

Vekttek, Inc. 1334 East Sixth Ave. P.O. Box 625 Emporia, Ks. 66801 U.S.A.	Instruction Sheet	ISMV	1009		
		REV:	A, I.A.W. ECN2603		
		REV. BY/DATE:	DLG	3/10/14	
		APPR/DATE:	G. YOTZ	4-3-14	
TITLE: Disassembly/Assembly Instructions: 7.3 kN Fluid Advance Work Supports					

Read all instructions before disassembly

Refer to the illustration on page three for component part numbers and a tool list.

Disassembly

Notice: When disassembling multiple work supports, the plunger and body/sleeve assembly from each work support should be kept together.

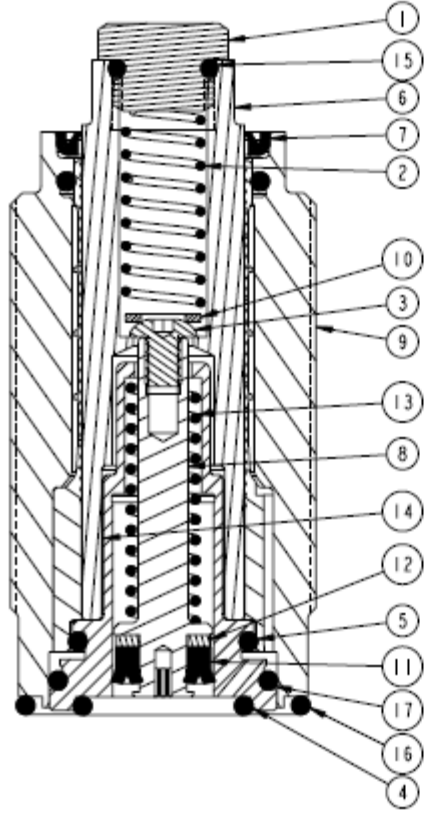
1. Hold the plunger (6) stationary and unscrew the contact bolt (1).
2. Remove the spring (2) and spacer (10) from inside the plunger.
3. Hold the piston (8) stationary and unscrew the cap screw (3).
4. Slide the plunger (6) out of the top of the body/sleeve assembly (9) and then push the piston (8) and spring (13) out of the retainer (14).
5. Unscrew the body/sleeve assembly (9) from the base or fixture.
Caution- Use a six-point socket only. Other types of wrenches may damage the work support.
6. Remove the wiper (7) from the body/sleeve assembly (9). **Do not scratch the inner sleeve.**
7. Hold the body/sleeve assembly (9) stationary and pull the retainer (14) from the body/sleeve assembly (9).
8. Remove the piston seal (11) and piston seal back-up ring (12) from the piston (8), the O-rings (5 and 17) from the retainer (14) and the O-rings (4 and 16) from the base or fixture.
9. Clean all parts thoroughly and set aside to dry.

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Assembly

1. Lubricate all O-rings, gaskets, back-up rings and seals with clean hydraulic fluid (Vekttek 65-0010-01 or equivalent). Apply Loctite primer N® or equivalent to the threads of the contact bolt (1) and set aside to dry.
2. Press the wiper (7) into the body/sleeve assembly (9) using only enough force to seat the wiper in the counterbore. **Caution:** Excess force may cause the inner sleeve to collapse.
3. First install the back-up ring (12) then the piston seal (11) onto the piston (8) with the sealing lips of the piston seal (11) toward the piston (8) base.
4. Install the O-rings (5 and 17) onto the retainer (14).
5. Hold the body/sleeve assembly (9) stationary and press the retainer (14) into the body/sleeve assembly (9).
6. Slide the spring (13) onto the piston (8) and insert both parts into the retainer (14).
7. Insert the plunger (6) into the top of the body/sleeve assembly (9).
8. While holding the piston (8) stationary insert the cap screw (3) into the top of the plunger (6) and thread the cap screw (3) into the piston (8). Tighten to the specification on the parts list.
9. Insert the flat washer (10) and the spring (2) into the top of the plunger (6).
10. Apply one drop of Loctite 243® or equivalent to the threads of the contact bolt (1). While holding the plunger (6) stationary tighten the contact bolt (1) to the plunger (6). Tighten to the torque specification on the parts list.
11. Install the O-rings (4 and 16) . Insert the work support assembly into the mounting cavity and tighten it to the torque specification on the parts list.
Caution- Use a six-point socket only. Other types of wrenches may damage the work support.

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17	O-RING
16	O-RING
15	O-RING
14	RETAINER
13	SPRING
12	BACK-UP RING
11	SEAL
10	SPACER
9	BODY/SLEEVE ASSY
8	PISTON
7	WIPER
6	PLUNGER
5	O-RING
4	O-RING
3	CAP SCREW
2	SPRING
1	CONTACT BOLT
Item	Description

Model Number	Tool list
41-0171-12	14 mm open end, 13 & 24 mm socket (six point), 1/16 & 5/64 hex keys