



**WESTERN PRODUCTS**  
 P.O. BOX 245038  
 MILWAUKEE, WISCONSIN 53224-9538

Part No. 49049 STD.  
 or  
 Part No. 49050 H.D.  
 3-way VALVE  
 ADJUSTMENT PROCEDURE &  
 PARTS LIST

Inspect and clean all components including filter before reassembly. It is recommended that all seals, o-rings and gaskets be replaced, along with any parts showing excessive wear, to assure trouble free service. Use the following Parts Diagram for reference, Form No's 2997 and 2998 (1-1/2" ram) or 2664 and 2665 (2" ram) if unit is equipped with T-Stick™. Use Form No's 3040 and 3041 (1-1/2" ram) or 3065 and 3066 (2" ram) if unit is equipped with IIIa Control.

Completely assemble the entire unit (except 3-way valve lever) and fill with oil.

**3-Way Valve — Adjustment Guide**

1. Turn camshaft clockwise until it stops. If it can be rotated 360 degrees, turn lift valve, item No. 27 or No. 28, in 1/2 turn and try camshaft again. Repeat above until camshaft can no longer be turned clockwise. **NOTE:** Lift valve should be recessed with approximately 1 to 3 threads in the housing visible.
2. Attach lever to camshaft with cable pin to the right. If flats on shaft do not align to lever — turn shaft CCW until they do align.
3. Rotate lever (CW) until it hits housing. Back off housing 1/16". Turn lift valve "IN" until it hits shuttle. If lever can not be turned to hit housing, back out (turn lift valve CCW) 1/2 turn and repeat step 3.
4. Place cable onto lever and raise plow.
  - A. If plow raises properly with Control in "Raise" position insert locking plug No. 30 or No. 52 and tighten set screw.
  - B. If plow does not raise, turn lift valve (CW), while someone holds control in "UP" position until plow raises properly. Adjust as necessary for normal operation, insert locking plug and tighten set screw.
  - C. If the lift valve is adjusted in too far, the plow may also raise while it is being angled. To correct this, turn lift valve CCW until plow angles without raising at the same time.
  - D. If plow will not lower, turn check valve assembly "IN" 1/4 turn and try again. Tighten 5/8" jam nut to 12 in-lb.
  - E. If the plow will not stay up in neutral — turn check valve assembly "OUT" 1/8 turn and try again. Repeat until plow stays up in neutral. Tighten 5/8" jam nut to 12 in-lb.

**NOTE:** If 3-way valve cannot be adjusted per above, repeat steps 2 thru 4 — starting with lift valve recessed to expose 1 thread in the housing, then 2 and so on, until adjustment is correct.

Part No.	Quan.	Description	Part No.	Quan.	Description
55136	1	1-1/2" Ram Packing Set Or	25718	1	Rubber Quad Ring (Use With 4-1/2" Dia. Motor)
55209	1	2" Ram Packing Set	25861	2	Seal Plate Gasket (Use 1 With 3" Dia. Motor)
55137	1	1-1/2" Ram Wiper Ring Or	55252	2	4W Valve O-Ring No. 015
55210	1	2" Ram Wiper Ring	55374	1	Manifold Gasket
55587	1	Check Valve O-Ring No. 112	55357	1	4W Cover Plate Gasket
25730	1	Check Valve O-Ring No. 012	55951	1	Shim Spacer .0005" (Silver)
55587	1	Hub Nut O-Ring No. 112	55735	1	Shim Spacer .00035" (Clear)
55371	1	Cam Shaft O-Ring No. 008	55371	1	4W Valve Shaft O-Ring No. 008
55350	1	3W Cover Plate Gasket	55189	1	Cover Plate O-Ring No. 025
25620	1	Pump O-Ring No. 115	49014	1	Oil Seal (Use With 3" Dia. Motor)
25730	2	Lift Valve O-Ring No. 012	55371	2	Cushion Valve Stem O-Ring No. 008
25618	1	Base Lug O-Ring No. 216	25731	2	Cushion Valve Stem O-Ring No. 010
25731	2	Cable End O-Ring No. 010	55591	1	Expansion Plug 1/4"



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O-Ring I.D. Chart  
For: Major Overhaul  
Seal Kit  
Part No. 49049 Std.  
or  
Part No. 49050 H.D.



55371  
No. 008



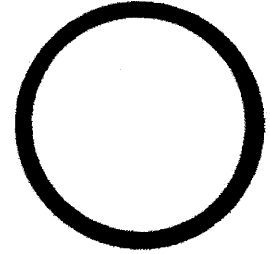
25731  
No. 010



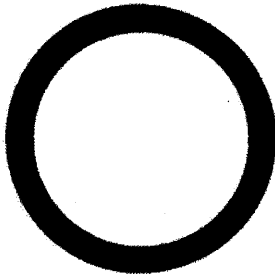
25730  
No. 012



55252  
No. 015



55189  
No. 025



25618  
No. 216



25620  
No. 115



55587  
No. 112

SIZE	PART NO.	QTY.	LOCATION
No. 008	55371	1	Cam Shaft (3 Way)
No. 112	55587	1	Hub Nut (3 Way)
No. 012	25730	1	Check Valve Ass'y. (3 Way)
No. 112	55587	1	Check Valve Ass'y. (3 Way)
No. 012	25730	2	Lift Valve Ass'y. (3 Way)
No. 115	25620	1	Pump Ass'y.
No. 216	25618	1	Base Lug
No. 015	55252	2	Valve to Housing (4 Way)
No. 008	55371	1	Valve Shaft (4 Way)
No. 008	55371	2	Cushion Valve Stem (4 Way)
No. 010	25731	2	Cushion Valve Stem (4 Way)
No. 010	25731	2	Cable End ( 3 & 4 Way)
No. 025	55189	1	Front Cover Plate (w/o 4 Way)