

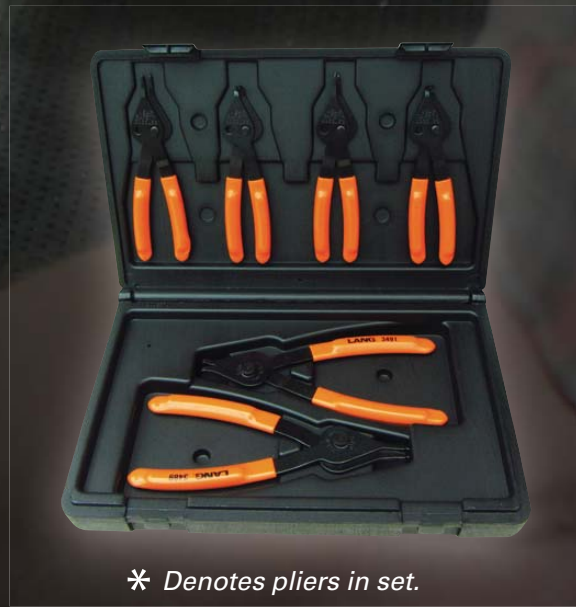
FIXED TIP RETAINING RING PLIERS

- Convertible for use on internal / external snap rings
- Cushioned grip handles
- Knurled center screw with spring for easy changing and secure hold
- Sets packaged in a plastic blow molded case for protection and easy use
- Individual pliers packaged in a plastic hanger

Part No.	Tip Diameter (in.)	Tip Angle	Nominal length (in.)
* 3483	.038	0°	6
* 3484	.038	45°	6
* 3485	.038	90°	6
* 3486	.047	0°	6
* 3487	.047	45°	6
* 3488	.047	90°	6
* 3489	.070	0°	7-1/2
* 3490	.070	45°	7-1/2
* 3491	.070	90°	7-1/2
* 3492	.090	0°	9-1/4
* 3493	.090	45°	9-1/4
* 3494	.090	90°	9-1/4



3497
6 PIECE COMBINATION
INTERNAL/EXTERNAL
SNAP RING PLIERS SET



* Denotes pliers in set.

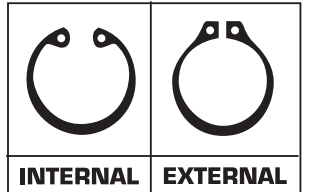
3495
12 PIECE COMBINATION
INTERNAL/EXTERNAL
SNAP RING PLIERS SET



Part No.	Description	Ring Size	
		SAE (Inch)	Metric
3495	Internal	3/8" - 3"	10mm - 76mm
	External	1/8" - 3-1/2"	3mm - 89mm
3497	Internal	3/8" - 2"	10mm - 51mm
	External	1/4" - 2"	7mm - 51mm

QUICK SWITCH CONVERTIBLE RETAINING RING PLIERS

- Convert between internal / external with a quick flip of a switch
- Eliminates the jaw aligning process
- Cushion grip, spring return handles
- Tip kit included with every pliers
- Patented



1421
QUICK SWITCH PLIERS WITH
ADJUSTABLE STOP AND TIP KIT

1434
QUICK SWITCH PLIERS
WITH TIP KIT

1435
QUICK SWITCH PLIERS WITH
ADJUSTABLE STOP AND TIP KIT

1450
2-PC. QUICK SWITCH
RETAINING RING PLIERS SET



- Contains Models: 1421 and 1434
- Tip Kits Include: color-coded, interchangeable tips and hex key

1485
HEAVY DUTY SNAP
RING PLIERS- INTERNAL



1486
HEAVY DUTY SNAP
RING PLIERS- EXTERNAL



- Spring ratchet locking mechanism securely holds against snap ring tension
- Optional .120", 45° & 90° tips available (sold separately)

75
QUICK SWITCH PLIERS WITH
AUTOMATIC RATCHET LOCK
AND TIP KIT



- Automatic ratchet lock feature keeps rings open or closed for easy installation and removal

1465
3-PC. QUICK SWITCH
RETAINING RING PLIERS SET



- Contains Models: 1421, 1434 & 75
- Tip Kits Include: color-coded, interchangeable tips and hex key

Part No.	Description	Ring Size	
		SAE (Inch)	Metric
1421	Internal	1/4" - 1"	7mm - 26mm
	External	1/8" - 1"	3mm - 26mm
1434	Internal	3/8" - 2"	10mm - 51mm
	External	1/4" - 2"	7mm - 51mm
1435	Internal	3/8" - 2"	10mm - 51mm
	External	1/4" - 2"	7mm - 51mm
75	Internal	1-13/16" - 4"	46mm - 102mm
	External	1-1/2" - 4"	32mm - 102mm
1450	Internal	1/4" - 2"	7mm - 51mm
	External	1/8" - 2"	3mm - 51mm
1465	Internal	1/4" - 4"	7mm - 102mm
	External	1/8" - 4"	3mm - 102mm
1485	Internal	3-1/16" - 6-1/4"	78mm - 159mm
1486	External	3-1/2" - 6-1/2"	89mm - 165mm

Part No.	Tips	Tip Sizes	
		SAE (Inch)	Metric
1421	Straight	0.023", 0.039", 0.047"	0.6mm, 1.0mm, 1.2mm
	Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
1434	Straight	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
	Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
1435	Straight	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
	Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
75	Bent 15°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
	Bent 70°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
	Straight	0.023", 0.039", 0.047", 0.074"	0.6mm, 1.0mm, 1.2mm, 1.9mm
1450	Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
	Straight	0.023", 0.039", 0.047", 0.074"	0.6mm, 1.0mm, 1.2mm, 1.9mm
	Bent 15°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
1465	Bent 70°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
	Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
	Straight	0.023", 0.039", 0.047", 0.074"	0.6mm, 1.0mm, 1.2mm, 1.9mm
1485	Straight	0.120"	3.0mm
1486	Straight	0.120"	3.0mm

REPLACEABLE TIP PLIERS

87 HEAVY-DUTY PLIERS WITH TIP KIT



- Provides safe and stable service of extra large retaining rings
- Compound screw lever for easy ring installation and removal
- Durable heat treated alloy steel components provide reliability of use not available with other tools for servicing this range of rings

Part No.	Description	Ring Size	
		SAE (Inch)	Metric
87	Internal	3-1/2" - 7"	90mm - 175mm
	External	3-1/2" - 7"	90mm - 175mm

Part No.	Tips	Tip Sizes	
		SAE (Inch)	Metric
87	Bent 20°	0.120", 0.150", 0.180"	3.0mm, 3.8mm, 4.6mm
	Bent 72°	0.120", 0.150", 0.180"	3.0mm, 3.8mm, 4.6mm

RETAINING RING PLIERS TIP KITS

Part No.	Models	Tips	Tip Sizes	
			SAE (Inch)	Metric
12	1421	Straight	0.023", 0.039", 0.047"	0.6mm, 1.0mm, 1.2mm
		Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
14	1434,1435	Straight	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
		Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
6515	75	Bent 15°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
6590	75	Bent 70°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
651590	75	Bent 15°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
		Bent 70°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
8600	1485,1486	Straight	0.120"	3.0mm
8645	1485,1486	Bent 45°	0.120"	3.0mm
8690	1485,1486	Bent 90°	0.120"	3.0mm
8720	87	Bent 20°	0.120", 0.150", 0.180"	3.0mm, 3.8mm, 4.6mm
8790	87	Bent 72°	0.120", 0.150", 0.180"	3.0mm, 3.8mm, 4.6mm

HOSE-PLIERS

145 HOSE PINCH-OFF PLIERS



- Eliminates the need to drain cooling system when servicing
- Squeezes hoses shut and jaws swivel for parallel clamping
- Pliers include automatic locking ratchet

3444 LARGE HOSE CLAMP PLIERS



- For use on flat type hose clamps
- Fine tooth locking ratchet
- For heavy-duty jobs

3975 HOSE CLAMP PLIERS



- For Corbin style hose clamps
- Slotted tips rotate to grip at any angle

3976 HOSE CLAMP PLIERS



- For flat type hose clamps
- Tips rotate to grip at any angle

3977 ANGLED HOSE CLAMP PLIERS



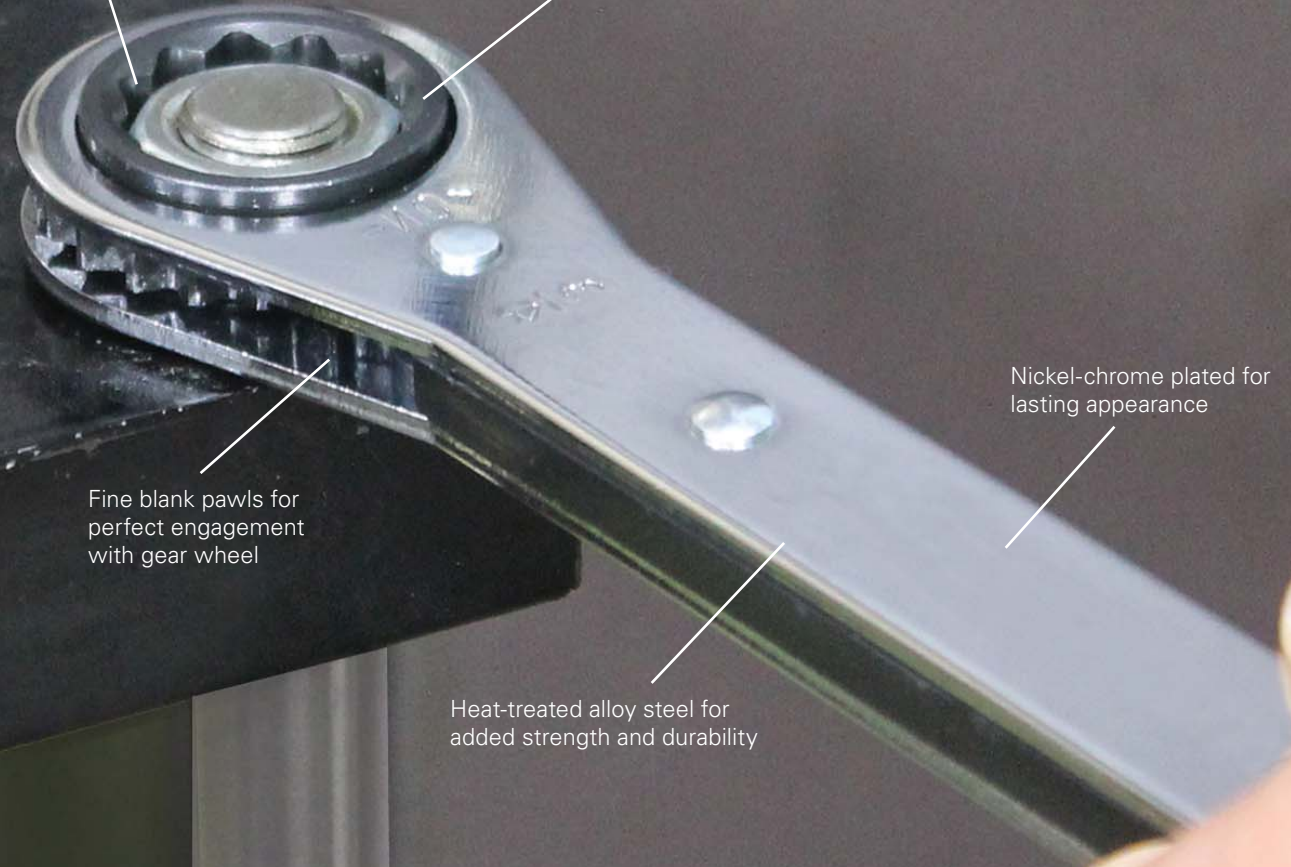
- For flat type hose clamps
- Angle feature provides easy access to clamps located in hard-to-reach areas

LET RATCHETING BOX WRENCHES SPEED UP YOUR JOB!

Those "hard-to-get-at" nuts and bolts are easy to turn with these top quality ratcheting box wrenches. Openings are accurately broached for that perfect non-slip fit. Critical parts are heat-treated to ensure safety and durability. Wrench handles are nickel-chrome plated for lasting quality and assurance. Exceeds torque capacity requirement of Federal specification ASME B107.100-2010 for ratcheting box wrenches.

Accurately broached sizes for perfect, no-slip fit

Alloy heat-treated gear wheel for strength and long life



Fine blank pawls for perfect engagement with gear wheel

Nickel-chrome plated for lasting appearance

Heat-treated alloy steel for added strength and durability

All Lang 6 & 12 point ratcheting box wrenches utilize the "torque grip system"



TORQUE GRIP



CONVENTIONAL