



CORRUGATE OPENER

PICKETT EQUIPMENT

**Never Stop
Corrugate Opener**

PARTS & OWNER'S MANUAL



Pickett Equipment

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NEVER STOP CORRUGATE OPENER

PRE.-DELIVERY SET UP

The Never Stop has been fully assembled and tested prior to delivery. Upon receipt of this machine it is necessary to check and tighten all fasteners, set screws, etc. Take safety precautions while unloading.

All equipment is stamped with serial and model numbers for identification. The owner's manual provides a machine check list which the dealer and customer should sign and return to Pickett Equipment. A completed machine check list is the acceptance that the equipment has been correctly assembled and is in good working condition. It is also required to validate warranty on the machine.

UNLOADING PROCEDURE

It is necessary to use a hyster or crane capable of safely lifting and maneuvering 3,000 lbs. Secure chains in a tripod configuration to safely lift the machine level off the trailer. Place machine on a level surface area for safe hook-up to your tractor.

Place blade portion of the machine on the ground with front support stand in the lowered position. *Do not store or unhook machine in the raised position, doing so may cause injury should the machine trip and fall unexpectedly.*

TRACTOR REQUIREMENTS

1. Draw bar should be removed and stored in a safe place.
 2. Check hydraulic oil level, making sure it is full. Make sure filter is new or has been changed regularly. Tractor needs to be free of any hydraulic oil leaks.
 3. Check that hydraulic remotes and controls work smoothly and properly. Clear hydraulic remotes of any foreign objects that will inhibit the performance of the hydraulic control valves and hydraulic cylinders located on the machine.
 4. Check your lower 3 point hitch sway blocks, making sure they are positioned correctly to prevent the machine from swaying from side to side.
 5. *Important: To let the machine move freely up and down, float pins located on the lower 3-point hitch arms need to be removed and stored in a safe place. Measure to make sure the arms are the same length.*
 6. *Important: The Never Stop Corrugate Opener requires a 12-volt power source to operate. Failure to use the recommended power source or properly connecting, can result in damage to the machine or serious burns from wires overheating.*
 7. Make sure clutch and brake on tractor are in good operational condition.
 8. Maximum hydraulic requirement for the Never Stop is 5 to 8 gallons per minute. 1800 PSI maximum.
- Exceeding the maximum hydraulic requirement will damage the Never-Stop Corrugate Opener. Refer to your tractor's owner's manual for adjustment of your tractor's hydraulic system.

CONNECTING THE NEVER-STOP CORRUGATE OPENER TO YOUR TRACTOR

A. HYDRAULIC SYSTEM

The red capped hose is the pressure side. The green capped hose is the return. Connect the red (pressure) hose to the No. 1 port. The green or return hose should dump back to the tractor through a return port.

- The position of your tractor's hydraulic control lever will affect which side of remote will be used for pressure.
 1. Follow all safety precautions when backing up to the machine for hook-up.
- Safety Note: Always work on the machine with the blade on the ground and tractor turned off*
- 2. Machine can either be hooked up to category 2 or 3 lower 3-point hitch arms. Reverse pin direction to perform this function. Secure lower 3-point hitch arms inward and tightly secure against sway block to prevent side play in the machine. Secure 3-point pins with hitch pins provided.
- 3. Secure upper third link to machine. Adjust the upper third link so the machine will operate in a level position.
- 4. Connect hydraulic hoses to the desired remote.
- 5. The Never Stop Corrugate Opener is factory set to operate on open center tractor hydraulic systems. Refer to your tractor's owner's manual to determine the setting of your tractor's hydraulic system.
- On closed center hydraulic systems, it is necessary to switch the blue adjustment screw, located on the No. 5 solenoid with the red adjustment screw located on the bottom right of the valve body.

B. ELECTRICAL HOOK UP

1. *Important: Find the positive post or connection on your tractor's 12 volt power source. Securely connect the red alligator clamp. Securely connect the black alligator clamp to a ground source on the tractor.*

Important: Do not leave the corrugate opener connected to the tractor's 12-volt power source when machine is not in use.

C. OPERATING YOUR NEVER STOP CORRUGATE OPENER

Before starting your tractor, observe the following safety precautions:

- a. Machine is fully lowered to the ground and at a level position.
 - b. Area is free of tools and debris.
 - c. All individuals are clear of moving parts and a safe distance from the machine.
 - d. Hydraulics are securely fastened and connected properly.
 - e. Electrical connections are tight and grounded properly.
2. Start tractor and slowly engage hydraulics.
 - The machine should raise itself to the top or beginning position. Upper hydraulic cylinder should have retracted back to beginning position.
 3. Depress the green control button and observe. The machine should fall freely and return back to the upright starting position. You may want to test the machine several times.
 4. Working together, there are 3 operations used to maintain or change the machine cycle speed and size of corrugate needed.
 - A. hydraulic oil flow, approximately 5 to 8 gallons per minute - 1800 PSI max.
 - B. ground speed (*tractor in lowest gear*) RPM 500 max

- C. position of upper limit switch located on the main 2 x 8" hydraulic cylinder. Adjust hydraulic flow so the machine is raising at a smooth moderate speed.

The upper limit switch with single trip arm is mounted on the ram slide assembly and can be slid forward or back to limit the retract on 2 x 8" large ram. When the cylinder is retracting the ram trigger assembly (*mounted to the main shaft of the 2 x 8 hydraulic cylinder*) will come into contact with upper limit switch trip arm and stop the retract of the cylinder at a certain position every time. When the limit switch is moved forward towards the tractor this will allow the cylinder to retract more.

Now it will take more time the raise and cock the machine back into position making a deeper, wider corrugate. Move the limit switch back for a shallower narrow corrugate. NOTE: do not move the limit switch to far back to interrupt or limit the drop cycle of the operation. This could result in damage to the opener.

- Adjust the speed of the cycle to match your desired corrugate size.

IMPORTANT: Keep all electrical cords and hydraulic hoses between machine and tractor positioned securely as not to pinch or sever during operation. Keep hands and feet clear of machine while in operation. DO NOT attempt to adjust machine while hydraulics are on or machine is in the raised position.

STORAGE OF THE NEVER STOP

Store in a dry area under a machine shed in the down position. Do not cover with a tarp or plastic, this will cause condensation inside the limit switches and cause them to corrode. Keep hydraulic hose ends protected from dirt by wrapping them in a protective covering

MAINTENANCE OF THE NEVER STOP

Because of the normal operation of the machine, fasteners on all components can vibrate out of tightness or position. Maintain every 1 to 2 hours of operation.

There are two grease zerks on the 3-point hitch, one on top and one on bottom, grease every 10 hours of use.

Three zerks on over center cocking mechanism grease every 3 hours. Over greasing is not necessary. Three zerks on the 2" x 8" cylinder mounts and pivot arm, grease every 3 hours of use. Four located on pipe mounts, grease every 4 to 6 hours.

Grease the axle on rims and pivot every 4 to 6 hours of use.

SEQUENCE OF OPERATION FOR THE NEVER STOP

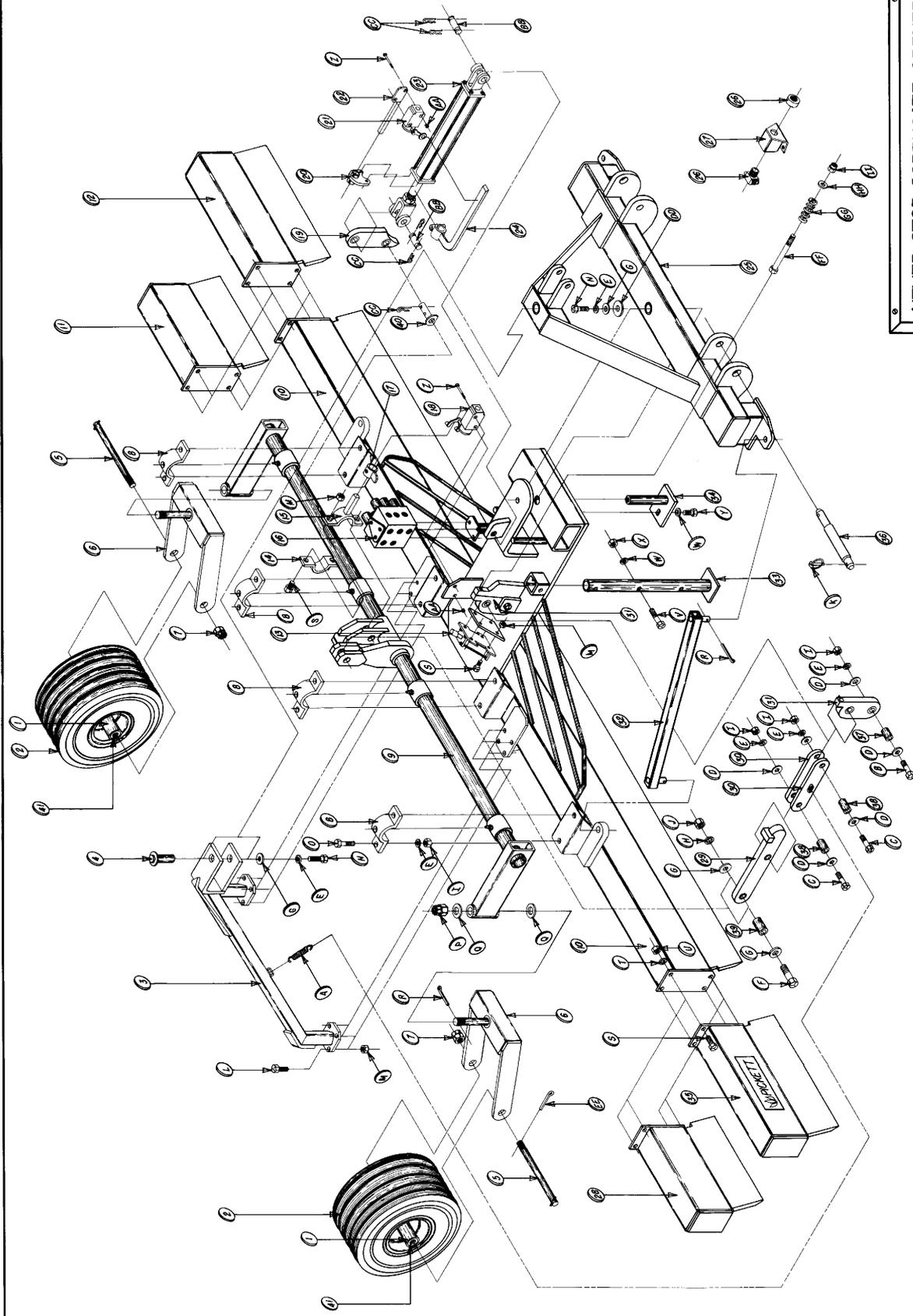
Pushing the button begins the sequence – powering electrical solenoids C1 & B2 – which extends the small ram tripping the blade.

(Electrical drawings are shown at this point with the blade tripped).

Electrical power can now pass through limit switch # 3 (located on the wheel pipe assembly) terminals 7 to 8 and 3 to 4. This energizes electrical solenoids A2, B1 and C1 causing the small ram to retract and the large ram to extend.

When the large ram has fully extended limit switch # 3 will trip this will allow power to go through limit switch # 3 terminals 5 to 6 and 1 to 2. Power will now continue to limit switch # 2 (located on the large ram) 8 to 7 and 4 to 3. This energizes electrical solenoids A1 and C1 causing the large ram to retract until limit switch 2 is tripped completing the cycle.

NEVER STOP CORRUGATE OPENER



NEVER STOP CORRUGATE OPENER (1988–Present)

Complete Parts Breakdown

Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1.	123000	Wheel, Steel (Obsolete, use update kit no. 405020)
2.	120000	Tire (Obsolete, use update kit no. 405020)
3.	600102	Top Hitch Assembly
4.	600110	Top Hitch Pin
5.	600123	Wheel Axle
6.	600003	Wheel Fork Assembly
7.		1" Castellated Hex Nut
8.	600064	Wheel Pipe Mount Bracket
9.	600108	Wheel Pipe Assembly
10.	600126	Main Frame Assembly
11.	600045	18" L.H. Blade Extension–Optional
12.	600053	24" L.H. Blade Extension Assembly
13.	103028	Cylinder, Hydraulic 1½" × 1" (Not Shown; Seal Kit - Part no. 119305)
14.	600079	Limit Switch Clamp
15.	600106	Limit Switch Clamp Assembly
16.	122008	Valve, Hydraulic Solenoid (Replacement Coil # 103176; Valve Body Springs avl.)
17.	600112	Limit Switch Trigger Collar Assembly
18.	119029	Switch, Limit (Not Shown; Fork Lever - Part no. 112001)
19.	600062	Large Ram Arm
20.	600127	Limit Switch Slide Mouth Assembly
21.	119055	Switch Limit (Not Shown; Adj. Roller Lever–Part no. 112000)
22.	600111	Large Ram Slide Assembly
23.	103027	Cylinder, Hydraulic Corrugate (2½" × 8")
24.	600109	Large Ram Trigger Assembly
25.	600001	Three Point Hitch Assembly
26.	119058/119057	Switch, Push Button Assembly
27.	600095	Switch Housing Assembly
28.	600046	18" R.H. Blade Extension–Optional
29.	600036	Wheel Pipe Linkage Assembly
30.	600063	Control Link Arm
31.	600094	Linkage Pivot Arm
32.	600004	Angle Support Arm Assembly
33.	600105	Jack Stand Assembly
34.	600115	Pin Plate Assembly
35.	600054	24" R.H. Blade Extension Assembly
36.	116001	Draw Pin
37.	600124	Trip Pin Bushing–Short
38.	600125	Trip Pin Bushing–Long
39.	600065	Wheel Pipe Control Arm Bushing
40.	600078	Large Ram Control Arm Pin
41.	102001	Bearing, Wheel Cone (See Item no. 1)
Not Shown	119024	Seal, Bearing (See Item no. 1)
Not Shown	102002	Bearing, Wheel Race Cup (See Item no. 1)
Not Shown	103092	Cylinder, Blade Angle Ram–Optional (used in place of item 32)

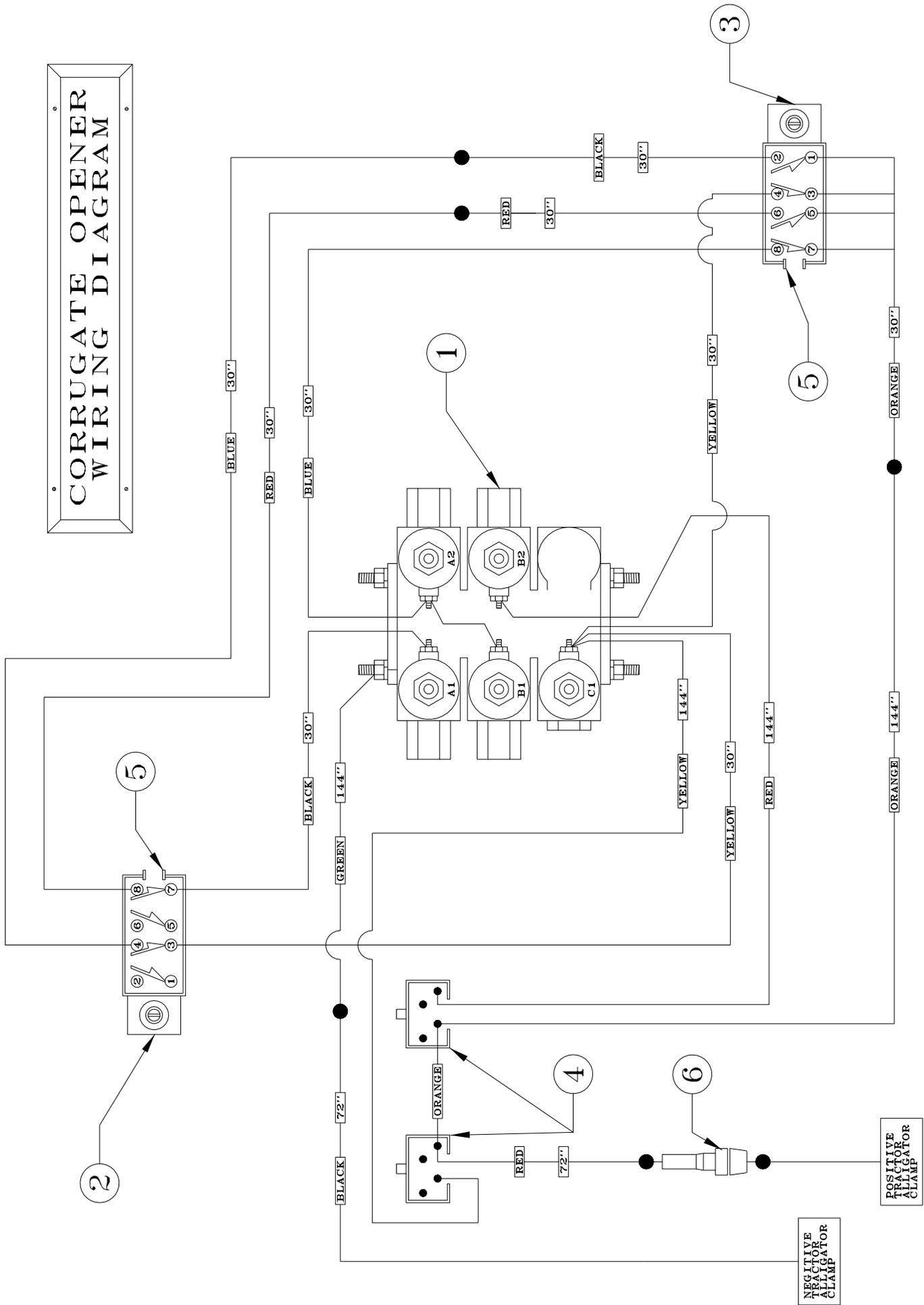
NEVER STOP CORRUGATE OPENER, (1988–Present)

Complete Parts Breakdown

Hardware List

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
A.	119060	1/8" × 1" × 3" Extension Spring
B.		5/8" × 3 1/4" NC Hex Bolt
C.		5/8" × 3 1/2" NC Hex Bolt
D.		5/8" Flat Washer
E.		5/8" Lock Washer
F.		3/4" × 3" NC Hex Bolt
G.		3/4" Flat Washer
H.		3/4" Lock Washer
I.		5/8" NC Hex Nut
J.		3/4" NC Hex Nut
K.		116002
L.	7/16" x 1" NC Hex Bolt	
M.	7/16" NC Whiz Nut	
N.	5/8" x 1 1/2" NC Hex Bolt	
O.	5/8" x 2 1/2" NC Hex Bolt	
P.		1 1/4" NF Castellated Hex Nut
Q.		1 3/4" Flat Washer
R.		1/4" × 2 1/2" Cotter Pin
S.		7/16" x 1 1/4" NC Hex Bolt
T.		7/16" Lock Washer
U.		7/16" NC Hex Nut
V.		1/2" × 3 1/2" NC Hex Bolt
W.		1/2" Lock Washer
X.		1/2" NC Hex Nut
Y.		1/2" × 2 1/2" NC Hex Bolt
Z.		10-32 x 2" Cap Screw
AA.		10-32 Lock Nut
BB.		Ram Pin
CC.		116009
DD.	1" Flat Washer	
EE.	119061	3/16" × 2 1/2" Cotter Pin
FF.		7/16" × 6" NC Hex Bolt–grade 8
GG.		Compression Spring
HH.		7/16" Flat Washer
II.		7/16" NC Nyloc Hex Nut

CORRUGATE OPENER WIRING DIAGRAM

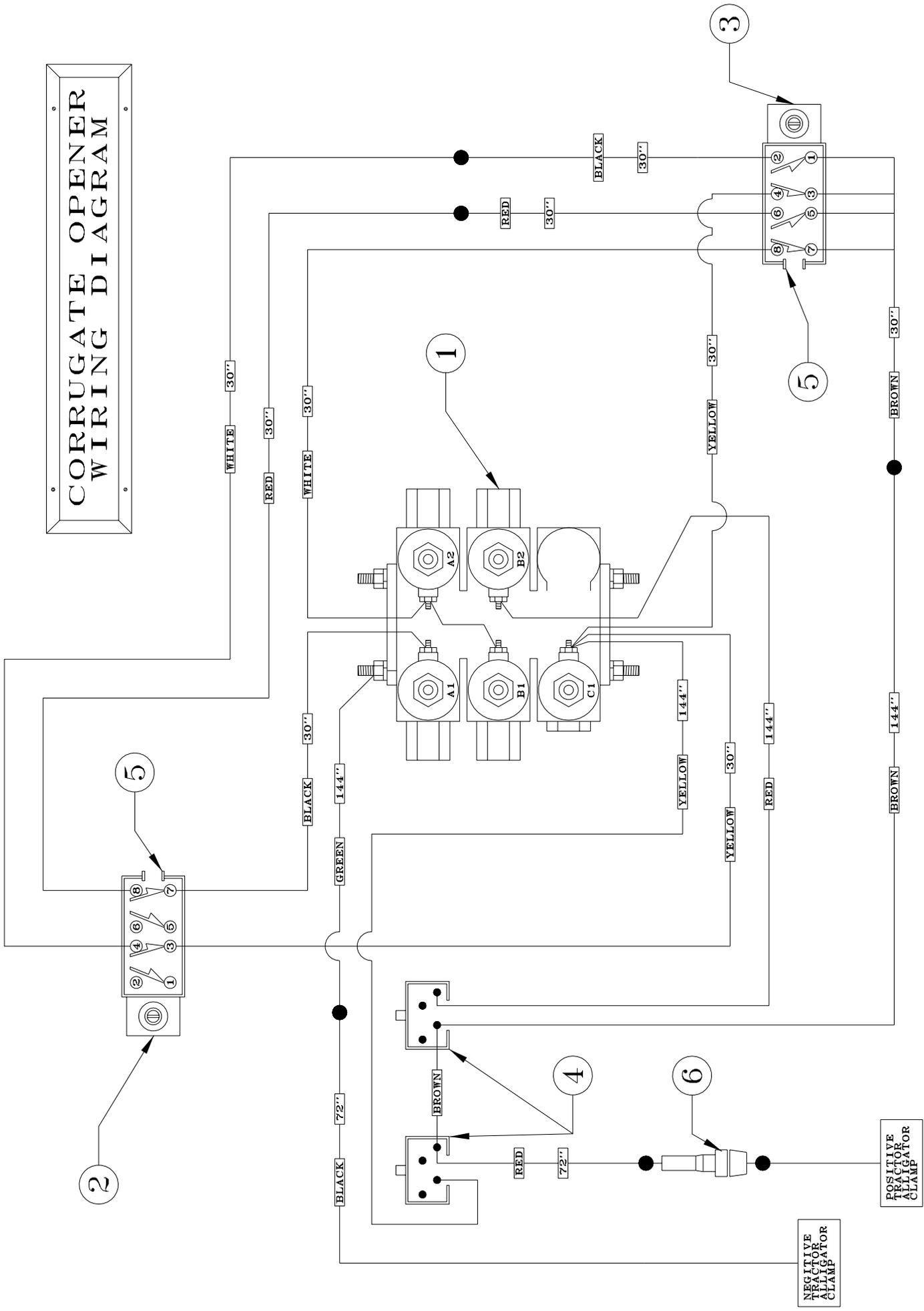


Wiring Diagram (1988–1994)

Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1.	122008	Solenoid Valve (12V DC) (mounted to main frame)
2.	119055	Limit Switch (802TATP) (mounted on the 8" retract ram)
Not Shown	112000	Lever, Roller Adjustable (802TW2C) (mounted on item no. 2)
3.	119029	Limit Switch (802TAMTP) (mounted on main frame)
Not Shown	112001	Lever, Fork Steel (802TW4C) (mounted on item no. 3)
4.	119057	Contact Switch (800TXA) (mounted in the tractor cab)
Not Shown	119058	Switch, Push Button Assembly (800TB1A) (mounted on item 4)
5.	108061	Holder, Wire 1/2" x 3/8" (CGB194) (used on items 2 & 3)
6.		Buss Fuse (HRK-20 amp) (buy this part locally)

CORRUGATE OPENER WIRING DIAGRAM



Wiring Diagram, (1995–1997)

Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1.	122008	Solenoid Valve (12V DC) (mounted to main frame)
2.	119055	Limit Switch (802TATP) (mounted on the 8" retract ram)
Not Shown	112000	Lever, Roller Adjustable (802TW2C) (mounted on item no. 2)
3.	119029	Limit Switch (802TAMTP) (mounted on main frame)
Not Shown	112001	Lever, Fork Steel (802TW4C) (mounted on item no. 3)
4.	119057	Contact Switch (800TXA) (mounted in the tractor cab)
Not Shown	119058	Switch, Push Button Assembly (800TB1A) (mounted on item 4)
5.	108061	Holder, Wire 1/2" x 3/8" (CGB194) (used on items 2 & 3)
6.		Buss Fuse (HRK-20 amp) (buy this part locally)

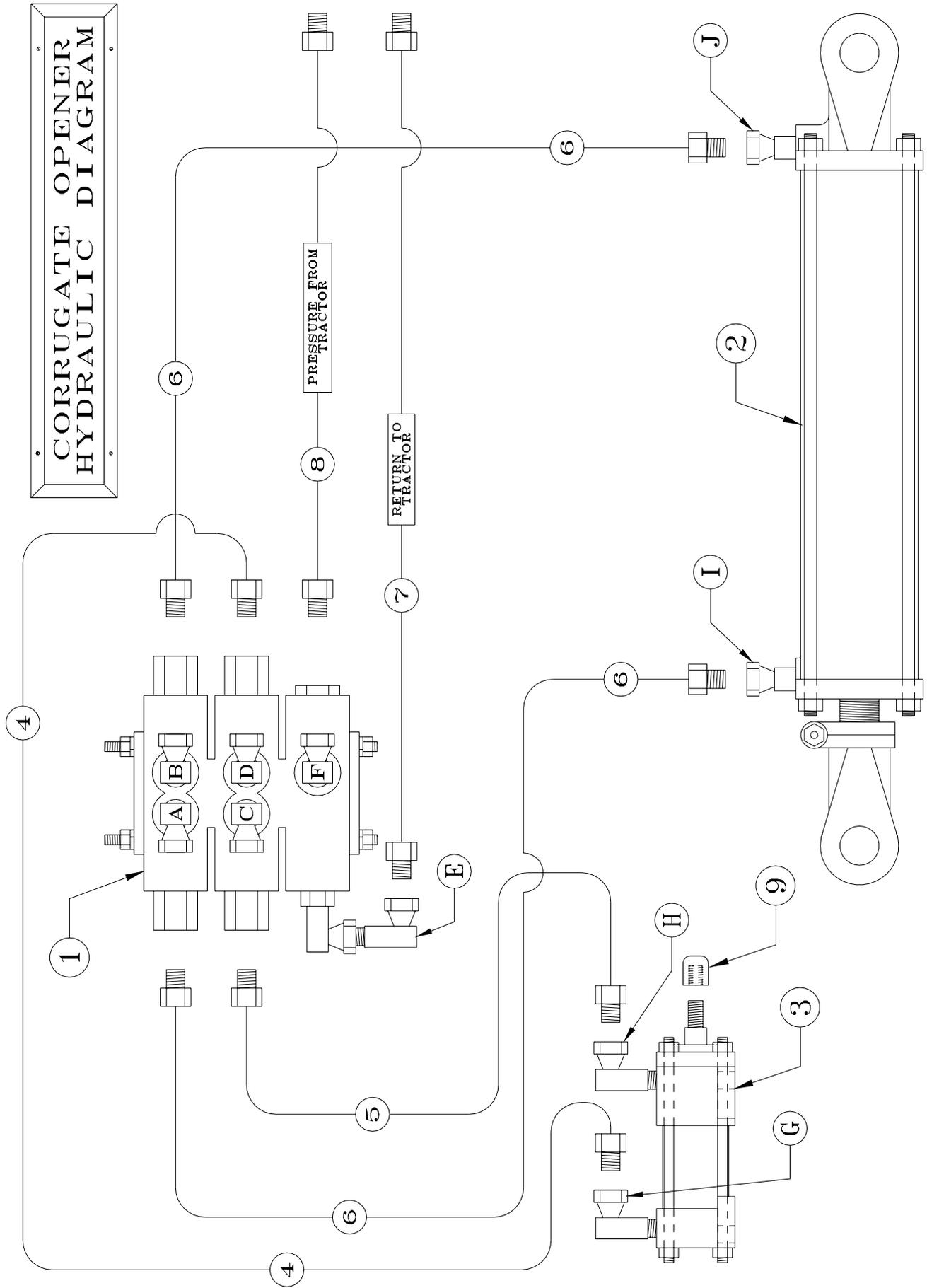
WIRING DIAGRAM (1998–Present)

Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1.	122039	Valve, Directional (Includes: 116030 & 122042)
2.	116030	Plug, Solenoid Electrical
3.	122042	Valve, Body Solenoid
4.	122041	Valve, Solenoid (Used on open center tractors)
5.	119029	Limit Switch (802TAMTP) (mounted on main frame)
Not Shown	112001	Lever, Fork Steel (802TW4C) (mounted on Item 5)
6.	119055	Limit Switch (802TATP) (mounted on 8" retract ram)
Not Shown	112000	Lever, Roller Adjustable (802TW2C) (mounted on Item 6)
7.	108061	Holder, Wire ½" x ⅜" (CGB194) (used on Items 5 & 6)
8.	119057	Contact Switch (800TXA) (mounted in the tractor cab)
9.		Buss Fuse (HRK-20 Amp) (buy this part locally)
10.**	122043	Valve, Plug
Not Shown	122038	Valve, Corrugate Control (Includes (2) 122039, 122040, 122041)

** When using the Corrugate Opener on a closed center tractor, replace item no. 4 (122041) with this valve plug no. 122043.

CORRUGATE OPENER
HYDRAULIC DIAGRAM



Hydraulic Diagram, (1988–1997)

Parts List

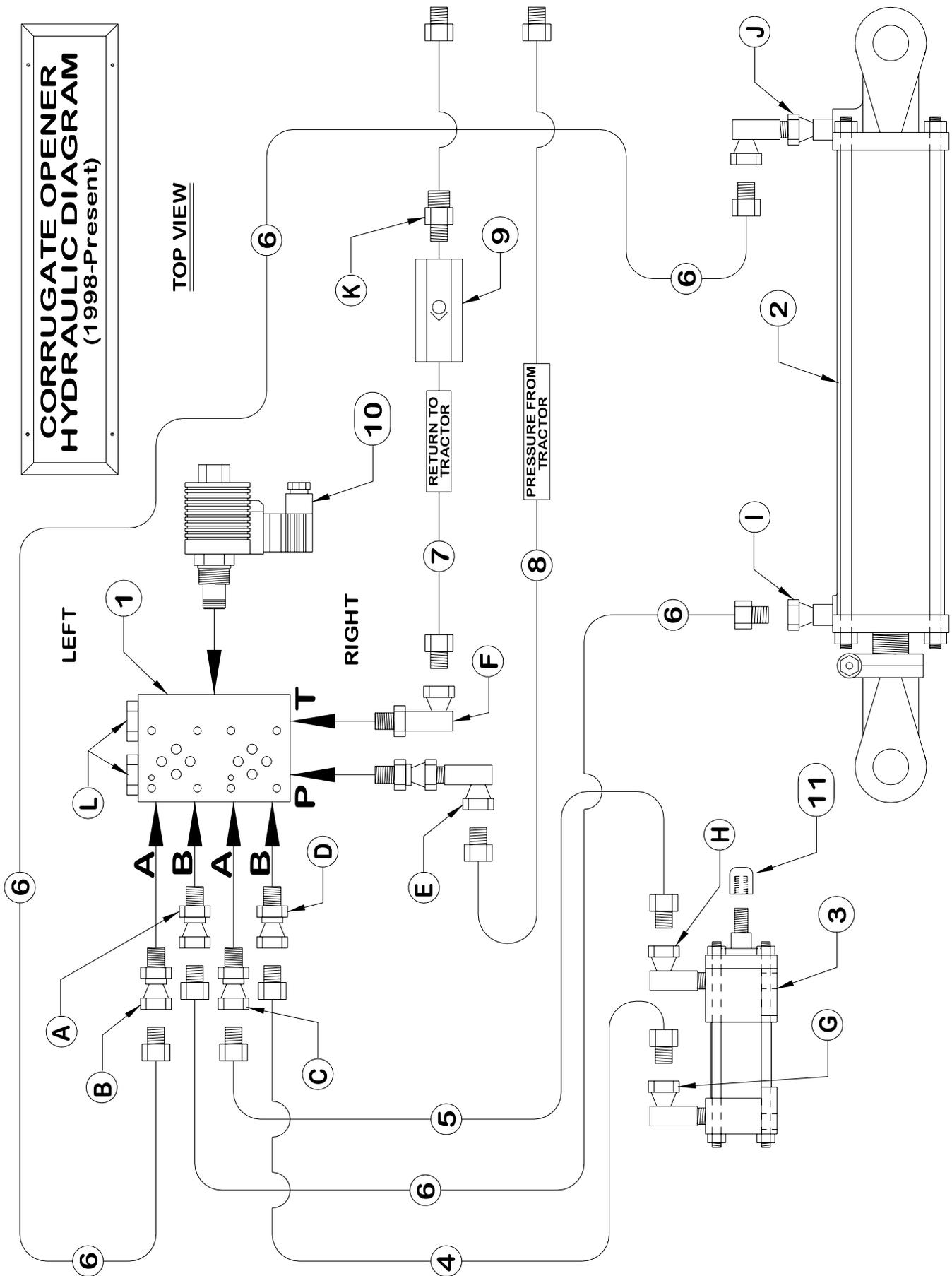
<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1.	122008	Solenoid Valve (12V DC) (mounted to main frame)
1a.	103176	Coil, Replacement for Item 1
1b.		Valve Body Replacement Springs for Item 1
2.	103027	Wheel Ram Hydraulic Cylinder (2½" x 8")
3.	103028	Lock Ram Hydraulic Cylinder (1½" x 1")
3a.	119305	Seal Kit, for Item 3
4.	108032	Solenoid Valve to Lock Ram Hose (4M2T-6MP6MP-02600)
5.	108033	Solenoid Valve to Lock Ram Hose (4M2T-6MP6MP-02200)
6.	108031	Solenoid Valve to Wheel Ram Hose (6M2T-6MP6MP-02250)
7.	108030	Return to Tractor Hose (8M2T-8MP8MP-07250)
8.	108029	Pressure from Tractor Hose (8M2T-8MP8MP-06450)
9.	600137	Lock Ram Pusher Cap
Not Shown	108034	Angle Ram to Tractor Pressure (Opt) (8M2T-8MP8MP-07000)
Not Shown	108035	Angle Ram to Tractor Return (Opt) (8M2T-8MP8MP-08200)
Not Shown	103092	Angle Ram Hydraulic Cylinder (Optional) (3" x 12")

Hardware List

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
A.	101086/101006	6900-8-6 Straight, 1501-6-6 90°
B.	101086/101006	6900-8-6 Straight, 1501-6-6 90°
C.	101086	6900-8-6 Straight
D.	101086	6900-8-6 Straight
E.	101088/101008	6901-10-8 90°, 1501-8-8 90°
F.	101092	6901-8-8 90°
G.	101006	1501-6-6 90°
H.	101006	1501-6-6 90°
I.	101155	6900-6-6 O-Ring, Straight
J.	101155	6900-6-6 O-Ring, Straight

**CORRUGATE OPENER
HYDRAULIC DIAGRAM
(1998-Present)**

TOP VIEW



Hydraulic Diagram (1998–Present)

Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1.	122040	Valve, Manifold (mounted to main frame)
2.	103027	Wheel Ram Hydraulic Cylinder (2½" x 8")
3.	103028	Lock Ram Hydraulic Cylinder (1½" x 1")
3a.	119305	Seal Kit, for Item 3
4.	108032	Solenoid Valve to Lock Ram Hose (4M2T-6MP6MP-02600)
5.	108033	Solenoid Valve to Lock Ram Hose (4M2T-6MP6MP-02200)
6.	108031	Solenoid Valve to Wheel Ram Hose (6M2T-6MP6MP-02250)
7.	108160	Return to Tractor Hose (8M2T-8MP8MB-06500)
8.	108029	Pressure from Tractor Hose (8M2T-8MP8MP-06450)
9.	122025	Valve, Check
**10.	122041	Valve, Solenoid (use on open center tractors)
11.	600137	Lock Ram Pusher Cap
Not Shown	108034	Angle Ram to Tractor Pressure (opt.) (8M2T-8MP8MP-07000)
Not Shown	108035	Angle Ram to Tractor Return (opt.) (8M2T-8MP8MP-08200)
Not Shown	103092	Angle Ram Hydraulic Cylinder (Optional) (3" x 12")
Not Shown	122038	Valve, Corrugate Control (Includes (2) 122039, 122040, 122041)

Hardware List

<u>Item no.</u>	<u>Part No.</u>	<u>Description</u>
A.	101086	6900-8-6 O-Ring Straight
B.	101086	6900-8-6 O-Ring Straight
C.	101086	6900-8-6 O-Ring Straight
D.	101086	6900-8-6 O-Ring Straight
E.	101122/101008	6900-10-8 O-Ring Straight, 1501-8-8 90°
F.	101088	6901-10-8 90° O-Ring
G.	101006	1501-6-6 90°
H.	101006	1501-6-6 90°
I.	101155	6900-6-6 O-Ring, Straight
J.	101155/101006	6900-6-6 O-Ring, Straight, 1501-6-6 90°
K.	101163	6401-8-8 O-Ring, Straight
L.	101164	6408-10 Plug

** When using the Corrugate Opener on a closed center tractor, replace Item No. 10 (122041) with valve plug (122043) (Not Shown).



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