	1 3/4"	1 7/16"	III	510	1.1	18000
5552H	1 5/8"	41.2	2 5/8"	66.6	2 1/4"	1 3/4"	1 7/16"	III	540	1.2	18000
5554H	1 11/16"	42.8	2 3/4"	69.8	2 3/8"	1 3/4"	1 9/16"	III	620	1.4	18000
5558H	1 13/16"	46.0	2 7/8"	73.0	2 1/2"	1 3/4"	1 11/16"	III	630	1.4	18000
5560H	1 7/8"	47.6	3"	76.2	2 5/8"	1 3/4"	1 3/4"	III	680	1.5	18000
5564H	2"	50.8	3 1/8"	79.3	2 3/4"	2"	1 7/8"	III	900	2.0	18000



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



TYPE II



TYPE III

6-POINT DEEP SOCKETS IN FRACTIONAL SIZES, 3/4" DRIVE

55XXHL

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX END DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	HEX END	SQUARE END			grs	lbs	lb-in
5528HL	7/8"	22.2	3 1/2"	88.9	1 3/8"	1 3/8"	1 7/16"	II	340	0.7	7700
5530HL	15/16"	23.8	3 1/2"	88.9	1 7/16"	1 7/16"	1 7/16"	II	340	0.7	8700
5532HL	1"	25.4	3 1/2"	88.9	1 1/2"	1 1/2"	1 7/16"	II	370	0.8	9700
5534HL	1 1/16"	26.9	3 1/2"	88.9	1 9/16"	1 9/16"	1 7/16"	II	440	1.0	10800
5536HL	1 1/8"	28.5	3 1/2"	88.9	1 5/8"	1 1/2"	1 7/16"	III	490	1.1	11900
5538HL	1 3/16"	30.1	3 1/2"	88.9	1 11/16"	1 1/2"	1 7/16"	III	520	1.1	13000
5540HL	1 1/4"	31.7	3 1/2"	88.9	1 13/16"	1 1/2"	1 7/16"	III	610	1.3	14200
5542HL	1 5/16"	33.3	3 1/2"	88.9	1 7/8"	1 1/2"	1 7/16"	III	530	1.2	15400
5544HL	1 3/8"	34.9	3 1/2"	88.9	1 15/16"	1 5/8"	1 7/16"	III	470	1.0	16700
5546HL	1 7/16"	36.5	3 1/2"	88.9	2"	1 5/8"	1 7/16"	III	510	1.1	18000
5548HL	1 1/2"	38.1	3 1/2"	88.9	2 1/16"	1 5/8"	1 7/16"	III	510	1.1	18000
5550HL	1 9/16"	39.6	3 1/2"	88.9	2 1/8"	1 3/4"	1 7/16"	III	670	1.5	18000
5552HL	1 5/8"	41.2	3 1/2"	88.9	2 1/4"	1 3/4"	1 7/16"	III	910	2.0	18000



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



TYPE II



TYPE III



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12-POINT METRIC SOCKETS, 3/4" DRIVE

55XXM

CODE	HEX SIZE	LENGTH		OUTER DIAMETER		HEX END DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.5M		
		in	mm	mm	mm			grs	lbs	lb-in
5519M	19	2"	49.2	30.1	31.7	15.8	I	205	0.5	7566
5520M	20	2"	49.2	30.1	31.7	15.8	I	205	0.5	8230
5521M	21	2"	49.2	30.1	31.7	15.8	I	210	0.5	8602
5522M	22	2"	49.2	34.9	36.5	15.8	I	210	0.5	8992
5523M	23	2"	49.2	34.9	38.1	15.8	I	211	0.5	9602
5524M	24	2"	49.2	36.5	39.6	15.8	I	220	0.5	10265
5525M	25	2"	50.8	36.5	39.6	15.8	I	220	0.5	10973
5526M	26	2"	50.8	38.1	39.6	15.8	I	225	0.5	11770
5527M	27	2"	53.9	39.6	39.6	19.0	I	228	0.5	12566
5528M	28	2"	55.5	39.6	39.6	19.0	II	230	0.5	13451
5529M	29	2 1/4"	57.1	41.2	41.2	22.2	II	325	0.7	14513
5530M	30	2 1/4"	57.1	42.8	42.8	22.2	II	330	0.7	15310
5531M	31	2 1/4"	57.1	44.4	44.4	22.2	II	340	0.7	16106
5532M	32	2 1/4"	57.1	46.0	46.0	22.2	II	360	0.8	16902
5533M	33	2 3/8"	63.5	47.6	47.6	25.4	II	385	0.8	17699
5534M	34	2 3/8"	63.5	47.6	47.6	25.4	II	420	0.9	17965
5535M	35	2 3/8"	66.6	49.2	49.2	25.4	III	440	1.0	17965
5536M	36	2 5/8"	66.6	50.8	50.8	25.4	III	530	1.2	17965
5538M	38	2 5/8"	66.6	53.9	53.9	25.4	III	630	1.4	17965
5540M	40	2 5/8"	66.6	55.5	55.5	25.4	III	700	1.5	17965
5541M	41	2 5/8"	66.6	57.1	57.1	25.4	III	730	1.6	17965
5542M	42	2 5/8"	66.6	57.1	57.1	25.4	III	810	1.8	17965
5544M	44	2 3/4"	82.5	63.5	63.5	31.7	III	900	2.0	17965
5546M	46	2 5/8"	82.5	63.5	63.5	31.7	III	1000	2.2	17965
5550M	50	3"	82.5	73.0	73.0	31.7	III	1120	2.5	17965
5554M	54	3"	82.5	76.2	76.2	31.7	III	1210	2.7	17965
5555M	55	3"	82.5	76.2	76.2	31.7	III	1300	2.9	17965
5558M	58	3 1/8"	82.5	79.3	79.3	31.7	III	1330	2.9	17965
5560M	60	3 1/8"	82.5	82.5	82.5	31.7	III	1410	3.1	17965



STANDARDS:
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



TYPE I



TYPE II



TYPE III



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6-POINT METRIC SOCKETS, 3/4" DRIVE

55XXHM

CODE	HEX SIZE	LENGTH		OUTER DIAMETER		HEX END DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.5M		
		in	mm	mm	mm			grs	lbs	lb-in
5519HM	19	2"	49.2	30.1	31.7	15.8	II	191	0.4	6903
5522HM	22	2"	49.2	34.9	38.1	15.8	II	240	0.5	8602
5524HM	24	2"	49.2	36.5	39.6	15.8	II	270	0.6	9602
5525HM	25	2"	50.8	36.5	39.6	15.8	II	300	0.7	10265
5527HM	27	2"	53.9	39.6	39.6	19.0	II	400	0.9	11770
5528HM	28	2"	55.5	39.6	39.6	19.0	II	450	1.0	12566
5530HM	30	2 1/4"	57.1	42.8	42.8	22.2	III	465	1.0	14513
5532HM	32	2 1/4"	57.1	46.0	46.0	22.2	III	500	1.1	16102
5533HM	33	2 3/8"	63.5	47.6	47.6	25.4	III	500	1.1	16902
5534HM	34	2 3/8"	63.5	47.6	47.6	25.4	III	530	1.2	17699
5536HM	36	2 1/2"	66.6	50.8	50.8	25.4	III	540	1.2	17955
5538HM	38	2 1/2"	66.6	53.9	53.9	25.4	III	560	1.2	17965
5541HM	41	2 5/8"	66.6	57.1	57.1	25.4	III	800	1.8	17699
5546HM	46	2 7/8"	82.5	63.5	63.5	31.7	III	800	1.8	17965
5550HM	50	3 1/8"	82.5	73.0	73.0	31.7	III	950	2.1	17965



TYPE II



TYPE III

STANDARDS: FEDERAL GGG-W-641
 ASME/ANSI B107.4
 ISO 3315, SAE AS 4283, DIN 3123

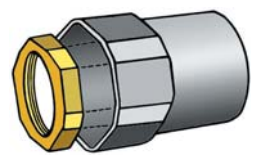
SOCKETS FOR TRUCK WHEEL BRAKE SHOES, 3/4" DRIVE

Sockets for tightening or loosening truck wheel bearings. In metric or inch series. These sockets are not recommended for use as impact tools, since they are not designed for that application.

P19XX

6-POINT AND 8-POINT SOCKETS IN FRACTIONAL SIZES FOR TRUCK WHEEL BRAKE SHOES, 3/4" DRIVE

CODE	HEX SIZE		DIAMETER		LENGTH			
	in	mm	in	in		mm	grs	lbs
P1902	2 3/8"	60.3	2 3/4"	3 1/2"	88.9	831	1.83	
*P1904	2 9/16"	65.0	2 7/8"	3 1/2"	88.9	895	1.97	
P1921	2 1/2"	63.5	2 7/8"	3 1/2"	88.9	865	1.90	
**P1908	3 1/4"	82.5	3 5/8"	3 1/2"	88.9	1225	2.70	
P1910	3 1/2"	88.9	3 15/16"	3 1/2"	88.9	1334	2.94	
*P1914	4"	101.6	4 3/8"	3 1/2"	88.9	1530	3.37	



P1902



P1908

* Rounded tips
 ** Octagonal socket (8-point)



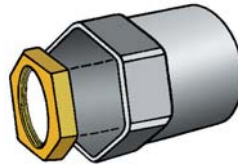
Code P1902
6-point sockets in standard sizes for truck wheel brake shoes, 3/4" drive

Once the locking nut and cotter pin on the drive axle are removed, these sockets are extremely useful for tightening or loosening truck brake shoes. These are available in metric and standard series. When in use they should be supported with a hand tool, since they are not designed for use as impact tools.

P19XXM

6-POINT METRIC SOCKETS FOR TRUCK WHEEL BRAKE SHOES, 3/4" DRIVE

CODE	HEX SIZE	DIAMETER	LENGTH		Scales	
	mm	mm	in	mm	grs	lbs
P1954M	54	60.3	3 1/2"	88.9	624	1.37
P1959M	59	66.6	3 1/2"	88.9	847	1.86



P1954M



AXLE ADJUSTMENT SOCKETS FOR 4-WHEEL DRIVE VEHICLES, 3/4" DRIVE

4-point pulling sockets for axle adjustment on units with 4-wheel drive systems. Suitable for: BLAZER, BRONCO, SCOUT (1986 USA*), CHEVROLET, GMC (1960 USA*), DODGE, INTERNATIONAL (1969 USA*). 6-point pulling sockets for axle adjustment on units with 4-wheel drive systems. Suitable for: FORD 3/4 TON (1978 USA*), GENERAL MOTORS 3/4 and 1 TON (1973-1981 USA*). *SUITABLE FOR MODELS FROM THIS YEAR AND LATER. These sockets are not recommended for use as impact tools, since they are not designed for that application.

P70XX

CODE	DIAMETER			LENGTH		Scales		No. TEETH
	in	in	mm	grs	lbs			
P7003	2 3/8"	3 1/2"	88.9	694	1.53	4		
P7004	2 3/8"	3 1/2"	88.9	688	1.51	6		



P7003

P7004

Code P7003

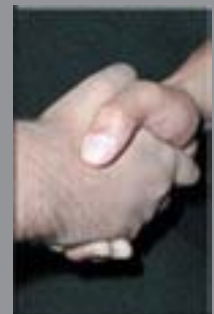
Axle adjustment sockets for 4-wheel drive vehicles, 3/4" drive

URREA 4-point or 6-point axle adjustment sockets are the ideal tool for tightening and loosening axles on the most common makes of 4-wheel drive vehicles. When in use they should be supported with hand tools, since they are not designed for use with power tools

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URREA Tools are designed to offer precision, quality, and strength. They are made by highly skilled and trained personnel, using the most sophisticated equipment, the best materials available and under the strictest specifications.



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


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SETS OF 12-POINT HAND SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1" DRIVE

57104

27 PIECES

SET OF 27 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1" DRIVE, IN METAL BOX









CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5734	1 1/16"	5758	1 13/16"	5782	2 9/16"	 5849	24 Teeth, 20"
5736	1 1/8"	5760	1 7/8"	5784	2 5/8"	 5861	8"
5740	1 1/4"	5764	2"	5788	2 3/4"	 5863	16"
 5742	1 5/16"	5768	2 1/8"	5794	2 15/16"	 5885	28 1/2"
5744	1 3/8"	5770	2 3/16"	5796	3"	 5896	88.9 x 30 x 11.6 cm
5746	1 7/16"	5772	2 1/4"	5800	3 1/8"		
 5748	1 1/2"	5776	2 3/8"	5812	3 1/2"		
5752	1 5/8"	5780	2 1/2"				



57102

20 PIECES

SET OF 20 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1" DRIVE, IN METAL BOX







CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5748	1 1/2"	5780	2 1/2"	 5849	24 Teeth, 20"
5752	1 5/8"	5782	2 9/16"	 5861	8"
5758	1 13/16"	5784	2 5/8"	 5863	16"
 5760	1 7/8"	5788	2 3/4"	 5885	28 1/2"
5764	2"	5794	2 15/16"	 5896	88.9 x 30 x 11.6 cm
5770	2 3/16"	5796	3"		
 5772	2 1/4"	5800	3 1/8"		
5776	2 3/8"	5812	3 1/2"		



5800A

15 PIECES

SET OF 15 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
 5740	1 1/4"	5772	2 1/4"	 5849	24 Teeth, 20"
5744	1 3/8"	5780	2 1/2"	 5886	30"
5748	1 1/2"	5784	2 5/8"	 5896	88.9 x 30 x 11.6 cm
 5752	1 5/8"	5788	2 3/4"		
5760	1 7/8"	5796	3"		
 5764	2"	5812	3 1/2"		
5768	2 1/8"				



57100

13 PIECES

SET OF 13 12-POINT SOCKETS IN FRACTIONAL SIZES WITH ACCESSORIES, 1" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5734	1 1/16"	5752	1 5/8"	5849	24 Teeth, 20"
5736	1 1/8"	5758	1 13/16"	5861	8"
5740	1 1/4"	5760	1 7/8"	5896	88.9 x 30 x 11.6 cm
5742	1 5/16"	5764	2"		
5744	1 3/8"				
5746	1 7/16"				
5748	1 1/2"				



3

SET OF 12-POINT METRIC HAND SOCKETS WITH ACCESSORIES, 1" DRIVE

57106

14 PIECES

SET OF 14 12-POINT METRIC SOCKETS WITH ACCESSORIES, 1" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION	CODE	SIZE
5736M	36 mm	5760M	60 mm	5849	24 Teeth, 20"	5885	28 1/2"
5741M	41 mm	5765M	65 mm	5861	8"	5886	30"
5746M	46 mm	5770M	70 mm	5870	20 3/16"	5896	88.9 x 30 x 11.6 cm
5750M	50 mm	5775M	75 mm				
5755M	55 mm						



5800AM

11 PIECES

SET OF 11 12-POINT METRIC SOCKETS WITH ACCESSORIES, 1" DRIVE, IN METAL BOX

CODE	SIZE	CODE	SIZE	CODE	DESCRIPTION
5736M	36 mm	5760M	60 mm	5849	24 Teeth, 20"
5741M	41 mm	5765M	65 mm	5886	30"
5746M	46 mm	5770M	70 mm	5896	88.9 x 30 x 11.6 cm
5750M	50 mm	5775M	75 mm		
5755M	55 mm				



REVERSIBLE RATCHET HANDLES, 1" DRIVE

Ratchet handles are used with sockets; the ratchet is the lever arm that lets you apply torque through the socket attached to it. The reversible mechanism lets you turn the socket in both directions, for tightening and loosening. The design and dimensions of 1" ratchet handles are ideal for installation, repair, and maintenance work in the petrochemical, extraction, mining, and other industries. The maximum recommended torque for a 1" ratchet handle is 22,000 in-lbs.

5849

REVERSIBLE PEAR-HEAD RATCHET HANDLE, 24 TEETH

CODE	DRIVE SIZE		LENGTH		STRENGTH		NO. OF GEAR TEETH
	in	mm	in	mm	grs	lbs	
5849	1"	254	26"	644.5	3000	6.61	22000

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4, ISO 3315, SAE AS 4283, DIN 3123



Traditional ratchet mechanism design with alloyed steel bolts, heat-treated in controlled-atmosphere furnaces to guarantee high strength and wear-resistance.



Narrow head for access to tight spaces.

Gear with 24 teeth and 15-degree swing arc.

5849RK

REPLACEMENT PARTS FOR REVERSIBLE RATCHET HANDLES, 1" DRIVE

CODE	DESCRIPTION
5849RK	Set of replacement parts for ratchet handle Code: 5849



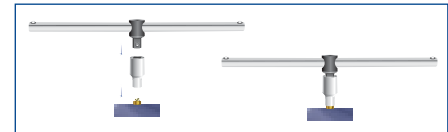
SLIDING BAR, 1" DRIVE

This is a lever arm with a drive that slides on the bar, so you can vary the distance between the socket's rotation center and the end where torque is applied. You can also position the drive in the center of the bar and use both hands to apply force. The maximum recommended torque for a 1" sliding bar is 15,000 in-lbs.

5885

CODE	DRIVE SIZE		LENGTH		STRENGTH	
	in	mm	in	mm	grs	lbs
5885	1"	254	28 1/2"	723.9	2847	6.27

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



"L" HANDLE, 1" DRIVE

This is a lever arm fixed at 90 degrees. The design is very strong because there are no moving parts.

5886

CODE	DRIVE SIZE		LENGTH		STRENGTH	
	in	mm	in	mm	grs	lbs
5886	1"	254	30"	762	3500	7.71

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



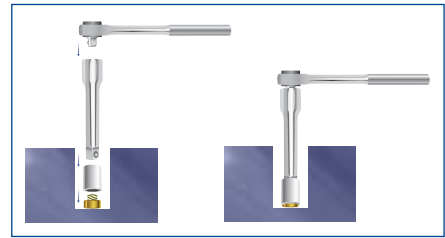
EXTENSIONS, 1" DRIVE

This accessory lets you work on screws in tight or deep spaces where a ratchet handle head can't reach; available in a variety of lengths. The maximum recommended torque for a 1" extension of any length is 15,000 in-lbs.

586X

CODE	DRIVE SIZE		LENGTH		STRENGTH		ASME/ANSI B 107.10M
	in	mm	in	mm	grs	lbs	
5861	1"	254	8"	203.2	1330	2.93	15000
5863	1"	254	16"	406.4	2260	4.98	15000

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



3



UNIVERSAL JOINT, 1" DRIVE

This accessory makes the advantages of a hinge handle available to any fixed handle, such as a ratchet or sliding bar, so you can access nuts or bolts at a variety of angles.

5870

CODE	DRIVE SIZE		LENGTH		STRENGTH		ASME/ANSI B 107.10M
	in	mm	in	mm	grs	lbs	
5870	1"	25.4	5 5/8"	142.9	1210	2.66	14,000

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



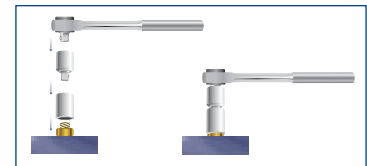
ADAPTERS, 1" DRIVE

These accessories let you work with 3/4" square drive sockets using 1" handles. The maximum recommended torque for adapters with 3/4" female drive and 1" male drive is 4500 in-lbs.

585X

CODE	DRIVE SIZE		LENGTH		STRENGTH		ASME/ANSI B 107.10M
	in	mm	in	mm	grs	lbs	
5853	3/4" F x 1" M	19 F x 25.4 M	2 7/16"	62	385	0.84	14,000
5854	1" F x 3/4" M	25.4 F x 19 M	2 3/4"	70	495	1.09	14,000

STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123



The 1" socket line is for heavy mechanics, with a higher torque range than the 3/4" line. It is used primarily in the petrochemical, extraction, mining, and other industries. The application ranges are as follows:

Socket hex sizes: 27/32" to 3-1/2" and 36-75 mm.

Torque applications for sockets, handles, and accessories: from 11,700 to 28,000 in-lbs.

12-POINT SOCKETS IN FRACTIONAL SIZES, 1" DRIVE

57XX

CODE	HEX SIZE		LENGTH		OUTER DIAMETER		HEX END DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.1		
	in	mm	in	mm	in	in			grs.	lbs	lb-in
5734	1 1/16"	26.9	2 3/8"	63.5	1 7/8"	1 3/4"	15/16"	III	800	1.7637	11700
5736	1 1/8"	28.5	2 3/8"	63.5	1 7/8"	1 3/4"	15/16"	III	810	1.7857	12800
5740	1 1/4"	31.7	2 7/16"	63.5	1 7/8"	1 3/4"	15/16"	III	815	1.7968	15400
5742	1 5/16"	33.3	2 1/2"	63.5	1 7/8"	1 3/4"	15/16"	III	820	1.8078	16700
5744	1 3/8"	34.9	2 1/2"	63.5	1 7/8"	1 3/4"	15/16"	III	830	1.8298	18000
5746	1 7/16"	36.5	2 9/16"	69.8	2 1/16"	1 3/4"	1"	III	830	1.8298	19500
5748	1 1/2"	38.1	2 9/16"	69.8	2 1/8"	1 3/4"	1 3/16"	III	850	1.8739	21000
5752	1 5/8"	41.2	2 3/4"	76.2	2 1/4"	1 3/4"	1 3/16"	III	853	1.8805	24000
5756	1 3/4"	44.0	2 3/4"	76.0	2 1/4"	2"	1 3/16"	III	860	1.8960	28000
5758	1 13/16"	46.0	3"	76.2	2 1/2"	2"	1 3/8"	III	867	1.9114	28000
5760	1 7/8"	47.6	3"	76.2	2 5/8"	2"	1 3/8"	III	900	1.9842	28000
5764	2"	50.8	3"	76.2	2 3/4"	2 1/4"	1 3/8"	III	950	2.0944	28000
5768	2 1/8"	53.9	3 3/16"	76.2	2 15/16"	2 1/4"	1 9/16"	III	1000	2.2046	28000
5770	2 3/16"	55.5	3 3/16"	82.5	3"	2 1/4"	1 9/16"	III	1100	2.4251	28000
5772	2 1/4"	57.1	3 3/16"	82.5	3 1/16"	2 1/4"	1 9/16"	III	1130	2.4912	28000
5776	2 3/8"	60.3	3 5/16"	82.5	3 1/4"	2 1/4"	1 11/16"	III	1200	2.6455	28000
5780	2 1/2"	63.5	3 7/16"	82.5	3 3/8"	2 1/4"	1 3/4"	III	1300	2.8660	28000
5782	2 9/16"	65.0	3 9/16"	88.9	3 7/16"	2 1/4"	1 3/4"	III	1380	3.0424	28000
5784	2 5/8"	66.6	3 9/16"	88.9	3 1/2"	2 1/4"	1 3/4"	III	1400	3.0865	28000
5788	2 3/4"	69.8	3 11/16"	96.8	3 3/4"	2 11/16"	1 7/8"	III	1600	3.5274	28000
5794	2 15/16"	74.6	3 7/8"	96.8	3 15/16"	2 11/16"	2"	III	2000	4.4092	28000
5796	3"	76.2	4 1/16"	107.9	4"	2 11/16"	2 1/8"	III	2320	5.1147	28000
5800	3 1/8"	79.3	4 1/16"	107.9	4 1/8"	2 11/16"	2 1/8"	III	2700	5.9525	28000
5812	3 1/2"	88.9	4 3/8"	114.3	4 3/4"	3 3/8"	2 1/8"	III	3100	6.8343	28000



TYPE III



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123

12-POINT METRIC SOCKETS, 1" DRIVE

57XXM

CODE	HEX SIZE	LENGTH		OUTER DIAMETER		HEX END DEPTH	TYPE	TORQUE STRENGTH ASME/ANSI B107.5M		
	mm	in	mm	mm	mm			grs.	lbs	lb-in
5736M	36.0	2 3/4"	69.8	55.6	55.6	28.6	II	788	1.7372	19500
5741M	41.0	2 3/4"	76.2	57.2	57.2	31.8	III	1000	2.2046	24000
5746M	46.0	3"	76.2	63.5	57.2	38.1	III	1200	2.6455	28000
5750M	50.0	3"	76.2	69.8	57.2	38.1	III	1016	2.2399	28000
5755M	55.0	3 1/8"	82.5	76.2	57.2	44.4	III	1190	2.6235	28000
5760M	60.0	3 4/9"	82.5	82.5	57.2	42.9	III	1230	2.7117	28000
5765M	65.0	3 4/9"	88.9	85.7	57.2	23.0	III	1300	2.8660	28000
5770M	70.0	3 2/3"	96.8	95.3	68.3	53.9	III	2100	4.6297	28000
5775M	75.0	3 4/5"	96.8	101.6	68.3	57.2	III	2325	5.1258	28000



TYPE II



TYPE III



STANDARDS: FEDERAL GGG-W-641
ASME/ANSI B107.4
ISO 3315, SAE AS 4283, DIN 3123

REPAIRING 24-TOOTH PEAR-HEAD RATCHET HANDLES

Tools needed:

1. Phillips head screwdriver
2. Ball peen hammer
3. Support block
4. Repair kits
5. Ratchet handle body



3

ASSEMBLING A TRADITIONAL RATCHET HANDLE



1. Insert the cam into the corresponding borehole.



2. Insert the lever in the cam pivot.



3. Set the cam pivot.



4. Place one of the catch hooks in its borehole (the hook's groove should be against the ratchet handle body).



5. Position the spring for that catch hook (with the larger diameter against the hook).



6. Turn the lever and position the second catch hook.



7. Position the second spring in the same manner as the first one.



8. Insert the gear.



9. Put on the cover.



10. On the back, secure the cover with the screws.



11. Tighten the screws securely.

REPAIRING 30-TOOTH PEAR-HEAD RATCHET HANDLES

Tools needed:

1. Torx screwdriver
2. Cabinet screwdriver 1/8 x 2"
3. Repair kits
4. Ratchet handle body



ASSEMBLING A PLUS RATCHET HANDLE



1. Insert the cam into the corresponding borehole.



2. Place the bearing on the spring.



3. Push the bearing down using the cabinet screwdriver.



4. Maintain pressure on the bearing while you insert the cam into its place (drive facing down and teeth toward the borehole for the gear).



5. Insert the lever into the cam in the back of the ratchet.



6. Insert the lever screw.



7. Insert the gear.



8. Put on the cover.



9. Insert the screws and tighten securely.

REPAIRING 45-TOOTH ROUND-HEAD RATCHET HANDLES

Tools needed:

1. Cabinet screwdriver
2. Repair kits
3. Ratchet handle body



3

ASSEMBLING A ROUND-HEAD RATCHET HANDLE



1. To disassemble a round-head ratchet, lift the washer with the cabinet screwdriver.



2. With the same screwdriver, lift the washer while turning it around the gear. Remove the damaged kit.



3. Insert the new kit into the deepest side of the ratchet handle compartment.



4. Open the washer and begin inserting it into the groove in the gear.



5. Finish inserting the washer, using the screwdriver.



6. The round-head ratchet is now assembled.

REPAIRING HINGE HANDLES

Tools needed:

- 1. Ball peen hammer
- 2. Punch
- 3. Support block
- 4. Repair kits
- 5. Ratchet handle body



ASSEMBLING HINGE HANDLES



1. Remove the damaged kit, using a hammer and punch.



2. Insert the washer in the drive compartment.



3. Insert the drive and washer into the handle fork.



4. Insert the bolt into the handle borehole.



5. Finish inserting the bolt into the hinge handle, using the hammer.



HAND SOCKETS AND ACCESSORIES SAFETY RECOMMENDATIONS



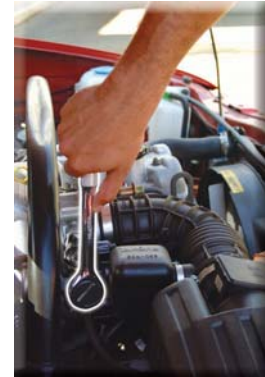
3



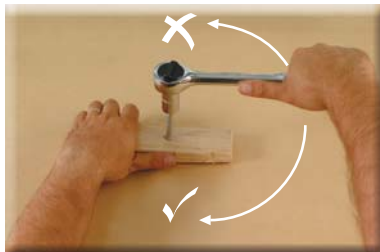
- Choose the right socket for the application, with either 6 or 12 points.
- Never try to weld or repair a damaged or cracked socket.



Never use an adapter to increase or decrease by more than two drive sizes; the tool could break and cause an accident.



Use round-head ratchets for working in tight spaces.



- When using ratchet handles, always apply force by pulling, never pushing.
- Use reversible ratchets only for more rapid threading of nuts or bolts; for tightening with higher torque, use a hinge handle.



- Never use any type of extension as a lever on the handle to increase the force.
- Do not apply any extra lever (breaker bar pipe or other device); it could damage your tool and compromise your safety.



If you need more torque force, it is better to change to the next larger drive size or use an accessory such as a hinge handle or sliding bar.



Always wear safety glasses.



Never use a standard size in place of a metric size or vice versa.