

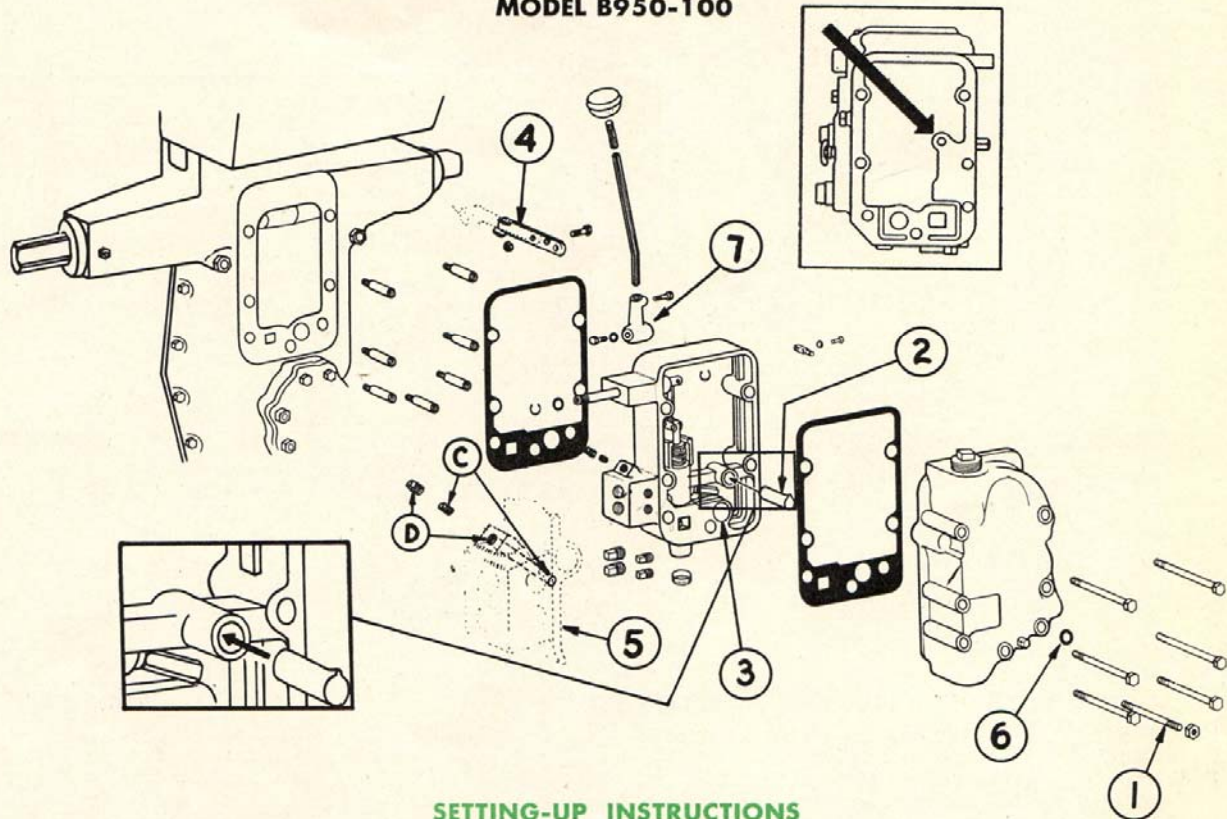
GENERAL SETTING-UP INSTRUCTIONS

PARTS LIST AND OIL FLOW DATA

FOR THE

BAKER MULTI-VALVE

(FOR JOHN DEERE A, B, AND G TRACTORS)
MODEL B950-100



SETTING-UP INSTRUCTIONS

1. Remove John Deere Valve Case from Power Lift as shown.
2. Clean the Gasket surfaces thoroughly. Remove JD Pilot Stud (Point 1) and screw seven (7) stud extensions (B50-137) in to Power Lift.
3. Replace JD Pilot Stud into its respective extension and place Gasket B50-135 ($\frac{5}{8}$ " Holes) over Pilot and Stud Extensions.
4. Place the Baker Multi-Valve over Stud Extensions.
5. Remove tape holding Limit Extension as shown at Point 2. Do not remove Limit Extension.
NOTE: If Limit Extension has been removed, replace with swelled end towards back of tractor, see inset of Point 2, in above illustration. This is very important. If improperly installed, Limit Extension will drop out into Power Lift in operation, resulting in damage to Multi-Valve.
6. Place Gasket B50-136 ($\frac{1}{2}$ " Holes) over JD Pilot Stud.
7. Be sure John Deere Throttle Valve is still in place in Valve Case.
8. Be sure Spring is over Boss on end of Valve.
9. Replace Valve Case over JD Pilot Stud. **NOTE:** Be certain that the Throttle Valve Spring is in place over Boss in Oil Passage (Point 3).
10. Place $\frac{1}{2}$ " gasket (B50-139), (Point 6) furnished, over Lower Right Cap Screw. Now tighten all Studs and Nuts evenly.

CAUTION: If studs are tightened over 600 inch lbs. it may cause a "sticky" valve action.

11. Install Lever Stub Arm and Lever as shown (Point 7).

SPECIAL INSTRUCTIONS FOR POWR-TROL INSTALLATION. Use the same procedure as outlined above, EXCEPT, before replacing Powr-Trol Case, tighten securely the $\frac{1}{2}$ " Pipe Plug, which is in the Powr-Trol Case at point indicated by heavy arrow on inset drawing above and cut or chisel off head of pipe plug.

HEAD OF PLUG MUST BE CUT OFF FLUSH WITH CASE TO AVOID INTERFERENCE WITH VALVE OPERATION.

SPECIAL INSTRUCTIONS FOR JD TRACTOR WITH BOX SEAT, EQUIPPED WITH A BAKER CONTROL. When using a BAKER MULTI-VALVE, install the Extension on Connecting Link Lever, as illustrated (Point 4). Extension is not used except as indicated above, or when more than one MULTI-VALVE is installed on the JD Lift.

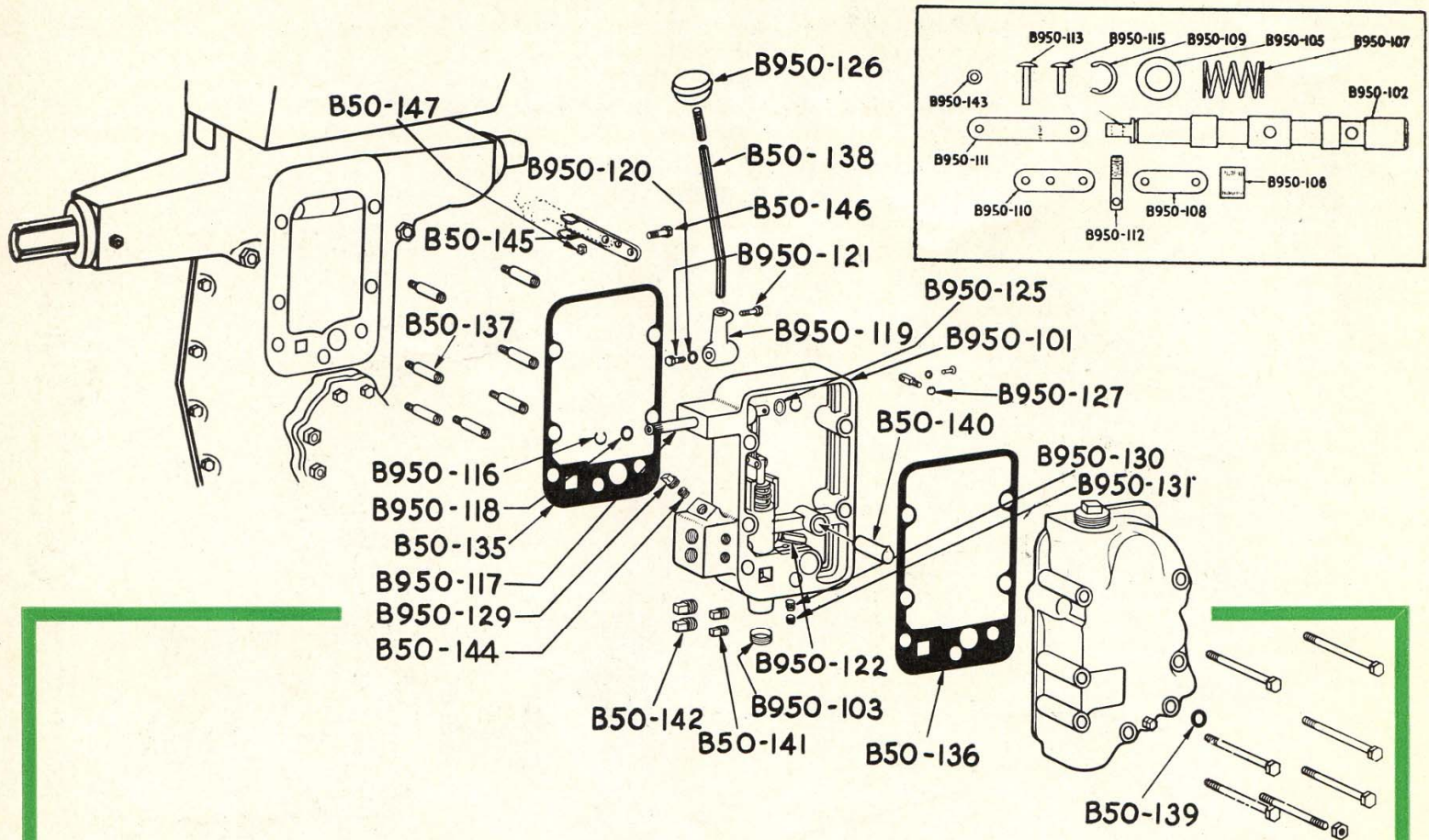
OPERATING SUGGESTIONS

Either $\frac{3}{8}$ " or $\frac{1}{2}$ " Cylinder Hoses can be used with the Baker Multi-Valve. These outlets are located on the lower left hand side of the valve.

FOR COLD WEATHER OPERATION: Caution—DO NOT FORCE VALVE LEVER! Run power take-off until oil warms valve. Use winter grade oil in below-freezing temperatures.

FOR ONE WAY CYLINDER OPERATION, remove $\frac{1}{2}$ " Pipe Plug "D" and $\frac{3}{8}$ " Allen Pipe Plug "C" from the interior. Replace Plug "D". See above illustration (Point 5). Use bottom outlet for cylinder hose. When using two or more Baker Multi-Valves with One Way Cylinder, use Rear Multi-Valve for One Way Action.

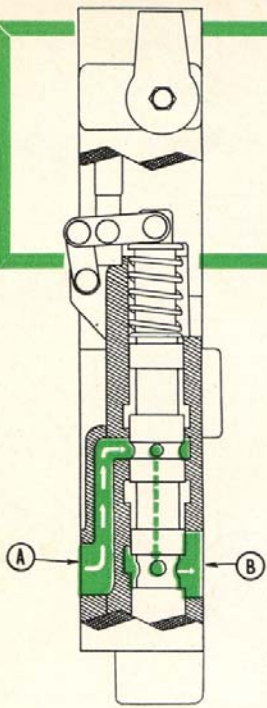
PARTS LIST



PART NO.	PART NAME AND DESCRIPTION	REQ. UNIT
B950-101	Valve Body	1
B950-102	Valve Spool	1
B950-103	Screw Plug (1"-NF)	1
B950-105	Washer (Valve Top) 3/4" I.D.	2
B950-106	Spacer (Valve)	1
B950-107	Spring (Valve)	1
B950-108	Link	2
B950-109	Snap Ring (Valve)	1
B950-110	Link	2
B950-111	Link	2
B950-112	Actuating Arm	1
B950-113	Rivet (3/16" x 7/8")	4
B950-115	Rivet (3/16" x 5/8") Drilled	1
B950-116	Snap Ring (5/8")	2
B950-117	Actuating Shaft	1
B950-118	"O" Ring	1
B950-119	Stub Arm	1
B950-120	1/4" Shakerproof Washer	1
B950-121	1/4" Cap Screw x 5/8"	2
B950-122	Pressure Relief Valve (Complete)	1
B950-125	Washer (5/8" x 1 1/8")	1
B950-126	Knob	1
B950-127	Snap Ring (5/16")	1
B950-128	Cotter Pin (1/16" x 3/8")	1
B950-129	1/4" Pipe Plug, Sq. Hd.	1
B950-130	Sealer Blank	1
B950-131	9/16" Screw Plug	2
B950-133	Spacer Washer	3
B50-135	Gasket 5/8" Hole Tractor Housing	1
B50-136	Gasket 1/2" Hole B50 to go on lift Valve Case	1
B50-137	Stud Extension	7
B50-138	Lever	1
B50-139	1/2" Copper Gasket	1
B50-140	Limit Extension	1
B50-141	3/8" Pipe Plug	2
B50-142	1/2" Pipe Plug	2
B50-144	1/8" Allen Plug (Hex. Sec.)	1
B50-145	Box Seat Lever Extension	1
B50-146	3/8" x 1" Hex Head Machine Bolt	1
B50-147	Nut	1

CUTAWAYS SHOWING OIL FLOW IN BAKER MULTI-VALVE

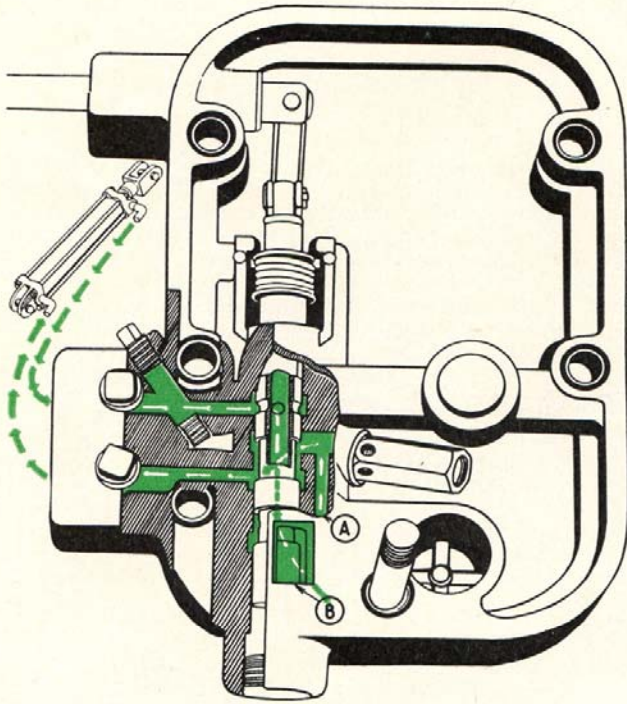
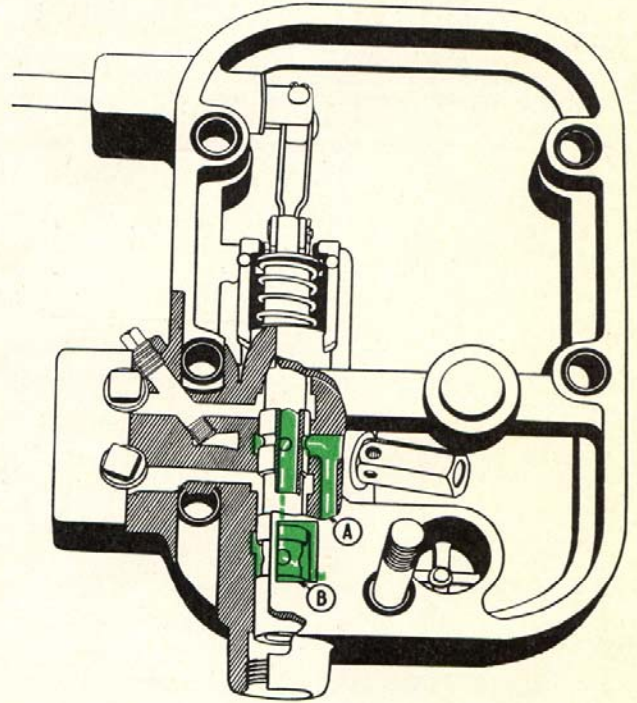
FOUR WAY VALVE FOR DOUBLE ACTING CYLINDERS



Left hand cutaway illustration is a side view of Multi-Valve in neutral position. Arrows indicate flow of oil from the John Deere Pump entering Port "A" of Multi-Valve, flowing through Port "A" to valve spool, down through spool out into John Deere Power Lift Valve Case through Port "B". Installation of the Multi-Valve does not change the operation of Power Lift or Rock Shaft, as oil travels through the Multi-Valve into the power lift valve.

← NEUTRAL POSITION →

Right hand cutaway illustration is a rear view of Multi-Valve in neutral position. Arrows indicate flow of oil through Port "A", down through hollow sleeve valve and on out Port "B" into John Deere Valve Case.

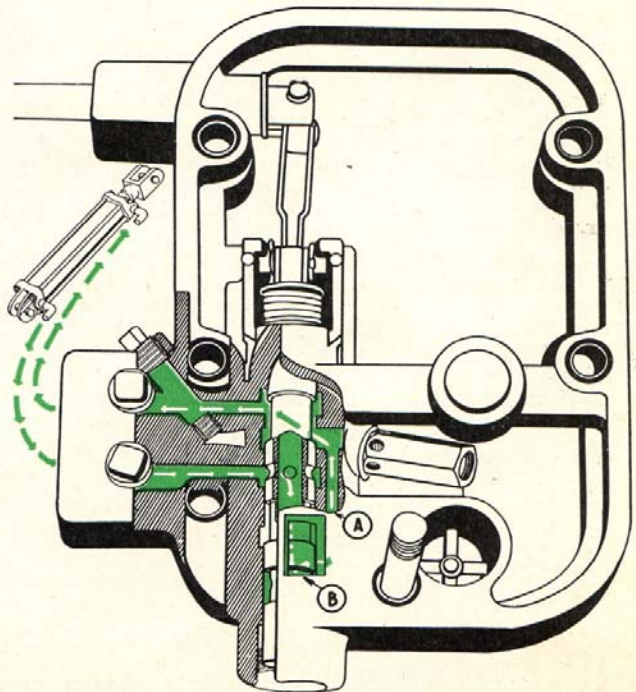


LOWERING POSITION →

Right hand cutaway illustration is a rear view of the Multi-Valve in lowering position. As indicated by arrows, oil flows from John Deere Pump through Port "A", out through Upper Hose Port into cylinder. As cylinder retracts, oil is forced out of bottom of cylinder, back through the Lower Hose Port, through center of sleeve valve and on out through Port "B" into John Deere Valve Case.

← RAISING POSITION

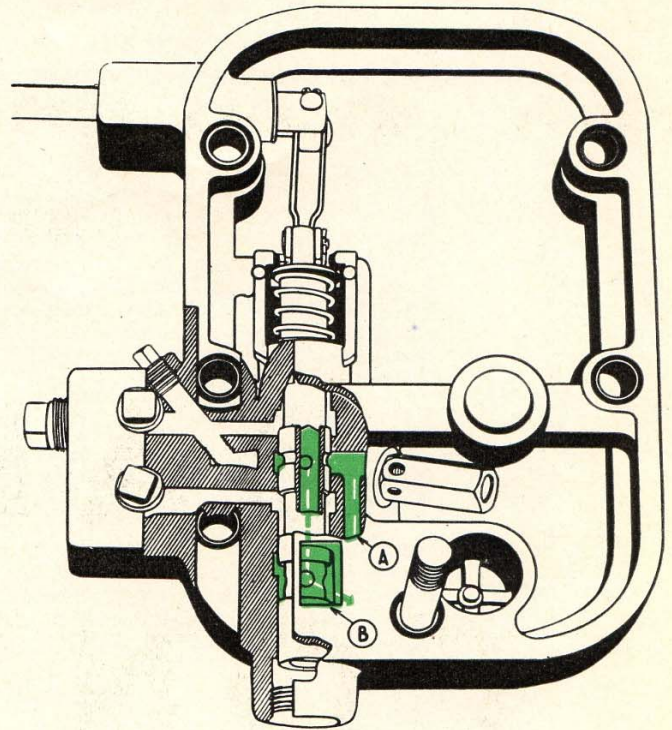
Left hand cutaway illustration is a rear view of the Multi-Valve in raising position. As indicated by arrows, oil flows from John Deere Pump through Port "A", out through Lower Hose Port into cylinder. As cylinder extends, oil is forced out top of cylinder, back through the Upper Hose Port, through center of sleeve valve and on out through Port "B" into John Deere Valve Case.



THREE WAY VALVE FOR SINGLE ACTING CYLINDERS

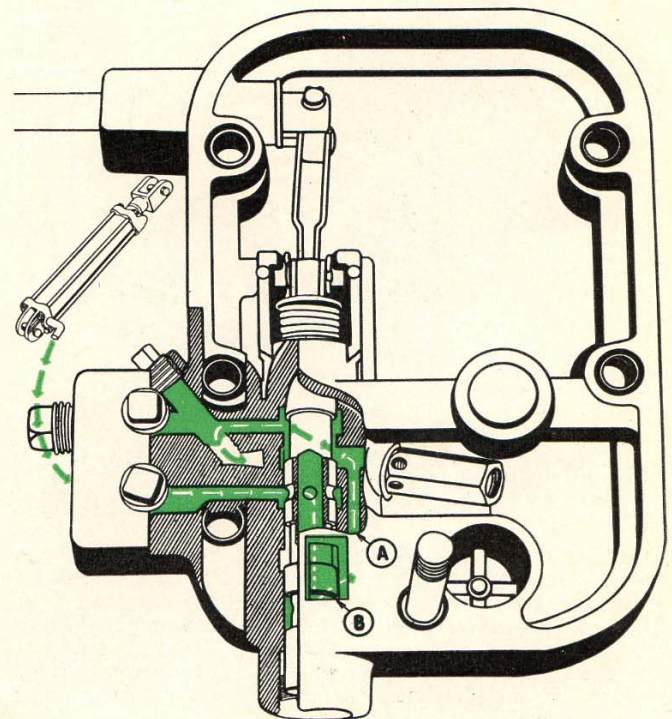
NEUTRAL POSITION

Right hand cutaway illustration is a rear view of the Multi-Valve in neutral position, with plug "C" removed for 3-way operation. (Single acting cylinder, loaders, etc. See OPERATING SUGGESTIONS). Arrows indicate flow of oil through Port "A" down through hollow sleeve valve and on out Port "B" into John Deere Valve Case.



RAISING POSITION

Left hand cutaway illustration is a rear view of Multi-Valve in raising position, with plug "C" removed for 3-way operation. As indicated by arrows, oil flows from John Deere Pump through Port "A", out through Lower Hose Port into cylinder, forcing cylinder to extend.



LOWERING POSITION

Right hand cutaway illustration is a rear view of the Multi-Valve in lowering position. As indicated by arrows, oil flows from John Deere pump through Port "A", returning to the oil sump through port which was opened by removing plug "C". See illustration 1.

IF PLUG "C" WERE NOT REMOVED, OIL BEING PUMPED WOULD GO OUT THROUGH PRESSURE RELIEF VALVE AND CAUSE EXCESSIVE HEAT AND PREMATURE DAMAGE TO PRESSURE RELIEF VALVE.

Oil released from the cylinder travels back through Lower Hose Port, through sleeve valve, through Port "B", on into valve case.

