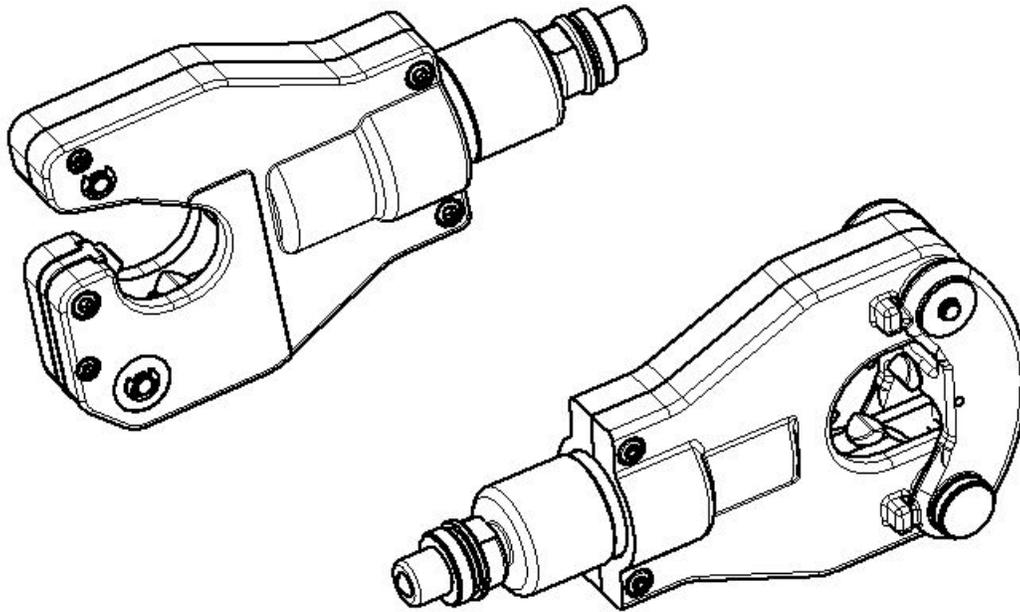




ANDERSON® Products



OWNER OPERATION MANUAL



VERSA-CRIMP® HYDRAULIC REMOTE HEAD TOOLS VC6FTR-SP, VC6R-SP, VC7FTR-SP, & VC7R-SP



Read and understand all of the instructions and safety information in this manual before operating or servicing these tools.





ANDERSON® Products

VC6FTR-SP, VC6R-SP,
VC7FTR-SP, & VC7R-SP

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SAFETY

Safety is essential in the use and maintenance of Hubbell ANDERSON® tools and equipment. This instruction manual and any decals on the tools provide information for the avoidance of hazards and unsafe practices related to the use of the tools. Observe all of the safety information provided.

WARNING: THIS TOOL HEAD IS NOT FOR USE ON ENERGIZED LINES WITHOUT USE OF NON-CONDUCTIVE ACCESSORIES. FAILURE TO COMPLY WITH THIS WARNING COULD RESULT IN SERIOUS BODILY INURY.

PURPOSE

This instruction manual is intended to familiarize operators and maintenance personnel with the safe operation, troubleshooting, and repair procedures for the Hubbell ANDERSON® VERSA-CRIMP® tools: VC6FTR-SP, VC6R-SP, VC7FTR-SP, & VC7R-SP.

Keep manual available to all personnel.

For replacement manuals visit www.hubbellpowersystems.com.



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SAFETY SYMBOLS & INFORMATION



SAFETY* ALERT SYMBOL

This symbol is used to call your attention to hazards or unsafe practices which could result in any injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.



DANGER

Immediate hazards which, if not avoided, WILL result in severe injury or death.



WARNING

Hazards which, if not avoided, COULD result in severe injury or death.



CAUTION

Hazards or unsafe practices which, if not avoided, MAY result in injury or property damage.



WARNING

Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

Failure to observe this warning can result in severe injury or death.



WARNING

Electric shock hazard:

This tool is not insulated. When using this unit near energized electrical lines use proper personal protective equipment.

Failure to observe this warning can result in severe injury or death.



WARNING

- Keep hands away from the crimping tool head when crimping.

Failure to observe these warnings can result in severe injury or death.



WARNING



Skin injection hazard:

Oil under pressure easily punctures skin causing serious injury, gangrene or death. If you are injured by escaping oil, seek medical attention immediately.

- Do not use hands to check for leaks.
- Depressurize the hydraulic system before servicing.



WARNING



Wear eye protection when operating or servicing this tool.

Failure to wear eye protection can result in serious eye injury from flying debris or hydraulic oil.



WARNING

An incomplete crimp can cause a fire.

- Use proper connector and cable combinations. Improper combinations can result in an incomplete crimp.
- The relief valve will sound to indicate a completed crimp. If you do not hear the sound of the relief valve, the crimp is not complete.

Failure to observe these warnings can result in severe injury or death.



WARNING

Inspect tool before use. Replace any worn or damaged parts. A damaged or improperly assembled tool can break and strike nearby personnel.

Failure to observe this warning can result in severe injury or death.



CAUTION

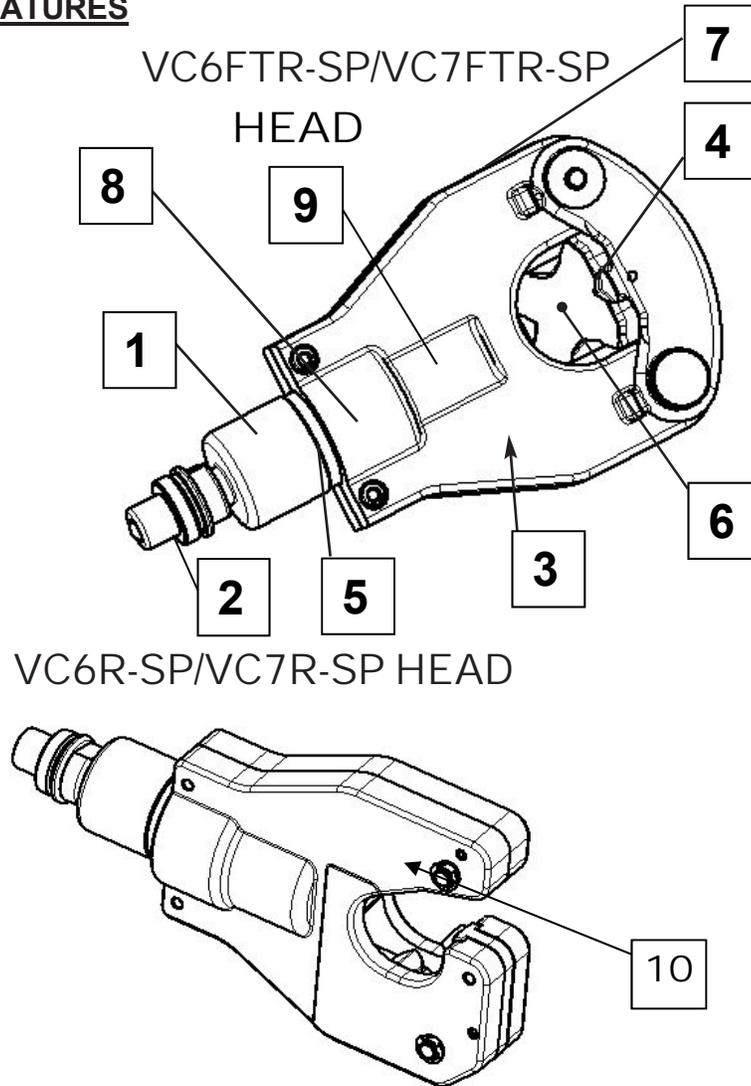
- Protect the crimping tool from rain and moisture. Water will damage the crimping tool.
- Use this tool for the manufacturer's intended purpose only.

Failure to observe these precautions can result in injury or property damage.

* Reference ANSI Z535.4 latest rev. and color chart



IDENTIFICATION & FEATURES



Tool purpose: The VC6FTR-SP, VC6R-SP, VC7FTR-SP, & VC7R-SP hydraulic remote head crimping tools are self-contained dieless crimping tools intended to crimp aluminum and copper connectors onto electrical conductor cable.

- | | |
|--|--|
| 1. Hydraulic Cylinder | 6. Head opening accommodates up to 750 kcmil conductor |
| 2. Hydraulic Fitting | 7. Serial numbers on head halves |
| 3. Crimping Head | 8. Safety decals |
| 4. Crimping Nibs (x4) | 9. Description and application |
| 5. Rotating head at neck/serial # location | 10. VC6R-SP/VC7R-SP Head Version |



ANDERSON® Products

VC6FTR-SP, VC6R-SP,
VC7FTR-SP, & VC7R-SP

SPECIFICATIONS

Crimping Tool

Length	11.8" (300 mm)
Width	5.5" (140 mm)
Height	2.4" (61 mm)
Weight	7.1 lbs (3.22 kg)
Pump Type	Remote
Hydraulic Oil	Shell Tellus

Crimping Capabilities

Cable size (Aluminum/Copper)*	#10 to 750 kcmil max
Operating pressure	10,400 psi (71.7 MPa)
Crimping Force	6.2 tons (55kN)
Crimping Time	Approximately 15 seconds



OPERATION

The VC6FTR-SP, VC6R-SP, VC7FTR-SP, & VC7R-SP hydraulic hand tools are ruggedly designed and simple to operate. There are no dies to change out. The tools have built in “nibs” within the head.

This tool is designed to operate with a hydraulic power source which is factory set between 10,200 PSI and 10,400 PSI. Pressure less than 9,800 PSI will result in inadequate crimping and pressure greater than 10,400 PSI will result in over crimping and possible damage to both tool and crimped connections. An inline pressure gauge (VCLPG) may be purchased for checking operating pressure.

CAUTION: This tool does not contain a hydraulic relief mechanism! High pressure protection must be provided in power sources.

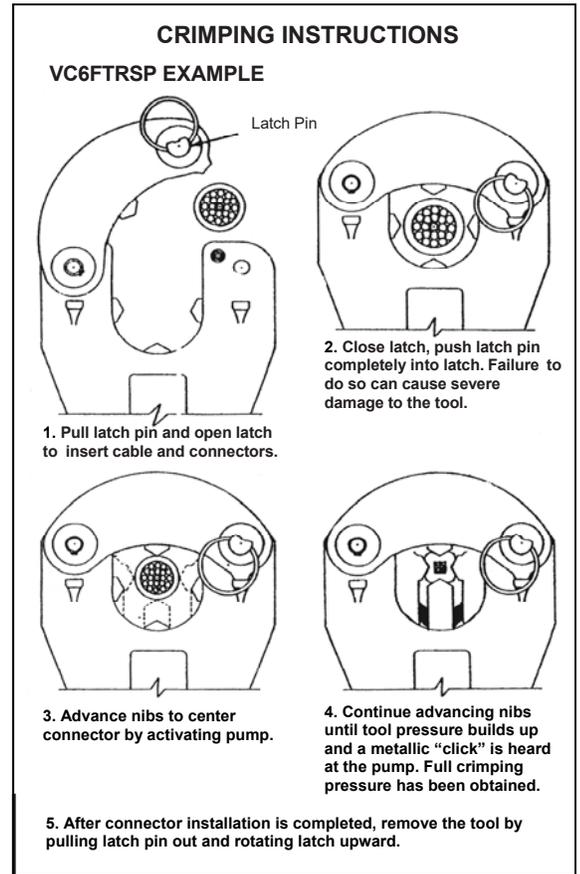
Two basic configurations used in VERSA-CRIMP® connectors are 1) the sleeve and 2) the open groove. The following illustrations and commentary are provided to show how the tool is operated when installing these two types of connector configurations:

CONDUCTOR PREPARATION

Strip insulation from the conductor, being careful not to nick the strands. A proper insulation stripping tool or using the “Pencil” shaving method is recommended. Thoroughly clean the conductor by wire brushing until a bright shiny surface is obtained. All oxides and foreign matter must be removed.

NOTE: Do not wire brush tin-plated copper conductors or tinned connectors.

WARNING: Certain small service sleeve connectors can severely damage the tool by becoming wedged between nibs of the tool head. The connector should always be centered in the tool as the nibs are slowly advanced into position about the connector.





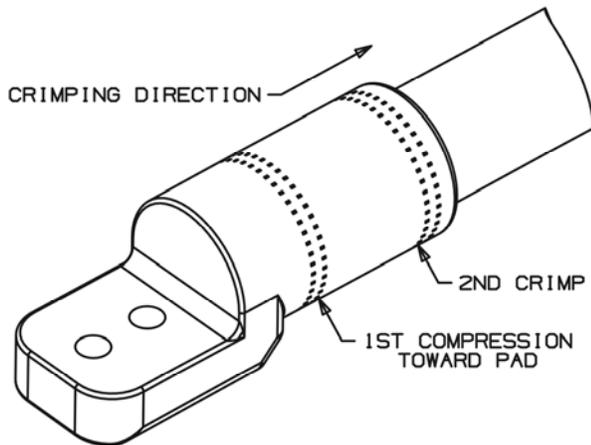
OPERATION (continued)

1. Insert cable fully into connector. Center the connector between the nibs.
2. Activate pump to advance the nibs. Keep advancing the nibs until the pressure relief valve activates at the pump with an audible “pop” sound.
3. After achieving pressure relief, discontinue activation of the pump. The ram will return to the start position and the nibs will retract.
4. Complete the number of crimps specified by Hubbell ANDERSON® connector products.

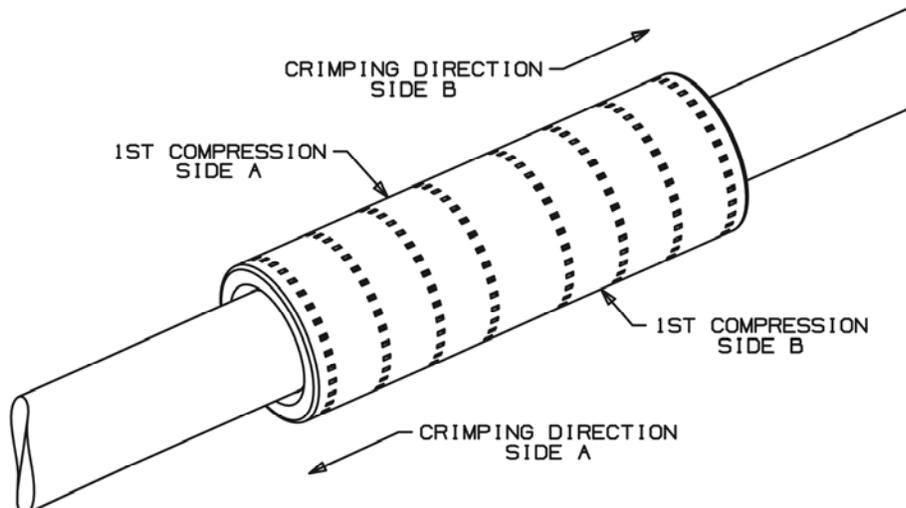
CONNECTOR/CONDUCTOR PREPARATION:

Follow all connector instructions for appropriate cable strip length and number of crimps.

TERMINALS – Start from pad end:



SPLICES – Start from either side of center and work outwards:





CARE OF HYDRAULIC TOOLS:

These tools require well-trained experienced personnel for major repairs, adjustments, or maintenance. These tools are hydraulically operated mechanisms which require a clean work area equipped with adequate tools, jobs, and fixtures for major repairs, adjustments, or maintenance. It is suggested that tools requiring repairs be returned to the factory unless overall local conditions are adequate. The factory tool department is set up to provide quick maintenance and overhaul service. See “Instructions for Returning Tools” on the following page. The following rules for field personnel, if followed, will prolong the time between major repair work and help ensure dependability of the tool:

- 1) Keep the tool clean. Dirt and grit are the worst enemies to any type of hydraulic equipment. Keep the tool in its case when not in use. Do not lay the tool on the ground. Particularly avoid joint compounds from building up on the crimping nibs. Such compounds are highly abrasive and will work into the hydraulic mechanism if not regularly removed. Wipe the entire tool thoroughly with a clean dry or slightly oily cloth after each day’s use.
- 2) Do not make adjustments to the tool. There are no adjustments on this tool which can be made in the field. If a tool becomes inoperable and the instructions in this booklet do not correct the malfunction, return it to the storeroom or other designated place and exchange it for a spare unit.
- 3) Store the tool properly. Before storing tools in their cases, be sure the nibs are fully retracted. This protects the opening ram from moisture condensation and will help assure correct operation at the next period of use; particularly is the tool is to be stored for a long time.

WARNING:

Latch pull pin must be fully inserted through head covers or tool WILL be damaged.

Crimping standard “H” frame (Double Open groove) connectors WILL cause tool damage and void any warranties.



WARNING

Do not use solvents or flammable liquids to clean the crimping tool. Solvents or flammable liquids could ignite and cause serious injury or property damage.

MAINTENANCE/ SERVICE

Regularly -

1. Inspect nibs for wear or damage such as cracks, gouges, or chips.
2. Inspect the crimping tool for damage or leaks. Have a damaged or leaking crimping tool repaired at a Hubbell ANDERSON® service center.

After Each Use –

1. Wipe all tool surfaces clean with a damp cloth and mild detergent
2. Fully retract the crimping tool and place it in the carry case. Store in a cool, dry place.

NOTE: Do not use solvents or flammable liquids to clean the tool.



MAINTENANCE/ SERVICE (continued)

Monthly –

1. Disassemble tool head per “Tool Head Disassembly” and clean parts thoroughly. Wipe parts clean and apply Dow III Compound Lubricant (or equivalent) to parts listed below and reassemble tool head. Wipe lubricant from crimping nib surfaces. Each surface requires only a thin coating. This applies to: (1) Cam Yoke, (2) Roller Bearing and Retainer, (3) Side Jaw, (4) Pivot Pins, (5) Pivot Rollers, (6) Spring Pins, (7) Spring, and (8) Inner surface of tool cover set, where cam yoke or side jaws may make contact. **Note: All Traces of lubrication should be completely removed from each tool nib before crimping.**
2. Check relief valve pressure setting using type VCLPG Pressure Gauge. (IPG) Inline Pressure Gauge may be coupled in at pump or below tool head. After gauge has been installed, cycle unit 2 or 3 times noting that indicator hand registers in green shaded area for correct operating pressure. Remove gauge and replace in carrying case. Should the gauge indicate incorrect operating pressure, adjust relief valve in pump or return pump to factory for adjustments.

Annually or every 10,000 crimps –

- Return the tool to an authorized Hubbell ANDERSON® service center for inspection and maintenance check.



WARRANTY: This tool is warranted to be free of defects in materials and workmanship for a period of two (2) years from the date purchased. Warranty coverage does not apply to repairs required due to normal wear and tear. Proof of purchase date is required for all warranty claims. Obvious misuse or abuse, repairs made or attempted by others, or the use of any non-Hubbell products resulting in damage to the tool (which can be determined at a Hubbell ANDERSON® service center) voids any warranty. If inspection by a certified tool technician shows the issue is due to defective workmanship or material, ANDERSON® will repair or (at our option) replace the tool. The use of this tool in a manufacturing process renders this warranty null and void.

INSTRUCTIONS FOR RETURNING TOOLS:

Do not ship any tool to the service and repair center without first securing permission.

Call Hubbell ANDERSON® VERSA-CRIMP® Service and Tool Repair at 1-800-426-8720.

Address:
Hubbell ANDERSON® VERSA-CRIMP® Service & Tool Repair
150 Burndy Road
Littleton, NH 03561 USA



INSPECTION PROCEDURE AFTER MAINTENANCE OR OVERHAUL

1. After repairs are completed, the tool should be cycled through several crimping operations by actuating pump to full pressure and spill off. This may be done without actually crimping any article in the tool. Any indication of air in the hydraulic system and should be corrected before completing the crimping test.
2. Rotate tool head counterclockwise (facing tool head) at least ten complete revolutions and check the following:
 - a. Check for binding.
 - b. Check for looseness.
 - c. After ten complete head revolutions, advance nibs until pump source spills off at full pressure. Discontinue activation of the pump, and check for rapid and full retraction of crimping nibs.
3. Check the full open and full closed dimensions of the crimping nibs. The dimension should be 1.600" maximum to 0.237" minimum.
4. Check for oil leaks while pumping tool.
5. Check relief valve pressure setting using type VCLPG Pressure Gauge. (IPG) Inline Pressure Gauge may be coupled in at pump or below tool head. After gauge has been installed, cycle unit 2 or 3 times noting that indicator hand registers in green shaded area for correct operating pressure. Remove gauge and replace in carrying case. Should the gauge indicate incorrect operating pressure, adjust relief valve in pump or return pump to factory for adjustments.

IF YOU HAVE CHECKED THE ABOVE WHEN YOUR TOOL IS RETURNED AND THE TOOL DOES NOT MEET ALL OF THE ABOVE REQUIREMENTS, CALL HUBBELL ANDERSON® VERSA-CRIMP® SERVICE & TOOL REPAIR IMMEDIATELY!

VCLPG PRESSURE GAUGE (RECOMMENDED)

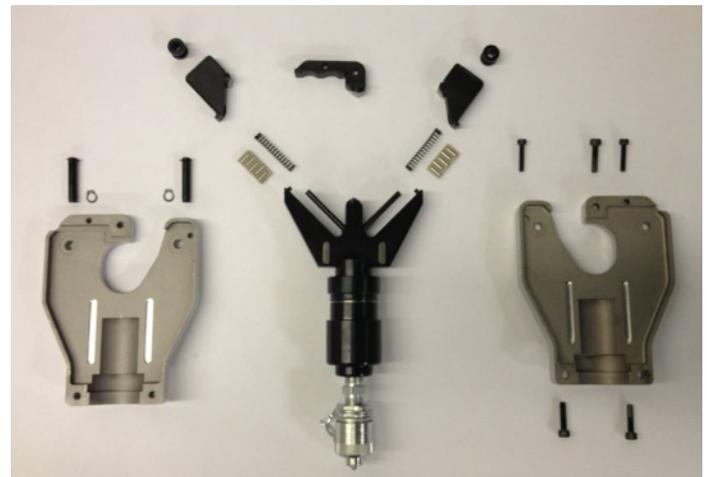
It is recommended the tool be checked for proper operating pressure periodically. The best method is by an ANDERSON® VERSA-CRIMP® VCLPG pressure gauge.



TOOL HEAD DISASSEMBLY

1. For the VC6FTRSP and VC7FTRSP, remove latch by first pulling the latch pin out and removing the snap rings on the latch pivot pin. Slide the latch pin out and remove the latch from the covers. For the VC6RSP and VC7RSP, remove the snap rings and slide out the two retaining pins.
2. Remove tool head covers by alternately unscrewing each of the four socket head screws about two or three turns each time.
3. Remove pivot rollers, bearing retainers, and side nibs.

NOTE: Care should be taken to insure that the roller bearings in the retainers do not drop out and become lost when their retainers are being handled.



TOOL HEAD ASSEMBLY

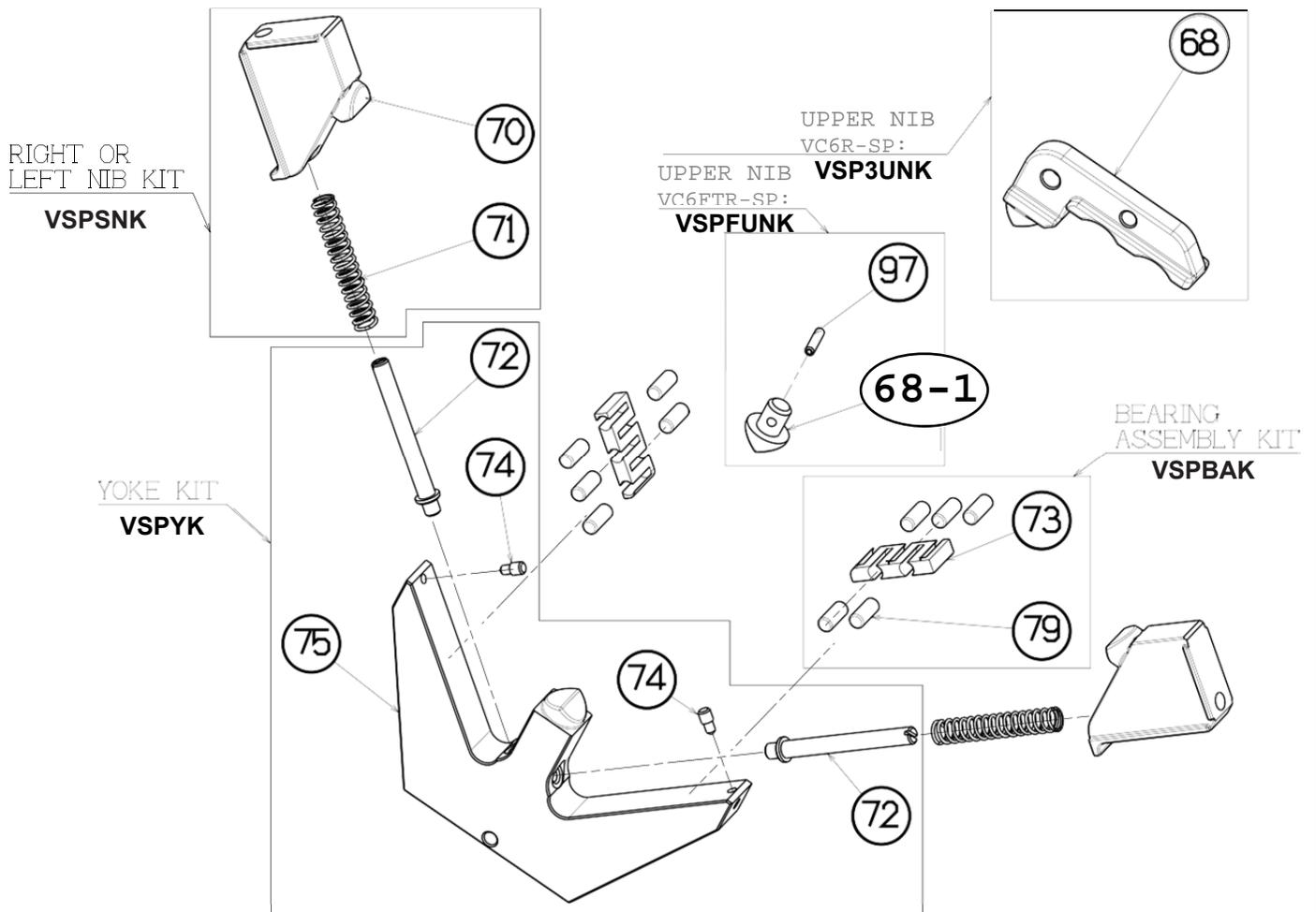
Reassemble tool head by reversing the step by step sequence recommended for disassembly. Observe the following precautions during assembly:

- The retainers for the roller bearings should be assembled into position such that the radius on one end of each retainer mates with the corresponding radius on the side nibs.



REPAIR KITS

VC6RSP & VC6FTRSP
NIB & YOKE KITS

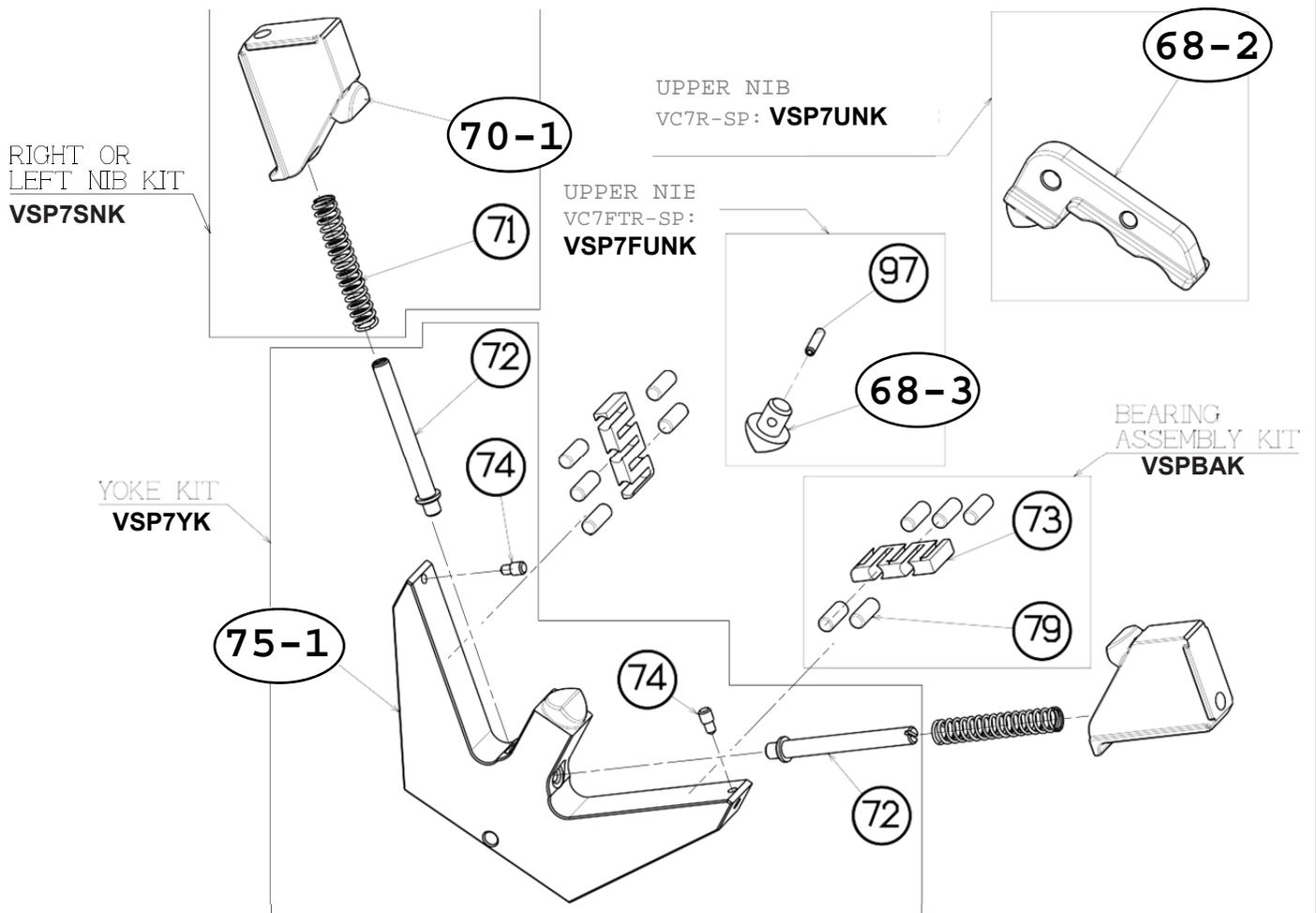


NOTE: BOLD ITEMS INCLUDED IN KIT



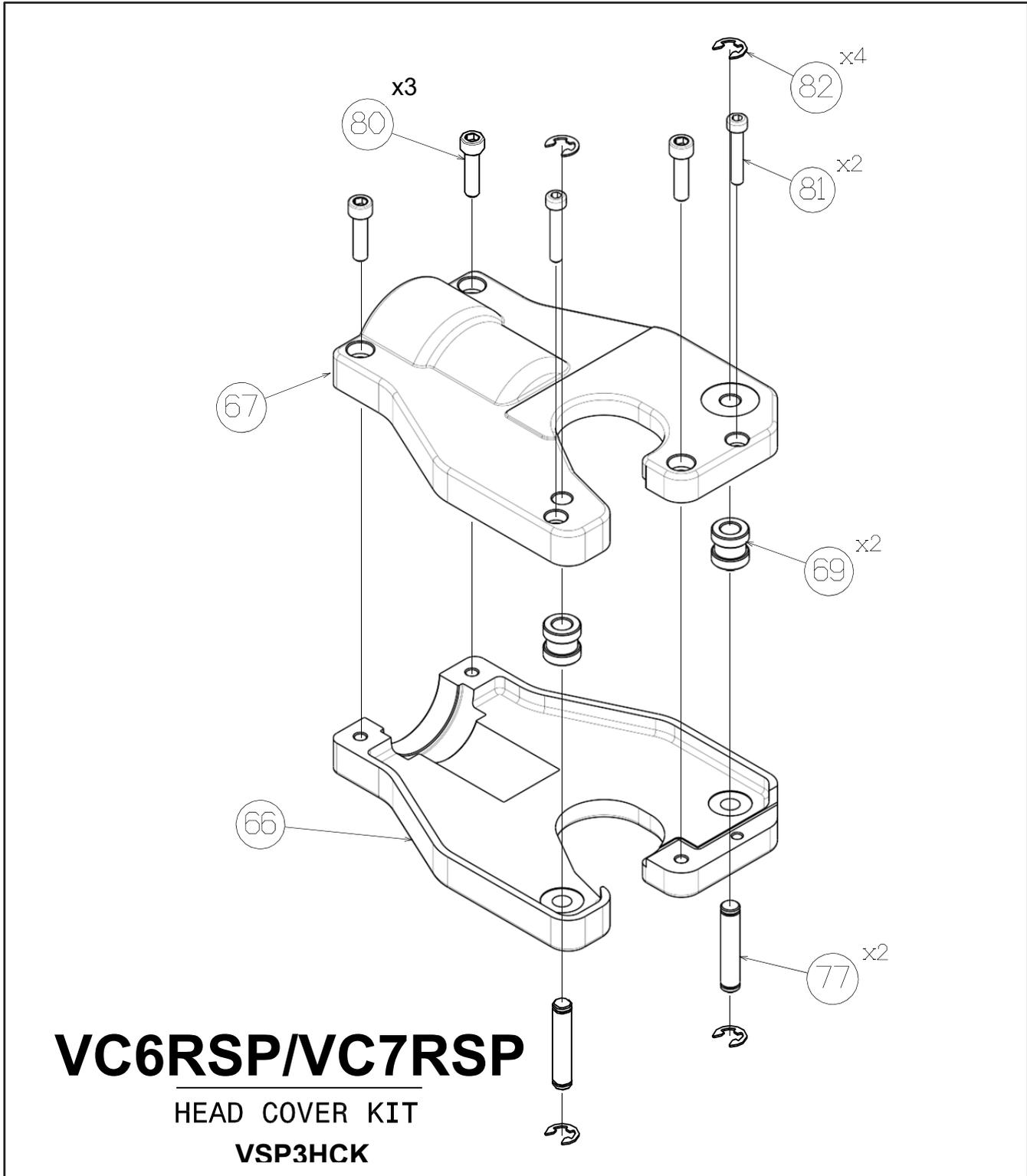
REPAIR KITS (continued)

VC7RSP & VC7FTRSP
NIB & YOKE KITS





REPAIR KITS (continued)

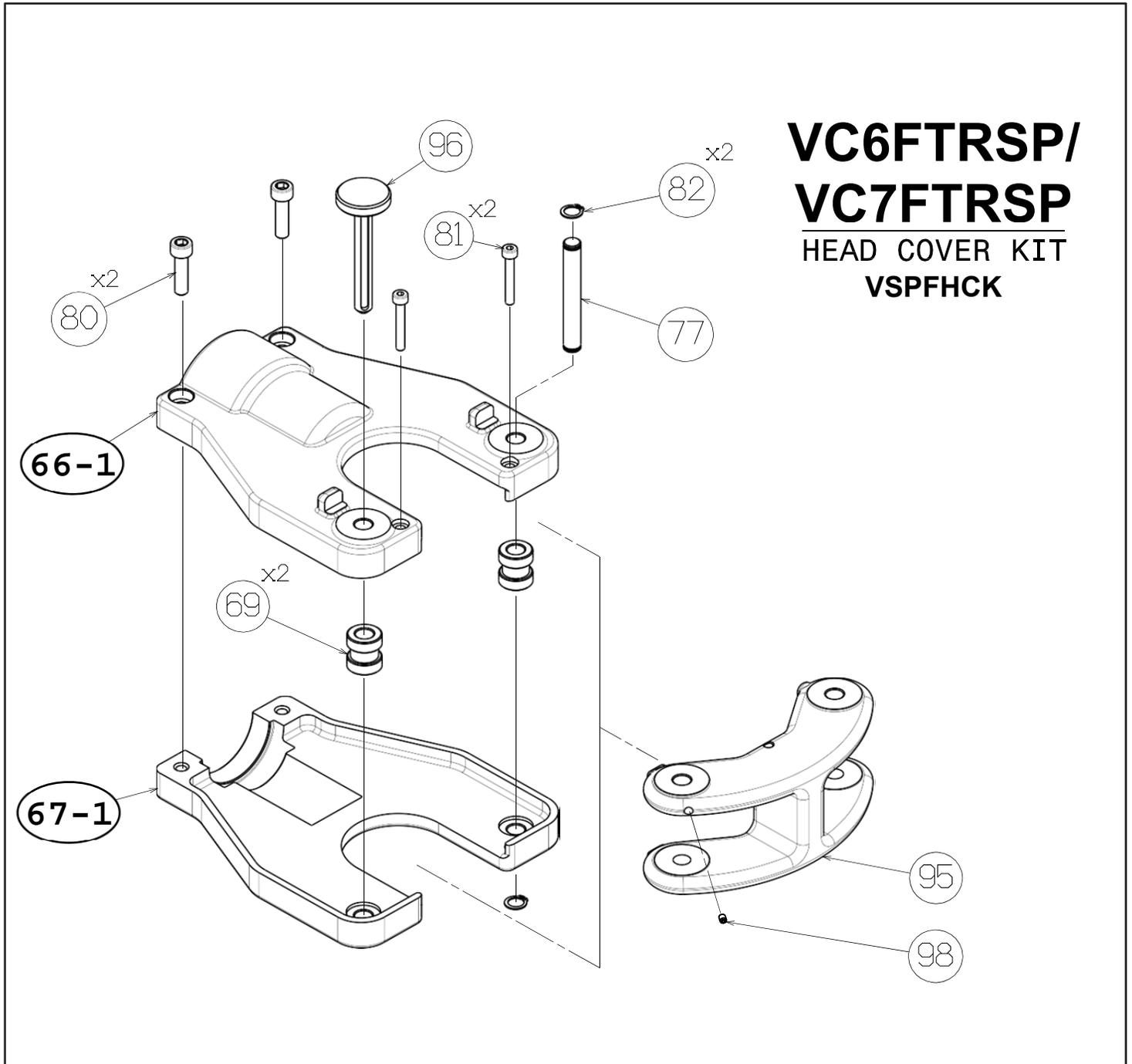




ANDERSON® Products

VC6FTR-SP, VC6R-SP,
VC7FTR-SP, & VC7R-SP

REPAIR KITS (continued)

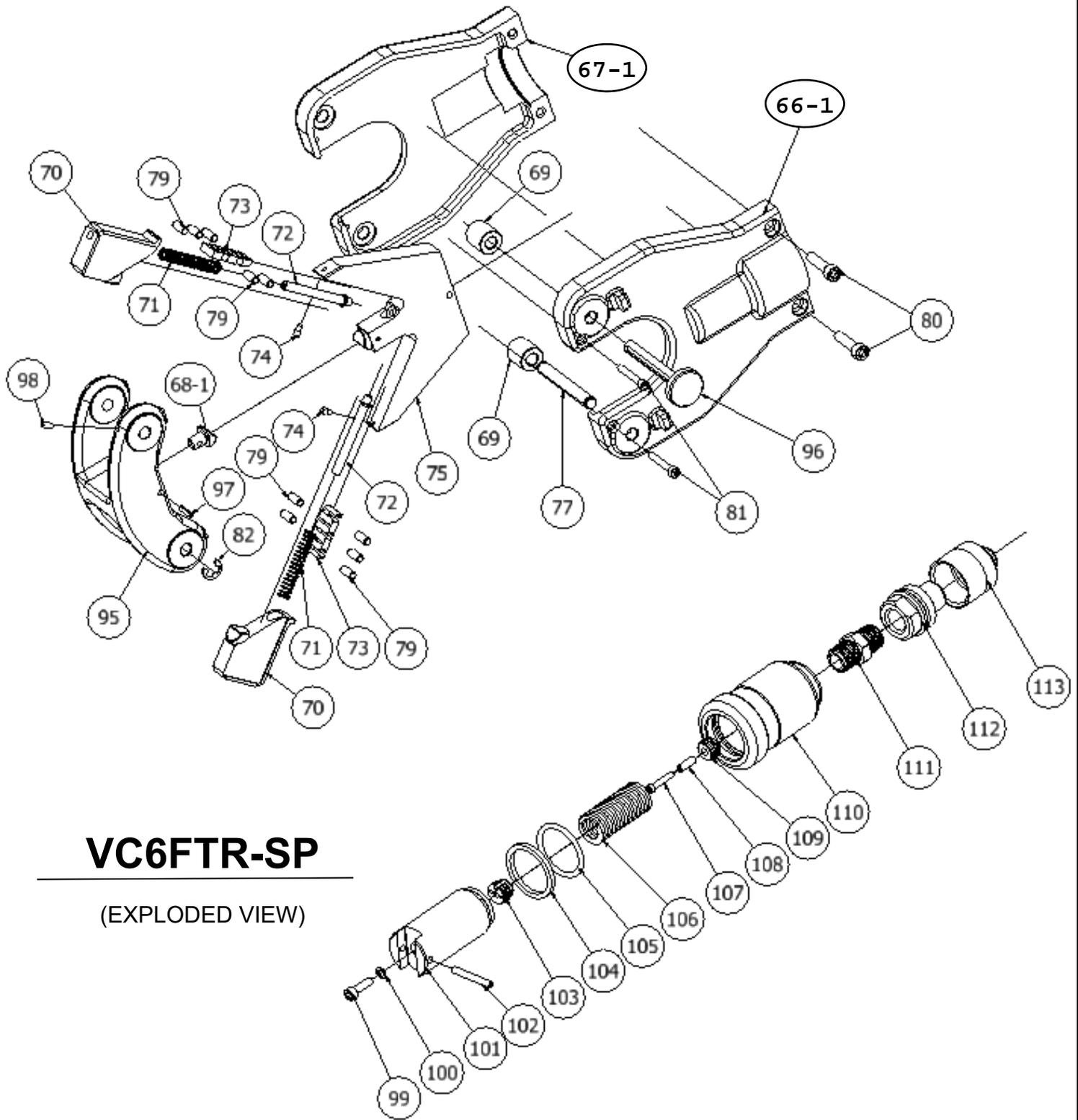




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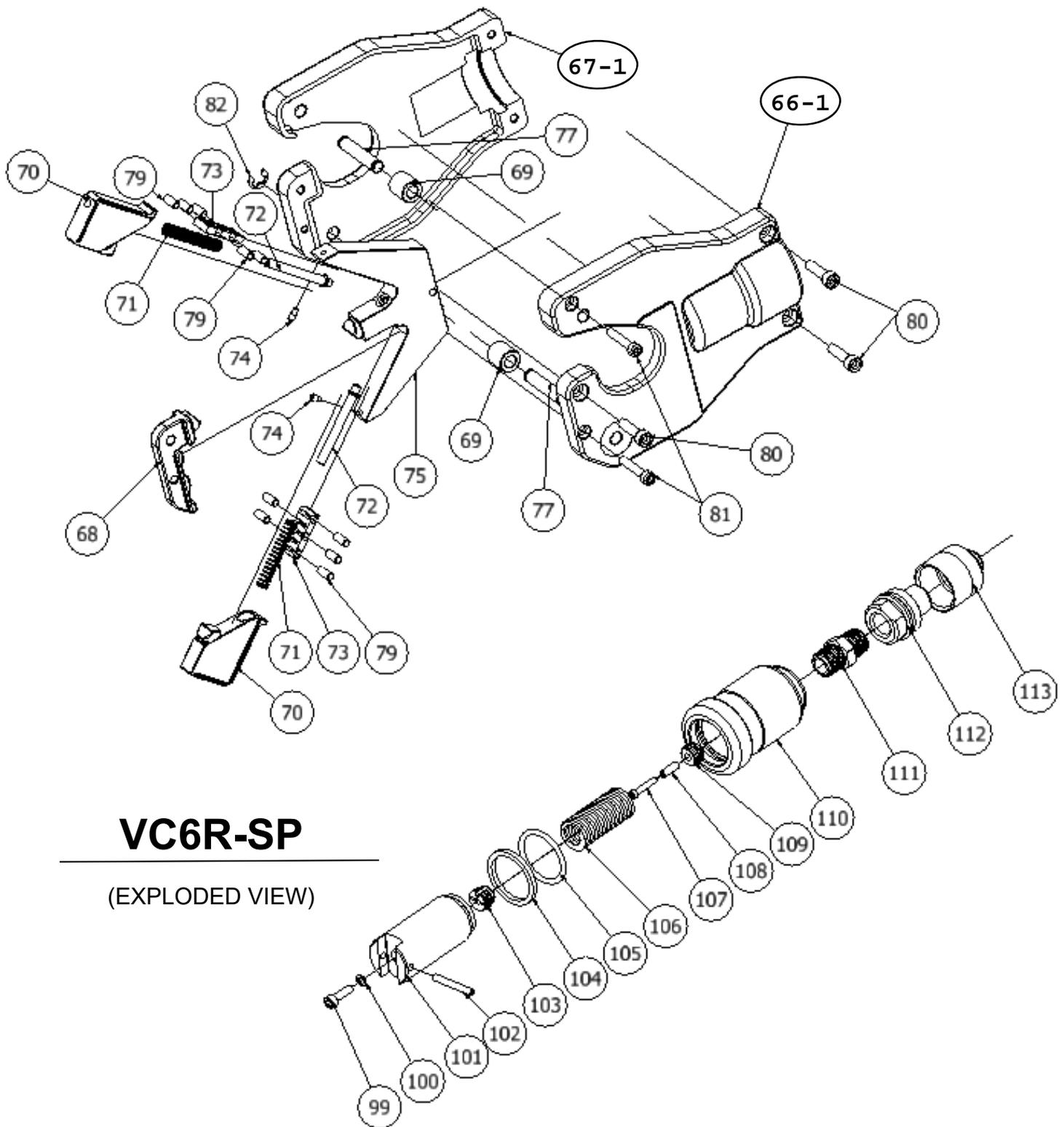
VC6FTR-SP, VC6R-SP,
VC7FTR-SP, & VC7R-SP

REPAIR KITS TABLE				
KIT NUMBER	KIT DESCRIPTION	Image Part Number	Description	Quantity in Assembly
VSPCSK	Cylinder Seal Kit	100	O Ring P6	1
		104	Nylon Backup Ring P35	1
		105	O Ring P35	1
VSPSNK	Right or Left Nib Kit	70	Side Jaw	1
		71	Side Jaw Spring	1
VSP7SNK	Right or Left Nib Kit	70-1	Side Jaw	1
		71	Side Jaw Spring	1
VSPBAK	Bearing Assembly Kit	73	Bearing Retainers	1
		79	Roller Bearing D5-L12	5
YSPYK	Yoke Kit (VC6R)	72	Spring Pin	2
		74	Bearing Stop	2
		75	Cam Yoke	1
YSP7YK	Yoke Kit (VC7R)	72	Spring Pin	2
		74	Bearing Stop	2
		75-1	Cam Yoke	1
VSPFUNK	Upper Nib for VC6FTR-SP	68-1	Fixed Nib	1
		97	Pin D3-L14	1
VSP3UNK	Upper Nib for VC6RSP	68	Fixed Nib	1
VSP7FUNK	Upper Nib for VC7FTRSP	68-3	Fixed Nib	1
		97	Pin D3-L14	1
VSP7UNK	Upper Nib for VC7RSP	68-2	Fixed Nib	1
VSPFHCK	VC6FTRSP & VC7FTRSP Head Cover Kit	66-1	Cover Half A	1
		67-1	Cover Half B	1
		69	Pivot Roller Bearing	2
		77	Pivot Pin	1
		80	Socket Head Screw M6-L28	2
		81	Socket Head Screw M4-L28	2
		82	E Type Snap Ring D8	2
		95	Latch	1
		96	Latch Pin	1
		98	Headless Inner Hex Screw M3-L8	1
VSP3HCK	VC6RSP & VC7RSP Head Cover Kit	66	Cover Half A	1
		67	Cover Half B	1
		69	Pivot Roller Bearing	2
		77	Pivot Pin	2
		80	Socket Head Screw M6-L28	3
		81	Socket Head Screw M4-L28	2
		82	E Type Snap Ring D8	4



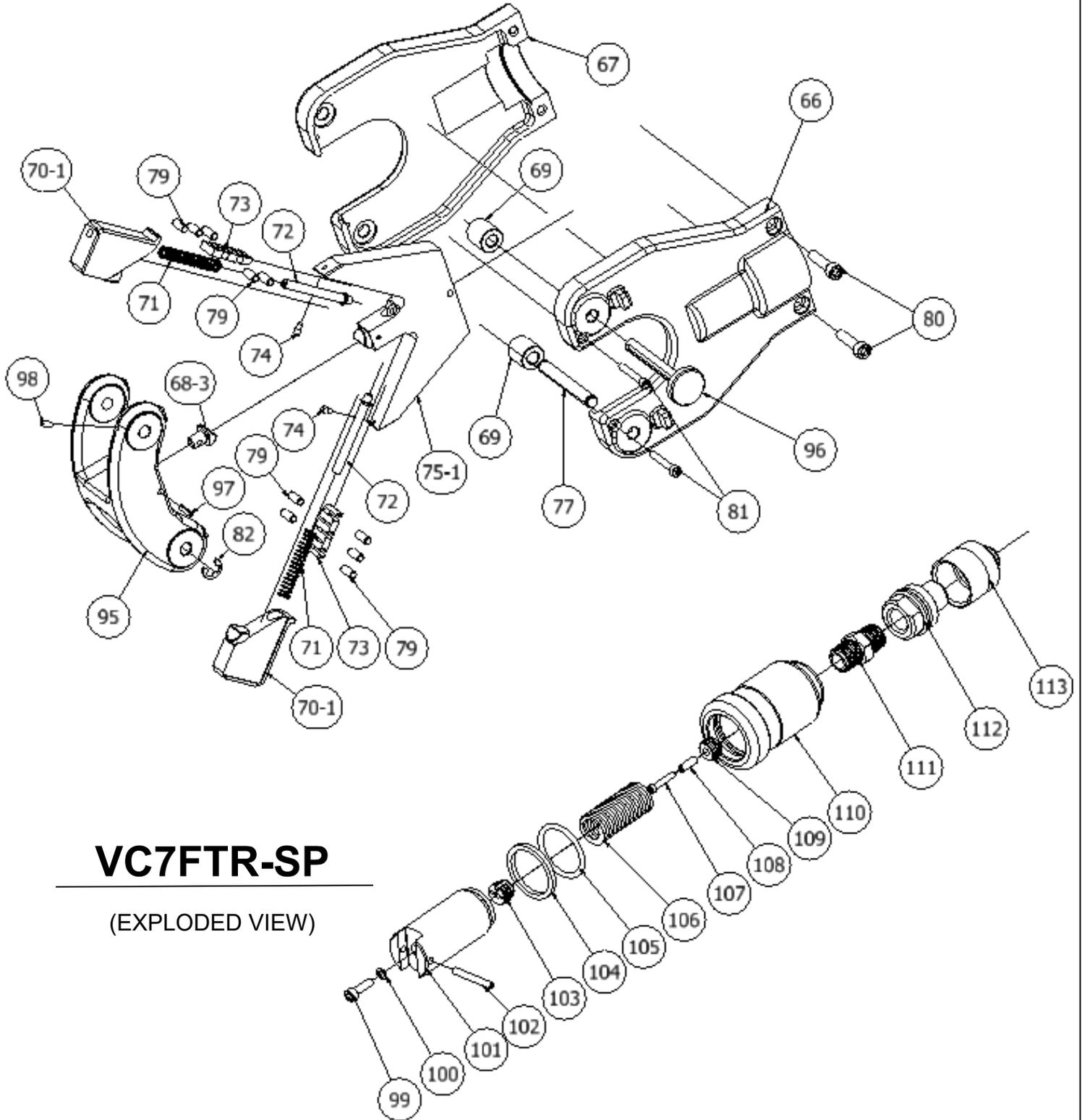
VC6FTR-SP

(EXPLODED VIEW)



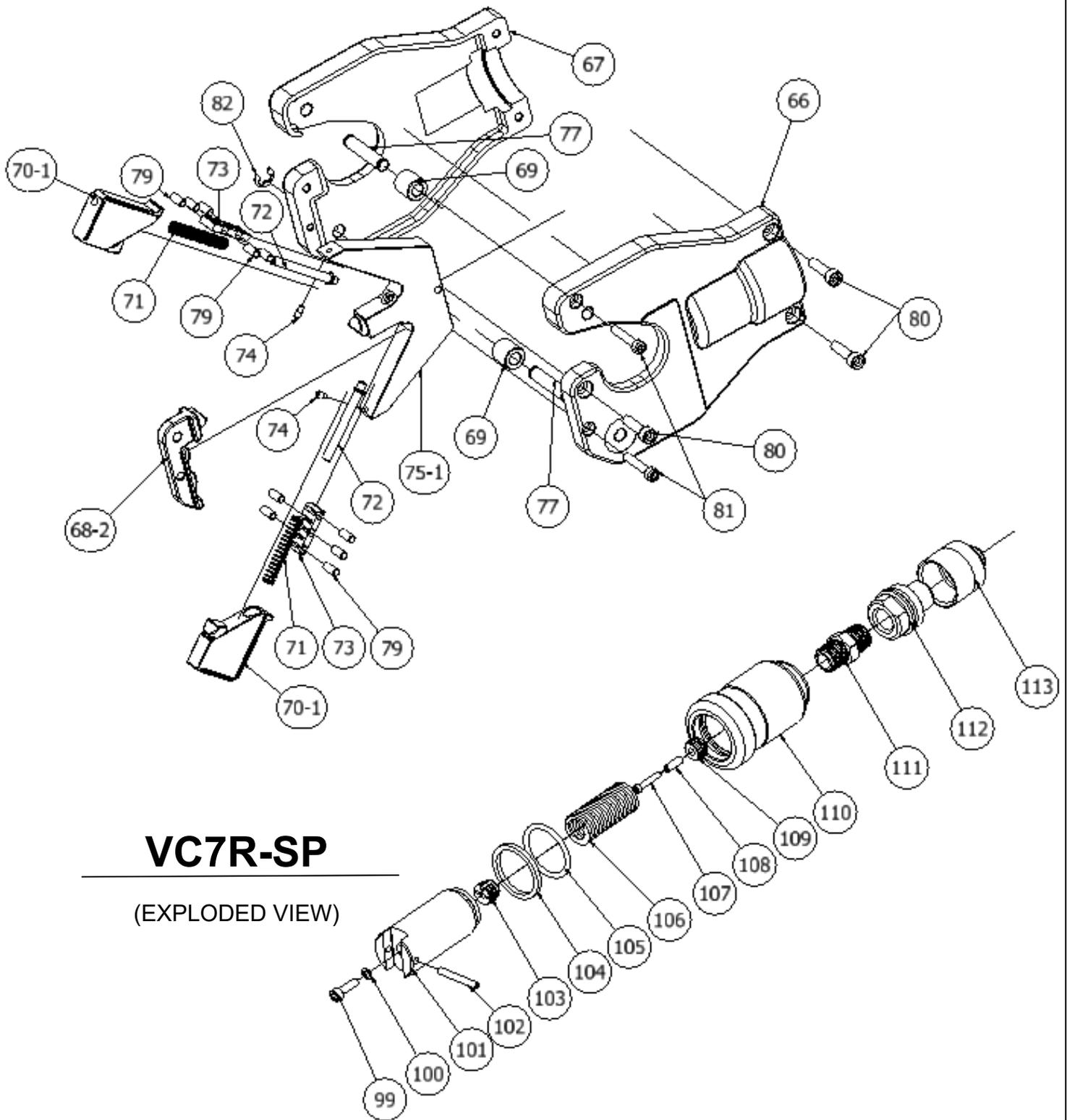
VC6R-SP

(EXPLODED VIEW)



VC7FTR-SP

(EXPLODED VIEW)



VC7R-SP

(EXPLODED VIEW)



ANDERSON® Products

VC6FTR-SP, VC6R-SP,
VC7FTR-SP, & VC7R-SP

VC6FTR-SP TOOL		
Image Part Number	Description	Quantity in Assembly
50	Snap Ring D8	2
51	Snap Ring D8	1
52	Soft Copper Washer	1
53	Flat Head Screw	1
54	Work Piston	1
55	Retraction Spring	1
56	Spring Retainer	2
57	O Ring P6	1
58	Nylon Backup Ring P6	1
59	Flat head Inner Hex Screw M6	1
60	Relief Valve Seat	1
61	Relief Valve Body	1
62	Seal Pin	1
63	Relief Valve Spring	1
64	O-Ring S9	1
65	Relief Valve Adjusting Screw M8-L8	1
66-1	Cover Half A	1
67-1	Cover Half B	1
68-1	Fixed Nib	1
69	Pivot Roller Bearing	2
70	Side Jaw	2
71	Side Jaw Spring	2
72	Spring Pin	2
73	Bearing Retainers	2
74	Bearing Stop	2
75	Cam Yoke	1
77	Pivot Pin	1
79	Roller Bearing D5-L12	10
80	Socket Head Screw M6-L28	2
81	Socket Head Screw M4-L28	2
82	E Type Snap Ring D8	2
95	Latch	1
96	Latch Pin	1
97	Pin D3-L14	1
98	Headless Inner Hex Screw M3-L8	1
99	Flat Head Screw	1
100	O Ring P6	1
101	Work Piston	1
102	Roll Pin	1
103	Top Spring Retainer	1
104	Nylon Backup Ring P35	1
105	O-Ring P35	1
106	Retraction Spring	1
107	Flat head Inner Hex Screw M6	1
108	Retraction Spring Bushing	1
109	Bottom Spring Retainer	1
110	Cylinder	1
111	Male Fitting	1
112	Coupler	1
113	Dust Cap	1

VC6R-SP TOOL		
Image Part Number	Description	Quantity in Assembly
50	Snap Ring D8	2
51	Snap Ring D8	1
52	Soft Copper Washer	1
53	Flat Head Screw	1
54	Work Piston	1
55	Retraction Spring	1
56	Spring Retainer	2
57	O Ring P6	1
58	Nylon Backup Ring P6	1
59	Flat head Inner Hex Screw M6	1
60	Relief Valve Seat	1
61	Relief Valve Body	1
62	Seal Pin	1
63	Relief Valve Spring	1
64	O-Ring S9	1
65	Relief Valve Adjusting Screw M8-L8	1
66	Cover Half A	1
67	Cover Half B	1
68	Fixed Nib	1
69	Pivot Roller Bearing	2
70	Side Jaw	2
71	Side Jaw Spring	2
72	Spring Pin	2
73	Bearing Retainers	2
74	Bearing Stop	2
75	Cam Yoke	1
77	Pivot Pin	1
79	Roller Bearing D5-L12	10
80	Socket Head Screw M6-L28	3
81	Socket Head Screw M4-L28	2
82	E Type Snap Ring D8	4
99	Flat Head Screw	1
100	O Ring P6	1
101	Work Piston	1
102	Roll Pin	1
103	Top Spring Retainer	1
104	Nylon Backup Ring P35	1
105	O-Ring P35	1
106	Retraction Spring	1
107	Flat head Inner Hex Screw M6	1
108	Retraction Spring Bushing	1
109	Bottom Spring Retainer	1
110	Cylinder	1
111	Male Fitting	1
112	Coupler	1
113	Dust Cap	1



ANDERSON® Products

VC6FTR-SP, VC6R-SP,
VC7FTR-SP, & VC7R-SP

VC7FTR-SP TOOL		
Image Part Number	Description	Quantity in Assembly
50	Snap Ring D8	2
51	Snap Ring D8	1
52	Soft Copper Washer	1
53	Flat Head Screw	1
54	Work Piston	1
55	Retraction Spring	1
56	Spring Retainer	2
57	O Ring P6	1
58	Nylon Backup Ring P6	1
59	Flat head Inner Hex Screw M6	1
60	Relief Valve Seat	1
61	Relief Valve Body	1
62	Seal Pin	1
63	Relief Valve Spring	1
64	O-Ring S9	1
65	Relief Valve Adjusting Screw M8-L8	1
66-1	Cover Half A	1
67-1	Cover Half B	1
68-3	Fixed Nib	1
69	Pivot Roller Bearing	2
70-1	Side Jaw	2
71	Side Jaw Spring	2
72	Spring Pin	2
73	Bearing Retainers	2
74	Bearing Stop	2
75-1	Cam Yoke	1
76	Cam Yoke Adaptor	1
77	Pivot Pin	1
78	Roll Pin	1
79	Roller Bearing D5-L12	10
80	Socket Head Screw M6-L28	2
81	Socket Head Screw M4-L28	2
82	E Type Snap Ring D8	2
95	Latch	1
96	Latch Pin	1
97	Pin D3-L14	1
98	Headless Inner Hex Screw M3-L8	1
99	Flat Head Screw	1
100	O Ring P6	1
101	Work Piston	1
102	Roll Pin	1
103	Top Spring Retainer	1
104	Nylon Backup Ring P35	1
105	O-Ring P35	1
106	Retraction Spring	1
107	Flat head Inner Hex Screw M6	1
108	Retraction Spring Bushing	1
109	Bottom Spring Retainer	1
110	Cylinder	1
111	Male Fitting	1
112	Coupler	1
113	Dust Cap	1

VC7R-SP TOOL		
Image Part Number	Description	Quantity in Assembly
50	Snap Ring D8	2
51	Snap Ring D8	1
52	Soft Copper Washer	1
53	Flat Head Screw	1
54	Work Piston	1
55	Retraction Spring	1
56	Spring Retainer	2
57	O Ring P6	1
58	Nylon Backup Ring P6	1
59	Flat head Inner Hex Screw M6	1
60	Relief Valve Seat	1
61	Relief Valve Body	1
62	Seal Pin	1
63	Relief Valve Spring	1
64	O-Ring S9	1
65	Relief Valve Adjusting Screw M8-L8	1
66	Cover Half A	1
67	Cover Half B	1
68-2	Fixed Nib	1
69	Pivot Roller Bearing	2
70-1	Side Jaw	2
71	Side Jaw Spring	2
72	Spring Pin	2
73	Bearing Retainers	2
74	Bearing Stop	2
75-1	Cam Yoke	1
76	Cam Yoke Adaptor	1
77	Pivot Pin	1
78	Roll Pin	1
79	Roller Bearing D5-L12	10
80	Socket Head Screw M6-L28	3
81	Socket Head Screw M4-L28	2
82	E Type Snap Ring D8	4
99	Flat Head Screw	1
100	O Ring P6	1
101	Work Piston	1
102	Roll Pin	1
103	Top Spring Retainer	1
104	Nylon Backup Ring P35	1
105	O-Ring P35	1
106	Retraction Spring	1
107	Flat head Inner Hex Screw M6	1
108	Retraction Spring Bushing	1
109	Bottom Spring Retainer	1
110	Cylinder	1
111	Male Fitting	1
112	Coupler	1
113	Dust Cap	1



ANDERSON® Products

VC6FTR-SP, VC6R-SP,
VC7FTR-SP, & VC7R-SP



HUBBELL
POWER SYSTEMS **ANDERSON**
VERSA-CRIMP® TOOLS

The logo features the Hubbell globe icon on a yellow rectangular background. To the right of this icon, the word "ANDERSON" is written in a large, bold, black sans-serif font. Below "ANDERSON", the words "POWER SYSTEMS" are written in a smaller, bold, black sans-serif font. To the right of "POWER SYSTEMS", the words "VERSA-CRIMP® TOOLS" are written in a large, bold, black sans-serif font.

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