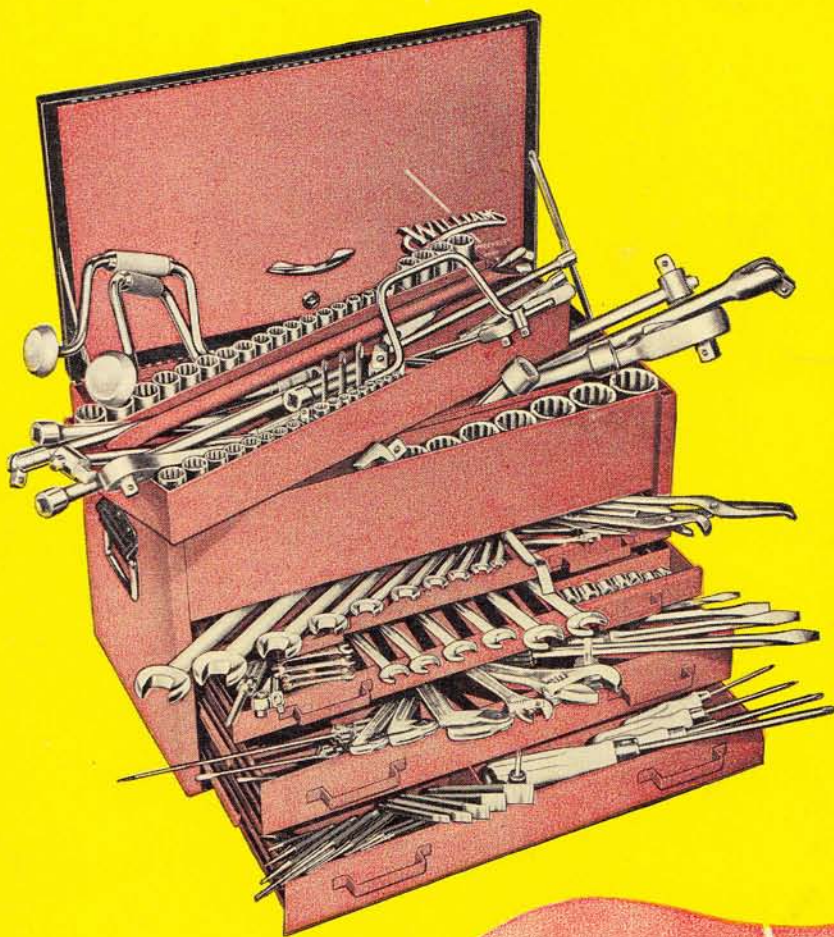


AUTOMOTIVE and AIRCRAFT TOOLS



"SUPERRENCHES"

"SUPERSOCKETS"

WRENCH & SOCKET SETS

PLIERS & SCREWDRIVERS

PUNCHES & CHISELS

SOFT-FACE HAMMERS

FENDER REPAIR TOOLS

**CATALOG
No. 401**

WILLIAMS

J. H. WILLIAMS & CO., BUFFALO 7, NEW YORK
AUTOMOTIVE DIVISION

NOTICE - Finishes, materials and designs are subject to change without notice or regard to catalog descriptions.

WILLIAMS

**AUTOMOTIVE AND
AIRCRAFT TOOLS**

J. H. WILLIAMS & CO.

ESTABLISHED 1882 — INCORPORATED JULY 1, 1895

GENERAL OFFICES AND FACTORY
400 VULCAN STREET BUFFALO 7, NEW YORK

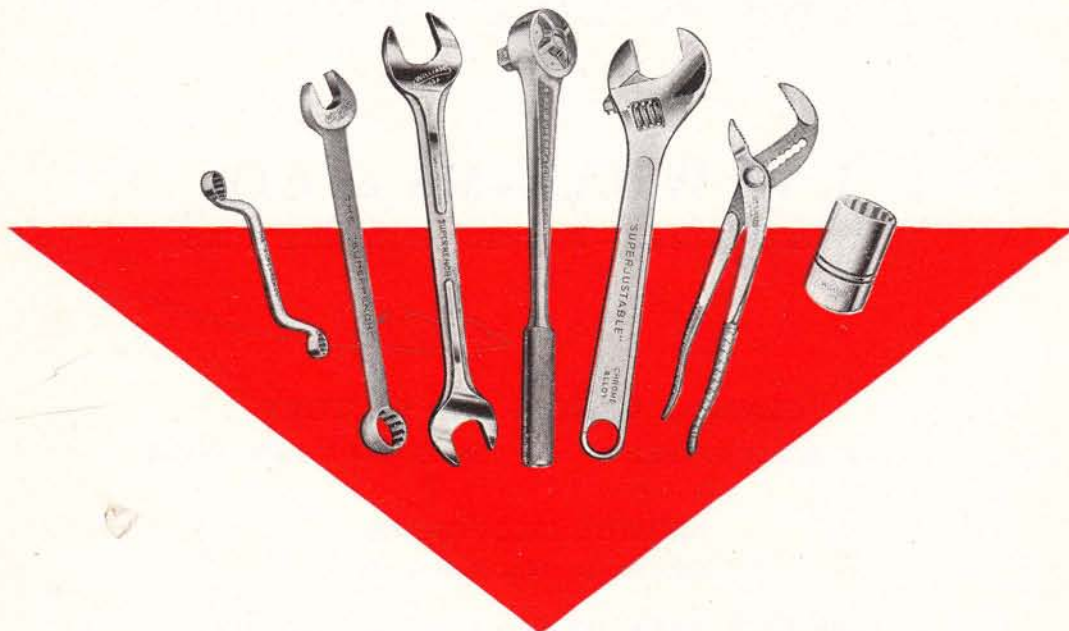
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225 Lafayette St., New York 12, N. Y.

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117 North Jefferson Street, Chicago 6, Ill.
2266 East 38th Street, Los Angeles 58, Calif.

CATALOG
No. 401

PRINTED IN U. S. A.

YOU SHOULD KNOW THIS *about* WILLIAMS TOOLS



Here are the steps through which every Williams tool must pass before it reaches the customer.

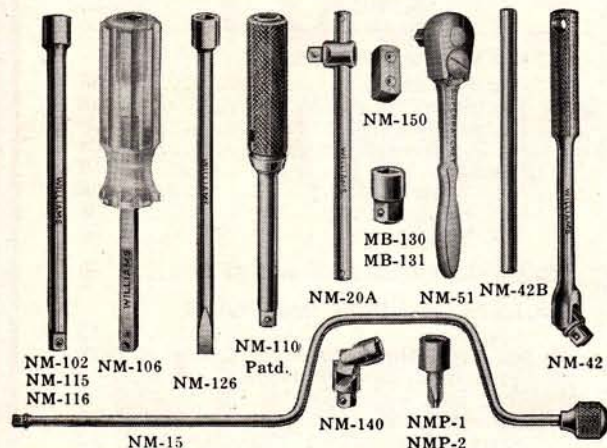
- 1. Market Research:**—to determine demand and scope of market.
- 2. Product Research and Design:**—To develop the finest possible product.
- 3. Preparation of Dies and Tooling:**—To effect manufacturing economies.
- 4. Pilot Run:**—To prove manufacturing process and provide test units.
- 5. Product Test:**—To provide actual use results in field and laboratory.
- 6. Refinement:**—To incorporate all improvements developed through tests.
- 7. Production:**— Under continuous material and process controls.
- 8. Guarantee:**—Against defective workmanship and materials is the final expression of Williams built-in quality.

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WILLIAMS' ♦ "SUPERSOCKET" WRENCHES

Selected Alloy Steel
MIDGET PATTERN—1/4" SQUARE DRIVE
HANDLES AND PARTS



No.	PIECE	Package Quantity
NM-15	Speeder—15 3/4" long; knurled revolving grip.	6
NM-20A	Sliding T Handle—4-1/2" long.	6
NM-42	Flex Handle only—5-3/4" long; flexible head, knurled grip, crosshole for use with Sliding Bar.	6
NM-42B	Sliding Bar, 1/4" x 4-1/2", for NM-42.	6
NM-51	Reversible Ratchet—4-1/2" long. 24 teeth in Ratchet-gear instead of usual 14 to 20. Turning shift-lever reverses action instantly.	6
NM-102	Extension—2" long.	6
NM-106	Extension—Driver has plastic grip with 1/4" square drive-opening in end—6" long.	6
NM-110	Extension—Driver has lockable-revolving, knurled handle with 1/4" square drive-opening in end. May be used either as an Extension with handy revolving grip for spinning nuts, or as a Driver with handle locked. A slight turn of the handle locks and unlocks same instantly. 5-3/8" long.	6
NM-115	Extension—6" long.	6
NM-116	Extension—14" long.	6
NM-126	Regular Screw Driver Socket Attachment—6" long.	6
MB-130	Adapter—1/4" square female and 3/8" square male. Adapts Handles with 1/4" square drive to Sockets with 3/8" square drive.	6
MB-131	Adapter—1/4" square male and 3/8" square female. Adapts Sockets with 1/4" square drive to Handles with 3/8" square drive plug.	6
NM-140	Universal Joint—Spring tension maintains operating angle desired.	6
NM-150	Plug Adapter 3/4" long; both ends 1/4" sq. male.	6
NMP-1	Phillips Screw Driver Socket Attachment—No. 1 Phillips Drive to fit screws No. 4 and smaller.	6
NMP-2	Phillips Screw Driver Socket Attachment—No. 2 Phillips Drive to fit screws Nos. 5 to 9 inclusive.	6

SOCKETS

Williams Midget Electrical Sockets are unequalled in cramped quarters.

Their thin, straight walls enable them to operate readily on troublesome little jobs where no ordinary socket or wrench could even get in and grip the nut.

Accurately made from Selected Alloy Steel, heat-treated and chrome-plated.



Reg. 6 & 12 Pt.



Reg. 4 & 8 Pt.



Extra Deep 6 & 12 Pt.

Nominal Opening	6 AND 12-POINT OPENINGS FOR HEX NUTS						4 AND 8-POINT OPENINGS		
	6-Point Sockets		12-Point Sockets		*Extra Deep 6 and 12-Point Sockets		Socket No.	Pack-aged Qty.	Nominal Opening
	No.	Pack-aged Qty.	No.	Pack-aged Qty.	No.	Pack-aged Qty.			
3/16	NM-606	6					NM-406	6	3/16
7/32	NM-607	6					NM-407	6	7/32
1/4	NM-608	6					NM-408	6	1/4
9/32	NM-609	6			NMD-608	6			
5/16					NMD-609	6			
11/32			NM-1210	6	NMD-1210	6	NM-810	6	5/16
3/8			NM-1211	6	NMD-1211	6			
7/16			NM-1212	6	NMD-1212	6	NM-812	6	3/8
1/2			NM-1214	6	NMD-1214	6			
			NM-1216	6	NMD-1216	6			

* 2" long.

♦ REGISTERED TRADE MARK

WILLIAMS'

♦ "SUPERSOCKET" WRENCH SETS

Selected Alloy Steel

MIDGET PATTERN—1/4" SQUARE DRIVE

SET No. NM-1

Complete in Metal Case

11 Pieces

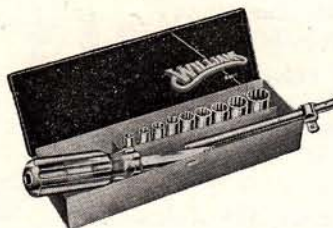
9 Sockets and 2 Attachments

Total Weight, 1-1/8 lbs.

2 Color Steel Case Only

1-1/8 x 2-1/8 x 7"

Weight, 5/8 lb.



CONTENTS

One Ea. No.	Description	One Ea. No.	Description
NM-606	3/16"— 6 Pt. Socket	NM-1212	3/8"—12 Pt. Socket. . . .
NM-607	7/32"— 6 Pt. Socket	NM-1214	7/16"—12 Pt. Socket. . . .
NM-608	1/4"— 6 Pt. Socket	NM-1216	1/2"—12 Pt. Socket. . . .
NM-609	9/32"— 6 Pt. Socket	NM-20A	Sliding T Handle, 4-1/2".
NM-1210	5/16"—12 Pt. Socket	NM-51	Reversible Ratchet, 4-1/2".
NM-1211	11/32"—12 Pt. Socket	NM-106	Extension, Plastic Grip, 6"

SET No. NM-2

Complete in Metal Case

13 Pieces

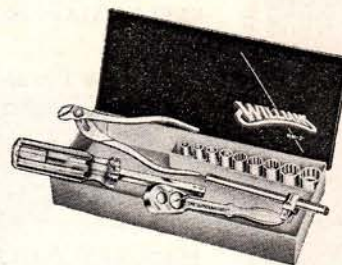
9 Sockets, 3 Attachments and 1 Plier

Total Weight, 1-5/8 lbs.

2 Color Steel Case Only

1-1/8 x 3-1/4 x 7-1/2"

Weight, 7/8 lb.



CONTENTS

One Ea. No.	Description	One Ea. No.	Description
NM-606	3/16"— 6 Pt. Socket	NM-1214	7/16"—12 Pt. Socket. . . .
NM-607	7/32"— 6 Pt. Socket	NM-1216	1/2"—12 Pt. Socket. . . .
NM-608	1/4"— 6 Pt. Socket	NM-20A	Sliding T Handle, 4-1/2".
NM-609	9/32"— 6 Pt. Socket	NM-51	Reversible Ratchet, 4-1/2".
NM-1210	5/16"—12 Pt. Socket	NM-106	Extension, Plastic Grip, 6"
NM-1211	11/32"—12 Pt. Socket	1519	4-1/2" "Superpliers"
NM-1212	3/8"—12 Pt. Socket		

SET No. NM-3

Complete in Metal Case

7 Pieces

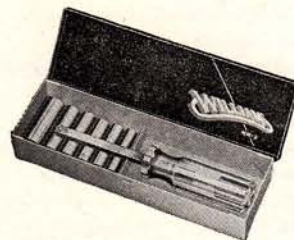
6 Sockets and 1 Attachment

Total Weight, 1-1/8 lbs.

2 Color Steel Case Only

1-1/8 x 2-1/8 x 7"

Weight, 5/8 lb.



CONTENTS

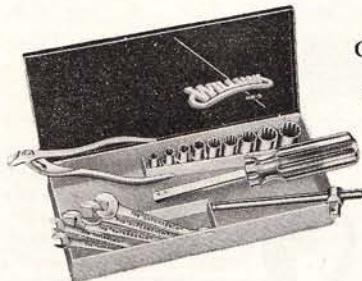
One Each No.	Description	One Each No.	Description
NMD-608	1/4" 6 Pt. Deep Skt.	NMD-1212	3/8" 12 Pt. Deep Skt.
NMD-609	9/32" 6 Pt. Deep Skt.	NMD-1214	7/16" 12 Pt. Deep Skt.
NMD-1210	5/16" 12 Pt. Deep Skt.	NM-106	Exten. Plastic Grip, 6"
NMD-1211	11/32" 12 Pt. Deep Skt.		

WILLIAMS'
★"SUPERSOCKET" WRENCH SETS
 Selected Alloy Steel
 MIDGET PATTERN — 1/4" SQUARE DRIVE

SET No. NM-4
Complete in Metal Case
 7 Pieces
 6 Sockets and 1 Attachment
 Total Weight, 1 lb.
 2 Color Steel Case Only
 1-1/8 x 2-1/8 x 7"
 Weight, 5/8 lb.

**CONTENTS**

One Each No.	Description	One Each No.	Description
NMD-608	1/4" 6 Pt. Deep Skt.	NMD-1212	3/8" 12 Pt. Deep Skt.
NMD-609	9/32" 6 Pt. Deep Skt.	NMD-1214	7/16" 12 Pt. Deep Skt.
NMD-1210	5/16" 12 Pt. Deep Skt.	NM-51	Revers. Ratchet, 4-1/2"
NMD-1211	11/32" 12 Pt. Deep Skt.		

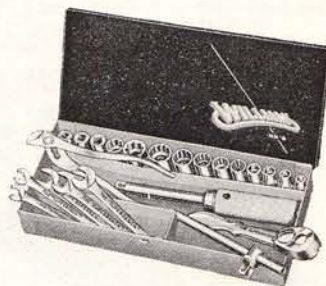


SET No. NM-5
Complete in Metal Case
 17 Pieces
 9 Sockets, 2 Attachments,
 5 Wrenches and 1 Plier
 Total Wgt., 1-5/8 lbs.
 2 Color Steel Case Only
 1-1/8 x 3-1/4 x 7-1/2"
 Weight, 7/8 lb.

CONTENTS

One Ea. No.	Description	One Ea. No.	Description
NM-606	3/16" 6 Pt. Socket	NM-20A	Sliding T Handle, 4-1/2"
NM-607	7/32" 6 Pt. Socket	NM-106	Extension, Plastic Grip, 6"
NM-608	1/4" 6 Pt. Socket	1519	4-1/2" "Superpliers"
NM-609	9/32" 6 Pt. Socket	1106	13/64 & 7/32" Midget Wr.
NM-1210	5/16" 12 Pt. Socket	1107	15/64 & 1/4" Midget Wr.
NM-1211	11/32" 12 Pt. Socket	1108	9/32 & 11/32" Midget Wr.
NM-1212	3/8" 12 Pt. Socket	1108A	1/4 & 5/16" Midget Wr.
NM-1214	7/16" 12 Pt. Socket	1109	5/16 & 3/8" Midget Wr.
NM-1216	1/2" 12 Pt. Socket		

SET No. NM-6
Complete in Metal Case
 23 Pieces
 14 Sockets, 3 Attachments,
 5 Wrenches and 1 Plier
 Total Weight, 2-1/8 lbs.
 2 Color Steel Case Only
 1-1/8 x 3-1/4 x 7-1/2"
 Weight, 1 lb.

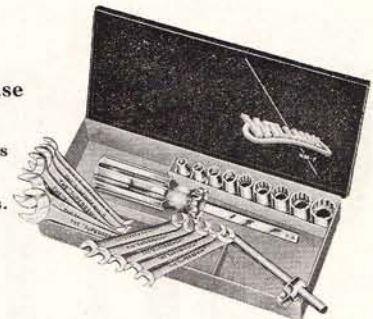
**CONTENTS**

One Ea. No.	Description	One Ea. No.	Description
NM-406	3/16" 4 Pt. Socket	NM-1214	7/16" 12 Pt. Socket
NM-407	7/32" 4 Pt. Socket	NM-1216	1/2" 12 Pt. Socket
NM-408	1/4" 4 Pt. Socket	NM-20A	Sliding T Handle, 4-1/2"
NM-606	3/16" 6 Pt. Socket	NM-51	Reversible Ratchet, 4-1/2"
NM-607	7/32" 6 Pt. Socket	NM-110	Extension Driver, 5-3/8"
NM-608	1/4" 6 Pt. Socket	1519	4-1/2" "Superpliers"
NM-609	9/32" 6 Pt. Socket	1106	13/64 & 7/32" Midget Wr.
NM-810	5/16" 8 Pt. Socket	1107	15/64 & 1/4" Midget Wr.
NM-812	3/8" 8 Pt. Socket	1108	9/32 & 11/32" Midget Wr.
NM-1210	5/16" 12 Pt. Socket	1108A	1/4 & 5/16" Midget Wr.
NM-1211	11/32" 12 Pt. Socket	1109	5/16 & 3/8" Midget Wr.
NM-1212	3/8" 12 Pt. Socket		

★ REGISTERED TRADE MARK

WILLIAMS'
★"SUPERSOCKET" WRENCH SETS
 Selected Alloy Steel
 MIDGET PATTERN — 1/4" SQUARE DRIVE

SET No. NM-7
Complete in Metal Case
 22 Pieces
 9 Sockets, 2 Attachments
 and 11 Wrenches
 Total Weight, 1-3/4 lbs.
 2 Color Steel Case Only
 1-1/8 x 3-1/4 x 7-1/2"
 Weight, 7/8 lb.

**CONTENTS**

One Each No.	Description	One Each No.	Description
NM-606	3/16" 6 Pt. Socket	1112	3/16 & 3/16" Midget Wr.
NM-607	7/32" 6 Pt. Socket	1113	13/64 & 13/64" Midget Wr.
NM-608	1/4" 6 Pt. Socket	1114	7/32 & 7/32" Midget Wr.
NM-609	9/32" 6 Pt. Socket	1115	15/64 & 15/64" Midget Wr.
NM-1210	5/16" 12 Pt. Socket	1116	1/4 & 1/4" Midget Wr.
NM-1211	11/32" 12 Pt. Socket	1118	9/32 & 9/32" Midget Wr.
NM-1212	3/8" 12 Pt. Socket	1120	5/16 & 5/16" Midget Wr.
NM-1214	7/16" 12 Pt. Socket	1122	11/32 & 11/32" Midget Wr.
NM-1216	1/2" 12 Pt. Socket	1124	3/8 & 3/8" Midget Wr.
NM-20A	Sliding T Handle, 4-1/2"	1128	7/16 & 7/16" Midget Wr.
NM-106	Extens., Plastic Grip, 6"	1132	1/2 & 1/2" Midget Wr.



SET No. NM-8
Complete in Metal Case

45 Pieces
 20 Sockets, 9 Attachments,
 15 Wrenches and 1 Plier
 Total Weight, 4 lbs.
 2 Color Steel Case Only
 1-3/8 x 5-7/8 x 8"
 Weight, 1-5/8 lbs.

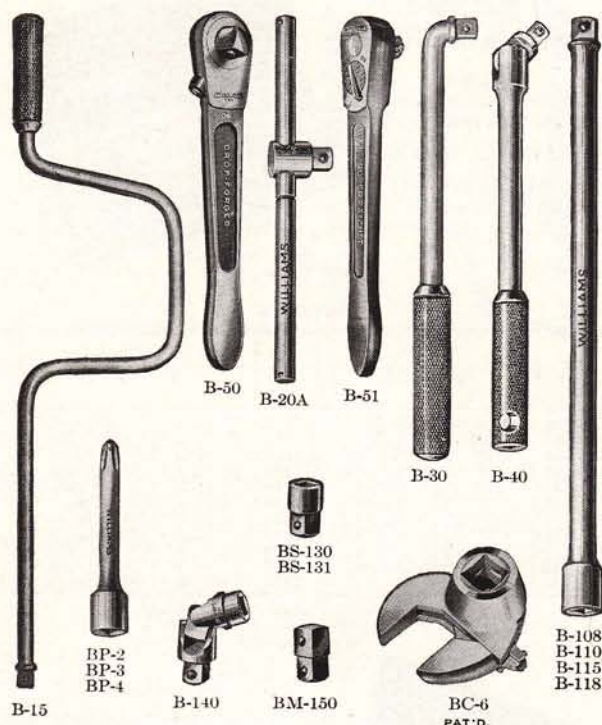
CONTENTS

One Ea. No.	Description	One Ea. No.	Description
NM-406	3/16" 4 Pt. Socket	NM-51	Reversible Ratchet, 4-1/2"
NM-407	7/32" 4 Pt. Socket	NM-106	Extension, Plastic Grip, 6"
NM-408	1/4" 4 Pt. Socket	NM-110	Extension Driver, 5-3/8"
NM-606	3/16" 6 Pt. Socket	NM-126	Screw Driver Attachment, 6"
NM-607	7/32" 6 Pt. Socket	NMP-1	Phillips No. 1 Driver Attach.
NM-608	1/4" 6 Pt. Socket	NMP-2	Phillips No. 2 Driver Attach.
NM-609	9/32" 6 Pt. Socket	1519	4-1/2" "Superpliers"
NM-810	5/16" 8 Pt. Socket	1112	3/16 & 3/16" Midget Wr.
NM-812	3/8" 8 Pt. Socket	1113	13/64 & 13/64" Midget Wr.
NM-1210	5/16" 12 Pt. Socket	1114	7/32 & 7/32" Midget Wr.
NM-1211	11/32" 12 Pt. Socket	1115	15/64 & 15/64" Midget Wr.
NM-1212	3/8" 12 Pt. Socket	1116	1/4 & 1/4" Midget Wr.
NM-1214	7/16" 12 Pt. Socket	1118	9/32 & 9/32" Midget Wr.
NM-1216	1/2" 12 Pt. Socket	1120	5/16 & 5/16" Midget Wr.
NMD-608	1/4" 6 Pt. Deep Socket	1122	11/32 & 11/32" Midget Wr.
NMD-609	9/32" 6 Pt. Deep Socket	1124	3/8 & 3/8" Midget Wr.
NMD-1210	5/16" 12 Pt. Deep Socket	1128	7/16 & 7/16" Midget Wr.
NMD-1211	11/32" 12 Pt. Deep Socket	1132	1/2 & 1/2" Midget Wr.
NMD-1212	3/8" 12 Pt. Deep Socket	1150	13/64 & 3/16" Mid. Box Wr.
NMD-1214	7/16" 12 Pt. Deep Socket	1151	15/64 & 7/32" Mid. Box Wr.
NM-20A	Sliding T Handle, 4-1/2"	1152	9/32 & 1/4" Mid. Box Wr.
NM-42	Flex Handle, 5-3/4"	1153	11/32 & 5/16" Mid. Box Wr.
NM-42B	Sliding Bar for NM-42		

WILLIAMS' "SUPERSOCKET" WRENCHES

Selected Alloy Steel

BANTAM PATTERN—3/8" SQUARE DRIVE
HANDLES and PARTS



No.	PIECE	Pack- aged Quantity
BP-2	Phillips Screw Driver Socket Attachment—No. 2 Phillips Drive to fit Screws Nos. 5 to 9 inclusive.	6
BP-3	Phillips Screw Driver Socket Attachment—No. 3 Phillips Drive to fit Screws Nos. 10 to 16 inclusive.	6
BP-4	Phillips Screw Driver Socket Attachment—No. 4 Phillips Drive to fit No. 18 and larger.	6
BC-6	Adjustable Crowfoot Attachment—Capacity, 3/4" square drive Handles or Parts.	6
B-15	Speeder—16-1/2" long; Knurled revolving grip.	6
B-20A	Sliding T Handle—6-1/2" long.	6
B-30	Offset Handle—7-3/4" long; Knurled grip.	6
B-40	Flex Handle—8-1/2" long; flexible head. Knurled grip with 3/8" square drive hole in end; 3/8" cross hole for Sliding Bar—may be used as Extension.	6
B-42B	Sliding Bar, 5/16" rd. x 6", for B-40.	6
B-50	Drop-Forged Ratchet—6-1/2" long; complete with No. B-150 Plug-Connector.	6
B-50A	Ratchet—Same as B-50 above, but with 1/4" square drive-opening in ratchet wheel and 1/4" square hole near end of handle, for Refrigeration Service. Without Plug-Connector.	6
B-50B	Ratchet—Same as B-50, but with 5/16" square drive-opening. No Plug-Connector.	6
B-51	Reversible Ratchet—6-1/2" long. 24 teeth in ratchet-gear instead of usual 14 or 16. Turning shift-lever reverses action instantly.	6
B-51A	Reversible Ratchet for Refrigeration Service—same as B-51, but has both 3/8" square male and 1/4" square female ratchet drive. Also has 3/16" and 1/4" square drive holes in handle end.	6
B-108	Extension Bar—3" long.	6
B-110	Extension Bar—5-1/2" long.	6
B-115	Extension Bar—10-1/2" long.	6
B-118	Extension Bar—18" long.	6
BS-130	Adapter—3/8" square female and 1/2" square male.	6
BS-131	Adapter—3/8" square male and 1/2" square female.	6
B-140	Universal Joint—Fitted with spring tension to maintain operating angle desired—range approx. 140°.	6
B-150	Ratchet Plug-Connector for B-50 Ratchet.	6
BM-150	Adapter—3/8" square male and 1/4" square female.	6

REGISTERED TRADE MARK

WILLIAMS' "SUPERSOCKET" WRENCHES

Selected Alloy Steel

BANTAM PATTERN—3/8" SQUARE DRIVE

SOCKETS

Williams "Bantam" Sockets with thin walls get in and service "buried" nuts in close and awkward corners. Accurately made from Selected Alloy Steel, heat-treated and chrome-plated.



Size Open- ing	6-Point Openings		12-Point Openings				Amer. Std. Heavy Nut (USS)	Amer. Std. Hex Head Cap Screw	Amer. Std. Light Nut (SAE)	Amer. Std.	
	Regular		Regular		†Extra Deep					Reglr. Nut	Mach. Screw
	No.	Pkg. Qty.	No.	Pkg. Qty.	No.	Pkg. Qty.					
1/4	B-608	6									No. 4
5/16	B-610	6	B-1210	6			1/8	1/8			5 & 6
11/32	B-611	6	B-1211	6							8
3/8	B-612	6	B-1212	6	BD-1212	6		3/16			10
7/16	B-614	6	B-1214	6	BD-1214	6	1/4	1/4	1/4	1/4	12-1/4
1/2	B-616	6	B-1216	6	BD-1216	6	1/4	5/16	5/16		
17/32	B-617	6	B-1217	6							
9/16	B-618	6	B-1218	6	BD-1218	6		3/8	3/8	5/16	5/16
19/32	B-619	6	B-1219	6			5/16				
5/8	B-620	6	B-1220	6	BD-1220	6		7/16	7/16	3/8	3/8
11/16	B-622	6	B-1222	6	BD-1222	6	3/8				
3/4	B-624	6	B-1224	6	BD-1224	6		1/2	1/2	7/16	
13/16	B-1226	6	BD-1226	6				9/16		1/2	
7/8	B-1228	6					1/2	5/8	9/16	9/16	

† 2 to 2-5/8" long has Cross Hole for 9/32" Bar.

SOCKETS

All Universal Sockets have an operating range of approximately 130° and are fitted with spring tension to maintain operating angle desired. Crowfoot attachments are designed for use in close quarters and fit all Bantam attachments.



Size Opening	12-Point Universal Sockets		Crowfoot Wrench Attachments		4 AND 8-POINT OPENINGS 1-1/2" long		
	No.	Pkgd. Quan.	No.	Pkgd. Quan.	No.	Pkgd. Quan.	Size Opng.
3/8	BU-1212	6	BC-1700	6	† B-409	6	9/32
7/16	BU-1214	6	BC-1701	6	BD-814	6	7/16
1/2	BU-1216	6	BC-1001	6			
9/16	BU-1218	6	BC-1702	6	BD-816	6	1/2
5/8	BU-1220	6	BC-1703	6			
11/16	BU-1222	6	BC-1003	6	BD-818	6	9/16
3/4	BU-1224	6			BD-820	6	5/8

† 4-Point Socket for use on Torque Converter Drain Plug (Dynaflow).

WILLIAMS' RATCHET REPAIR KITS

No. PAB-51

For B-51 Bantam

"Superratchet"

Complete in

Compartmented

Cardboard Box

Total Weight, 1 Lb.

In addition to a complete assortment of replacement parts, Williams Ratchet Repair Kits each contain one special spanner wrench. This wrench fits the retaining ring (gland), the only part requiring a tool for assembly or disassembly, for which printed instructions are included in each kit.

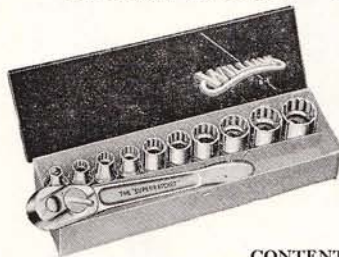
Williams Ratchet Repair Kit (No. PAB-51) is shown in the illustration. It contains the following parts:

CONTENTS

2 Retaining Ring (Gland)	2 Shifter Bolt
6 Ratchet Gear and Plug	6 Shifter Bolt Pin
6 Dog (Pawl)	6 Plunger (Ball)
6 Screw	1 Special Spanner for Gland
6 Spring (Plunger Spring)	

Replacement Parts are also sold separately

WILLIAMS'
♦"SUPERSOCKET" WRENCH SETS
 Selected Alloy Steel
 BANTAM PATTERN—3/8" Square Drive

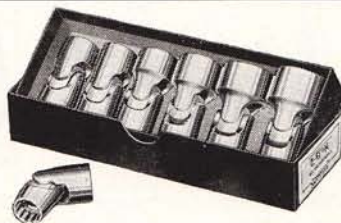


SET No. B-1
Complete
in Metal Case
 11 Pieces
 10 Sockets and
 1 Attachment
 Total Weight, 1-3/4 lbs.
 2 Color Steel Case Only
 1-3/4 x 2-1/4 x 7-3/4"
 Weight, 3/4 lb.

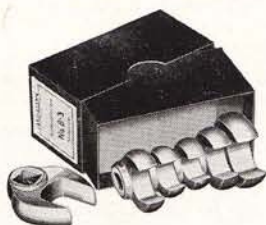
CONTENTS

One Ea. No.	Description	One Ea. No.	Description
B-608	1/4" — 6 Pt. Socket ...	B-1218	9/16" — 12 Pt. Socket ...
B-1210	5/16" — 12 Pt. Socket ...	B-1220	5/8" — 12 Pt. Socket ...
B-1211	11/32" — 12 Pt. Socket ...	B-1222	11/16" — 12 Pt. Socket ...
B-1212	3/8" — 12 Pt. Socket ...	B-1224	3/4" — 12 Pt. Socket ...
B-1214	7/16" — 12 Pt. Socket ...	B-51	Reversible Ratchet, 6-1/2"
B-1216	1/2" — 12 Pt. Socket ...		

SET No. B-2
Complete
in Cardboard Box
 7 Pieces
 Weight, 3/4 lb.

**CONTENTS**

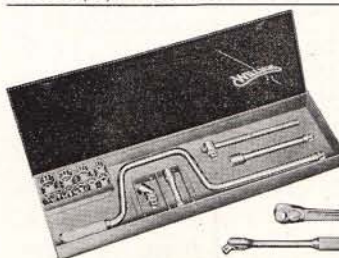
One Ea. No.	Description	One Ea. No.	Description
BU-1212	3/8" 12 Pt. Univ. Socket	BU-1220	5/8" 12 Pt. Univ. Socket
BU-1214	7/16" 12 Pt. Univ. Socket	BU-1222	11/16" 12 Pt. Univ. Socket
BU-1216	1/2" 12 Pt. Univ. Socket	BU-1224	3/4" 12 Pt. Univ. Socket
BU-1218	9/16" 12 Pt. Univ. Socket		



SET No. B-3
Complete
in Cardboard Box
 6 Pieces
 Weight, 1/2 lb.

CONTENTS

One Ea. No.	Description	One Ea. No.	Description
BC-1700	3/8" Crowfoot Attach.	BC-1702	9/16" Crowfoot Attach.
BC-1701	7/16" Crowfoot Attach.	BC-1703	5/8" Crowfoot Attach.
BC-1001	1/2" Crowfoot Attach.	BC-1003	11/16" Crowfoot Attach.



SET No. B-4
Complete
in Metal Case
 18 Pieces
 10 Sockets and
 8 Attachments
 Total Weight, 6-3/8 lbs.
 2 Color Steel Case Only
 1-1/4 x 5-1/4 x 17-3/4"
 Weight, 2-5/8 lbs.

CONTENTS

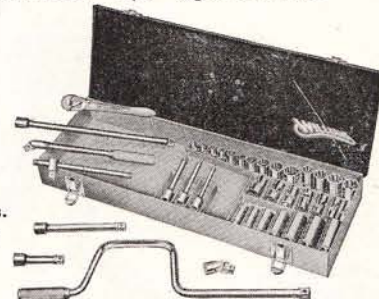
One Ea. No.	Description	One Ea. No.	Description
B-608	1/4" 6 Pt. Socket ...	B-1224	3/4" 12 Pt. Socket ...
B-1210	5/16" 12 Pt. Socket ...	B-15	Speeder, Revol. Grip, 16-1/2"
B-1211	11/32" 12 Pt. Socket ...	B-20A	Sliding T Hxndle, 6-1/2"
B-1212	3/8" 12 Pt. Socket ...	B-40	Flex Handle, 8-1/2"
B-1214	7/16" 12 Pt. Socket ...	B-51	Reversible Ratchet, 6-1/2"
B-1216	1/2" 12 Pt. Socket ...	B-108	Extension Bar, 3"
B-1218	9/16" 12 Pt. Socket ...	B-110	Extension Bar, 5-1/2"
B-1220	5/8" 12 Pt. Socket ...	B-115	Extension Bar, 10-1/2"
B-1222	11/16" 12 Pt. Socket ...	B-140	Universal Joint ...

♦ REGISTERED TRADE MARK

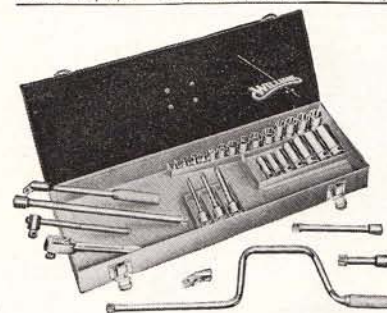
WILLIAMS'
♦"SUPERSOCKET" WRENCH SETS
 Selected Alloy Steel
 BANTAM PATTERN—3/8" Square Drive

SET No. B-5

Complete
in Metal Case
 39 Pieces
 28 Sockets and
 11 Attachments
 Total Weight, 11-3/8 lbs.
 2 Color Steel Case Only
 2 x 6-1/2 x 19-1/4"
 Weight, 5 lbs.

**CONTENTS**

One Ea. No.	Description	One Ea. No.	Description
B-608	1/4" 6 Pt. Socket ...	BD-1226	13/16" 12 Pt. Deep Socket ..
B-1210	5/16" 12 Pt. Socket ...	BU-1212	3/8" 12 Pt. Univ. Socket ..
B-1211	11/32" 12 Pt. Socket ...	BU-1214	7/16" 12 Pt. Univ. Socket ..
B-1212	3/8" 12 Pt. Socket ...	BU-1216	1/2" 12 Pt. Univ. Socket ..
B-1214	7/16" 12 Pt. Socket ...	BU-1218	9/16" 12 Pt. Univ. Socket ..
B-1216	1/2" 12 Pt. Socket ...	BU-1220	5/8" 12 Pt. Univ. Socket ..
B-1218	9/16" 12 Pt. Socket ...	BU-1222	11/16" 12 Pt. Univ. Socket ..
B-1220	5/8" 12 Pt. Socket ...	BU-1224	3/4" 12 Pt. Univ. Socket ..
B-1222	11/16" 12 Pt. Socket ...	B-15	Speeder, Revol. Grip, 16-1/2"
B-1224	3/4" 12 Pt. Socket ...	B-20A	Sliding T Handle, 6-1/2" ...
BD-814	7/16" 8 Pt. Deep Skt.	B-40	Flex Handle, 8-1/2" ...
BD-816	1/2" 8 Pt. Deep Skt.	B-51	Reversible Ratchet, 6-1/2" ..
BD-818	9/16" 8 Pt. Deep Skt.	B-108	Extension Bar, 3" ...
BD-820	5/8" 8 Pt. Deep Skt.	B-110	Extension Bar, 5-1/2" ...
BD-1214	7/16" 12 Pt. Deep Skt.	B-115	Extension Bar, 10-1/2" ...
BD-1216	1/2" 12 Pt. Deep Skt.	B-140	Universal Joint ...
BD-1218	9/16" 12 Pt. Deep Skt.	BP-2	Phillips No. 2 Driver Attach.
BD-1220	5/8" 12 Pt. Deep Skt.	BP-3	Phillips No. 3 Driver Attach.
BD-1222	11/16" 12 Pt. Deep Skt.	BP-4	Phillips No. 4 Driver Attach.
BD-1224	3/4" 12 Pt. Deep Skt.		



SET No. B-6
Complete
in Metal Case
 32 Pieces
 21 Sockets and
 11 Attachments
 Total Weight, 10-1/2 lbs.
 2 Color Steel Case Only
 2 x 6-1/2 x 19-1/4"
 Weight, 4-7/8 lbs.

CONTENTS

One Ea. No.	Description	One Ea. No.	Description
B-608	1/4" 6 Pt. Socket ...	BD-1218	9/16" 12 Pt. Deep Socket ..
B-1210	5/16" 12 Pt. Socket ...	BD-1220	5/8" 12 Pt. Deep Socket ...
B-1211	11/32" 12 Pt. Socket ...	BD-1222	11/16" 12 Pt. Deep Socket ..
B-1212	3/8" 12 Pt. Socket ...	BD-1224	3/4" 12 Pt. Deep Socket ...
B-1214	7/16" 12 Pt. Socket ...	BD-1226	13/16" 12 Pt. Deep Socket ..
B-1216	1/2" 12 Pt. Socket ...	B-15	Speeder, Revol. Grip, 16-1/2"
B-1218	9/16" 12 Pt. Socket ...	B-20A	Sliding T Handle, 6-1/2" ...
B-1220	5/8" 12 Pt. Socket ...	B-40	Flex Handle, 8-1/2" ...
B-1222	11/16" 12 Pt. Socket ...	B-51	Reversible Ratchet, 6-1/2" ..
B-1224	3/4" 12 Pt. Socket ...	B-108	Extension Bar, 3" ...
BD-814	7/16" 8 Pt. Deep Skt.	B-110	Extension Bar, 5-1/2" ...
BD-816	1/2" 8 Pt. Deep Skt.	B-115	Extension Bar, 10-1/2" ...
BD-818	9/16" 8 Pt. Deep Skt.	B-140	Universal Joint ...
BD-820	5/8" 8 Pt. Deep Skt.	BP-2	Phillips No. 2 Driver Attach.
BD-1214	7/16" 12 Pt. Deep Skt.	BP-3	Phillips No. 3 Driver Attach.
BD-1216	1/2" 12 Pt. Deep Skt.	BP-4	Phillips No. 4 Driver Attach.

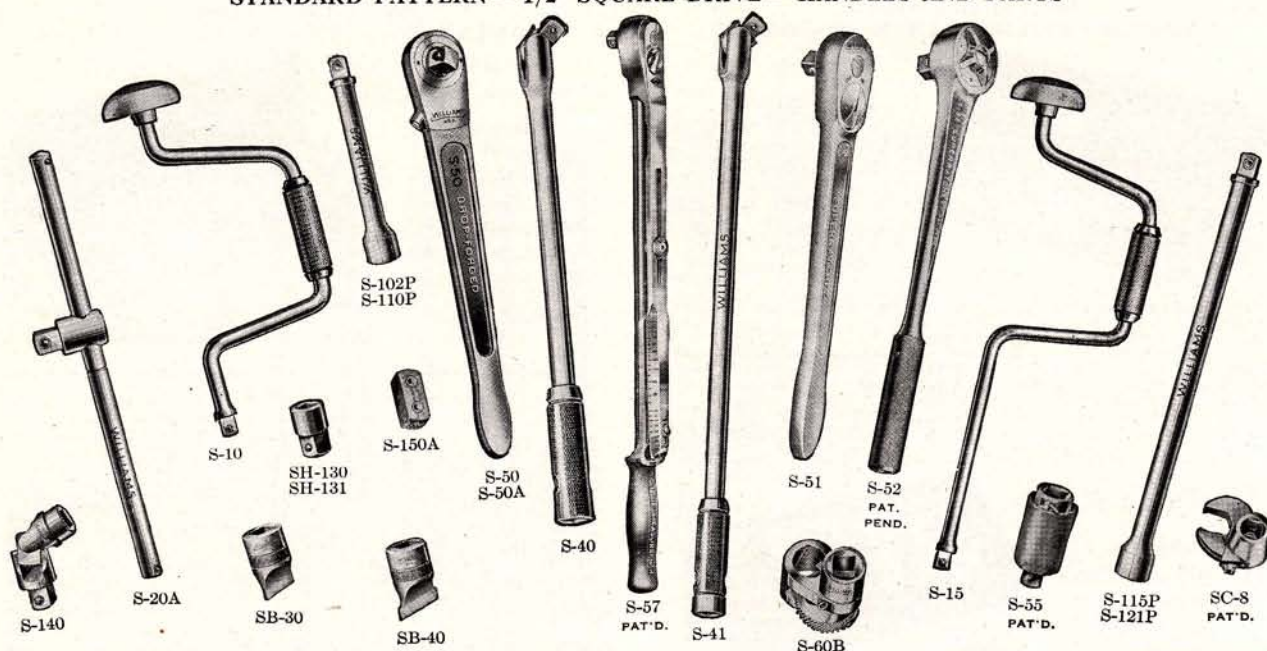
SET No. B-7
Complete
in Cardboard Box
 10 Pieces
 Weight, 3/4 lb.

**CONTENTS**

One Ea. No.	Description	One Ea. No.	Description
B-608	1/4" 6 Pt. Socket ...	B-616	1/2" 6 Pt. Socket ...
B-610	5/16" 6 Pt. Socket ...	B-618	9/16" 6 Pt. Socket ...
B-611	11/32" 6 Pt. Socket ...	B-620	5/8" 6 Pt. Socket ...
B-612	3/8" 6 Pt. Socket ...	B-622	11/16" 6 Pt. Socket ...
B-614	7/16" 6 Pt. Socket ...	B-624	3/4" 6 Pt. Socket ...

WILLIAMS' ♦ "SUPERSOCKET" WRENCHES

STANDARD PATTERN — 1/2" SQUARE DRIVE — HANDLES AND PARTS



No.	PIECE	Packaged Quantity
SC-8	Adjustable Crowfoot Attachment—Capacity, 15/16"	6
S-10	Speeder—12" long, with knurled revolving grips . . .	3
S-15	Speeder—17-1/2" long, with knurled revolving grips	3
S-20A	Sliding T Handle—11" long	3
SB-30	Screw Driver Socket Attach.—7/64 x 15/16" blade	3
SB-40	Screw Driver Socket Attach.—3/32 x 1-1/4" blade	3
S-40	Flex Handle—12" long; flexible head. Knurled grip with 1/2" square drive hole in end. May be used as Extension; 7/16" round cross hole for Bar.	6
S-41	Flex Handle—17-1/4"—flexible head. Knurled grip—1/2" square drive hole in end for use as Extension; 7/16" round cross hole for Bar.	6
S-42B	Sliding Bar, 7/16" x 9", for Flex Hdle. S-40 and S-41	6
S-50	Ratchet—10" long, with Locked-in Plug Connector	6
S-50A	Ratchet—10" long, without Plug Connector.	6
S-51	Reversible Ratchet—10-1/2" long, 24 teeth in Ratchet gear. Shift-lever reverses action instantly	6

No.	P I E C E	Pkgd. Quan.
S-52	Reversible Ratchet—11-1/4" long. Concentric type mechanism of 82 tooth action permits rotation of nuts in close quarters. Shifter reverses action instantly...	6
S-55	Reversible Ratchet Adapter—2-9/16" long; outside diameter 1-1/4". Shift-lever reverses action instantly.	3
S-57	Torque "Measurerech"—19-1/2" long; indicates R.H. Torque. Has torque-indicating signal. See page 15.	1
S-60B	Stud Remover—1/2" sq. dr. Stud capacity 1/4" to 3/4"	3
S-102P	Extension Bar—2-1/2" long.	6
S-110P	Extension Bar—5-1/2" long.	6
S-115P	Extension Bar—10-1/2" long.	6
S-121P	Extension Bar—20" long.	6
SH-130	Adapter—1/2" square female and 3/4" square male	3
SH-131	Adapter—1/2" square male and 3/4" square female	3
S-140	Universal Joint—Spring tension maintains angle desired	6
S-150A	Ratchet Plug-Connector for S-50 Ratchet.	6



**Regular
6-Point
Opening**



**Regular
12-Point
Opening**



Universal 12-Point Opening



Regular 8-Point Opening

REGULAR SOCKETS

Williams Standard Sockets, with 6-point, 12-point and 8-point openings as listed below, have thin walls for work in close places.

All Universal Sockets have an operating range of approximately 130° and are fitted with spring tension to maintain the operating angle desired. Accurately made from Selected Alloy Steel, heat-treated and chrome-plated.

Whitworth Standard and Metric sizes available; information on request

Nominal Opening	6 AND 12-POINT OPENINGS FOR HEX NUTS										8-POINT OPENINGS		
	Straight Wall 6-Point Sockets		Straight Wall 12-Point Sockets		Universal 12-Point Sockets		For Amer. Std. Heavy Nut (U.S.S.); Size Bolt	For Amer. Std. Hex Head Cap Screw Diam. Screw	For Amer. Std. Light Nut (S.A.E.); Size Bolt	For Amer. Std. Regular Nut; Size Bolt	No.	Pkg. Qty.	Nomi- nal Open- ing
	No.	Pkgd. Quan.	No.	Pkgd. Quan.	No.	Pkgd. Quan.							
3/8	ST-612	6	ST-1212	6				3/16			ST-810	6	5/16
7/16	ST-614	6	ST-1214	6				1/4			ST-812	6	3/8
1/2	ST-616	6	ST-1216	6	SU-1216	6	1/4	5/16	5/16		ST-814	6	7/16
9/16	ST-618	6	ST-1218	6	SU-1218	6		3/8	3/8	5/16			
* 9/16	SF-618	6	†SF-1218	6							ST-816	6	1/2
19/32	ST-619	6	ST-1219	6			5/16				ST-818	6	9/16
5/8	ST-620	6	ST-1220	6	SU-1220	6		7/16	7/16	3/8			
21/32	ST-621	6	ST-1221	6							ST-818	6	9/16
11/16	ST-622	6	ST-1222	6	SU-1222	6	3/8				†ST-0818	6	9/16
3/4	ST-624	6	ST-1224	6	SU-1224	6		1/2	1/2	7/16			
25/32	ST-625	6	ST-1225	6			7/16				ST-820	6	5/8
13/16	ST-626	6	ST-1226	6				9/16		1/2			
7/8	ST-628	6	ST-1228	6			1/2	5/8	9/16	9/16	ST-822	6	11/16
15/16	ST-630	6	ST-1230	6			9/16		5/8		ST-822	6	11/16
31/32			ST-1231	6							ST-824	6	3/4
1	ST-632	6	ST-1232	6				3/4		5/8	ST-824	6	3/4
1 1/16			ST-1234	6			5/8		3/4		ST-828	6	7/8
1 1/8			ST-1236	6				7/8		3/4	ST-828	6	7/8
1 3/16			ST-1238	6							ST-832	6	1
1 1/4			ST-1240	6			3/4		7/8		ST-832	6	1

* All Ford 6, Ford-Mercury V-8, 85 HP, 90 HP and 100 HP Connecting Rods. Use with Torque wrench required on models having "Marsden" self-locking nuts. †Discontinued: will supply until stock is exhausted.

◆ REGISTERED TRADE MARK

† Discontinued: will supply until stock is exhausted.
† For all Ford V-8 85 HP Main Bearing bolt heads.

WILLIAMS' "SUPERSOCKET" WRENCHES

Selected Alloy Steel

STANDARD PATTERN—1/2" SQUARE DRIVE
EXTRA DEEP 12-POINT SOCKETS



Especially designed for Spark Plug and other service, such as U Bolts and Brake-Rod-Ends, where the nuts lie some distance from the outer end of the threaded stem. Their 12-point openings permit operation in close quarters where the handle can be swung only 30°.

Carefully formed from Selected Alloy Steel, heat-treated and chrome-plated.

12-Point Opening	EXTRA DEEP Sockets			Amer. Std. Heavy Nut (USS); Size Bolt	Amer. Std. Hex Head Cap Screw; Diam. Screw	Amer. Std. Light Nut (SAE); Size Bolt	Amer. Std. Regl. Nut; Size Bolt
	No.	Length	Pkg. Qty.				
1/2	SD-1216	3-1/4	3	1/4	5/16	5/16	5/16
* 9/16	SD-1218	3-1/4	3	3/8	3/8	3/8	3/8
* 5/8	SD-1220	3-1/4	3	7/16	7/16	7/16	7/16
* 11/16	SD-1222	3-1/4	3	3/8	1/2	1/2	7/16
3/4	SD-1224	3-1/4	3	7/16	9/16	9/16	1/2
25/32	SD-1225	3-1/4	3	1/2	5/8	5/8	9/16
* 13/16	SD-1226	3-1/4	3	9/16	5/8	5/8	5/8
7/8	SD-1228	3-1/4	3	5/8	3/4	3/4	3/4
* 7/8	SD-1228T	3-1/4	3	9/16	7/8	7/8	7/8
* 15/16	SD-1230	3-1/4	3	5/8	7/8	7/8	7/8
* 1	SD-1232	3-1/4	3	7/8	1	1	1
1-1/16	SD-1234	3-1/4	3	1	1-1/16	1-1/16	1-1/16
* 1-1/8	SD-1236	3-1/4	3	1-1/8	1-1/8	1-1/8	1-1/8

* Popular Spark Plug Sizes.

† Not guaranteed because of extra thin walls.

SD-1220 services AC No. 104, Champion Nos. Y-4A and Y-5, 10 mm. Plugs.

SD-1222 services AC No. 103-S, AC No. M-8, Champion No. Y-4 and Auto-Lite No. P-4, 10 mm. Spark Plugs.

SD-1226 services 14mm. Spark Plugs.

SD-1228T services 18mm. Spark Plugs.

SD-1230 services many buses and trucks.

SD-1232 services 18mm. Spark Plugs on cars; also many buses and trucks.

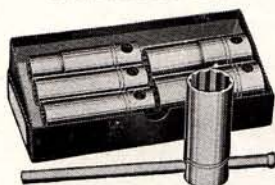
SD-1236 services many buses and trucks.

WILLIAMS'

"SUPERSOCKET" WRENCH SETS

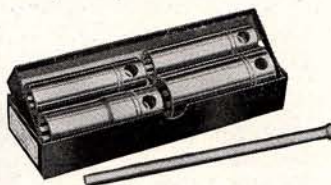
Selected Alloy Steel

STANDARD PATTERN—1/2" SQUARE DRIVE



SET No. S-8
With 7" Sliding Bar
In Cardboard Box
Weight, 2-3/8 lbs.

One Ea. No.	Description
SD-1218	9/16" 12 Pt. Deep Skt.
SD-1220	5/8" 12 Pt. Deep Skt.
SD-1222	11/16" 12 Pt. Deep Skt.
SD-1226	13/16" 12 Pt. Deep Skt.
SD-1228	7/8" 12 Pt. Deep Skt.
SD-1232	1" 12 Pt. Deep Skt.



SET No. S-9
With 7" Sliding Bar
In Cardboard Box
Weight, 1-5/8 lbs.

One Ea. No.	Description
SD-1220	5/8" 12 Pt. Deep Skt.
SD-1222	11/16" 12 Pt. Deep Skt.
SD-1226	13/16" 12 Pt. Deep Skt.
SD-1232	1" 12 Pt. Deep Skt.

SET No. S-11

Complete
in Cardboard Box
5 Pieces
Weight, 1-1/4 lbs.



CONTENTS		CONTENTS	
One Ea. No.	Description	One Ea. No.	Description
SU-1216	1/2" 12 Pt. Univ. Skt.	SU-1222	11/16" 12 Pt. Univ. Skt.
SU-1218	9/16" 12 Pt. Univ. Skt.	SU-1224	3/4" 12 Pt. Univ. Skt.
SU-1220	5/8" 12 Pt. Univ. Skt.		

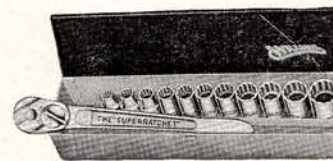
★ REGISTERED TRADE MARK

WILLIAMS'

"SUPERSOCKET" WRENCH SETS

Selected Alloy Steel

STANDARD PATTERN—1/2" SQUARE DRIVE



SET No. S-1
In Metal Case
12 Pieces
Weight, 4-3/4 lbs.

SET No. S-2
In Metal Case
9 Pieces
Weight, 5-1/8 lbs.

SET No. S-3
In Metal Case
10 Pieces
Weight, 5-1/8 lbs.

2 Color Steel Case—2-1/8 x 3 x 12-1/2"
Weight, 1-5/8 lbs.

One Ea. No.	Description	One Ea. No.	Description
-------------	-------------	-------------	-------------

CONTENTS—SET No. S-1

ST-1212	3/8" 12 Pt. Socket ...	ST-1222	11/16" 12 Pt. Socket ...
ST-1214	7/16" 12 Pt. Socket ...	ST-1224	3/4" 12 Pt. Socket ...
ST-1216	1/2" 12 Pt. Socket ...	ST-1225	25/32" 12 Pt. Socket ...
ST-1218	9/16" 12 Pt. Socket ...	ST-1228	7/8" 12 Pt. Socket ...
ST-1219	19/32" 12 Pt. Socket ...	ST-1232	1" 12 Pt. Socket ...
ST-1220	5/8" 12 Pt. Socket ...	S-52	Revers. Ratchet, 11-1/4"

CONTENTS—SET No. S-2

ST-1216	1/2" 12 Pt. Socket ...	ST-1231	31/32" 12 Pt. Socket ...
ST-1219	19/32" 12 Pt. Socket ...	ST-1234	1-1/16" 12 Pt. Socket ...
ST-1222	11/16" 12 Pt. Socket ...	ST-1240	1-1/4" 12 Pt. Socket ...
ST-1225	25/32" 12 Pt. Socket ...	S-52	Revers. Ratchet, 11-1/4"
ST-1228	7/8" 12 Pt. Socket ...		

CONTENTS—SET No. S-3

ST-1214	7/16" 12 Pt. Socket ...	ST-1228	7/8" 12 Pt. Socket ...
ST-1216	1/2" 12 Pt. Socket ...	ST-1230	15/16" 12 Pt. Socket ...
ST-1218	9/16" 12 Pt. Socket ...	ST-1234	1-1/16" 12 Pt. Socket ...
ST-1220	5/8" 12 Pt. Socket ...	ST-1240	1-1/4" 12 Pt. Socket ...
ST-1224	3/4" 12 Pt. Socket ...	S-52	Revers. Ratchet, 11-1/4"

SET No. S-4

Complete
in Metal Case
20 Pieces
19 Sockets and
1 Attachment

Total Weight,
8-1/8 lbs.
2 Color

Steel Case Only
2-1/8 x 3-3/4 x 12"
Weight, 1-7/8 lbs.



CONTENTS

One Ea. No.	Description	One Ea. No.	Description
ST-1212	3/8" 12 Pt. Socket ...	ST-1226	13/16" 12 Pt. Socket ...
ST-1214	7/16" 12 Pt. Socket ...	ST-1228	7/8" 12 Pt. Socket ...
ST-1216	1/2" 12 Pt. Socket ...	ST-1230	15/16" 12 Pt. Socket ...
ST-1218	9/16" 12 Pt. Socket ...	ST-1231	31/32" 12 Pt. Socket ...
ST-1219	19/32" 12 Pt. Socket ...	ST-1232	1" 12 Pt. Socket ...
ST-1220	5/8" 12 Pt. Socket ...	ST-1234	1-1/16" 12 Pt. Socket ...
ST-1221	21/32" 12 Pt. Socket ...	ST-1236	1-1/8" 12 Pt. Socket ...
ST-1222	11/16" 12 Pt. Socket ...	ST-1238	1-3/16" 12 Pt. Socket ...
ST-1224	3/4" 12 Pt. Socket ...	ST-1240	1-1/4" 12 Pt. Socket ...
ST-1225	25/32" 12 Pt. Socket ...	S-52	Revers. Ratchet, 11-1/4"

SET No. S-12

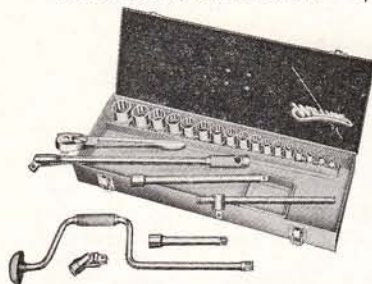
Complete in Cardboard Box
15 Pieces
Weight, 2-3/4 lbs.



CONTENTS	
One Ea. No.	Description
ST-612	3/8" 6 Pt. Socket ...
ST-614	7/16" 6 Pt. Socket ...
ST-616	1/2" 6 Pt. Socket ...
ST-618	9/16" 6 Pt. Socket ...
*SF-618	9/16" 6 Pt. Socket ...
ST-619	19/32" 6 Pt. Socket ...
ST-620	5/8" 6 Pt. Socket ...
ST-621	21/32" 6 Pt. Socket ...
ST-622	11/16" 6 Pt. Socket ...
ST-624	3/4" 6 Pt. Socket ...
ST-625	25/32" 6 Pt. Socket ...
ST-626	13/16" 6 Pt. Socket ...
ST-628	7/8" 6 Pt. Socket ...
ST-630	15/16" 6 Pt. Socket ...
ST-632	1" 6 Pt. Socket ...

* All Ford 6, Ford-Mercury V-8, 85 HP, 90 HP and 100 HP Connecting Rods. Use with Torque wrench required on models having "Marsden" self-locking nuts.

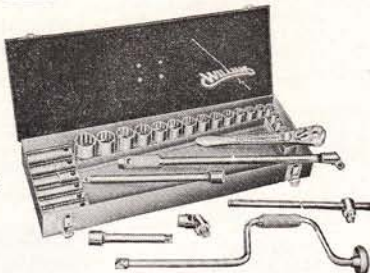
WILLIAMS' "SUPERSOCKET" WRENCH SETS
Selected Alloy Steel
STANDARD PATTERN—1/2" Square Drive



SET No. S-5
Complete
in Metal Case
24 Pieces—
17 Sockets
and 7 Attachments
Total Weight, 18 lbs.
2 Color Steel Case Only
2-1/4 x 7-1/2 x 20-3/4"
Weight, 6 lbs.

One Ea. No.	Description	One Ea. No.	Description
ST-1212	3/8" 12 Pt. Socket	ST-1231	31/32" 12 Pt. Socket
ST-1214	7/16" 12 Pt. Socket	ST-1232	1" 12 Pt. Socket
ST-1216	1/2" 12 Pt. Socket	ST-1234	1-1/16" 12 Pt. Socket
ST-1218	9/16" 12 Pt. Socket	ST-1236	1-1/8" 12 Pt. Socket
ST-1219	19/32" 12 Pt. Socket	ST-1240	1-1/4" 12 Pt. Socket
ST-1220	5/8" 12 Pt. Socket	S-15	Speeder, Revol. Grips, 17-1/2"
ST-1222	11/16" 12 Pt. Socket	S-20A	Sliding T Handle, 11"
ST-1224	3/4" 12 Pt. Socket	S-41	Flex Handle, 17-1/4"
ST-1225	25/32" 12 Pt. Socket	S-52	Reversible Ratchet, 11-1/4"
ST-1226	13/16" 12 Pt. Socket	S-110 P	Extension Bar, 5-1/2"
ST-1228	7/8" 12 Pt. Socket	S-115 P	Extension Bar, 10-1/2"
ST-1230	15/16" 12 Pt. Socket	S-140	Universal Joint

SET No. S-6
Complete
in Metal Case
30 Pieces—
23 Sockets
and 7 Attachments
Total Weight, 20-1/4 lbs.
2 Color Steel Case Only
2-1/4 x 7-1/2 x 20-3/4"
Weight, 6 lbs.



One Ea. No.	Description	One Ea. No.	Description
ST-1212	3/8" 12 Pt. Socket	ST-1236	1-1/8" 12 Pt. Socket
ST-1214	7/16" 12 Pt. Socket	ST-1240	1-1/4" 12 Pt. Socket
ST-1216	1/2" 12 Pt. Socket	SD-1218	9/16" 12 Pt. Deep Socket
ST-1218	9/16" 12 Pt. Socket	SD-1220	5/8" 12 Pt. Deep Socket
ST-1219	19/32" 12 Pt. Socket	SD-1222	11/16" 12 Pt. Deep Socket
ST-1220	5/8" 12 Pt. Socket	SD-1226	13/16" 12 Pt. Deep Socket
ST-1222	11/16" 12 Pt. Socket	SD-1228	7/8" 12 Pt. Deep Socket
ST-1224	3/4" 12 Pt. Socket	SD-1232	1" 12 Pt. Deep Socket
ST-1225	25/32" 12 Pt. Socket	S-15	Speeder, Revol. Grips, 17-1/2"
ST-1226	13/16" 12 Pt. Socket	S-20A	Sliding T Handle, 11"
ST-1228	7/8" 12 Pt. Socket	S-41	Flex Handle, 17-1/4"
ST-1230	15/16" 12 Pt. Socket	S-52	Reversible Ratchet, 11-1/4"
ST-1231	31/32" 12 Pt. Socket	S-110 P	Extension Bar, 5-1/2"
ST-1232	1" 12 Pt. Socket	S-115 P	Extension Bar, 10-1/2"
ST-1234	1-1/16" 12 Pt. Socket	S-140	Universal Joint

WILLIAMS' RATCHET REPAIR KIT

No. PAS-51
For S-51 Standard
"Superratchet"
Complete in
Compartmented
Cardboard Box

Total Weight, 2-1/4 Lbs.



In addition to a complete assortment of replacement parts, Williams Ratchet Repair Kits each contain one special spanner wrench. This wrench fits the retaining ring (gland), the only part requiring a tool for assembly or disassembly, for which printed instructions are included in each kit.

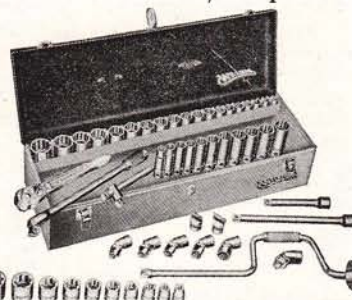
CONTENTS

2 Retaining Ring (Gland)	2 Shifter Bolt
6 Ratchet Gear and Plug	6 Shifter Bolt Pin
6 Dog (Pawl)	6 Plunger (Ball)
6 Bearing Pin	1 Special Spanner for Gland
6 Spring (Plunger Spring)	

Replacement Parts are also sold separately

★ REGISTERED TRADE MARK

WILLIAMS' "SUPERSOCKET" WRENCH SETS
Selected Alloy Steel
STANDARD PATTERN—1/2" Square Drive



SET No. S-7
Complete in Metal Case
44 Pieces
35 Sockets and 9 Attachments
Total Weight, 27 lbs.
2 Color Steel Case Only — 5-3/8 x 7-1/2 x 23-1/4" — Weight, 8-5/8 lbs.

SET No. S-7A
Complete in Metal Case
54 Pieces
45 Sockets and 9 Attachments
Total Weight, 30 lbs.

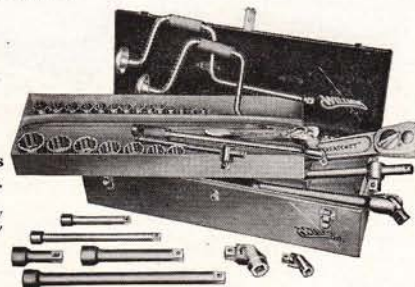
CONTENTS

One Ea. No.	Description	One Ea. No.	Description
*ST-810	5/16" 8 Pt. Socket	ST-1238	1-3/16" 12 Pt. Socket
*ST-812	3/8" 8 Pt. Socket	ST-1240	1-1/4" 12 Pt. Socket
*ST-814	7/16" 8 Pt. Socket	SD-1216	1/2" 12 Pt. Deep Socket
*ST-816	1/2" 8 Pt. Socket	SD-1218	9/16" 12 Pt. Deep Socket
*ST-818	9/16" 8 Pt. Socket	SD-1220	5/8" 12 Pt. Deep Socket
*ST-820	5/8" 8 Pt. Socket	SD-1222	11/16" 12 Pt. Deep Socket
*ST-822	11/16" 8 Pt. Socket	SD-1224	3/4" 12 Pt. Deep Socket
*ST-824	3/4" 8 Pt. Socket	SD-1226	13/16" 12 Pt. Deep Socket
*ST-828	7/8" 8 Pt. Socket	SD-1228	7/8" 12 Pt. Deep Socket
*ST-832	1" 8 Pt. Socket	SD-1230	15/16" 12 Pt. Deep Socket
ST-1212	3/8" 12 Pt. Socket	SD-1232	1" 12 Pt. Deep Socket
ST-1214	7/16" 12 Pt. Socket	SD-1234	1-1/16" 12 Pt. Deep Socket
ST-1216	1/2" 12 Pt. Socket	SD-1236	1-1/8" 12 Pt. Deep Socket
ST-1218	9/16" 12 Pt. Socket	SU-1216	1/2" 12 Pt. Univ. Socket
ST-1219	19/32" 12 Pt. Socket	SU-1218	9/16" 12 Pt. Univ. Socket
ST-1220	5/8" 12 Pt. Socket	SU-1220	5/8" 12 Pt. Univ. Socket
ST-1221	21/32" 12 Pt. Socket	SU-1222	11/16" 12 Pt. Univ. Socket
ST-1222	11/16" 12 Pt. Socket	SU-1224	3/4" 12 Pt. Univ. Socket
ST-1224	3/4" 12 Pt. Socket	S-15	Speeder, Revol. Grips, 17-1/2"
ST-1225	25/32" 12 Pt. Socket	S-20A	Sliding T Handle, 11"
ST-1226	13/16" 12 Pt. Socket	S-41	Flex Handle, 17-1/4"
ST-1228	7/8" 12 Pt. Socket	S-52	Reversible Ratchet, 11-1/4"
ST-1230	15/16" 12 Pt. Socket	S-110 P	Extension Bar, 5-1/2"
ST-1231	31/32" 12 Pt. Socket	S-115 P	Extension Bar, 10-1/2"
ST-1232	1" 12 Pt. Socket	S-140	Universal Joint
ST-1234	1-1/16" 12 Pt. Socket	SB-30	Drag Link Socket Bit
ST-1236	1-1/8" 12 Pt. Socket	SB-40	Drag Link Socket Bit

* Not included in Set No. S-7.

SET No. S-10
Complete
in Metal Case
36 Pieces—
21 Sockets
and 15 Attachments
Total Weight, 50 lbs.

2 Color Steel Case Only
6-3/4 x 7-1/2 x 23-1/4"
Weight, 12-3/8 lbs.

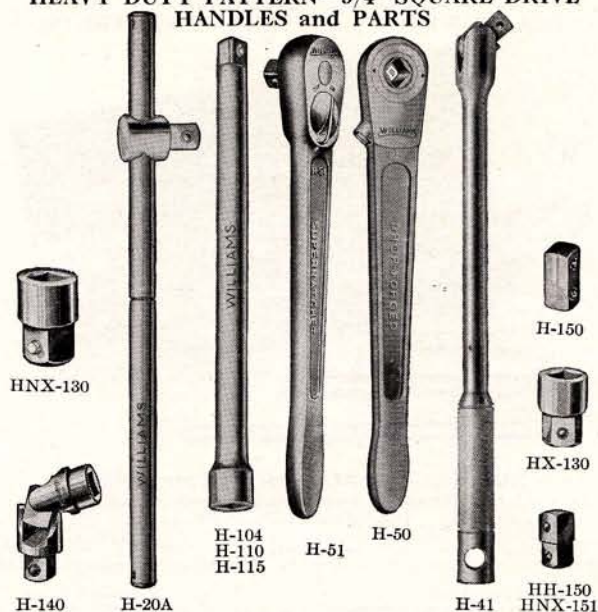


CONTENTS

One Ea. No.	Description	One Ea. No.	Description
ST-1212	3/8" 12 Pt. Socket	H-1246	1-7/16" 12 Pt. Socket
ST-1214	7/16" 12 Pt. Socket	H-1248	1-1/2" 12 Pt. Socket
ST-1216	1/2" 12 Pt. Socket	H-1252	1-5/8" 12 Pt. Socket
ST-1218	9/16" 12 Pt. Socket	S-10	Speeder, Revol. Grips, 12"
ST-1219	19/32" 12 Pt. Socket	S-15	Speeder, Revol. Grips, 17-1/2"
ST-1220	5/8" 12 Pt. Socket	S-20A	Sliding T Handle, 11"
ST-1222	11/16" 12 Pt. Socket	S-41	Flex Handle, 17-1/4"
ST-1224	3/4" 12 Pt. Socket	S-52	Reversible Ratchet, 11-1/4"
ST-1225	25/32" 12 Pt. Socket	S-110 P	Extension Bar, 5-1/2"
ST-1226	13/16" 12 Pt. Socket	S-115 P	Extension Bar, 10-1/2"
ST-1228	7/8" 12 Pt. Socket	S-140	Universal Joint
ST-1230	15/16" 12 Pt. Socket	H-20A	Sliding T Handle, 17-1/2"
ST-1231	31/32" 12 Pt. Socket	H-41	Flex Handle, 20"
ST-1232	1" 12 Pt. Socket	H-51	Reversible Ratchet, 19"
H-1234	1-1/16" 12 Pt. Socket	H-104	Extension Bar, 4"
H-1236	1-1/8" 12 Pt. Socket	H-110	Extension Bar, 8"
H-1240	1-1/4" 12 Pt. Socket	H-115	Extension Bar, 15-1/2"
H-1242	1-5/16" 12 Pt. Socket	H-140	Universal Joint

WILLIAMS' "SUPERSOCKET" WRENCHES

Selected Alloy Steel
HEAVY DUTY PATTERN—3/4" SQUARE DRIVE
HANDLES and PARTS



No.	PIECE	Pkgd. Quan.
H-20A	Sliding T Handle—17-1/2" long.	3
H-41	Flex Handle—20" long; flexible head, knurled grip and cross hole for Sliding Bar.	3
H-41B	Sliding Bar, 3/4" x 16" for H-41 and NX-41.	3
H-50	Ratchet—18-1/2" long; complete with Plug-Connector for H-150.	3
H-51	Reversible Ratchet—19" long, 24 teeth in Ratchet gear instead of usual 16. Shift lever reverses action instantly.	3
H-104	Extension Bar—4" long.	3
H-110	Extension Bar—8" long.	3
H-115	Extension Bar—15-1/2" long.	3
HNX-130	Adapter, 3/4" square female and 1" square male.	3
HX-130	Adapter, 3/4" square female and 1" hex male.	3
H-140	Universal Joint—Spring tension maintains operating angle desired—range approx. 140°.	3
H-150	Ratchet Plug-Connector.	3
HH-150	Plug-Adapter, 5/8" and 3/4" square male.	3
HNX-151	Adapter, 3/4" square male and 1" square male.	3

SOCKETS

Williams Heavy Duty Sockets are designed for harder service where more strength is required than on the every-day job. Will rotate nuts completely where handle can be swung only 30°.



Regular 12-Pt.



Extra Deep 12-Pt.

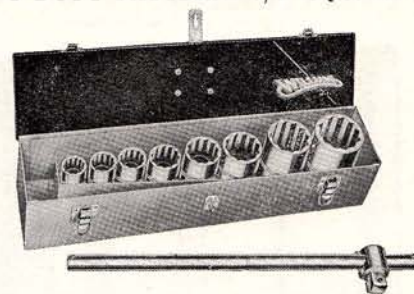
Size Opening	Regular		*Extra Deep		Amer. Std. Heavy Nut (USS)	Amer. Hx. Hd. Cap Screw	Amer. Std. Light Nut (SAE)	Amer. Std. Regl. Nut
	No.	Pkg. Qty.	No.	Pkg. Qty.				
7/8	H-1228	2	HD-1230	3	1/2	5/8	9/16	9/16
15/16	H-1230	2			9/16		5/8	
31/32	H-1231	2						
1	H-1232	2				3/4		5/8
1 1/16	H-1234	2	HD-1234	3	5/8		3/4	
1 1/8	H-1236	2				7/8		3/4
1 3/16	H-1238	2						
1 1/4	H-1240	2	HD-1240	3	3/4		7/8	
1 5/16	H-1242	2				1		7/8
1 3/8	H-1244	2						
1 7/16	H-1246	2	HD-1246	3	7/8		1	
1 1/2	H-1248	2				1-1/8		1
1 5/8	H-1252	2			1		1-1/8	1-1/8
1 11/16	H-1254	2				1-1/4		
1 3/4	H-1256	2					1-1/4	
1 13/16	H-1258	1			1-1/8			
1 7/8	H-1260	1					1-1/4	
2	H-1264	1			1-1/4		1-3/8	
2 1/16	H-1266	1						1-3/8
2 1/8	H-1268	1					1-1/2	
2 3/16	H-1270	1			1-3/8			
2 1/4	H-1272	1						1-1/2

* REGISTERED TRADE MARK

* 3-1/4" to 3-1/2" long.

"SUPERSOCKET" WRENCH SETS

Selected Alloy Steel
HEAVY DUTY PATTERN—3/4" SQUARE DRIVE

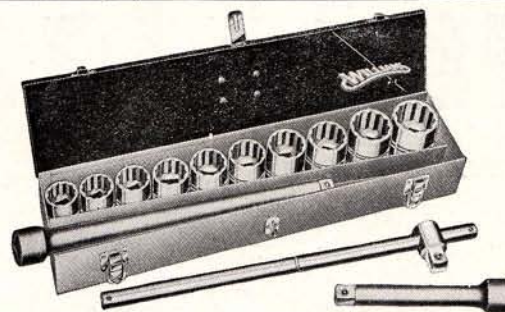


SET No. H-1—Complete in Metal Case

9 Pieces—8 Sockets and 1 Attachment
Total Weight, 14-7/8 lbs.

2 Color Steel Case Only—5-3/8 x 4 x 18" — Weight, 4-1/2 lbs.

One Ea. No.	Description	One Ea. No.	Description
H-1228	7/8" 12 Pt. Socket.	H-1252	1- 5/8" 12 Pt. Socket.
H-1231	31/32" 12 Pt. Socket.	H-1258	1-13/16" 12 Pt. Socket.
H-1234	1-1/16" 12 Pt. Socket.	H-1264	2" 12 Pt. Socket.
H-1240	1-1/4" 12 Pt. Socket.	H-20A	Sliding T Handle, 17-1/2"
H-1246	1-7/16" 12 Pt. Socket.		

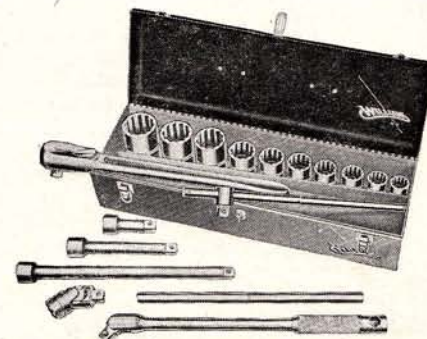


SET No. H-2—Complete in Metal Case

13 Pieces—10 Sockets and 3 Attachments
Total Weight, 20-3/4 lbs.

2 Color Steel Case Only—2-3/4 x 4-1/2 x 19-3/4" — Weight, 4-3/4 lbs.

One Ea. No.	Description	One Ea. No.	Description
H-1234	1-1/16" 12 Pt. Socket.	H-1248	1-1/2" 12 Pt. Socket.
H-1236	1-1/8" 12 Pt. Socket.	H-1252	1-5/8" 12 Pt. Socket.
H-1238	1-3/16" 12 Pt. Socket.	H-1256	1-3/4" 12 Pt. Socket.
H-1240	1-1/4" 12 Pt. Socket.	H-20A	Sliding T Handle, 17-1/2"
H-1242	1-5/16" 12 Pt. Socket.	H-110	Extension Bar, 8"
H-1244	1-3/8" 12 Pt. Socket.	H-115	Extension Bar, 15-1/2"
H-1246	1-7/16" 12 Pt. Socket.		



SET No. H-3—Complete in Metal Case

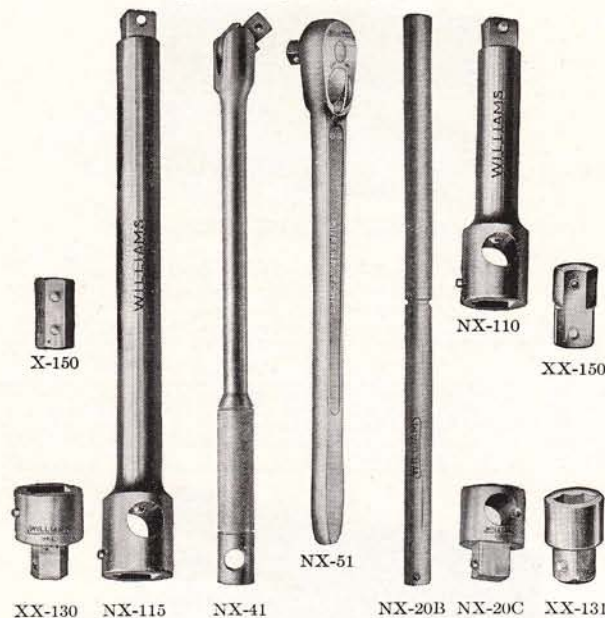
18 Pieces—10 Sockets and 8 Attachments
Total Weight, 41-1/8 lbs.

2 Color Steel Case Only—5-3/8 x 7-1/2 x 23-1/4" — Weight, 7-1/2 lbs.

One Ea. No.	Description	One Ea. No.	Description
H-1234	1- 1/16" 12 Pt. Socket.	H-1264	2" 12 Pt. Socket.
H-1236	1- 1/8" 12 Pt. Socket.	H-20A	Sliding T Handle, 17-1/2"
H-1240	1- 1/4" 12 Pt. Socket.	H-41	Flex Handle, 20"
H-1242	1- 5/16" 12 Pt. Socket.	H-41B	Sliding Bar for H-41
H-1246	1- 7/16" 12 Pt. Socket.	H-51	Reversible Ratchet, 19"
H-1248	1- 1/2" 12 Pt. Socket.	H-104	Extension Bar, 4"
H-1252	1- 5/8" 12 Pt. Socket.	H-110	Extension Bar, 8"
H-1258	1-13/16" 12 Pt. Socket.	H-115	Extension Bar, 15-1/2"
H-1260	1- 7/8" 12 Pt. Socket.	H-140	Universal Joint.

WILLIAMS' ♦ "SUPERSOCKET" WRENCHES

Selected Alloy Steel

EXTRA HEAVY DUTY PATTERN—1" SQUARE DRIVE
HANDLES and PARTS

No.	PIECE	Pkgd. Quan.
NX-20B	Sliding Handle—1" diam., 20" long.	2
NX-20C	Adapter—for Sliding Handle NX-20B.	2
NX-41	Flex Handle 27" long; flexible head, knurled grip and cross-hole for Sliding Bar H-41B, Page 11.	2
NX-51	Reversible Ratchet—25" long, 24 teeth in Ratchet gear instead of usual 16. Shift lever reverses action instantly.	2
NX-110	Extension Bar—9" long.	2
NX-115	Extension Bar—18" long.	2
X-150	Ratchet Plug-Connector—1" hex.	3
XX-130	Adapter—1" square Female and 1" hex Male.	3
XX-131	Adapter—1" hex Female and 1" square Male.	3
XX-150	Adapter—1" square Male and 1" hex Male.	3

SOCKETS



12-Pt.

In addition to the 1" square drive opening in their base, these sockets are cross-drilled to receive the Sliding Handle. Will rotate nuts completely where the handle can be swung only 30°.

Another feature is the "Lock-Socket" device which provides a positive lock between the sockets and attachments. To release the

"Lock-Socket" simply press the button on the socket and pull. Made from Selected Alloy Steel, heat-treated and chrome-plated.

Nominal Opening	No.	Amer. Std. Heavy Nut (U.S.S.); Size Bolt	Amer. Std. Hex Head Cap Screw; Diam. Screw	Amer. Std. Light Nut Regular (S.A.E.); Size Bolt	Amer. Std. Regular Nut; Size Bolt	Pack- aged Qty.
1 1/16	NX-1234	5/8		3/4		2
1 1/8	NX-1236		7/8		3/4	2
1 1/4	NX-1240	3/4		7/8		2
1 3/8	NX-1244					2
1 7/16	NX-1246	7/8		1		2
1 1/2	NX-1248		1-1/8		1	2
1 5/8	NX-1252	1		1-1/8		1
1 3/16	NX-1258	1-1/8		1-1/4		1
1 7/8	NX-1260				1-1/4	1
2	NX-1264	1-1/4		1-3/8		1
2 1/8	NX-1268					1
2 3/16	NX-1270	1-3/8		1-1/2		1
2 1/4	NX-1272				1-1/2	1
2 3/8	NX-1276	1-1/2				1
2 1/2	NX-1280					1
2 9/16	NX-1282	1-5/8				1
2 5/8	NX-1284				1-3/4	1
2 3/4	NX-1288	1-3/4				1
2 15/16	NX-1294	1-7/8				1
3 1/8	NX-12100	2				1

† These Sockets have short neck, no cross-hole.

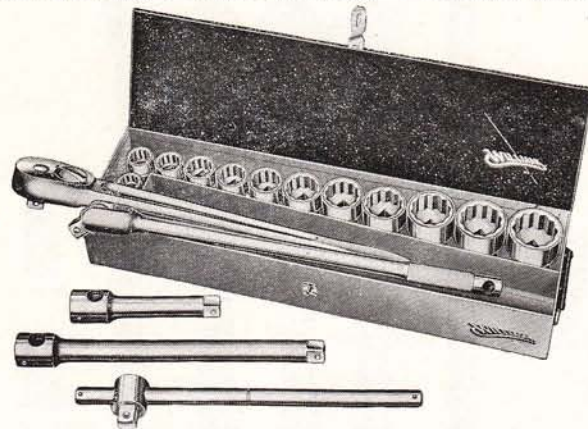
♦ REGISTERED TRADE MARK

WILLIAMS'

♦ "SUPERSOCKET" WRENCH SETS

Selected Alloy Steel

EXTRA HEAVY DUTY PATTERN—1" SQUARE DRIVE



SET No. NX-1—Complete in Metal Case

18 Pieces—12 Sockets and 6 Attachments

Total Weight, 78-3/4 lbs.

2 Color Steel Case Only—4-1/4 x 8 x 29-1/4" — Weight, 17 lbs.

CONTENTS

One Ea. No.	Description	One Ea. No.	Description
NX-1234	1- 1/16" 12 Pt. Socket	NX-1270	2-3/16" 12 Pt. Socket
NX-1236	1- 1/8" 12 Pt. Socket	NX-1272	2-1/4" 12 Pt. Socket
NX-1240	1- 1/4" 12 Pt. Socket	NX-1276	2-3/8" 12 Pt. Socket
NX-1246	1- 7/16" 12 Pt. Socket	NX-20B	Sliding Handle, 1" x 20"
NX-1248	1- 1/2" 12 Pt. Socket	NX-20C	Adapter for NX-20B
NX-1252	1- 5/8" 12 Pt. Socket	NX-41	Flex Handle, 27"
NX-1258	1-13/16" 12 Pt. Socket	NX-51	Reversible Ratchet, 25"
NX-1260	1- 7/8" 12 Pt. Socket	NX-110	Extension Bar, 9"
NX-1264	2" 12 Pt. Socket	NX-115	Extension Bar, 18"

SET No. NX-2

Complete
in Metal Case

10 Pieces

7 Sockets and
3 AttachmentsTotal Weight,
35-1/8 lbs.2 Color
Steel Case Only
4-1/4x5-1/4x20-3/4"
Weight, 10-1/8 lbs.

CONTENTS

One Ea. No.	Description	One Ea. No.	Description
NX-1240	1- 1/4" 12 Pt. Socket	NX-1270	2-3/16" 12 Pt. Socket
NX-1246	1- 7/16" 12 Pt. Socket	NX-1276	2-3/8" 12 Pt. Socket
NX-1252	1- 5/8" 12 Pt. Socket	NX-20B	Sliding Handle, 1" x 20"
NX-1258	1-13/16" 12 Pt. Socket	NX-20C	Adapter for NX-20B
NX-1264	2" 12 Pt. Socket	NX-110	Extension Bar, 9"



SET No. NX-3

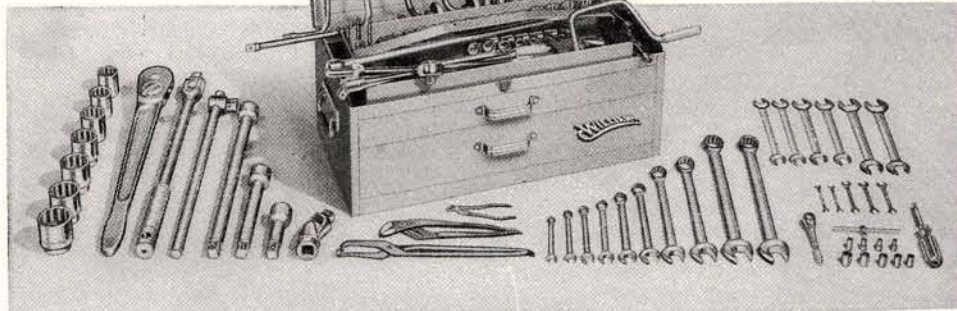
Complete
in Metal Case
12 Pieces7 Sockets and
5 AttachmentsTotal Weight,
57-1/4 lbs.2 Color
Steel Case Only
4-1/4x6-1/2x26"
Weight, 13-1/2 lbs.

CONTENTS

One Ea. No.	Description	One Ea. No.	Description
NX-1240	1- 1/4" 12 Pt. Socket	NX-1276	2-3/8" 12 Pt. Socket
NX-1246	1- 7/16" 12 Pt. Socket	NX-20B	Sliding Handle, 1" x 20"
NX-1252	1- 5/8" 12 Pt. Socket	NX-20C	Adapter for NX-20B
NX-1258	1-13/16" 12 Pt. Socket	NX-51	Reversible Ratchet, 25"
NX-1264	2" 12 Pt. Socket	NX-110	Extension Bar, 9"
NX-1270	2- 3/16" 12 Pt. Socket	NX-115	Extension Bar, 18"

WILLIAMS' "SUPERCHEST" No. 1001

Complete
In 2 Drawer
Metal Chest
11 x 10 x 25"



100 Pieces
44 Sockets
32 Attachments
24 Wrenches, Etc.

The Williams 1001 "Superchest" provides a scientifically matched assortment of wrenches in numerous patterns and detachable sockets with accessories in 1/4, 3/8, 1/2 and 3/4" drives that will meet every conceivable nut turning problem of the Machinist or Master Mechanic.

This smartly designed "Superchest" is constructed of heavy gauge steel adequately reinforced and welded. It is built to last a lifetime. Drawers with handy compartments operate on free acting suspension slides. Removable "tote"

tray has convenient compartments in which to keep sockets. Heavy duty handles provide for transportation. All drawers are automatically locked when cover is lowered and locked by means of combination lock and hasp. Finished in bright Williams orange enamel.

An individual heavy brass nameplate, on which the owner's name will be engraved free of charge, is furnished with each chest.

CONTENTS

"SUPERSOCKETS"

Nominal Opening	No.	Amer. Std. Heavy Nut (USS)	Amer. Std. Hex Head Cap Screw	Amer. Std. Light Nut (SAE)	Amer. Std. Regl. Nut
MIDGET PATTERN 1/4" Square Drive REGULAR 6-POINT					
3/16	NM-606	.....	.....	.....	*2 & 3
7/32	NM-607	.....	.....	.....	.....
1/4	NM-608	.....	.....	.....	*4
9/32	NM-609	.....	.....	.....	.....

REGULAR 12-POINT

5/16	NM-1210	1/8	1/8	.....	*5 & 6
11/32	NM-1211	.....	.....	.....	*8
3/8	NM-1212	.....	3/16	.....	*10
7/16	NM-1214	.....	1/4	1/4	*12 & 1/4
1/2	NM-1216	1/4	5/16	5/16	.....

BANTAM PATTERN
3/8" Square Drive
REGULAR 12-POINT

3/8	B-1212	3/16	*10
7/16	B-1214	.....	1/4	1/4	1/4
1/2	B-1216	1/4	5/16	5/16	.....
9/16	B-1218	.....	3/8	3/8	5/16
5/8	B-1220	7/16	7/16	3/8
11/16	B-1222	3/8
3/4	B-1224	1/2	1/2	7/16

EXTRA DEEP 12-POINT

13/16	BD-1226	9/16	1/2
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STANDARD PATTERN
1/2" Square Drive
REGULAR 12-POINT

3/8	ST-1212	3/16
7/16	ST-1214	1/4	1/4	1/4
1/2	ST-1216	1/4	5/16	5/16	.....
9/16	SF-618	.....	.....	.....	.....
19/32	ST-1218	.....	3/8	3/8	5/16
5/8	ST-1220	.....	7/16	7/16	3/8
21/32	ST-1221	.....	.....	.....	.....
11/16	ST-1222	3/8	.....	.....	.....
3/4	ST-1224	.....	1/2	1/2	7/16
25/32	ST-1225	7/16	.....	.....	.....
13/16	ST-1226	.....	9/16	.....	1/2
7/8	ST-1228	1/2	5/8	9/16	9/16
15/16	ST-1230	9/16	.....	5/8	.....
31/32	ST-1231	.....	.....	.....	.....
1	ST-1232	.....	3/4	.....	5/8

* Machine Screw Nut.

"SUPERSOCKETS"

Nominal Opening	No.	Amer. Std. Heavy Nut (USS)	Amer. Std. Hex Head Cap Screw	Amer. Std. Light Nut (SAE)	Amer. Std. Regl. Nut
EXTRA DEEP 12-POINT					
11/16	SD-1222	3/8	.....	.....	.....
13/16	SD-1226	.....	9/16	.....	1/2
7/8	SD-1228T	.....	.....	.....	.....
1	SD-1232	.....	3/4	.....	5/8
DRAG LINK SOCKET BITS					
15/16	SB-30	Size Blade—7/64 x 15/16"			
1-1/4	SB-40	Size Blade—3/32 x 1-1/4"			

HEAVY DUTY PATTERN
3/4" Square Drive
REGULAR 12-POINT

1-1/16	H-1234	5/8	.....	3/4	.....
1-1/8	H-1236	.....	7/8	.....	3/4
1-1/4	H-1240	3/4	.....	7/8	.....
1-5/16	H-1242	.....	1	.....	7/8
1-7/16	H-1246	7/8	.....	1	.....
1-1/2	H-1248	.....	1-1/8	.....	1
1-5/8	H-1252	1	.....	1-1/8	.....

SOCKET ATTACHMENTS,
WRENCHES, PLIERS

No.	Piece
MIDGET PATTERN 1/4" Square Drive	
NM-20A	Sliding T Handle—4-1/2" long.....
NM-51	REVERSIBLE Ratchet—4-1/2" long.....
NM-106	Extension Driver—6" long.....

BANTAM PATTERN
3/8" Square Drive

B-15	Speeder—16-1/2" long, revolving Grip
B-20A	Sliding T Handle—6-1/2" long.....
B-40	Flex Handle—8" long; flexible head..
B-51	REVERSIBLE Ratchet—6-1/2" long.....
B-108	Extension Bar—3" long.....
B-110	Extension Bar—5-3/4" long.....
B-115	Extension Bar—10-1/2" long.....
B-140	Universal Joint.....
BP-2	Phillips Screw Driver Attachment....
BP-3	Phillips Screw Driver Attachment....
BP-4	Phillips Screw Driver Attachment....

SOCKET ATTACHMENTS,
WRENCHES, PLIERS

No.	Piece
STANDARD PATTERN 1/2" Square Drive	
S-10	Speeder—12" long, revolving Grips..
S-15	Speeder—17-1/2" long, revolving Grip
S-20A	Sliding T Handle—11" long.....
S-41	Flex Handle—17" flexible head....
S-52	REVERSIBLE Ratchet, 11-1/4" long.....
S-110P	Extension Bar—5-1/2" long.....
S-115P	Extension Bar—10-1/2" long.....
S-121P	Extension Bar—20" long.....
S-140	Universal Joint.....

HEAVY DUTY PATTERN
3/4" Square Drive

H-20A	Sliding T Handle—17-1/2" long.....
H-41	Flex Handle—20" long; flexible head..
H-51	REVERSIBLE Ratchet—19" long.....
H-104	Extension Bar—4" long.....
H-110	Extension Bar—8" long.....
H-115	Extension Bar—15-1/2" long.....
H-140	Universal Joint.....

LONG THIN "SUPERRENCHES"

1090D	Openings 1/2" & 9/16"—8" long....
1090D	.....
1092F	Openings 5/8" & 11/16"—8" long....
1092F	.....
1094	Openings 3/4" & 7/8"—9" long.....
1094	.....

MIDGET "SUPERRENCHES"

1106	Openings 13/64 & 7/32"—3" long....
1107	" 15/64 & 1/4"—".....
1108	" 9/32 & 11/32"—".....
1108A	" 1/4 & 5/16"—3-1/2" long.....
1109	" 5/16 & 3/8"—".....

OPEN END-BOX "SUPERRENCHES"

1159	Openings 5/16 & 5/16"—5-1/2" lg.
1160	" 3/8 & 3/8"—6" long....
1161	" 7/16 & 7/16"—6-5/8" lg.
1162	" 1/2 & 1/2"—7-3/16" lg.
1163	" 9/16 & 9/16"—7-15/16" lg.
1164	" 5/8 & 5/8"—8-3/4" lg.
1166	" 3/4 & 3/4"—10-5/8" lg.
1167	" 7/8 & 7/8"—12-11/16" lg.
1168	" 15/16 & 15/16"—13-7/8" lg.
1170	" 1 & 1"—15-1/8" lg.

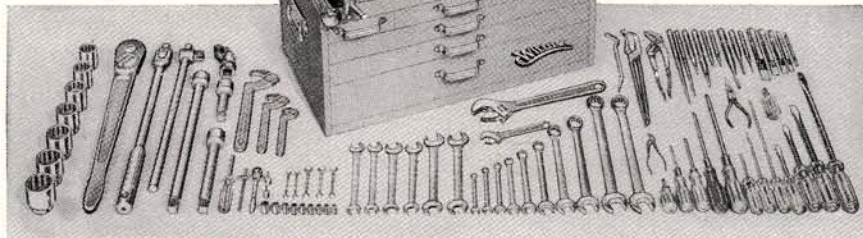
"SUPERPLIERS"

1517	Pliers, 13"; for brake-shoe springs...
1519	Midget, 4-1/2"; 4-position slip-joint..
1520	Standard, 9-1/2"; 8-position slip-joint

WILLIAMS' "SUPERCHEST" No. 2001

Complete
In 6 Drawer
Metal Chest

14-1/2 x 12-1/2 x 25"



146 Pieces

51 Sockets

37 Attachments

58 Wrenches, Etc.

A wide range of "Supersockets" with Attachments in 1/4, 3/8, 1/2 and 3/4" drives gives the operator an extremely flexible wrench system. Additional "Superwrenches," pliers, chisels, screwdrivers, etc. make this set remarkably versatile.

All drawers are automatically locked when cover is lowered

and locked by means of combination lock and hasp. Finished in bright Williams orange enamel.

A heavy brass nameplate, on which the owner's name will be engraved free of charge, is furnished with each chest.

"SUPERSOCKETS"

Nominal Opening	No.	U.S. Std. Nut	Hex Cap Screw	S.A.E. Std. Nut	Amer. Std. Regl. Nut
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MIDGET PATTERN—1/4" Square Drive
REGULAR 6-POINT

3/16	NM-606				*2 & 3
7/32	NM-607				
1/4	NM-608				*4
9/32	NM-609				

REGULAR 12-POINT

5/16	NM-1210	1/8	1/8		*5 & 6
11/32	NM-1211				*8
3/8	NM-1212		3/16		*10
7/16	NM-1214		1/4	1/4	*12 & 1/4
1/2	NM-1216	1/4	5/16	5/16	

BANTAM PATTERN—3/8" Square Drive
REGULAR 12-POINT

3/8	B-1212		3/16		*10
7/16	B-1214		1/4	1/4	1/4
1/2	B-1216	1/4	5/16	5/16	
9/16	B-1218		3/8	3/8	5/16
5/8	B-1220		7/16	7/16	3/8
11/16	B-1222	3/8			
3/4	B-1224		1/2	1/2	7/16
13/16	BD-1226		9/16		1/2

UNIVERSAL 12-POINT

3/8	BU-1212		3/16		*10
7/16	BU-1214		1/4	1/4	*12 & 1/4
1/2	BU-1216	1/4	5/16	5/16	
9/16	BU-1218		3/8	3/8	5/16
5/8	BU-1220		7/16	7/16	3/8
11/16	BU-1222	3/8			
3/4	BU-1224		1/2	1/2	7/16

STANDARD PATTERN—1/2" Square Drive
REGULAR 12-POINT

3/8	ST-1212		3/16		
7/16	ST-1214		1/4	1/4	1/4
1/2	ST-1216	1/4	5/16	5/16	
9/16	SF-618		3/8	3/8	5/16
19/32	ST-1218		7/16	7/16	3/8
5/8	ST-1220		7/16	7/16	3/8
21/32	ST-1221				
11/16	ST-1222	3/8			
3/4	ST-1224		1/2	1/2	7/16
25/32	ST-1225	7/16			
13/16	ST-1226		9/16		1/2
7/8	ST-1228	1/2	5/8	9/16	1/2
15/16	ST-1230	9/16		5/8	
31/32	ST-1231				
1	ST-1232		3/4		5/8

EXTRA DEEP 12-POINT

11/16	SD-1222	3/8			
13/16	SD-1226		9/16		1/2
7/8	SD-1228T				
1	SD-1232		3/4		5/8

DRAG LINK SOCKET BITS

15/16	SB-30	Size Blade—7/64 x 15/16"
1-1/4	SB-40	Size Blade—3/32 x 1-1/4"

* Machine Screw Nut.
† Extra Deep Socket.

"SUPERSOCKETS"

Nominal Opening	No.	U.S. Std. Nut	Hex Cap Screw	S.A.E. Std. Nut	Amer. Std. Regl. Nut
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HEAVY DUTY PATTERN—3/4" Square Drive
REGULAR 12-POINT

1-1/16	H-1234	5/8		3/4	
1-1/8	H-1236		7/8		3/4
1-1/4	H-1240	3/4		7/8	
1-5/16	H-1242		1		7/8
1-7/16	H-1246	7/8		1	
1-1/2	H-1248		1-1/8		1
1-5/8	H-1252	1		1-1/8	

SOCKET ATTACHMENTS, WRENCHES, Etc.

No.	Piece
-----	-------

MIDGET PATTERN—1/4" Square Drive

NM-20A	Sliding T Handle—4-1/2" long.
NM-51	REVERSIBLE Ratchet, 4-1/2" long
NM-106	Extension Driver—6" long.
NMP-1	Phillips Screw Driver Attachment.
NMP-2	Phillips Screw Driver Attachment.

BANTAM PATTERN—3/8" Square Drive

B-15	Speeder—16-1/2" long, revol. Grip.
B-20A	Sliding T Handle—6-1/2" long.
B-40	Flex Handle—8" long; flexible head.
B-51	REVERSIBLE Ratchet, 6-1/2" long
B-108	Extension Bar—3" long.
B-110	Extension Bar—5-3/4" long.
B-115	Extension Bar—10-1/2" long.
B-140	Universal Joint.
BP-2	Phillips Screw Driver Attachment.
BP-3	Phillips Screw Driver Attachment.
BP-4	Phillips Screw Driver Attachment.
BS-130	Adapter 3/8" sq. female; 1/2" sq. male

STANDARD PATTERN—1/2" Square Drive

S-10	Speeder—12" long, revolving Grips.
S-15	Speeder—17-1/2" long, rev. Grips.
S-20A	Sliding T Handle—11" long.
S-41	Flex Handle—17" flexible head.
S-52	REVERSIBLE Ratchet, 11-1/4" long
S-55	REVERSIBLE Ratchet Adapter
S-110P	Extension Bar—5-1/2" long.
S-115P	Extension Bar—10-1/2" long.
S-121P	Extension Bar—20" long.
S-140	Universal Joint.
SH-130	Adapter 1/2" sq. female; 3/4" sq. male

HEAVY DUTY PATTERN—3/4" Square Drive

H-20A	Sliding T Handle—17-1/2" long.
H-41	Flex Handle—20" long; flexible head.
H-51	REVERSIBLE Ratchet—19" long.
H-104	Extension Bar—4" long.
H-110	Extension Bar—8" long.
H-115	Extension Bar—15-1/2" long.
H-140	Universal Joint.

LONG THIN "SUPERWRENCHES"

1090D	Openings 1/2" & 9/16"—8" long
1090D	
1092F	Openings 5/8" & 11/16"—8" long
1092F	
1094	Openings 3/4" & 7/8"—9" long
1094	

SOCKET ATTACHMENTS, WRENCHES, Etc.

No.	Piece
-----	-------

MIDGET "SUPERWRENCHES"

1106	Openings 13/64" & 7/32"
1107	" 15/64" & 1/4"
1108	" 9/32" & 11/32"
1108A	" 1/4" & 5/16"
1109	" 5/16" & 3/8"

OPEN END-BOX "SUPERWRENCHES"

1159	Openings 5/16" & 5/16"—5-1/2" long
1160	" 3/8" & 3/8"—6" long
1161	" 7/16" & 7/16"—6-5/8" long
1162	" 1/2" & 1/2"—7-3/16" lg.
1163	" 9/16" & 9/16"—7-15/16" lg.
1164	" 5/8" & 5/8"—8-3/4" long
1166	" 3/4" & 3/4"—10-5/8" long
1167	" 7/8" & 7/8"—12-11/16" lg.
1168	" 15/16" & 15/16"—13-7/8" lg.
1170	" 1" & 1"—15-1/8" lg.

ADJUSTABLE HOOK SPANNERS

1471	Capacity for Circles, 3/4 to 2"
1472	" " " 1-1/4 to 3"
1474	" " " 2 to 4-3/4"

"SUPERJUSTABLES"

6"	Capacity—3/4"
12"	Capacity—1-5/16"

SPECIAL "SUPERBENCH"

1998B	For Star Nut, etc.—Bendix Hydraulic
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"SUPERPLIERS," ETC.

76	Needle Nose Side Cutting Pliers—6"
1517	Pliers, 13"; for brake-shoe springs.
1519	Midget, 4-1/2"; 4-position slip-joint.
1520	Standard, 9-1/2"; 8-position slip-joint.

REGULAR SCREW DRIVERS

4	Square Blade—length 4"
6	Square Blade—length 6"
8	Square Blade—length 8"
12	Square Blade—length 12"
43	Round Blade—length 3"
46	Round Blade—length 6"
50	Round Blade—length 10"
62	Regular Stubby—blade length, 1-1/2"

PHILLIPS SCREW DRIVERS

WP-1	Fits Screws No. 4 and smaller.
WP-2	Fits Screws No. 5 to 9 inclusive.
WP-3	Fits Screws No. 10 to 16 inclusive.
WP-4	Fits Screws No. 18 and larger.
WP-62	Stubby, Fits Screws No. 5 to 9 incl.

PUNCHES

P-4	Pin Punch—6" long—1/8" point
P-6	Pin Punch—6" long—3/16" point
P-8	Pin Punch—8" long—1/4" point
P-13	Solid Punch—6" long—3/32" point
P-14	Solid Punch—8" long—1/8" point
P-25	Long Taper Punch—9"; 5/32" point.
P-26	Long Taper Punch—10"; 3/16" point.
P-30	Prick Punch—5" long.
P-40	Center Punch—5" long.

CHISELS

C-8	Width of Cut—1/4"—4-3/4" long
C-12	" " " 3/8"—5-1/2" long
C-16	" " " 1/2"—6" long
C-20	" " " 5/8"—6-1/2" long
C-24	" " " 3/4"—7" long

WILLIAMS' MOBILE TOOL CABINET

This entire Mobile Tool Cabinet is made of heavy gauge steel. Corners and ends are heavily reinforced to insure a long serviceable life.

Cabinet is easily moved on four 3" ball-bearing rubber-tired casters, two of which are equipped with side brakes that lock in non-rolling position.

Steel front for bottom compartment is fitted with a cylinder lock which, when locked in closed position, automatically locks the three drawers above.

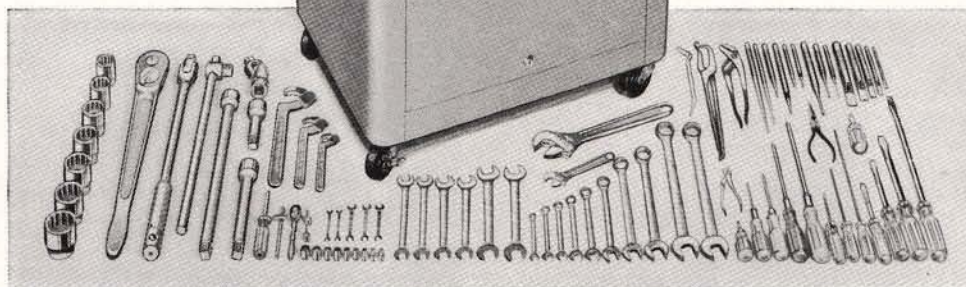


Top will accommodate Nos. 1001 or 2001 "Superchests" listed on Pages 13 and 14.

Removable tempered Masonite top allows a choice of working surface. Finished in Williams orange enamel, all hardware in bright chrome.

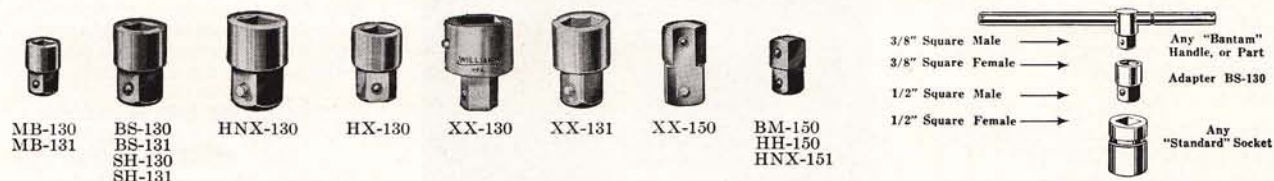
An individual heavy brass name plate, on which the owner's name will be engraved free of charge, is furnished with each cabinet.

Overall size—17" deep x 25" wide x 32" high. Two drawers measure 3 x 17 x 19-1/2", one 4-5/8 x 17 x 19-1/2". Bottom compartment dimensions are 13 x 17 x 25".



No.	Description
TC-100	Mobile Tool Cabinet only
TC-200	Mobile Tool Cabinet with No. 1001 Tool Assortment without "Superchest" (See Page 13 for contents)
TC-300	Mobile Tool Cabinet with No. 2001 Tool Assortment without "Superchest" (See Page 14 for contents)
TC-400	Mobile Tool Cabinet with No. 1001 Tool Assortment complete with "Superchest" (See Page 13 for contents)
TC-500	Mobile Tool Cabinet with No. 2001 Tool Assortment complete with "Superchest" (See Page 14 for contents)

ADAPTERS FOR "SUPERSOCKET" HANDLES AND PARTS



Williams Adapters provide for the use of Sockets of one pattern with Handles and Parts of another pattern.

No.	ADAPTER	Pkgd. Quan.	No.
BM-150	3/8" Square male and 1/4" square male—Adapts Sockets with 3/8" square drive to MR-51 Refrigeration Ratchet.	6	BM-150
MB-130	1/4" Square female and 3/8" square male—Adapts Parts with 1/4" square drive to Sockets with 3/8" square drive	6	MB-130
MB-131	1/4" Square male and 3/8" square female—Adapts Sockets with 1/4" square drive to Parts with 3/8" square drive	6	MB-131
BS-130	1/2" Square male and 3/8" square female—Adapts Parts with 3/8" square drive to Sockets with 1/2" square drive	3	BS-130
BS-131	3/8" Square male and 1/2" square female—Adapts Sockets with 3/8" square drive to Parts with 1/2" square drive	3	BS-131
SH-130	3/4" Square male and 1/2" square female—Adapts Parts with 1/2" square drive to Sockets with 3/4" square drive	3	SH-130
SH-131	1" Square female and 1/2" square male—Adapts Parts with 3/4" square drive to Sockets with 1/2" square drive	3	SH-131
HX-130	1" Hex male and 3/4" square female—Adapts Parts with 3/4" square drive to Sockets with 1" hex drive	3	HX-130
HNX-130	1" Square male and 3/4" square female—Adapts Parts with 3/4" square drive to Sockets with 1" square drive	3	HNX-130
XX-130	1" Hex male and 1" square female—Adapts Sockets with 1" hex drive to Parts with 1" square drive	3	XX-130
XX-131	1" Hex female and 1" square male—Adapts Sockets with 1" square drive to Parts with 1" hex drive	3	XX-131
HH-150	5/8" Square male and 3/4" square male—Adapts Sockets with 5/8" square drive to Ratchets with 3/4" square drive	3	HH-150
HNX-151	1" Square male and 3/4" square male—Adapts Sockets with 1" square drive to Ratchets with 3/4" square drive	3	HNX-151
XX-150	1" Square male and 1" hex male—Adapts Sockets with 1" square drive to Ratchets with 1" hex drive	3	XX-150

♦ REGISTERED TRADE MARK

WILLIAMS' ♦ "SUPERSOCKET" WRENCHES

Selected Alloy Steel
FOR HOLLOW SCREWS



SET No. AL-102
Complete in Metal Case

13 Pieces — 10 Sockets and 3 Attachments
Total Weight, 4-1/8 lbs.

2 Color Steel Case Only
1-1/2 x 3 x 12-1/2" — Weight, 1-1/2 lbs.

Replacing old type L-shape wrenches, bent from hex bar steel, these tools provide all the advantages of the Detachable Socket Wrench system for users of Hollow-Screws.

Only Williams Bits have knurled end for fast spinning of screws before tightening.

Can be interchanged with 1/4, 3/8 and 1/2" square drives.

No.	HANDLES and PARTS	Pkg. Qty.
NM-51	Reversible "Superratchet"—1/4" Sq. Drive, 4-1/2" long	6
B-20A	Sliding T Handle—3/8" Square Drive, 6-1/2" long	6
S-40	Flex Handle—1/2" Sq. Drive, 12" long, flexible head	6

"SUPERSOCKET" BITS—Sold in SET No. AL-102 or Individually

Bit No.	Hex. Plug, Size	Square Drive	Packaged Quantity	For Hollow Screws	
				Set Screw	Cap Screw
NAM-604	1/8	1/4	6	1/4	No. 8
NAM-605	5/32	1/4	6	5/16	10 & 12
NAM-606	3/16	1/4	6	3/8	1/4
NAM-607	7/32	1/4	6	7/16	5/16
AB-608	1/4	3/8	6	1/2 & 9/16	.....
AB-610	5/16	3/8	6	5/8	3/8 & 7/16
AS-612	3/8	1/2	6	3/4	1/2 & 9/16
AS-616	1/2	1/2	6	7/8	5/8
AS-618	9/16	1/2	6	1 & 1 1/8	3/4 & 7/8
AS-620	5/8	1/2	6	1 1/4 & 1 3/8	1

WILLIAMS' TORQUE ♦ "MEASURRENCH"

No. S-57

REVERSIBLE RATCHET
WITH R. H. TORQUE INDICATING SIGNAL
Standard Pattern—1/2" Square Drive



May be used in two ways:—

By Sight Reading—Easily read scale on handle indicates applied tightening pressures from 20 to 200 foot-pounds.

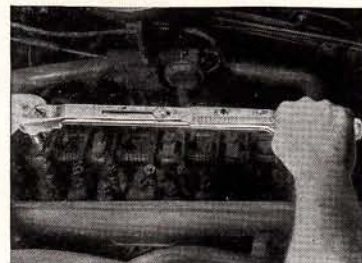
By Sound Reading—A sharp sound signal is given for any desired torque from 35 to 200 foot-pounds, by setting the simple sound device.

Accuracy does not depend on delicate gears, levers, or dials, but upon rugged sections of high tensile steel. Right hand torque only is measured, but the action reverses instantly for left hand turning by a mere flip of the shifter.

Simple in design and sturdy in construction, the reversible ratchet mechanism is a very desirable feature. The 36-tooth ratchet wheel, with Williams twin double-tooth, oscillating pawl provides constant engagement with TWO teeth of ratchet-gear in both ON and OFF rotation of nuts. It makes possible an operating swing of only 1/30 of a full turn.

The well balanced drop-forged handle is 19-1/2" long for ample leverage; the head is exceptionally compact and free from protrusions, for easy use in close places.

Every part is made of selected alloy and high tensile steel, accurately machined and heat-treated. Chrome-plated, with entire top and sides of head and calibrated bar buffed; handle, "satin" chrome. Packed in individual metal case.



Operating instructions are supplied with each wrench along with a chart giving the foot-pounds tension to be applied on cylinder heads, connecting rods, main bearings, etc. This data covers all popular cars and trucks as recommended by their manufacturers.

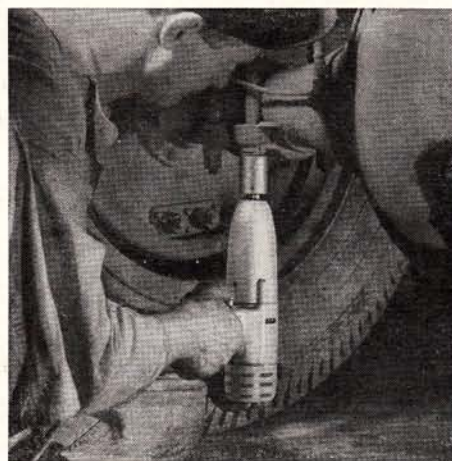
WILLIAMS' IMPACT ♦ "SUPERSOCKETS"

FOR USE WITH ALL TYPES
OF POWER WRENCHES
AND NUT RUNNERS

Williams Impact "Supersockets" are adaptable to all socket locking methods used on the various makes of power wrenches, both of the impact and nut running types. Accurate fit assures long life, safe and dependable service.

MADE OF
EXTRA-TOUGH ALLOY STEEL
SPECIALLY HEAT-TREATED

They withstand the constant shock and pounding involved in electric and pneumatic impact nut setting or power nut running. Performance in strength and toughness is far beyond that found in ordinary power sockets.



ALSO CAN BE USED WITH
WILLIAMS'
HAND SOCKET DRIVERS

Williams Impact "Supersockets" will fit and can be used on Williams Hand Socket Drivers where corresponding drive sizes are available. This use is recommended for applications where sockets of extra strength and toughness are indicated.

7 SQUARE DRIVE SIZES
OVER 500 SOCKETS
AND ACCESSORIES

Impact "Supersockets" are available with hex openings from 3/16 to 2-3/4" and 8-point openings from 5/16 to 1-1/4". A wide selection is offered in standard and bolt clearance lengths for all types of power wrench work.

NOTE:—Catalog specifications and illustrations embody the latest design improvements incorporated in the Impact "Supersocket" line. Flat band grooves have been eliminated or replaced by either straight walls or "V" groove recesses. Present stocks will be shipped until new designs are available.

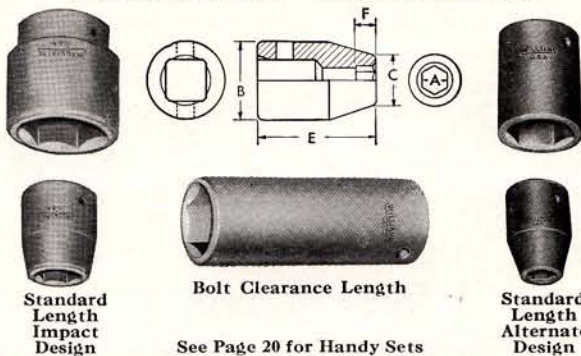
For socket types available in 1/4", 3/8" and 1-1/2" square drive sizes and for socket openings 2" and larger in the "7" Series (1" square drive) refer to Catalog A-100.

♦ REGISTERED TRADE MARK

WILLIAMS' IMPACT "SUPERSOCKETS"

"4" SERIES—1/2" SQUARE DRIVE

(Male Square .501-.503 Female Square .504-.506)



See Page 20 for Handy Sets

Nominal Opening	No.	Amer. Std. Hex Head Tapping Screw	Amer. Std. Heavy Nut (USS) Size Bolt	Amer. Std. Hex Head Cap Screw Diam. Screw.	Amer. Std. Light Nut (SAE) Size Bolt	Amer. Std. Regular Nut; Size Bolt	Maximums Dimension		Nominal Dimensions	
							Dia. Drive End B	Dia. Nose C	Lgth. Over- all E	Depth Open- ing F
A										

STD. LENGTH—IMPACT DESIGN—SINGLE HEX. OPENINGS

Finish—Rust Resistant

3/8	4-612		3/16	1/4	1/4 & 1/2	1.003	.628	1-1/2	1/8
7/16	4-614		1/4	5/16	5/8	1.003	.706	1-1/2	7/32
1/2	4-616	1/4	5/16	3/8	5/16	1.065	.784	1-1/2	7/32
9/16	4-618		3/8	7/16	3/8	1.065	.879	1-1/2	17/64
19/32	4-619	5/16	7/16	7/16	3/8	1.128	.956	1-1/2	21/64
5/8	4-620		7/16	7/16	3/8	1.128	1.034	1-1/2	21/64
11/16	4-622	3/8	1/2	1/2	7/16	1.128	1.128	1-1/2	3/8
3/4	4-624		1/2	1/2	7/16	1.128	1.143	1-1/2	3/8
25/32	4-625	7/16	9/16	9/16	1/2	1.128	1.190	1-1/2	7/16
13/16	4-626		9/16	9/16	1/2	1.128	1.315	1-5/8	1/2
7/8	4-628	1/2	5/8	5/8	9/16	1.315	1.378	1-3/4	1/2
15/16	4-630		5/8	5/8	9/16	1.315	1.440	1-3/4	35/64
1	4-632	3/4	3/4	3/4	5/8	1.315	1.518	2	35/64
1 1/16	4-634		3/4	3/4	5/8	1.315	1.612	2	21/32
1 1/8	4-636	7/8	7/8	7/8		1.315	1.690	2	21/32
1 3/16	4-638		7/8	7/8		1.315	1.768	2	21/32
1 1/4	4-640	3/4	7/8	7/8		1.315	1.768	2	21/32

STD. LENGTH—ALTERNATE DESIGN—SINGLE HEX. OPENS.

Finish—Rust Resistant

3/8	A4-612		3/16	1/4	1/4 & 1/2	.878	.608	1-1/2	1/8
7/16	A4-614		1/4	5/16	5/8	.878	.691	1-1/2	7/32
1/2	A4-616	1/4	5/16	3/8	5/16	.940	.776	1-1/2	7/32
9/16	A4-618		3/8	7/16	3/8	.940	.857	1-1/2	17/64
19/32	A4-619	5/16	7/16	7/16	3/8	.999	.899	1-1/2	17/64
5/8	A4-620		7/16	7/16	3/8	.944	.944	1-1/2	21/64
11/16	A4-622	3/8	1/2	1/2	7/16	1.025	1.025	1-1/2	21/64
3/4	A4-624		1/2	1/2	7/16	1.108	1.108	1-1/2	3/8
13/16	A4-626	7/16	9/16	9/16	1/2	1.190	1.190	1-1/2	7/16
7/8	A4-628	1/2	5/8	5/8	9/16	1.271	1.271	1-1/2	1/2
15/16	A4-630		5/8	5/8	9/16	1.357	1.357	1-3/4	1/2
1	A4-632	3/4	3/4	3/4	5/8	1.440	1.440	1-3/4	35/64
1 1/16	A4-634	5/8	3/4	3/4	5/8	1.525	1.525	2	35/64

STD. LENGTH—DOUBLE SQ. (8 Pt.) OPENINGS FOR SQ. NUTS

Finish—Rust Resistant

3/8	4-812		3/16	1/4	1/4 & 1/2	.878	.715	1-1/2	1/8
7/16	4-814		1/4	5/16	5/8	.878	.817	1-1/2	7/32
1/2	4-816	1/4	5/16	3/8	5/16	1.003	.916	1-1/2	7/32
9/16	4-818		3/8	7/16	3/8	1.128	1.014	1-1/2	17/64
5/8	4-820		7/16	7/16	3/8	1.128	1.108	1-1/2	21/64
3/4	4-824	3/8	1/2	1/2	7/16	1.315	1.315	1-1/2	3/8
13/16	4-826		1/2	1/2	7/16	1.407	1.407	1-1/2	7/16
7/8	4-828	1/2	5/8	5/8	9/16	1.516	1.516	1-1/2	1/2
15/16	4-830		5/8	5/8	9/16	1.612	1.612	1-3/4	1/2
1	4-832	3/4	3/4	3/4	5/8	1.719	1.719	1-3/4	35/64

BOLT CLEARANCE LENGTH—SINGLE HEXAGON OPENINGS

Finish—Rust Resistant

3/8	14-612		3/16	1/4	1/4 & 1/2	.878	.608	3-1/4	1/8
7/16	14-614		1/4	5/16	5/8	.878	.691	3-1/4	7/32
1/2	14-616	1/4	5/16	3/8	5/16	.940	.776	3-1/4	7/32
9/16	14-618		3/8	7/16	3/8	.940	.857	3-1/4	17/64
5/8	14-620		7/16	7/16	3/8	.940	.940	3-1/4	21/64
11/16	14-622	3/8	1/2	1/2	7/16	1.025	1.025	3-1/4	21/64
3/4	14-624		1/2	1/2	7/16	1.108	1.108	3-1/4	3/8
13/16	14-626	7/16	9/16	9/16	1/2	1.190	1.190	3-1/4	7/16
7/8	14-628	1/2	5/8	5/8	9/16	1.276	1.276	3-1/4	1/2
15/16	14-630		5/8	5/8	9/16	1.357	1.357	3-1/4	1/2
1	14-632	3/4	3/4	3/4	5/8	1.440	1.440	3-1/2	35/64

"4" SERIES EXTENSIONS

No. Male Sq. has thru pin hole	No. Male Square has spring and plunger	Lgth.	Square Male	Square Female
4-105	4-105A	5	1/2	1/2
4-110	4-110A	10	1/2	1/2

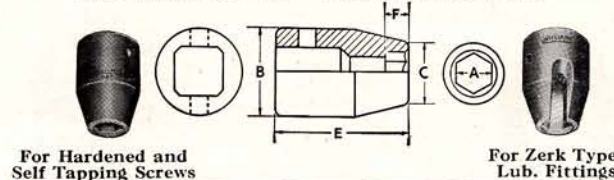
† Amer. Std. Machine-Screw and Stove-Bolt Nuts.

★ REGISTERED TRADE MARK

WILLIAMS' IMPACT "SUPERSOCKETS"

"4" SERIES—1/2" SQUARE DRIVE

(Male Square .501-.503 Female Square .504-.506)



Nominal Opening	No.	Amer. Std. Hex Head Tapping Screw	For Hex Nuts and Cap Screws				Maximum Dimension		Nominal Dimensions	
			Amer. Std. Heavy Nut (USS) Size Bolt	Amer. Std. Hex Head Cap Screw Diam. Screw	Amer. Std. Light Cap Nut (SAE) Size Bolt	Amer. Std. Regular Nut; Size Bolt	Dia. Drive End	Dia. Nose	Lgth. Over- all	Depth Open- ing
A							B	C	E	F

STANDARD LENGTH—SINGLE HEXAGON OPENINGS

FOR HARDENED AND SELF TAPPING SCREWS

Finish—Copper colored for positive identification

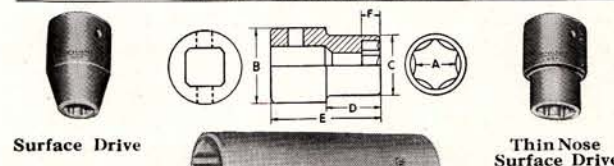
3/8	24-612	1/4 & 1/4	.878	.628	1-1/2	3/16
7/16	24-614		.878	.691	1-1/2	15/64
1/2	24-616	5/16	.940	.753	1-1/2	15/64
9/16	24-618	3/8	1.003	.878	1-1/2	19/64

STANDARD LENGTH—SINGLE HEXAGON OPENINGS

FOR ZERK TYPE LUBRICATION FITTINGS

Finish—Copper colored for positive identification

3/8	24-612B	Fits GMC Type C Fitting— No. 110309 Elbow 45° No. 191350 Elbow 85-90° No. 109350 Elbow 67-1/2° No. 109353 Elbow 30°	.878	.628	1-1/2	3/16
7/16	24-614B	No. 109354 Elbow 85-90° No. 145435 Spec. Taper Dr. 67-1/2° No. 145436 Spec. Taper Dr. 85-90° No. 119512 Straight Fitting	.878	.691	1-1/2	15/64
7/16	24-614	No. 145433 Spec. Taper Dr. Straight	.878	.691	1-1/2	15/64



Bolt Clearance Length—Surface Drive

Nominal Opening	No.	For Hex Nuts and Cap Screws				Maximum Dimensions			Nominal Dimensions	
		Amer. Std. Heavy Nut (USS) Size Bolt	Amer. Std. Hex Head Cap Screw Diam. Screw	Amer. Std. Light Nut (SAE) Size Bolt	Amer. Std. Regular Nut; Size Bolt	Dia. Drive End	Dia. Nose	Nose Lgth.	Lgth. Over- all	Depth Open- ing
A						B	C	D	E	F

STD. LENGTH—SURFACE DR. SINGLE HEXAGON OPENINGS

Finish—Rust Resistant

7/16	A4-614A	1/4	5/16	1/4 & 1/2	.878	.691	1-1/2	7/32
1/2	A4-616A	1/4	5/16	3/8	.940	.776	1-1/2	7/32
9/16	A4-618A		3/8	7/16	.940	.857	1-1/2	17/64
5/8	A4-620A		7/16	7/16	.944	.944	1-1/2	21/64
11/16	A4-622A	3/8	1/2	1/2	1.025	1.025	1-1/2	21/64
3/4	A4-624A		1/2	1/2	1.108	1.108	1-1/2	3/8
13/16	A4-626A	7/16	9/16	9/16	1.190	1.190	1-1/2	7/16
7/8	A4-628A	1/2	5/8	5/8	1.271	1.271	1-1/2	1/2

STD. LGTH.—THIN NOSE SURFACE DR. SINGLE HEX. OPENING

Finish—Rust Resistant

7/16	34-614A	1/4	5/16	1/4 & 1/2	.878	.671	13/16	1-1/2	7/32
1/2	34-616A	1/4	5/16	3/8	.940	.753	49/64	1-1/2	7/32
9/16	34-618A		3/8	7/16	.940	.831	47/64	1-1/2	17/64

BOLT CLEARANCE LENGTH—SURFACE DRIVE

SINGLE HEXAGON OPENINGS

Finish—Rust Resistant

7/16	A14-614A	1/4	5/16	1/4 & 1/2	.878	.691	3-1/4	7/32
1/2	A14-616A	1/4	5/16	3/8	.940	.776	3-1/4	7/32
9/16	A14-618A		3/8	7/16	.940	.857	3-1/4	17/64
5/8	A14-620A		7/16	7/16	.940	.940	3-1/4	21/64
3/4	A14-624A	1/2	1/2	7/16	1.108	1.108	3-1/4	3/8
13/16	A14-626A	9/16	9/16	9/16	1.190	1.190	3-1/4	7/16

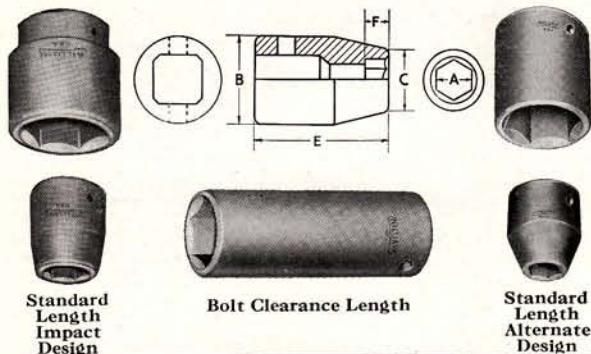
"4" SERIES HEXAGON—SQUARE SHANKS

No. Male Square has thru pin hole	No. Male Square has spring and plunger	Lgth.	Square Male	Hex Male
4-33	4-33A	2 3/4	1/2	7/16
4-35	4-35A	5	1/2	7/16
4-53	4-53A	3	1/2	5/8
4-55	4-55A	5	1/2	5/8

WILLIAMS' IMPACT ♦ "SUPERSOCKETS"

"5" SERIES—5/8" SQUARE DRIVE

(Male Square .626-.628 Female Square .628-.631)



Nominal Opening	No.	Amer. Std. Heavy Nut (USS) Size Bolt	Amer. Std. Hx. Hd. Cap Screw Diam. Screw	Amer. Std. Light Nut (SAE) Size Bolt	Amer. Std. Regular Nut; Size Bolt	Maximum Dimensions	Nominal Dimensions
A						Diam. Drive End B Diam. Nose C	Lgth. Overall E Depth Opening F

STANDARD LENGTH—IMPACT DESIGN
SINGLE HEXAGON OPENINGS

Finish—Rust Resistant

1/2	5-616	1/4	5/16	5/16	5/16	1.315	.880	1-1/2	7/32
9/16	5-618		3/8	3/8	3/8	1.315	.940	1-1/2	17/64
5/8	5-620		7/16	7/16	3/8	1.315	1.019	1-1/2	21/64
11/16	5-622	3/8				1.315	1.101	1-1/2	21/64
3/4	5-624		1/2	1/2	7/16	1.315	1.183	1-1/2	3/8
25/32	5-625	7/16				1.315	1.237	1-1/2	3/8
13/16	5-626		9/16	9/16	1/2	1.315	1.265	1-1/2	7/16
7/8	5-628	1/2	5/8	5/8	9/16	1.315	1.378	1-5/8	1/2
15/16	5-630					1.315	1.440	1-3/4	1/2
1	5-632		3/4	3/4	5/8	1.503	1.503	1-3/4	35/64
1 1/16	5-634	5/8				1.503	1.628	2	35/64
1 1/8	5-636		7/8	7/8	3/4	1.503	1.690	2	21/32
1 1/4	5-640	3/4				1.503	1.815	2	21/32
1 5/16	5-642		1	1	7/8	1.503	1.940	2-1/8	49/64
1 3/8	5-644					1.503	2.003	2-1/8	49/64
1 7/16	5-646	7/8				1.503	2.065	2-1/4	49/64
1 1/2	5-648		1-1/8	1-1/8	1	1.503	2.159	2-3/8	7/8

STANDARD LENGTH—ALTERNATE DESIGN
SINGLE HEXAGON OPENINGS

Finish—Rust Resistant

9/16	A5-618		3/8	3/8	5/16	1.190	.851	1-1/2	17/64
5/8	A5-619	5/16				1.190	.899	1-1/2	17/64
19/32	A5-620		7/16	7/16	3/8	1.190	.940	1-1/2	21/64
11/16	A5-622	3/8				1.190	1.018	1-1/2	21/64
3/4	A5-624		1/2	1/2	7/16	1.190	1.018	1-1/2	3/8
13/16	A5-626		9/16	9/16	1/2	1.190	1.101	1-1/2	7/16
7/8	A5-628	1/2	5/8	5/8	9/16	1.271	1.271	1-1/2	1/2
15/16	A5-630					1.357	1.357	1-3/4	1/2
1	A5-632		3/4	3/4		1.440	1.440	1-3/4	35/64
1 1/16	A5-634	5/8				1.525	1.525	2	35/64
1 1/8	A5-636		7/8	7/8		1.608	1.608	2	21/32
1 1/4	A5-640	3/4				1.777	1.777	2	21/32

STANDARD LENGTH—DOUBLE SQUARE (8 PT.)
OPENINGS FOR SQUARE NUTS

Finish—Rust Resistant

9/16	5-818		3/8	5/16	1.190	1.014	1-1/2	17/64
5/8	5-820		7/16	3/8	1.190	1.128	1-1/2	21/64
11/16	5-822	3/8			1.253	1.253	1-1/2	21/64
3/4	5-824		1/2	7/16	1.315	1.315	1-1/2	3/8
13/16	5-826			1/2	1.407	1.407	1-1/2	7/16
7/8	5-828	1/2	9/16	9/16	1.516	1.516	1-1/2	1/2
15/16	5-830		5/8		1.614	1.614	1-3/4	1/2
1	5-832			5/8	1.719	1.719	1-3/4	35/64
1 1/16	5-834	5/8			1.836	1.836	2	35/64
1 1/8	5-836		3/4		1.933	1.933	2	21/32

BOLT CLEARANCE LENGTH—SINGLE HEXAGON OPENINGS

Finish—Rust Resistant

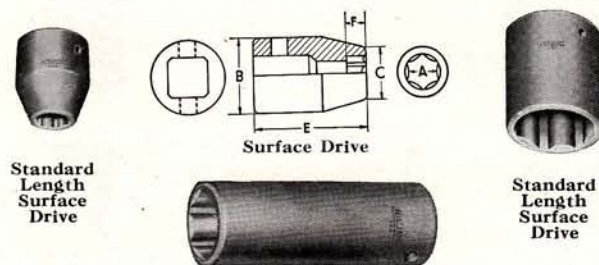
9/16	15-618		3/8	5/16	1.190	.851	3-1/4	17/64
5/8	15-620		7/16	3/8	1.190	.940	3-1/4	21/64
11/16	15-622	3/8			1.190	1.018	3-1/4	21/64
3/4	15-624		1/2	7/16	1.190	1.108	3-1/4	3/8
13/16	15-626		9/16	1/2	1.190	1.190	3-1/4	7/16
7/8	15-628	1/2	5/8	9/16	1.276	1.276	3-1/2	1/2
15/16	15-630		5/8		1.357	1.357	3-1/2	1/2
1	16-632		3/4	5/8	1.440	1.440	3-1/2	35/64
1 1/16	15-634	5/8			1.525	1.525	3-1/2	35/64

♦ REGISTERED TRADE MARK

WILLIAMS' IMPACT ♦ "SUPERSOCKETS"

"5" SERIES—5/8" SQUARE DRIVE

(Male Square .626-.628 Female Square .628-.631)



Bolt Clearance Length—Surface Drive

Nominal Opening	No.	Amer. Std. Heavy Nut (USS) Size Bolt	Amer. Std. Hx. Hd. Cap Screw Diam. Screw	Amer. Std. Light Nut (SAE) Size Bolt	Amer. Std. Regular Nut; Size Bolt	Maximum Dimensions	Nominal Dimensions
A						Diam. Drive End B Diam. Nose C	Lgth. Overall E Depth Opening F

STANDARD LENGTH—SURFACE DRIVE
SINGLE HEXAGON OPENINGS

Finish—Rust Resistant

5/8	A5-620A		7/16	7/16	3/8	1.190	.940	1-1/2	21/64
11/16	A5-622A	3/8				1.190	1.018	1-1/2	21/64
3/4	A5-624A		1/2	1/2	7/16	1.190	1.108	1-1/2	3/8
13/16	A5-626A		9/16	1/2		1.190	1.190	1-1/2	7/16
7/8	A5-628A	1/2	5/8	9/16	9/16	1.271	1.271	1-1/2	1/2
15/16	A5-630A			5/8		1.357	1.357	2	1/2
1	A5-632A		3/4			1.440	1.440	2	35/64
1 1/16	A5-634A	5/8		3/4		1.525	1.525	2	35/64
1 1/8	A5-636A		7/8		3/4	1.608	1.608	2	21/32
1 1/4	A5-640A	3/4		7/8		1.777	1.777	2	21/32

BOLT CLEARANCE LENGTH—SURFACE DRIVE
SINGLE HEXAGON OPENINGS

Finish—Rust Resistant

5/8	A15-620A		7/16	7/16	3/8	1.190	.940	3-1/4	21/64
11/16	A15-622A	3/8				1.190	1.018	3-1/4	21/64
3/4	A15-624A		1/2	1/2		1.190	1.108	3-1/2	3/8
13/16	A15-626A		9/16	1/2		1.190	1.190	3-1/2	7/16
7/8	A15-628A	1/2	5/8	9/16	9/16	1.276	1.276	3-1/2	1/2
1	A15-632A		3/4		5/8	1.440	1.440	3-1/2	35/64

"5" SERIES ACCESSORIES

EXTENSIONS



Male squares have thru pin hole Male squares have imprisoned spring and plunger

No.	Lgth.	Square Male	Square Female	No.	Lgth.	Square Male	Square Female
5-106	6	5/8	5/8	5-106A	6	5/8	5/8
5-110	10	5/8	5/8	5-110A	10	5/8	5/8

HEXAGON—SQUARE SHANKS



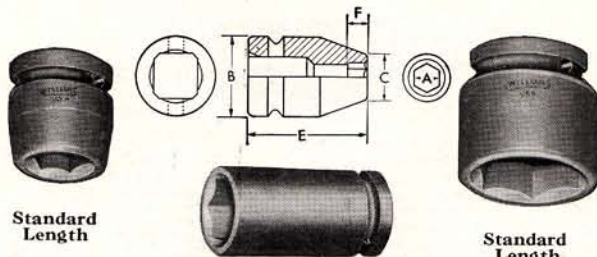
Male squares have thru pin hole Male squares have imprisoned spring and plunger

No.	Lgth.	Square Male	Hex Male	No.	Lgth.	Square Male	Hex Male
5-53	3	5/8	5/8	5-53A	3	5/8	5/8
5-55	5	5/8	5/8	5-55A	5	5/8	5/8
5-63	3	5/8	3/4	5-63A	3	5/8	3/4

WILLIAMS' IMPACT "SUPERSOCKETS"

"6" SERIES—3/4" SQUARE DRIVE

(Male Square .757-.759 Female Square .759-.764)



Bolt Clearance Length

Nominal Opening	No.	Amer. Std. Heavy Nut (USS) Size Bolt	Amer. Std. Hx. Hd. Cap Screw	Amer. Std. Light Nut (SAE) Size Bolt	Amer. Std. Regular Nut; Size Bolt	Maximum Dimensions	Nominal Dimensions
A						Diam. Drive End B	Lgth. Overall E Depth Opening F

STANDARD LENGTH—SINGLE HEXAGON OPENINGS

Finish—Rust Resistant

1/2	6-616	1/4	5/16	5/16	5/16	1.628	.940	1-3/4	7/32
9/16	6-618		3/8	3/8	5/16	1.628	1.003	1-3/4	17/64
19/32	6-619	5/16				1.628	1.065	1-3/4	17/64
5/8	6-620		7/16	7/16	3/8	1.628	1.096	1-3/4	21/64
11/16	6-622	3/8				1.628	1.159	1-3/4	21/64
3/4	6-624		1/2	1/2	7/16	1.628	1.253	1-3/4	3/8
25/32	6-625	7/16				1.628	1.284	1-3/4	3/8
13/16	6-626		9/16	9/16	1/2	1.628	1.378	1-7/8	7/16
7/8	6-628	1/2	5/8	5/8	9/16	1.628	1.503	1-7/8	1/2
15/16	6-630					1.628	1.565	1-7/8	1/2
1	6-632		3/4	3/4	5/8	1.628	1.628	2	35/64
1 1/16	6-634	5/8				1.628	1.690	2	35/64
1 1/8	6-636		7/8	7/8	3/4	1.628	1.753	2-1/8	21/32
1 3/16	6-638					1.628	1.878	2-1/8	21/32
1 1/4	6-640	3/4				1.753	2.003	2-1/8	21/32
1 5/16	6-642		1	1	7/8	1.753	2.065	2-1/4	49/64
1 3/8	6-644					1.753	2.128	2-1/4	49/64
1 7/16	6-646	7/8				1.753	2.253	2-1/4	49/64
* 1 1/2	6-648		1-1/8	1-1/8	1	1.753	2.315	2-3/8	7/8
1 5/8	6-652	1				1.878	2.440	2-3/8	7/8
1 11/16	6-654		1-1/4	1-1/4	1-1/8	1.878	2.503	2-3/8	1

STANDARD LENGTH—DOUBLE SQUARE (8 PT.)

OPENINGS FOR SQUARE NUTS

Finish—Rust Resistant

9/16	6-418		3/8	5/16	1.628	1.159	1-5/8	17/64
5/8	6-420		7/16	3/8	1.628	1.253	1-5/8	21/64
3/4	6-424		1/2	7/16	1.628	1.503	1-3/4	3/8
* 13/16	6-426			1/2	1.628	1.628	1-7/8	7/16
13/16	6-826			1/2	1.628	1.628	1-7/8	7/16
7/8	6-828	1/2	9/16	9/16	1.628	1.753	1-7/8	1/2
15/16	6-830		5/8		1.628	1.815	1-7/8	1/2
1	6-832			5/8	1.628	1.940	2	35/64
1 1/16	6-834	5/8	3/4		1.753	2.003	2	35/64
1 1/8	6-836			3/4	1.753	2.128	2-1/8	21/32
1 1/4	6-840	3/4	7/8		1.753	2.378	2-1/8	21/32

BOLT CLEARANCE LENGTH—SINGLE HEXAGON OPENINGS

Finish—Rust Resistant

9/16	16-618	.....	3/8	3/8	5/16	1.628	1.003	3-1/4	17/64
5/8	16-620		7/16	7/16	3/8	1.628	1.096	3-1/4	21/64
11/16	16-622	3/8				1.628	1.159	3-1/4	21/64
3/4	16-624		1/2	1/2	7/16	1.628	1.253	3-1/4	3/8
13/16	16-626		9/16		1/2	1.628	1.378	3-1/4	7/16
7/8	16-628	1/2	5/8	9/16	9/16	1.628	1.503	3-1/2	1/2
15/16	16-630			5/8		1.628	1.565	3-1/2	1/2
1	16-632		3/4		5/8	1.628	1.628	3-1/2	35/64
1 1/16	16-634	5/8		3/4		1.628	1.690	3-1/2	35/64
1 1/8	16-636		7/8		3/4	1.628	1.753	3-1/2	21/32
1 3/16	16-638					1.628	1.878	3-1/2	21/32
1 1/4	16-640	3/4		7/8		1.753	2.003	3-1/2	21/32
1 5/16	16-642		1		7/8	1.753	2.065	3-1/2	49/64
1 7/16	16-646	7/8		1		1.753	2.258	3-1/2	49/64
* 1 1/2	16-648		1-1/8		1	1.753	2.315	3-1/2	7/8
1 5/8	16-652	1		1-1/8		1.753	2.447	3-1/2	7/8

* Can be used for servicing Standard Budd Wheels.

† These Sockets have single square openings.

"6" SERIES ADAPTER



No.	Lgth.	Square Female	Square Male
6-7	2-5/8	3/4	1

For Retainer Pins and "O" Rings to fit above Sockets and Adapter, see listing on this page.

† REGISTERED TRADE MARK

"6" SERIES ACCESSORIES

EXTENSIONS



Male Squares furnished with through pin hole

No.	Lgth.	Square Male	Square Female
6-107	7	3/4	3/4
6-110	10	3/4	3/4
6-113	13	3/4	3/4

HEXAGON—SQUARE SHANKS



Male Squares furnished with through pin hole

No.	Lgth.	Square Male	Hex Male
6-63	3	3/4	3/4

For Retainer Pins and "O" Rings to fit above Extensions, see listing on this page.

WILLIAMS' IMPACT "SUPERSOCKETS" FOR SERVICING BUDD WHEELS



6-BW4 and 7-BW4



6-BW7 and 7-BW9

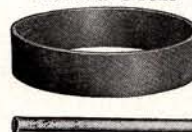
These sockets have been designed to service all popular Budd Wheels. The special combination opening employing a 1-1/2" Hexagon at the mouth and a 13/16" Square at the base eliminates the need for two separate sockets. Two lengths are available in both the 3/4" and 1" Square Drive Series.

No.	Length	"O" Type Ring	RETAINER PINS	
			Dimensions	
			Diameter	Length
"6" SERIES—3/4" SQUARE DRIVE				
6-BW4	4"	B1	3/16	1-7/8
6-BW7	7-1/2"	A1	3/16	1-1/2
"7" SERIES—1" SQUARE DRIVE				
7-BW4	4"	B1	3/16	1-7/8
7-BW9	9"	B1	3/16	1-7/8

NEOPRENE BANDS, RETAINER PINS AND "O" RINGS

For "4" thru "7" SERIES

Bands and Pins



Neoprene Bands and "O" Rings are specially designed for resistance to oil and grease.

"O" Rings



Retainer Pins are made of selected steel—oil finished.

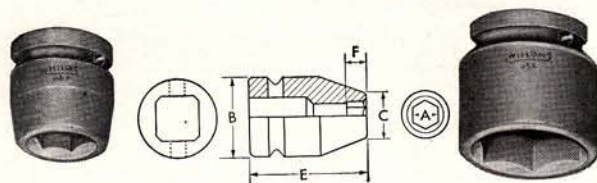
Neoprene Bands, Retainer Pins, and "O" Rings are packaged separately, 24 of each to a box.

Square Drive Size	Socket and Extension Nos.	NEOPRENE BANDS		RETAINER PINS		
		Type	Inside Diameter	Type	Dimensions	
1/2"	4-612 thru 4-628	A	7/8	A	3/16	7/8
	4-630 thru 4-640	B	1-1/8	B	3/16	1-1/8
	4-105 & 4-110	A	7/8	A	3/16	7/8
	4-105A & 4-110A	A	7/8	A	3/16	7/8
5/8"	5-616 thru 5-630	B	1-1/8	B	3/16	1-1/8
	5-632 thru 5-648	C	1-3/8	B	3/16	1-1/8
	5-106 & 5-110	B	1-1/8	B	3/16	1-1/8
	5-106A & 5-110A	B	1-1/8	B	3/16	1-1/8
3/4"	6-616 thru 6-638	C	1-3/8	B	3/16	1-1/8
	6-640 thru 6-654	D	1-5/8	C	3/16	1-1/2
	6-418 thru 6-426	C	1-3/8	B	3/16	1-1/8
	6-826 thru 6-832	C	1-3/8	B	3/16	1-1/8
	6-834 thru 6-840	D	1-5/8	C	3/16	1-1/2
	16-618 thru 16-638	C	1-3/8	B	3/16	1-1/8
	16-640 thru 16-652	D	1-5/8	C	3/16	1-1/2
	6-107, 6-110, 6-113	C	1-3/8	C	3/16	1-1/2
1"	7-624 thru 7-672	E	1-7/8	D	3/16	1-7/8
	7-106 & 7-112	E	1-7/8	D	3/16	1-7/8
	7-6	E	1-7/8	D	3/16	1-7/8
	17-638	E	1-7/8	D	3/16	1-7/8
Square Drive Size	Socket and Extension Nos.	"O" TYPE ELASTIC RINGS				
		Number		Inside Diameter		
3/4"	Fits all sizes	A1		1-7/16		
1"	Fits all sizes	B1		1-3/4		

WILLIAMS' IMPACT ♦ "SUPERSOCKETS"

"7" SERIES—1" SQUARE DRIVE

(Male Square 1.007-1.009 Female Square 1.009-1.014)



Nominal Opening A	No.	Amer. Std. Heavy Nut (USS) Size Bolt	Amer. Std. Hx. Hd. Cap Screw Diam. Screw	Amer. Std. Light Nut (SAE) Size Bolt	Amer. Std. Regular Nut; Size Bolt	Maximum Dimensions	Nominal Dimensions
						Diam. Drive End B	Diam. Over-all C
						Lgth. Over-all E	Depth Opening F

STANDARD LENGTH—SINGLE HEXAGON OPENINGS
Finish—Rust Resistant

3/4	7-624	1/2	1/2	7/16	2.003	1.440	2-1/16	3/8
25/32	7-625	7/16			2.003	1.440	2-1/16	3/8
13/16	7-626	9/16		1/2	2.003	1.503	2-1/16	7/16
7/8	7-628	1/2	5/8	9/16	2.003	1.534	2-1/16	1/2
15/16	7-630	9/16	5/8		2.003	1.596	2-1/16	1/2
1	7-632	3/4		5/8	2.003	1.753	2-1/16	35/64
1 1/16	7-634	5/8	3/4		2.003	1.753	2-1/16	35/64
1 1/8	7-636	7/8		3/4	2.003	1.815	2-3/16	21/32
1 3/16	7-638		7/8		2.128	1.878	2-7/16	21/32
1 1/4	7-640	3/4			2.128	2.003	2-7/16	21/32
1 5/16	7-642	1		7/8	2.128	2.065	2-3/16	49/64
1 3/8	7-644				2.128	2.128	2-5/16	49/64
1 7/16	7-646	7/8	1		2.253	2.253	2-5/16	49/64
1 1/2	7-648	1-1/8		1	2.253	2.315	2-5/16	7/8
1 9/16	7-650				2.253	2.378	2-5/8	7/8
1 5/8	7-652	1	1-1/8		2.253	2.440	2-7/16	7/8
1 11/16	7-654	1-1/4		1-1/8	2.253	2.565	2-7/16	1
1 3/4	7-656				2.253	2.628	2-11/16	1
1 13/16	7-658	1-1/8	1-1/4		2.253	2.753	2-9/16	1 3/32
1 7/8	7-660			1-1/4	2.253	2.753	2-9/16	1 3/32
1 15/16	7-662				2.253	2.878	2-7/8	1 3/32

STANDARD LENGTH—SQUARE (4 PT.) AND
DOUBLE SQUARE (8 PT.) OPENINGS FOR SQUARE NUTS
Finish—Rust Resistant

3/4	7-424	1/2	7/16	2.003	1.878	2-1/8	3/8
25/32	7-425	7/16		2.003	1.940	2-1/8	3/8
13/16	7-426		1/2	2.003	1.940	2-1/8	7/16
7/8	7-428	1/2	9/16	2.003	2.003	2-1/4	1/2
15/16	7-430		5/8	2.128	2.065	2-1/4	1/2
1	7-432		5/8	2.128	2.128	2-5/16	35/64
1 1/16	7-434	5/8	3/4	2.128	2.128	2-5/16	35/64
1 1/8	7-436		3/4	2.253	2.253	2-1/2	21/32
1 3/16	7-438			2.253	2.315	2-1/2	21/32
1 1/4	7-440	3/4	7/8	2.253	2.378	2-1/2	21/32
1 5/16	7-442		7/8	2.253	2.565	2-1/2	49/64
1 3/8	7-444			2.253	2.628	2-1/2	49/64
1 7/16	7-446	7/8	1	2.253	2.628	2-1/2	49/64
1 1/2	7-448		1	2.253	2.753	2-5/8	7/8
1 9/16	7-450			2.253	2.878	2-5/8	7/8
1 5/8	7-452	1	1-1/8	2.253	3.003	2-5/8	7/8
1 11/16	7-454		1-1/8	2.253	3.128	2-13/16	1
1 3/4	7-456			2.253	3.253	2-13/16	1
1 13/16	7-458	1-1/8	1-1/4	2.253	3.253	2-13/16	1
1 7/8	7-460		1-1/4	2.253	3.378	3	1 3/32
1 15/16	7-462			2.253	3.503	3-1/16	1 3/32

† These Sockets have single square openings.

"7" SERIES ACCESSORIES



EXTENSIONS



Male squares are furnished with through pin hole

No.	Lgth.	Square Male	Square Female
7-107	7	1	1
7-112	12	1	1

For Retainer Pins and "O" Rings to fit above Sockets, Extensions and Adapters see listing on page 19.

♦ REGISTERED TRADE MARK

ADAPTERS

No.	Lgth.	Square Female	Square Male
7-6	3	1	3/4

HEXAGON—SQUARE SHANKS



Male squares are furnished with through pin hole

No.	Lgth.	Square Male	Hex Male
7-64	3-9/16	1	3/4

WILLIAMS' IMPACT ♦ "SUPERSOCKETS"

"7" SERIES—1" SQUARE DRIVE

(Male Square 1.007-1.009 Female Square 1.009-1.014)



Bolt Clearance Length

Nominal Opening A	No.	Amer. Std. Heavy Nut (USS) Size Bolt	Amer. Std. Hx. Hd. Cap Screw Diam. Screw	Amer. Std. Light Nut (SAE) Size Bolt	Amer. Std. Regular Nut; Size Bolt	Maximum Dimensions	Nominal Dimensions
						Diam. Drive End B	Diam. Over-all C
						Lgth. Over-all E	Depth Opening F

BOLT CLEARANCE LENGTH—SINGLE HEXAGON OPENINGS
Finish—Rust Resistant

3/4	17-624	1/2	1/2	7/16	2.003	1.440	3	3/8
25/32	17-625	7/16			2.003	1.440	3	3/8
13/16	17-626		9/16	1/2	2.003	1.440	3	7/16
7/8	17-628	1/2	5/8	9/16	2.003	1.440	3	1/2
15/16	17-630	9/16	5/8		2.003	1.596	3	1/2
1	17-632	3/4		5/8	2.003	1.753	3	35/64
1 1/16	17-634	5/8	3/4		2.003	1.753	3	35/64
1 1/8	17-636	7/8		3/4	2.128	1.815	3	21/32
1 3/16	17-638				2.128	1.878	3	21/32
1 1/4	17-640	3/4	7/8		2.128	2.003	3	21/32
1 5/16	17-642	1		7/8	2.128	2.065	3-1/2	49/64
1 3/8	17-644		1		2.253	2.128	3-1/2	49/64
1 7/16	17-646	7/8			2.253	2.253	3-1/2	49/64
1 1/2	17-648	1-1/8		1	2.253	2.315	3-1/2	7/8
1 9/16	17-650				2.253	2.378	3-1/2	7/8
1 5/8	17-652	1	1-1/8		2.253	2.440	3-1/2	7/8
1 11/16	17-654		1-1/4	1-1/8	2.253	2.565	3-5/8	1
1 3/4	17-656				2.253	2.625	3-5/8	1
1 13/16	17-658	1-1/8	1-1/4		2.253	2.753	3-5/8	1
1 7/8	17-660			1-1/4	2.253	2.753	3-7/8	1 3/32
1 15/16	17-662				2.253	2.878	3-7/8	1 3/32

BOLT CLEARANCE LENGTH—SQUARE (4 PT.) AND
DOUBLE SQUARE (8 PT.) OPENINGS FOR SQUARE NUTS
Finish—Rust Resistant

3/4	17-424	1/2	7/16	2.003	1.878	3	3/8
25/32	17-425	7/16		2.003	1.940	3	3/8
13/16	17-426		1/2	2.003	1.940	3	7/16
7/8	17-428	1/2	9/16	2.003	2.003	3	1/2
15/16	17-430		5/8	2.128	2.065	3	1/2
1	17-432		5/8	2.128	2.128	3	35/64
1 1/16	17-434	5/8	3/4	2.128	2.128	3	35/64
1 1/8	17-436		3/4	2.253	2.253	3	21/32
1 3/16	17-438			2.253	2.315	3	21/32
1 1/4	17-440	3/4	7/8	2.253	2.378	3	21/32
1 5/16	17-442		7/8	2.253	2.565	3-1/2	49/64
1 3/8	17-444			2.253	2.628	3-1/2	49/64
1 7/16	17-446	7/8	1	2.253	2.628	3-1/2	49/64
1 1/2	17-448		1	2.253	2.753	3-1/2	7/8
1 9/16	17-450			2.253	2.878	3-1/2	7/8
1 5/8	17-452	1	1-1/8	2.253	3.003	3-1/2	7/8
1 11/16	17-454		1-1/8	2.253	3.128	3-5/8	1
1 3/4	17-456			2.253	3.253	3-5/8	1
1 13/16	17-458	1-1/8	1-1/4	2.253	3.253	3-5/8	1
1 7/8	17-460		1-1/4	2.253	3.378	3-7/8	1 3/32
1 15/16	17-462			2.253	3.503	3-7/8	1 3/32

† These Sockets have single square openings.

WILLIAMS' IMPACT ♦ "SUPERSOCKET" SETS

"4" SERIES—1/2" SQUARE DRIVE



SET No. A-46

Complete in Cardboard Box 6 Pieces

CONTENTS

6 Standard Length—Alternate Design Impact "Supersockets" with Hexagon Openings—1/2, 9/16, 5/8, 11/16, 3/4 and 7/8.

SET No. 410

Complete in Cardboard Box 10 Pieces

CONTENTS

10 Standard Length Impact "Supersockets" with Hexagon Openings—7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16 and 1".

For Part Numbers and Dimensions See A-4 and 4 Series Standard Length Sockets as listed on Page 17.

WILLIAMS' ADJUSTABLE WRENCHES

Carbon Steel
PATENTED



Fully Guaranteed

Williams' Carbon Adjustable Wrenches with thin, tapered jaws, are thinner and lighter than conventional carbon steel adjustable wrenches of similar capacity.

The exclusive design of the square shoulders on the shank portion of the sliding jaw provide maximum and positive bearing against working stress. They eliminate entirely the wedging and spreading action, inevitable in wrenches having a cylindrical bearing at this point. The shoulders also permit a thicker "web" on the jaw, for added strength, without increasing the thickness of the wrench head. The net result is a sliding jaw that is unbreakable in wrench service.

Drop-forged from specially strong, tough steel and accurately heat-treated in electric furnaces for uniform, dependable strength. Finish—shot-blasted, faces of heads polished bright. Packed, individually, in attractive cardboard box.

No.	Size, Inch	Capacity	Thickness Head		Packaged Quantity
			Tip of Jaws	Extreme	
A-14	4	1/2	9/64	5/16	1
A-16	6	3/4	7/32	3/8	1
A-18	8	15/16	17/64	1/2	1
A-110	10	1 1/8	23/64	19/32	1
A-112	12	1 5/16	15/32	23/32	1
A-115	15	1 3/4	19/32	31/32	1
A-118	18	2 1/16	23/32	1 3/16	1

ADJUSTABLE REPLACEMENT PARTS ASSORTMENT

Carbon Steel
Weight, 2.5 Lbs.

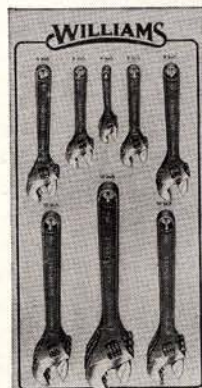


Packed in cardboard box with compartments containing 88 of the following parts:—

Size	Jaws	Knurls	Pins	Springs
4"	4	4	4	4
6"	6	6	6	6
8"	6	6	6	6
10"	4	4	4	4
12"	2	2	2	2

WILLIAMS' WRENCH DISPLAY BOARDS

12 x 24" Finished in bright Williams' Orange
Furnished at cost of tools only



No. 11

CARBON
ADJUSTABLE WRENCHES

Total Weight, 19.5 lbs.

CONTENTS

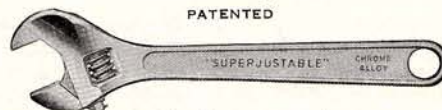
No.	Size	Quantity	Capacity
A-14	4 Inch	6	1/2"
A-16	6 Inch	6	3/4"
A-18	8 Inch	6	15/16"
A-110	10 Inch	6	1-1/8"
A-112	12 Inch	3	1-5/16"

★ REGISTERED TRADE MARK

WILLIAMS' "SUPERJUSTABLE" WRENCHES

Selected Alloy Steel

PATENTED



Fully Guaranteed

Williams' "Superjustable" Wrenches with thin, tapered jaws, are drop-forged from the finest grade of Selected Alloy Steel obtainable for the purpose.

The exclusive design of the square shoulders on the shank portion of the sliding jaw provide maximum and positive bearing against working stress. They eliminate entirely the wedging and spreading action, inevitable in wrenches having a cylindrical bearing at this point. The shoulders also permit a thicker "web" on the jaw, for added strength, without increasing the thickness of the wrench head. The net result is a sliding jaw with maximum resistance to breakage.

Attractively finished in chrome-plate over nickel, with highly polished face; the handle is in "satin" finish. Individually packed.

No.	Size, Inch	Capacity	Thickness Head		Packaged Quantity
			Tip of Jaws	Extreme	
AC-14	4	1/2	9/64	5/16	1
AC-16	6	3/4	7/32	3/8	1
AC-18	8	15/16	17/64	1/2	1
AC-110	10	1 1/8	23/64	19/32	1
AC-112	12	1 5/16	15/32	23/32	1
AC-115	15	1 3/4	19/32	31/32	1
AC-118	18	2 1/16	23/32	1 3/16	1
AC-124	24	2 7/16	7/8	1 3/8	1

"SUPERJUSTABLE" REPLACEMENT PARTS ASSORTMENT

Selected Alloy Steel
Weight, 2.5 Lbs.



Packed in cardboard box with compartments containing 88 of the following parts:—

Size	Jaws	Knurls	Pins	Springs
4"	4	4	4	4
6"	6	6	6	6
8"	6	6	6	6
10"	4	4	4	4
12"	2	2	2	2

WILLIAMS' WRENCH DISPLAY BOARDS

12 x 24" Finished in rich maroon lacquer
Furnished at cost of tools only



No. 10

ALLOY "SUPERJUSTABLE"
WRENCHES

Total Weight, 19.8 lbs.

CONTENTS

No.	Size	Quantity	Capacity
AC-14	4 Inch	6	1/2"
AC-16	6 Inch	6	3/4"
AC-18	8 Inch	6	15/16"
AC-110	10 Inch	6	1-1/8"
AC-112	12 Inch	3	1-5/16"

WILLIAMS' MIDGET "SUPERRENCHES"

Selected Alloy Steel
OPEN END PATTERN



15° Angle Openings



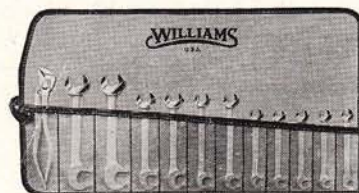
15° and 75° Angle Openings

Midget "Superrenches" are unusually thin and slim, but surprisingly tough and strong. Forged from Selected Alloy Steel, heat-treated, chrome-plate over nickel, faces bright.

No.	Nominal Openings	Extreme Length	Thickness Heads	Packaged Quantity
15° ANGLE OPENING				
1106	13/64 & 7/32	3	3/32	6
1107	15/64 & 1/4	3	3/32	6
1108	9/32 & 11/32	3 1/2	1/8	6
1108A	1/4 & 5/16	3 1/2	1/8	6
1109	5/16 & 3/8	3 1/2	1/8	6
15-75° ANGLE OPENING				
1112	3/16 & 3/16	3	3/32	6
1113	13/64 & 13/64			6
1114	7/32 & 7/32			6
1115	15/64 & 15/64			6
1116	1/4 & 1/4	3 3/4	1/8	6
1118	9/32 & 9/32			6
1120	5/16 & 5/16			6
1122	11/32 & 11/32			6
1124	3/8 & 3/8	4 1/2	5/32	6
1128	7/16 & 7/16			6
1132	1/2 & 1/2			6

WILLIAMS' MIDGET "SUPERRENCH" SETS

Selected Alloy Steel



SET No. 1141P
In Leatherette Roll
In Cardboard Box
Weight, .5 Lb.

Contains 11 Midget "Superrenches" Nos. 1112, 1113, 1114, 1115, 1116, 1118, 1120, 1122, 1124, 1128, 1132 and 1519 Midget "Superplier".

SET No. 1149P
With 1519
"Superplier"
In
Leatherette Roll
In Cardboard Box
Weight, .25 Lb.

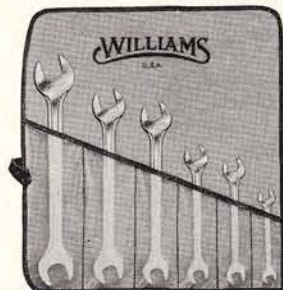


SET No. 1149
Without 1519
"Superplier"
In
Leatherette Roll
In Cardboard Box
Weight, .13 Lb.

Handy assortment of 5 Midget "Superrenches" Nos. 1106, 1107, 1108, 1108A, 1109 and 1519 "Superplier".

WILLIAMS' "SUPERRENCH" SETS

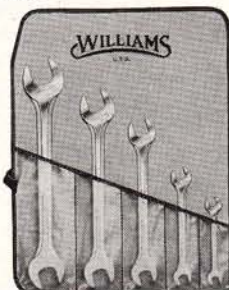
Selected Alloy Steel



SET No. A1025A
In Leatherette Roll
In Cardboard Box
Weight, 2.8 Lbs.

Contains one each Nos. A1723, A1025, A1727, A1029, A1731A and A1033C.

★ REGISTERED TRADE MARK



SET No. A1005S
In Leatherette Roll
In Cardboard Box
Weight, 3.9 Lbs.

Contains one each Nos. A1725, A1727, A1731A, A1033C and A1037.

WILLIAMS' "SUPERRENCHES"

Selected Alloy Steel
NEW STREAMLINED DESIGN
15° Angle, Double Head Open-End



Slimmer heads, longer and narrower handles make these wrenches more serviceable where clearance is limited.

The selected alloy steel from which these "Superrenches" are drop-forged assures ample strength for the severest service. Finish is chrome-plate over nickel with faces polished bright. Whitworth and Metric sizes available; information on request.

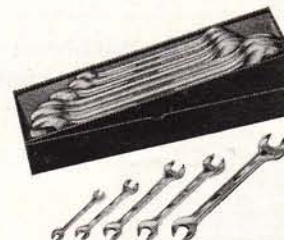
No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.); Size Bolts	Amer. Std. Hex Hd. Cap Screws; Diam. Screws	Amer. Std. Light Nuts (S.A.E.); Size Bolts	Amer. Std. Regular Nuts Size Bolts	Ex-treme Length	Thick-ness Heads	Pack-aged Quan.
A1020	1/4 & 5/16	1/8	1/8	.....	.....	3 1/8	5/16	6
A1720	5/16 & 11/16	1/2	1/2	.....	.....	4 1/4	5/16	6
A1721	5/16 & 3/8	3/8	3/8	.....	.....	4 1/4	5/16	6
A1021	5/16 & 13/16	1/2	1/2	.....	.....	4 1/2	5/16	6
A1723	3/8 & 7/8	3/8	3/8	.....	.....	4 1/2	5/16	6
A1023	1/2 & 1 1/2	1 1/2	1 1/2	.....	.....	4 7/8	5/16	6
A1723A	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	4 7/8	5/16	6
A1725	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	4 7/8	5/16	6
A1725A	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	4 7/8	5/16	6
A1725B	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	4 7/8	5/16	6
A1025	1/2 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1727	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1027C	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1027	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1027B	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1028	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1028S	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1729	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1029B	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1029	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1029C	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1030	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1731	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1731A	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1031B	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1031	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1731B	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1032B	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1032	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1033A	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1733	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1033C	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1034	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1034A	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1035	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1735	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1036B	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1037	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1737	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1037A	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1039B	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1039	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1039A	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1039C	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1040	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1041	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6
A1041B	3/8 & 1 1/2	1 1/2	1 1/2	.....	.....	5 1/8	5/16	6

SET No. A1712A

Complete,
In Cardboard Box

11 Wrenches,
22 Different Openings

Weight, 9.5 Lbs.



No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.); Size Bolts	Amer. Std. Hex Head Cap Screws; Diam. Screws	Amer. Std. Light Nuts (S.A.E.); Size Bolts	Amer. Std. Regular Nuts; Size Bolts
A1020	1/4 & 5/16	1/8	1/8	.....	.....
A1723	3/8 & 7/16	.....	3/16 & 1/4	1/4	1/4
A1025	1/2 & 19/32	1/4 & 5/16	5/16	5/16	5/16
A1727	9/16 & 5/8	.....	3/8 & 7/16	3/8 & 7/16	5/16 & 3/8
A1029	11/16 & 25/32	3/8 & 7/16	.....	.....	.....
A1731	3/4 & 13/16	.....	1/2 & 9/16	1/2	7/16 & 1/2
A1033A	7/8 & 15/16	1/2 & 9/16	5/8	9/16 & 5/8	9/16
A1735	1 & 1 1/8	.....	3/4 & 7/8	.....	5/8 & 3/4
A1037	1 1/16 & 1 1/4	5/8 & 3/4	.....	3/4 & 7/8	.....
A1039A	1 5/16 & 1 1/2	.....	1 & 1 1/8	.....	7/8 & 1
A1039C	1 3/8 & 1 7/16	7/8	.....	1	.....

WILLIAMS' ♦ "SUPERRENCHES"

Selected Alloy Steel

TAPPET PATTERN — 15° Angle, Double Head



These light, thin Wrenches are specially designed for tappet adjustment; their length is ample to prevent burning the hands when the motor is hot.

The 15° angle of opening is unequalled in efficiency. It makes the same size opening in both heads of the wrench unnecessary. Consequently each "Superrench" serves two sizes of tappets.

Drop-forged from special Selected Alloy Steel, heat-treated, chrome-finished, heads buffed bright.

No.	Nominal Opening Tappet Sizes	Amer. Std. Heavy Nuts (USS); Size Bolts	Amer. Std. Hex Head Cap Screws	Amer. Std. Light Nuts (SAE); Size Bolts	Amer. Std. Regl. Nuts; Size Bolts	Ex- treme Length	Thick- ness Heads	Pack- aged Qty.
1090A	3/8 & 7/16	1/4	1/4 & 5/16	1/4 & 5/16	1/4	8	5/32	6
1090	7/16 & 17/32	1/4	1/4 & 5/16	1/4 & 5/16	1/4	8	5/32	6
1090G	7/16 & 17/32	1/4	1/4 & 5/16	1/4 & 5/16	1/4	8	5/32	6
1090D	1/2 & 5/8	1/4	1/4 & 5/16	1/4 & 5/16	1/4	8	5/32	6
1092	5/8 & 11/16	3/8	3/8 & 7/16	3/8 & 7/16	3/8	8	5/32	6
1092F	5/8 & 11/16	3/8	3/8 & 7/16	3/8 & 7/16	3/8	8	5/32	6
1094G	5/8 & 11/16	3/8	3/8 & 7/16	3/8 & 7/16	3/8	9	7/32	6
1094	5/8 & 11/16	3/8	3/8 & 7/16	3/8 & 7/16	3/8	9	7/32	6
1096	15/16 & 1	3/4	3/4 & 7/8	3/4 & 7/8	3/4	9	7/32	6

WILLIAMS' TAPPET ♦ "SUPERRENCH" SETS

Selected Alloy Steel

These light, thin Wrenches are specially designed for tappet adjustment; their length is ample to prevent burning the hands when the motor is hot.

The 15° angle of opening is unequalled in efficiency. It makes the same size opening in both heads of the wrench unnecessary. Consequently each "Superrench" serves two sizes of tappets.

Drop-forged from special Selected Alloy Steel, heat-treated, chrome-finished, heads buffed bright.



SET No. 1032
In Leatherette Roll
In Cardboard Box
Weight, 1.3 Lbs.

Six "Superrenches"; 2 each of Nos. 1090, 1090D and 1092F, covering every tappet size from 7/16 in. to 11/16 in. Cares for 80% of all passenger cars, buses and trucks.

See Table above for individual Wrench Opening and Bolt Size Tabulation.

SET No. 1042
In Leatherette Roll
In Cardboard Box
Weight, 1.9 Lbs.



Eight "Superrenches"; 2 each of Nos. 1090, 1090D, 1092F and 1094, provide comprehensive service for tappet adjustment. Cover practically all passenger cars, buses and trucks. An ideal set for the automobile mechanic.

♦ REGISTERED TRADE MARK

WILLIAMS' ♦ "SUPERRENCHES"

Selected Alloy Steel

EXTRA LONG, THIN TAPPET PATTERN—15° Angle



All auto mechanics will want these extra long (15 inch) Tappet Wrenches for convenient reach over hot manifolds. Slender and light for easy adjustment, with narrow jaws for close places. The range of openings—3/8 to 5/8"—provides comprehensive service for practically every make of car, including late models. All heads 3/16" thick.

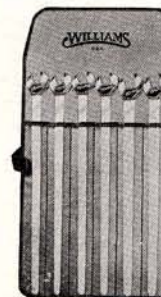
Sold individually and in sets.

Drop-forged from special Selected Alloy Steel, and heat-treated for maximum strength. Cadmium-plated.

No.	Nominal Opening	Amer. Std. Hex Head Cap Screw	Amer. Std. Light Nut (S.A.E.)	Amer. Std. Regular Nut	Pack- aged Qty.
A100C	3/8	3/16	1/4	1/4	6
A100	7/16	5/16	5/16	5/16	6
A100A	1/2	3/8	3/8	3/8	6
A100B	9/16	7/16	7/16	7/16	6
A101	5/8	7/16	7/16	7/16	6

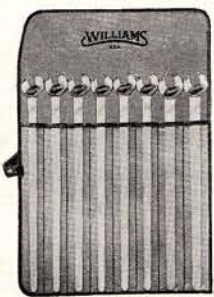
WILLIAMS' TAPPET ♦ "SUPERRENCH" SETS

Selected Alloy Steel



These extra long, thin Wrenches are specially designed for tappet adjustment; their length is ample to prevent burning the hands when the motor is hot.

The 15° angle of opening is unequalled in efficiency.



Drop-forged from special Selected Alloy Steel and heat-treated. Cadmium-plated.

SET No. 106
In Leatherette Roll
In Cardboard Box
Weight, 2 Lbs.

6 wrenches; 2 each of Nos. A100A, A100B and A101, described above

See Table above for Individual Wrench Opening and Bolt Size Tabulation.

SET No. 108
In Leatherette Roll
In Cardboard Box
Weight, 2.7 Lbs.

8 wrenches; 2 each of Nos. A100, A100A, A100B and A101, described above

WILLIAMS' MIDGET ♦ "SUPERRENCHES"

Selected Alloy Steel

6-POINT BOX MIDGET PATTERN



Midget Double Offset Box "Superrenches" are ideal for carburetor, electrical and ignition work. Offset design clears small obstructions where working space is limited. Selected Alloy Steel, heat-treated, chrome-plate over nickel, heads bright. Sold individually or in Set No. 1154S.



SET No. 1154S
In Leatherette Roll
In Cardboard Box
Weight, .19 Lb.

No.	Nominal Openings	Extreme Length	Packaged Quantity	No.
1150	13/64 & 3/16	2 7/8	6	1150
1151	15/64 & 7/32	3 1/8	6	1151
1152	9/32 & 1/4	3 3/8	6	1152
1153	11/32 & 5/16	3 3/4	6	1153

WILLIAMS' ♦ "SUPERRENCHES"

Selected Alloy Steel
OPEN END-BOX PATTERN

These long, slender "Superrenches", combining two styles of head are designed especially for use in close quarters and tight corners.

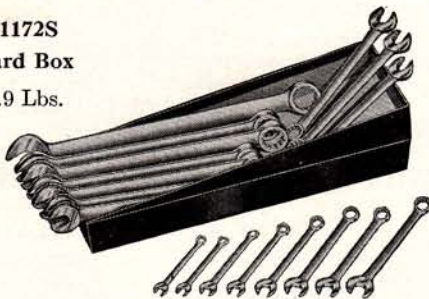
Open end is thin, with slim jaws and opening at angle of 15°.

Box end, with 12-point opening and thin walls, is offset from plane of handle; see illustration. Same size opening in both heads. Drop-forged from Selected Alloy Steel, heat-treated, chrome-plated; faces of open end buffed.

Sold individually and in Sets.

No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.); Size Bolts	Amer. Std. Hex Head Cap Screws; Diam. Screws	Amer. Std. Light Nuts (SAE); Size Bolts	Amer. Std. Reglr. Nuts; Size Bolts	Ex-treme Length, Approx.	Pack-aged Qty.
1158	1/4 & 1/4				*No. 4	5	6
1159	5/16 & 5/16	1/8	1/8			5 1/2	6
1159A	11/32 & 11/32				*No. 8	5 1/2	6
1160	3/8 & 3/8		3/16			6	6
1161	7/16 & 7/16		1/4	1/4	1/4	6 5/8	6
1162	1/2 & 1/2	1/4	5/16	5/16	5/16	7 3/16	6
1163	9/16 & 9/16		3/8	3/8	5/16	7 15/16	6
1163A	19/32 & 19/32	5/16				8 3/4	6
1164	5/8 & 5/8		7/16	7/16	3/8	8 3/4	6
1165	11/16 & 11/16	3/8				9 5/8	6
1166	3/4 & 3/4		1/2	1/2	7/16	10 5/8	6
1166A	25/32 & 25/32	7/16				11 9/16	6
1167A	13/16 & 13/16		9/16		1/2	11 9/16	6
1167	7/8 & 7/8	1/2	5/8	9/16		12 11/16	6
1168	15/16 & 15/16	9/16		5/8		13 7/8	6
1170	1 & 1		3/4		5/8	15 1/8	6
1171	1 1/16 & 1 1/16	5/8		3/4		16 1/4	6
1172	1 1/8 & 1 1/8		7/8		3/4	17 7/16	6
1173	1 1/4 & 1 1/4	3/4		7/8		18 11/16	6
1174	1 5/16 & 1 5/16		1		7/8	20	6
1176A	1 3/8 & 1 3/8					21 5/16	1
1176	1 7/16 & 1 7/16	7/8		1		21 5/16	1
1178	1 1/2 & 1 1/2		1 1/8		1	21 5/16	1
1180	1 5/8 & 1 5/8	1		1 1/8		22 3/4	1

WILLIAMS' ♦ "SUPERRENCH" SETS

Selected Alloy Steel
OPEN END-BOX PATTERNSET No. 1172S
In Cardboard Box
Weight, 12.9 Lbs.

No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.)	Amer. Std. Hex Hd. Cap Screw	Amer. Std. Light Nuts (S.A.E.)	Amer. Std. Regular Nuts	Ex-treme Length, Approx.
1159	5/16 & 5/16	1/8	1/8			5 1/2
1159A	11/32 & 11/32				*No. 8	5 1/2
1160	3/8 & 3/8		3/16			6
1161	7/16 & 7/16		1/4	1/4	1/4	6 5/8
1162	1/2 & 1/2	1/4	5/16	5/16	5/16	7 3/16
1163	9/16 & 9/16		3/8	3/8	5/16	7 15/16
1163A	19/32 & 19/32	5/16				8 3/4
1164	5/8 & 5/8		7/16	7/16	3/8	8 3/4
1165	11/16 & 11/16	3/8				9 5/8
1166	3/4 & 3/4		1/2	1/2	7/16	10 5/8
1166A	25/32 & 25/32	7/16				11 9/16
1167A	13/16 & 13/16		9/16		1/2	11 9/16
1167	7/8 & 7/8	1/2	5/8	9/16	9/16	12 11/16
1168	15/16 & 15/16	9/16		5/8		13 7/8
1170	1 & 1		3/4		5/8	15 1/8
1171	1 1/16 & 1 1/16	5/8		3/4		16 1/4
1172	1 1/8 & 1 1/8		7/8		3/4	17 7/16
1173	1 1/4 & 1 1/4	3/4		7/8		18 11/16

♦ REGISTERED TRADE MARK

WILLIAMS' ♦ "SUPERRENCH" SETS

Selected Alloy Steel
OPEN END-BOX PATTERNSET No. 1170S
In Leatherette Roll
In Cardboard Box
Weight, 2.2 Lbs.SET No. 1173S
In Leatherette Roll
In Cardboard Box
Weight, 1 Lb.

No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.)	Amer. Std. Hex Hd. Cap Screw	Amer. Std. Light Nuts (S.A.E.)	Amer. Std. Regular Nuts	Ex-treme Length, Approx.
1161	7/16 & 7/16		1/4	1/4	1/4	6 5/8
1162	1/2 & 1/2	1/4	5/16	5/16		7 3/16
1163	9/16 & 9/16		3/8	3/8	5/16	7 15/16
1164	5/8 & 5/8		7/16	7/16	3/8	8 3/4
1166	3/4 & 3/4		1/2	1/2	7/16	10 5/8
1167	7/8 & 7/8	1/2	5/8	9/16	9/16	12 11/16

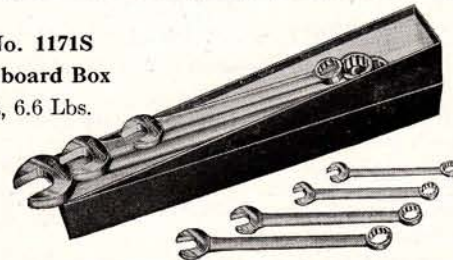
SET No. 1173S

1159	5/16 & 5/16	1/8	1/8			5 1/2
1159A	11/32 & 11/32				*No. 8	5 1/2
1160	3/8 & 3/8		3/16			6
1161	7/16 & 7/16		1/4	1/4	1/4	6 5/8
1162	1/2 & 1/2	1/4	5/16	5/16		7 3/16
1163	9/16 & 9/16		3/8	3/8	5/16	7 15/16
1164	5/8 & 5/8		7/16	7/16	3/8	8 3/4

SET No. 1171S

In Cardboard Box

Weight, 6.6 Lbs.



No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.)	Amer. Std. Hex Hd. Cap Screw	Amer. Std. Light Nuts (S.A.E.)	Amer. Std. Regular Nuts	Ex-treme Length, Approx.
1162	1/2 & 1/2	1/4	5/16	5/16		7 3/16
1163A	19/32 & 19/32	5/16				8 3/4
1165	11/16 & 11/16	3/8				9 5/8
1166A	25/32 & 25/32	7/16				11 9/16
1167	7/8 & 7/8	1/2	5/8	9/16	9/16	12 11/16
1171	1 1/16 & 1 1/16	5/8		3/4		16 1/4
1173	1 1/4 & 1 1/4	3/4		7/8		18 11/16

WILLIAMS' ♦ "SUPERRENCHES"

Selected Alloy Steel
FLARE NUT PATTERN

Open box end, has a 12-point opening offset 15° from plane of handle with a tube opening slot at 22-1/2° to the axis of the handle. Open end is thin, with slim jaws and opening at angle of 15°. Drop-forged from Selected Alloy Steel, heat-treated and chrome plated, heads buffed.

No.	OPEN END		OPEN-BOX END			Ex-treme Length, Approx.	Pack-aged Quan.
	Nominal Opening	Thick-ness Head	Nominal Opening	Out-side Diam.	Thick-ness Head		
1312	3/8	3/16	3/8	21/32	5/16	1/4	5 5/8
1314	7/16	13/64	7/16	25/32	11/32	9/32	6
1316	1/2	7/32	1/2	29/32	7/16	3/8	6 3/8
1318	9/16	15/64	9/16	31/32	7/16	7/16	6 7/8
1320	5/8	1/4	5/8	1 1/64	1/2	15/32	7 5/8
1322	11/16	5/16	11/16	1 9/32	9/16	9/16	8 3/4
1324	3/4	5/16	3/4	1 9/32	9/16	9/16	8 3/4
1328	7/8	11/32	7/8	1 7/16	5/8	11/16	9 1/4
1332	1	3/8	1	1 19/32	11/16	3/4	9 7/8
1334	1 1/16	7/16	1 1/16	1 25/32	3/4	27/32	10 3/4
1336	1 1/8	7/16	1 1/8	1 25/32	3/4	27/32	10 3/4

* Amer. Std. Machine Screw and Stove Bolt Nuts.

WILLIAMS' ♦ "SUPERRENCHES"

Selected Alloy Steel

REGULAR 12-POINT BOX PATTERN

12-Point Opening — 7-1/2° Angle



These "Superrenches" with thin head walls, are particularly efficient in close quarters and for general service. Will rotate hex nuts where the wrench can be swung only 15°. Drop-forged from Selected Alloy Steel—heat-treated. Chrome-plate over nickel, heads bright. Handle can be bent above head at angles of 45° to 90° from opening, at an additional charge.

No.	Nominal Opening Across Flats	For Amer. Std. Heavy Nut (USS); Size Bolt	For Amer. Std. Hx. Hd. Cap Screw; Size Bolt	For Amer. Std. Light Nut (SAE); Size Bolt	For Amer. Std. Regl. Nut; Size Bolt	Ex-treme Length Approx.	Head		Pack-aged Qty.
							Thick-ness	Out-side Diam.	
1800A	7/16	.....	1/4	1/4	1/4	3 1/2	7/32	45/64	6
1801	1/2	1/4	5/16	5/16	.....	4	17/64	27/32	6
1802A	9/16	.....	3/8	3/8	5/16	4 7/8	5/16	61/64	6
1802	19/32	5/16	.....	.....	.....	4 7/8	5/16	61/64	6
1803A	5/8	.....	7/16	7/16	3/8	5 7/8	23/64	1 3/32	6
1803	11/16	3/8	.....	.....	.....	5 7/8	23/64	1 3/32	6
1804A	3/4	.....	1/2	1/2	7/16	6 7/8	13/32	1 1/4	6
1804	25/32	7/16	.....	.....	.....	6 7/8	13/32	1 1/4	6
1805A	13/16	.....	9/16	9/16	1/2	7 3/4	29/64	1 23/64	6
1805	7/8	1/2	5/8	9/16	9/16	7 3/4	29/64	1 23/64	6
1806	15/16	9/16	.....	5/8	.....	8 3/4	1 1/2	1 35/64	6
1806B	1	.....	3/4	.....	5/8	8 3/4	1 1/2	1 35/64	6
1807	1 1/16	5/8	.....	3/4	.....	9 7/8	9/16	1 25/32	6
1807A	1 1/8	.....	7/8	.....	3/4	9 7/8	9/16	1 25/32	6
1808	1 1/4	3/4	.....	7/8	.....	11 1/2	9/16	2 1/16	6
1808A	1 5/16	.....	1	.....	7/8	11 1/2	9/16	2 1/16	6
1809	1 7/16	7/8	.....	1	.....	13 3/8	21/32	2 3/8	6
1809A	1 1/2	.....	1 1/8	.....	1	13 3/8	21/32	2 3/8	6
1810	1 5/8	1	.....	1 1/8	.....	15 1/4	3/4	2 5/8	1
1810A	1 11/16	.....	1 1/4	.....	1 1/8	15 1/4	3/4	2 5/8	1
1811	1 13/16	1 1/8	.....	1 1/4	.....	17	13/16	2 29/32	1
1811A	1 7/8	.....	.....	1 1/4	.....	17	13/16	2 29/32	1
1812	2	1 1/4	.....	1 3/8	.....	19	15/16	3 1/4	1

WILLIAMS' ♦ "SUPERRENCHES"

Selected Alloy Steel

HEAVY 12-POINT BOX PATTERN

12-Point Opening — 7-1/2° Angle



These "Superrenches" with thin head walls, grip nuts on six sides and prevent slipping. Will rotate hex nuts where the wrench can be swung only 15°. Drop-forged from Selected Alloy Steel—heat-treated. Chrome-plate over nickel, heads bright. Handle can be bent above head at angles of 45° to 90° from opening, at an additional charge.

No.	Nominal Opening Across Flats	For Amer. Std. Heavy Nut (USS); Size Bolt	For Amer. Std. Hx. Hd. Cap Screw; Size Bolt	For Amer. Std. Light Nut (SAE); Size Bolt	For Amer. Std. Regl. Nut; Size Bolt	Ex-treme Length Approx.	Head		Pkg. Qty.
							Thick-ness	Out-side Diam.	
H1808	1 1/4	3/4	.....	7/8	.....	11 1/2	13/16	2 1/16	6
H1808A	1 5/16	.....	1	.....	7/8	11 1/2	13/16	2 1/16	6
H1809	1 7/16	7/8	.....	1	.....	13 3/8	15/16	2 3/8	6
H1809A	1 1/2	.....	1 1/8	.....	1	13 3/8	15/16	2 3/8	6
H1810	1 5/8	1	.....	1 1/8	.....	15 1/4	1 1/8	2 5/8	1
H1810A	1 11/16	.....	1 1/4	.....	1 1/8	15 1/4	1 1/8	2 5/8	1
H1811	1 13/16	1 1/8	.....	1 1/4	.....	17	1 1/4	2 15/16	1
H1811A	1 7/8	.....	.....	1 1/4	.....	17	1 1/4	2 15/16	1
H1812	2	1 1/4	.....	1 3/8	.....	19	1 3/8	3 1/4	1
H1813	2 3/16	1 3/8	.....	1 1/2	.....	21	1 1/2	3 1/2	1
H1813A	2 1/4	.....	.....	1 1/2	.....	21	1 1/2	3 1/2	1
H1814	2 3/8	1 1/2	.....	.....	.....	23	1 5/8	3 3/4	1
H1815	2 9/16	1 5/8	.....	.....	.....	25	1 3/4	4 1/8	1
H1815A	2 5/8	.....	.....	1 3/4	.....	25	1 3/4	4 1/8	1
H1816	2 3/4	1 3/4	.....	.....	.....	27	1 7/8	4 9/16	1
H1817A	3	.....	.....	.....	2	30	2	4 13/16	1
H1817	3 1/8	2	.....	.....	.....	30	2	4 13/16	1

♦ REGISTERED TRADE MARK

WILLIAMS' ♦ "SUPERRENCHES"

Selected Alloy Steel

STRUCTURAL BOX PATTERN

With 12-Point Openings



The long sturdy tapered handle provides ample strength and leverage, and can easily be inserted into bolt holes to bring them into line.

Drop-forged from Selected Alloy Steel, heat-treated, and finished in baked gray enamel all over.

No.	Nominal Opening	Amer. Std. Heavy Nut (USS); Size Bolt	Ex-treme Length, Approx.	Head		Handle Offset		Pkg. Qty.
				Thick-ness	Out-side Diam.	At Head	At End	
8905A	13/16	.....	12	5/8	1 11/32	1 1/8	1 25/32	1
8905	7/8	1/2	12	5/8	1 11/32	1 1/8	1 25/32	1
8906	15/16	9/16	12	3/4	1 1/2	1 1/4	1 61/64	1
8906B	1	.....	12	3/4	1 1/2	1 1/4	1 61/64	1
8907	1 1/16	5/8	15	13/16	1 11/16	1 5/16	2 9/64	1
8907A	1 1/8	.....	15	13/16	1 11/16	1 5/16	2 9/64	1
8908	1 1/4	3/4	17	7/8	2	1 7/16	2 21/64	1
8908A	1 5/16	.....	17	7/8	2	1 7/16	2 21/64	1
8909	1 7/16	7/8	21	1	2 3/16	1 1/2	2 3/4	1
8909A	1 1/2	.....	21	1	2 3/16	1 1/2	2 3/4	1
8910	1 5/8	1	22	1 1/16	2 1/2	1 5/8	2 7/8	1
8910A	1 11/16	.....	22	1 1/16	2 1/2	1 5/8	2 7/8	1
8911	1 13/16	1 1/8	23	1 1/8	2 3/4	1 11/16	3	1
8911A	1 7/8	.....	23	1 1/8	2 3/4	1 11/16	3	1
8912	2	1 1/4	24 1/2	1 1/4	3	1 13/16	3 5/32	1
8913	2 3/16	1 3/8	26	1 3/8	3 3/8	2	3 1/2	1
8914	2 3/8	1 1/2	28	1 1/2	3 23/32	2 1/8	3 11/16	1
8915	2 9/16	1 5/8	30	1 5/8	3 29/32	2 1/4	3 13/16	1
8916	2 3/4	1 3/4	30	1 3/4	4 5/32	2 3/8	3 29/32	1

NOTE: These Wrenches can be supplied with heads bent up to 90° right or left of handle at extra charge.

WILLIAMS' ♦ "SUPERRENCHES"

Selected Alloy Steel

HEAVY STRIKING FACE 12-POINT BOX PATTERN

12-Point Opening — 7-1/2° Angle



These Striking Face "Superrenches," with thin head walls, are particularly efficient in close quarters where large nuts must be set up tight, or frozen nuts loosened. They grip nuts on six sides and prevent slipping. The heads, approximately as thick as the nuts they handle, afford extra strength and full bearing in severe service. Will rotate hex nuts where the wrench can be swung only 15°.

Drop-forged from Selected Alloy Steel—heat-treated. Finished in baked gray enamel all over.

No.	Nominal Opening Across Flats	For Amer. Std. Heavy Nut (USS); Size Bolt	For Amer. Std. Hx. Hd. Cap Screw; Size Bolt	For Amer. Std. Light Nut (SAE); Size Bolt	For Amer. Std. Regl. Nut; Size Bolt	Ex-treme Length, Approx.	Head		Pkg. Qty.
							Thick-ness	Out-side Diam.	
SFH-1808	1 1/4	3/4	.....	7/8	.....	7	13/16	2 1/16	1
SFH-1808A	1 5/16	.....	1	.....	7/8	7	13/16	2 1/16	1
SFH-1809	1 7/16	7/8	.....	1	.....	8	15/16	2 3/8	1
SFH-1809A	1 1/2	.....	1 1/8	.....	1	8	15/16	2 3/8	1
SFH-1810	1 5/8	1	.....	1 1/8	.....	9	1 1/8	2 5/8	1
SFH-1810A	1 11/16	.....	1 1/4	.....	1 1/8	9	1 1/8	2 5/8	1
SFH-1811	1 13/16	1 1/8	.....	1 1/4	.....	10	1 1/4	2 15/16	1
SFH-1811A	1 7/8	.....	.....	1 1/4	.....	10	1 1/4	2 15/16	1
SFH-1812	2	1 1/4	.....	1 3/8	.....	11	1 3/8	3 1/4	1
SFH-1813	2 3/16	1 3/8	.....	1 1/2	.....	12	1 1/2	3 1/2	1
SFH-1813A	2 1/4	.....	.....	1 1/2	.....	12	1 1/2	3 1/2	1
SFH-1814	2 3/8	1 1/2	.....	.....	.....	13	1 5/8	3 3/4	1
SFH-1815	2 9/16	1 5/8	.....	.....	.....	14	1 3/4	4 1/8	1
SFH-1815A	2 5/8	.....	.....	1 3/4	.....	14	1 3/4	4 1/8	1
SFH-1816	2 3/4	1 3/4	.....	.....	.....	15	1 7/8	4 9/16	1
SFH-1817A	3	.....	.....	.....	2	17	2	4 13/16	1
SFH-1817	3 1/8	2	.....	.....	.....	17	2	4 13/16	1

WILLIAMS' ♦ "SUPERRENCHES"

Selected Alloy Steel
STRIKING FACE BOX — OFFSET PATTERN
With 12-Point Openings



The Striking Face Box "Superrench" is particularly well adapted for heavy industrial and automotive work in close quarters where large nuts must be set up tight or frozen nuts loosened.

Offset head gives ample nut clearance. Drop-forged from Selected Alloy Steel, properly heat-treated to withstand the necessary shocks. Finished in baked gray enamel all over.

No.	Nominal Opening	Amer. Std. Heavy Nuts (USS); Size Bolt	Amer. Std. Light Nut (SAE); Size Bolt	Amer. Std. Regl. Nut; Size Bolt	Ex-treme Length, Approx.	Head		Pack-aged Qty.
						Thick-ness	Out-side Diam.	
8807	1 1/16	5/8	3/4		10 1/2	13/16	1 11/16	1
8807A	1 1/8			3/4	10 1/2	13/16	1 11/16	1
8808	1 1/4	3/4	7/8		11	7/8	2 2	1
8808A	1 5/16			7/8	11	7/8	2 2	1
8809	1 7/16	7/8	1		11 1/2	1	2 3/16	1
8809A	1 1/2			1	11 1/2	1	2 3/16	1
8810	1 5/8	1	1 1/8		12	1 1/16	2 1/2	1
8810A	1 11/16			1 1/8	12	1 1/16	2 1/2	1
8811	1 13/16	1 1/8	1 1/4		12 1/2	1 1/8	2 3/4	1
8811A	1 7/8			1 1/4	12 1/2	1 1/8	2 3/4	1
8812	2	1 1/4	1 3/8		13 1/2	1 1/4	3	1
8813	2 3/16	1 3/8	1 1/2		13 1/2	1 3/8	3 3/8	1
8813A	2 1/4			1 1/2	13 1/2	1 3/8	3 3/8	1
8814	2 3/8	1 1/2			14	1 1/2	3 23/32	1
8815	2 9/16	1 5/8			14 1/2	1 5/8	3 29/32	1
8815A	2 5/8			1 3/4	14 1/2	1 5/8	3 29/32	1
8816	2 3/4	1 3/4			15	1 3/4	4 5/32	1
8816B	2 15/16	1 7/8			16	1 7/8	4 21/32	1
8817A	3			2	16 1/2	2	4 15/16	1
8817	3 1/8	2			16 1/2	2	4 15/16	1

WILLIAMS' 12-POINT BOX ♦ "SUPERRENCHES"

Selected Alloy Steel
15° ANGLE SHORT OFFSET PATTERN

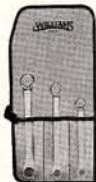


Drop-forged from Selected Alloy Steel, heat-treated, chrome-plate over nickel, heads bright.

No.	Nominal Openings	Amer. Std. Heavy Nuts (USS); Size Bolts	Amer. Std. Hex Head Cap Screws; Diam. Screws	Amer. Std. Light Nuts (SAE); Size Bolts	Amer. Std. Regular Nuts; Size Bolts	Ex-treme Length, Approx.	Pack-aged Qty.
6723	3/8 & 7/16		3/16 & 1/4	1/4	1/4	4 1/2	6
6725	7/16 & 1/2	1/4	1/4 & 5/16	1/4 & 5/16	1/4	5 1/2	6
6725A	7/16 & 9/16		1/4 & 3/8	1/4 & 3/8	1/4 & 5/16	5 1/2	6
6725B	1/2 & 9/16	1/4	5/16 & 3/8	5/16 & 3/8	5/16	5 1/2	6
6025	1/2 & 19/32	1/4 & 5/16	5/16	5/16		5 1/2	6
6727	9/16 & 5/8		3/8 & 7/16	3/8 & 7/16	5/16 & 3/8	6	6

WILLIAMS' 12-POINT BOX ♦ "SUPERRENCH" SETS

Selected Alloy Steel



SET No. 6703

In Leatherette Roll
In Cardboard Box
Weight, .44 Lb.

CONTENTS

No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.)	Amer. Std. Hex Head Cap Screws	Amer. Std. Light Nuts (S.A.E.)	Amer. Std. Regular Nuts	Length Approx.
6723	3/8 & 7/16		3/16 & 1/4	1/4	1/4	4 1/2
6725	7/16 & 1/2	1/4	1/4 & 5/16	1/4 & 5/16	1/4	5 1/2
6727	9/16 & 5/8		3/8 & 7/16	3/8 & 7/16	5/16 & 3/8	6

♦ REGISTERED TRADE MARK

WILLIAMS' 12-POINT BOX ♦ "SUPERRENCHES"

Selected Alloy Steel

15° ANGLE LONG OFFSET PATTERN



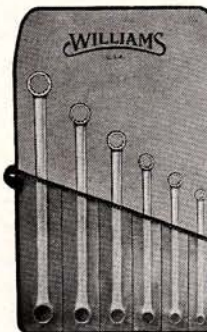
Thin head walls permit use where clearance is extremely limited. The openings grip hex nuts on six sides, preventing all slipping and rounding of the nuts' corners. Hex nuts can be completely rotated where the swing of the wrench is limited to 30°.

Drop-forged from Selected Alloy Steel, heat-treated, chrome-plate over nickel, heads bright.

No.	Nominal Openings	Amer. Std. Heavy Nuts (USS); Size Bolts	Amer. Std. Hex Head Cap Screws; Diam. Screws	Amer. Std. Light Nuts (SAE); Size Bolts	Amer. Std. Regular Nuts; Size Bolts	Ex-treme Length, Approx.	Pack-aged Qty.
7723	3/8 & 7/16		3/16 & 1/4	1/4	1/4	7 3/8	6
7023	7/16 & 1/2	1/4	1/4 & 5/16	1/4 & 5/16	1/4	7 3/8	6
7725	1/2 & 9/16	1/4	5/16 & 3/8	5/16 & 3/8	5/16	7 3/8	6
7725A	1/2 & 19/32	1/4	5/16	5/16		7 3/8	6
7725B	9/16 & 5/8		3/8 & 7/16	3/8 & 7/16	5/16 & 3/8	7 3/8	6
7025	1/2 & 19/32	1/4	5/16	5/16		7 3/8	6
7727	9/16 & 5/8		3/8 & 7/16	3/8 & 7/16	5/16 & 3/8	7 3/8	6
7027	9/16 & 5/8		3/8 & 7/16	3/8 & 7/16	5/16 & 3/8	7 3/8	6
7727A	11/16 & 3/4		7/16 & 1/2	7/16 & 1/2	7/16	10 1/2	6
7729	11/16 & 3/4		7/16 & 1/2	7/16 & 1/2	7/16	10 1/2	6
7029B	11/16 & 3/4		7/16 & 1/2	7/16 & 1/2	7/16	10 1/2	6
7029	11/16 & 3/4		7/16 & 1/2	7/16 & 1/2	7/16	10 1/2	6
7729A	13/16 & 7/8		9/16 & 5/8	9/16 & 5/8	9/16	12	6
7030	13/16 & 7/8		9/16 & 5/8	9/16 & 5/8	9/16	12	6
7731A	13/16 & 7/8		9/16 & 5/8	9/16 & 5/8	9/16	12	6
7031B	13/16 & 7/8		9/16 & 5/8	9/16 & 5/8	9/16	12	6
7031	13/16 & 7/8		9/16 & 5/8	9/16 & 5/8	9/16	12	6
7731B	15/16 & 1		1 1/8 & 5/8	1 1/8 & 5/8	1 1/8	12	6
7033A	15/16 & 1		1 1/8 & 5/8	1 1/8 & 5/8	1 1/8	13 3/4	6
7733	15/16 & 1		1 1/8 & 5/8	1 1/8 & 5/8	1 1/8	13 3/4	6
7033C	15/16 & 1		1 1/8 & 5/8	1 1/8 & 5/8	1 1/8	13 3/4	6
7034	15/16 & 1		1 1/8 & 5/8	1 1/8 & 5/8	1 1/8	15 1/2	6
7034A	15/16 & 1		1 1/8 & 5/8	1 1/8 & 5/8	1 1/8	15 1/2	6
7735	1 1/8 & 1 1/16		1 1/8 & 5/8	1 1/8 & 5/8	1 1/8	17 1/4	6
7735A	1 1/8 & 1 1/16		1 1/8 & 5/8	1 1/8 & 5/8	1 1/8	17 1/4	6
7037	1 1/8 & 1 1/16		1 1/8 & 5/8	1 1/8 & 5/8	1 1/8	17 1/4	6
7037A	1 1/8 & 1 1/16		1 1/8 & 5/8	1 1/8 & 5/8	1 1/8	19	6
7039B	1 1/4 & 1 1/8		1 1/4 & 5/8	1 1/4 & 5/8	1 1/4	19	6
7039	1 1/4 & 1 1/8		1 1/4 & 5/8	1 1/4 & 5/8	1 1/4	19	6
7039A	1 1/4 & 1 1/8		1 1/4 & 5/8	1 1/4 & 5/8	1 1/4	19	6
7040B	1 1/4 & 1 1/8		1 1/4 & 5/8	1 1/4 & 5/8	1 1/4	21	1
7041	1 1/4 & 1 1/8		1 1/4 & 5/8	1 1/4 & 5/8	1 1/4	23	1
7742B	1 1/2 & 1 1/4		1 1/2 & 5/8	1 1/2 & 5/8	1 1/2	23	1

WILLIAMS' 12-POINT BOX ♦ "SUPERRENCH" SETS

Selected Alloy Steel



SET No. 7006

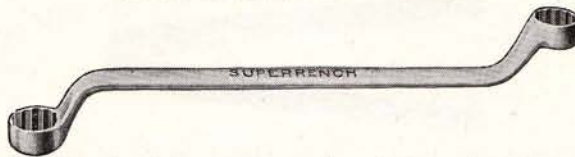
In Leatherette Roll
In Cardboard Box

Weight, 3.4 Lbs.

CONTENTS

No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.)	Amer. Std. Hex Head Cap Screws	Amer. Std. Light Nuts (S.A.E.)	Amer. Std. Regular Nuts	Length Approx.
7723	3/8 & 7/16		3/16 & 1/4	1/4	1/4	7 3/8
7025	7/16 & 1/2	1/4	1/4 & 5/16	1/4 & 5/16	1/4	8 1/4
7727	1/2 & 9/16	1/4	5/16 & 3/8	5/16 & 3/8	5/16	9 1/4
7029	1/2 & 19/32	1/4	5/16	5/16		10 1/2
7731A	9/16 & 5/8		3/8 & 7/16	3/8 & 7/16	5/16 & 3/8	12
7033C	9/16 & 5/8		3/8 & 7/16	3/8 & 7/16	5/16 & 3/8	13 3/4

WILLIAMS'
12-POINT BOX "SUPERRENCHES"
 Selected Alloy Steel
 DOUBLE OFFSET PATTERNS



Thin head walls permit use where clearance is extremely limited. The openings grip hex nuts on six sides, preventing all slipping and rounding of the nuts' corners. The Long Pattern provides unusual reach and leverage.

Drop-forged from Selected Alloy Steel, heat-treated, chrome-plate over nickel, heads bright. Nos. 8040B through 8053, Baked Gray enamel. Supplied in Whitworth Standard and Metric sizes also; information on request.

No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.)	Amer. Std. Hex Hd. Cap Screws	Amer. Std. Light Nuts (S.A.E.)	Amer. Std. Regl. Nuts; Size Bolts	Ex-treme Length, Approx.	Pack-aged Qty.
LONG PATTERN—Different Opening in Each Head							
8021	5/16 & 1/2	3/8 & 1/2	1/2 & 3/4	1/2 & 3/4	1/2 & 3/4	7 1/4	6
8023	3/8 & 1/2	3/8 & 1/2	1/2 & 3/4	1/2 & 3/4	1/2 & 3/4	7 3/4	6
8025	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	8 1/4	6
8025A	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	8 1/4	6
8025B	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	8 3/4	6
8025	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	8 3/4	6
8027	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	9 3/4	6
8027A	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	11	6
8027B	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	11	6
8029	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	11	6
8029A	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	11	6
8029B	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	11	6
8029	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	11	6
8029A	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	12 1/2	6
8030	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	12 1/2	6
8031	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	12 1/2	6
8031A	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	12 1/2	6
8031B	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	12 1/2	6
8031	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	12 1/2	6
8031A	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	12 1/2	6
8031B	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	12 1/2	6
8033A	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	13 1/2	6
8033	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	13 1/2	6
8033C	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	14 1/2	6
8034	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	15 1/2	6
8034A	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	15 1/2	6
8035	1 & 1 1/8	1 & 1 1/8	1 1/8 & 1 1/4	1 1/8 & 1 1/4	1 1/8 & 1 1/4	17	6
8035A	1 & 1 1/8	1 & 1 1/8	1 1/8 & 1 1/4	1 1/8 & 1 1/4	1 1/8 & 1 1/4	17	6
8037	1 1/8 & 1 1/4	1 1/8 & 1 1/4	1 1/4 & 1 1/2	1 1/4 & 1 1/2	1 1/4 & 1 1/2	19	6
8037A	1 1/8 & 1 1/4	1 1/8 & 1 1/4	1 1/4 & 1 1/2	1 1/4 & 1 1/2	1 1/4 & 1 1/2	19	6
8039B	1 1/4 & 1 1/2	1 1/4 & 1 1/2	1 1/2 & 1 3/4	1 1/2 & 1 3/4	1 1/2 & 1 3/4	19	6
8039	1 1/4 & 1 1/2	1 1/4 & 1 1/2	1 1/2 & 1 3/4	1 1/2 & 1 3/4	1 1/2 & 1 3/4	19	6
8039A	1 1/4 & 1 1/2	1 1/4 & 1 1/2	1 1/2 & 1 3/4	1 1/2 & 1 3/4	1 1/2 & 1 3/4	19	6
FOR HEAVY SERVICE—LONG PATTERN—Round Handle							
8040B	1 1/2 & 2	1 1/2 & 2	2 & 2 1/4	2 & 2 1/4	2 & 2 1/4	21	1
8041	1 1/2 & 2	1 1/2 & 2	2 & 2 1/4	2 & 2 1/4	2 & 2 1/4	23	1
8042B	1 1/2 & 2	1 1/2 & 2	2 & 2 1/4	2 & 2 1/4	2 & 2 1/4	23	1
8045	2 & 2 1/4	2 & 2 1/4	2 1/4 & 2 3/4	2 1/4 & 2 3/4	2 1/4 & 2 3/4	25	1
8049	2 1/4 & 2 3/4	2 1/4 & 2 3/4	2 3/4 & 3	2 3/4 & 3	2 3/4 & 3	27	1
8053	2 3/4 & 3	2 3/4 & 3	3 & 3 1/4	3 & 3 1/4	3 & 3 1/4	30	1
SHORT PATTERN—Different Opening in Each Head							
9723	3/8 & 1/2	3/8 & 1/2	1/2 & 3/4	1/2 & 3/4	1/2 & 3/4	4 1/2	6
9725	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	5	6
9725A	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	5 1/2	6
9725B	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	5 1/2	6
9025	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	5 1/2	6
9727	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	6	6

WILLIAMS'
12-POINT BOX "SUPERRENCH" SETS
 Selected Alloy Steel
 SET No. 9703
 In Leatherette Roll
 In Cardboard Box
 Weight, .44 Lb.
 CONTENTS



No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.)	Amer. Std. Hex Hd. Cap Screws	Amer. Std. Light Nuts (S.A.E.)	Amer. Std. Regl. Nuts	Length Approx.
9723	3/8 & 1/2	3/8 & 1/2	1/2 & 3/4	1/2 & 3/4	1/2 & 3/4	4 1/2
9725	1/2 & 3/4	1/2 & 3/4	3/4 & 1	3/4 & 1	3/4 & 1	5 1/2
9727	3/4 & 1	3/4 & 1	1 & 1 1/8	1 & 1 1/8	1 & 1 1/8	6

★ REGISTERED TRADE MARK

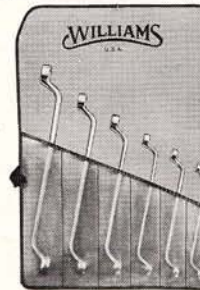
WILLIAMS'
12-POINT BOX "SUPERRENCH" SETS
 Selected Alloy Steel

SET No. 8005A
 In Cardboard Box
 Weight, 10.6 Lbs.



CONTENTS

No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.)	Amer. Std. Hex Head Cap Screws	Amer. Std. Light Nuts (S.A.E.)	Length Approx.
8025	1/2 & 19/32	1/4 & 5/16	5/16	5/16	8 3/4
8029	11/16 & 25/32	3/8 & 7/16	3/8	3/8	11
8033A	7/8 & 15/16	1/2 & 9/16	5/8	9/16 & 5/8	13 1/2
8037	1 1/16 & 1 1/4	5/8 & 3/4	3/4	3/4 & 7/8	17
8041	1 7/16 & 1 5/8	7/8 & 1	7/8	1 & 1 1/8	23

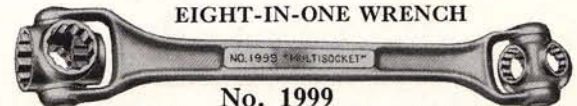


SET No. 8006
 In Leatherette Roll
 In Cardboard Box
 Weight, 3.4 Lbs.

CONTENTS

No.	Nominal Openings	Amer. Std. Heavy Nuts (U.S.S.)	Amer. Std. Hex Head Cap Screws	Amer. Std. Light Nuts (S.A.E.)	Amer. Std. Regular Nuts	Length Approx.
8723	3/8 & 7/16		3/16 & 1/4	1/4	1/4	7 3/4
8025	1/2 & 19/32	1/4 & 5/16	5/16	5/16		8 3/4
8727	9/16 & 5/8		3/8 & 7/16	3/8 & 7/16	5/16 & 3/8	9 3/4
8029	11/16 & 25/32	3/8 & 7/16				11
8731A	3/4 & 7/8	1/2	1/2 & 5/8	1/2 & 9/16	7/16 & 9/16	12 1/2
8033C	15/16 & 1	9/16	3/4	5/8	5/8	14 1/2

WILLIAMS' NEW "MULTISOCKET"
EIGHT-IN-ONE WRENCH



No. 1999
 8 Different 12-Point Openings
 Small Head; 7/16, 1/2, 9/16, 19/32"
 Large Head; 5/8, 11/16, 3/4, 7/8"
 Weight, .94 Lbs.

The openings grip hex nuts on six sides; no slipping or rounding of the nuts' corners.

Swivel heads, with index spring to retain working opening in position for use, permit handle to be operated at practically any angle desired. Can be used as a socket wrench.

The entire wrench is drop-forged, heat-treated and finished in chrome-plate. Length, 10 inches. Individually packaged.

WILLIAMS'
GENERAL PURPOSE UTILITY SET
 SET No. APS-3
 Complete in Leatherette Roll
 or Cardboard Box
 Total Weight, 1.3 Lbs.

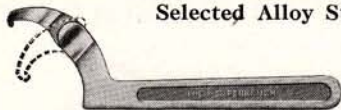
An ideal set for numerous small jobs around home and office. Also for general automobile use. Convenient size for glove compartment.

Contains one each No. 24 4" Screw Driver with plastic handle, 8 in. "Super-adjustable" Wrench and No. 6 6" Combination Slip-joint Pliers.



WILLIAMS' ADJUSTABLE HOOK SPANNERS

Selected Alloy Steel



These Spanners are drop-forged from Selected Alloy Steel, heat-treated and chrome-plated, face of jaw and raised part of handle buffed bright.

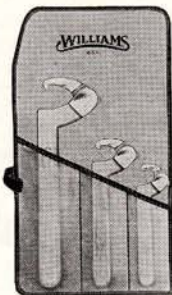
Sold individually, or in Set No. 1400.

SET No. 1400

In Leatherette Roll

In Cardboard Box

Weight, 1.8 Lbs.

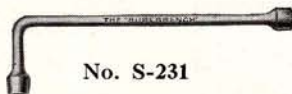


No.	Capacity for Circles, Diameter	Extreme Length, Approx.	Thickness		Depth Hook	Packaged Quan.
			Handle	Hook		
1471	3/4 to 2	6 3/8	1/4	11/32	1/8	6
1472	1 1/4 to 3	8 1/8	9/32	13/32	5/32	6
1474	2 to 4 3/4	11 3/8	5/16	15/32	3/16	6

♦“SUPERRENCH”

Selected Alloy Steel

For Ford V-8 60 H.P. Connecting Rods



No. S-231

Length, 11-1/2" Offset, 3"

Weight, 1.1 Lbs.

Heat-treated and Chrome-plated

Spin nuts until engaged (short arm for lever); reverse wrench and tighten (long arm for lever).

6-Point Openings, 7/16 and 7/16". Special thin design sockets to handle clearance problem on all Ford V-8 60 H.P. motor, 1937-'40. Packaged 6 to a box.

♦“SUPERRENCH”

Selected Alloy Steel

For Adjusting Ford Mechanical Brakes



No. 1984-X

7/16 and 1/2" 8-Point Openings

Length, 11-1/4" Thickness Heads, 7/16"

Weight, .53 Lb.

Heat-treated and Chrome-plated

The only wrench required for adjusting brakes on Ford "A", "B", all V-8, 1932-'38; also Ford "AA" and all V-8 trucks, 1932-'38. Packaged 6 to a box.

♦“SUPERRENCH”

Selected Alloy Steel

For Eccentric Adjustments



No. 1983

Openings 3/16 & 1/4", Length 9", Thickness Heads 1/4"

Weight, .15 Lb.

Heat-treated and Chrome-plated

For Eccentric Cam, Lockheed, Hydraulic and Bendix mechanical brakes. Packaged 6 to a box.

♦ REGISTERED TRADE MARK

WILLIAMS' ♦“SUPERIOR” ADJUSTABLE FACE SPANNERS

Carbon Steel



Drop-forged from a strong, tough grade of carefully selected steel, this is a desirable and dependable tool for service where Center to Center dimensions vary.

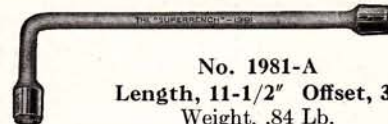
These Wrenches have pins milled, surfaces smooth, hardened, black enameled (baked on).

No.	Extreme Capacity	Extreme Length, Approx.	Diameter of Pins	Packaged Quantity	No.
482	2	6 3/8	3/16	6	482
483	3	8 1/4	1/4	6	483
484	4	10 3/8	5/16	6	484

♦“SUPERRENCH”

Selected Alloy Steel

For Ford V-8, 6 and Mercury Connecting Rods



No. 1981-A

Length, 11-1/2" Offset, 3"

Weight, .84 Lb.

Heat-treated and Chrome-plated

Spin nuts until engaged (short arm for lever); reverse wrench and tighten (long arm for lever).

6-Point Openings, 9/16 and 9/16". Special thin design sockets to handle clearance problem on all Ford 6, all Ford V-8 (except 60 H.P.) and all Mercury connecting rod nuts. Very handy for manifold nuts and valve cap covers. Also useful for the connecting rod nuts on other automobiles.

Packaged 6 to a box.

♦“SUPERRENCH”

Selected Alloy Steel

For Star Nut, Etc. and all Bendix Hydraulic



No. 1998-B

Blade Tips, 5/64 x 15/32"

Length, 8"

Weight, .19 Lb.

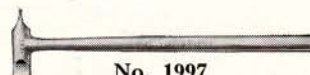
Heat-treated and Chrome-plated. Specially offset to service Star Nut Eccentric and all Bendix Hydraulic.

Packaged 6 to a box.

♦“SUPERRENCH”

Selected Alloy Steel

For Slotted Anchor Pins, Etc.



No. 1997

Length, 6"

Blade Tips, 1/16 x 13/32"

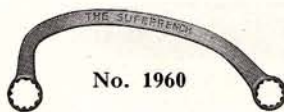
Weight, .18 Lb.

Heat-treated and Chrome-plated

For slotted anchor pins, drag links, steering post and other jobs where regular screw drivers cannot be used. Also excellent as a glaziers' tool. Packaged 6 to a box.

♦“SUPERRENCH”

Selected Alloy Steel
For Starter and Manifold Nuts



9/16 and 5/8"
12-Point Openings
Length, 7"
Weight, .21 Lb.

Heat-treated and Chrome-plated

For starter and manifold nuts, all models Chrysler and Dodge; DeSoto and Plymouth. Also very useful for starters and manifolds on many other passenger automobiles.

Packaged 6 to a box.

♦“SUPERRENCH”

Selected Alloy Steel

For Chevrolet Starter Nuts

5/8 and 3/4"
12-Point Openings
Length, 7-1/2"
Weight, .34 Lb.

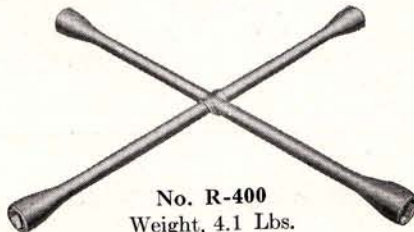


Heat-treated and Chrome-plated

For starter nuts, all Chevrolet models, 1930-'48. Also very useful for starters on many other passenger automobiles.

Packaged 6 to a box.

WILLIAMS' FOUR-WAY RIM WRENCH



No. R-400
Weight, 4.1 Lbs.

With hexagon socket openings 3/4, 3/4, 13/16 and 7/8". Williams Four-Way Rim Wrench will service wheels on all popular passenger cars and light trucks. Overall arm lengths of 20" offer ample clearance and leverage. Made of selected steel—finish, chrome-color enamel.

WILLIAMS' WHEEL PULLER No. 5

FOR REFRIGERATION SERVICE

The body, forged from high tensile steel, has four sockets into which either two or all three of the arms may be placed in various positions, providing a combination of grips. Flywheels with even or odd numbers of spokes are pulled with equal ease. All three arms are necessary for odd-spoked wheels, while only two are needed for an even number of spokes. The pulling capacity is 7" diameter. Arms, processed from alloy steel, are held in place by an endless spring. They are instantly reversible by merely turning the arm in the socket.



No.	Capacity Diam.	Body Diam.	Length Arms	Packaged Quantity	Extra Parts		
5	7	3 1/4	4 1/4	1	Arms	Screw	Spring

♦REGISTERED TRADE MARK

WILLIAMS' PISTON RING COMPRESSOR

For Piston Diameters, 2-1/2 to 5 Inches

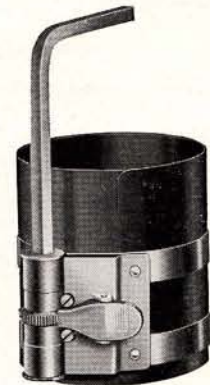
No. RC-50
Weight, .69 Lb.

Williams Ring Compressor has a 3-1/2" high compression band of highest grade clock-spring steel. It takes all rings at one time, including skirt ring on Pontiac, Ford, Hudson, etc.

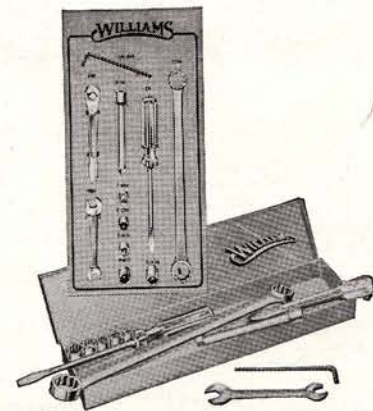
Two tension bands eliminate flare-out at bottom when rings leave the compressor. With beaded edge the compressor cannot enter the cylinder with the piston.

Hardened ratchet is operated with a 1/4" square offset key wrench. Double friction brake adjustment provides additional control. The self-locking ratchet pawl is made of oil tempered spring steel.

Individually packaged, operating instructions included.



WILLIAMS' AUTOMATIC TRANSMISSION SETS



No. ATS-1
Steel Case,
1-3/8 x 3-1/2 x 14-1/4"
Total Weight, 3.8 Lbs.

No. ATS-2
Plywood Panel,
1/2 x 9-1/2 x 19"
Total Weight, 4.5 Lbs.

These sets were designed to facilitate oil-change work on automatic transmissions such as Hydra-Matic, Dyna-Flo, Power Glide, Ultramatic, Fluid Drive and Studebaker Automatic transmissions. Set may be purchased in metal case or plywood panel as illustrated.

Contents — either set

Quan.	No.	Description	Use
1	B-409	Socket, 9/32" Sq. Opening.	Torque Converter Drain Plug (Dynaflow)
1	B-1214	Socket, 7/16" 12 Pt. Openg.	Hydramatic Fluid Coupling Drain Plug
1	B-1216	Socket, 1/2" 12 Pt. Opening	Flywheel Cover Bolts
1	B-1218	Socket, 9/16" 12 Pt. Openg.	Flywheel Cover Bolts
1	B-1220	Socket, 5/8" 12 Pt. Opening	For Hex Head Converter Drain Plug (Studebaker)
1	B-110	Extension.....	3/8" male for (Power Glide) Housing Plug
1	B-51	Reversible Ratchet.....	3/8" male for (Power Glide) Housing Plug
1	26	6" Rd. Blade Screw Driver.	For Rotating Flywheels
1	7733	15° Offset Box Wrench—7/8 & 1" Openings.....	For Dynaflow Transmission Oil Pan Plug
1	A1725	Open End Wrench—7/16 & 1/2" Openings	For Transmission Pipe Plug
1	3/16"	Hexagon Key Wrench—4-1/2" long	For old type Fluid Coupling Drain Plug (Hydramatic)

WILLIAMS' POWER AUGER BITS



Style 100

Williams Power Auger Bits can be operated at high speeds in all electric drills having 1/4-inch or larger chuck capacity. Hexagon shanks prevent bits from slipping in the chuck. Cutting edges are keen and uniformly hardened for accurate performance in boring hard and soft woods, including plywoods, regardless of knots and grain.

Wood workers, patternmakers, carpenters, farmers, house owners, electricians, plumbers, maintenance men, boat builders, hobbyists, cabinet shops, contractors, etc., all use Williams Power Auger Bits.

Size	Extreme Length	Packaged Quantity
3/8"	5 1/4	1
1/2"	5 1/4	1
5/8"	5 1/4	1
3/4"	5 1/4	1
7/8"	5 1/4	1
1"	5 1/4	1

WILLIAMS' POWER AUGER BIT SET



SET No. 106

6 Pieces — Packed in Clear Plastic Tube

Total Weight, 1/2 Lb.

CONTENTS

1 each 3/8, 1/2, 5/8, 3/4, 7/8, and 1" Williams Style 100 Power Auger Bits.

WILLIAMS MASONRY DRILLS

Carbon-Tipped Spiral Flute



Style 300

Williams Carbide Tipped Masonry Drills easily and quietly penetrate concrete, cement, brick, slate, marble, stone and all types of masonry materials. They produce clean, sharp-edged, accurate holes. For best results use slowest speed available and maintain heavy pressure. For rotary drilling only in electric drills, drill presses, rotary impact tools and hand braces. Tipped diameters are oversize to provide for clearance in installing anchors, expansion shields and toggle bolts.

Individually packed in cardboard tubes, sharpening instructions included.

Nominal Diameter	Actual Diameter	Extreme Length	Shank Diameter	Shank Length	Packaged Quantity
1/8	.130	2 1/2	1/8	.....	1
3/16	.198	3	3/16	.....	1
1/4	.260	4	1/4	.....	1
5/16	.328	4	1/4	1 1/2	1
3/8	.390	4	1/4	1 1/2	1
7/16	.458	6	1/4	1 5/8	1
1/2	.525	6	3/8	1 5/8	1
9/16	.587	6	3/8	1 5/8	1
5/8	.650	6	1/2	1 5/8	1
11/16	.713	6	1/2	1 5/8	1
3/4	.775	6	1/2	1 5/8	1
7/8	.905	6	1/2	1 5/8	1
1	1.030	6	1/2	1 5/8	1
1 1/8	1.160	6	1/2	1 5/8	1
1 1/4	1.285	10	1/2	1 5/8	1
1 1/2	1.535	10	1/2	1 5/8	1

WILLIAMS' SCREW EXTRACTORS

For Quick Removal of Screws, Studs, and Pipe Fittings



Style 200

Quick, easy removal of broken screws, bolts, studs or other threaded forms without injury to the tapped threads can best be accomplished with Williams Screw Extractors. A hole is first drilled into the broken stem and the correct size Williams Extractor is then inserted. By twisting to the left, the extractor will grip firmly into the wall of the drilled hole. Continued twisting action will back out the imbedded stem with minimum effort.

Williams Screw Extractors are used in all types of automotive repair shops, garages, service stations, car and truck dealers, etc.

Individually packed in cardboard envelopes.

* Sizes given in these columns are recommended for normal conditions. Unusual conditions will require the use of other sizes of drills and extractors depending on the length of the broken section and its depth in the hole. In general, use the largest possible screw extractor.

Extractor No.	* For Use on Screw Sizes	For Use on Pipe Sizes	Diam. Small End	Diam. Large End	Lgth. of Flute	Extreme Lgth.	*Size Drill to Use	Packaged Qty.
1	Nos. 8 & 10	.....	.054	5/32	13/16	2	5/64	1
2	No. 12 & 1/4	.....	.080	3/16	7/8	2 1/2	7/64	1
3	5/16	.....	1/8	1/4	1	2 3/4	5/32	1
4	3/8	1/8	3/16	11/32	1 1/4	3	1/4	1
5	7/16, 1/2, 5/8	1/2 & 1/4	15/64	7/16	1 5/8	3 3/8	17/64	1
6	5/8	3/8	3/8	19/32	1 3/4	3 3/4	13/32	1
7	3/4, 7/8, 1	1/2	1/2	3/4	2	4 1/8	17/32	1
8	1 1/8, 1 1/4	3/4	3/4	1	2	4 3/8	13/16	1
9	1 1/2	1	1	1 9/32	2 1/4	4 5/8	1 1/16	1

WILLIAMS' SCREW EXTRACTOR SETS



SET No. 205

5 Pieces Complete with Maple Block Stand
Packed in Cardboard Box
Total Weight, 1/2 Lb.

CONTENTS

1 each Williams Screw Extractors Nos. 1, 2, 3, 4 & 5.

Extractors in this set will remove broken screws 9/16" and smaller.



SET No. 206

6 Pieces Complete with Maple Block Stand
Packed in Cardboard Box
Total Weight, 5/8 Lb.

CONTENTS

1 each Williams Screw Extractors Nos. 1, 2, 3, 4, 5, 6.

Extractors in this set will remove broken screws 5/8" and smaller.

WILLIAMS' HIGH SPEED DRILLS

Straight Shank — Jobbers' Length



Style H-400

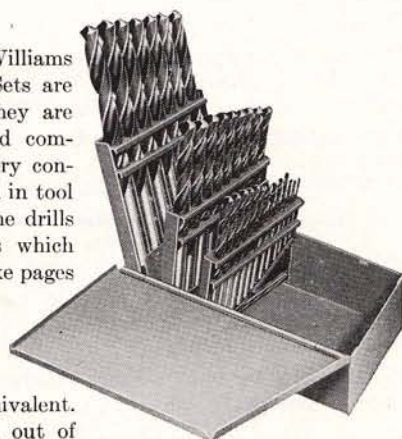
Williams High Speed Drills are suitable for all general purposes. They have bright finished margins and shanks, black flutes and black lands. Only High Speed Drills should be used for electric or other portable drilling, or in machines operating at high speeds. Fast cutting speeds will not affect their hardness.

Diameter	Decimal Equivalent	Length Overall	Length of Twist	Packaged Quantity
1/64	.0156	3/4	3/16	12
1/32	.0312	1 3/8	1/2	12
3/64	.0469	1 3/4	3/4	12
1/16	.0625	1 7/8	7/8	12
5/64	.0781	2	1	12
3/32	.0937	2 1/4	1 1/4	12
7/64	.1094	2 5/8	1 1/2	12
1/8	.1250	2 3/4	1 5/8	12
9/64	.1406	2 7/8	1 3/4	12
5/32	.1562	3 1/8	2	12
11/64	.1719	3 1/4	2 1/8	12
3/16	.1875	3 1/2	2 5/16	12
13/64	.2031	3 5/8	2 7/16	12
7/32	.2187	3 3/4	2 1/2	12
15/64	.2344	3 7/8	2 5/8	12
1/4	.2500	4	2 3/4	12
17/64	.2656	4 1/8	2 7/8	12
9/32	.2812	4 1/4	2 15/16	12
19/64	.2969	4 3/8	3 1/16	6
5/16	.3125	4 1/2	3 3/16	6
21/64	.3281	4 5/8	3 5/16	6
11/32	.3437	4 3/4	3 7/16	6
23/64	.3594	4 7/8	3 1/2	6
3/8	.3750	5	3 5/8	6
25/64	.3906	5 1/8	3 3/4	6
13/32	.4062	5 1/4	3 7/8	6
27/64	.4219	5 3/8	3 15/16	6
7/16	.4375	5 1/2	4 1/16	6
29/64	.4531	5 5/8	4 3/16	6
15/32	.4687	5 3/4	4 5/16	6
31/64	.4844	5 7/8	4 3/8	6
1/2	.5000	6	4 1/2	6

WILLIAMS' HIGH SPEED DRILL SETS

Straight Shank — Jobbers' Length

The cases for Williams High Speed Drill Sets are made of steel. They are sturdy, durable and compact. They can very conveniently be carried in tool boxes and kits. The drills are held in panels which fold into the case like pages in a book. Each compartment is properly marked with drill size and its decimal inch equivalent. Drills will not fall out of place.



Set Number			No. of Drills	Drill Sizes	Size of Case
With Drills in Folding Case	Drills Only	Folding Case Only			
21-H13	21	H-13	13	1/16 to 1/4 by 64ths	11/16 x 2 x 4 5/8
4B-H21	4B	H-21	21	1/16 to 3/8 by 64ths	1 x 4 x 6
5B-H29	5B	H-29	29	1/16 to 1/2 by 64ths	1 5/8 x 4 x 7
6B-H15	6B	H-15	15	1/16 to 1/2 by 32nds	1 3/16 x 4 x 7

WILLIAMS' HIGH SPEED DRILL DISPENSER



GLASS COVERED — THEFT PROOF — CONVENIENT

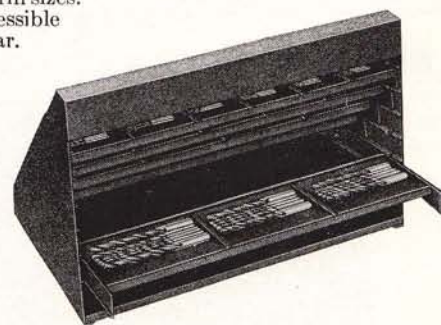
Drills should be placed on display wherever they are sold over the counter. This dispenser is the one most suitable for this purpose.

Now drills can be displayed without fear of theft. The front is double-strength glass, built into a steel case. Access to contents can only be gained from the back. The glass protects the drills from dust, helps preserve the original finish and removes any temptation to rifle any of the contents.

The case is made of steel and is lacquered deep maroon. Dimensions are 20" wide, 13" deep, and 13" high. Convenient compartments hold 21 of the most popular sizes of Straight Shank Jobber Drills. An added feature is the drill gauge for identifying drill sizes.

Drills are accessible only from the rear.

There are five individual tiers, each in the form of a drawer. These drawers can be pulled back, as illustrated, or can be completely removed. There are no complicated attachments to unlock in order to gain access to contents. In the rear of the case there is ample room for storing additional sizes and quantities. This dispenser is both a display and storage case.



No. 176HBC H.S. Drill Assortment with Dispenser
No. 176HB H.S. Drill Assortment Only
No. 176H Dispenser Only

CONTENTS OF H.S. DRILL ASSORTMENT

Diameter	Quantities	Decimal Equivalent	Length Overall	Length of Twist
1/16	12	.0625	1 7/8	7/8
5/64	6	.0781	2	1
3/32	12	.0937	2 1/4	1 1/4
7/64	6	.1094	2 5/8	1 1/2
1/8	12	.1250	2 3/4	1 5/8
9/64	6	.1406	2 7/8	1 3/4
5/32	12	.1562	3 1/8	2
11/64	6	.1719	3 1/4	2 1/8
3/16	12	.1875	3 1/2	2 5/16
13/64	6	.2031	3 5/8	2 7/16
7/32	12	.2187	3 3/4	2 1/2
15/64	6	.2344	3 7/8	2 5/8
1/4	12	.2500	4	2 3/4
17/64	6	.2656	4 1/8	2 7/8
9/32	6	.2812	4 1/4	2 15/16
5/16	6	.3125	4 1/2	3 3/16
11/32	6	.3437	4 3/4	3 7/16
3/8	6	.3750	5	3 5/8
13/32	3	.4062	5 1/4	3 7/8
7/16	3	.4375	5 1/2	4 1/16
1/2	3	.5000	6	4 1/2

WILLIAMS' FEELER GAUGES

.0015

Nos. G-0015 to G-040

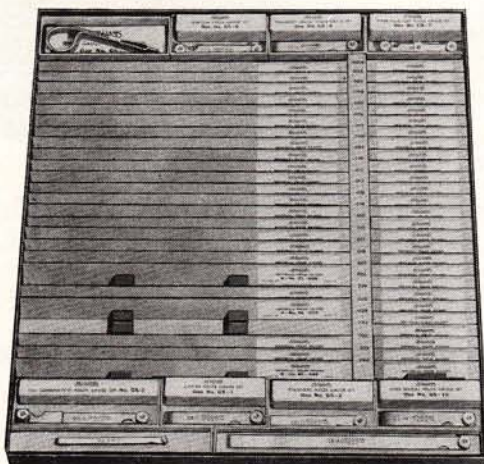
.008

Nos. GL-0015 to GL-040

All blades are made from selected Swedish Steel properly tempered. Each blade is electro-etched with its decimal size and is treated with rust resistant oil.

Blade Thickness	3-1/2" Lengths		12" Lengths	
	Number	Packaged Quantity	Number	Packaged Quantity
.0015	G-0015	6	GL-0015	6
.002	G-002	6	GL-002	6
.003	G-003	6	GL-003	6
.004	G-004	6	GL-004	6
.005	G-005	6	GL-005	6
.006	G-006	6	GL-006	6
.007	G-007	6	GL-007	6
.008	G-008	6	GL-008	6
.009	G-009	6	GL-009	6
.010	G-010	6	GL-010	6
.011	G-011	6	GL-011	6
.012	G-012	6	GL-012	6
.013	G-013	6	GL-013	6
.014	G-014	6	GL-014	6
.015	G-015	6	GL-015	6
.016	G-016	6	GL-016	6
.017	G-017	6	GL-017	6
.018	G-018	6	GL-018	6
.020	G-020	6	GL-020	6
.022	G-022	6	GL-022	6
.024	G-024	6	GL-024	6
.025	G-025	6	GL-025	6
.028	G-028	6	GL-028	6
.030	G-030	6	GL-030	6
.032	G-032	6	GL-032	6
.035	G-035	6	GL-035	6
.040	G-040	6	GL-040	6

WILLIAMS' FEELER GAUGE DISPENSER



No. GD-326

Total Weight, 9.5 Lbs.

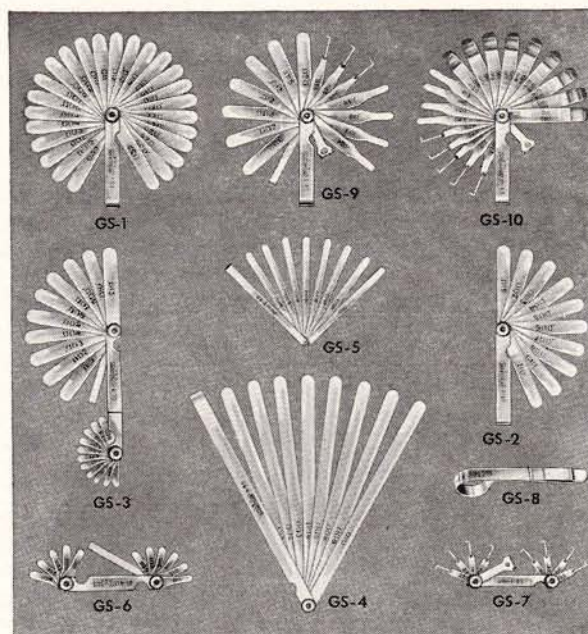
Here is the most effective means yet devised for counter display selling of Feeler Gauges. This dispenser is carefully constructed of wood and heavy cardboard and is built to last. Built-in easel construction on bottom allows display to be tilted forward.

Blade stock in 3-1/2 and 12" lengths fit into slots which are properly marked with decimal thickness. In this way blade selection is made quickly and easily.

CONTENTS

- 2 each All Sets Nos. GS-1 to GS-10 inclusive.
- 6 each All 3-1/2" Blades Nos. G-0015 to G-040 inclusive.
- 6 each All 12" Blades Nos. GL-0015 to GL-040 inclusive.

WILLIAMS' FEELER GAUGE SETS



Sets have knurled lock-nuts which allows the user to select the required blade size and then lock it into position.

SET No. GS-1 Master Feeler Gauge. 25 Blades 3-1/2" long in the following thicknesses—.0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032 and .035.

SET No. GS-2 Standard Feeler Gauge. 10 Blades 3-1/2" long in the following thicknesses—.002, .003, .004, .005, .006, .007, .008, .010, .012 and .015.

SET No. GS-3 Combination Feeler Gauge. 10 Blades 3-1/2" long in the following thicknesses—.002, .003, .004, .005, .006, .007, .008, .010, .013, .015; 11 Fingers in the following thicknesses—.012, .013, .014, .015, .018, .020, .022, .024, .025, .028, .032 and file.

SET No. GS-4 Piston Feeler Gauge. 8 Blades 9" long in the following thicknesses—.002, .003, .004, .005, .006, .008, .010 and .015.

SET No. GS-5 Brake Feeler Gauge. 9 Blades 4" long in the following thicknesses—.002, .004, .005, .006, .007, .008, .010, .012 and .015.

SET No. GS-6 Ignition Feeler Gauge. 11 Fingers 1-5/8" long in the following thicknesses—.012, .013, .014, .015, .018, .020, .022, .025, .028, .032, .035 and one file.

SET No. GS-7 Spark Plug Gap Feeler Gauge. 8 90° Wires—.022, .025, .028, .030, .032, .035, .038, .040 and electrode bender.

No. GS-8 Feeler Gauge Stock Holder. 4-3/4" long. Holds one 12" Blade, any thickness.

SET No. GS-9 Special Chevrolet Feeler Gauge. 8 Blades 3-1/2" long in the following thicknesses—.006, .007, .008, .010, .012, .013, .015, .020; 4 Fingers 3-1/2" long in the following thicknesses—.018, .020, .022, .024; 3 90° Wires—.032, .035, .040; one file and one electrode bender.

SET No. GS-10 Special Ford Feeler Gauge. 9 Step Blades 3-1/2" long in the following thicknesses—.010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020; 4 Fingers 3-1/2" long in the following thicknesses—.013, .015, .020, .025; 2 Straight Wires—.017 and .030; 3 90° Wires—.025, .028, .030 and one electrode bender.

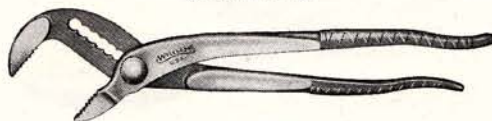
WILLIAMS' "SUPERPLIERS" (Slip-Joint)



Midget No. 1519, 4-position joint opens 0 to 9/16", with jaws parallel at the most important openings. Efficient for wiring, panel, switchboard, radio, and other delicate work. Chrome-plated over nickel, faces polished.

No.	Length	Packaged Quantity
1519	4 1/2	6

WILLIAMS' SUPERPLIERS (Slip-Joint)

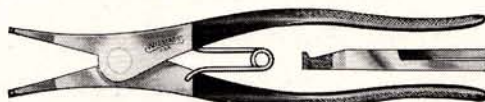


Standard No. 1520 is long and slim; 8-position joint opens 0 to 2". Diamond embossed handles provide firm hand grip. Gray satin finish, faces polished.

Heavy Duty No. 1521, 7-position slip-joint opens 0 to 2". Heavy duty construction makes this plier particularly useful in plumbing and electrical trades. Diamond embossed handles provide firm hand grip. Gray satin finish, faces polished.

No.	Length	Packaged Quantity
1520	9 1/2	6
1521	10	6

WILLIAMS' LOCK RING PLIERS For Snap Lock Rings



Pliers are designed for spreading "Horse Shoe" snap lock rings on automotive brakes, transmissions, differentials, pulleys, etc. Finish, gun metal blue handles with polished nose.

No.	Length	Packaged Quantity
1515	8	1

WILLIAMS' BRAKE PLIERS For inserting and removing springs (internal)



For use only on passenger cars, light and medium trucks excepting Ford "A". Gray satin finish; head faces polished.

No.	Length	Packaged Quantity
1517	13	1

WILLIAMS' BATTERY PLIERS



Offset jaws allow ample hand clearance for battery terminal work. Milled teeth assure positive grip. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
67	7	1

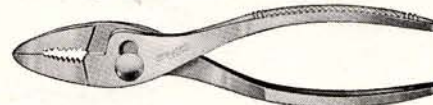
WILLIAMS' COMBINATION SLIP-JOINT PLIERS



These Combination Pliers, with 2 position slip-joints, are very efficient for general service. All are sturdy, well designed tools. Drop-forged from selected steel, with knurled handles; polished and nickel-plated.

No.	Length	Packaged Quantity
6	6	1
8	8	1
10	10	1

WILLIAMS' THIN NOSE COMBINATION SLIP-JOINT PLIERS



These thin nose pliers, with 2 position slip-joints, are very efficient for close-quarters work. They are sturdy, well designed tools. Drop-forged from selected steel, knurled handles; polished and nickel-plated.

No.	Length	Packaged Quantity
15	5	1
16	6	1

WILLIAMS' COMBINATION SLIP-JOINT PLIERS WITH SIDE CUTTER



These sturdy combination pliers have keen side cutters and a flush head rivet on one side. Drop-forged from selected steel, with knurled handles; faces polished.

No.	Length	Packaged Quantity
370	7	1

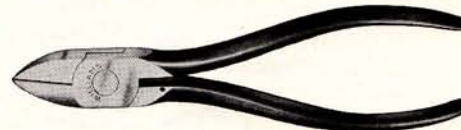
WILLIAMS' LINEMEN'S SIDE CUTTING PLIERS



These are heavy duty well-balanced pliers to meet the requirements of linemen and electricians. Surfaces of jaws are deep milled for holding and bending wire. Jaws have powerful cutters. Drop-forged from selected steel, faces polished.

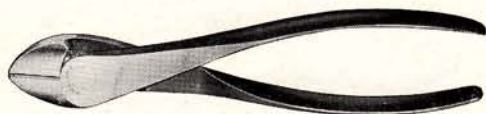
No.	Length	Packaged Quantity
206	6	1
237	7	1
238	8	1

WILLIAMS' DIAGONAL CUTTING PLIERS



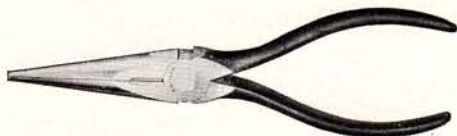
Mechanics and electricians find many uses for these rugged tools. Cutting edges are made for lasting service. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
46	6	1
47	7	1

**WILLIAMS' HIGH LEVERAGE
DIAGONAL CUTTING PLIERS**

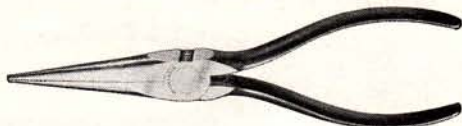
Added leverage for easier and more powerful cutting. They are particularly adapted to heavy duty work. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
57	7	1

**WILLIAMS' LONG CHAIN NOSE PLIERS
WITH SIDE CUTTER**

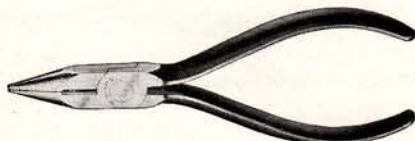
Long, thin nose for close quarters with side-cutting jaws. Ideal for ignition and electrical work, etc. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
76	6	1
77	7	1

**WILLIAMS' LONG CHAIN NOSE PLIERS
WITHOUT SIDE CUTTER**

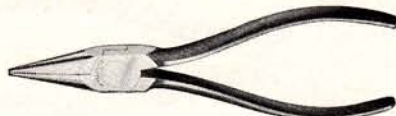
Long, tapered nose is ideal in close quarters encountered in ignition and electrical work. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
86	6	1
87	7	1

**WILLIAMS' SHORT CHAIN NOSE PLIERS
WITH SIDE CUTTER**

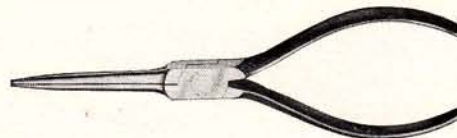
For fine mechanical work such as done in the jewelry, optical and electronics fields. Jaws have side cutters. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
95	5	1

**WILLIAMS' SHORT CHAIN NOSE PLIERS
WITHOUT SIDE CUTTER**

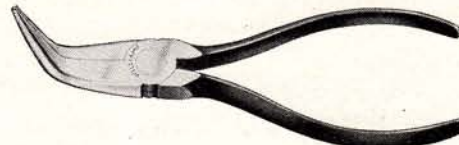
For fine mechanical work such as done in the jewelry, optical and electronics trades. No cutter in jaws. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
105	5	1

WILLIAMS' LONG NEEDLE NOSE PLIERS

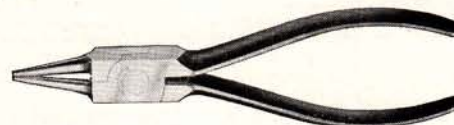
The long slender jaws have strong gripping ability. Jaws will not become distorted in normal use. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
116	6	1

WILLIAMS' BENT NEEDLE NOSE PLIERS

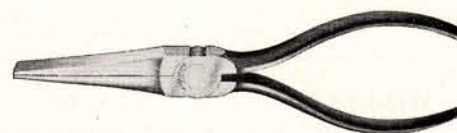
The long slender jaws are bent to reach around or under obstructions. Jaws have strong gripping ability. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
126	6	1

WILLIAMS' ROUND NOSE PLIERS

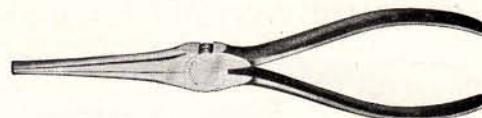
Extensively used for flat or round wire forming. Nose and jaws are amply strong for this type of work. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
134	4	1
136	6	1

**WILLIAMS' DUCK BILL PLIERS
(Flat Jaws)**

Used in highly inaccessible places where there is not space for ordinary pliers or fingers. Strong jaws have firm grip. Drop-forged from selected steel, faces polished.

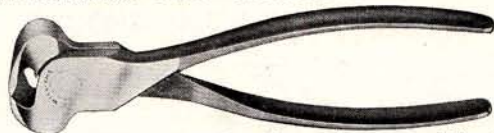
No.	Length	Packaged Quantity
146	6	1

**WILLIAMS' EXTRA LONG
DUCK BILL PLIERS**

Widely used by textile weavers, telephone maintenance men and punch press operators for inserting and removing work. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
157	7	1

WILLIAMS' END CUTTING NIPPERS



These powerful easy cutting nippers have carefully sharpened edges. Wide throat provides ample clearance. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
166	6	1
167	7	1

WILLIAMS' GAS AND BURNER PLIERS



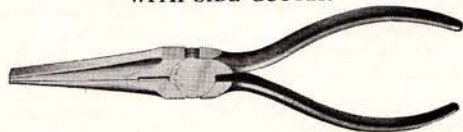
These pliers have larger capacities than ordinary pliers of this type. Handles are designed for comfortable grip. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
178	8	1
180	10	1

WILLIAMS' FENCE PLIERS
WITH STAPLE PULLER

For maintaining and installing wire fence on metal or wood posts. Head has hammer on one jaw, starting and pulling point on the other. Pliers also have two wire cutters, staple puller and wire splicer in nose, wire stretcher and lug lifter. Drop-forged from selected steel.

No.	Length	Packaged Quantity
190	10	1

WILLIAMS' LONG FLAT NOSE PLIERS
WITH SIDE CUTTER

Side cutting jaws have long gripping surfaces. In addition to auto radiator repair work these pliers are widely used in textile mills on certain types of knitting machines. Drop-forged from selected steel, faces polished.

No.	Length	Packaged Quantity
196	6	1

WILLIAMS' BALL PEIN HAMMERS



Williams Ball Pein Hammers are exceptionally well balanced. They are drop-forged from specially selected steel and carefully heat-treated for uniform, dependable strength and hardness. They are built to withstand severe usage.

Handles are made from second growth white hickory and clear lacquered. Each handle is carefully fitted and permanently wedged into the head.

No.	Length	Weight	Packaged Qty.
7-0	9 3/4	2 oz.	6
5-0	9 3/4	1/4 lb.	6
3-0	11 1/2	1/2 lb.	6
2-0	13 1/2	3/4 lb.	6
0	14	1 lb.	4
2	14 1/2	1-1/2 lbs.	4
4	15 1/2	2 lbs.	4
6	16	2-1/2 lbs.	4

WILLIAMS' SOFT-FACE HAMMERS

With "Nuplaflex" and Nylon Interchangeable Tips

"Nuplaflex" is highly resistant to oil, gasoline, common industrial solvents and acids. It is non-explosive and electrically non-conductive.

"Nuplok" (Pat. Pending) tip locking device is used

throughout. All hammers have selected hickory handles. Series 100, 150, 153, 200, 250 and 300 have die-cast aluminum alloy heads with bright finish. Series 105, 155, 205, 207, 255 and 305 have die-cast zinc-alloy heads with bright finish.

Nylon Tipped Cross Peen Hammer No. 153-44V is specially designed for peening work in aircraft and automotive assembly and sheet metal work. The long, light-weight head has one wedge-pointed Cross Peen Nylon tip, No. 15-4V, and one regular round Nylon tip, No. 15-4.

Regular Cross Peen Tip No. 15-4V will also fit in Williams Soft-Face Hammers, series 150 and 155.

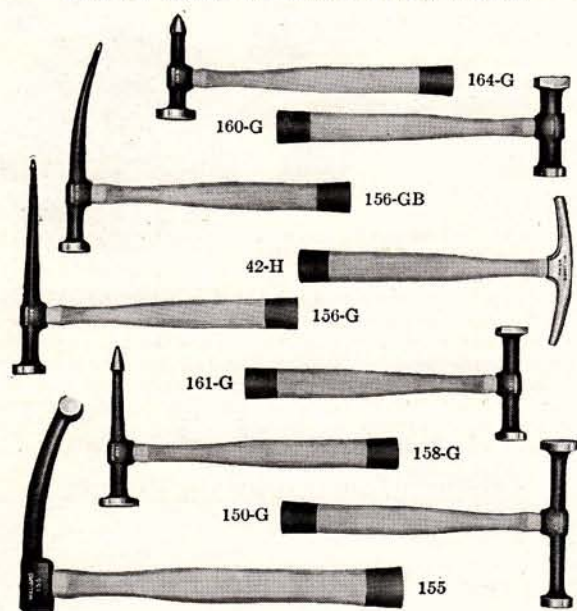
SOFT-FACE HAMMERS COMPLETE WITH TIPS

No.	Head Dia. Inches	Head Lgth. In.	Handle Lgth. In.	Weight	Kind of Tip	Min. Qty. Pkg.
100-1	1	3-1/2	11-3/8	5 oz.	Soft	6
100-2	1	3-1/2	11-3/8	5 oz.	Medium	6
100-3	1	3-1/2	11-3/8	5 oz.	Tough	6
100-4	1	3-1/2	11-3/8	5 oz.	Nylon	6
105-1	1	3-1/2	11-3/8	8 oz.	Soft	6
105-2	1	3-1/2	11-3/8	8 oz.	Medium	6
105-3	1	3-1/2	11-3/8	8 oz.	Tough	6
105-4	1	3-1/2	11-3/8	8 oz.	Nylon	6
150-1	1-1/2	4-3/8	13	3/4 lb.	Soft	6
150-2	1-1/2	4-3/8	13	3/4 lb.	Medium	6
150-3	1-1/2	4-3/8	13	3/4 lb.	Tough	6
150-4	1-1/2	4-3/8	13	3/4 lb.	Nylon	6
153-1	1-1/2	7	13	1-1/8 lb.	Soft	6
153-2	1-1/2	7	13	1-1/8 lb.	Medium	6
153-3	1-1/2	7	13	1-1/8 lb.	Tough	6
153-4	1-1/2	7	13	1-1/8 lb.	Nylon	6
153-44V	1-1/2	7	13	1-1/8 lb.	† Nylon	6
155-1	1-1/2	4-3/8	13	1-1/4 lb.	Soft	6
155-2	1-1/2	4-3/8	13	1-1/4 lb.	Medium	6
155-3	1-1/2	4-3/8	13	1-1/4 lb.	Tough	6
155-4	1-1/2	4-3/8	13	1-1/4 lb.	Nylon	6
200-1	2	5	13	1-1/2 lb.	Soft	6
200-2	2	5	13	1-1/2 lb.	Medium	6
200-3	2	5	13	1-1/2 lb.	Tough	6
200-4	2	5	13	1-1/2 lb.	Nylon	6
205-1	2	5	13	2 lb.	Soft	6
205-2	2	5	13	2 lb.	Medium	6
205-3	2	5	13	2 lb.	Tough	6
205-4	2	5	13	2 lb.	Nylon	6
207-1	2	6-3/8	15	3 lb.	Soft	4
207-2	2	6-3/8	15	3 lb.	Medium	4
207-3	2	6-3/8	15	3 lb.	Tough	4
207-4	2	6-3/8	15	3 lb.	Nylon	4
250-1	2-1/2	6-1/4	15	2 lb.	Soft	4
250-2	2-1/2	6-1/4	15	2 lb.	Medium	4
250-3	2-1/2	6-1/4	15	2 lb.	Tough	4
250-4	2-1/2	6-1/4	15	2 lb.	Nylon	4
255-1	2-1/2	6-1/4	13	4 lb.	Soft	4
255-2	2-1/2	6-1/4	13	4 lb.	Medium	4
255-3	2-1/2	6-1/4	13	4 lb.	Tough	4
255-4	2-1/2	6-1/4	13	4 lb.	Nylon	4
300-1	3	7	14	3-1/2 lb.	Soft	2
300-2	3	7	14	3-1/2 lb.	Medium	2
300-3	3	7	14	3-1/2 lb.	Tough	2
300-4	3	7	14	3-1/2 lb.	Nylon	2
305-1	3	7	14	6 lb.	Soft	2
305-2	3	7	14	6 lb.	Medium	2
305-3	3	7	14	6 lb.	Tough	2
305-4	3	7	14	6 lb.	Nylon	2
*307-2	3	7-7/8	28	9 lb.	Medium	1
*307-3	3	7-7/8	28	9 lb.	Tough	1
*307-4	3	7-7/8	28	9 lb.	Nylon	1
*308-2	3	9	36	12 lb.	Medium	1
*308-3	3	9	36	12 lb.	Tough	1
*308-4	3	9	36	12 lb.	Nylon	1

EXTRA "NUPLAFLEX" AND NYLON TIPS

No.	Head Diam. Inches	Kind of Tip	Min. Qty. Pkg.	Wt. Ea. Lbs.	No.	Head Diam. Inches	Kind of Tip	Min. Qty. Pkg.	Wt. Ea. Lbs.
10-1	1	Soft	12	.05	20-3	2	Tough	4	.27
10-2	1	Medium	12	.05	20-4	2	Soft	4	.27
10-3	1	Tough	12	.05	25-1	2-1/2	Soft	2	.44
10-4	1	Nylon	12	.05	25-2	2-1/2	Medium	2	.44
15-1	1-1/2	Soft	6	.14	25-3	2-1/2	Tough	2	.44
15-2	1-1/2	Medium	6	.14	25-4	2-1/2	Soft	2	.44
15-3	1-1/2	Tough	6	.14	30-1	3	Soft	2	.66
15-4	1-1/2	Nylon	6	.14	30-2	3	Medium	2	.66
15-4V	1-1/2	† Nylon	6	.14	30-3	3	Tough	2	.66
20-1	2	Soft	4	.27	30-4	3	Nylon	2	.66
20-2	2	Medium	4	.27					

* Head made of steel with rust proof black finish. † Cross Peen Tip. ‡ Hammer furnished with one regular round and one Cross Peen Tip.

WILLIAMS'
BODY AND FENDER HAMMERS

Drop-forged from selected steel and heat-treated. Fitted with selected hickory handles finished with clear lacquer.

No. 150-G DINGING HAMMER—This rugged well balanced hammer is recommended for general bumping and dinging where heavier blows are required. Long head permits dinging over obstructions.

No. 155 FENDER BUMPER—A heavy hammer for use in places inaccessible by hand with an ordinary dolly. Designed to clear obstructions when bumping out dents from the inside.

No. 156-G FINISHING HAMMER—Pointed end is used for driving up small dents in low crown and flat panels. The dinging head has a high crown face. Extra long reach permits working over braces and inner construction inside bodies.

No. 156-GB CURVED FINISHING HAMMER—Pointed end is bent to arc of a normal swing, otherwise same as No. 156-G. Curved pointed end allows user to reach in such places as the edge of a roof rail panel and in behind bracing.

No. 158-G FINISHING HAMMER—While designed for general work it is particularly useful for driving up small low spots when filing. Pick end is well balanced with low crown dinging head.

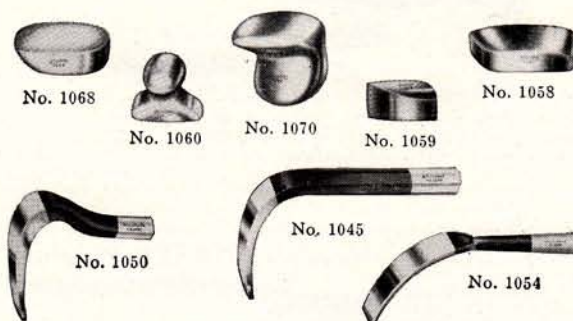
No. 160-G BUMPING HAMMER—A heavy duty hammer for straightening braces, reinforcements, floor panels, etc. Well adapted to heavy duty bumping work on body and fender straightening.

No. 161-G DINGING HAMMER—A light-weight well balanced hammer for light and medium work. Square face is low crowned and round face is high crowned.

No. 164-G UTILITY HAMMER—Short pick has bullet shaped end for driving up small dents. It is also useful for driving up dents in fenders without removing the wheel and for general dinging on thin gauge metal.

No. 42-H MAGNETIC TRIMMER'S HAMMER—Full polished head is drop-forged from steel selected to retain magnetism. Arc of the head is designed for utmost efficiency in trimming and upholstery work.

No.	FACES		POINTED ENDS		Length Head Overall	Handle Length	Pkg. Qty.
	Round	Square	Tip Radius	Length			
150-G	1 1/4				6	11 1/2	6
155					8 1/2	15	4
156-G	1 1/4		1/32	5 1/2	8	11 1/2	6
156-GB	1 1/4				8	11 1/2	6
158-G	1 9/16		3/32	3 3/4	6 3/4	11 1/2	6
160-G	1 1/4	1 3/16			4	11 1/2	6
161-G	1 1/4	1 1/8			4	11 1/2	6
164-G	1 9/16		5/32	2	4	11 1/2	6
42-H					5 7/8	11	6

WILLIAMS'
DOLLY BLOCKS AND SPOONS

Drop-forged from selected steel. Dolly Blocks are full polished. Bodies of Spoons are finished in black, blade ends are full polished.

No. 1058 TOE DOLLY—Extremely versatile due to its thinness and length. The large flat surface is useful in dinging flat panels and lower hood quarters. Fits many odd curves.

No. 1059 HEEL DOLLY—This dolly is designed for use in corners and wide radii.

No. 1060 GENERAL PURPOSE DOLLY—Its unlimited use makes it one of the most popular of all. Its weight and balance assure comfortable seating in the hand. Wide adaptability is achieved through the several differently crowned working surfaces and the two flanging and beading lips.

No. 1068 LOW CROWN DOLLY—Made for dinging on low crown panels where other dollies would stretch the metal. Also can be used for flange work. The 90° angle between the low crown face and the sides permits dinging in the furthest recesses of a flanged edge.

No. 1070 HEAVY DUTY DOLLY—For general heavy duty work. This dolly is recommended for use on heavy gauge fenders and panels. It is particularly adapted for roughing work and for use with air hammers.

No. 1045 LONG TURRET TOP SPOON—This spoon is used for prying and driving or as an offset dolly for dinging where it can be inserted between outer panel and inner construction. End at blade has a medium caulking face.

No. 1050 COMBINATION SPOON—Designed for general use. Its long high crown working surface is ideal for working behind reinforcements on high crown panels such as between fender brackets and fender where it is impossible to use a dolly block.

No. 1054 LONG CURVED SPOON—This spoon has a long, thin, curved blade which is handy for prying up dents encountered behind hinge anchors in doors and body pillars, reinforcements in hood tops, radiator shells, header panels, etc.

DOLLY BLOCKS

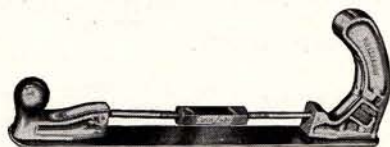
No.	Size	Packaged Quantity
1058	4-3/4 x 2-1/4 x 1-1/16	1
1059	3-1/8 x 2-3/8 x 1-7/16	1
1060	2-7/8 x 2-3/8 x 2-1/4	1
1068	2-3/4 x 1-5/8 x 4	1
1070	3-5/8 x 3-1/4 x 2-1/2	1

SPOONS

No.	Length Overall	Face	Octagon Handle	Packaged Quantity
1045	10	1-7/8 x 5-1/4 x 3/16	1 1/8	4
1050	4 3/4	1-3/4 x 5-1/2	1	4
1054	10 1/2	2 x 7	.....	6

WILLIAMS' FILES AND FILE HOLDERS

No. 1150 ADJUSTABLE FILE HOLDER

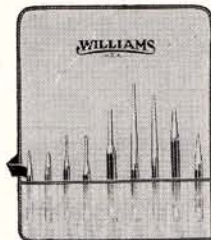


The handle of Williams Adjustable File Holder may be adjusted to either side or completely reversed and again adjusted to either side, enabling the operator to work close to obstructions without risk of injury to the hand. For either right or left hand use the handle is entirely out of the way of the work. Although light in weight, Holder is extremely rigid and comfortably balanced. File may be flexed either way to the maximum point of safety against breakage. Before flexing, the bolt which attaches blade to the rear of the holder should be loosened. Weight, 1 lb. Packed 6 in cardboard box.

14" STANDARD FLEXIBLE MILLED CURVED-TOOTH FILE



This type of file is universally used in auto body repair work. Curved teeth are milled on both sides. These files are made from special alloy steel, precision milled and are self clearing. They leave a smooth finish. Designed for use with Williams Adjustable File Holder No. 1150. Weight, 5/8 lb. Packed 6 in cardboard box.



PUNCH SET No. P-9
In Leatherette Roll
In Cardboard Box
Weight, 3 lbs.

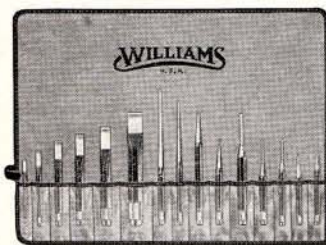
This handy punch set contains three Pin Punches with 1/8", 3/16" and 1/4" points; two Solid Punches with 3/32" and 1/8" points; two long Taper Punches with 5/32" and 3/16" points; one Prick Punch and one Center Punch, each 5" long.

CHISEL SET No. C-6

In Leatherette Roll
In Cardboard Box

Weight, 4.3 lbs.

This compact chisel set contains six Cold or Flat Chisels 1/4", 3/8", 1/2", 5/8", 3/4" and 1-1/8" wide.



PUNCH and CHISEL SET No. PC-15

In Leatherette Roll
In Cardboard Box
Weight, 7.2 lbs.

This combination set contains a complete assortment of Williams Punches and Chisels. Set contains six Cold or Flat Chisels 1/4" to 1-1/8" wide; three Pin Punches with 1/8", 3/16" and 1/4" points; two Solid Punches with 3/32" and 1/8" points; two Long Taper Punches with 5/32" and 3/16" points; one Prick Punch and one Center Punch, each 5" long.

WILLIAMS' PUNCHES AND CHISELS



Pin, Nos. P-3 to P-10

Solid, Nos. P-13 to P-17



Prick, No. P-30

Center, No. P-40 & P-42



Long Taper, Nos. P-25 to P-28

Williams Punches are forged from high grade octagon alloy steel, properly hardened and tempered to stand up under the most severe service. Body finished in black, with the taper and head full polished. Packed 6 in cardboard box.

No.	Point Diam.	Stock Size	Length
PIN PUNCHES			
P-3	3/32	3/8	6
P-4	1/8	3/8	6
P-5	5/32	3/8	6
P-6	3/16	1/2	6
P-8	1/4	5/8	8
P-10	5/16	5/8	8

No.	Point Diam.	Stock Size	Length
SOLID PUNCHES			
P-13	3/32	1/2	6
P-14	1/8	1/2	6
P-15	5/32	1/2	6
P-16	3/16	1/2	6
P-17	1/4	1/2	6

No.	Point Diam.	Stock Size	Length
LONG TAPER PUNCHES			
P-25	5/32	3/8	9
P-26	3/16	1/2	10
P-28	1/4	5/8	12

No.	Point Diam.	Stock Size	Length
PRICK PUNCHES			
P-30		3/8	5

No.	Point Diam.	Stock Size	Length
CENTER PUNCHES			
P-40		3/8	5
P-42		1/2	6



Cold, Nos. C-8 to C-36



Extra Long Cold, Nos. C-120 to C-132



Cape, Nos. C-40 to C-46

Round Nose, Nos. C-72 & C-74



Diamond Point, Nos. C-60 & C-62



Pinch Bars, Nos. C-80 & C-82



Rivet Buster, No. C-422

CHISELS AND PINCH BARS

Williams Chisels and Pinch Bars of high grade octagon alloy steel, are carefully forged, hardened and tempered. Body finished in black with full polished ends. Packed 6 in cardboard box, excepting No. C-36, C-80, C-82—3 in a box.

RIVET BUSTER

Designed especially for cutting off hardened rivet heads. A great time saver when used for this purpose, instead of the ordinary chisel. Packed 3 in a box.

No.	Width of Cut	Stock Size	Length
COLD or FLAT CHISELS			
C-8	1/4	1/4	4 3/4
C-10	5/16	5/16	5
C-12	3/8	3/8	5 1/2
C-16	1/2	1/2	6
C-20	5/8	5/8	6 1/2
C-24	3/4	3/4	7
C-28	7/8	7/8	8
C-32	1	7/8	8
C-36	1 1/8	1	8

No.	Width of Cut	Stock Size	Length
EXTRA LONG COLD CHISELS			
C-120	5/8	1/2	12
C-124	3/4	5/8	12
C-132	1	3/4	12

No.	Width of Cut	Stock Size	Length
CAPE CHISELS			
C-40	3/16	3/8	6
C-42	1/4	1/2	6 1/4
C-44	5/16	1/2	6 1/4
C-46	3/8	5/8	7

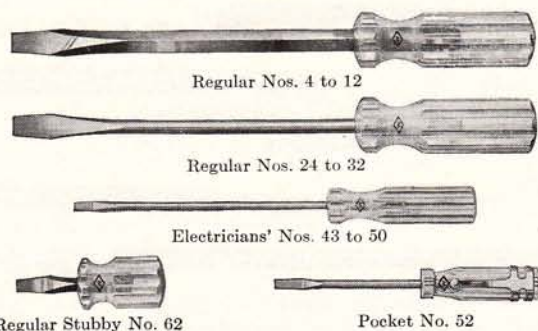
No.	Width of Cut	Stock Size	Length
DIAMOND POINT CHISELS			
C-8	1/4	3/8	5 1/4
C-62	3/8	5/8	6

No.	Width of Cut	Stock Size	Length
ROUND NOSE CHISELS			
C-72	1/4	1/2	6 1/4
C-74	3/8	5/8	7

No.	Width of Cut	Stock Size	Length
RIVET BUSTER			
C-422	11/16	3/4	12

No.	Width of Cut	Stock Size	Length
PINCH BARS			
C-80		1/2	14
C-82		5/8	16

WILLIAMS' SCREW DRIVERS



Williams' Regular, Electricians', Pocket and Stubby (adjusting) Screw Drivers are all fitted with handles of a tough transparent composition, an insulator of electricity. Fluted for sure, comfortable grip. The blades, hardened and tempered throughout their entire length, are solidly anchored in the handles.

Regular patterns are available with either square or round blades. Electricians' have round blades and the Stubby a square blade. The Pocket has round blade and is fitted with pocket clip which is secured in a grooved recess, as illustrated.

REGULAR — SQUARE BLADE — COMPOSITION HANDLE

No.	Blade Length	Stock Size	Tip Width	Packaged Qty.
4	4	1/4	5/16	6
6	6	5/16	5/16	6
6B	6	3/8	3/8	6
8	8	3/8	3/8	6
12	12	3/8	3/8	6

REGULAR — ROUND BLADE — COMPOSITION HANDLE

No.	Blade Length	Stock Size	Tip Width	Packaged Qty.
24	4	1/4	1/4	6
26	6	5/16	5/16	6
28	8	3/8	3/8	6
32	12	3/8	3/8	6

ELECTRICIANS' — ROUND BLADE — COMPOSITION HANDLE

No.	Blade Length	Stock Size	Tip Width	Packaged Qty.
43	3	3/16	3/16	6
46	6	3/16	3/16	6
50	10	3/16	3/16	6

POCKET (with Clip) — ROUND BLADE — COMPOSITION HANDLE

No.	Blade Length	Stock Size	Tip Width	Packaged Qty.
52	2 1/4	1/8	1/8	12

REGULAR STUBBY (Adjusting) — COMPOSITION HANDLE

No.	Blade Length	Stock Size	Tip Width	Packaged Qty.
62	1 1/2	1/4	5/16	6

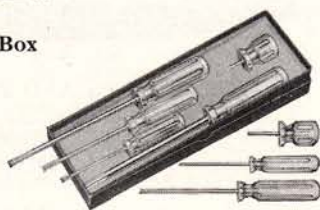
WILLIAMS' SCREW DRIVER SETS

SET No. CH-8

Complete in Cardboard Box

CONTENTS

1 each Nos. CH-33, CH-43, CH-51, CH-54, CH-61, CH-64, CH-86 and CH-106 Clutch Head Screw Drivers with composition handles.

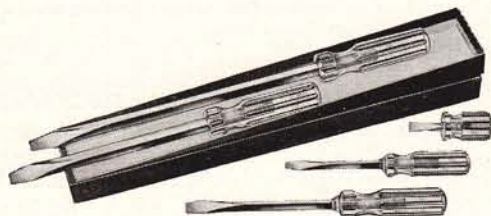


SET No. 1-D

Complete in Cardboard Box

CONTENTS

1 each Nos. 4, 6, 8, 12 and 62 Regular Screw Drivers with square blades and composition handles.

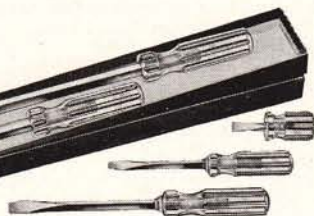


SET No. 2-D

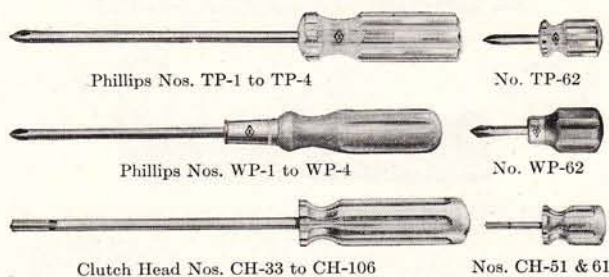
Complete in Cardboard Box

CONTENTS

1 each Nos. 24, 26, 28 and 32 Regular Screw Drivers with round blades and composition handles.



WILLIAMS' SCREW DRIVERS



Williams' Phillips Screw Drivers fit the entire range of Phillips recessed-head screws. These, and the Clutch Head, with special tip design for servicing Clutch Head Screws, have round Selected Alloy Steel blades, hardened and tempered. They are securely anchored in handles made of wood or a tough transparent composition which is an insulator of electricity. Fluted for sure, comfortable grip.

PHILLIPS — COMPOSITION OR WOOD HANDLE

No. With Composition Handles	No. With Wood Handles	Fits Screws No.	Blade Length	Stock Size	Packaged Quantity
TP-1	WP-1	4 and Smaller	3	9/64	6
TP-2	WP-2	5 to 9 incl.	4	1/4	6
TP-3	WP-3	10 to 16 incl.	6	5/16	6
TP-4	WP-4	18 and larger	8	3/8	6

PHILLIPS STUBBY (Adjusting) COMPOSITION OR WOOD HANDLES

No.	Blade Length	Stock Size	Packaged Quantity
TP-62	5 to 9 incl.	1 1/2 | 1/4	6

CLUTCH HEAD — REGULAR — COMPOSITION HANDLE

No.	Fits Clutch Head Screw No.	Bit Diam.	Blade Diam.	Blade Length	Extreme Length	Packaged Quantity
CH-33	2 & 3	3/32	1/8	3	6	12
CH-43	4	1/8	1/8	3	6	12
CH-54	6 & 8	5/32	3/16	4 1/4	7 3/4	12
CH-64	10	3/16	3/16	4 1/4	7 3/4	12
CH-86	12, 14 & 1/4	1/4	1/4	6	9 5/8	12
CH-106	5/16 & 3/8	5/16	5/16	6	10	12

CLUTCH HEAD — STUBBY — COMPOSITION HANDLE

No.	Blade Length	Stock Size	Packaged Quantity
CH-51	6 & 8	5/32 | 3/16	12
CH-61	10	3/16 | 1 1/2	12

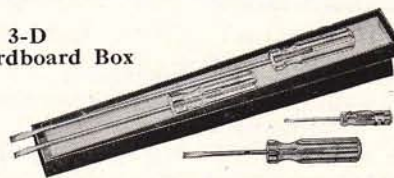
WILLIAMS' SCREW DRIVER SETS

SET No. 3-D

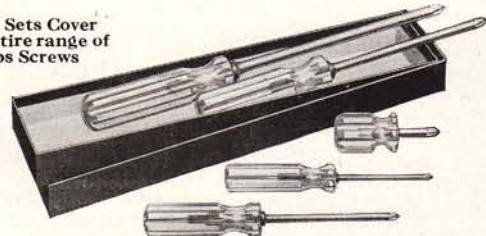
Complete in Cardboard Box

CONTENTS

1 each Nos. 43, 46, 50 and 52 Williams' Electricians' Screw Drivers with composition handles.



These Sets Cover the entire range of Phillips Screws



SET No. TP-5

Complete in Cardboard Box

CONTENTS

1 each Nos. TP-1, TP-2, TP-3, TP-4 and TP-62 Phillips Screw Drivers with composition handles.

SET No. WP-5

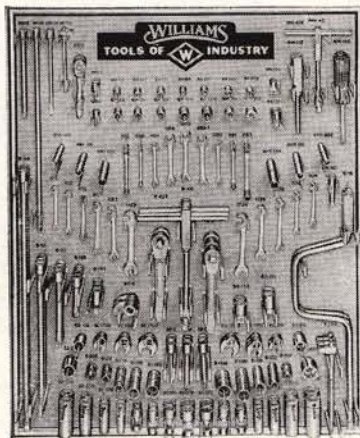
Complete in Cardboard Box

CONTENTS

1 each Nos. WP-1, WP-2, WP-3, WP-4 and WP-62 Phillips Screw Drivers with hard wood handles.

WILLIAMS' TOOL DISPLAY BOARDS — 24 x 30 INCHES

The flexibility of Williams Tool Display Boards makes possible limitless combinations to fit any display area or type of trade. Their many outstanding features contribute to increased sales and greater profits.



Each Panel
Measures 24" x 30"

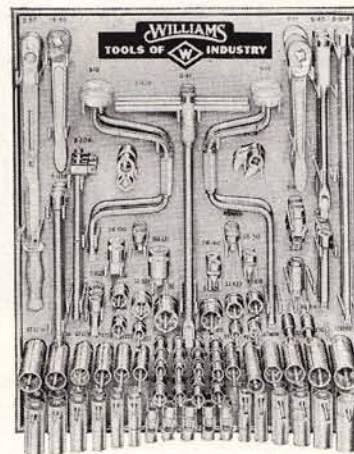
Trimmed With
Chrome Molding

Finished in
Bright Williams' Orange

Each Display
Holds Complete Selection

No. 101

1/4" Drive Midget, 3/8" Drive Bantam
"Supersockets" and Midget "Superrenches"



No. 102

1/2" Drive Standard
"Supersockets" and Parts

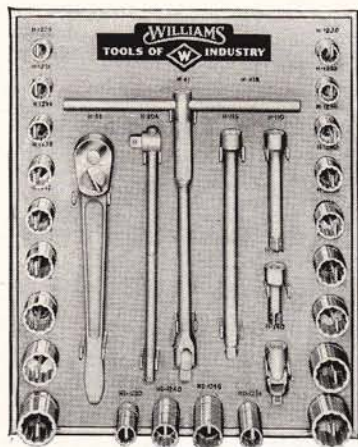
CONTENTS

Quantity and No.	Description	Quantity and No.	Description
2 NM-20A	Sliding T Handle...	3 1153	Midget Box...
2 NM-42	Flex Handle...	2 B-15	Speeder...
2 NM-42B	Bar...	2 B-20A	Sliding T Handle...
2 NM-51	Ratchet...	2 B-40	Flex. Handle...
2 NM-102	Extension...	2 B-42B	Bar...
2 NM-106	Extension...	1 B-50	Ratchet...
2 NM-110	Extension Driver...	3 B-51	Rev. Ratchet...
2 NM-115	Extension...	2 B-108	Extension...
2 NM-116	Extension...	2 B-110	Extension...
2 NM-126	Screw Driver...	2 B-115	Extension...
2 MB-130	Adapter...	1 B-118	Extension...
2 MB-131	Adapter...	2 BS-130	Adapter...
2 NMP-1	Phillips Attach...	2 BS-131	Adapter...
2 NMP-2	Phillips Attach...	2 B-140	Universal Joint...
2 NM-406	3/16" Socket...	2 BP-2	Phillips Attach...
2 NM-407	7/32" Socket...	2 BP-3	Phillips Attach...
2 NM-408	1/4" Socket...	2 BP-4	Phillips Attach...
2 NM-810	5/16" Socket...	2 BC-6	Adj. Crowfoot...
2 NM-812	3/8" Socket...	2 B-608	1/4" Socket...
2 NM-606	3/16" Socket...	2 B-1210	5/16" Socket...
2 NM-607	7/32" Socket...	2 B-1211	11/32" Socket...
2 NM-608	1/4" Socket...	2 B-1212	3/8" Socket...
2 NM-609	9/32" Socket...	3 B-1214	7/16" Socket...
2 NM-1210	5/16" Socket...	3 B-1216	1/2" Socket...
2 NM-1211	11/32" Socket...	3 B-1218	9/16" Socket...
2 NM-1212	3/8" Socket...	3 B-1220	5/8" Socket...
2 NM-1214	7/16" Socket...	2 B-1222	11/16" Socket...
2 NM-1216	1/2" Socket...	2 B-1224	3/4" Socket...
2 NMD-608	1/4" Socket...	2 BU-1212	3/8" Universal...
2 NMD-609	9/32" Socket...	2 BU-1214	7/16" Universal...
2 NMD-1210	5/16" Socket...	2 BU-1216	1/2" Universal...
2 NMD-1211	11/32" Socket...	2 BU-1218	9/16" Universal...
2 NMD-1212	3/8" Socket...	2 BU-1220	5/8" Universal...
2 NMD-1214	7/16" Socket...	2 BU-1222	11/16" Universal...
3 1106	Open End Midget...	2 BC-1700	11/16" Universal...
3 1107	Open End Midget...	2 BC-1701	3/4" Universal...
3 1108	Open End Midget...	2 BC-1702	3/8" Crowfoot...
3 1108A	Open End Midget...	2 BC-1703	3/8" Crowfoot...
3 1112	Open End Midget...	2 BC-1704	1/2" Crowfoot...
3 1113	Open End Midget...	2 BC-1705	9/16" Crowfoot...
3 1114	Open End Midget...	2 BC-1706	5/8" Crowfoot...
3 1115	Open End Midget...	2 BD-1212	11/16" Crowfoot...
3 1116	Open End Midget...	2 BD-1214	3/8" Deep Skt...
3 1118	Open End Midget...	2 BD-1216	7/16" Deep Skt...
3 1120	Open End Midget...	2 BD-1218	1/2" Deep Skt...
3 1122	Open End Midget...	2 BD-1220	9/16" Deep Skt...
3 1124	Open End Midget...	2 BD-1222	5/8" Deep Skt...
3 1128	Open End Midget...	2 BD-1224	11/16" Deep Skt...
3 1132	Open End Midget...	2 BD-1226	3/4" Deep Skt...
3 1150	Midget Box...	1 BD-814	7/16" Sq. Deep...
3 1151	Midget Box...	1 BD-816	1/2" Sq. Deep...
3 1152	Midget Box...	1 BD-818	9/16" Sq. Deep...
		1 BD-820	5/8" Sq. Deep...

CONTENTS

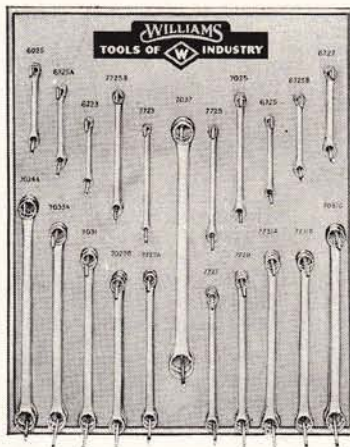
Quantity and No.	Description	Quantity and No.	Description
1 S-10	Speeder...	2 ST-1228	7/8" 12 Pt. Socket
1 S-15	Speeder...	2 ST-1230	15/16" 12 Pt. Socket
2 S-20A	Sliding T Handle...	2 ST-1231	31/32" 12 Pt. Socket
2 SB-30	Screw Driver Att...	2 ST-1232	1" 12 Pt. Socket
2 SB-40	Screw Driver Att...	2 ST-1234	1-1/16" 12 Pt. Socket
2 S-40	Flex. Handle...	2 ST-1236	1-1/8" 12 Pt. Socket
2 S-41	Flex. Handle...	2 ST-1238	1-3/16" 12 Pt. Socket
2 S-42B	Sliding Bar...	2 ST-1240	1-1/4" 12 Pt. Socket
1 S-50	Ratchet...	1 ST-810	5/16" 8 Pt. Socket...
3 S-52	Reversible Ratchet...	1 ST-812	3/8" 8 Pt. Socket...
2 S-55	Ratchet Adapter...	1 ST-814	7/16" 8 Pt. Socket...
1 S-57	Torque Wrench...	1 ST-816	1/2" 8 Pt. Socket...
2 S-60B	Stud Remover...	1 ST-818	9/16" 8 Pt. Socket...
2 S-102P	Extension...	1 ST-820	5/8" 8 Pt. Socket...
2 S-110P	Extension...	1 ST-822	11/16" 8 Pt. Socket...
2 S-115P	Extension...	1 ST-824	3/4" 8 Pt. Socket...
1 S-121P	Extension...	1 ST-828	7/8" 8 Pt. Socket...
2 SH-130	Adapter...	1 ST-832	1" 8 Pt. Socket...
2 SH-131	Adapter...	1 SU-1216	1/2" Universal...
2 S-140	Universal Joint...	1 SU-1218	9/16" Universal...
2 SC-8	Adjustable Crowfoot...	1 SU-1220	5/8" Universal...
2 SC-614	Cadillac Socket...	1 SU-1222	11/16" Universal...
2 AS-616	Hollow Screw Skt...	1 SU-1224	3/4" Universal...
2 AS-618	Hollow Screw Skt...	2 SD-1216	1/2" Deep Socket...
3 ST-1212	3/8" 12 Pt. Socket	2 SD-1218	9/16" Deep Socket...
3 ST-1214	7/16" 12 Pt. Socket	3 SD-1220	5/8" Deep Socket...
3 ST-1216	1/2" 12 Pt. Socket	2 SD-1222	11/16" Deep Socket...
3 ST-1218	9/16" 12 Pt. Socket	2 SD-1224	3/4" Deep Socket...
3 SF-618	9/16" Ford Socket...	2 SD-1226	13/16" Deep Socket...
2 ST-1219	19/32" 12 Pt. Socket	2 SD-1228	7/8" Deep Socket...
3 ST-1220	5/8" 12 Pt. Socket	2 SD-1228T	7/8" Deep Socket...
2 ST-1221	21/32" 12 Pt. Socket	2 SD-1230	15/16" Deep Socket...
2 ST-1222	11/16" 12 Pt. Socket	2 SD-1232	1" Deep Socket...
2 ST-1224	3/4" 12 Pt. Socket	2 SD-1234	1-1/16" Deep Socket...
2 ST-1225	25/32" 12 Pt. Socket	2 SD-1236	1-1/8" Deep Socket...
2 ST-1226	13/16" 12 Pt. Socket		

WILLIAMS' TOOL DISPLAY BOARDS — 24 x 30 INCHES



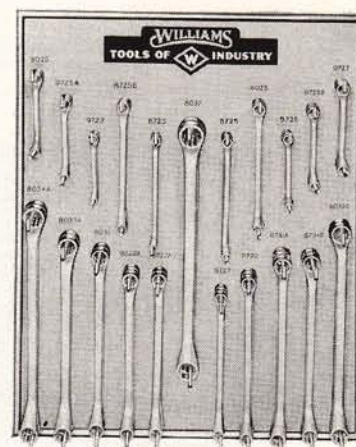
No. 103
3 4" Drive Heavy Duty
"Supersockets" and Parts
CONTENTS

Qty. & No.	Description	Qty. & No.	Description
1 H-20A	Sliding T Hdle.	1 H-1240	1 1/4" 12Pt. Skt.
1 H-41	Flex. Handle	1 H-1242	1 1/8" 12Pt. Skt.
1 H-41B	Sliding Bar	1 H-1244	1 3/8" 12Pt. Skt.
1 H-51	Rev. Ratchet	1 H-1246	1 1/2" 12Pt. Skt.
1 H-104	Extension	1 H-1248	1 3/4" 12Pt. Skt.
1 H-110	Extension	1 H-1252	1 5/8" 12Pt. Skt.
1 H-115	Extension	1 H-1254	1 7/8" 12Pt. Skt.
1 H-140	Universal Joint	1 H-1256	1 3/4" 12Pt. Skt.
1 H-1228	7/8" 12 Pt. Skt.	1 H-1258	1 1/2" 12Pt. Skt.
1 H-1230	1 1/8" 12 Pt. Skt.	1 H-1260	1 7/8" 12Pt. Skt.
1 H-1231	3/4" 12 Pt. Skt.	1 H-1264	2" 12Pt. Skt.
1 H-1232	1" 12 Pt. Skt.	1 HD-1230	1 3/8" Deep Skt.
1 H-1234	1 1/8" 12 Pt. Skt.	1 HD-1234	1 1/2" Deep Skt.
1 H-1236	1 3/8" 12 Pt. Skt.	1 HD-1240	1 3/4" Deep Skt.
1 H-1238	1 5/8" 12 Pt. Skt.	1 HD-1246	1 7/8" Deep Skt.



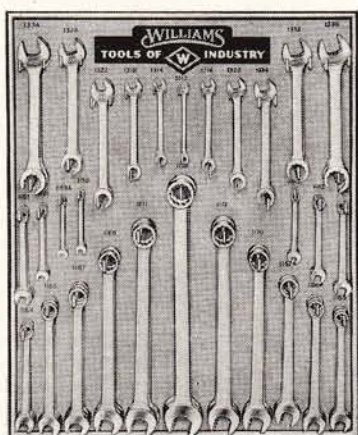
No. 104
15° Angle
Double Offset-Box "Superrenches"
CONTENTS

Quantity & No.	Description	Quantity & No.	Description
3 7723	15° Box 3/8 & 1/2"	2 7033A	15° Box 7/8 & 1 1/4"
3 7025	15° Box 1/2 & 1 1/2"	2 7033C	15° Box 1 3/16 & 1 1/2"
3 7725	15° Box 3/16 & 1/2"	2 7034A	15° Box 1 3/16 & 1 1/4"
3 7725B	15° Box 3/8 & 3/4"	1 7037	15° Box 1 3/16 & 1 1/4"
3 7727	15° Box 3/16 & 5/8"	2 6723	15° Short 3/8 & 1/2"
3 7727A	15° Box 3/8 & 1 1/4"	2 6725	15° Short 3/16 & 1/2"
3 7029B	15° Box 1 1/8 & 3/4"	2 6725A	15° Short 3/16 & 3/8"
3 7729	15° Box 5/8 & 3/4"	2 6725B	15° Short 1/2 & 3/8"
2 7731A	15° Box 3/4 & 1"	2 6025	15° Short 1/2 & 1 1/2"
2 7031	15° Box 2 3/8 & 7/8"	2 6727	15° Short 3/16 & 5/8"
2 7731B	15° Box 1 3/16 & 7/8"		



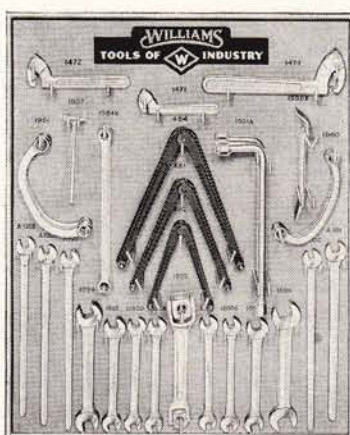
No. 105
45° Angle
Double Offset-Box "Superrenches"
CONTENTS

Quantity & No.	Description	Quantity & No.	Description
3 8723	45° Box 3/8 & 1/2"	2 8033A	45° Box 7/8 & 1 1/4"
3 8725	45° Box 3/16 & 1/2"	2 8033C	45° Box 1 3/16 & 1 1/2"
3 8025	45° Box 3/8 & 1 1/2"	2 8034A	45° Box 1 3/16 & 1 1/4"
3 8725B	45° Box 3/8 & 3/4"	1 8037	45° Box 1 3/16 & 1 1/4"
3 8727	45° Box 3/16 & 5/8"	2 9723	45° Short 3/8 & 1/2"
3 8727A	45° Box 3/8 & 1 1/4"	2 9725	45° Short 3/16 & 1/2"
3 8729	45° Box 3/8 & 3/4"	2 9725A	45° Short 3/16 & 3/8"
3 8029B	45° Box 1 1/8 & 3/4"	2 9725B	45° Short 1/2 & 3/8"
2 8031	45° Box 2 3/8 & 7/8"	2 9025	45° Short 1/2 & 1 1/2"
2 8731A	45° Box 3/4 & 1"	2 9727	45° Short 3/16 & 5/8"
2 8731B	45° Box 1 3/16 & 7/8"		



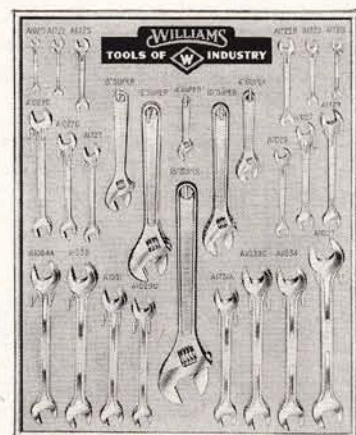
No. 106
Flare Nut and
Open End-Box "Superrenches"
CONTENTS

Quantity & No.	Description	Quantity & No.	Description
2 1159	Comb. 3/8 & 1/2"	2 1171	Comb. 1 1/8 & 1 1/4"
2 1159A	Comb. 1 1/8 & 1 1/2"	2 1172	Comb. 1 3/8 & 1 1/2"
3 1160	Comb. 3/8 & 3/4"	2 1173	Comb. 1 1/4 & 1 3/4"
3 1161	Comb. 3/8 & 1 1/4"		
3 1162	Comb. 1/2 & 1 1/2"	2 1312	Fl. Nut 3/8 & 3/4"
3 1163	Comb. 3/8 & 1 1/2"	2 1314	Fl. Nut 3/8 & 3/4"
2 1163A	Comb. 1 1/8 & 1 1/2"	2 1316	Fl. Nut 3/8 & 3/4"
3 1164	Comb. 5/8 & 1 1/2"	2 1318	Fl. Nut 1/2 & 3/4"
2 1165	Comb. 1 1/8 & 1 1/2"	2 1320	Fl. Nut 5/8 & 3/4"
2 1166	Comb. 3/4 & 1 1/2"	2 1322	Fl. Nut 1 1/8 & 1 1/2"
2 1166A	Comb. 2 3/8 & 2 1/2"	2 1324	Fl. Nut 3/4 & 3/4"
2 1167	Comb. 7/8 & 1 1/2"	2 1328	Fl. Nut 3/8 & 1"
2 1167A	Comb. 1 3/8 & 1 1/2"	2 1332	Fl. Nut 1 & 1"
2 1168	Comb. 1 1/8 & 1 1/2"	2 1334	Fl. Nut 1 1/8 & 1 1/2"
2 1170	Comb. 1 & 1"	2 1336	Fl. Nut 1 3/8 & 1 3/8"



No. 107
Tappet, Spanner and
Special Automotive "Superrenches"
CONTENTS

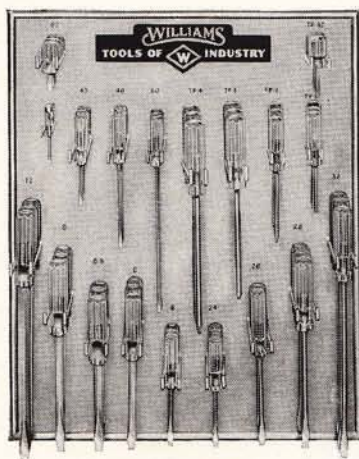
Quantity & No.	Description	Quantity & No.	Description
3 1090	Tappet 3/8 & 1/2"	1 1999	"Multisocket" ..
3 1090A	Tappet 3/8 & 3/4"	1 1997	Brake Wrench ..
3 1090D	Tappet 1/2 & 3/4"	2 1960	Starter-Manifold
3 1090G	Tappet 3/8 & 1 1/2"	2 1961	Starter-Manifold
3 1092	Tappet 3/8 & 5/8"	2 1984X	Ford Brake
3 1092F	Tappet 3/8 & 1 1/2"	3 1998B	Bendix Brake ...
3 1094	Tappet 3/8 & 1"	2 1981A	Ford Conn. Rod
3 1096	Tappet 1 1/8 & 1"		
3 A100	Tappet Wr. 3/8"	1 1471	Adj. Hook Span.
3 A100A	Tappet Wr. 1/2"	1 1472	Adj. Hook Span.
3 A100B	Tappet Wr. 3/8"	1 1474	Adj. Hook Span.
3 A100C	Tappet Wr. 3/8"		
3 A101	Tappet Wr. 3/8"	1 482	Adj. Face Span.
		1 483	Adj. Face Span.
		1 484	Adj. Face Span.



No. 108
Open-End "Superrenches"
and "Superjustables"
CONTENTS

Quantity & No.	Description	Quantity & No.	Description
2 A1020	Op-End 1/4 & 3/8"	2 A1731A	Op-End 3/4 & 7/8"
2 A1720	Op-End 3/16 & 1 1/2"	2 A1031	Op-End 2 3/8 & 3"
2 A1721	Op-End 3/8 & 3/4"	2 A1633C	Op-End 1 3/8 & 1"
3 A1723	Op-End 3/8 & 1/2"	2 A1733	Op-End 3/8 & 1"
3 A1725	Op-End 3/8 & 1 1/2"	2 A1034	Op-End 3/8 & 1 1/4"
3 A1725B	Op-End 1/2 & 3/8"	1 A1034A	Op-End 1 3/8 & 1 1/4"
2 A1025	Op-End 1/2 & 1 1/2"	1 A1037	Op-End 1 3/8 & 1 1/4"
3 A1727	Op-End 3/8 & 5/8"	3 4"	"Superjustable"
2 A1027	Op-End 1 3/8 & 1 1/2"	3 6"	"Superjustable"
2 A1027B	Op-End 3/8 & 1 1/2"	3 8"	"Superjustable"
3 A1729	Op-End 5/8 & 3/4"	3 10"	"Superjustable"
2 A1029B	Op-End 1 1/8 & 3/4"	2 12"	"Superjustable"
2 A1029C	Op-End 1 1/8 & 1 1/2"	1 15"	"Superjustable"

WILLIAMS' TOOL DISPLAY BOARDS — 24 x 30 INCHES

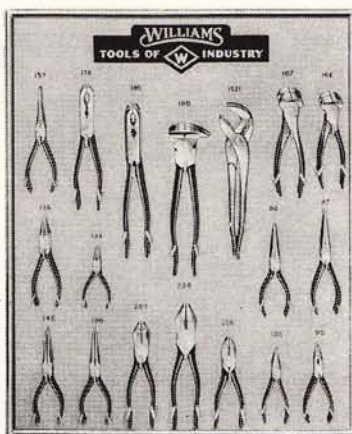


No. 109

Regular and Phillips Screw Drivers

CONTENTS

Quantity & No.	Description	Quantity & No.	Description
3 4	4" Sq. Blade...	3 43	3" Electricians'
3 6	6" Sq. Blade...	3 46	6" Electricians'
3 6B	6" Sq. Blade...	3 50	10" Electricians'
3 8	8" Sq. Blade...	3 52	Pocket Ser. Dr.
3 12	12" Sq. Blade...	3 62	Regular Stubby
3 24	4" Rd. Blade...	3 TP-1	3" Phillips
3 26	6" Rd. Blade...	3 TP-2	4" Phillips
3 28	8" Rd. Blade...	3 TP-3	6" Phillips
3 32	12" Rd. Blade...	3 TP-4	8" Phillips
		3 TP-62	Phillips Stubby



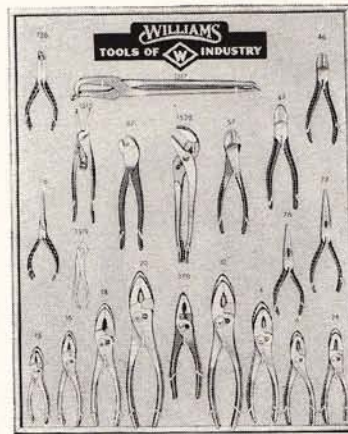
No. 110

Pliers

CONTENTS

Quantity & No.	Description	Quantity & No.	Description
2 1521	H.D. "Superplier"	2 166	6" End Cutting
† 2 86	6" Chain Nose...	2 167	7" End Cutting
† 2 87	7" Chain Nose...	2 178	8" Gas & Burner
† 2 95	5" Chain Nose...	2 180	10" Gas & Burner
† 2 105	5" Chain Nose...	2 190	10" Fence Pliers
2 134	4" Round Nose...	† 2 196	6" Flat Nose...
2 136	6" Round Nose...	2 206	6" Linemen's...
2 146	6" Duck Bill...	2 207	7" Linemen's...
2 157	7" Duck Bill...	2 208	8" Linemen's...

† Without Side Cutter. ‡ With Side Cutter.



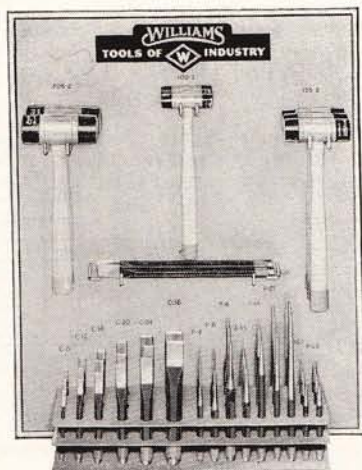
No. 110A

Pliers

CONTENTS

Quantity & No.	Description	Quantity & No.	Description
2 1515	8" Lock Ring...	* 2 20	10" Thin Nose...
2 1517	13" Brake...	* 2 26	6" 30° Bent Nose
2 1519	Mid. "Superpliers"	2 46	6" Diagonal Cut.
2 1520	Std. "Superpliers"	2 47	7" Diagonal Cut.
2 6	6" Slip-Joint...	2 57	7" High Lver. Cut.
2 8	8" Slip-Joint...	2 67	7" Battery Pliers
2 10	10" Slip-Joint...	2 76	6" Chain Nose...
2 1370	7" Slip-Joint...	2 77	7" Chain Nose...
2 15	5" Thin Nose...	2 116	6" Lg. Needle Nose
2 16	6" Thin Nose...	2 126	6" Bt. Needle Nose
2 18	8" Thin Nose...		

* Not yet available. ‡ With side cutter.

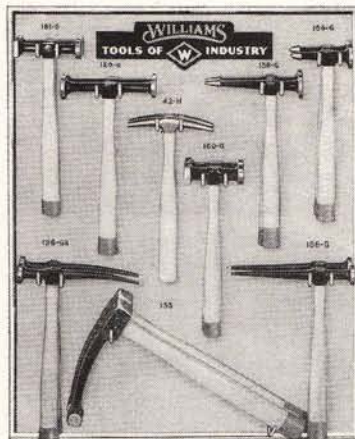


No. 111

Punches, Chisels
and Soft-Face Hammers

CONTENTS

Quantity & No.	Description	Quantity & No.	Description
3 P-4	1/8" Pin Punch...	3 C-8	1/4" Cold Chisel
3 P-6	3/16" Pin Punch...	3 C-12	3/8" Cold Chisel
3 P-8	1/4" Pin Punch...	3 C-16	1/2" Cold Chisel
3 P-13	3/16" Solid Punch...	3 C-20	5/8" Cold Chisel
3 P-14	1/8" Solid Punch...	3 C-24	3/4" Cold Chisel
3 P-25	1/2" Taper Punch...	3 C-36	1 1/4" Cold Chisel
3 P-26	3/8" Taper Punch...	2 C-422	1 1/16" Riv. Buster
3 P-30	Prick Punch...	2 105-2	8 oz. S. F. Ham'er
3 P-40	Center Punch...	2 155-2	1 1/4 lbs. " "
		2 205-2	2 lb. " "

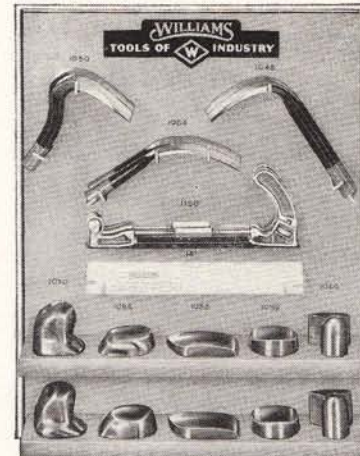


No. 112

Body and Fender Hammers

CONTENTS

Quantity and No.	Description
2 42-H	Magnetic Hammer
2 150-G	Dinging Hammer
2 155	Fender Bumper
2 156-G	Finishing Hammer
2 156-GB	Curved Finishing Hammer
2 158-G	Finishing Hammer
2 160-G	Bumping Hammer
2 161-G	Dinging Hammer
2 164-G	Utility Hammer



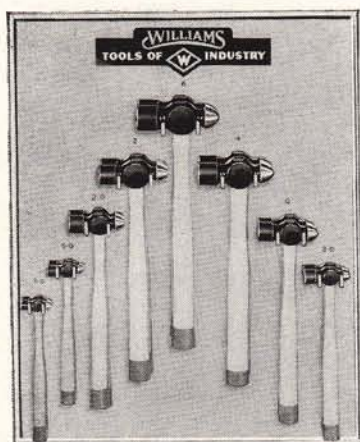
No. 113

Dolly Blocks, Spoons, Files
and File Holder

CONTENTS

Quantity and No.	Description
2 1045	Turret Top Spoon
2 1050	Combination Spoon
2 1054	Long Curved Spoon
2 1058	Toe Dolly
2 1059	Heel Dolly
2 1060	General Purpose Dolly
2 1068	Low Crown Dolly
2 1070	Heavy Duty Dolly
2 1150	File Holder
6 14"	Flexible File

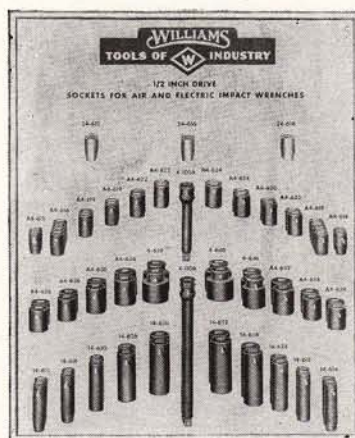
WILLIAMS' TOOL DISPLAY BOARDS — 24 x 30 INCHES



No. 114
Ball Pein Hammers

CONTENTS

Quantity and No.	Description
2 7-0	2 oz. Ball Pein Hammer.....
2 5-0	1/4 lb. Ball Pein Hammer.....
2 3-0	1/2 lb. Ball Pein Hammer.....
2 2-0	3/4 lb. Ball Pein Hammer.....
2 0	1 lb. Ball Pein Hammer.....
2 2	1-1/2 lb. Ball Pein Hammer.....
2 4	2 lb. Ball Pein Hammer.....
2 6	2-1/2 lb. Ball Pein Hammer.....



No. 116
1/2" Drive Impact
"Supersockets" and Extensions

CONTENTS

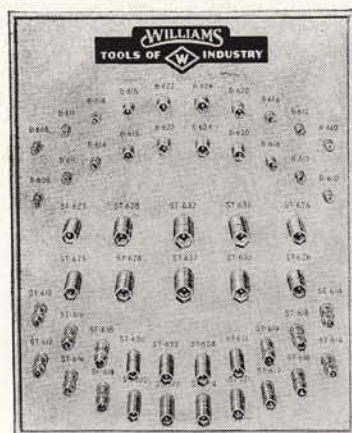
Qty. & No.	Description	Qty. & No.	Description
2 A4-612	3/8" Alt. Hex...	2 14-612	3/8" Bolt Cl. Hex
2 A4-614	1/2" Alt. Hex...	2 14-614	1/2" Bolt Cl. Hex
4 A4-616	3/4" Alt. Hex...	2 14-616	3/4" Bolt Cl. Hex
4 A4-618	1/2" Alt. Hex...	2 14-618	1/2" Bolt Cl. Hex
4 A4-619	3/4" Alt. Hex...	2 14-619	3/4" Bolt Cl. Hex
4 A4-620	1/2" Alt. Hex...	2 14-620	1/2" Bolt Cl. Hex
4 A4-622	3/4" Alt. Hex...	2 14-622	3/4" Bolt Cl. Hex
4 A4-624	1/2" Alt. Hex...	2 14-624	1/2" Bolt Cl. Hex
4 A4-626	3/4" Alt. Hex...	2 14-626	3/4" Bolt Cl. Hex
4 A4-628	1/2" Alt. Hex...	2 14-628	1/2" Bolt Cl. Hex
4 A4-630	3/4" Alt. Hex...	2 14-630	3/4" Bolt Cl. Hex
2 A4-632	1" Alt. Hex...	2 14-632	1" Bolt Cl. Hex
2 A4-634	1 1/4" Alt. Hex...	2 24-614	1 1/4" Self Tapping
2 4-636	1 1/2" Std. Hex...	2 24-616	1 1/2" Self Tapping
2 4-638	1 3/4" Std. Hex...	2 4-105A	1 3/4" Dr. Ext. 5"
2 4-640	2" Std. Hex...	2 4-110A	2" Dr. Ext. 10"



No. 117
5/8" Drive Impact
"Supersockets" and Extensions

CONTENTS

Qty. & No.	Description	Qty. & No.	Description
3 5-618	3/8" Std. Hex...	2 5-640	1 1/4" Std. Hex...
3 5-620	1/2" Std. Hex...	3 15-618	3/8" Bolt Cl. Hex
3 5-622	3/4" Std. Hex...	3 15-620	1/2" Bolt Cl. Hex
3 5-624	1/2" Std. Hex...	3 15-622	3/4" Bolt Cl. Hex
3 5-625	3/4" Std. Hex...	3 15-624	1/2" Bolt Cl. Hex
3 5-626	1/2" Std. Hex...	3 15-625	3/4" Bolt Cl. Hex
3 5-628	3/4" Std. Hex...	3 15-626	1/2" Bolt Cl. Hex
3 5-630	1/2" Std. Hex...	3 15-628	3/4" Bolt Cl. Hex
3 5-632	3/4" Std. Hex...	3 15-630	1/2" Bolt Cl. Hex
3 5-634	1/2" Std. Hex...	3 15-632	3/4" Bolt Cl. Hex
2 5-636	1 1/4" Std. Hex...	2 15-634	1 1/4" Bolt Cl. Hex
		3 5-106A	5/8" Dr. Ext. 6"
		3 5-110A	5/8" Dr. Ext. 10"

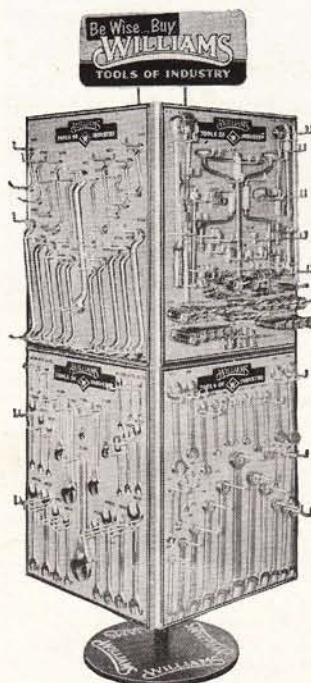


No. 118
3/8" Drive Bantam and 1/2" Drive
Standard Six-Point "Supersockets"

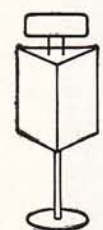
CONTENTS

Qty. & No.	Description	Qty. & No.	Description
4 B-608	1/4" 6-Pt....	4 ST-618	3/8" 6-Pt....
4 B-610	3/16" 6-Pt....	4 *SF-618	3/8" 6-Pt....
4 B-611	1/8" 6-Pt....	4 ST-619	1/2" 6-Pt....
4 B-612	3/16" 6-Pt....	4 ST-620	3/8" 6-Pt....
4 B-614	1/8" 6-Pt....	4 ST-621	1/2" 6-Pt....
4 B-616	3/16" 6-Pt....	4 ST-622	1/8" 6-Pt....
4 B-618	1/8" 6-Pt....	4 ST-624	3/4" 6-Pt....
4 B-620	3/16" 6-Pt....	4 ST-625	1/2" 6-Pt....
4 B-622	1/8" 6-Pt....	4 ST-626	1/8" 6-Pt....
4 B-624	3/16" 6-Pt....	4 ST-628	3/8" 6-Pt....
4 ST-612	3/8" 6-Pt....	4 ST-630	1/2" 6-Pt....
4 ST-614	1/2" 6-Pt....	4 ST-632	1" 6-Pt....
4 ST-616	3/4" 6-Pt....		

WILLIAMS' REVOLVING PEDESTAL DISPLAYS



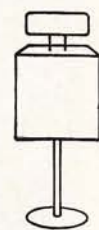
Only four square feet of floor space are required to display these complete tool department merchandisers. Available in four



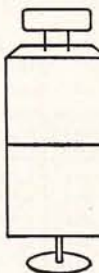
No. PD-3B



No. PD-6B



No. PD-4B



No. PD-8B

sizes, each with colorful top sign and ball-bearing revolving action. Designed for Williams 24 x 30" display panels in arrangements as illustrated. Make your own tool display combination which will best fit your requirements from Williams wide selection of tool display panels.

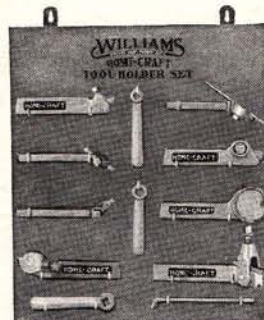
Display No.	No. of Panels Your Choice	Overall Hgt.
PD-3B	3	71"
PD-4B	4	71"
PD-6B	6	86"
PD-8B	8	86"

WILLIAMS' "HOME-CRAFT" TOOL HOLDER SET



In Metal Case
Weight, 7 Lbs.

On Wood Panel
Weight, 8.6 Lbs.



Williams "Home-Craft" Set consists of 8 Tool Holders with 3 Wrenches for all lathe operations—Turning, Cutting-Off, Boring, Threading, Knurling—and supplies a convenient, efficient and economical equipment for those using small lathes with 7 to 10" swing.

The Holders, or Shanks, all drop-forged from a strong, tough grade of carefully selected steel, are specially heat-treated and hardened. The nose of the Holders is chamfered to permit convenient use in cramped quarters.

All Cutters are made of High Speed Steel and are carefully hardened.

Cutting-Off Blades (or Cutters) are ground ready for use.

The Threading-Tool Holder is supplied with a Formed Cutter, the point of which is ground to an included angle of 60°. In re-sharpening it is necessary to grind the top edge only.

The Boring-Tool is furnished with Bar 1/4" round by 5" long, with point offset and ground; a 1/4" square turning cutter is also included.

The Knurling-Tool is fitted with "Diamond" pattern Knurls for medium work (21 pitch). Knurls for fine (33 pitch) or coarse (14 pitch) work are available if desired. "Straight Line" Knurls can also be furnished.

When ordering, please state whether Panel or Case is wanted.

New No.	Old No.	Tool Holder	Size Shank	Cutter: High Speed Steel	Pkg Qty.
2010-S	0-S H	Turning—Straight Shank.....	3/8 x 1 1/2	1/4 Sq.	1
2010-R	0-R H	Turning—R. H. Offset Shank.....	3/8 x 1 1/2	1/4 Sq.	1
2010-L	0-L H	Turning—L. H. Offset Shank.....	3/8 x 1 1/2	1/4 Sq.	1
2040	0-K H	Knurling.....	3/8 x 3/4	*Med.	1
2020-S	N-20-R H	Cut-Off—R. H. Straight Shank.....	3/8 x 1 1/2	*3/8 x 5/8	1
2020-R	N-30-R H	Cut-Off—R. H. Offset Shank.....	3/8 x 1 1/2	*3/8 x 5/8	1
2050	C-50H	Threading—with Formed Cutter.....	3/8 x 3/4	*Formed	1
2030	15 H	Boring—Reversible—R. or L. Hand.	3/8 x 3/4	1/4 Sq. { 1/4 rd. x 5	1

* All finished, ready for use.

WILLIAMS' "HOME-CRAFT" DROP-FORGED LATHE DOGS



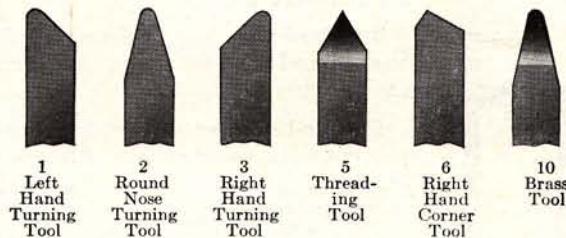
Williams "Home-Craft" Dogs are drop-forged—not cast—and consequently, are light but unusually strong and durable. Made especially for home-craft work; screws are hardened for lasting service.

* Opening in each Dog is 1/16" over listed "Capacity" to easily accommodate rough or irregular pieces.

Number	*Capacity	Packaged Quantity
72-H	1/2	1
73-H	3/4	1
74-H	1	1
76-H	1-1/2	1

WILLIAMS' "HOME-CRAFT" FINISHED CUTTERS

High Speed Steel—1/4" Square



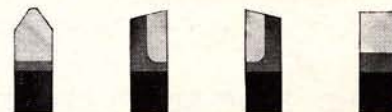
SET OF 6 CUTTERS
In Cardboard Box
Weight, .25 Lb.

These ready-to-use "Home-Craft" Cutters are made of High Speed Steel. All are carefully ground to shape and hardened in electric furnaces, with atmosphere, temperature and time under absolute control. Long service is assured.

This Set of 6 Cutters of the forms illustrated cares for practically all lathe needs of school and home workers.

WILLIAMS' CARBIDE TIPPED TURNING CUTTER BITS

With Square Shanks



80° Round Nose Left Hand Right Hand Square Nose

Williams CARBIDE TIPPED Turning Cutter Bits are available in four standard cutter shapes and two grades to fit square shank holders. Grade 883 with shanks lacquered Gray are designed for machining cast iron, brass, bronze, aluminum and non-metallics. Grade 78B with shanks lacquered Orange are designed for machining steel. These grades will be found satisfactory for general shop use; Gray for all non-ferrous metals, etc. and Orange for all steels.

These firmly cemented carbide tips are finely ground ready for use and are individually covered with a protective ethyl cellulose sheath. This sheath is easily removed and can be replaced when cutters are not in use.

Please specify Grade desired when ordering:

Gray for Cast Iron, etc., Orange for Steel.

Right Hand		Left Hand		SQUARE SHANK TURNING CUTTERS		
New No.	Old No.	New No.	Old No.	Shank Size	Tip Size	Packaged Quantity
AR-4	M-41	AL-4	M-71	1/4 x 1/4 x 2 1/4	3/32x3/16x5/16	6
AR-5	M-42	AL-5	M-72	5/16x5/16x2 1/4	3/32x1/4 x 1/2	6
AR-6	M-43	AL-6	M-73	3/8 x 3/8 x 2 1/2	3/32x1/4 x 1/2	6
AR-7	M-44	AL-7	M-74	7/16x7/16x3	3/32x1/4 x 1/2	4
AR-8	M-45	AL-8	M-75	1/2 x 1/2 x 3 1/2	1/8 x 5/16x5/8	4
AR-10	M-47	AL-10	M-77	5/8 x 5/8 x 4	5/32x3/8 x 3/4	4
Square Nose		80° Rd. Nose		Shank Size	Tip Size	Packaged Quantity
New No.	Old No.	New No.	Old No.			
C-4	M-11	D-4	M-121	1/4 x 1/4 x 2 1/4	1/16x1/4 x 5/16	6
C-5	M-12	D-5	M-122	5/16x5/16x2 1/4	3/32x5/16x3/8	6
C-6	M-13			3/8 x 3/8 x 2 1/2	3/32x3/8 x 3/8	6
		D-6	M-123	3/8 x 3/8 x 2 1/2	3/32x3/8 x 1/2	6
C-7	M-14	D-7	M-124	7/16x7/16x3	3/32x7/16x1/2	4
C-8	M-15			1/2 x 1/2 x 3 1/2	1/8 x 1/2 x 1/2	4
		D-8	M-125	1/2 x 1/2 x 3 1/2	1/8 x 1/2 x 9/16	4
C-10	M-17	D-10	M-127	5/8 x 5/8 x 4	5/32x5/8 x 5/8	4

WILLIAMS' DEEP THROAT STANDARD PATTERN DROP-FORGED "C" CLAMPS FOR LIGHT DUTY



Standard for body-builders, wood-workers and kindred trades. All parts except screws are shot-blasted.

Spatter-Resisting for welding, completely Cadmium-plated to resist the adherence of welding spatter to the body, swivel and screw.

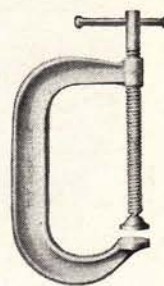
Both were designed for use where the clearance provided by a deep throat is required, as in body building, welding,

No.	Capacity		Depth of Throat from Center of Screw	Extreme Dimensions of Body		Screw		Weight Each, Lbs.		
	Max.	Min.		Length	Width	Diam.	Length Over All	Screw and Swivel	Extra Swivel Only	Clamps Complete
402	2	0	2	4 7/8	3 3/4	1/2	4 3/4	.28	.03	1.1
403	3	0	2 3/8	6 1/8	4 1/8	1/2	6	.34	.03	1.5
404	4	0	2 3/4	7 5/8	4 3/4	5/8	8 1/8	.69	.06	2.3
406	6	0	3 5/8	10 1/4	6	5/8	10 1/4	.81	.06	3.8
408	8	2	4 1/2	12 3/4	7	3/4	10 5/8	1.3	.06	5.5
410	10	3	5 3/8	15 1/4	8 1/8	3/4	11 3/4	1.4	.06	8.3
412	12	4	5 3/4	18	9 3/8	7/8	13	2.1	.13	12.5

WILLIAMS' DEEP THROAT SPATTER RESISTING DROP-FORGED "C" CLAMPS FOR LIGHT DUTY

wood working, etc. Drop-forged from an unusually strong special steel and heat-treated for maximum strength, they combine dependable strength with minimum weight.

The Screws, fitted with adjustable handle, are made from tough, wrought steel, heat-treated and threaded especially for strength and rapid adjustment. Furnished with wrought steel Swivel, as illustrated.



No.	Capacity		Depth of Throat from Center of Screw	Extreme Dimensions of Body		Screw		Weight Each, Lbs.		
	Max.	Min.		Length	Width	Diam.	Length Over All	Screw and Swivel	Extra Swivel Only	Clamps Complete
402-S	2	0	2	4 7/8	3 3/4	1/2	4 3/4	.28	.03	1.1
403-S	3	0	2 3/8	6 1/8	4 1/8	1/2	6	.34	.03	1.5
404-S	4	0	2 3/4	7 5/8	4 3/4	5/8	8 1/8	.69	.06	2.3
406-S	6	0	3 5/8	10 1/4	6	5/8	10 1/4	.81	.06	3.8
408-S	8	2	4 1/2	12 3/4	7	3/4	10 5/8	1.3	.06	5.5
410-S	10	3	5 3/8	15 1/4	8 1/8	3/4	11 3/4	1.4	.06	8.3
412-S	12	4	5 3/4	18	9 3/8	7/8	13	2.1	.13	12.5

Williams line also includes tools listed below. Additional information and prices furnished on request.

WILLIAMS' HIGH SPEED CUTTERS



Williams High Speed Cutters are available for use with Turning, Threading, Cutting-Off and Side, Boring and Planing-Tool Holders. Require minimum of grinding for use. All cutters are hardened.

WILLIAMS' TOOL HOLDERS



Available in a wide range of patterns for complete lathe service — Turning, Boring, Knurling, Threading, Cutting-Off and Side work and Planing. Sold individually and in sets.



WILLIAMS' LATHE DOGS

All are drop-forged and fully heat-treated. Available for regular and heavy service with safety or non-safety screws. Capacities range from 3/8" to 6". Clamp Lathe Dogs can also be furnished.

♦ REGISTERED TRADE MARK

WILLIAMS' DROP-FORGED "C" CLAMPS



All Williams "C" Clamps are drop-forged from a strong, tough grade of carefully selected steel, heat-treated for added strength. Available in six styles including Machinists', Tool-Makers', General and Heavy Service patterns in a wide range of sizes.

WILLIAMS' ♦ "SUPERECTOR" REVERSIBLE RATCHET WRENCHES



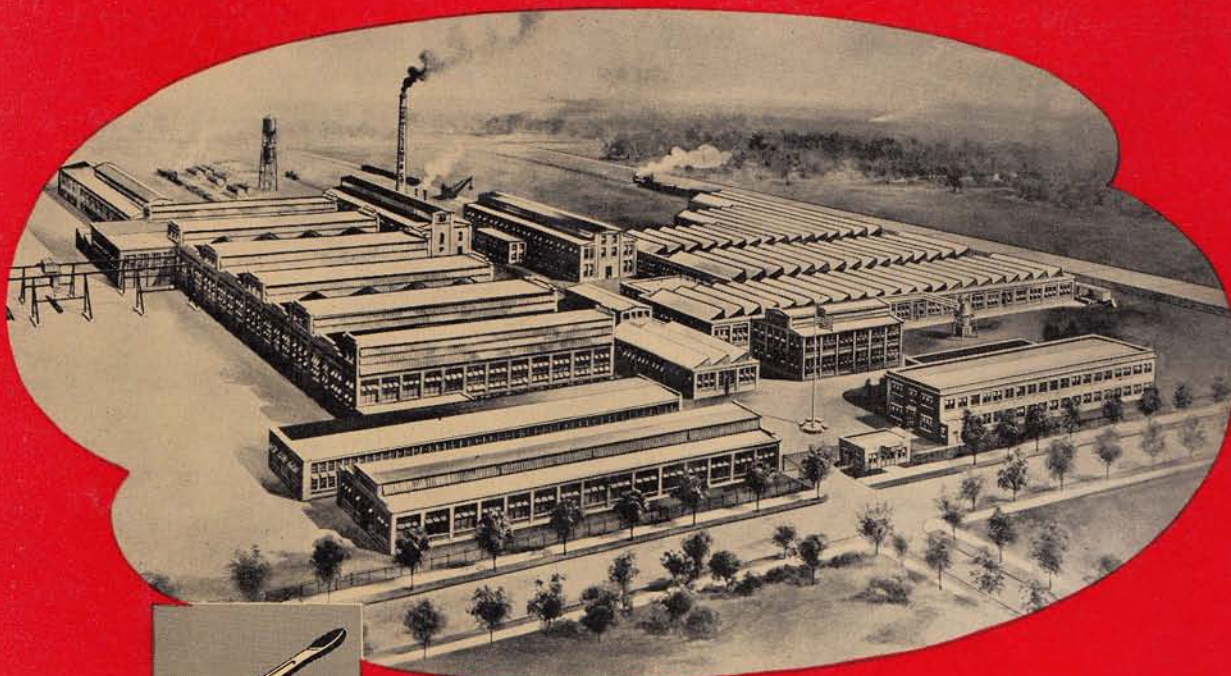
PATENTED

For extremely heavy service. Drop-forged ratchet handles available in 24", 36", 48" and 53" lengths. Hex and square socket openings range from 1" to 4-5/8".

WILLIAMS' WHITWORTH AND METRIC WRENCHES AND SOCKETS



Double head open-end wrenches, 12-point double offset box wrenches and detachable sockets are available in a full range of Whitworth and Metric openings.



CARBON AND ALLOY STEEL WRENCHES IN ALL TYPES • DETACHABLE SOCKETS AND PARTS • IMPACT SOCKETS • TOOL SETS • TOOL HOLDERS • "C" CLAMPS • LATHE DOGS • CHAIN PIPE TONGS AND VISES • FLANGE-JACKS • HOIST HOOKS • EYE BOLTS • ROD ENDS • THUMB NUTS AND SCREWS • PLIERS • SCREWDRIVERS • PUNCHES AND CHISELS • SOFT-FACE "NUPLAFLEX" TIPPED HAMMERS • CRANK AND BALANCE HANDLES • FENDER REPAIR TOOLS

We guarantee all our products to be free from imperfections of workmanship and materials.

J. H. WILLIAMS & CO.

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