

SCMTSA-500S

Operation and Maintenance Manual



1/2" Air Ratchet



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INTRODUCTION

The **Sidchrome™ SCMTSA-500S** is a precision-built tool, designed for professionals, for torque assembly and disassembly of threaded fasteners. This tool will deliver efficient, dependable service when used correctly and with care. As with any fine power tool, for best performance the manufacturer's instructions must be followed. Please study this manual before operating the tool and understand the safety warnings and instructions. The instructions on installation, operation and maintenance should be read carefully, and the manuals kept for reference. NOTE: Additional safety measures may be required because of your particular application of the tool. Contact your **Sidchrome** representative or distributor with any questions concerning these tools and their use.

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IMPORTANT SAFETY INFORMATION ENCLOSED. READ THIS MANUAL BEFORE OPERATING THE MACHINE.

FAILURE TO OBSERVE THE FOLLOWING WARNINGS COULD RESULT IN INJURY.



Do not use damaged, frayed or deteriorated air hoses and fittings.



Always wear hearing protection when operating this tool.



Air powered tools can vibrate in use. Vibration, repetitive motions or uncomfortable positions may be harmful to your hands and arms. Stop using any tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use.



Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool.



Do not carry the tool by the hose.



Always wear eye protection when operating or performing maintenance on this tool.



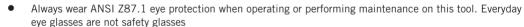
Keep body stance balanced and firm. Do not overreach when operating this tool.



Operate at 90 psig (6.2 bar / 620 kPa) Maximum air pressure.

GENERAL SAFETY INSTRUCTIONS





- Always wear hearing protection when operating this tool
- Keep hands, loose clothing and long hair away from rotating end of tool
- Anticipate and be alert for sudden changes in motion during start up and operation of any power tool
- Keep body stance balanced and firm. Do not overreach when operating this tool
- Do not operate this tool for long periods of time. Vibration caused by tool action may be harmful to your hands and arms. Stop using any tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use
- Use impact rated accessories recommended by Sidchrome only. Inspect accessories before use. Do not
 use cracked or damaged accessories
- Do not operate this tool in the presence of flammable liquids, gasses, dust, or explosive atmospheres
- This tool is not insulated against electric shock
- Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting
 any accessory on this tool, or before performing any maintenance on this tool
- For safety, top performance, and maximum durability of parts, operate this tool at 90 psig
 (6.2 bar / 620 kPa) maximum air pressure at the inlet with 3/8" (10mm) inside diameter air supply hose
- Do not use damaged, frayed or deteriorated air hoses and fittings
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel
- Do not remove any labels. Replace any damaged label



SPECIFICATIONS

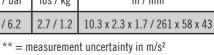
Closed head for reduced maintenance and longer life



			SP	ECIFIC	ATIONS	8				
Model #	Square Drive	Max Torque			Noise	Level			Vibra Le	ation vel
	in	ft-lbs / NM	Pressure dB(A) Power dB(A) Pressure dB(C)		m,	/s²				
SCMTSA-500S	1/2	80 / 108	99	3*	110	3*	113	3*	9.10	1.40**

Model #	Free Speed	Average Air Consumption	Working Pressure	Weight	Dimensions
	rpm	cfm/I/min	psi / bar	lbs / kg	in / mm
SCMTSA-500S	280	4.0 / 113	90 / 6.2	2.7 / 1.2	10.3 x 2.3 x 1.7 / 261 x 58 x 43

^{*} = measurement uncertainty in dB(A)



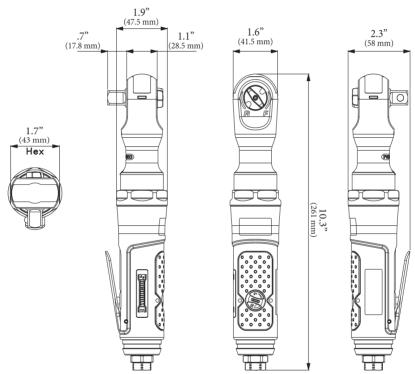
1/4″ NPT FULL FLOW[®] FITTING

AIR HOSE 3/8" (10 mm) I.D. MIN.



GETTING STARTED

- Always operate, inspect and maintain this tool in accordance with all regulations (local, state, federal and country) that may apply to hand-held / hand-operated pneumatic tools
- Be sure all hoses and fittings are the correct size and are tightly secured
- Always use clean, dry air at 90 psig maximum air pressure. Dust, corrosive fumes and/or excessive
 moisture can ruin the motor of an air tool
- The use of a hose whip is recommended. A coupler connected directly to the air inlet increases tool bulk and decreases tool maneuverability
- For maximum performance, the coupler on the wall should be the next size larger than the coupler used on the tool. The coupler closest to the tool should not be less than the proper air supply hose size



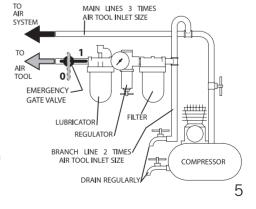
PLACING TOOL IN SERVICE

LUBRICATION



Always use an air line lubricator with this tool. After every eight hours of operation, if a lubricator is not used on the compressed air network, inject 1/2 to 1 cc of approved air tool oil through the tool's inlet connection. Recommended air tool oil available from Sidchrome SCMTSATO-250.

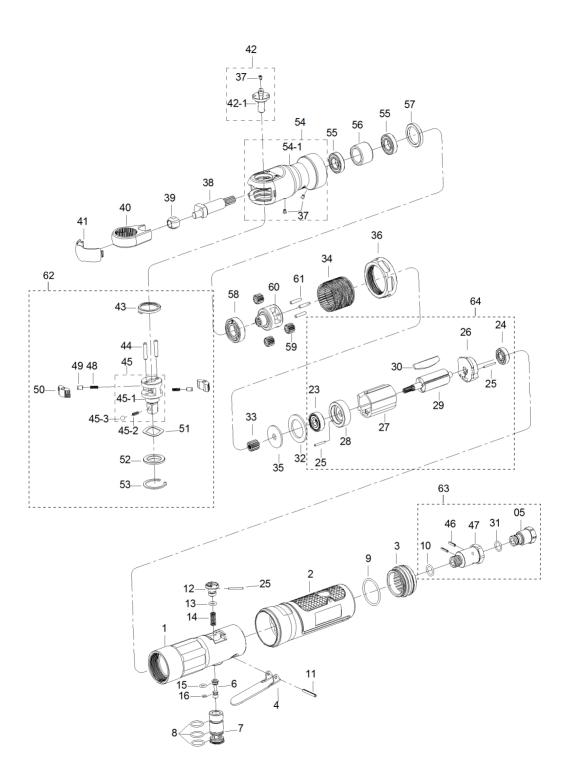
After every forty-eight hours of operation, or as experience indicates, inject about 4 cc of approved pneumatic grease into the grease fitting.















ITEM #	PART#	DESCRIPTION	QTY
54	31H200026	RATCHET HOUSING	1
54-1	Pre-Assembled	Ratchet Housing	1
37	Pre-Assembled	Grease Fitting	2
62	31K100107	1/2" RATCHET ANVIL KIT	1
45	Pre-Assembled	Ratchet Anvil Assembly	1
43	loose	Thrust Washer	1
44	Pre-Assembled	Pin	2
48	Pre-Assembled	Ratchet Spring	2
49	Pre-Assembled	Ratchet Lock Pin	2
20	Pre-Assembled	Ratchet Pawl	2
51	loose	Wave Washer	1
25	loose	Thrust Washer	1
23	loose	Retaining Ring	1
63	31K100109	INLET FOR ARS	1
2	Pre-Assembled	Air Inlet	1
10	Pre-Assembled	O-Ring	1
31	Pre-Assembled	O-Ring	1
46	Pre-Assembled	Spring Pin	2
47	Pre-Assembled	Air inlet connector	1
64	31K100111	MOTOR FOR ARS	1
23	Pre-Assembled	Ball Bearing	1
24	Pre-Assembled	Ball Bearing	1
25	Pre-Assembled	Spring Pin	2
26	Pre-Assembled	Rear End Plate	1
27	Pre-Assembled	Cylinder	1
28	Pre-Assembled	Front End Plate	1
29	Pre-Assembled	Rotor	1
30	Pre-Assembled	Rotor Blade	4
	31K100113	TUNE-UP KIT	1
8		O-Ring	3
6		O-Ring	1
13		O-Ring	1
14		Spring	1
15		O-Ring	1
16		O-Ring	1

SCMTSA-500S 1/2" Standard Air Ratchet 1 31H2000323 Motor Housing 1 2 31H200032 Rubber Grip 1 4 31P2000074 Exhaust Deflector 1 6 31P200010 Triegger 1 1 31P200011 Air Regulator 1 11 31R2000274 Spring Pin 1 25 31R2000275 Washer 1 33 31G200027 Ring Gear 1 34 31G200027 Spring Pin 1 38 31R200275 Washer 1 40 31D200059 Ratchet Housing Cover 1 41 31R200282 Prachet Housing Cover 1 43 31R200288 Ratchet Housing Cover 1 51 31R200289 Ratchet Housing Cover 1 52 31R200288 Ratchet Housing Cover 1 52 31R200288 Retaining Ring 5 53 31R200288 Ball Bearing <th>ITEM #</th> <th>PART#</th> <th>DESCRIPTION</th> <th>QTY</th>	ITEM #	PART#	DESCRIPTION	QTY
31H200023 Motor Housing		SCMTSA-500S	1/2" Standard Air Ratchet	
31H200023 Motor Housing				
31H200035 Rubber Grip 31Y200074 Exhaust Deflector 31Y200005 Trigger 31P200010 Throttle Valve Plunger 31P200011 Air Regulator 31R200020 Spring Pin 31R2000274 Spring Pin 31R2000275 Washer 31R2000276 Washer 31R2000275 Washer 31R2000276 Pinion Gear 31R2000277 Ring Gear 31R2000278 Ratchet Voke 31R200059 Ratchet Housing Cover 31R200058 Patchet Washer 31R2000287 Thrust Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200289 Ball Bearing 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Grease Fitting Pre-Assembled Grease Fitting Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball	1	31H200023	Motor Housing	1
317200074 Exhaust Deflector 31P200005 Trigger 31P200010 Throttle Valve Plunger 31P200011 Air Regulator 31P200012 Air Regulator 31R200274 Spring Pin 31R200275 Washer 31R200275 Washer 31R200276 Pinion Gear 31R200276 Washer 31R200276 Washer 31R200027 Ring Gear 31R200027 Ring Gear 31R200028 Parchet Yoke 31R200058 Parchet Housing Cover 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200287 Ball Bearing 31R200288 Ball Bearing 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200280 Planet Gear 31R200280 Planet Gear 31R200280 Planet Gear 31R200281 Retaining Ring 31R200282 Planet Gear 31R200284 Busher 31R200285 Ball Bearing 31R200286 Planet Gear 31R200287 Racket Anoll Pre-Assembled Grease Fitting Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball	2	31H200035	Rubber Grip	1
31P200005 Trigger 31P200010 Throttle Valve Plunger 31P200011 Air Regulator 31R200270 Spring Pin 31R200274 Spring Pin 31R200274 Spring Pin 31R200275 Washer 31R200276 Washer 31R200276 Washer 31R200027 Ratchet Voke 31R200057 Crank shaft 31R200058 Barthet Voke 31R200059 Ratchet Housing Cover 31R200280 Ratchet Housing Cover 31R200280 Ratchet Housing Cover 31R200281 Ratchet Housing Cover 31R200282 Ball Bearing Ring 31R200283 Retaining Ring 31R200284 Bushing Ring 31R200285 Ball Bearing 31R200285 Ball Bearing 31R200286 Ball Bearing 31R200287 Thrust Washer 31R200289 Ball Bearing 31R200280 Planet Gear 31R200280 Planet Gear 31R200280 Ratchet Anvil Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Steel Bal	3	31Y200074	Exhaust Deflector	1
31P200010 Throttle Valve Plunger 31P200011 Air Regulator 31R200270 Spring Plin 31R200274 Spring Plin 31R200275 Washer 31R200275 Washer 31R2000276 Pinion Gear 31R2000276 Pinion Gear 31R2000276 Washer 31R2000276 Washer 31R200027 Ring Gear 31R200027 Ratchet Housing Cover 31R200058 Ratchet Housing Cover 31R200059 Ratchet Housing Cover 31R2000287 Thrust Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Ratchet Anvill Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spring	4	31P200005	Trigger	1
31P200011 Air Regulator 31R200270 Spring Pin 31R200274 Spring Pin 31R200274 Spring Pin 31R200275 Washer 31R200276 Pinion Gear 31R200027 Ring Gear 31R200027 Ring Gear 31R200027 Ring Gear 31R200058 Crank shaft 31D200059 Ratchet Housing Cover 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200289 Bail Bearing 31R200287 Thrust Washer 31R200289 Bail Bearing 31R200289 Bail Bearing 31R200289 Bail Bearing 31R200289 Planet Gear 31R200289 Planet Gear 31R200299 Planet Gear 31R200289 Planet Gear 31R20029 Ratchet Anvill Pre-Assembled Ratchet Anvill Pre-Assembled Steel Ball Spring	9	31P200010	Throttle Valve Plunger	1
31R200270 Spring Pin 31R200012 Air Regulator 31R200274 Spring Pin 31R200275 Washer 31R200205 Pinion Gear 31R200025 Washer 31R200027 Ring Gear 31R200027 Washer 31D200059 Coupling Nut 31D200057 Crank shaft 31D200059 Ratchet Voke 31R200057 Thrust Washer 31R200028 Ratchet Housing Cover 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200289 Ball Bearing 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spring	7	31P200011	Air Regulator	1
31P200012 Air Regulator 31R200274 Spring Pin 31R200275 Washer 31G200026 Pinion Gear 31G200027 Ring Gear 31L2000276 Washer 31L2000277 Crank shaft 31D200058 Drive Bushing 31D200059 Ratchet Voke 31R200027 Thrust Washer 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200289 Pall Bearing 31R200289 Pall Bearing 31R200289 Pall Bearing 31R200289 Pall Bearing 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spring	11	31R200270	Spring Pin	1
31R200274 Spring Pin 31R200275 Washer 31R200026 Pinion Gear 31R200027 Ring Gear 31R200027 Ring Gear 31R200027 Crank shaft 31D2000057 Crank shaft 31D2000059 Ratchet Voke 31R200029 Ratchet Housing Cover 31R200282 Wave Washer 31R200282 Retaining Ring 31R200283 Spacer 31R200284 Bushing 31R200285 Ball Bearing 31R200286 Ball Bearing 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200288 Ball Bearing 31R200289 Ball Bearing 31R200280 Planet Gear 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting RATCHET ANVIL ASSEMBLY Pre-Assembled Steel Ball Spring Pre-Assemble	12	31P200012	Air Regulator	1
31R200275 Washer 31G200026 Pinion Gear 31G200027 Ring Gear 31R200276 Washer 31R200256 Coupling Nut 31D200058 Crank shaft 31D200058 Drive Bushing 31R200059 Ratchet Yoke 31R200075 Ratchet Housing Cover 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200288 Ball Bearing 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200289 Ball Bearing 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spring	25	31R200274	Spring Pin	1
31G200026 Pinion Gear 31G200027 Ring Gear 31A200025 Washer 31H200055 Coupling Nut 31D200058 Drive Bushing 31D200059 Ratchet Yoke 31R200075 Ratchet Housing Cover 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200289 Ball Bearing 31R200289 Bushing 31G200028 Planet Gear 31G200028 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spring	32	31R200275	Washer	1
31G200027 Ring Gear 31R200276 Washer 31R20025 Coupling Nut 31D200053 Crank shaft 31D200059 Prive Bushing 31D200059 Ratchet Yoke 31R200075 Ratchet Housing Cover 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200289 Ball Bearing 31R200284 Bushing Ring 31R200285 Ball Bearing 31R200289 Ball Bearing 31G200028 Planet Gear Brook Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spring	33	31G200026	Pinion Gear	1
31R200276 Washer 31H200025 Coupling Nut 31D200057 Crank shaft 31D200058 Drive Bushing 31D200059 Ratchet Voke 31R2020059 Ratchet Housing Cover 31R202028 Ratchet Housing Cover 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200289 Ball Bearing 31R200284 Bushing Ring 31R200285 Ball Bearing 31R200285 Ball Bearing 31R200286 Ball Bearing 31R200287 Planet Gear 31R200289 Planet Gear 31R200289 Ractionale (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Ratchet Anvil Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball	34	31G200027	Ring Gear	1
31H200025 Coupling Nut 31D200057 Crank shaft 31D200058 Drive Bushing 31D200059 Ratchet Voke 31BZ00075 Ratchet Housing Cover 31RZ00277 Thrust Washer 31RZ00287 Thrust Washer 31RZ00287 Thrust Washer 31RZ00288 Retaining Ring 31RZ00289 Bail Bearing 31RZ00284 Bushing 31RZ00285 Ball Bearing 31RZ00285 Planet Gear 31RZ00029 Raverse Knob Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spr	35	31R200276	Washer	1
31D200057 Crank shaft 31D200058 Drive Bushing 31D200059 Ratchet Voke 31R200027 Thrust Washer 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200288 Ball Bearing 31R200029 Ball Bearing 31R200284 Bushing 31R200285 Ball Bearing 31R200285 Planet Gear 31G200028 Planet Gear 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assemb	98	31H200025	Coupling Nut	1
31D200058 Drive Bushing 31D200059 Ratchet Yoke 31D200075 Ratchet Housing Cover 31R200277 Thrust Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200289 Ball Bearing 31R200284 Bushing 81R200285 Ball Bearing 91R200285 Ball Bearing 31R200286 Ball Bearing 31R200289 Planet Gear 31R200289 Planet Gear 31R200289 Planet Gear 31R200289 Planet Gear 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spring	38	31D200057	Crank shaft	1
31D200059 Ratchet Voke	39	31D200058	Drive Bushing	1
31Y200075 Ratchet Housing Cover 31R200277 Thrust Washer 31R200282 Wave Washer 31R200282 Thrust Washer 31R200288 Retaining Ring 31R200283 Spacer Spacer 31R200283 Spacer Bushing 31R200285 Ball Bearing 31R200285 Ball Bearing 31R200285 Ball Bearing 31R200285 Planet Gear 31G200028 Planet Gear 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Ratchet Anvil Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Steel St	40	31D200059	Ratchet Yoke	1
31R200277 Thrust Washer 31R200282 Wave Washer 31R200287 Thrust Washer 31R200283 Retaining Ring 31R200283 Spacer 31R200284 Bushing 31R200285 Ball Bearing 31R200286 Ball Bearing 31R200287 Bushing 31R20028 Bushing 31R20028 Bushing 31R20028 Bushing 31R20028 Bushing 31R20028 Bushing 31R20028 Planet Gear 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting RATCHET ANVIL ASSEMBLY Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Steel Ba	41	31Y200075	Ratchet Housing Cover	1
31R200282 Wave Washer 31R200287 Thrust Washer 31R200288 Retaining Ring 31R200283 Spacer 31R200284 Bushing Ring 31R200285 Ball Bearing 31R200285 Ball Bearing 31R200286 Bushing Ring 31R20028 Bushing Ring 31R20028 Bushing Ring 31R20028 Bushing Ring 31R20029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting Bre-Assembled Grease Fitting Bre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spr	43	31R200277	Thrust Washer	1
31R200287 Thrust Washer 31R200288 Retaining Ring 31R200289 Ball Bearing 31R200284 Bushing 31R200285 Bushing 31R200285 Bushing 31R200028 Planet Gear 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting S1D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spring	51	31R200282	Wave Washer	1
31R200288 Retaining Ring 31R200099 Ball Bearing 31R200283 Spacer 31R200284 Bushing 31R200285 Ball Bearing 31R200028 Planet Gear 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball	52	31R200287	Thrust Washer	1
31R200099 Ball Bearing 31R200283 Spacer 31R200284 Bushing 31R200285 Ball Bearing 31R200028 Ball Bearing 31G200029 Work Spindle (incl.6.1(3)) Pre-Assembled Reverse Knob ASSEMBLY Pre-Assembled Grease Fitting S1D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Grease Fitting S1D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Steel Ball Spring Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Steel Ball Steel Ball Steel Ball Steel Stee	23	31R200288	Retaining Ring	1
31R200283 Spacer 31R200284 Bushing 31R200285 Ball Bearing 31R200028 Planet Gear 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting S1D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assem	22	31R200099	Ball Bearing	2
31R200284 Bushing 31R200285 Ball Bearing 31G200028 Planet Gear 31G200029 Work Spindle (incl.61(3)) Pre-Assembled Reverse KNOB ASSEMBLY Pre-Assembled Grease Fitting Pre-Assembled RATCHET ANVIL ASSEMBLY Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Ste	99	31R200283	Spacer	1
31R200285 Ball Bearing 31G200028 Planet Gear 31G200029 Work Spindle (incl.61(3)) 31Y10001 REVERSE KNOB ASSEMBLY Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting S1D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Steel Ball Spring Pre-Assembled	57	31R200284	Bushing	1
31G200028 Planet Gear 31G200029 Work Spindle (incl.61(3)) 31Y10001 REVERSE KNOB ASSEMBLY Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting S1D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Steel Ball Spring Pre-As	28	31R200285	Ball Bearing	1
31G200029 Work Spindle (incl.61(3)) S17100001 REVERSE KNOB ASSEMBLY Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting S1D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spring Steel Ball Spring Pre-Assembled Steel Ball Spring Ste	59	31G200028	Planet Gear	3
STY100001 REVERSE KNOB ASSEMBLY	09	31G200029	Work Spindle (incl.61(3)}	1
Pre-Assembled Reverse KNOB ASSEMBLY				
Pre-Assembled Reverse Knob Pre-Assembled Grease Fitting 31D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball	42	31Y100001	REVERSE KNOB ASSEMBLY	1
Pre-Assembled Grease Fitting 31D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball	42-1	Pre-Assembled	Reverse Knob	1
31D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball	37	Pre-Assembled	Grease Fitting	1
31D100029 RATCHET ANVIL ASSEMBLY Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball				
Pre-Assembled Ratchet Anvil Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball	45	31D100029	RATCHET ANVIL ASSEMBLY	1
Pre-Assembled Steel Ball Spring Pre-Assembled Steel Ball	45-1	Pre-Assembled	Ratchet Anvil	1
Pre-Assembled Steel Ball	45-2	Pre-Assembled	Steel Ball Spring	1
	45-3	Pre-Assembled	Steel Ball	1

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