

# OWNER'S, OPERATION, MAINTENANCE & PARTS MANUAL

# Apollo A-300

Mid-Range Rear Loader



Rear Loader Models:

A300-16

A300-18

A300-20

A300-25

Starting with S/N 311240

KEEP THIS MANUAL IN VEHICLE AT ALL TIMES!



**E-Z PACK MANUFACTURING, LLC**

200 Ladish Road, Cynthiana, KY 41031 ♦ 800-331-0136 ♦ Fax 859-234-0061

# **WARNING**

**ALL APPLICABLE OSHA REGULATIONS MUST BE UNDERSTOOD AND OBSERVED WHEN OPERATING OR BEFORE PERFORMING ANY SERVICE OR MAINTENANCE ON THIS CLEAN EARTH E-Z PACK PRODUCT.**

REFERENCED: Public Law 91-596, December, 1970, 84 Statute 1593 (including among others, but not limited to the following), Section 5.

(a) Each employer -

(1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;

(2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his own actions and conduct.

# **SAFETY NOTICE**

Proper service and repair are important to the safe, reliable operation of Clean Earth E-Z Pack products. Operational and servicing procedures recommended by Clean Earth E-Z Pack are in this manual and are effective for proper use of this product. Some of these operations may require the use of tools or blocking devices specifically designed for the purpose. Special tools should be used when and as recommended. It is important to note that warnings against the use of specific operations or methods that can damage the product or render it unsafe are stated in this manual. It is also important to understand these warnings are not exhaustive. Clean Earth E-Z Pack can not possibly know, evaluate, and advise the service trade of all conceivable ways in which operation or service might be performed or of the possible hazardous consequences of each method. Accordingly, anyone who uses operational procedures, service procedures, or tools whether recommended by Clean Earth E-Z Pack or not must first satisfy himself thoroughly that neither his safety nor the product safety will be jeopardized by the methods he shall select.

(PL-0538D 11/03)

### ***IMPORTANT NOTICE:***

THIS CLEAN EARTH E-Z PACK REAR LOADER CONFORMS TO AMERICAN NATIONAL STANDARD FOR REFUSE COLLECTING AND COMPACTING EQUIPMENT - SAFETY REQUIREMENTS, ANSI Z245.1-1992.

IT IS ESSENTIAL THAT EVERYONE ASSOCIATED IN ANY WAY WITH CLEAN EARTH E-Z PACK REAR LOADERS THOROUGHLY UNDERSTAND AND APPLY THE CONTENTS OF AMERICAN NATIONAL STANDARD FOR REFUSE COLLECTING AND COMPACTING EQUIPMENT - SAFETY REQUIREMENTS, ANSI Z245.1-1992.

A COPY OF THESE SAFETY REQUIREMENTS CAN BE OBTAINED BY CONTACTING: AMERICAN NATIONAL STANDARDS INSTITUTE, INC., 1430 BROADWAY, NEW YORK, NEW YORK 10018, REQUESTING A COPY OF ANSI Z245.1-1992.

If your rear loader chassis is equipped with an automatic transmission, we have provided an inter-lock, which prevents the engine speed from being advanced automatically with the transmission in other than the neutral position. this prevents the rear loading compaction vehicle from moving inadvertently when the packing cycle is actuated. **"CAUTION" DO NOT ALTER.**

Any person reconstructing or modifying this rear loader must do so in accordance with Sections 4.3 and 5.2 of ANSI Z245.1-1992.

A lockout procedure for this rear loader has been established and must be followed whereby the power shall be shut off and the ignition key removed before and during repairs to the packing cycle operation except during maintenance testing.

An employee that is required to use or operate this rear loading unit shall only do so after being properly instructed and trained.

### ***CHANGE OF OWNERSHIP OR ADDRESS:***

FEDERAL LAW REQUIRES US TO CONTACT YOU IN THE EVENT OF A SAFETY RELATED DEFECT DISCOVERY. PLEASE KEEP YOUR CLEAN EARTH E-Z PACK DISTRIBUTOR INFORMED OF ANY CHANGE OF UNITS OWNERSHIP OR ADDRESS.

THIS OWNER'S MANUAL SHOULD BE CONSIDERED A PERMANENT PART OF YOUR UNIT AND SHOULD BE WITH THE UNIT AT RE-SALE. KEEP THIS OWNER'S MANUAL HANDY FOR READY REFERENCE.

### **NOTICE:**

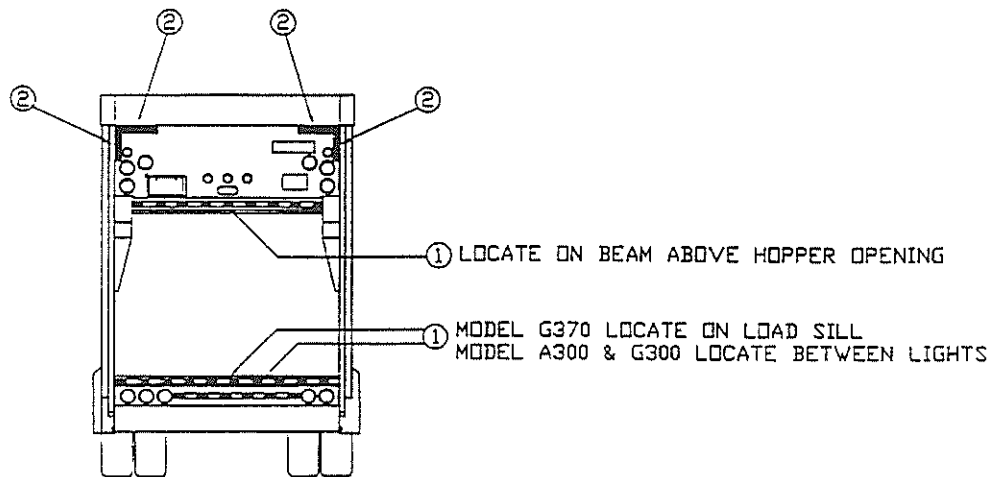
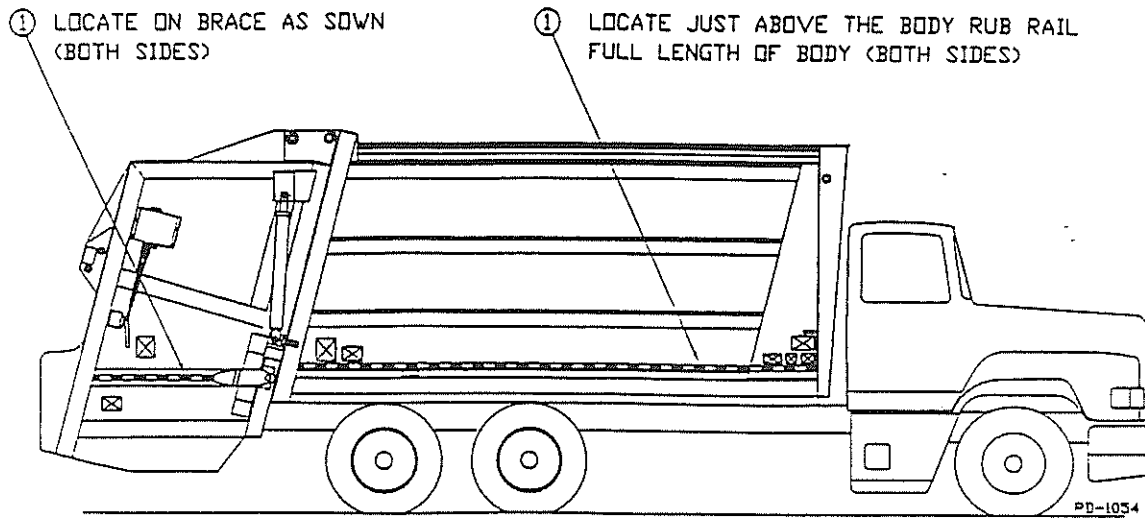
All illustrations shown in this manual are artist renditions and are not to be construed as scale or actual drawings. Consult our literature or Engineering Department for all specifications.

Clean Earth E-Z Pack reserves the right under its Product Improvement Program to modify construction and/or design details and furnish equipment when so altered without reference to illustrations and/or specifications shown herein. All specifications subject to change without notice.

### **DAILY MAINTENANCE**

- 1) Inspect all decals, making sure all are in place and that they are readable. (When required, order replacement decals from your nearby Clean Earth E-Z Pack Distributor; just specify appropriate part number).
- 2) Check hydraulic system oil supply, maintain recommended oil level.
- 3) Check for oil leaks. (Repair as necessary).
- 4) Make sure all lights and warning devices are working properly. (Repair as necessary).
- 5) Clean area under and behind ejector panel in cylinder areas so foreign material will not accumulate in this area. Also keep area between front of body and back of cab clean. **"CAUTION" WHEN CLEANING THIS AREA, STOP ENGINE AND REMOVE IGNITION KEY.**

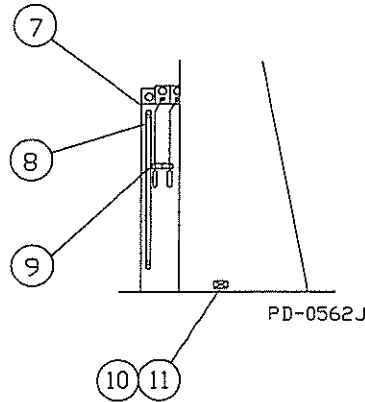
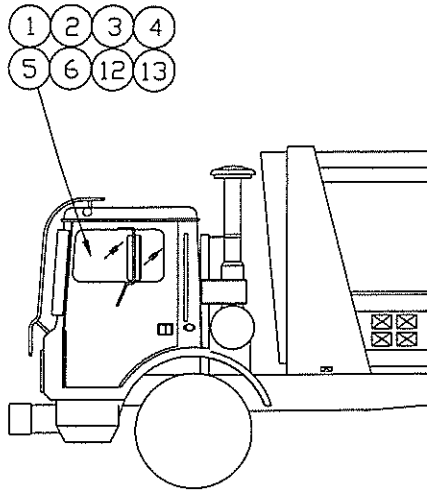
# CONSPICUITY TAPE INSTALLATION (REAR LOADER)



ITEM	PART NO.	DESCRIPTION	(PL-1054)	QTY.
	2047591000	Conspicuity Tape Installation Kit - Complete		1
1	1001882	Conspicuity Tape (Red & White) 65'		.433
2	1002200	Conspicuity Tape (White) 12" Lg.		4

**DECALS LOCATED IN CAB AND ON OIL TANK  
(MODEL A300 & G300 REAR LOADERS)**

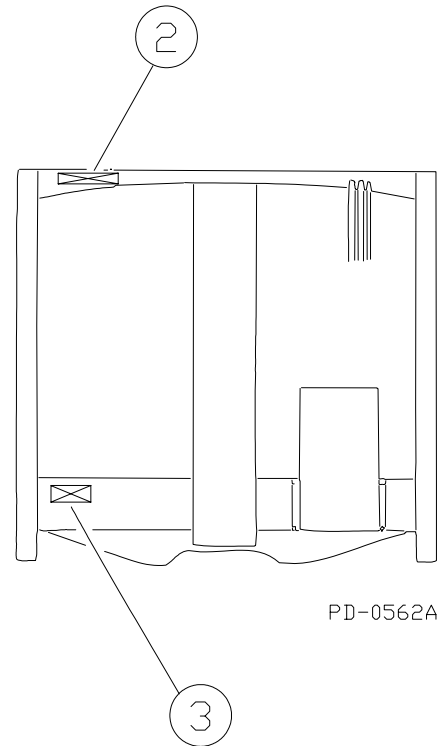
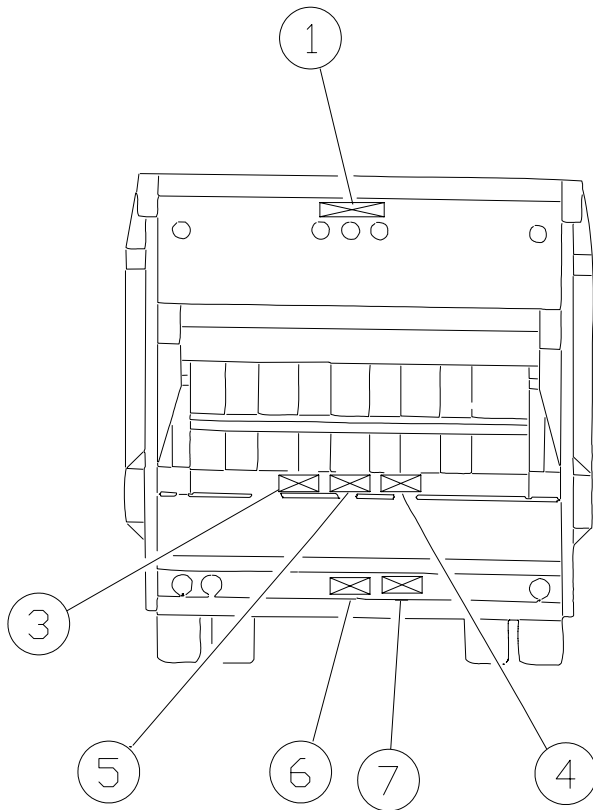
**NOTICE: INSPECT UNIT DAILY, MAKING SURE ALL DECALS ARE IN PLACE AND ARE READABLE.**



ITEM	PART NO.	DESCRIPTION	(PL-0562L)	QTY.
LOCATED ON DASH - VISIBLE TO DRIVER/OPERATOR.				
1	1047693000	"SAFETY INSTRUCTIONS" NO ONE SHALL OPERATE OR SERVICE THIS E-Z PACK UNIT UNTIL THEY HAVE READ AND UNDERSTAND THE OWNER'S MANUAL SUPPLIED.		1
LOCATED NEAR WIRE CONTROL POWER TAKE-OFF CONTROL.				
2	1048345000	OPERATIONAL DECAL FOR WIRE CONTROL PT0.		1
LOCATED UNDER LIGHT ON DASH.				
3	1060738000	BACKING OR GATE OPEN LIGHT DECAL.		1
LOCATED BY THROTTLE CONTROL SWITCH.				
4	1037998000	OPERATIONAL DECAL (PUSH-PULL SWITCH).		1
	1033688000	OPERATIONAL DECAL (TOGGLE SWITCH).		1
LOCATED ON VISOR - VISIBLE TO DRIVER/OPERATOR.				
5	1060776000	"WARNING" DO NOT USE RIDING STEPS WHEN - TRUCKS SPEED EXCEEDS 10 MPH - TRUCK IS BACKING UP - DISTANCE BETWEEN STOPS IS MORE THAN 2/10 MILE - DO NOT GET ON OR OFF STEPS WHILE TRUCK IS MOVING.		1
6	1068910000	"DANGER" DO NOT TOW TRAILERS WITH THIS REAR LOADING REFUSE COLLECTION VEHICLE.		1
LOCATE AS SHOWN.				
7	1053687000	HYDRAULIC OIL DECAL.		1
8	1066827000	OIL LEVEL DECAL.		1
9	1068292000	OPERATIONAL DECAL - FRONT CONTROL VALVE.		1
10	1048822000	OPERATIONAL DECAL (TOGGLE SWITCH).		1
11	1059482000	OPERATIONAL DECAL (PUSH-PULL SWITCH).		1
12	2114831	LABEL, PTO/PUMP LIGHT		1
13	2114832	LABEL, REAR FLOODLIGHT		1

**FRONT AND REAR VIEW DECAL LOCATIONS  
(MODEL A300 & G300 REAR LOADERS)**

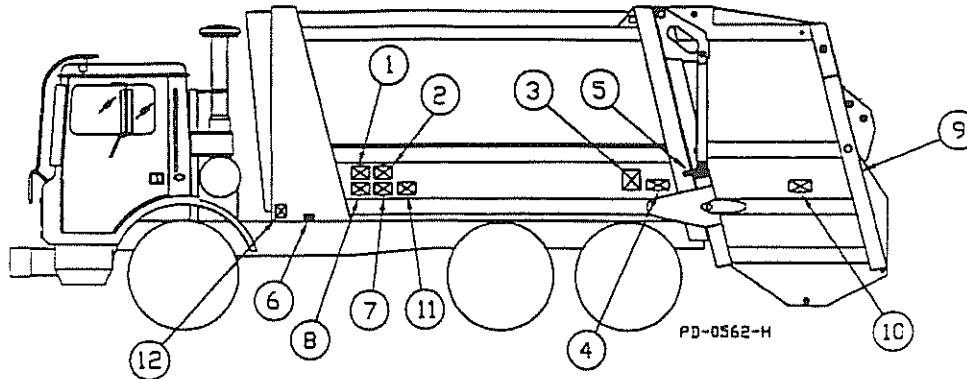
**NOTICE: INSPECT UNIT DAILY, MAKING SURE ALL DECALS ARE IN PLACE AND ARE READABLE.**



PD-0562A

ITEM	PART NO.	DESCRIPTION	(PL-0562K)	QTY.
1	1001393	CLEAN EARTH / E-Z PACK NAME DECAL		1
2	1001393	CLEAN EARTH / E-Z PACK NAME DECAL		1
3	1047672000	"WARNING" STOP ENGINE REMOVE IGNITION KEY BEFORE ENTERING BODY.		1
4	1047664000	"DANGER" STAND CLEAR WHEN PACKER PANEL IS IN MOTION		1
5	1048827000	"WARNING" WEAR ELYE AND FACE PROTECTION WHEN CYCLING PACKER PANEL		1
6	1047662000	"DANGER" STAND CLEAR WHEN TAILGATE IS IN MOTION AND DURING UNLOADING CYCLE. DO NOT STAND UNDER OR CROSS UNDER A RAISED TAILGATE UNLESS IT IS PROPERLY PROPPED OR BLOCKED.		1
7	1068910000	"DANGER" DO NOT TOW TRAILERS WITH THIS REAR LOADING REFUSE COLLECTION VEHICLE		1

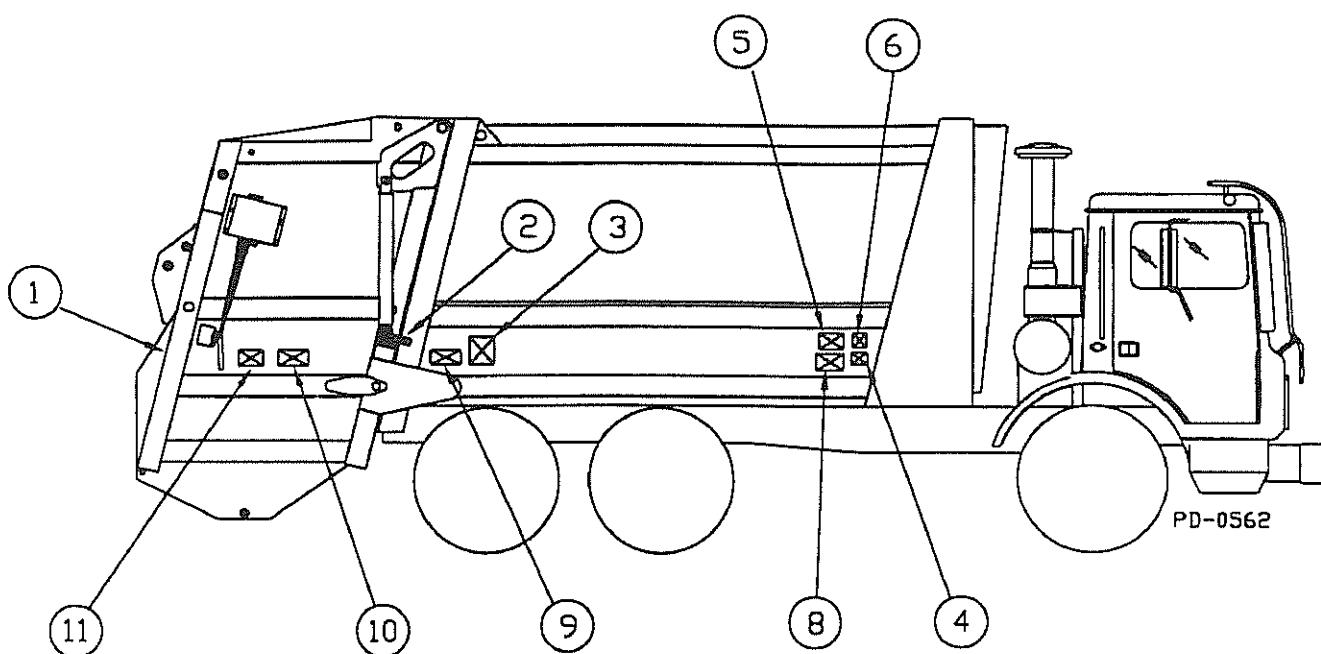
**NOTICE: INSPECT UNIT DAILY, MAKING SURE ALL DECALS ARE IN PLACE AND ARE READABLE.**



ITEM	PART NO.	DESCRIPTION (PL-0562J)	QTY.
1	1064062000	"NOTICE" DO NOT PACK AGAINST A FULLY EXTENDED EJECTION CYLINDER. - BEFORE LOADING AND WITH THE BODY EMPTY, EXTEND THE EJECTION PANEL CYLINDER COMPLETELY REARWARD, THEN FULLY RETRACT THE SMALLEST STAGE. - DO NOT PACK WITH EJECTION PANEL.	1
2	1061089000	"CAUTION" THIS VEHICLE REQUIRES XXFT. XXIN. OF OVERHEAD CLEARANCE WITH ALL EQUIPMENT POSITIONED FOR OVER-THE-ROAD TRAVEL AS ORIGINALLY MOUNTED.	1
3	2103757	"SAFETY INSTRUCTIONS" OPERATION OF TAILGATE PROPS	1
4	1047662000	"DANGER" STAND CLEAR WHEN TAILGATE IS IN MOTION AND DURING UNLOADING CYCLE. DO NOT STAND UNDER OR CROSS UNDER A RAISED TAILGATE UNLESS IT IS PROPERLY PROPPED OR BLOCKED.	1
5	1059481000	"NOTICE" GATE FULLY LOCKED WHEN ARROWS ARE IN ALIGNMENT (CHECK BOTH SIDES)	1
6	1048822000	THROTTLE ADVANCE DECAL (TOGGLE SWITCH)	1
	1059482000	THROTTLE ADVANCE DECAL (PUSH-PULL SWITCH)	1
7	1047666000	"NOTICE" DO NOT ALLOW MATERIAL TO ACCUMULATE FORWARD OF EJECTOR PANEL. MATERIAL BUILD UP CAN RESULT IN DAMAGE TO YOUR EQUIPMENT	1
8	1047672000	"WARNING" STOP ENGINE REMOVE" IGNITION KEY BEFORE ENTERING BODY.	1
9	1053688000	BUZZER DECAL	1
10	1060766000	"WARNING" DO NOT USE RIDING STEPS WHEN: TRUCKS SPEED EXCEEDS 10 MPH - TRUCK IS BACKING UP - DISTANCE BETWEEN STOPS IS MORE THAN 2/10 MILE - DO NOT GET ON OR OFF STEPS WHILE TRUCK IS MOVING	1
11	1047674000	"WARNING" KEEP ACCESS DOORS CLOSED WHEN EJECTOR PANEL IS IN MOTION	1
12	1002218	SMART STEEL DECAL	1

**CURBSIDE DECAL LOCATIONS  
(MODEL A300 & G300 REAR LOADERS)**

**NOTICE: INSPECT UNIT DAILY, MAKING SURE ALL DECALS ARE IN PLACE AND ARE READABLE.**



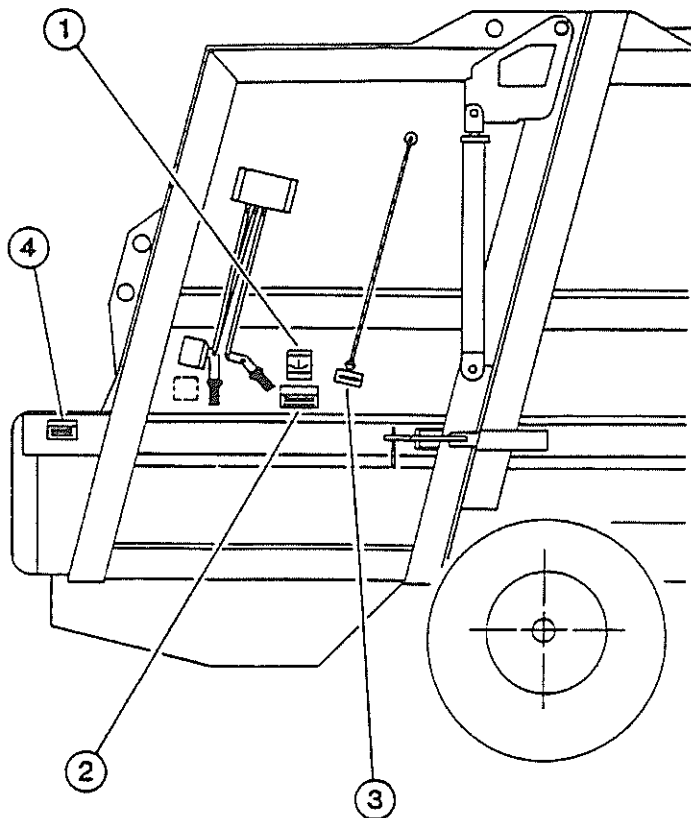


# CURBSIDE DECAL LOCATIONS

ITEM	PART NO.	DESCRIPTION (PL-0562G)	QTY.
1	1053688000	BUZZER DECAL	1
2	1059480000	"NOTICE" GATE FULLY LOCKED WHEN ARROWS ARE IN ALIGNMENT (CHECK BOTH SIDES)	1
3	2103757	"SAFETY INSTRUCTIONS" OPERATION OF TAILGATE PROPS	1
4	1026515000	SERIAL NUMBER PLATE	1
5	2103395	PATENTS DECAL	1
6	1021071000	CAP PLATE	1
8	2103381	SIGN CLASSIFICATION DECAL	1
9	1047662000	"DANGER" STAND CLEAR WHEN TAILGATE IS IN MOTION AND DURING UNLOADING CYCLE. DO NOT STAND UNDER OR CROSS UNDER A RAISED TAILGATE UNLESS IT IS PROPERLY PROPPED OR BLOCKED.	1
10	1060766000	"WARNING" DO NOT USE RIDING STEPS WHEN: TRUCKS SPEED EXCEEDS 10 MPH - TRUCK IS BACKING UP - DISTANCE BETWEEN STOPS IS MORE THAN 2/10 MILE - DO NOT GET ON OR OFF STEPS WHILE TRUCK IS MOVING	1
11	1048292000	OPERATION REAR CONTROL VALVE DECAL	1

**LOCATION OF DECALS FOR OPTIONAL CONTAINER DUMPERS  
(MODEL A300 & G300 REAR LOADERS)**

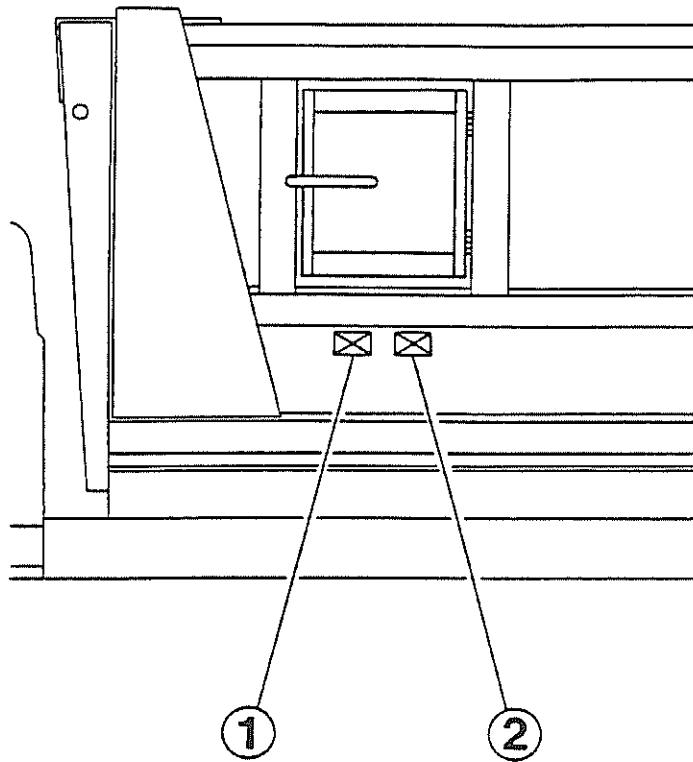
**NOTICE: INSPECT UNIT DAILY, MAKING SURE ALL DECALS ARE IN PLACE AND ARE READABLE.**



ITEM	PART NO.	DESCRIPTION	(PL-0702A)	QTY.
1	1052065000	OPERATIONAL DECAL - USED WHEN UNIT IS EQUIPPED WITH A REEVING DUMPER, OVERHEAD WINCH DUMPER AND/OR A HYDRAULIC DUMPER.		1
2	1047671000	"WARNING" KEEP CLEAR AT ALL TIMES WHEN CONTAINER IS OFF GROUND (ONE EACH SIDE).		2
3	1060558000	OPERATIONAL DECAL - USED WHEN HYDRAULIC DUMPER IS USED WITH EITHER A REEVING DUMPER OR A OVERHEAD WINCH DUMPER.		1
4	1068897000	"WARNING" CONTAINER LATCH ARMS MUST BE ENGAGED & LOCKED ON CONTAINER AT ALL TIMES DURING RAISING & LOWERING OF CONTAINER (ONE EACH SIDE).		2

**LOCATION OF DECALS FOR OPTIONAL STREETSIDE DOOR  
(MODEL A300 & G300 REAR LOADERS)**

**NOTICE: INSPECT UNIT DAILY, MAKING SURE ALL DECALS ARE IN  
PLACE AND ARE READABLE.**



ITEM	PART NO.	DESCRIPTION	(PL-0701A)	QTY.
1	1047672000	"WARNING" STOP ENGINE REMOVE IGNITION KEY BEFORE ENTERING BODY.		1
2	1047674000	"WARNING" KEEP ACCESS DOORS CLOSED WHEN EJECTOR PANEL IS IN MOTION.		1

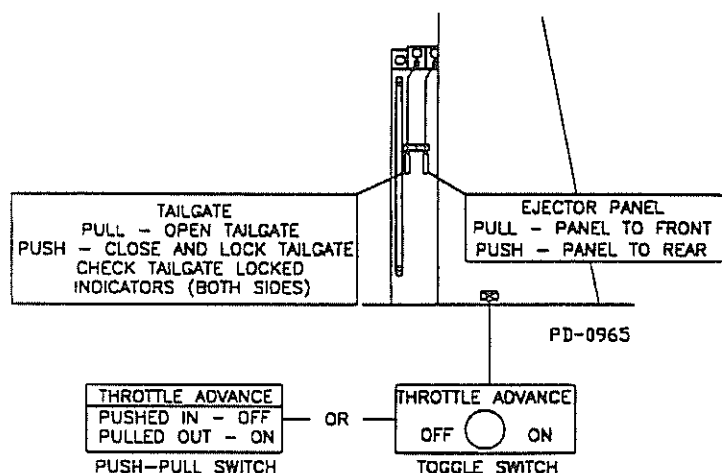


To engage the Power Take-Off on a automatic transmission, set emergency brake, shift into any one of the ve positions (this will stop transmission gears from turning). Shift Power Take-Off into gear, then shift transmission into neutral. This will start transmission gears turning, and in turn, Power Take-Off into operation.

**NOTE: ALWAYS DISENGAGE THE POWER TAKE-OFF BEFORE MOVING VEHICLE. AVOID DRIVING EVEN SHORT DISTANCES WITH POWER TAKE-OFF IN GEAR.**

#### OUTSIDE CONTROLS:

There are two operator control areas on the Rear Loader. One is located at the left (streetside) front corner of the body and the other is at the rear of the tailgate on the right hand (curbside) of the hopper. At the front location are two (2) manual control levers (See Figure 2). One is for the tailgate opening cylinders and the other is for the ejector panel cylinder, also a switch for manual throttle advance when using either of the two valve control levers. Since there is no electrical function to automatically accelerate the engine with either the ejector panel cylinder operation or with raising the tailgate, it is necessary to switch "ON" the throttle advance switch (See Figure 2) in order to increase the engine speed during these operations.



NOTICE: THIS UNIT IS WIRED SO THAT THE BACK-UP ALARM WILL SOUND AND A LABELED PILOT LITE WILL LITE WHEN THE UNIT IS PUT INTO REVERSE OR WHEN THE TAILGATE IS OPENED. SOUND AND LITE WILL CONTINUE UNTIL UNIT IS TAKEN OUT OF REVERSE AND/OR TAILGATE IS CLOSED. UNIT CANNOT BE DRIVEN SAFELY UNTIL SOUND HAS STOPPED AND LITE IS OFF.

FIGURE 2

Normally, the truck engine will operate at an idle when no controls on the packer are activated, the manual controls at the rear of the unit automatically advance the engine speed when one of the levers is operated.

#### LOADING:

**⚠ DANGER** STAND CLEAR WHEN PACKER PANEL IS IN MOTION.

## **⚠ WARNING**

DO NOT USE RIDING STEPS WHEN:

- TRUCKS SPEED EXCEEDS 10 M.P.H.
- TRUCK IS BACKING UP
- DISTANCE BETWEEN STOPS IS MORE THAN 2/10 MILE

DO NOT GET ON OR OFF STEPS WHILE TRUCK IS MOVING

### CONSTANT COMPRESSION:

Before beginning to load, the ejector panel should be positioned about two (2) feet from rear of the body. While loading, the packer panel will pack the refuse against the ejector panel which moves forward during packing. The combined pressure of the packer panel and ejector panel creates a well packed, fully loaded body.

### PACKING CYCLE:

The rear control levers depicted in Figure 3 permit an automatic split cycle and manual control of the packer panel.

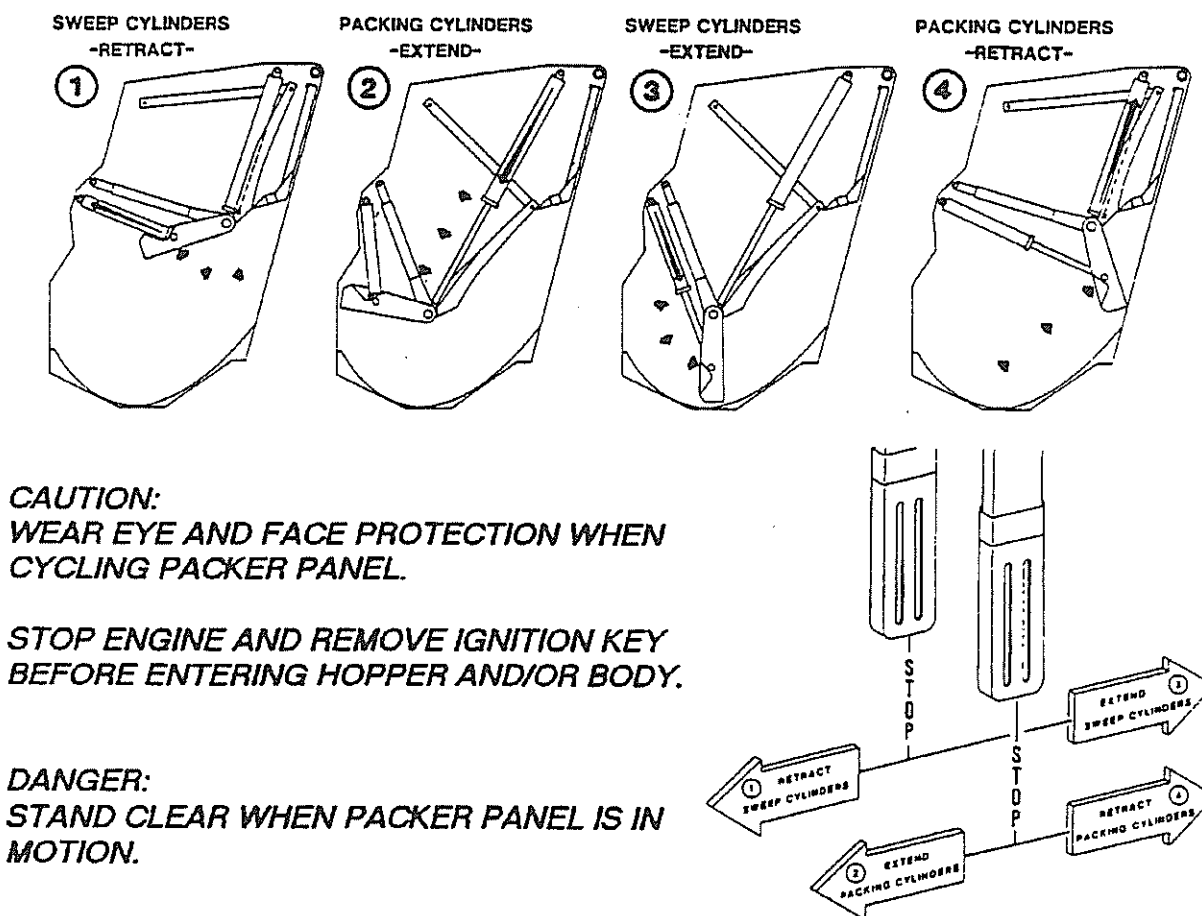


FIGURE 3

For normal operation, there are four stages in the cycle which are illustrated in Figure 3. For manual operation, any stage can be activated by pulling or pushing the correct control lever.

For Automatic Split Cycle: Pull both levers toward the rear of the unit. Levers when pulled fully back will remain in a cocked position and do not need to be held. The packer panel will automatically move through the first two stages of the cycle and stop automatically at the starting point of the third stage. Levers will return to "STOP" position automatically.

After the first half of the cycle has been completed, check that area around loading sill is clear of all personnel and that cycle can be safely continued. Push both levers toward the front of the unit. Levers when pushed fully forward will remain in cocked position and do not need to be held. The packer panel will move automatically through the last two stages of the cycle and stop automatically at starting point of the first stage (travel position).

**NOTE: PACKER PANEL CAN BE STOPPED AT ANY TIME BY MANUALLY RETURNING LEVERS TO "STOP" POSITION.**

#### UNLOADING:

##### WHEN READY TO UNLOAD:

When the body is fully loaded (or your route is completed), drive the unit to the dumping site making sure beforehand that the P.T.O. is completely disengaged.

The body is determined to be full when the ejector panel is at the front end of the body and the packer panel will not complete its cycle. Do not load any more material into the unit as it should be unloaded when this degree of loaded volume is reached.

Before driving to the dumping site, cycle the packer panel manually, to close off the hopper opening, so that trash will not be strewn along your route.

##### AT UNLOADING SITE:

Engage the P.T.O. and fully retract the ejector panel, if possible, to relieve some of the pressure of the load against the tailgate. Also, since it makes no difference as to the position of the packer panel while raising the tailgate, the packer panel can be backed off a few inches to help relieve the pressure of the load against the tailgate latches.

On a partially loaded body, this is not as important, but whatever pressure is exerted against the tailgate by the load can usually be relieved by merely retracting the ejector panel a foot or so.

##### RAISING THE TAILGATE:

### **⚠ DANGER**

STAND CLEAR WHEN TAILGATE IS IN MOTION AND DURING UNLOADING CYCLE. DO NOT STAND UNDER OR CROSS UNDER A RAISED TAILGATE UNLESS IT IS PROPERLY PROPPED OR BLOCKED.

The controls for raising the tailgate and ejecting the load are located at the left front corner of the body. See Figure 2.

Before raising the tailgate the tailgate lock pins must be removed. (One each side) See Figure 4.

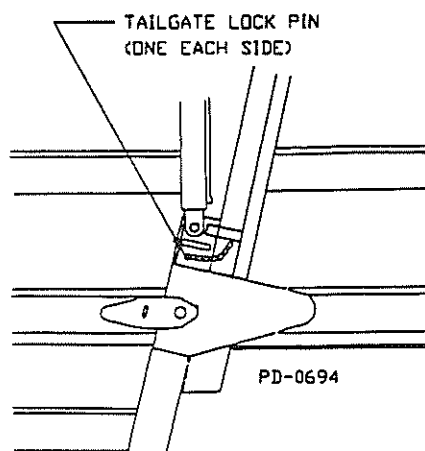


FIGURE 4

NOTICE: THIS UNIT IS WIRED SO THAT THE BACK-UP ALARM WILL SOUND AND A LABELED PILOT LITE WILL LITE WHEN THE UNIT IS PUT INTO REVERSE OR WHEN THE TAILGATE IS OPENED. SOUND AND LITE WILL CONTINUE UNTIL UNIT IS TAKEN OUT OF REVERSE AND/OR TAILGATE IS CLOSED. UNIT CANNOT BE DRIVEN SAFELY UNTIL SOUND HAS STOPPED AND LITE IS OFF

To raise the tailgate, engage the P.T.O. switch "ON" the throttle advance switch and pull the tailgate control lever away from the chassis. (To lower the tailgate, push in on this lever). When tailgate is fully raised, release the control lever. These levers are spring loaded to neutral and will return to neutral when you release them. Neutral position for the tailgate opening valve is a "STOP" position.

#### EJECTING THE LOAD:

**⚠WARNING KEEP ACCESS DOORS CLOSED WHEN EJECTOR PANEL IS IN MOTION**

To eject the load, push in (towards chassis) on the ejector panel control lever (to retract the ejector panel, pull outward on this same lever). When ejecting a load, extend the ejector panel about 3 feet, then retract the panel to the front of the body. Next, extend the ejector panel about 6 feet and reverse it again - continuing this method until the load can be freely ejected from the body. Extend the ejector panel all the way so that the rear of the body is clear of all refuse. Switch the throttle advance switch to "OFF" position.

#### CLOSING THE TAILGATE:

Leave the ejector panel at the rear of the body and pull the truck ahead so that the pile of ejected refuse cannot be "gathered" between the closing tailgate and rear of the body. Lower the tailgate and continue holding lever until tailgate is completely down and securely latched. (Check locked indicators, Both Sides).

Reinstall the tailgate lock pins (One each side). See Figure 4.

#### BEFORE LEAVING THE UNLOADING SITE:

Retract the ejector panel to the front of the body. Driving at road speeds with the cylinder extended toward the rear of the body can cause excessive wear on the cylinder sleeves, sleeve packing, etc.

Disengage Power Take-Off before driving away.



- NOTES -

DATE

OPTIONAL CONTAINER DUMPER OPERATION  
(PL-0891)

**⚠ WARNING**

TO AVOID SERIOUS INJURY OR DEATH - USE ONLY WITH CONTAINERS THAT MEET WITH ANSI Z245.6 STANDARDS, SHOWN BELOW.

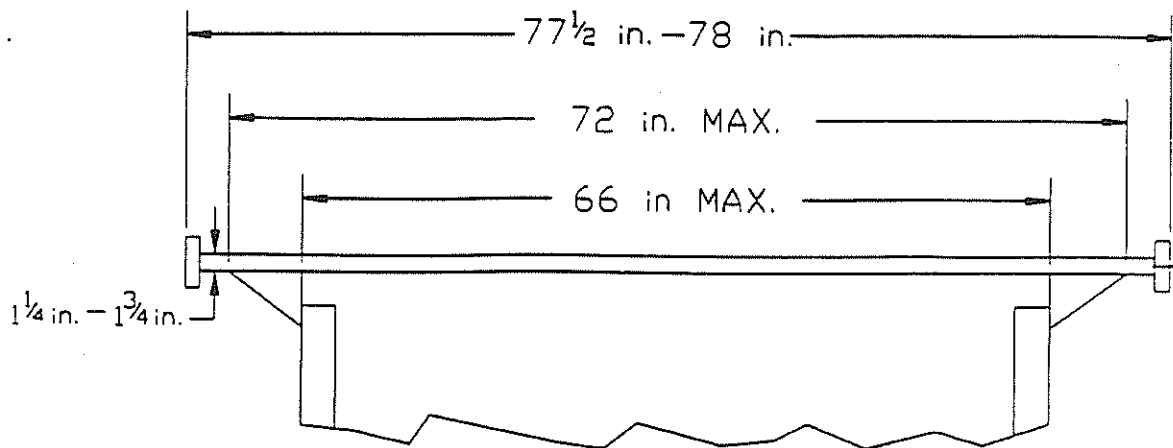


Figure 1

THIS COMPACTOR SHALL NOT BE USED WITH CONTAINERS THAT DO NOT MATCH THE ABOVE DRAWING.

**CONTAINER HOOK-UP: (1-3 YD. HYDRAULIC DUMPER & OVERHEAD WINCH OR REEVING CYLINDER DUMPER).**

Un-lock latch locks (both sides) and lower latch levers, Figure 2. Fasten container lids open. Align container trunnions into container guides and raise latch levers and latch with locks - Both Sides.

**⚠ WARNING**

KEEP CLEAR AT ALL TIMES WHEN CONTAINER IS OFF GROUND.

WHILE DUMPING - KEEP HANDS CLEAR OF CONTAINER GUIDES, CONTAINER AND DUMPING DEVICE.

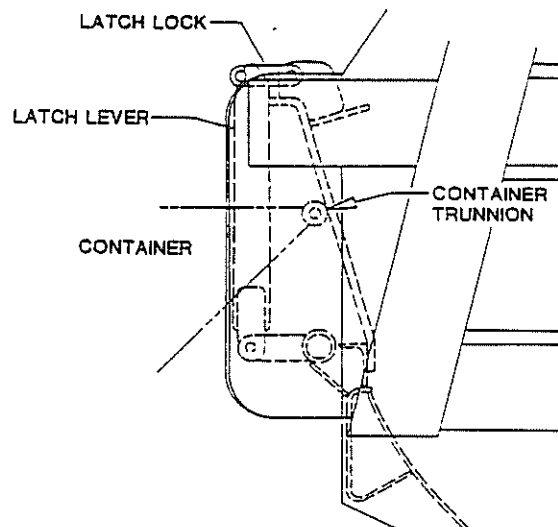


Figure 2

## CONTAINER DUMPING: (1 - 3 YD. HYDRAULIC DUMPER)

NOTE: If this hydraulic dumper is used with an overhead winch dumper or with a reeving cylinder dumper, be sure the selector valve control is pulled out for hydraulic dumper operation.

Push the dumper control lever (Figure 3) towards front of truck and if required - engage throttle advance. Hold lever until container's contents are dumped into the hopper.

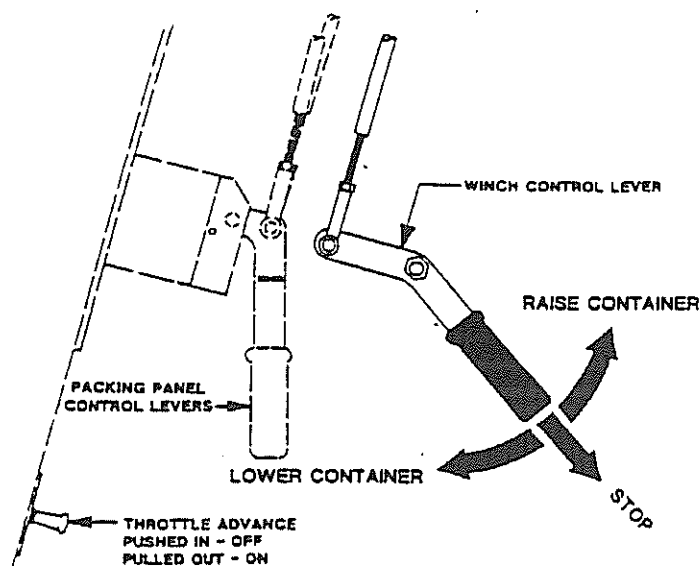


Figure 3

### ▲WARNING

DUMPER CROSS TUBE IS NOT A STEP. STAND CLEAR WHEN DUMPER CROSS TUBE IS IN MOTION.

To Lower Container; pull dumper control lever towards rear of truck and if required - engage throttle advance. Hold control lever until all four corners of the container are resting securely on hard, level surface.

NOTICE: DO TO VARIED LOCATIONS OF CONTAINER LIFTING POINTS - BE PREPARED TO STOP OPERATIONS - IF THE CONTAINER APPEARS TO BE PULLED TIGHTLY AGAINST THE CONTAINER STOP.

NOTE: HYDRAULIC DUMPER DEVICE / CONTAINER CAN BE STOPPED AT ANY TIME BY MANUALLY RETURNING DUMPER CONTROL LEVER TO 'STOP' POSITION (See Figure 3).

## CONTAINER RELEASE: (1 - 3 YD. HYDRAULIC DUMPER)

Open latch hooks and latch arms. Return container to its original position on hard, level surface. Close latch arms and latch hooks.

## CONTAINER DUMPING: (OVERHEAD WINCH OR REEVING CYLINDER DUMPER)

Note: If this overhead winch or reeving cylinder dumper is used with a hydraulic dumper, be sure the selector valve control is pushed in for overhead winch or reeving cylinder operation.

Secure cable hook to container lifting device. Push the dumper control lever (Figure 4) towards front of truck and if required - engage throttle advance. Hold lever until containers contents are dumped into the hopper.

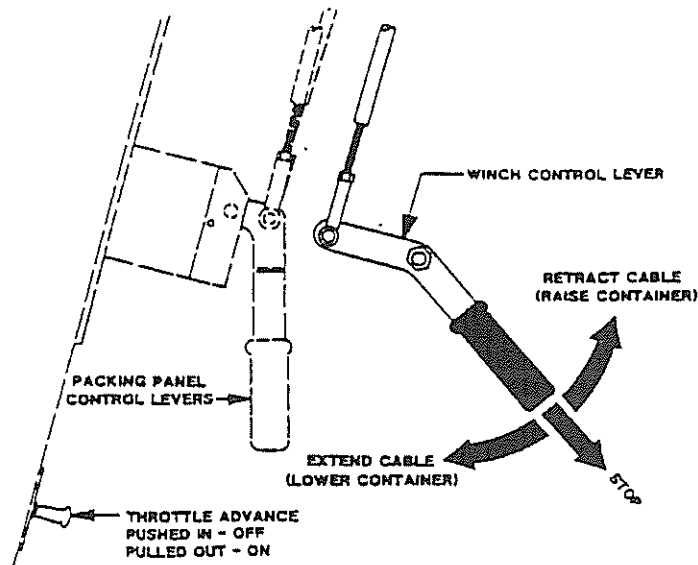


Figure 4

### **⚠ WARNING**

**WHILE DUMPING - KEEP HANDS CLEAR OF CONTAINER GUIDES, CONTAINER AND DUMPING DEVICE.**

To Lower Container; pull dumper control lever towards rear of truck and if required - engage throttle advance. Hold control lever until all four corners of the container are resting securely on hard, level surface.

NOTICE: DO TO VARIED LOCATIONS OF CONTAINER LIFTING POINTS - BE PREPARED TO STOP OPERATIONS - IF THE CONTAINER APPEARS TO BE PULLED TIGHTLY AGAINST THE CONTAINER STOP.

NOTE: DUMPER CABLE / CONTAINER CAN BE STOPPED AT ANY TIME BY MANUALLY RETURNING DUMPER CONTROL LEVER TO 'STOP' POSITION (See Figure 4).

## CONTAINER RELEASE: (OVERHEAD WINCH OR REEVING CYLINDER DUMPER)

Remove cable hook and stow on storage loop. When stowing hook, stop dumper cable before putting tension on the cable and storage loop. Open latch hooks and latch arms. Return container to its original position on hard, level surface. Close latch arms and latch hooks.

**MAINTENANCE**  
(PL-0974B)

**⚠ WARNING**

**READ AND UNDERSTAND THE CONTENTS OF THIS MANUAL BEFORE ATTEMPTING TO PERFORM ANY MAINTENANCE ON THIS REAR LOADER.**

**WEAR SAFETY EQUIPMENT WHEN WORKING UNDER CONDITIONS THAT REQUIRE THEM.**

**WHEN WORKING ON TAILGATE, EJECTOR PANEL, CYLINDERS, ETC., PROVIDE PROPER SUPPORTS AND SAFETY CHAINS TO PREVENT THESE COMPONENT PARTS FROM SLIPPING OR FALLING, WHICH COULD CAUSE DAMAGE TO THE UNIT OR INJURY TO THE PERSON(S) WORKING ON OR NEAR THE UNIT.**

**DO NOT ENTER BODY OR TAILGATE TO MAKE REPAIRS OR PERFORM INSPECTIONS OR MAINTENANCE UNTIL YOU HAVE:**

- (1) DISENGAGED POWER TAKE-OFF.**
- (2) TURNED “OFF” THROTTLE CONTROL.**
- (3) SET PACKING BRAKES.**
- (4) CHOCKED WHEELS.**
- (5) SHUT-OFF TRUCK ENGINE AND REMOVE IGNITION KEY.**
- (6) ATTACHED SIGN TO STEERING WHEEL ADVISING THAT UNIT IS BEING WORKED ON.**

**POWER TAKE-OFF:**

Check Power Take-Off controls periodically to make sure that it has not been kinked or otherwise damaged. The cable should be lubricated from time to time to insure freedom of movement. Check all bolts on the P.T.O. housing and control linkage to make sure these are tight. Check for any oil leaks around the gasket between P.T.O. and the transmission. Replace if leaking as leaking could result in expensive transmission damage.

**DRIVE LINE:**

Grease the drive line daily during heavy usage. Use a standard gun grease as used on other parts of the truck's chassis. The intervals of lubrication may be reduced or increased as usage merits. The best time to lubricate the drive line as well as the rest of the packer, is when the truck is being given its regular lube service.

## **WARNING**

**DO NOT WORK ON OR NEAR HYDRAULIC PUMP, P.T.O., DRIVESHAFT(S) UNIVERSAL JOINTS OR ANY ROTATING PARTS WHILE THE ENGINE IS RUNNING. STOP ENGINE AND REMOVE IGNITION KEY.**

Check drive line mounting bolts on the pump and brackets as well as the center bearing hanger, universal joints, etc. check set screws and wires on the joints to make sure that these are not working loose. The slip joint shall also be adequately lubricated and free from abrasive mater.

### PUMP:

This rear loader's hydraulic system is designed to operate with a maximum oil flow of 27 gallons per minute, which is delivered at a pump speed of 1200 R.P.M.

Properly installed and operated, the hydraulic pump will give years of service with very little, if any, maintenance or service repair required. There are a number of precautions which should be observed to obtain the long life possible through proper care.

- (1) Universal joints should be snug on the shaft and properly locked to prevent vibration.
- (2) Power Take-Off should be disengaged so that pump will not be operated when truck is being driven.
- (3) Whenever servicing the hydraulic system, prevent dirt fro getting into the system.
- (4) Be careful not to operate the pump with oil supply shut-off or insufficient oil in tank to maintain supply to the pump.

### PROPER OPERATING SPEED:

Slow pump speed will unnecessarily add time and expense to operation, but rarely cause damage as long as engine is not caused to 'lug'. Excessive pump speed, even for a very short time, may result in costly damage to many parts of the hydraulic system.

Pump failure can be caused by starvation of oil. Heat from friction expands pump gears, cutting metal off thrust plates and housing - or may seize, breaking shaft of drive line - especially with new pumps.

Pump speeds in excess of 1200 R.P.M will provide best results and assure maximum service with minimum maintenance expense.

### OIL TANK GATE VALVE:

A shut-off valve is located below oil supply tank for use if it becomes necessary to service any part of the oil system. Oil removed in any servicing operation should be filtered before it is returned to the oil tank. Always check this gate valve after servicing to make sure it is open before operating the unit.

## OIL SUPPLY TANK:

The oil tank is the storage place of the life blood of the hydraulic system. Careful maintenance and inspection at this point will materially increase the longevity of the unit and keep repairs to a minimum.

The tank for the hydraulic oil supply is located at the curbside front of the body (Figure M-1). Check oil supply daily, making sure oil level is at the top of the oil sight tube. When checking have the unit setting level,

all cylinders in their retracted position and the P.T.O. out of gear.

We recommend that after the first 6 months of operation, the oil be drained and replaced. An annual oil change thereafter will suffice in normal operations.

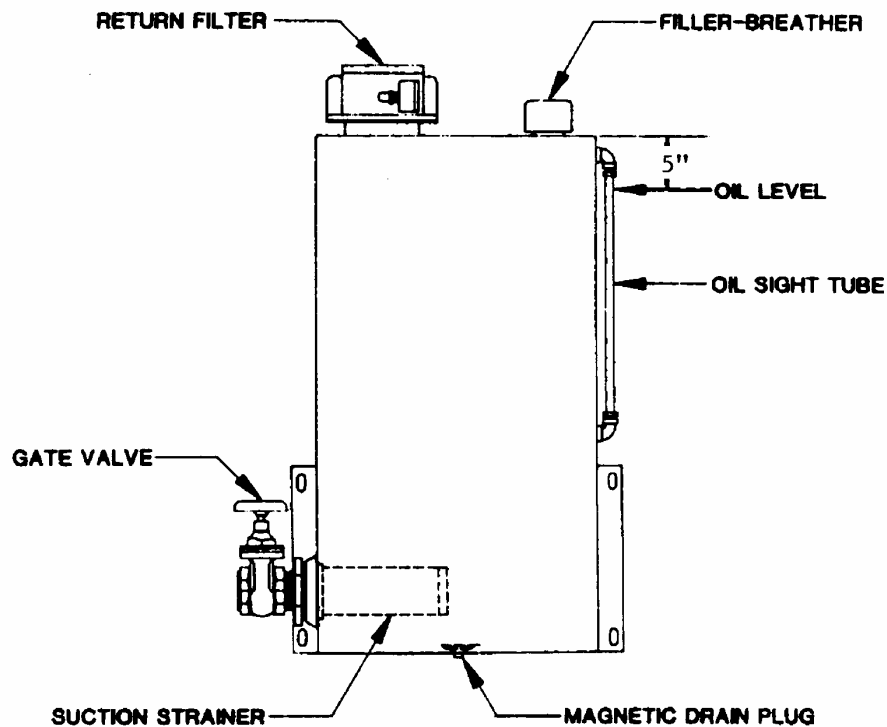


FIGURE 5

When replacing or adding oil to the system, be sure it is suitable for this operation. See Oil Specifications on following page.

FILLER-BREATHER CAP:

Located on top of the oil tank (See Figure 5) is a filler-breather cap. This cap is for ease of replacing or adding oil and allows the free exchange of filtered air to and from the tank, as the level of oil fluctuates. It is important that this cap be kept in place and kept clean. Before removing this cap make sure that this area is clean, as any foreign materials allowed into the oil supply can cause expensive down time and repairs.

OIL SPECIFICATIONS:

CODE 1657 RANDO OIL HD 32

Typical Characteristics:

Appearance - - - - -	Pale
Gravity, API - - - - -	30.7
Flash, COC, F - - - - -	385
Pour Pt., F - - - - -	-25
Viscosity, at 40 deg. C - - - - -	30.1
at 100 deg. C - - - - -	5.3
at 100 deg. F - - - - -	155
at 210 deg. F - - - - -	44
Viscosity Index - - - - -	106
Neutralization No. - - - - -	0.4

Rando Oils HD are light-colored, premium, anti-wear hydraulic oils blended from high quality paraffin distillate stocks with excellent stability. They are rust and oxidation inhibited and contain a specially selected antifoamant which permits very rapid release of entrained air. This latter point is important since entrained air will cause system sponginess, thus affecting the rapidity and accuracy of system response. They also contain a very effective zinc-type antiwear agent that helps minimize wear in high-speed, high-pressure vane and gear pumps while meeting the lubrication requirements of axial piston pumps having bronze-on-steel metallurgy.



### OIL FILTER:

If equipped, check the oil filter(s) gauge(s) daily. To check, have the unit operating with oil at normal operating temperature and with throttle advance activated. By checking and cleaning when gauge(s) indicate, you not only enable the system to operate most efficiently, but also eliminate the possibility of foreign particles causing costly damage to the hydraulic components.

### CYLINDERS:

There are seven cylinders on this series Rear Loader. Cylinder pivot pins should be checked on a regular basis for tightness and wear. Pivot pins should also be greased on a regular basis according to lubrication chart, using a good chassis lubricant.

A thin film of oil on the piston rod or sleeve as they extend is desirable, but a cylinder showing a steady drip of oil indicates need of service.

It is recommended that field service repairs to the cylinder be limited to adjusting and replacing of packing and minor sleeve maintenance. If other damage is apparent contact your E-Z Pack Distributor.

The piston rods and sleeves should be inspected occasionally for scratches and nicks which can cause considerable damage to packing gland nut, wiper ring, bearings and packing assembly. Any marks such as these should be smoothed out to prevent further damage to the cylinder.

When new telescopic cylinder packing is installed it may leak because it has not yet seal-set. To adjust packing, remove set screw and nylon insert on leaking stage packing gland nut and back-off nut approximately a 1/4 of a turn. Operate cylinder a couple of times to seal-set the packing. Tighten packing gland nut down snugly and reinstall nylon insert and set screw.

### EJECTOR PANEL:

The ejector panel rides on steel guides in full length tracks on each side of the body. It is important that these tracks be kept clean and well lubricated.

Check the full length of these tracks daily, removing any accumulation of trash and apply by brush, a good chassis lube (Standard Oil 'Gearep OG' or equal) to the full length of these tracks.

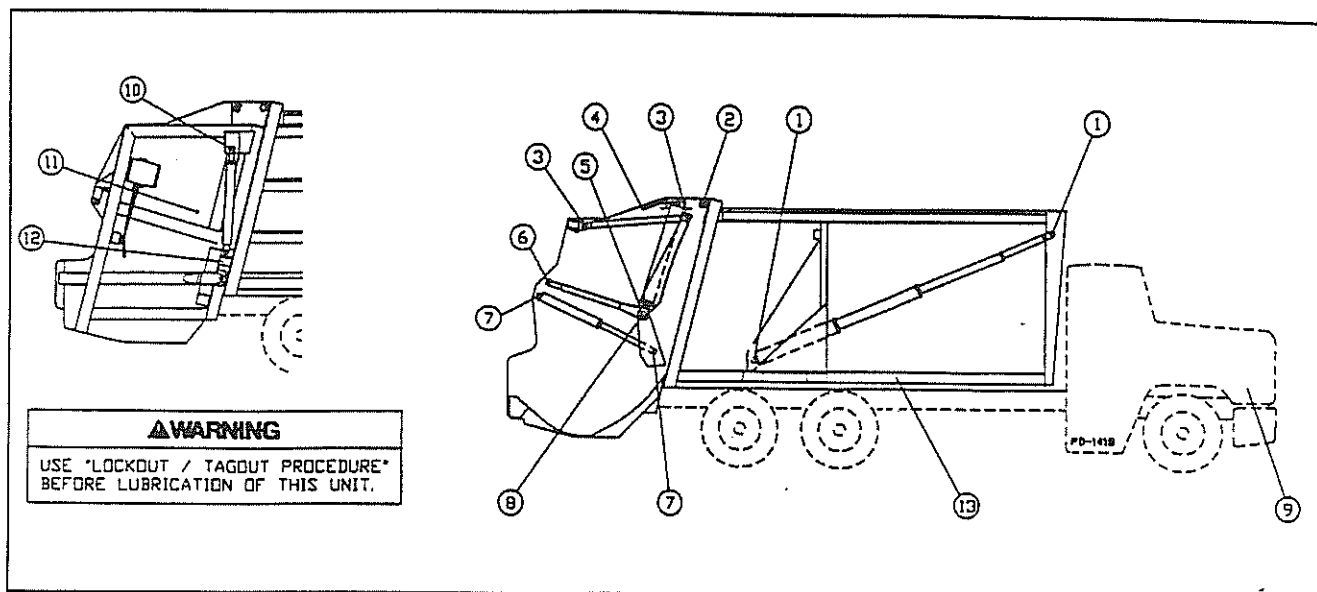
### MONTHLY INSPECTION:

In addition to above maintenance, a regular schedule of service checks should be made. All mounting bolts and brackets should be inspected. Pump hanger and bracket bolts, set screws in drive line, cotter pins and hinge pins should be inspected. Electrical connections and switch mountings in control boxes should be checked at least once a month, wire connections at terminal blocks and in the control box should also be checked. Wiring for clearance, marker lights, tail and stop lights, and turn signals should be inspected for loose connections and bare wires.

### LUBRICATION:

All lubrication points for this rear loader and the recommended lubrication schedule can be found on the following page

# LUBRICATION CHART



LUBRICATION POINT	LUBRICATION POINT DESCRIPTION AND NUMBER OF LUBRICATION POINTS	LUBRICATION FREQUENCY
1	EJECTION CYLINDER PIVOTS (2 = 1 EACH END)	WEEKLY
2	TAILGATE HINGE PIVOTS (2 = 1 EACH SIDE)	WEEKLY
3	FALL BACK SHIELD TOP PIVOTS (2 = 1 EACH SIDE)	DAILY
4	PACKING CYLINDER (BASE END) PIVOTS (2 = 1 EACH SIDE)	DAILY
5	PACKING CYLINDER (ROD END) PIVOTS (2 = 1 EACH SIDE)	DAILY
6	STIFF ARM PIVOTS (2 = 1 EACH SIDE)	DAILY
7	SWEEP CYLINDER PIVOTS (4 = 1 EACH END - BOTH CYLINDERS)	DAILY
8	FALL BACK SHIELD BOTTOM PIVOTS (2 = 1 EACH SIDE)	DAILY
9	FRONT DRIVE OR P.T.O. DRIVE LINE (AS REQUIRED)	DAILY
10	TAILGATE CYLINDER (ROD END) (2 = 1 EACH SIDE)	DAILY
11	FALL BACK SHIELD SUPPORT SURFACE (2 = 1 EACH SIDE)	DAILY
12	APPLY A GOOD CHASSIS LUBE (STANDARD OIL "GEAREP OG" OR EQUAL) TO WEAR SURFACES OF TAILGATE LATCHES (BOTH SIDES). . . . .	DAILY
13	THE EJECTOR PANEL RIDES ON STEEL GUIDES IN FULL LENGTH TRACKS ON BOTH SIDES OF THE BODY. IT IS IMPORTANT THAT THESE TRACKS BE KEPT CLEAN AND WELL LUBRICATED. CHECK THE FULL LENGTH OF THESE TRACKS (BOTH SIDES) DAILY, REMOVING ANY ACCUMULATION OF TRASH AND APPLY BY BRUSH, A GOOD CHASSIS LUBE (STANDARD OIL "GEAREP OG" OR EQUAL) TO THE FULL LENGTH OF THESE TRACKS. . . . .	DAILY
APPLY OIL TO ALL LINKAGE AND FRICTION POINTS AS REQUIRED.		

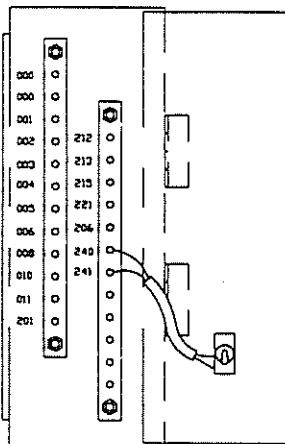
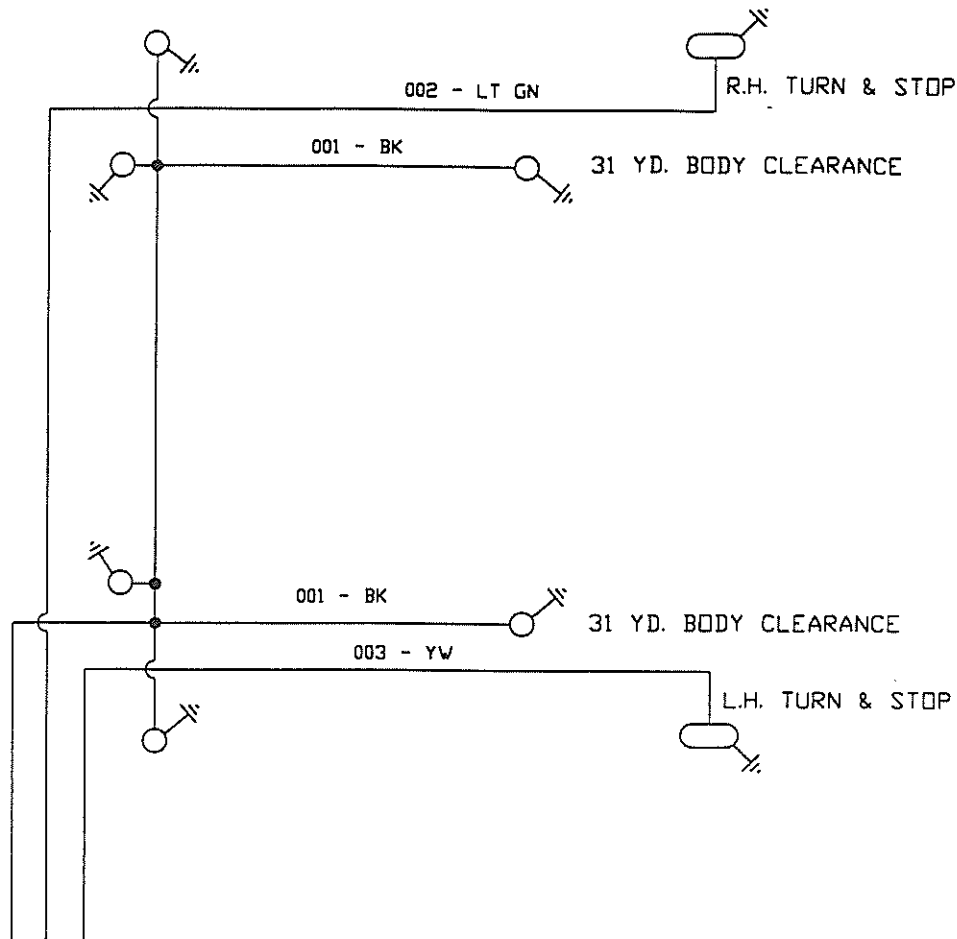
NOTE: A) CHECK OIL SUPPLY DAILY, MAKING SURE OIL LEVEL IS AT MID-WAY POINT ON THE OIL SIGHT GAUGE. (SEE OWNER'S MANUAL). WHEN CHECKING HAVE THE UNIT SETTING LEVEL AND OIL AT A NORMAL OPERATING TEMPERATURE WITH ALL CYLINDERS IN THE RETRACT POSITION AND WITH THE PUMP NOT RUNNING.

NOTE: B) CHECK THE OIL FILTER GAUGE(S) DAILY. TO CHECK, HAVE THE UNIT OPERATING WITH OIL AT NORMAL OPERATING TEMPERATURE AND WITH THROTTLE ADVANCE ACTIVATED. SERVICE FILTER(S) AS GAUGE(S) INDICATE.

NOTE: C) SEE OWNER'S MANUAL FOR OTHER IMPORTANT MAINTENANCE INSTRUCTIONS.

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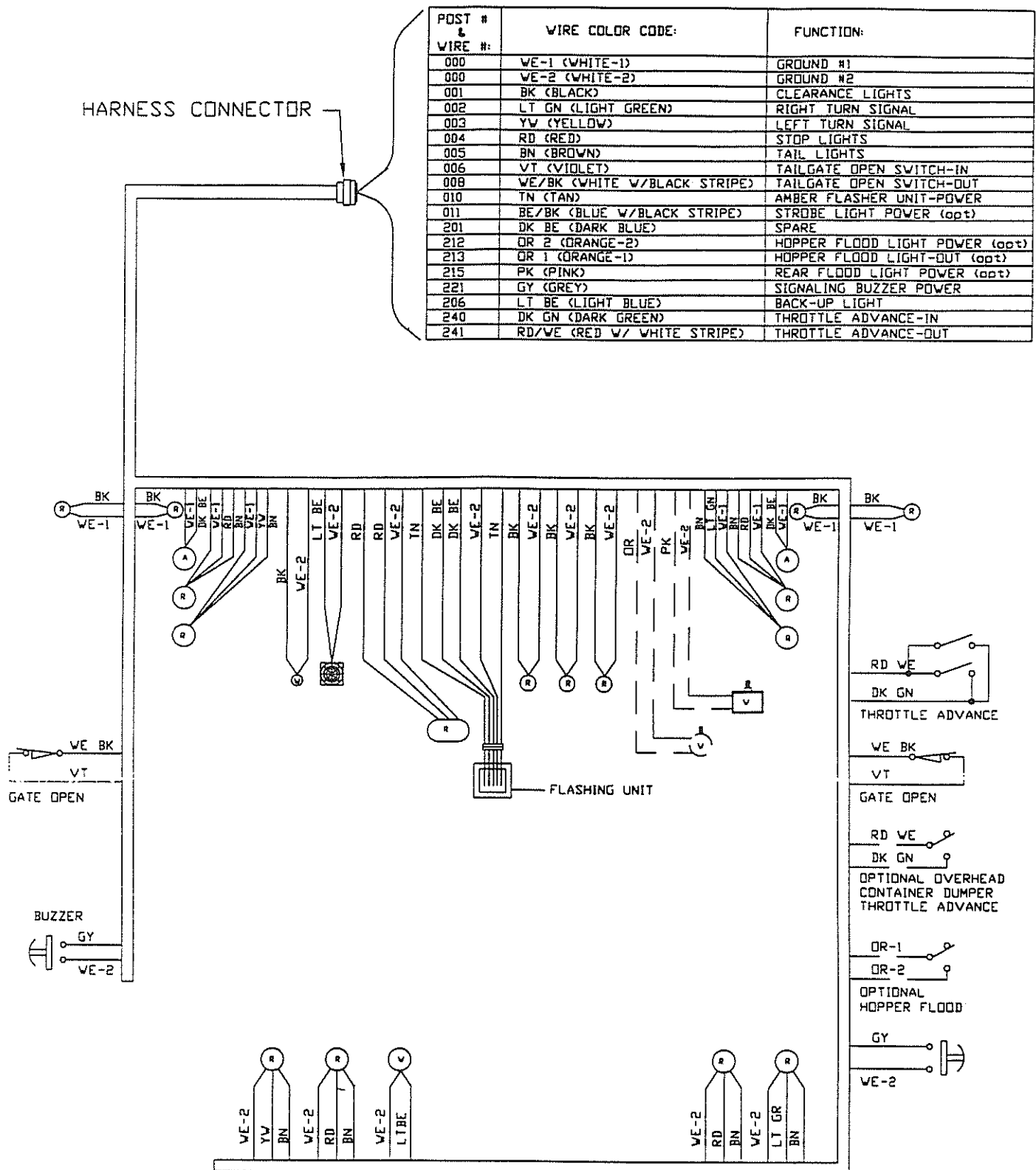
BODY WIRING



POST # & WIRE #:	WIRE COLOR CODE:	FUNCTION:
000	WE-1 (WHITE-1)	GROUND #1
000	WE-2 (WHITE-2)	GROUND #2
001	BK (BLACK)	CLEARANCE LIGHTS
002	LT GN (LIGHT GREEN)	RIGHT TURN SIGNAL
003	YW (YELLOW)	LEFT TURN SIGNAL
004	RD (RED)	STOP LIGHTS
005	BN (BROWN)	TAIL LIGHTS
006	VT (VIOLET)	TAILGATE OPEN SWITCH-IN
008	WE/BK (WHITE W/BLACK STRIPE)	TAILGATE OPEN SWITCH-OUT
010	TN (TAN)	AMBER FLASHER UNIT-POWER
011	BE/BK (BLUE W/BLACK STRIPE)	STROBE LIGHT POWER (opt)
201	DK BE (DARK BLUE)	SPARE
212	OR 2 (ORANGE-2)	HOPPER FLOOD LIGHT POWER (opt)
213	OR 1 (ORANGE-1)	HOPPER FLOOD LIGHT-OUT (opt)
215	PK (PINK)	REAR FLOOD LIGHT POWER (opt)
221	GY (GREY)	SIGNALING BUZZER POWER
206	LT BE (LIGHT BLUE)	BACK-UP LIGHT
240	DK GN (DARK GREEN)	THROTTLE ADVANCE-IN
241	RD/WE (RED W/ WHITE STRIPE)	THROTTLE ADVANCE-OUT

PD-1447

# TAILGATE WIRING



PD-0734-B

## A300 PRESSURE SETTING PROCEDURES

(PL-0153-D = Page 1 of 2)

- 1) Check to be sure unit is running at the proper engine R.P.M. to obtain correct pump flow (27 G.P.M. @ 1200 R.P.M. pump speed).
- 2) Install a 0-3000 P.S.I. fluid filled pressure gauge in the pump line at the front control valve, located on streetside on top of hydraulic tank. (Figure PS1 - Item 1).
- 3) Lower main relief valve setting (Figure PS1 - Item 2) to 800 P.S.I. Do this by holding the ejector in full retract with throttle advance on.
- 4) Fully extend the sweep cylinders and leave the valve locked in the detent position.

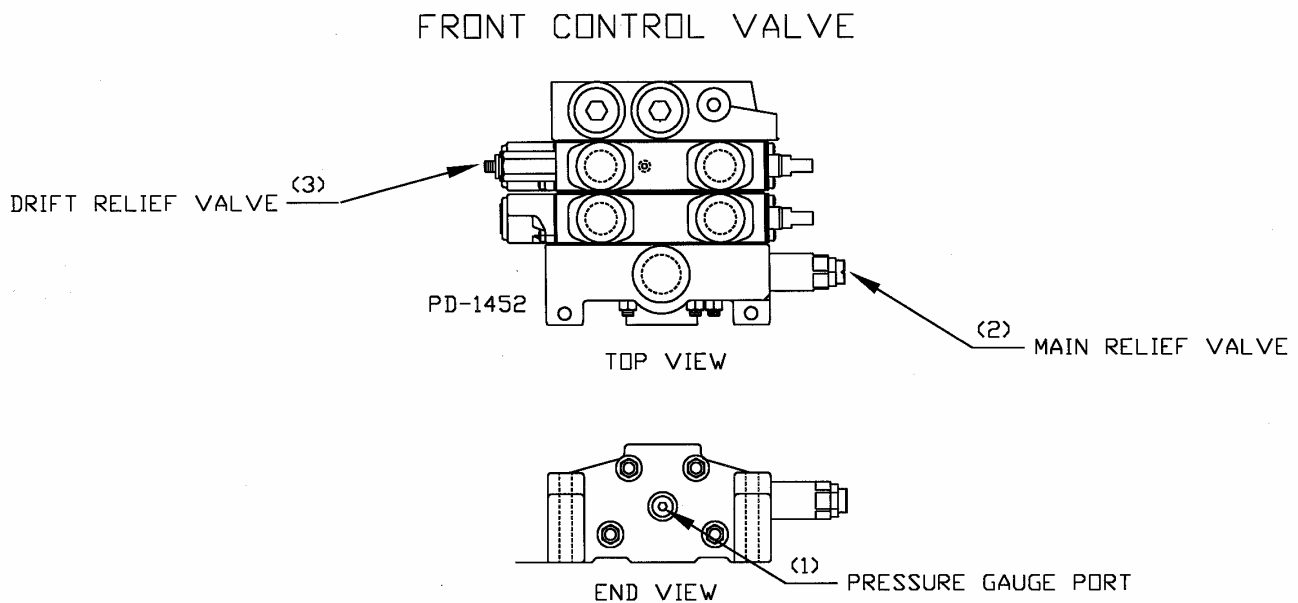


FIGURE PS1

- 5) Raise the main relief valve setting to 1500 P.S.I. This is what the valve in the detent position should release at.
- 6) If it does not release, leave the main relief @ 1500 P.S.I., then turning slowly, back out the adjustment screw located through the end of the valve spool cover (Figure PS2 - Item 4) for the sweep cylinders, until the detent releases.
- 7) If it releases before reaching 1500 P.S.I. at the main relief valve, turn the adjustment screw in and repeat steps 3, 4 and 5.

A300 PRESSURE SETTING PROCEDURES  
(PL-0153-D = Page 2 of 2)

- 8) With the main relief @ 1500 P.S.I. fully extend the packing cylinders leaving the valve locked in the detent position.
- 9) Raise the main relief valve setting to 2300 P.S.I. This is what the valve in the detent position should release at.
- 10) If it does not release, leave the main relief @ 2300 P.S.I., then turning slowly, back out the adjustment screw located through the end of the valve spool cover (Figure PS2 - Item 5) for the packing cylinders, until the detent releases.

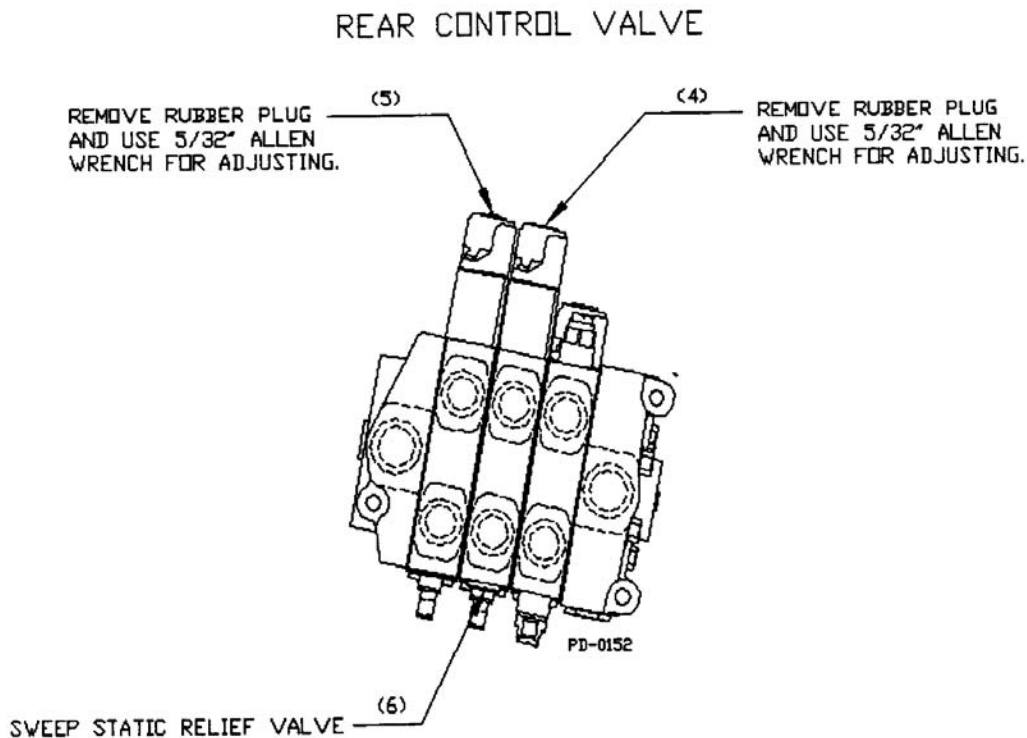
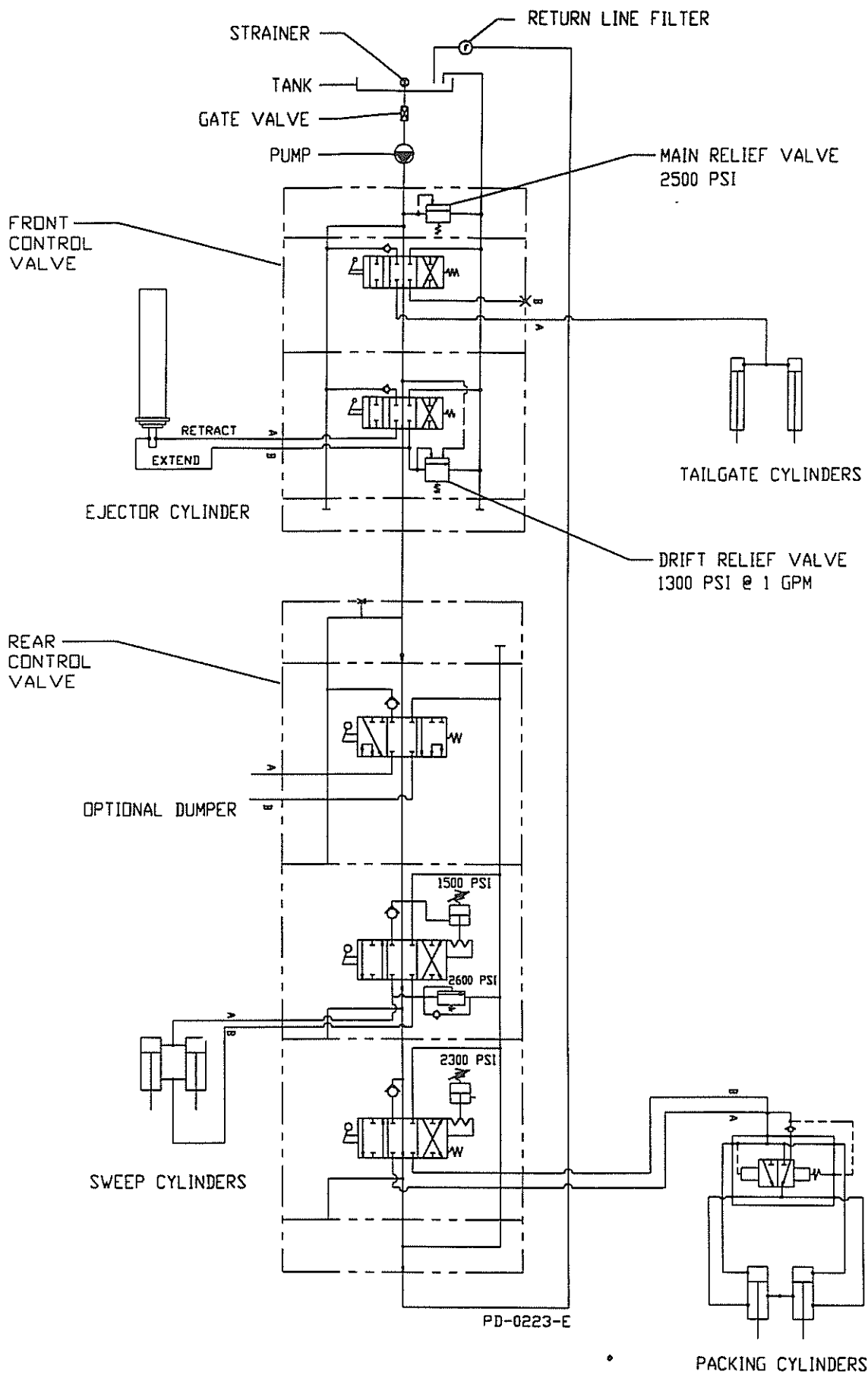


FIGURE PS2

- 11) If it releases before reaching 2300 P.S.I. at the main relief valve, turn the adjustment screw in and repeat steps 8, 9 and 10.
- 12) The main relief valve may now be set @ 2500 P.S.I. by holding in retract the ejector cylinder with the throttle advance on. (Figure PS2 -Item 2).
- 13) DO NOT TRY TO ADJUST THE SWEEP STATIC RELIEF VALVE OR DRIFT RELIEF VALVE UNLESS AUTHORIZED BY THE FACTORY.

# A300 HYDRAULIC SCHEMATIC (W/COMMERCIAL VALVES)





**- NOTES -**

DATE \_\_\_\_\_

This image shows a single sheet of white paper with horizontal black ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

**THIS REAR LOADER WAS DESIGNED AND BUILT UNDER RIGID SPECIFICATIONS. TO MAINTAIN THESE SPECIFICATIONS WE RECOMMEND THAT WHEN REPLACING PARTS ON THIS UNIT ALWAYS USE GENUINE CLEAN EARTH E-Z PACK REPLACEMENT PARTS PURCHASED FROM YOUR CLEAN EARTH E-Z PACK DISTRIBUTOR.**

**NOTE:**

**ALL ILLUSTRATIONS SHOWN IN THIS MANUAL ARE ARTIST RENDITIONS AND ARE NOT TO BE CONSTRUED AS SCALE OR ACTUAL DRAWINGS. CONSULT OUR LITERATURE OR ENGINEERING DEPARTMENT FOR ALL SPECIFICATIONS.**

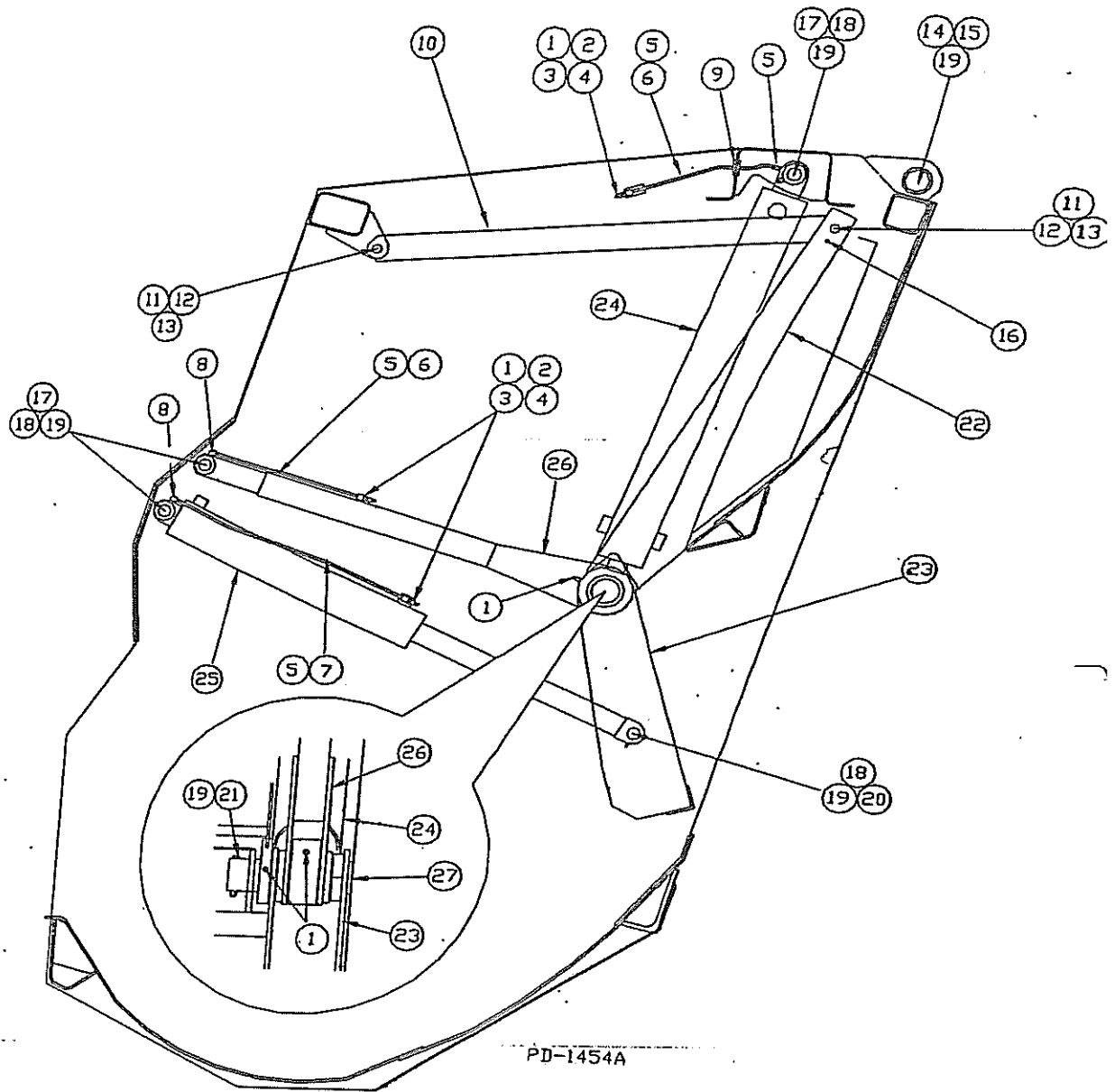
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(PL-0254E)**

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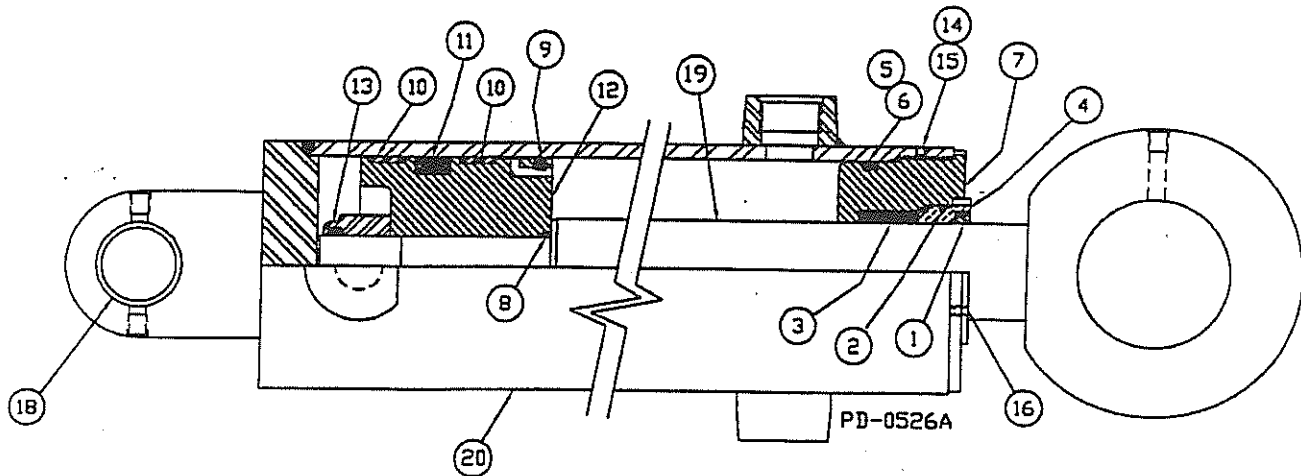
**TAILGATE COMPONENT PARTS**  
(2110914 G300) (2110915 A300)



**TAILGATE COMPONENT PARTS**  
( 2110915 A300 )

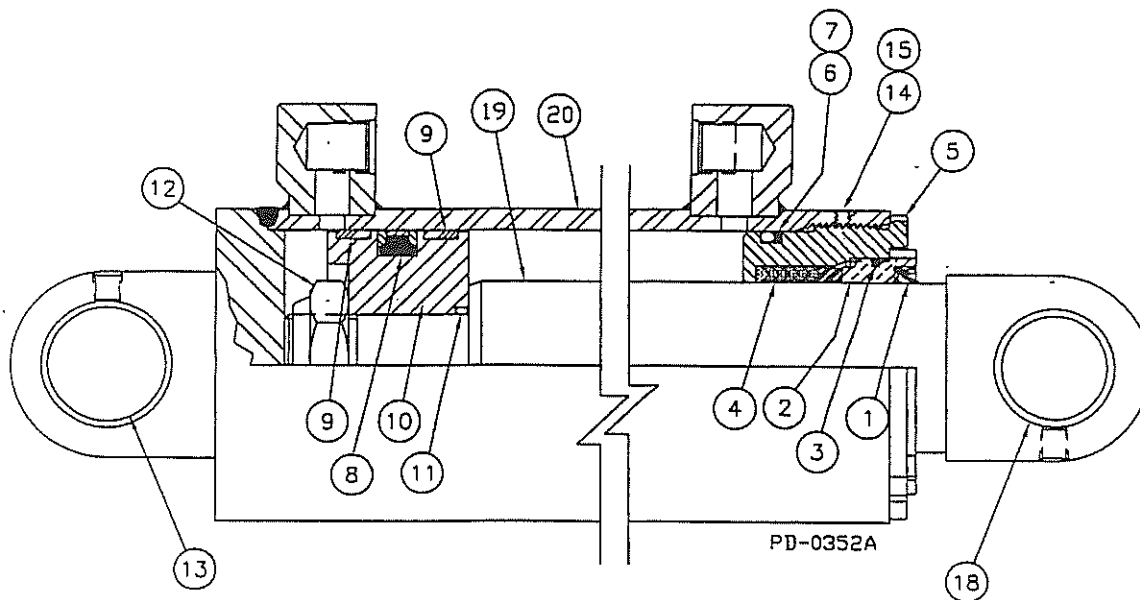
ITEM	PART NO.	DESCRIPTION	(PL-1454B)	QTY.
1.	G07004000	Lube Fitting		10
2.	1061740000	Bracket		6
3.	G08012000	Coupling		6
4.	1017117011	Swivel Adapter		6
5.	1066216008	Push In Male Connector		6
6.	1001026	Nylon Tube x 18" Lg.		4
7.	1001026	Nylon Tube x 32" Lg.		2
8.	1066217004	Push In Ell		4
9.	2043040000	Grommet		2
10.	1063120000	Radius Arm		2
11.	1063576000	Pivot Pin		4
12.	G39775000	Flat Washer		8
13.	G06212000	Cotter Pin		8
14.	1064591000	Tailgate Hinge Pin		2
15.	G18241000	Cap Screw		2
16.	G07022000	Lube Fitting		2
17.	2109477	Pivot Pin		6
18.	G18239000	Cap Screw		8
19.	G09235000	Stop Nut		10
20.	2102999	Pivot Pin		2
21.	G18243000	Cap Screw		2
22.	2046024000	Fall Back Shield Assembly		1
23.	2102966	Packing Blade Assembly		1
24.	2101648	Packing Cylinder Assembly (Model K4538-RDA)		2
	2114653	Packing Cylinder Assembly (Model C4538-GDA)		2
25.	2101883	Sweep Cylinder Assembly (Model K4025-FDA)		2
	2114634	Sweep Cylinder Assembly (Model C4025-MDA)		2
26.	2052170000	Stiff Arm Assembly		2
27.	1063241000	Pivot Pin		2

# CYLINDER ASSEMBLY (MODEL K4538-FDA)



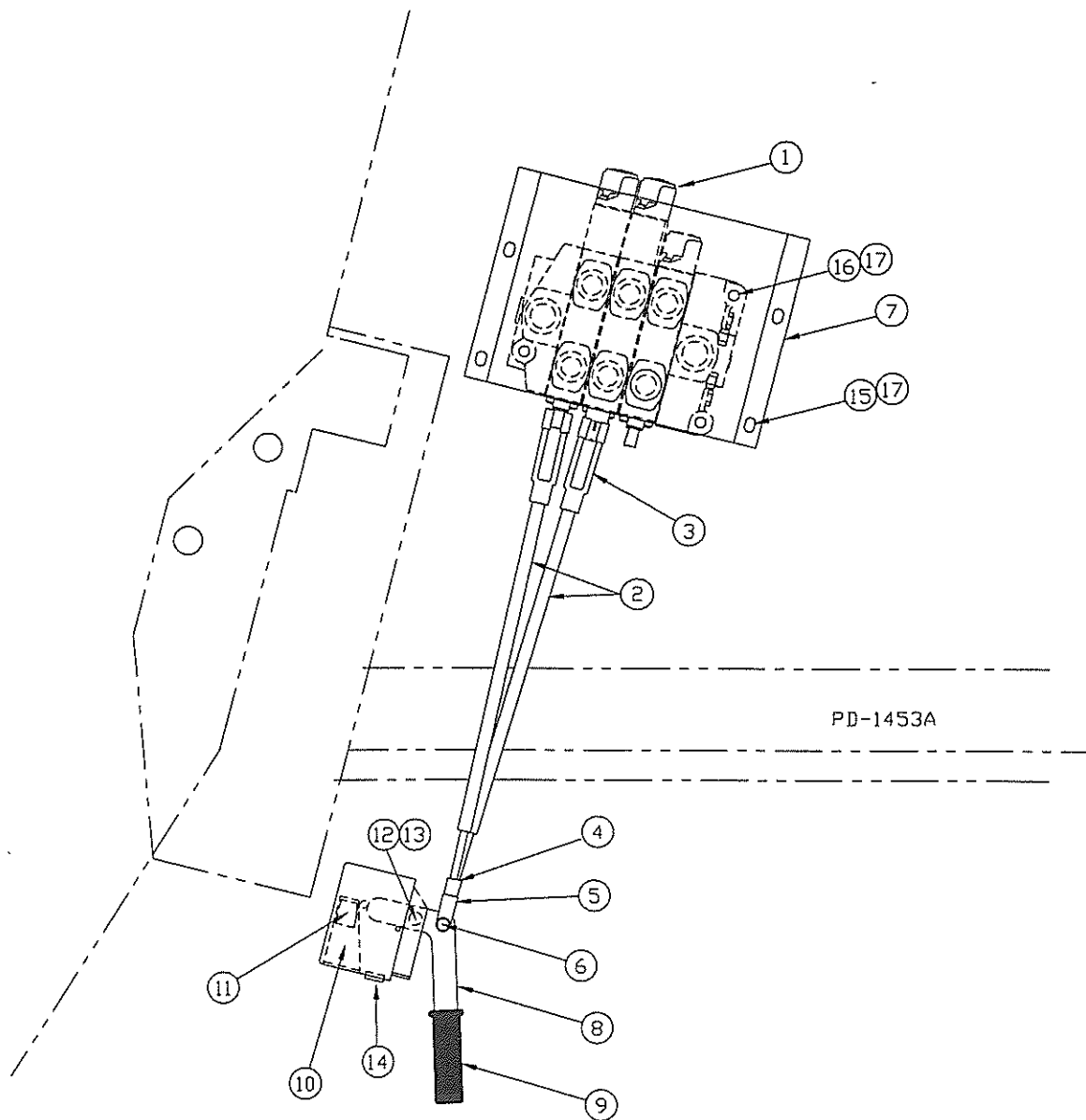
ITEM	PART NO.	DESCRIPTION	(PL-0526A)	QTY.
	2101648	Cylinder Assembly Complete (Model K4538-FDA)		1
1	*2101274	Rod Wiper		1
2	*2101290	Nylon Plug		1
3	*2103546	Packing Assembly		1
4	2103545	Packing Nut		1
5	*2101294	Back-Up Ring		1
6	*2101309	O-Ring Seal		1
7	2103544	Stuffing Box		1
8	*2101305	O-Ring Seal		1
9	*2101281	Piston Ring		1
10	*2103543	Piston Ring		2
11	*2101263	T-Seal		1
12	2103542	Piston		1
13	2101211	Lock Nut, Elastic		1
14	*2101284	Nylon Ball		1
15	*2101286	Set Screw		1
16	2102770	Set Screw		2
18	2101250	Bushing		2
19	2103541	Plunger Assembly		1
20	2103540	Casing Assembly		1
	*2102078	Seal Kit		1

# CYLINDER ASSEMBLY (MODEL K4025-FDA)



ITEM	PART NO.	DESCRIPTION	(PL-0352B)	QTY.
	2101883	Cylinder Assembly - Complete (Model K4025-FDA)		1
1	*2102772	Wiper Seal		1
2	2102766	Packing Nut		1
3	*2101290	Nyloc		1
4	*2102769	Packing Assembly		1
5	2102764	Stuffing Box		1
6	*2101293	Back-Up Ring		1
7	*2101311	O-Ring		1
8	*2101264	Piston Seal		1
9	*2101299	Piston Bearing		2
10	2102763	Piston		1
11	*2101306	O-Ring		1
12	2102771	Lock Nut		1
13	2102767	Bushing		1
14	*2101284	Nylon Ball		1
15	2101286	Set Screw		1
17	2102770	Set Screw		2
18	2102768	Bushing		1
19	2102765	Plunger Assembly		1
20	2102762	Casing Assembly		1
	*2102760	Seal Kit		1

## PACKING CONTROLS AND LINKAGE

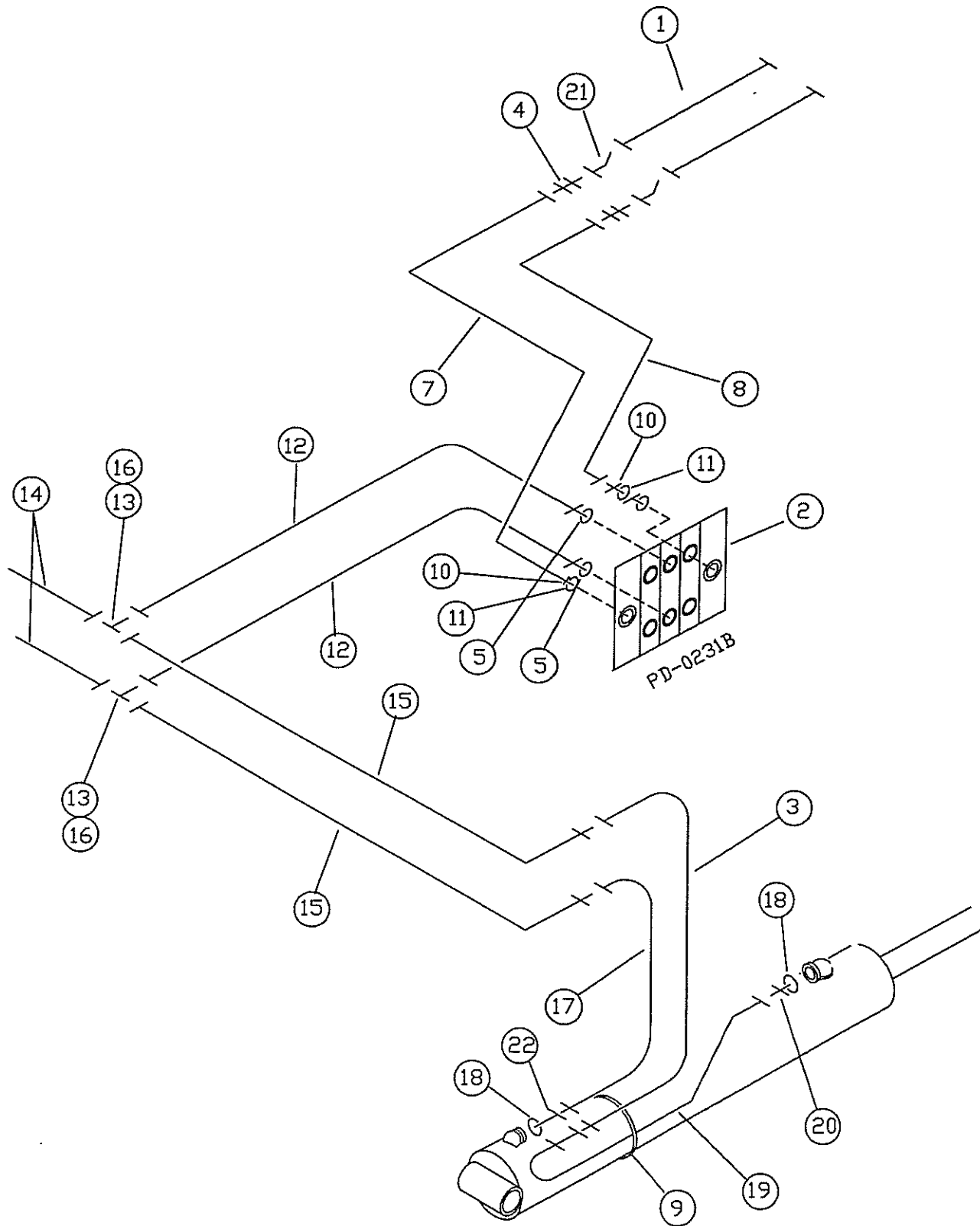




## PACKING CONTROLS AND LINKAGE

ITEM	PART NO.	DESCRIPTION	(PL-1453A)	QTY.
1	2052290000	Control Valve Assembly		1
2	2101095	Control Rod Assembly ( Includes Items 3,4,5 & 6 )		2
3	1017468000	Yoke		2
	1017730000	Yoke Pin		2
	G06107000	Cotter Pin		2
4	G09127000	Hex Nut		2
5	1017546	Yoke		2
6	1017545000	Yoke Pin		2
	G06055000	Cotter Pin		2
7	2101093	Control Valve Bracket		1
8	2044348000	Handle Weldment		2
	1047254000	Nyliner Bearing		4
9	1010089000	Black Handle Grip		2
10	1064802000	Switch Mounting Bracket		2
	G23331000	Machine Screw		4
	G08935000	Lock Nut		4
	G39225000	Flat Washer		4
11	2048002000	Throttle Switch Assembly		2
	G23110000	Machine Screw		4
	G08736000	Stop Nut		4
12	G18145000	Cap Screw		1
13	G09135000	Stop Nut		1
14	1019166000	Grommet		1
15	2110132	Cap Screw		4
16	2110145	Cap Screw		3
17	2110070	Lock Nut		7

# TAILGATE HYDRAULICS (PRESSURE, RETURN AND SWEEP CYLINDER LINES)

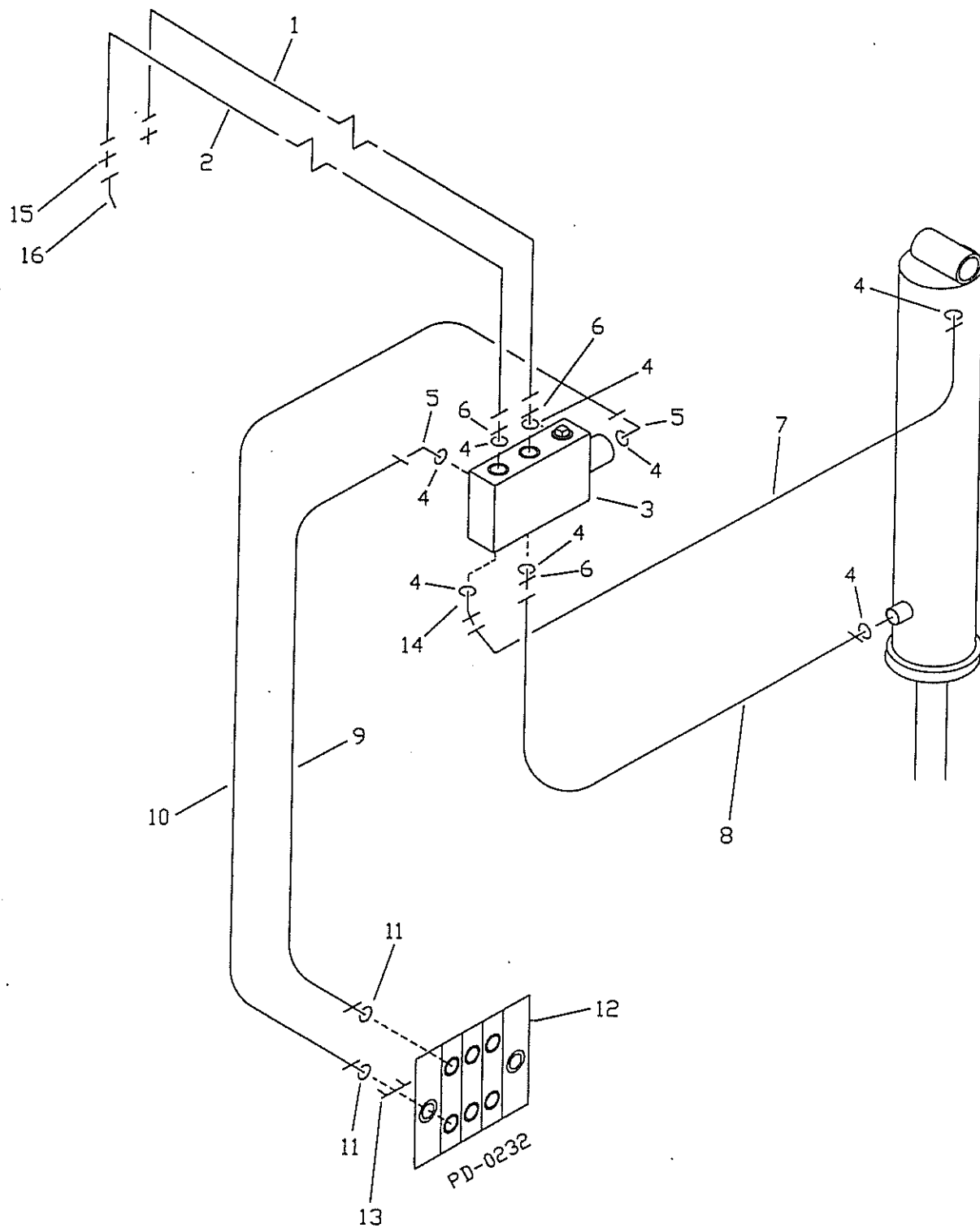


TAILGATE HYDRAULICS  
(PRESSURE, RETURN AND SWEEP CYLINDER LINES)

ITEM	PART NO.	DESCRIPTION	(PL-0231B)	QTY.
1	2114451	Oil Hose Assembly		2
2	2052290000	Rear Control Valve Assembly		1
3	2114629	Oil Hose Assembly		2
4	2042914000	Bulkhead Union		2
5	5505352000	SAE "O" Ring		2
7	2101477	Valve Pressure Tube Assembly		1
8	2101478	Valve Return Tube Assembly		1
9	1046973000	Ty-Rap		2
10	2101173	Str. Thd. Connector (Includes "O" Ring)		2
11	5505354000	SAE "O" Ring		2
12	2114738	Oil Hose Assembly		2
13	1031819000	Union Tee		2
14	2101936	Sweep Cylinder Tube (Streetside)		2
15	2101937	Sweep Cylinder Tube (Curbside)		2
16	1019973000	Tube End Reducer		4
17	2114631	Oil Hose Assembly		2
18	5505350000	SAE "O" Ring		4
19	2101516	Sweep Cylinder Tube Assembly		2
20	1062338016	Str. Thd. Connector (Includes 'O' Ring)		2
21	2101643	Swival Nut Elbow – 45 Degrees		2
22	2028814000	Reducer Expander		2

# TAILGATE HYDRAULICS

## (REGENERATION VALVE AND PACKING CYLINDER LINES)



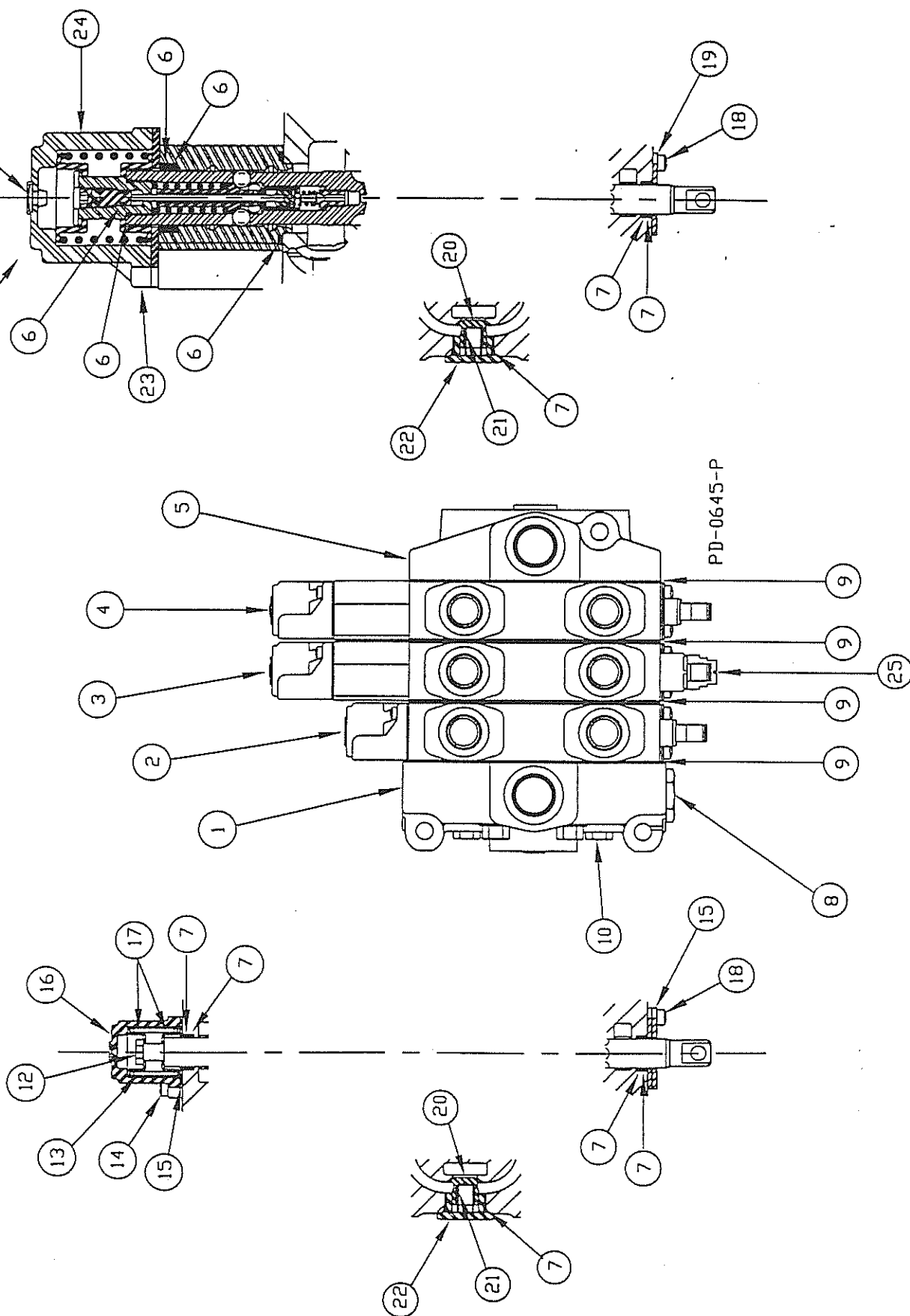
**TAILGATE HYDRAULICS**  
**(REGENERATION VALVE AND PACKING CYLINDER LINES)**

ITEM	PART NO.	DESCRIPTION	( PL-0232C )	QTY.
1	2101969	Packing Cylinder Crossover Tube (Rod End)		1
2	2101930	Packing Cylinder Crossover Tube (Base End)		1
3	2114113	Regeneration Valve Assembly		1
4	5505354000	SAE "O" Ring		10
5	2101538	Str. Thd. Elbow (Includes "O" Ring)		2
6	1031111000	Str. Thd. Connector (Includes "O" Ring)		3
7	2114625	Oil Hose Assembly		2
8	2114627	Oil Hose Assembly		2
9	2114736	Oil Hose Assembly		1
10	2114737	Oil Hose Assembly		1
11	5505352000	SAE "O" Ring		2
12	2052290000	Rear Control Valve Assembly		1
13	2102658	Port Restrictor		1
14	2101643	Swivel Nut Elbow		2
15	1002162	Union		2

# REAR CONTROL VALVE ASSEMBLY

PART NO. 2052290000

NOTE:  
THIS SECTION IS BROKEN DOWN FURTHER  
ON ANOTHER PAGE OF THIS MANUAL.



## REAR CONTROL VALVE ASSEMBLY

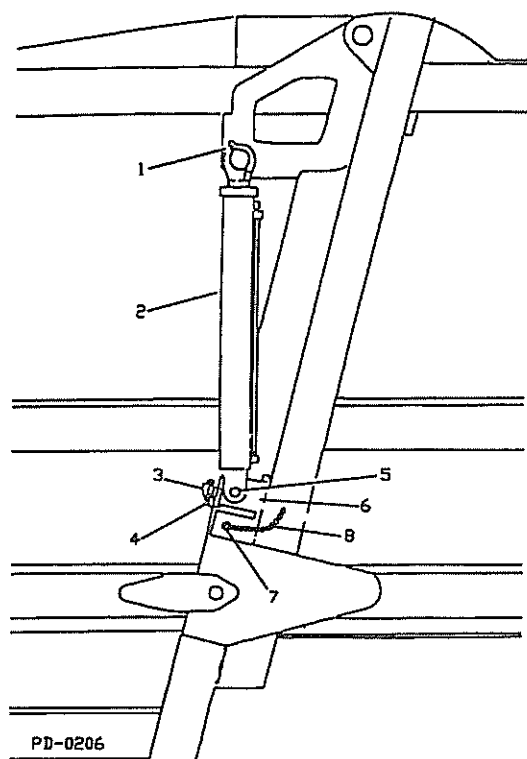
ITEM	PART NO.	DESCRIPTION	( PL-0645V )	QTY.
	2052290000	Control Valve Assembly - Complete		1
	NOTE: ITEM # 25 NOT INCLUDED WITH COMPLETE VALVE - MUST BE ORDERED AS SEPARATE PART.			
1	2101896	Inlet Section		1
2	2101897	Valve Section		1
3	2101898	Valve Section		1
4	2101899	Valve Section		1
5	2101900	Outlet Section		1
6	2102660	Seal Kit (kickout)		2
7	2101903	Seal Kit		3
8	*2101904	Plug Seal Kit		1
9	2101902	Between Sections Seal Kit		4
10	2101901	Assembly Stud Kit		4
11	2103537	Grommet, Plug		2
12	2103991	Stripper Bolt		1
13	5505406000	Spring		1
14	5505396000	Screw		2
15	5505398000	Retaining Plate		3
16	5505388000	Cap		1
17	5505397000	Spring Guide		2
18	2103992	Screw		2
19	2103993	Retaining Plate		2
20	5501908000	Transition Check Poppet		3
21	5501912000	Spring		3
22	5501907000	Cap		3
23	2114839	Screw		4
24	2114838	End Cap		2
25	**2103058	Static Relief Valve Assembly (2600 P.S.I.) (A300 Units)		1
	**2101087	Static Relief Valve Assembly (3500 P.S.I.) (G300 & G370 Units)		1
	2114840	Kit, Service (Includes Items 11, 24, & 25)		1

\*ON G370 UNITS THIS PLUG MUST BE REPLACED WITH 2101086  
RELIEF VALVE, SET @ 2000 P.S.I.

\*\* NOT INCLUDED WITH COMPLETE CONTROL VALVE - MUST BE ORDERED  
AS SEPARATE PART.

NOTE: WHEN ORDERING COMPLETE VALVE OR SEPARATE PARTS ALWAYS GIVE THE  
UNIT'S MODEL AND SERIAL NUMBERS.

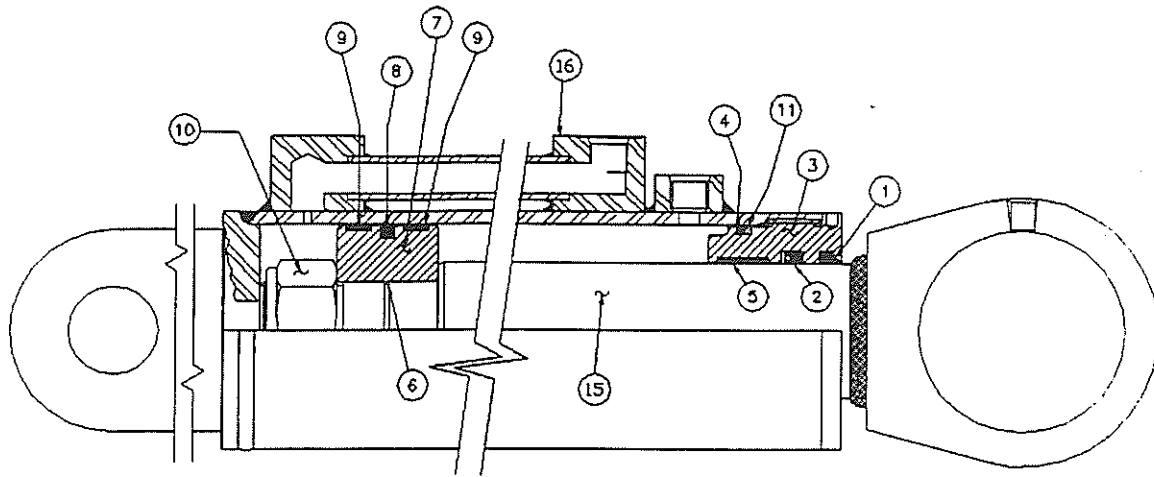
# AUTOMATIC TAILGATE LATCH ASSEMBLY



ITEM	PART NO.	DESCRIPTION	(PL-0206D)	QTY.
1	G06369000	Cotter Pin		2
2	2101947	Lift Cylinder Assembly (K3031-CDA)		2
	2114636	Lift Cylinder Assembly (C3031-DDA)		2
3	2104884	Gate Open Switch		2
	G23437000	Machine Screw		2
	2110067	Lock Nut		2
	2110046	Flat Washer		2
4	1068516000	Switch Engagement Rod		2
5	1068875000	Cylinder Pin		2
	G06263000	Cotter Pin		4
	G39035000	Flat Washer		2
6	2106631	Latch Slide Assembly		2
7	1059102000	Quick Release Pin		2
8	2109921	Jack Chain		2



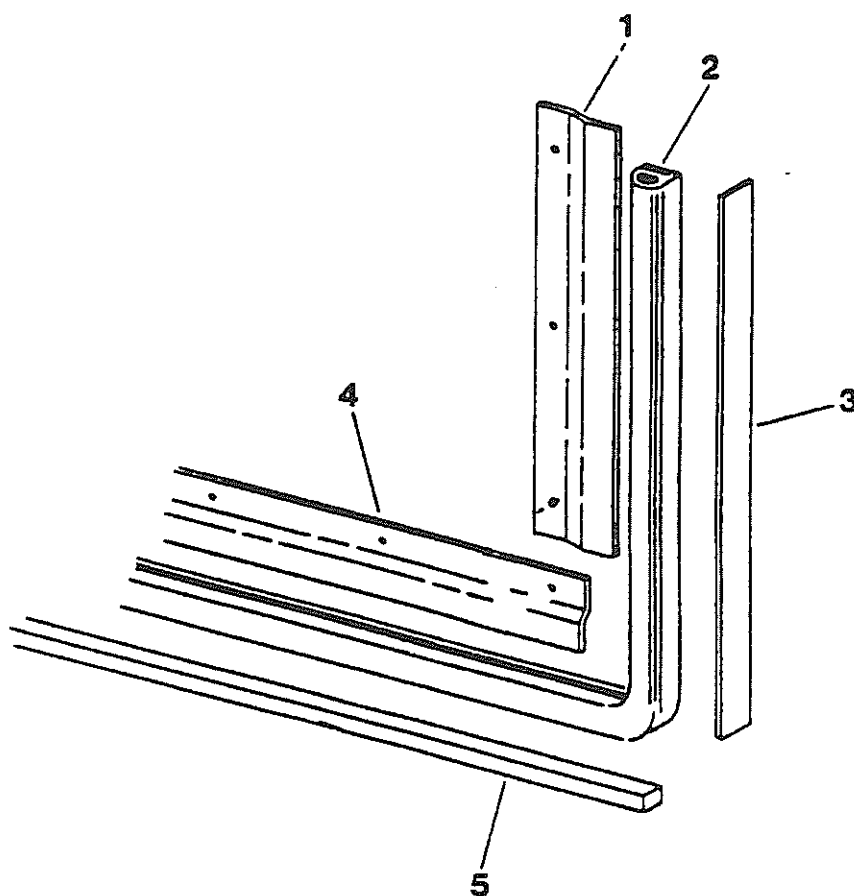
# CYLINDER ASSEMBLY (MODEL K3031-CDA)



PD-0527

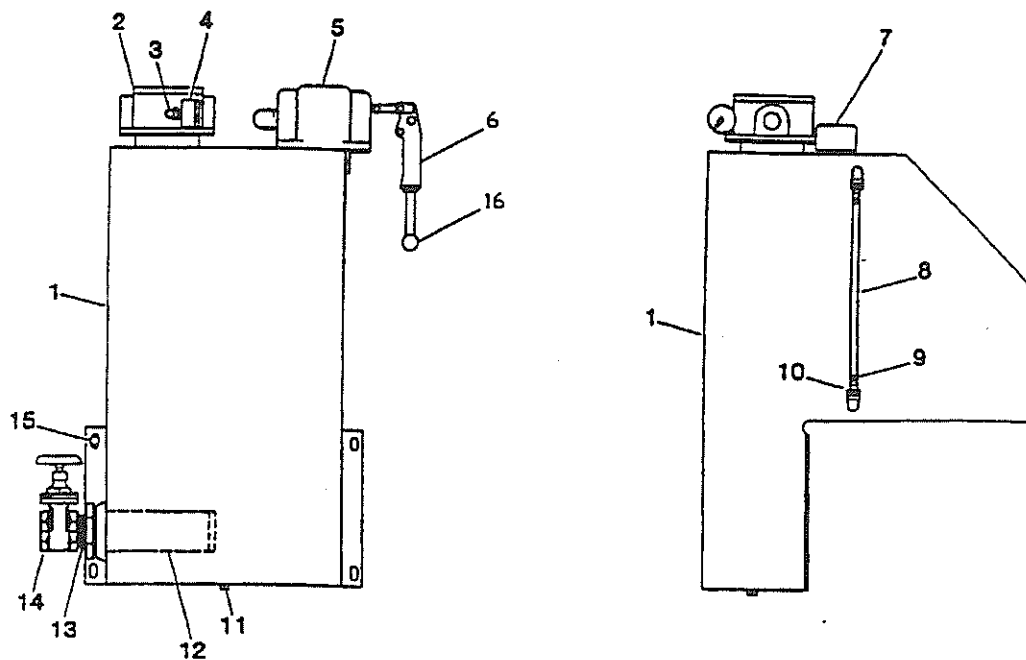
ITEM	PART NO.	DESCRIPTION	(PL-0527)	QTY.
	2101947	Cylinder Assembly Complete (Model K3031-CDA)		1
1	*2101277	Rod Wiper		1
2	*2101627	Rod Seal		1
3	2101238	Stuffing Box		1
4	*2101303	O-Ring		1
5	*2101247	Wear Bearing		1
6	*2101313	O-Ring		1
7	2101228	Piston		1
8	*2101256	Piston Seal		1
9	*2101296	Wear Bearing		2
10	2101211	Lock Nut		1
11	*2101244	Back-Up Ring		1
15	2103556	Plunger Assembly		1
16	2103555	Casing Assembly		1
	*2101226	Seal Kit Assembly		1

# TAILGATE SEAL PARTS



ITEM	PART NO.	DESCRIPTION	(PL-0212B)	QTY.
	2048540000	Tailgate Seal Kit Complete`		1
1	2106772	Side Seal Clamp		2
2	1064893000	Seal		1
3	1068754000	Seal Retainer		2
4	2106771	Bottom Seal Clamp		1
5	1020961017	Seal Stop Bar		1

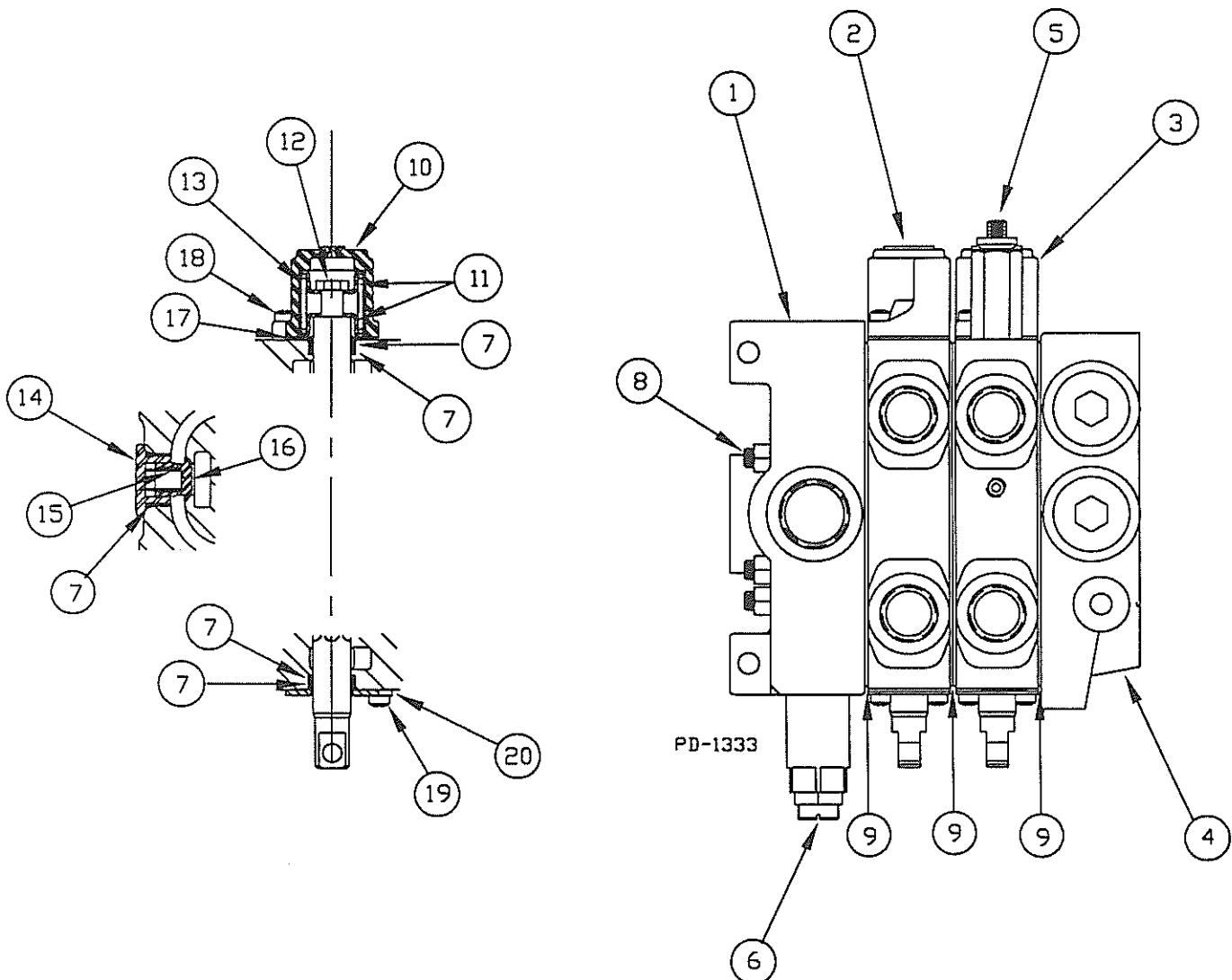
# OIL RESERVOIR ASSEMBLY



ITEM	PART NO.	DESCRIPTION	(PL-0204C)	QTY.
	2111141	Oil Reservoir Assembly w/Control Valve Assy.		1
1	2111140	Oil Reservoir Weldment (Includes Items 2 & 12) 1		
2	2048527000	Return Filter Assembly		1
	5505807000	Filter Element - Only		1
	2106647	O-Ring - Only		1
	2106648	Gasket - Only		1
3	G08004000	St. Elbow		1
4	1065305000	Filter Gauge		1
5	2110042	Front Control Valve Assembly		1
6	2101527	Lever Assembly		2
7	2039025000	Filler/Breather Cap		1
8	1066198012	Oil Sight Tube		1
9	1066196000	Tube Clamp		2
10	1066197000	Straight Barb Fitting		2
11	1052678000	Magnetic Drain Plug		1
12	1068260000	Suction Strainer		1
13	G08413000	Close Nipple		1
14	1026918000	Gate Valve		1
15	G18231000	Hex Hd. Cap Screw		4
	G09235000	Lock Nut		4
	G39525000	Flat Washer		4
16	2103570	Knob - Only		2

# FRONT CONTROL VALVE ASSEMBLY

PART NO. 2110042

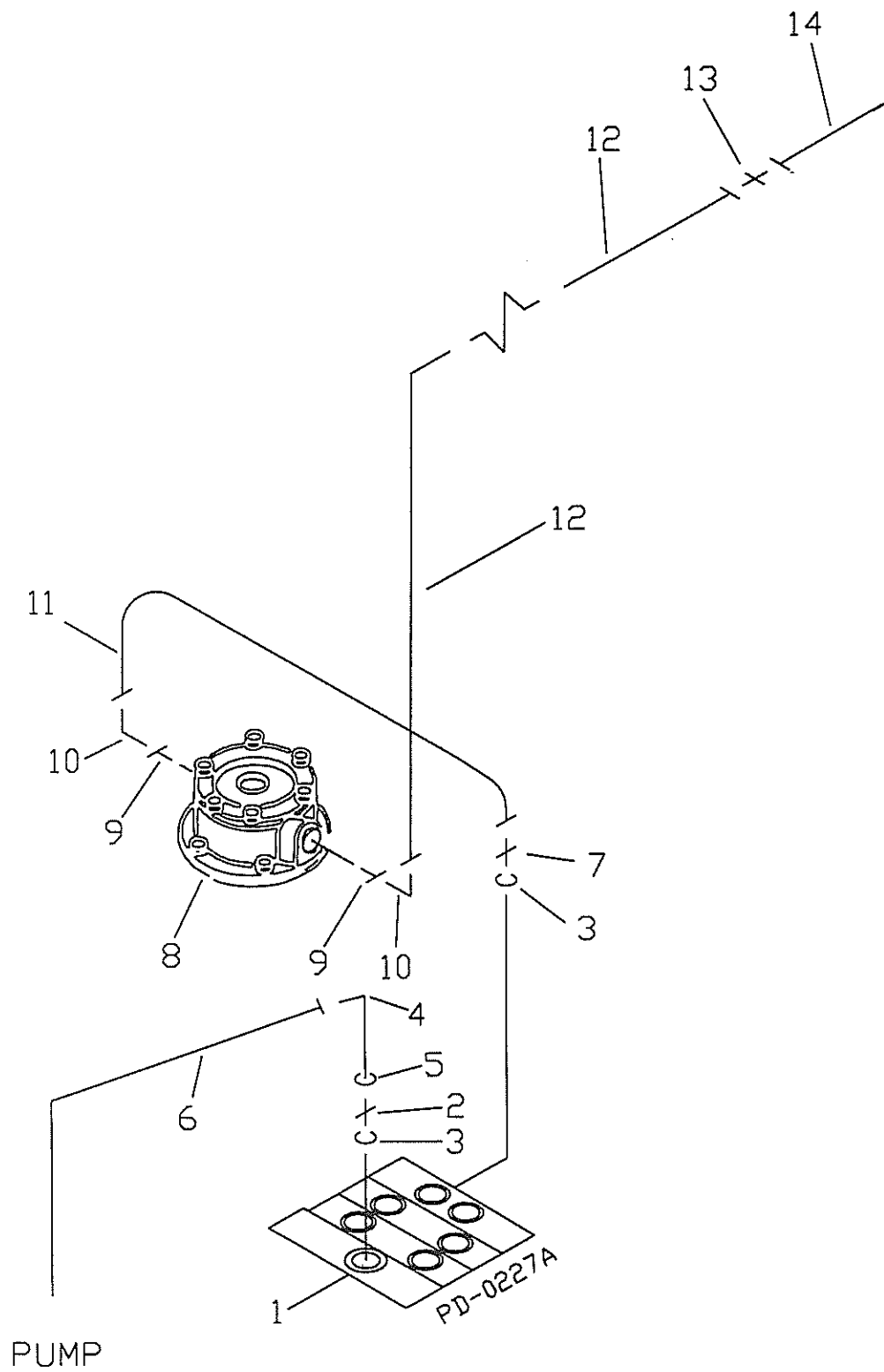


# FRONT CONTROL VALVE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	(PL-1333A)	QTY.
	2110042	Control Valve Assembly - Complete		1
1	# NYA	Inlet Section		1
2	2102889	Valve Section		1
3	2101890	Valve Section		1
4	# NYA	Outlet Section		1
5	2103949	Drift Relief Valve (2100 @ 1 GPM) (A300) (C200E)		1
	2104252	Drift Relief Valve (2000 @ 1 GPM) (G300)		1
	2102872	Drift Relief Valve (1900 @ 1 GPM) (G370)		1
	2104088	Drift Relief Valve (1500 @ 1 GPM) (M150A)		1
6	2102651	Relief Valve (2500 PSI) (A300) (G370) (C200E)		1
	2102624	Relief Valve (2200 PSI) (G300)		1
	2104089	Relief Valve (2000 PSI) (M150A)		1
7	2101894	Seal Kit		2
8	# NYA	Stud Assembly		4
9	2101893	Between Section Seal Kit		3
10	2101386	Cap		2
11	2101394	Spring Guide		4
12	2101391	Stripper Bolt		2
13	2101406	Return Spring		2
14	5501907000	Check Cap		2
15	5501912000	Check Spring		2
16	5501908000	Transition Check Poppet		2
17	2103987	Retaining Plate		2
18	2101393	Screw		4
19	2101392	Screw		4
20	2103988	Retaining Plate		4

NOTE: WHEN ORDERING COMPLETE VALVE OR SEPARATE PARTS ALWAYS GIVE THE UNIT'S MODEL AND SERIAL NUMBERS.

# PUMP AND RETURN LINE HYDRAULICS



## PUMP AND RETURN LINE HYDRAULICS

ITEM	PART NO.	DESCRIPTION (PL-0227B)	QTY.
1	2110042	Front Control Valve Assembly Complete	1
2	2045087026	Reducer Expander (Includes "O" Ring)	1
3	5505354000	SAE "O" Ring	2
4	2101456	Str. Thd. Elbow - TAPPED (Includes "O" Ring)	1
5	5505352000	SAE "O" Ring	1
6	2101653	Oil Hose Assembly	1
7	1031111000	Str. Thd. Connector (Includes "O" Ring)	1
8	2048527000	Return Filter Assembly	1
	5505807000	Filter Element - Only	1
	2106647	O-Ring - Only	1
	2106648	Gasket - Only	1
9	G08387000	Reducer Bushing	2
10	1007834000	Male Elbow	2
11	2102401	Oil Hose Assembly	1
12	2101573	Tube Assembly (16 Yd. Body) (A-300 Only)	1
	2101601	Tube Assembly (18 Yd. Body)	1
	2101508	Tube Assembly (20 Yd. Body)	1
	2101611	Tube Assembly (25 Yd. Body)	1
	2101608	Tube Assembly (25 EXT. Body)	1
	2101605	Tube Assembly (31 Yd. Body) (G-300 Only)	1
13	1047473000	Union	1
14	2101526	Oil Hose Assembly	1

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.





# **PRESSURE AND TAILGATE LIFT HYDRAULICS**

ITEM	PART NO.	DESCRIPTION	(PL-0225B)	QTY.
1	2110042	Front Control Valve Assembly Complete		1
2	1038435000	Str. Thd.. Connector (Includes "O" Ring)		2
3	5505352000	SAE "O" Ring		2
4	2101939	Tube Assembly (16 Yd. Body) (A-300 Only)		1
	2101940	Tube Assembly (18 Yd. Body)		1
	2101941	Tube Assembly (20 Yd. Body)		1
	2101942	Tube Assembly (25 Yd. Body)		1
	2101943	Tube Assembly (25 EXT. Body)		1
	2101944	Tube Assembly (31 Yd. Body) (G-300 Only)		1
5	2101945	Cross Over Tube Assembly		1
6	2110350	Tube Assembly (16 Yd. Body) (A-300 Only)		1
	2110351	Tube Assembly (18 Yd. Body)		1
	2110281	Tube Assembly (20 Yd. Body)		1
	2110352	Tube Assembly (25 Yd. Body)		1
	2110353	Tube Assembly (31 Yd. Body) (G-300 Only)		1
7	1002162	Union		1
8	2101526	Oil Hose Assembly		1
9	1016014000	Straight Threaded Elbow		1
10	2101575	Tube Assembly (16 Yd. Body) (A-300 Only)		1
	2101603	Tube Assembly (18 Yd. Body)		1
	2101510	Tube Assembly (20 Yd. Body)		1
	2101612	Tube Assembly (25 Yd. Body)		1
	2101607	Tube Assembly (25 EXT. Body)		1
	2101606	Tube Assembly (31 Yd. Body) (G-300 Only)		1
11	1037627000	Union Tee		2
12	2101509	Cross Over Tube Assembly		1
13	2101651	Oil Hose Assembly		4
14	2101649	Str. Thd. Connector (Includes "O" Ring)		2
15	5505349000	SAE "O" Ring		2
16	1013902000	Connector		2
17	2044541000	Check Valve		1
18	1038229000	Street Tee		1
19	2103104	Hose		1
20	2102974	Swivel Nut Run Tee		1
21	2045087026	Reducer Expander		1
22	G46521	Close Nipple		1
23	2101456	Elbow (Spl. Tapped)		1
24	5505354000	SAE "O" Ring		

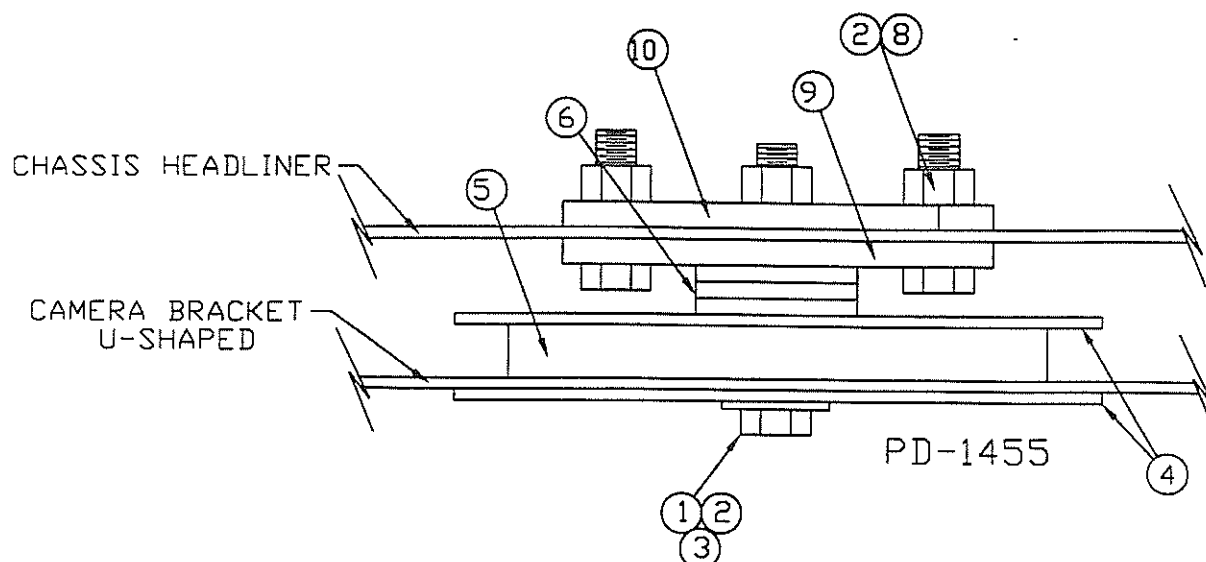
**KIT, CAMERA MACK LE-MG OVERHD (COMPLETE)**

**DRAWING NOT AVAILABLE  
FOR THIS PRINTING**

PD-1456

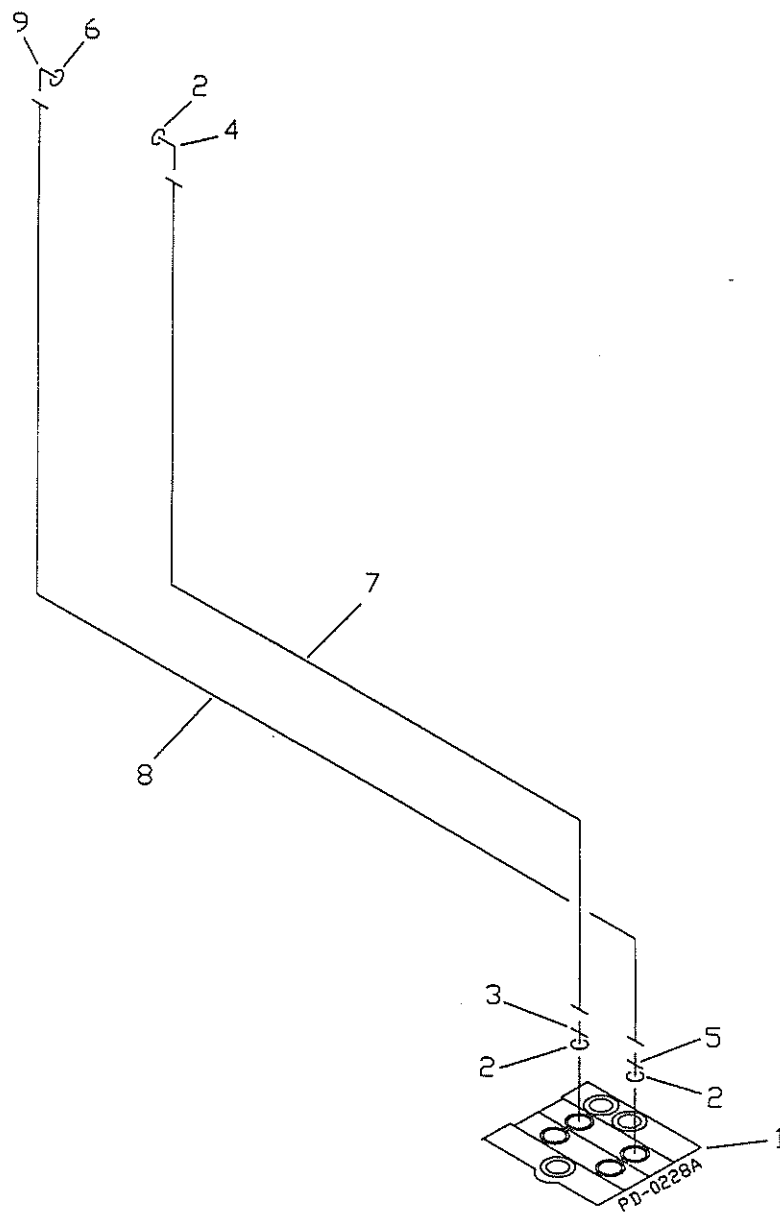
ITEM	DESCRIPTION	(PL-1456)	PART NO.	QTY.
	KIT, CAMERA MACK LE-MG OVERHD (COMPLETE)		2105131	
1.	SHEET, MONITOR MTG		2103950	1
2.	RETAINER, MONITOR MTG		2103951	4
3.	CHANNEL, ROLLED		2109995	2
4.	SCREW, CAP HEX HD 3/8-16 X 3/4		G181020	4
5.	SCREW, SELF TAPPING 1/3-20 X 3/8		2103388	8
6.	WASHER, FLAT 3/8		G394250	4
7.	WASHER, LOCK 3/8		G392500	4
8.	KIT, MONITOR M.G.		2106704	1
9.	BAG, BURLAP		1001060	1

## CAMERA SYSTEM MOUNT COMPLETE



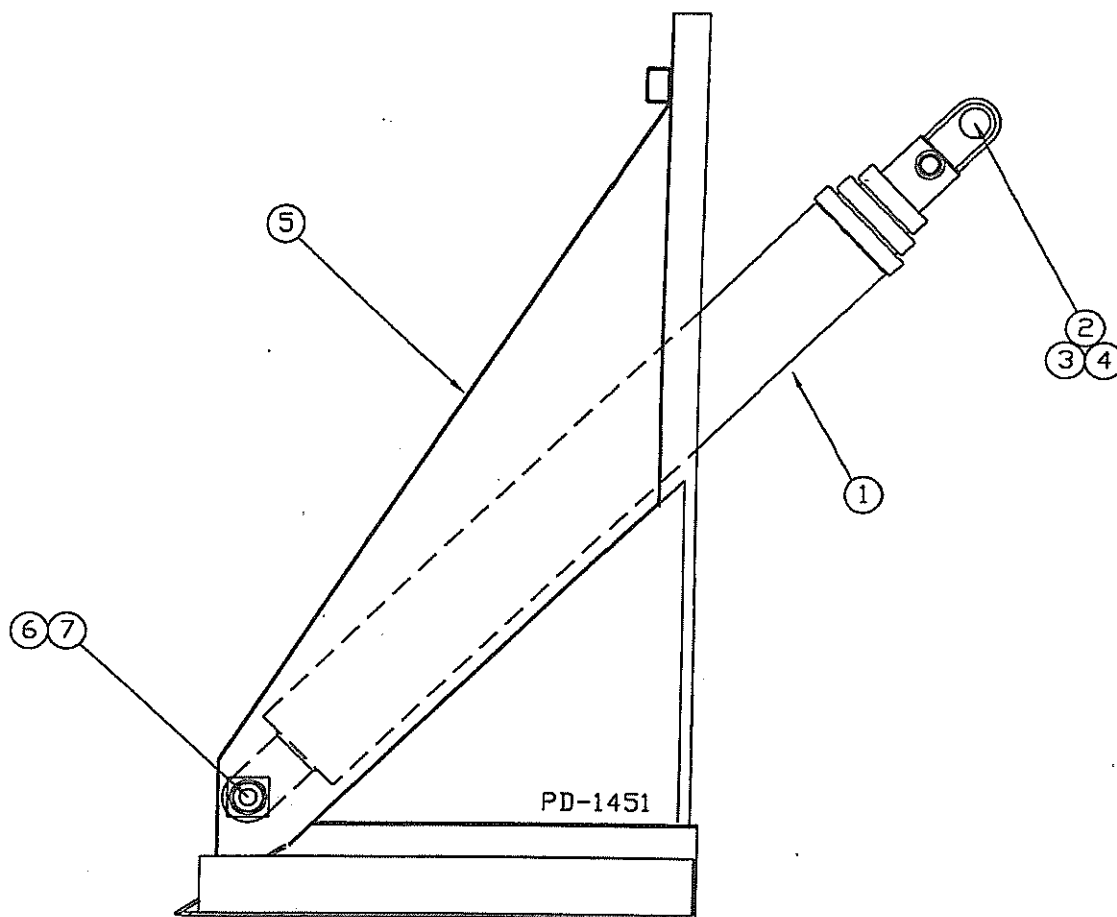
ITEM	DESCRIPTION	(PL-1455)	PART NO.	QTY.
	KIT. CAMERA SYSTEM MOUNT COMPLETE		2106704	
1.	SCREW. HEX HD CAP 3/8-16 X 2.5		1016179	1
2.	NUT. 3/8-16 CENTERLOCK		G091360	5
3.	WASHER. 3/8 BOLT		G091360	1
4.	BRACKET, CAMERA SUPPORT		2106702	2
5.	CUSHION, RUBBER CAMERA		2106703	1
6.	WASHER 3/4 BOLT		G396770	3
7.	BAG. BURLAP		1001060	1
8.	SCREW. HEX HD CAP 3/8-16 X 1.5		G181060	4
9.	BRACKET, CAMERA M.G. BOTTOM		2109191	1
10.	BRACKET, CAMERA M.G. TOP		2109190	1

# EJECTION CYLINDER HYDRAULICS



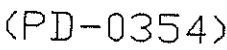
ITEM	PART NO.	DESCRIPTION	(PL-0228B)	QTY.
1	2110042	Front Control Valve Assembly Complete		1
2	5505352000	SAE "O" Ring		3
3	1007813000	Str. Thd. Connector (Includes "O" Ring)		1
4	1007814000	Str. Thd. Elbow (Includes "O" Ring)		1
5	1038435000	Str. Thd. Connector (Includes "O" Ring)		1
6	5505350000	SAE "O" Ring		1
7	2101652000	Oil Hose Assembly (3/4")		1
8	2101650000	Oil Hose Assembly (1/2")		1
9	2031529000	Str. Thd. Elbow (Includes "O" Ring)		1

# EJECTOR PANEL AND EJECTOR CYLINDERS



ITEM	PART NO.	DESCRIPTION	(PL-0208D)	QTY.
1	2101375	Ejector Cyl. Assy. (Model K5269-DDA) (16 Yd.)		1
	2114654	Ejector Cyl. Assy. (Model C5269-EDA) (16 Yd.)		1
	2101376	Ejector Cyl. Assy. (Model K5283-DDA) (18 Yd.)		1
	2114655	Ejector Cyl. Assy. (Model C5283-EDA) (18 Yd.)		1
	2101377	Ejector Cyl. Assy. (Model K5297-DDA) (20 Yd.)		1
	2114656	Ejector Cyl. Assy. (Model C5297-EDA) (20 Yd.)		1
	2101378	Ejector Cyl. Assy. (Model K53129-DDA) (25 Yd.)		1
	2114657	Ejector Cyl. Assy. (Model C53129-EDA) (25 Yd.)		1
2	1068151000	Upper Cylinder Pivot Pin		1
3	G18215000	Hex Hd. Cap Screw		1
4	G09236000	Lock Nut		1
5	2048652000	Ejector Panel Assembly		1
6	1019486013	Lower Cylinder Pivot Pin		1
7	G39825000	Flat Washer		1

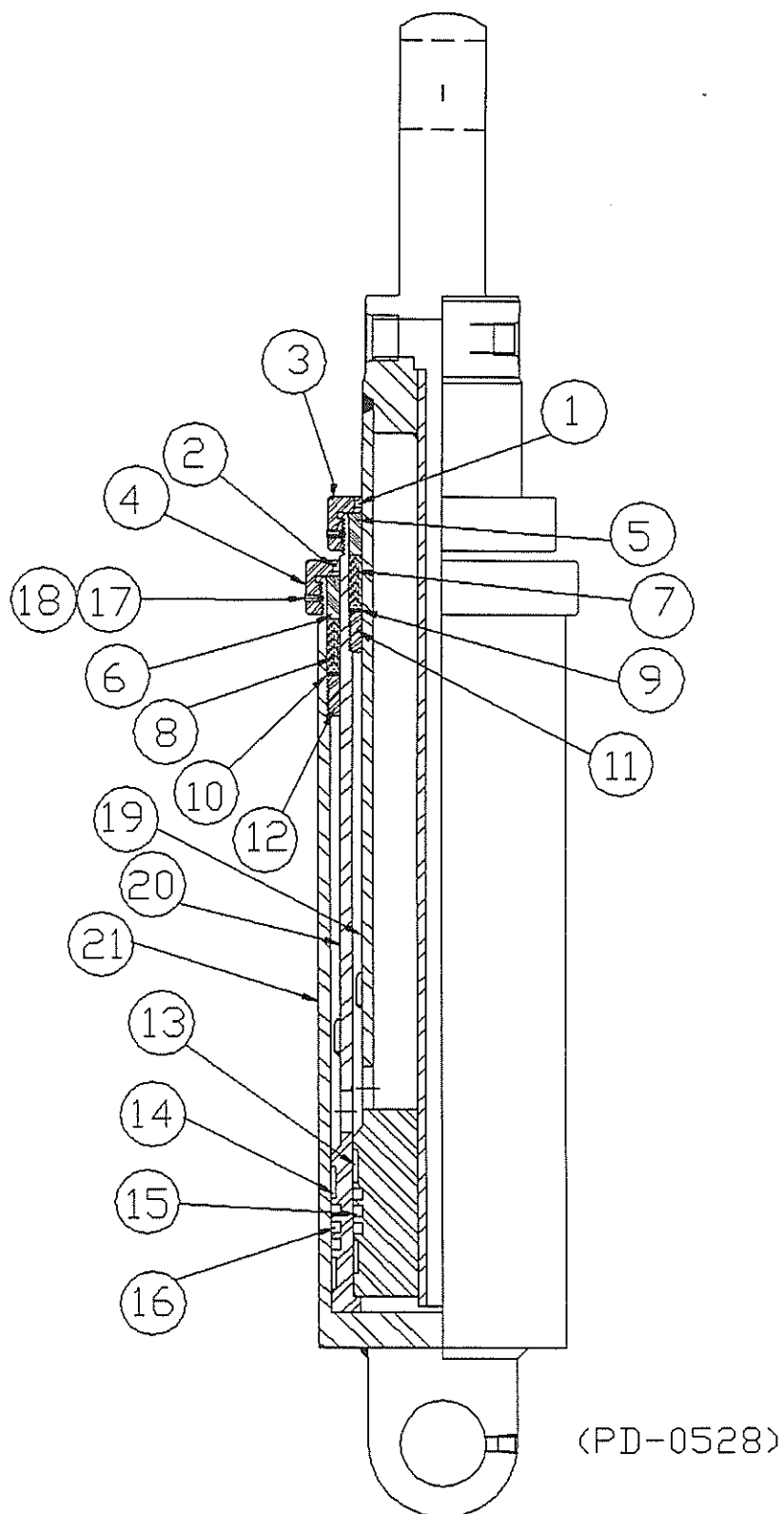
3



# CYLINDER ASSEMBLY (MODEL K5269-DDA)

ITEM	PART NO.	DESCRIPTION	(PL-0354)	QTY.
	2101375	Cylinder Assembly - Complete (Model K5297-DDA)		1
1	+*2101343	Wiper Ring		1
2	+*2101344	Wiper Ring		1
3	2101331	Packing Nut		1
4	2101332	Packing Nut		1
5	+ 2101334	Bearing Ring		1
6	+ 2101335	Bearing Ring		1
7	+ 2101691	Packing Assembly		1
8	+*2101687	Packing Assembly		1
9	+ 2101682	Wave Spring		1
10	+ 2101683	Wave Spring		1
1	2101322	Stop Ring		1
12	2101323	Stop Ring		1
13	+ 2101340	Piston Bearing		2
14	+ 2101341	Piston Bearing		2
15	+ 2101337	Piston Ring		3
16	+ 2101338	Piston Ring		3
17	+ 2101330	Set Screw		2
18	+*2101284	Nylon Ball		2
19	2102757	Plunger Assembly		1
20	2102753	Sleeve Assembly		1
21	2102756	Casing Assembly		1
	+ 2102759	Rebuild Kit		1
	*2102761	Seal Kit		1

# CYLINDER ASSEMBLY (MODEL K5283-DDA)

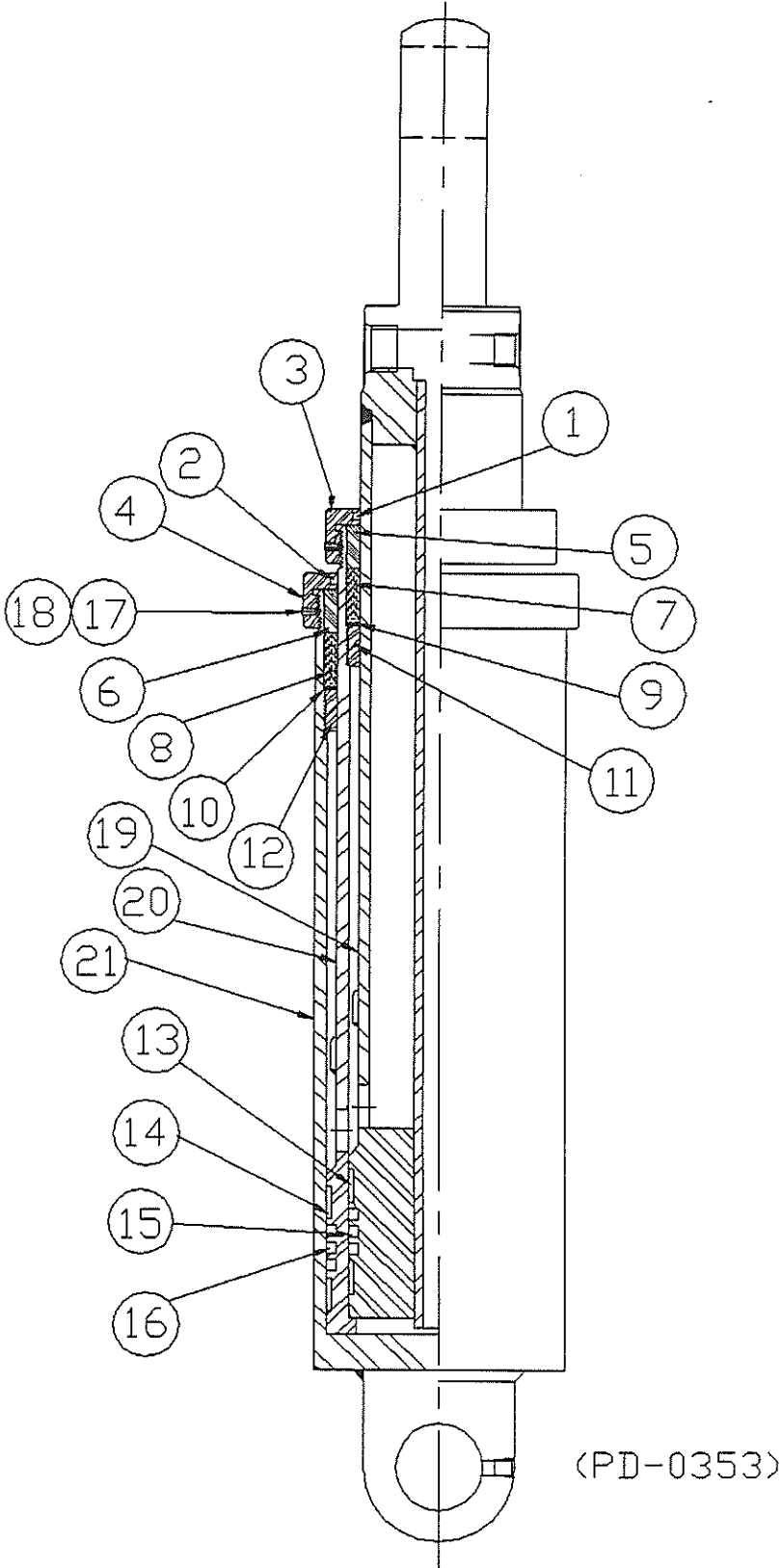




## CYLINDER ASSEMBLY (MODEL K5283-DDA)

ITEM	PART NO.	DESCRIPTION	(PL-0528)	QTY.
	2101376	Cylinder Assembly - Complete (Model K5283-DDA)		1
1	+*2101343	Wiper Ring		1
2	+*2101344	Wiper Ring		1
3	2101331	Packing Nut		1
4	2101332	Packing Nut		1
5	+ 2101334	Bearing Ring		1
6	+ 2101335	Bearing Ring		1
7	+ 2101691	Packing Assembly		1
8	+*2101687	Packing Assembly		1
9	+ 2101682	Wave Spring		1
10	+ 2101683	Wave Spring		1
11	2101322	Stop Ring		1
12	2101323	Stop Ring		1
13	+ 2101340	Piston Bearing		2
14	+ 2101341	Piston Bearing		2
15	+ 2101337	Piston Ring		3
16	+ 2101338	Piston Ring		3
17	+ 2101330	Set Screw		2
18	+*2101284	Nylon Ball		2
19	2102758	Plunger Assembly		1
20	2103557	Sleeve Assembly		1
21	2103558	Casing Assembly		1
	+ 2102759	Rebuild Kit		1
	*2102761	Seal Kit		1

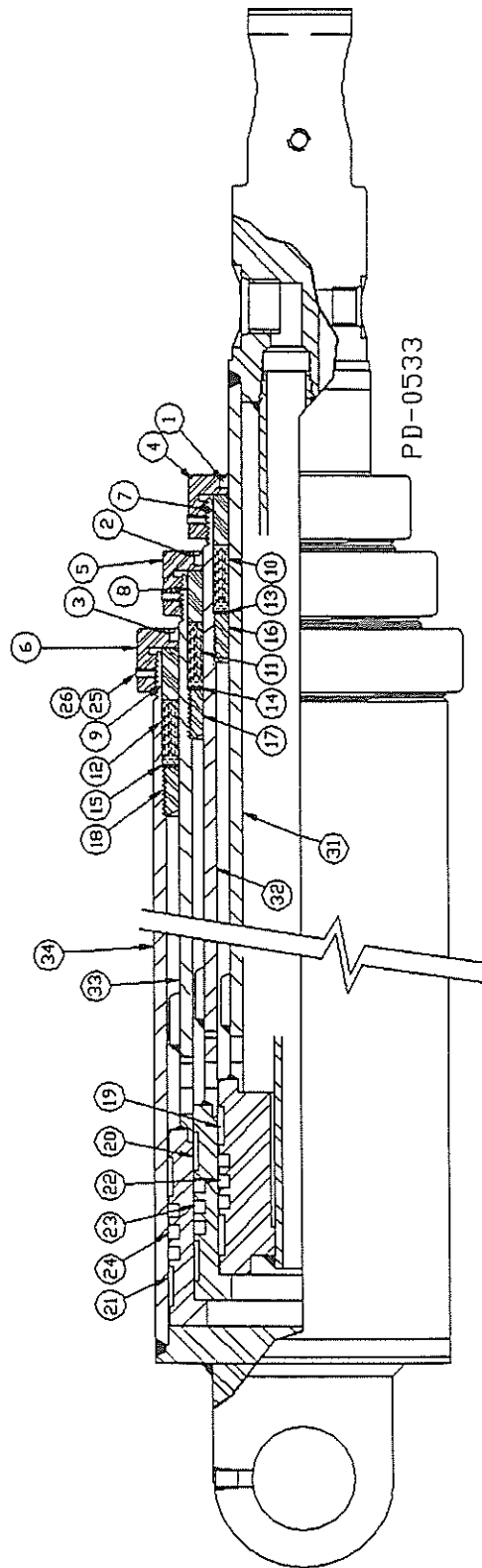
## CYLINDER ASSEMBLY (MODEL K5297-DDA)



# CYLINDER ASSEMBLY (MODEL K5297-DDA)

ITEM	PART NO.	DESCRIPTION (PL-0353)	QTY.
	2101377	Cylinder Assembly - Complete (Model K5297-DDA)	1
1	+*2101343	Wiper Ring	1
2	+*2101344	Wiper Ring	1
3	2101331	Packing Nut	1
4	2101332	Packing Nut	1
5	+ 2101334	Bearing Ring	1
6	+ 2101335	Bearing Ring	1
7	+ 2101691	Packing Assembly	1
8	+*2101687	Packing Assembly	1
9	+ 2101682	Wave Spring	1
10	+ 2101683	Wave Spring	1
11	2101322	Stop Ring	1
12	2101323	Stop Ring	1
13	+ 2101340	Piston Bearing	2
14	+ 2101341	Piston Bearing	2
15	+ 2101337	Piston Ring	3
16	+ 2101338	Piston Ring	3
17	+ 2101330	Set Screw	2
18	+*2101284	Nylon Ball	2
19	2102758	Plunger Assembly	1
20	2102754	Sleeve Assembly	1
21	2102756	Casing Assembly	1
	+ 2102759	Rebuild Kit	1
	*2102761	Seal Kit	1

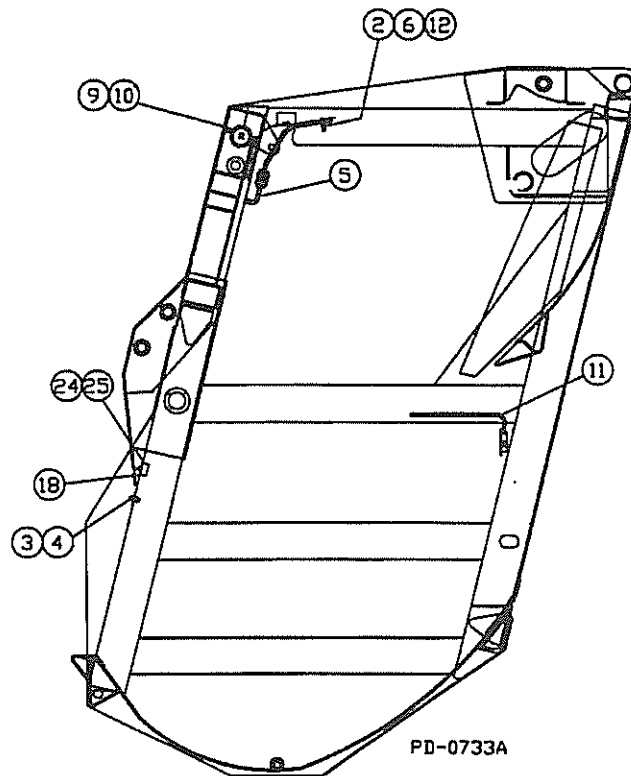
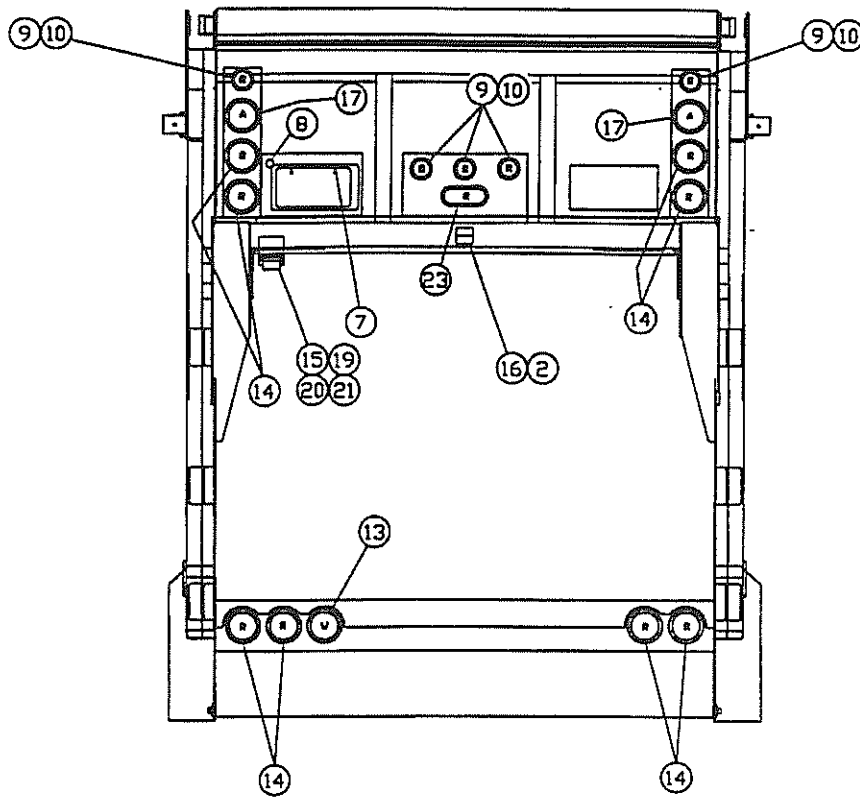
CYLINDER ASSEMBLY (MODEL K53129-DDA)



# CYLINDER ASSEMBLY (MODEL K53129-DDA)

ITEM	PART NO.	DESCRIPTION (PL-0533)	QTY
	2101378	Cylinder Assembly Complete (Model K53129-DDA)	1
1	+*2101775	Wiper Ring	1
2	+*2101343	Wiper Ring	1
3	+*2101344	Wiper Ring	1
4	2101774	Packing Nut	1
5	2101331	Packing Nut	1
6	2101332	Packing Nut	1
7	*2101773	Bearing Ring	1
8	*2101334	Bearing Ring	1
9	*2101335	Bearing Ring	1
10	+*2101772	Packing Assembly	1
11	+*2101691	Packing Assembly	1
12	+*2101687	Packing Assembly	1
13	*2101771	Wave Spring	1
14	*2101682	Wave Spring	1
15	*2101683	Wave Spring	1
16	2101770	Stop Ring	1
17	2101322	Stop Ring	1
18	2101323	Stop Ring	1
19	*2101777	Piston Bearing Ring	2
20	*2101340	Piston Bearing Ring	2
21	*2101341	Piston Bearing Ring	2
22	*2103598	Piston Ring	3
23	*2101337	Piston Ring	3
24	*2101338	Piston Ring	3
25	*2101330	Set Screw	3
26	*2101284	Nylon Ball	3
31	2103593	Plunger Assembly	1
32	2103592	Sleeve Assembly	1
33	2103591	Sleeve Assembly	1
34	2103590	Casing Assembly	1
	+2101466	Seal Kit Assembly	1
	*2103599	Rebuild Kit	1

# TAILGATE WIRING (A300 &G300)

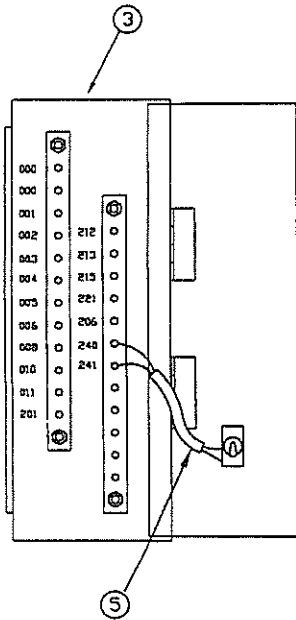
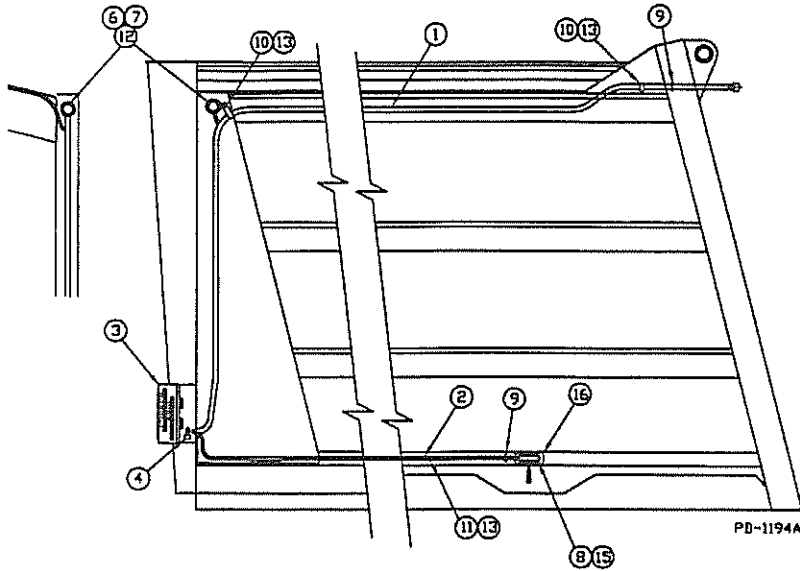


PD-0733A

# TAILGATE WIRING (A300 &G300)

ITEM	PART NO.	DESCRIPTION (PL-0733B)	QTY.
2	1037008000	Self Drilling Screw	14
3	1038717000	Buzzer Mounting Plate	2
4	2026598000	Push Button Switch	2
5	2104548	Tailgate Wiring Harness	1
6	1030055012	Clamp	10
7	2037019000	License Plate Bolt & Receptacle	2
8	2104651	License Lamp w/Plug	1
9	1047533000	Red Clearance Lamp	7
10	1053713000	Grommet	7
11	2104842	Gate Open Switch Harness	2
12	G39375000	Flat Washer	10
13	*2040051000	Back-Up Lamp - Clear	1
14	**2040052000	Tail Lamp - Red	8
15	1059854000	Back-Up Alarm	1
16	2104652	Flashing Unit w/Plug	1
17	2045147000	Flashing Lamp - Amber	2
18	1016742135	Sheet	2
19	1072493000	Bracket	1
20	G18027000	Hex Hd.. Cap Screw	2
21	G-0935000	Lock Nut	2
23	2048329000	Stop Lamp - Red	1
24	2036981000	Optional Switch	1
25	1058919000	Switch Cover Plate	1
	*5504921000	Back Up Lamp-Clear Only	
	*5504919000	Lamp-Grommet-Only	
	*5504922000	Lamp-Plug-Only	
	**5504918000	Tail Lamp-Red-Only	
	**5504919000	Lamp-Grommet-Only	
	*5504920000	Lamp-Plug-Only	

# BODY WIRING



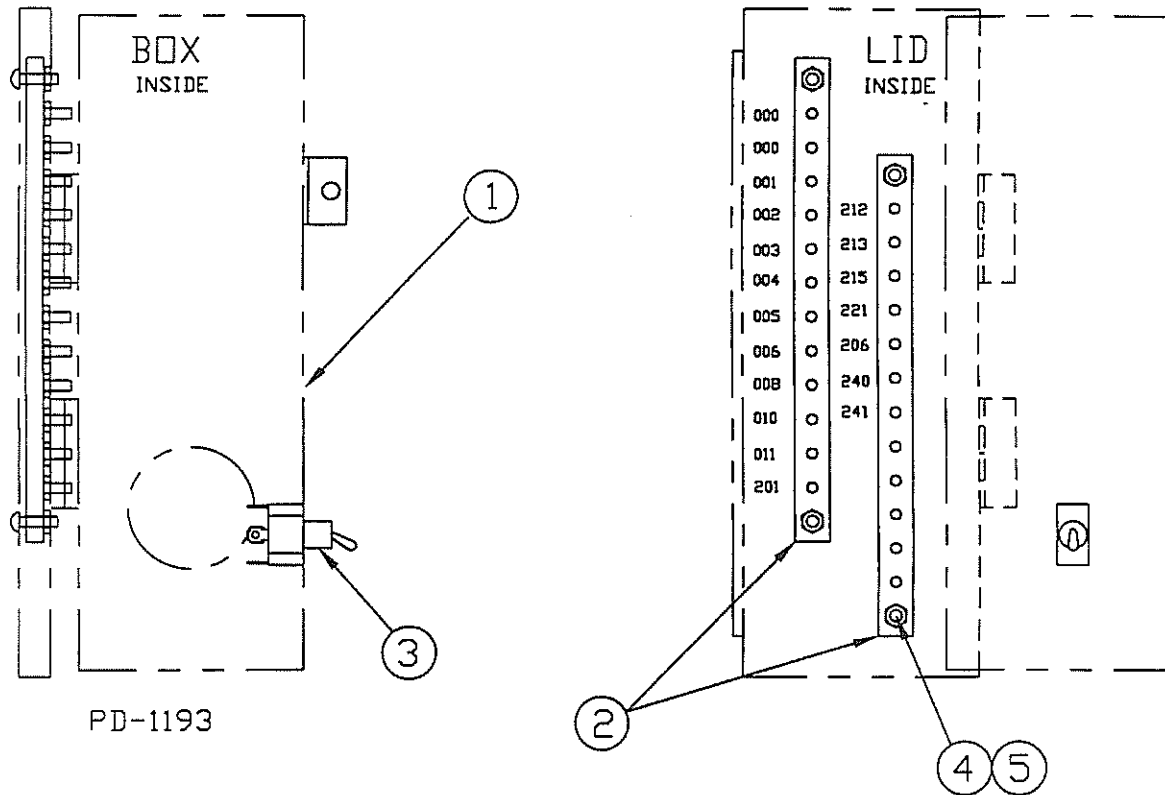
POST # & WIRE #:	WIRE COLOR CODE:	FUNCTION:
000	WE-1 (WHITE-1)	GROUND #1
000	WE-2 (WHITE-2)	GROUND #2
001	BK (BLACK)	CLEARANCE LIGHTS
002	LT GN (LIGHT GREEN)	RIGHT TURN SIGNAL
003	YW (YELLOW)	LEFT TURN SIGNAL
004	RD (RED)	STOP LIGHTS
005	BN (BROWN)	TAIL LIGHTS
006	VT (VIOLET)	TAILGATE OPEN SWITCH-IN
008	WE/BK (WHITE W/BLACK STRIPE)	TAILGATE OPEN SWITCH-OUT
010	TN (TAN)	AMBER FLASHER UNIT-POWER
011	BE/BK (BLUE W/BLACK STRIPE)	STROBE LIGHT POWER (opt)
201	DK BE (DARK BLUE)	SPARE
212	OR 2 (ORANGE-2)	HOPPER FLOOD LIGHT POWER (opt)
213	OR 1 (ORANGE-1)	HOPPER FLOOD LIGHT-OUT (opt)
215	PK (PINK)	REAR FLOOD LIGHT POWER (opt)
221	GY (GREY)	SIGNALING BUZZER POWER
206	LT BE (LIGHT BLUE)	BACK-UP LIGHT
240	DK GN (DARK GREEN)	THROTTLE ADVANCE-IN
241	RD/WE (RED W/ WHITE STRIPE)	THROTTLE ADVANCE-OUT



## BODY WIRING

ITEM	PART NO.	DESCRIPTION	(PL-1194B)	QTY.
1	2104546	Body Top Harness		1
2	2104547	Side Marker Harness		1
3	2108362	Electrical Box Assembly		1
4	1048822000	Throttle Decal		1
5	2028246000	Switch Wiring Harness		1
6	2112453	Amber Lamp Assembly		4
7	1001410	Grommet		4
8	2112459	Turn Signal Light		2
9	2043040000	Grommet		5
10	1030055012	Clamp		4
11	1038007000	Clamp		6
12	1019166000	Grommet		2
13	1037008000	Self Drilling Screw		10
14	G39375000	Flat Washer		10
15	1001448	Grommet		2
16	2110305	Light Bracket		2

# CONTROL BOX ASSEMBLY



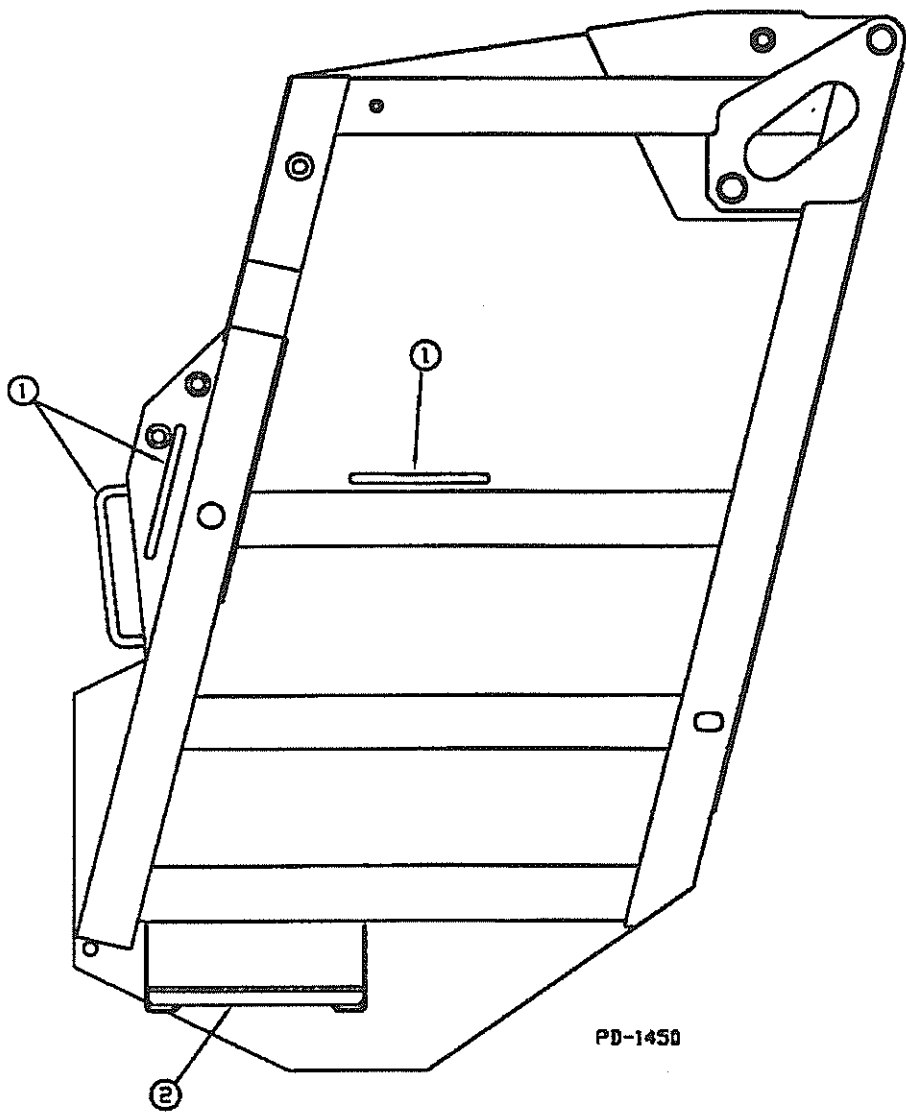
ITEM	PART NO.	DESCRIPTION	(PL-1193)	QTY.
	2108362	Control Box Assembly - Complete		1
1	2108361	Box Assembly - Only		1
2	2104626	Terminal Strip		2
3	2036981000	Toggle Switch		1
4	G23331000	Rd. Hd. Screw		4
5	G09311000	Machine Nut		4

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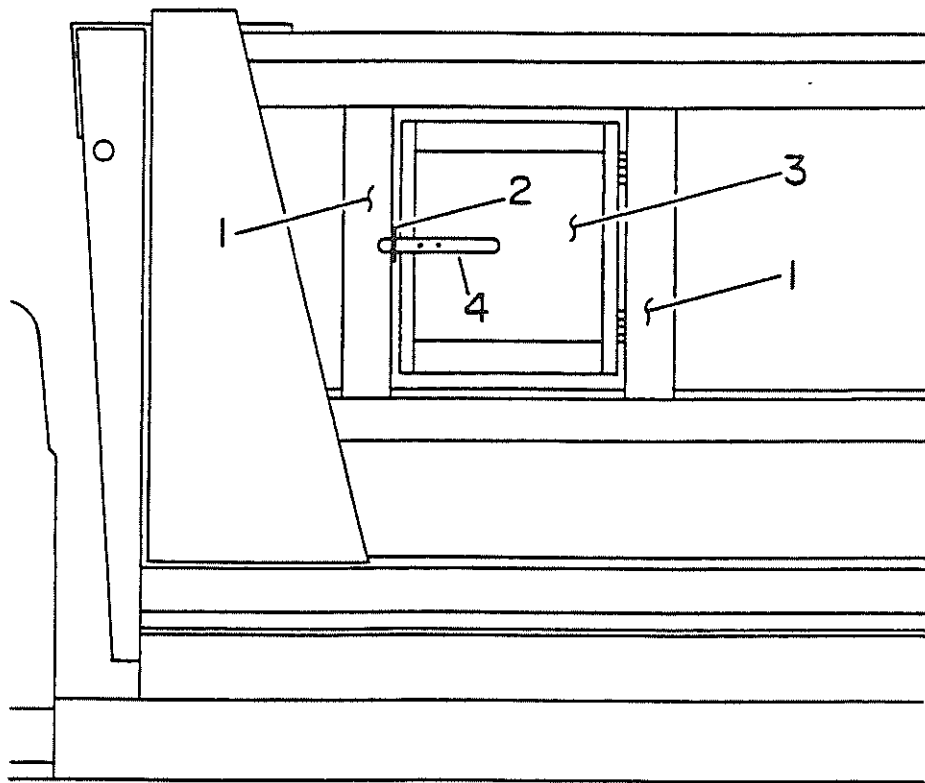
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SIDE MOUNTED REAR STEPS AND GRAB HANDLES



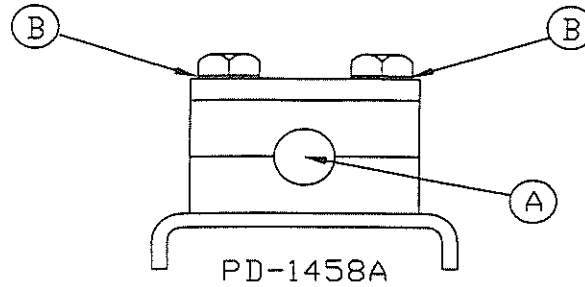
ITEM	PART NO.	DESCRIPTION	(PL-0220B)	QTY.
1	1038784000	Grab Handle		6
2	2107408	Side Step Weldment Assembly (See 2107411) For Step Installation)		2

# OPTIONAL STREETSIDE DOOR ASSEMBLY



ITEM	PART NO.	DESCRIPTION	(PL-0229A)	QTY.
	2048677000	Streetside Door Assembly Kit Complete		1
1	1068842000	Door Frame Brace		2
2	1043152000	Latch		1
3	2036802000	Side Door Assembly (Includes Item #4)		1
4	1037001000	Latch Handle		1
	1037002000	Latch Handle Support		1
	G18231000	Hex Hd. Cap Screw		2
	G09235000	Elastic Stop Nut		2

## STANDARD SERIES SINGLE CLAMPS



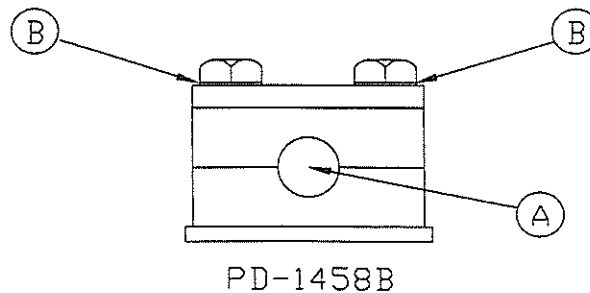
### PART A:

TUBE SIZE	HOSE SIZE	HOSE SIZE W/SOCK	PIPE SIZE	PART NO.
.500	.250	N/A	.250	2050067011
.625	.375	N/A	.375	2050067012
.750	.500	.250	.500	2050067013
1.000	N/A	.375	.750	2050067015

### PART B:

WASHER (not included with clamp-must be ordered separately) QTY. 2 2110060

## HEAVY SERIES SINGLE CLAMPS



### PART A:

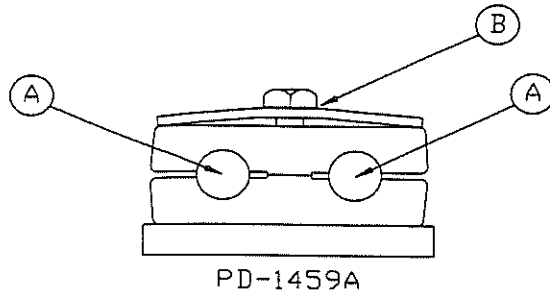
TUBE SIZE	HOSE SIZE	HOSE SIZE W/SOCK	PIPE SIZE	PART NO.
1.000	.625	.375	.250	2050068010
1.125	.750	N/A	N/A	2050068015
1.250	N/A	.500	1.000	2050068011
1.500	1.000	.750	1.250	2050068012
1.750	1.250	1.000	1.500	2050068021
2.500	N/A	N/A	N/A	2102908

### PART B:

WASHER (not included with clamp-must be ordered separately) QTY. 2 2110062



## STANDARD SERIES DUAL CLAMPS



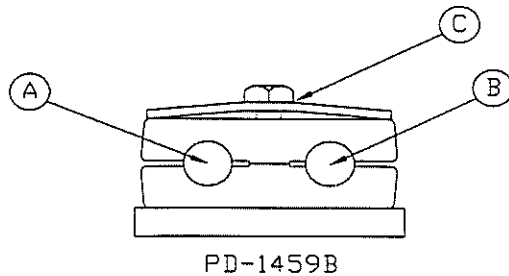
### PART A:

TUBE SIZE	HOSE SIZE	HOSE SIZE W/SOCK	PIPE SIZE	PART NO.
.500	.250	N/A	.250	2101100
.625	.375	N/A	.375	2101101
.750	.500	.250	.500	2101102
1.000	N/A	.375	.750	2101104
1.250	N/A	.500	1.000	2101105

### PART B:

WASHER (not included with clamp-must be ordered separately) QTY. 1 2110061

## DUAL SIZE DUAL CLAMPS

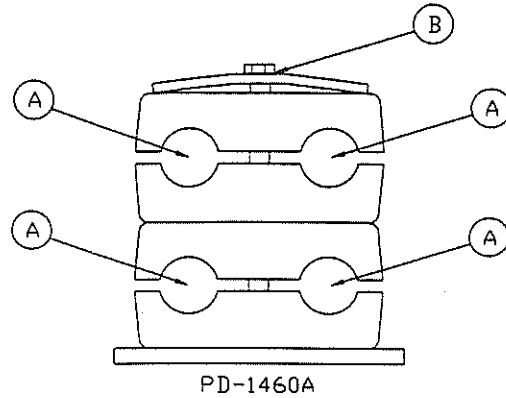


	TUBE SIZE	HOSE SIZE	PIPE SIZE	PART NO.
SIDE A:	.500	.250	.250	
SIDE B:	.750	.500	.500	2101108

### PART C:

WASHER (not included with clamp-must be ordered separately) QTY. 1 2110061

## STANDARD SERIES DUAL STACKED CLAMPS



PD-1460A

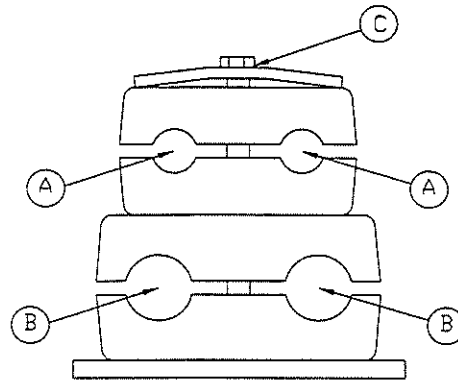
### PART A:

TUBE SIZE	HOSE SIZE	HOSE SIZE W/SOCK	PIPE SIZE	PART NO.
.750	.500	.250	.500	2101988

### PART B:

WASHER (not included with clamp-must be ordered separately) QTY. 1 2110061

## DUAL SIZE DUAL STACKED CLAMPS



PD-1460B

	TUBE SIZE	HOSE SIZE	HOSE SIZE W/SOCK	PIPE SIZE	PART NO.
SIDE A:	.500	.250	N/A	.250	
SIDE B:	.750	.500	.250	.500	2104549

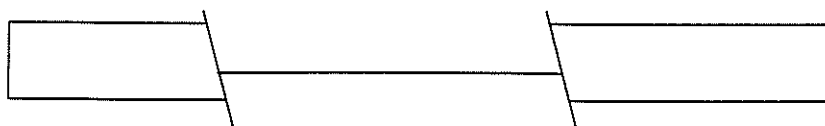
### PART C:

WASHER (not included with clamp-must be ordered separately) QTY. 1 2110061

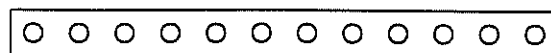
HOSE KIT (MUNCIE MLSM) - SHIPOUT  
PART NUMBER 2109795



RM 19743000 RETURN TO TANK HOSE 1-1/2" X 192"



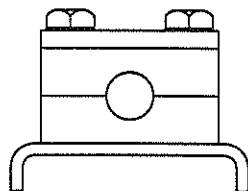
RM 54562000 SUCTION HOSE, 2" X 162"



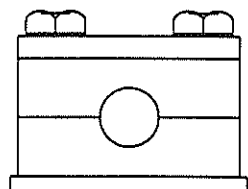
PT# 1072386000 MOUNTING STRAP



PT# 2108011 HIGH PRESSURE HOSE, 1" 37°(F) JIC X 192"



PT# 2050067023 CLAMP, TUBE (2")



PD-1445

PT# 2102908 CLAMP, TUBE (2.5")

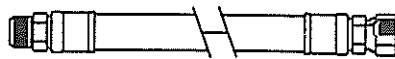
HOSE KIT (MUNCIE MLSM) - IN HOUSE  
PART NUMBER 2109796



RM 19743000 SUCTION HOSE, 1-1/2" X 96"



RM54562000 SUCTION HOSE 2-1/2" X 96"



PT# 2105511 HIGH PRESSURE HOSE, 1.25" X 24.5"



PT# 2105512 HIGH PRESSURE HOSE, 1.25" X 66"



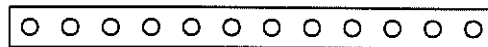
1.25" HARDLINE TUBE



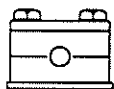
1.50" HARDLINE TUBE



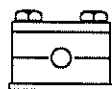
2" HARDLINE TUBE



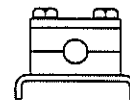
PT# 1072386000 MOUNTING STRAP



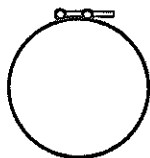
PT# 2050068011  
CLAMP, TUBE 1.25"



PT# 2050068012  
CLAMP, TUBE 1.5"



PT# 2050067023  
CLAMP, TUBE 2"



PT# 1052637011 CLAMP, HOSE 1-1/2"

PT# 1052637012 CLAMP, HOSE 2"

PD-1448

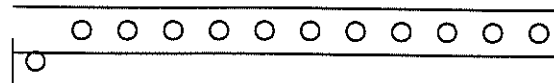
HOSE KIT (PTO INSTALLATION)  
PART NUMBER 2109797



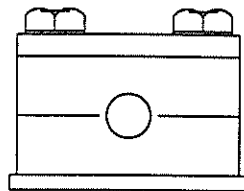
RM 32225000 SUCTION HOSE, 2" X 120"



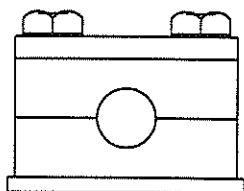
PT# 2102403 HIGH PRESSURE HOSE, 1" 37 (F) JIC X 80"



PT# 1072386000 MOUNTING STRAP



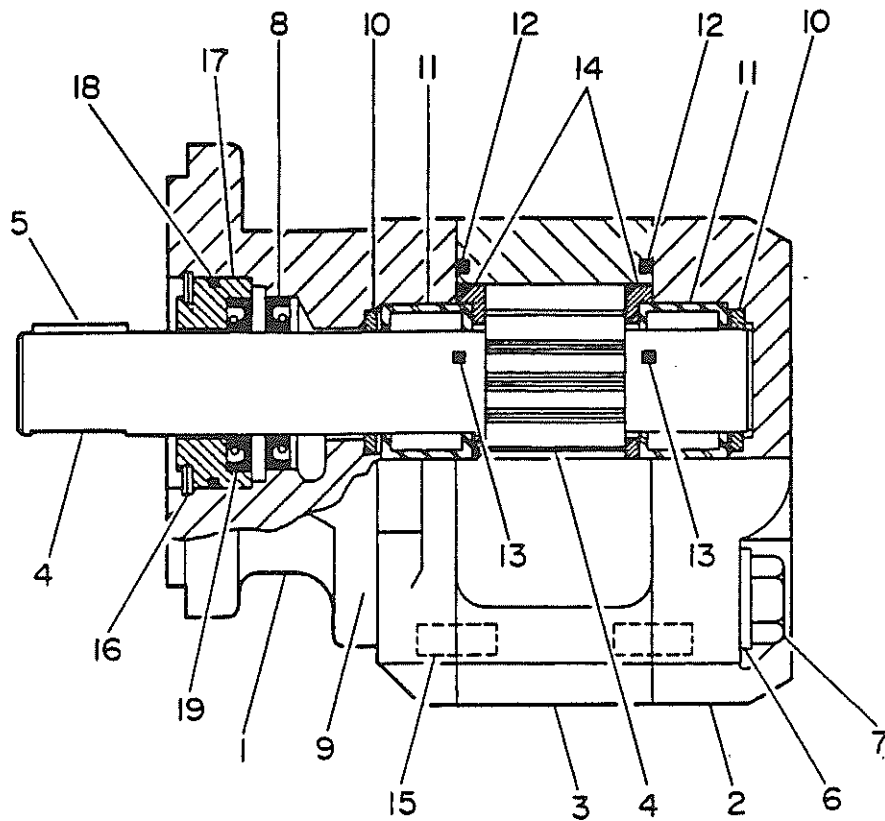
PT# 2050068011 CLAMP, TUBE (1.25")



PD-1446

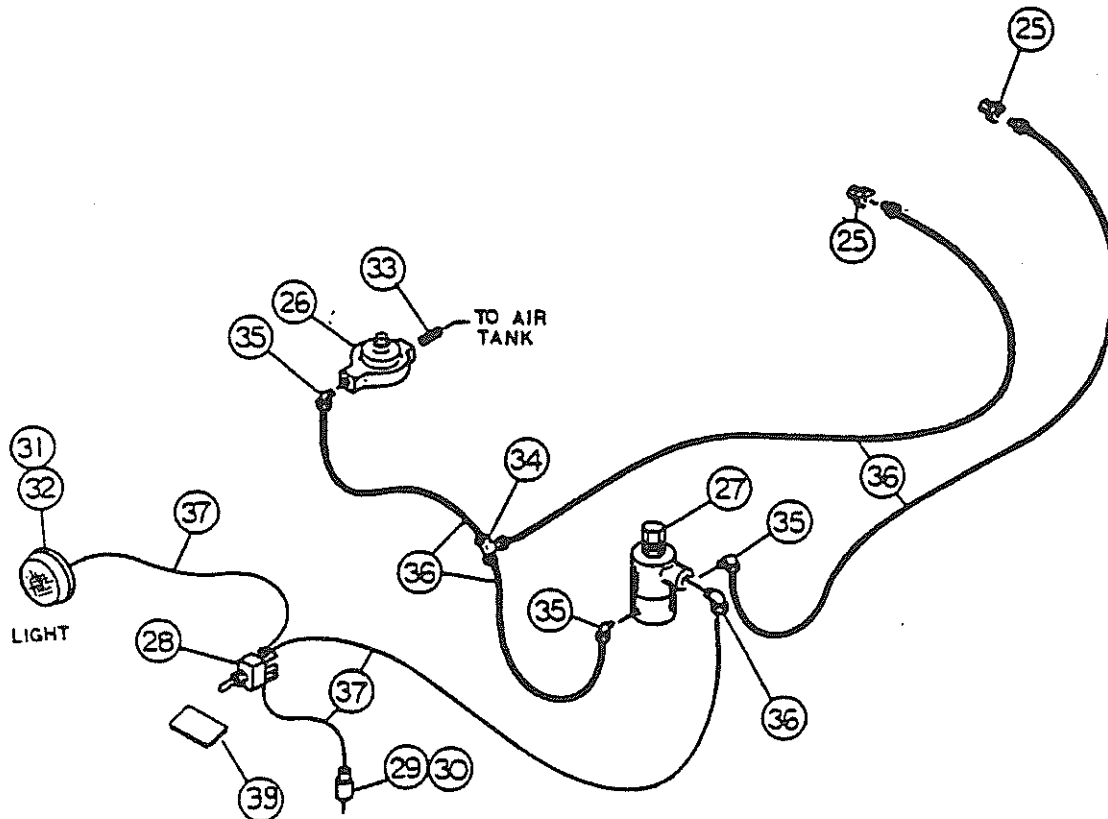
PT# 2102908 CLAMP, TUBE (2.5")

# PUMP ASSEMBLY



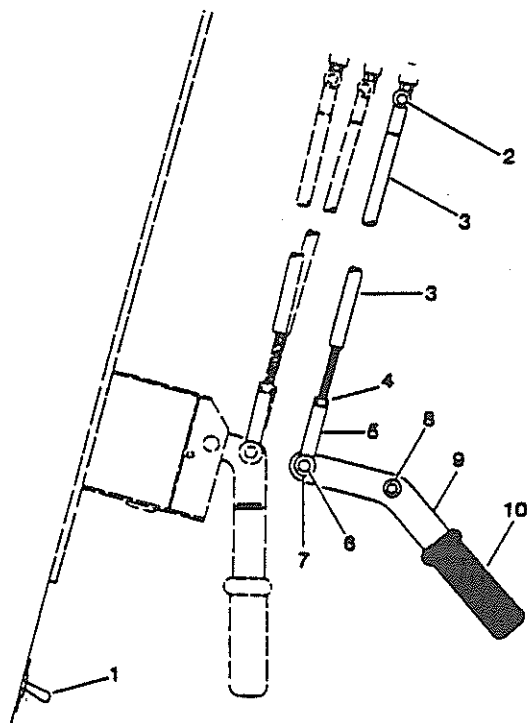
ITEM	PART NO.	DESCRIPTION	(PL-0235A)	QTY.
	2047488000	Pump Assembly Complete		1
1	5505454000	Shaft End Cover		1
2	5505432000	Rear Cover		1
3	5505455000	Gear Housing		1
4	5505431000	Gear Shaft Set		1
5	5505436000	Key		1
6	5505439000	Washer		4
7	5505435000	Cap Screw		4
8	5505425000	Lip Seal		1
9	5505438000	Check Assembly (Not Shown)		2
10	5505456000	Ring Seal		2
11	5505421000	Roller Bearing		4
12	5505426000	Seal		2
13	5505424000	Seal		12
14	5505457000	Thrust Plate		2
15	5505437000	Dowel Pin		4
16	5505458000	Snap Ring		1
17	5505459000	Retaining Ring		1
18	5505460000	"O" Ring		1
19	5501881000	Lip Seal		1

# OPTIONAL DRY VALVE CONTROL KIT



ITEM	PART NO.	DESCRIPTION	(PL-0236A)	QTY.
	2045012000	Dry Valve Control Kit Assembly Complete		1
25	2039675000	Male Connector		2
26	2032611000	Pressure Protection Valve		1
27	2035578000	Electric Valve		1
28	2036981000	Toggle Switch		1
29	1007627000	Fuse Holder		1
30	1030945000	Fuse - 5 Amp.		1
31	1047533000	Lamp - Red		1
32	1061068000	Lamp Surface Mount Kit		1
	G23333000	Screw		4
	G09311000	Hex Nut		4
33	G08063000	Close Nipple		1
34	2029916000	Union Tee		1
35	2029917000	Male Elbow		3
36	1029971010	Nylon Tubing		1
37	1029373010	Wire - 14 Ga.		1
	1007448000	Connector		5
	1030109000	Terminal		4
38	2024929000	Elbow		1
39	1047902000	Pump Switch Decal		1

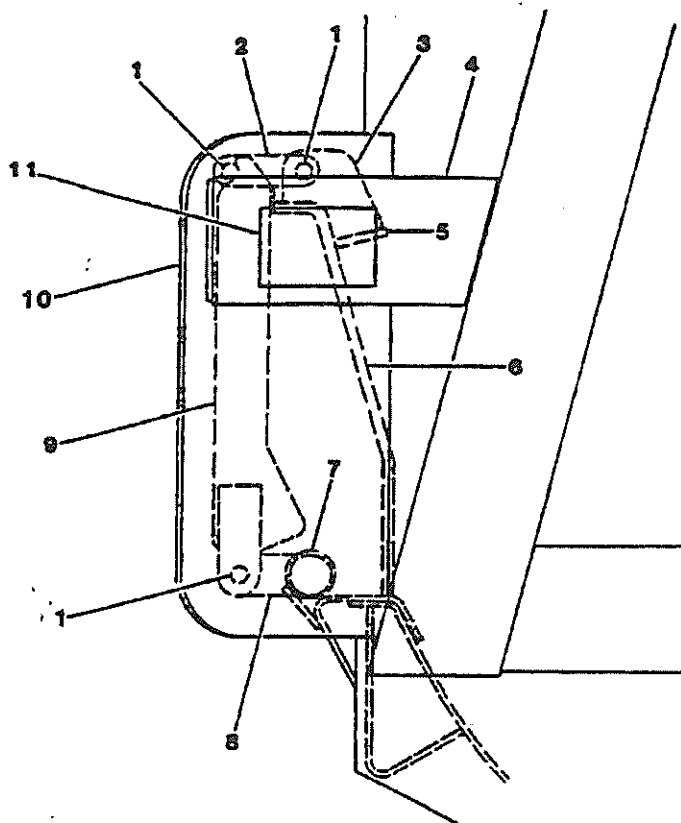
# OPTIONAL CONTAINER DUMPER LEVER CONTROL AND LINKAGE



ITEM	PART NO.	DESCRIPTION	(PL-0242A)	QTY.
1	2036981000	Throttle Switch		1
	1048822000	Throttle Switch Decal		1
2	1017730000	Yoke Pin		1
	G06107000	Cotter Pin		1
3	2101506	Control Rod Assy. (Includes Items 2,4,5 & 6)		1
4	G09127000	Hex Nut		1
5	1017546000	Yoke		1
6	1017545000	Yoke Pin		1
	G06055000	Cotter Pin		1
7	1047254000	Nyliner Bearing		1
8	2048022000	Handle Support Assy.		1
	G39525000	Flat Washer		1
	G09235000	Stop Nut		1
9	2040213000	Handle Assembly		1
10	1010089000	Handle Grip - Black		1

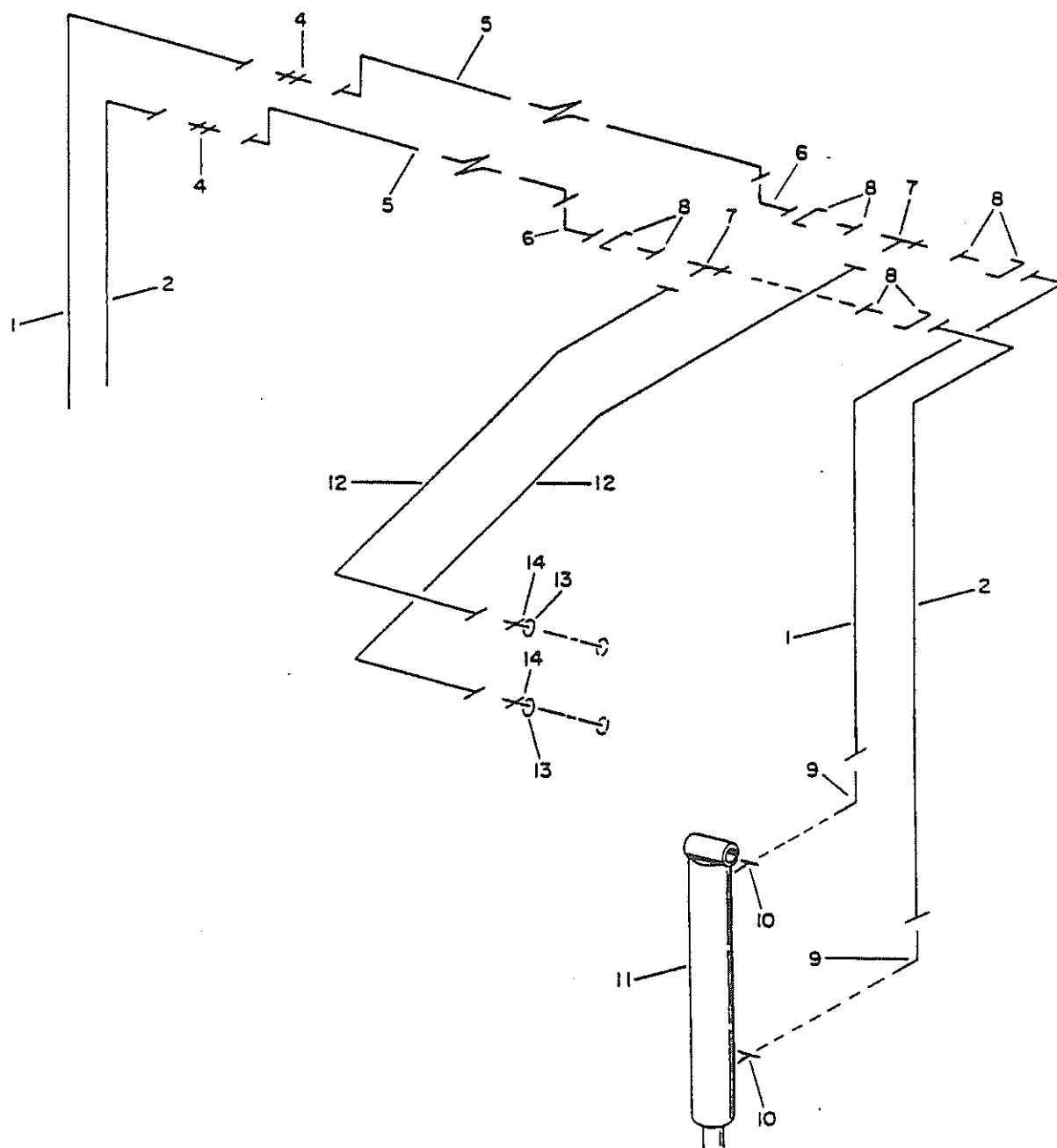


# OPTIONAL HOPPER SILL EXTENSION W\CONTAINER LATCHES



ITEM	PART NO.	DESCRIPTION	(PL-0238A)	QTY.
	2049891000	Hopper Sill Extention W\Container Latches		1
1	1016810036	Pin		6
2	1032007000	Clevis Lock Bars		4
3	1059808000	Upper Tab		2
4	1070713000	Ear Support R.H.		1
	1070714000	Ear Support L.H.		1
	1013218012	Support Cap		2
5	1068596000	Tab Gusset		2
6	1072147000	Pocket		2
7	1017046025	Pipe		1
8	1059807000	Bottom Tab		2
9	2052073000	Latch Assembly		2
10	1070895000	Ear		2
11	1068897000	Caution Decal		2

OPTIONAL HYDRAULIC CONTAINER DUMPER HYDRAULICS W/ 1/4 HOSES

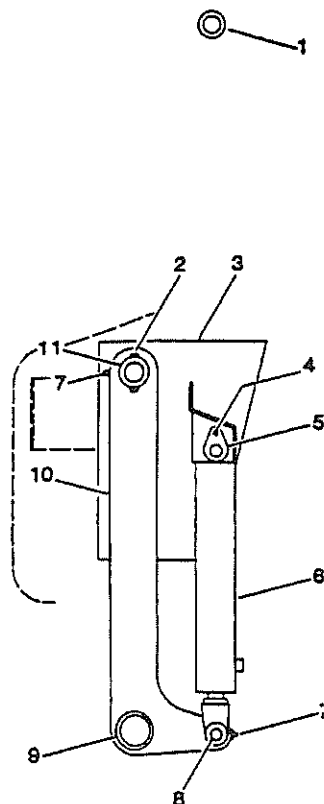


PD-0243

# OPTIONAL HYDRAULIC CONTAINER DUMPER HYDRAULICS W/ 1/4" HOSES

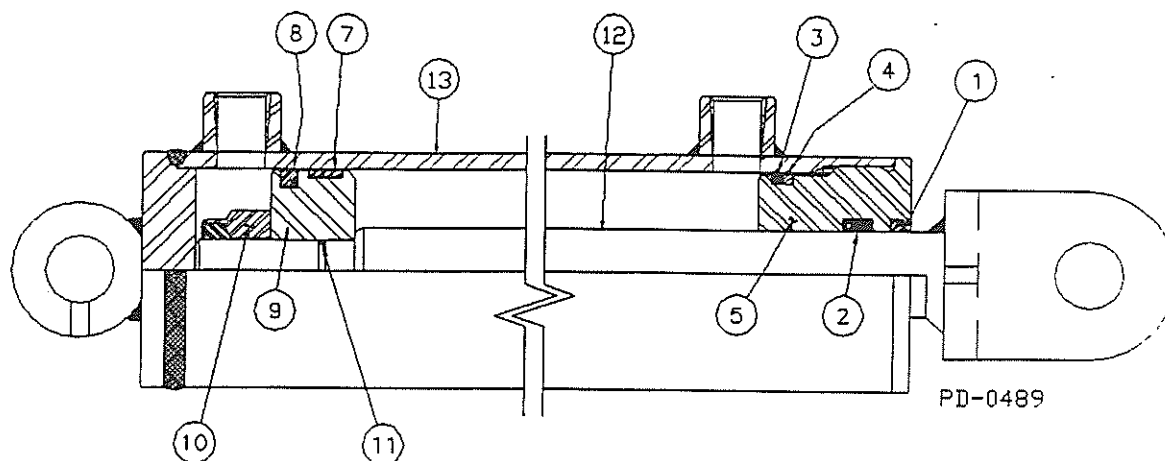
ITEM	PART NO.	DESCRIPTION	(PL-0243A)	QTY.
1	2102540	Oil Hose Assembly		2
2	2102541	Oil Hose Assembly		2
4	2037068000	Bulkhead Union		2
5	2102540	Oil Hose Assembly		2
6	2044319000	Swivel Nut Elbow		2
7	2102018	Bulkhead Tee		2
8	2101946	Reducer		8
9	1037601000	Male Elboq		4
10	G46610000	Reducer Bushing		4
11	2102804	Cylinder Assembly (Model K3015-GDA)		2
12	2102388	Oil Hose Assembly		2
13	5505352000	SAE "O" Ring		2
14	1038435000	Str. Thd. Connector (Includes "O" Ring)		2

# OPTIONAL HYDRAULIC CONTAINER (1 - 3 YARD) DUMPER



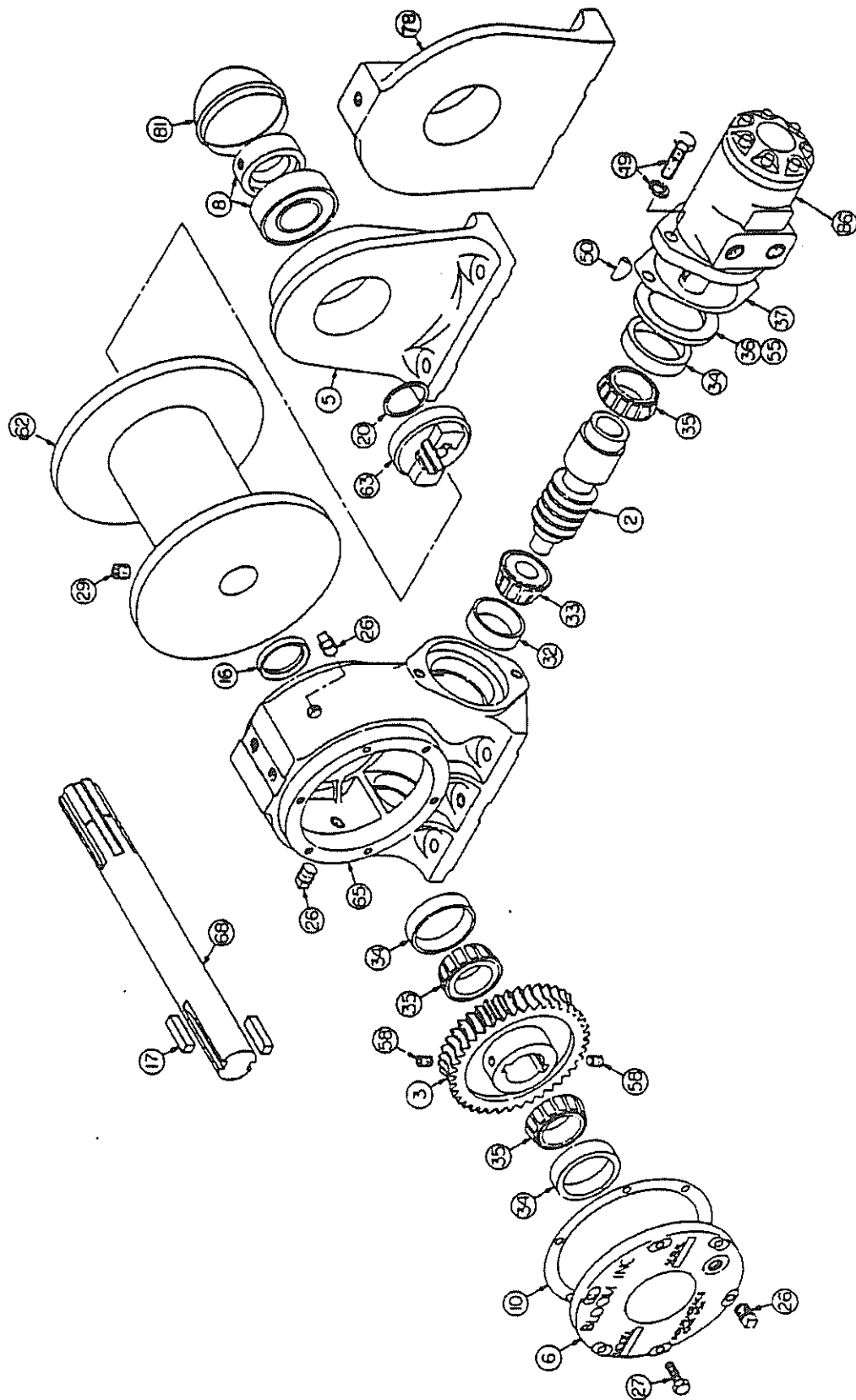
ITEM	PART NO.	DESCRIPTION	(PL-0239B)	QTY.
	2102069	Hydraulic dumper (1-3 Yard) Kit Complete Includes 2049891000 Hopper Sill Extension		1
1	1017044027	Container Retainer Pipe		1
2	G18135000	Cap Screw		2
	G39250000	Lock Washer		2
	G09127000	Hex Nut		2
3	2048768000	Side Plate Assembly R.H.		1
	2048767000	Side Plate Assembly L.H.		1
4	G18130000	Cap Screw		2
	G39250000	Lock Washer		2
	G09127000	Hex Nut		2
5	2035736000	Cylinder Pivot Pin		2
6	2102804	Cylinder Assembly (Model K3015-GDA)		2
7	G07004000	Grease Fitting		2
8	2035735000	Cylinder Pivot Pin		2
	G06212000	Cotter Pin		2
9	1019448012	Container Dumper Tube		1
10	2044695000	Lift Arm Assembly		2
11	10-32005	Trunnion Collar		2

**OPTIONAL CYLINDER ASSEMBLY (MODEL K3015-GDA)  
(HYDRAULIC CONTAINER (1 - 3 YARD) DUMPER)**



ITEM	PART NO.	DESCRIPTION	(PL-0489)	QTY.
	2102804	Cylinder Assembly Complete (Model K3015-GDA)		1
1	*2102152	Rod Wiper		1
2	*2102151	Rod Seal		1
3	*2101303	O-Ring		1
4	*2101244	Back-Up Ring		1
5	2102150	Stuffing Box		1
7	*2101296	Wear Bearing		2
8	*2101256	Piston Seal		1
9	2103203	Piston		1
10	2103202	Lock Nut		1
11	*2102156	O-Ring		1
12	2103201	Plunger Rod Assembly		1
13	2103200	Casing Assembly		1
	*2102079	Seal Kit Assembly		1

# OPTIONAL 10,000# WINCH ASSEMBLY



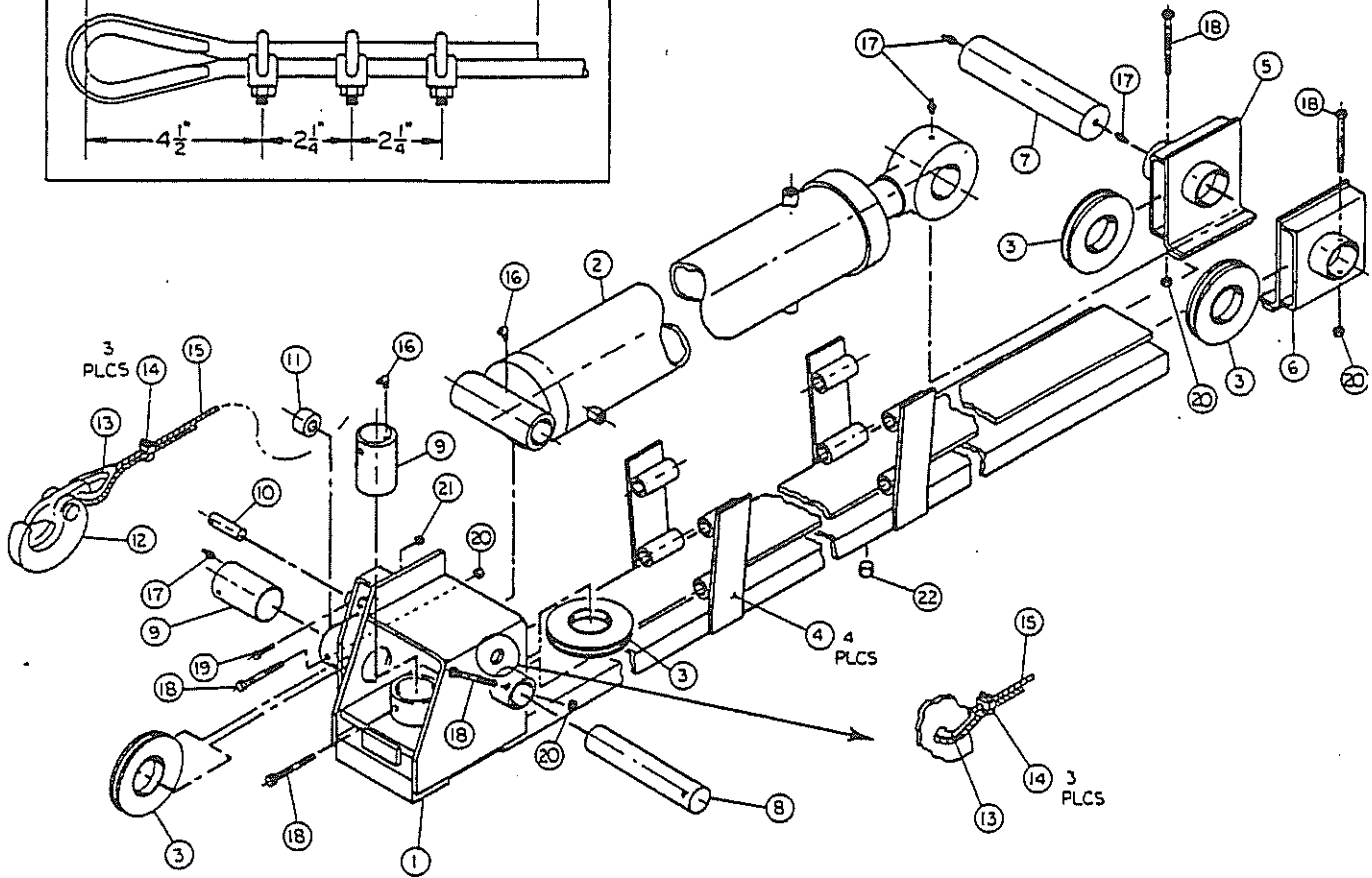
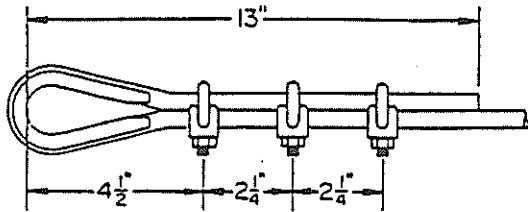
# OPTIONAL 10,000# WINCH ASSEMBLY

ITEM	PART NO.	DESCRIPTION (PL-0705B)	QTY.
	2044389000	Winch Assembly - Complete	1
2	5505713000	Worm Shaft 20:1 Ratio (Std.)	1
3	5505701000	Bronze Gear 20:1 Ratio (Std.)	1
5	5505945000	End Housing	1
6	5505703000	Gear Case Cover	1
8	5505704000	End Bearing	1
10	5505714000	Gear Case Cover Gasket Kit	1
16	5505705000	Oil Seal	1
17	5505706000	Key	2
20	5505707000	External Retaining Ring	1
26	5505715000	Pipe Plug	3
27	5505716000	Cap Screw	6
29	5505717000	Socket Set Screw	1
32	5505718000	Bearing Cup	1
33	5505719000	Bearing Cone	1
34	5505720000	Bearing Cup	3
35	5505721000	Bearing Cone	3
36	5505722000	Spacer	1
37	5505723000	Motor Gasket Kit	1
49	5505724000	Cap Screw & LockWasher	2
62	5505708000	7" Drum W/8" Flange	1
63	5505709000	Drive Dog	1
65	5505710000	Gear Case	1
68	5505711000	Shaft	1
78	5505702000	End Housing	1
81	5506030000	Galvanized End Cap	1
86	5505712000	Motor Assembly	1

# OPTIONAL REEVING CYLINDER CONTAINER HOIST

## CABLE CLAMP INSTALLATION

Clamp Base Must Be On Long End Of Cable  
As Shown. Torque To 18-1/2 Ft. Lbs.



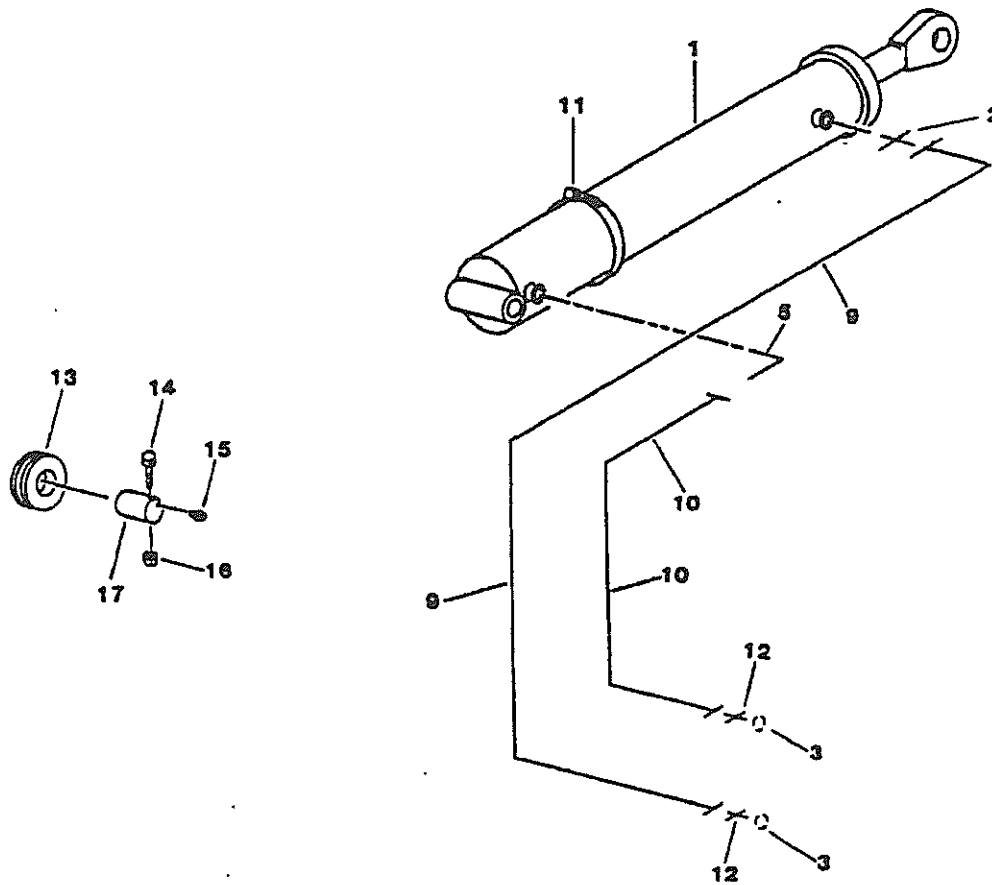
PD-0241



# OPTIONAL REEVING CYLINDER CONTAINER HOIST

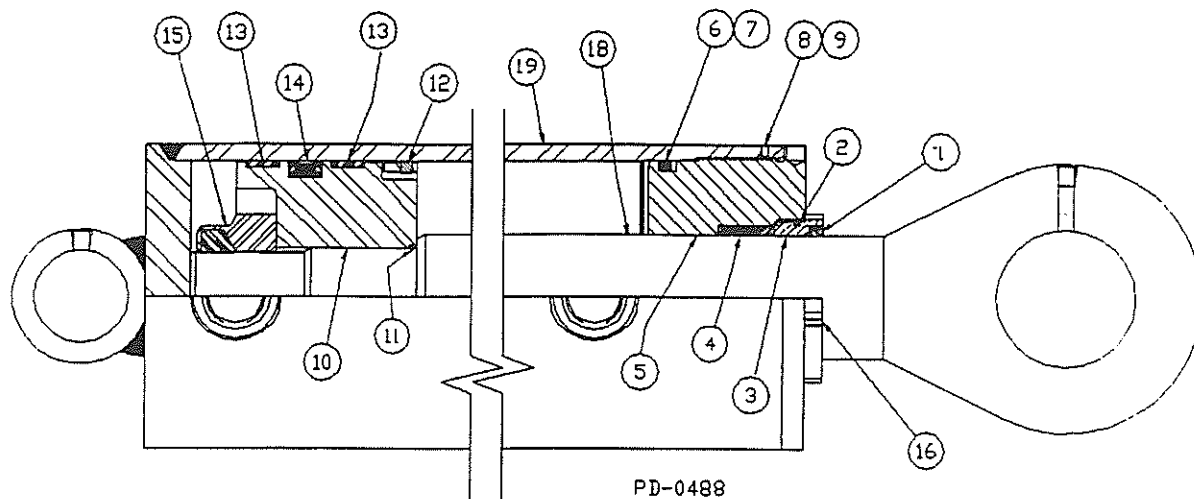
ITEM	PART NO.	DESCRIPTION (PL-0241C)	QTY.
	2102083	Reeving Cylinder Container Hoist Kit Complete	1
1	2048826000	Sheave Bracket And Rail Assembly	1
2	2102830	Cylinder Assembly (Model K6060-CDA)	1
	2114667	Cylinder Assembly (Model C6060-DDA)	1
3	2045499000	Sheave Assembly	4
	1061739000	Sheave Bearing Only	4
4	2045505000	Rope Guide Assembly	1
5	2045629000	Sheave Bracket Assembly	1
6	2045503000	Sheave Bracket Assembly	1
7	1061757000	Sheave Pin	1
8	1061758000	Cylinder Pin	1
9	1061756000	Sheave Pin	2
10	1061759000	Roller Pin	1
11	1061760000	Roller	1
12	1043368000	Latchlok Hook	1
13	1033788000	Thimble	2
14	2039049000	Wire Rope Clamp	6
15	1061761012	Wire Rope (18' Containers)	1
16	G07022000	Grease Zerk	2
17	G07004000	Grease Zerk	4
18	G18218000	Cap Screw	5
19	G18108000	Cap Screw	1
20	G09236000	Stop Nut	5
21	G09136000	Stop Nut	1

# OPTIONAL REEVING CYLINDER CONTAINER HOIST HYDRAULICS



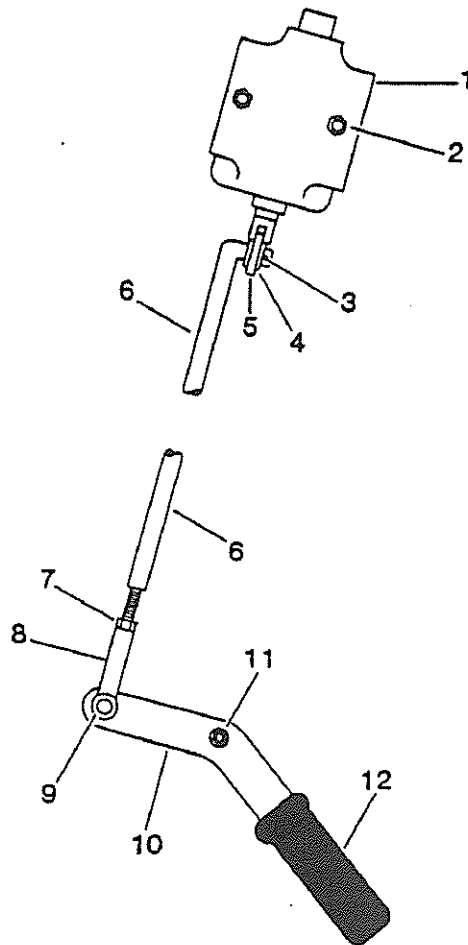
ITEM	PART NO.	DESCRIPTION	(PL-0244B)	QTY.
1	2102830	Cylinder Assembly (Model K6060-CDA)		1
	2114667	Cylinder Assembly (Model C6060-DDA)		1
2	1037058000	Male Connector		1
3	5505352000	SAE 'O' Ring		2
5	1047472000	Swivel Nut Elbow		1
9	2102408	Oil Hose Assembly		1
10	2101653	Oil Hose Assembly		1
11	1038453000	Hose Clamp		1
12	1007813000	Str. Thd. Connector (Includes 'O' Ring)		2
13	2045499000	Sheave Assembly		1
	1061739000	Sheave Bearing - Only		1
14	G18243000	Cap Screw		1
15	G07004000	Grease Fitting		1
16	G09235000	Stop Nuts		1
17	1061756000	Sheave Pin		1

# CYLINDER ASSEMBLY (MODEL K6060-CDA)



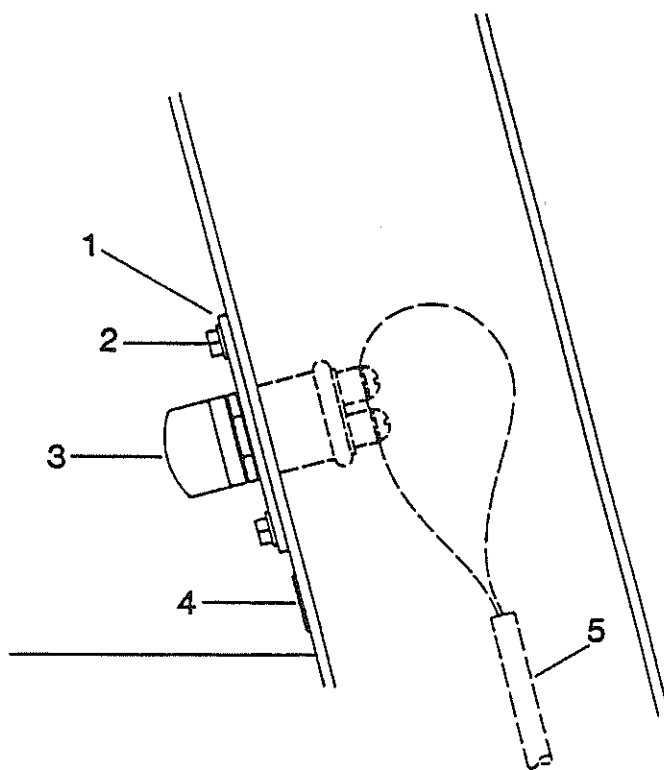
ITEM	PART NO.	DESCRIPTION	(PL-0488)	QTY.
	2102830	Cylinder Assembly Complete (Model K6060-CDA)		1
1	*2103213	Wiper Ring		1
2	*2101290	Nylon Plug		1
3	2103212	Packing Nut		1
4	*2103211	Packing Assembly		1
5	2103210	Stuffing Box		1
6	*2101308	O-Ring Seal		1
7	*2101292	Back-Up Ring		1
8	*2101284	Nylon Ball		1
9	2101286	Set Screw		1
10	2103209	Piston		1
11	*2101310	O-Ring Seal		1
12	*2103208	Piston Ring		1
13	*2103207	Piston Bearing Ring		2
14	*2101266	Piston Seal		1
15	2101289	Elastic Stop Nut		1
16	2102770	Set Screw		2
18	2103206	Plunger Assembly		1
19	2103205	Casing Assembly		1
	*2103204	Seal Kit Assembly		1

# OPTIONAL CONTAINER DUMPER SELECTOR VALVE AND CONTROL PAD



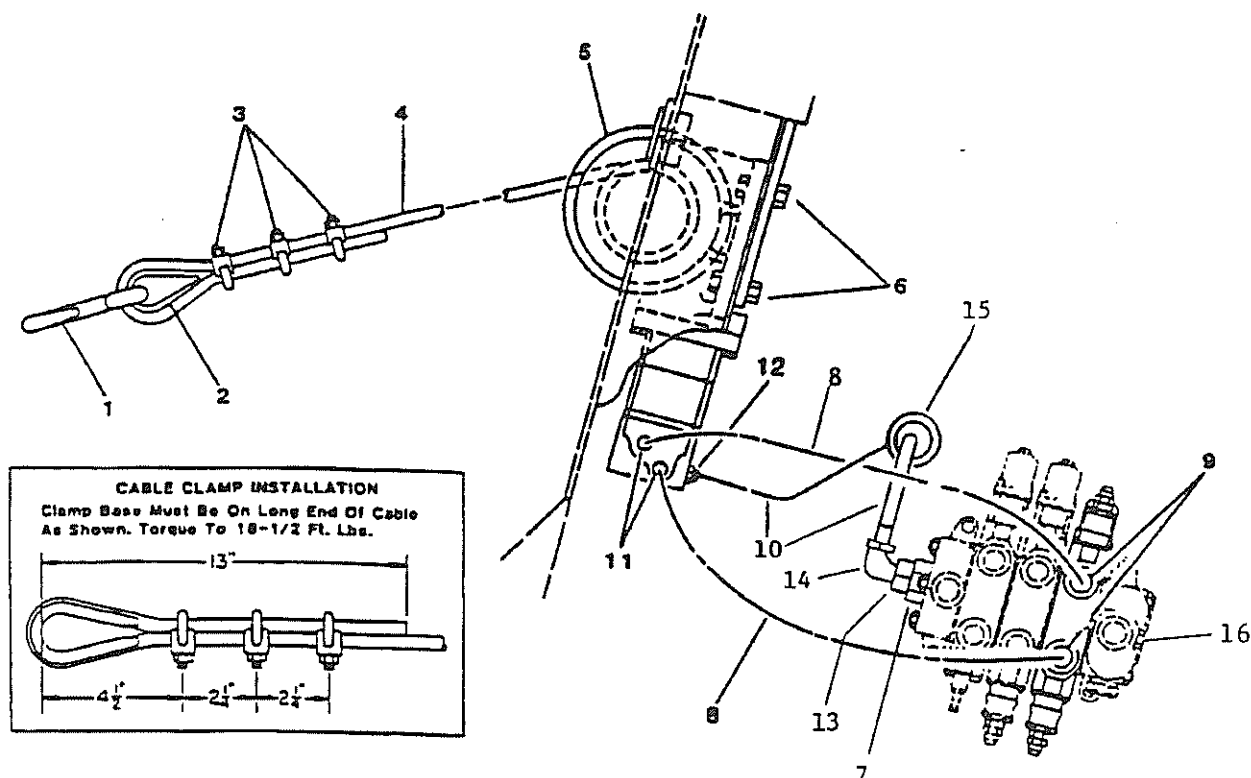
ITEM	PART NO.	DESCRIPTION	(PL-0240A)	QTY.
1	2037015000	Selector Valve Assembly		1
2	G18137000	Hex Hd. Cap Screw		2
	G09135000	Center Nut		2
3	G06107000	Cotter Pin		2
4	G39525000	Flat Washer		1
5	1043133000	Control Handle		1
	1017212000	Pivot Pin		1
	G06107000	Cotter Pin		1
6	*107005000	Valve Rod		1
7	*G09127000	Hex Nut		1
8	*1017546000	Yoke		1
9	*1017545000	Yoke Pin		1
	*G06055000	Cotter Pin		1
10	2040213000	Handle Assembly		1
11	G09235000	Stop Nut		1
	G39525000	Flat Washer		1
12	1010089000	Handle Grip - Black		1
	*2049651000	Control Rod Assembly		1

# OPTIONAL STREETSIDE BUZZER ASSEMBLY



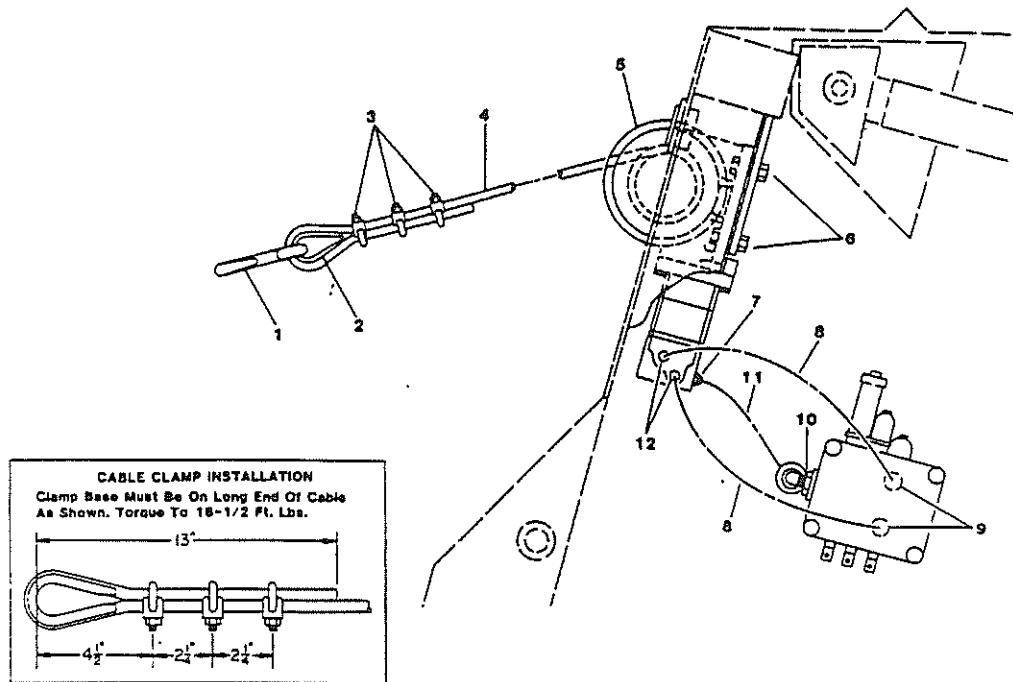
ITEM	PART NO.	DESCRIPTION	(PL-0230A)	QTY.
	2040114000	Streetside Buzzer Kit Complete		1
1	1038717000	Mounting Plate		1
2	1037008000	Self Drilling Fastener		2
3	2023854000	Push Button Switch Assembly		1
4	1053688000	Decal - Buzzer		1
5	2047383000	Wiring Harness		1

**OPTIONAL 10,000 OVERHEAD WINCH CONTAINER DUMPER ASSEMBLY**  
**(W/COMMERCIAL SECTION VALVE PT. # 20-52290)**  
**STARTING WITH SERIAL NO. 310424**



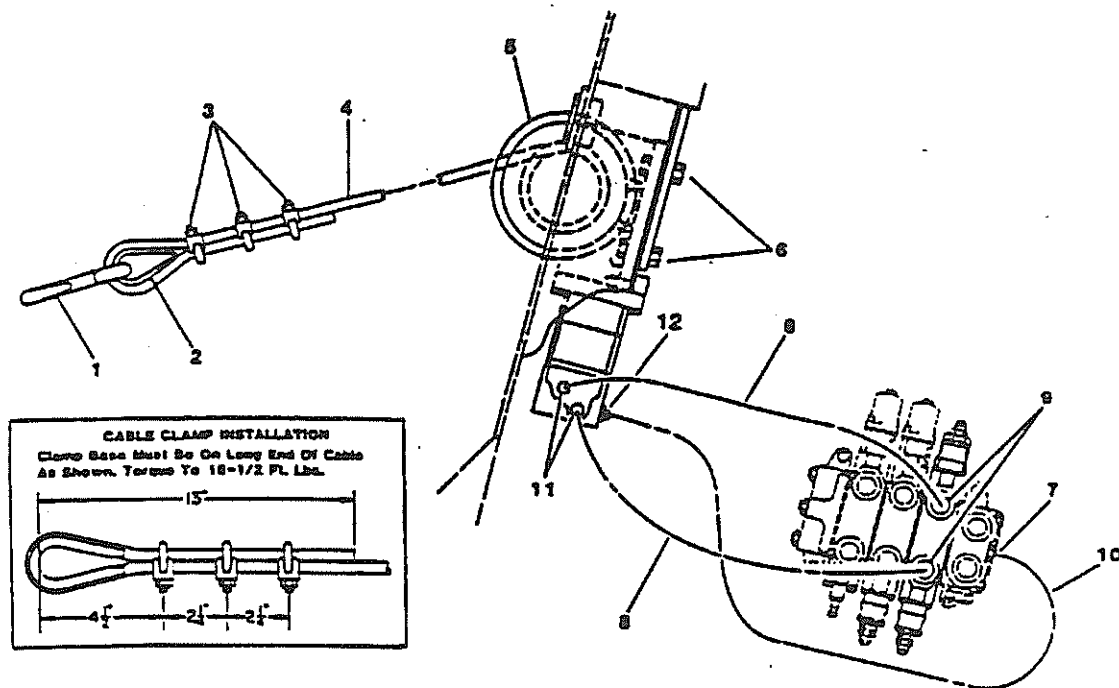
ITEM	PART NO.	DESCRIPTION	(PL-0555A)	QTY.
1	1043368000	Hook		1
2	1008196000	Thimble		1
3	1008198000	Wire Rope Clamp		3
4	1020931015	Wire Rope		1
5	2044389000	Winch Assembly		1
6	G18306000	Cap Screw		6
	G39450000	Lock Washer		6
7	2045087026	Reducer Expander		1
8	2102386	Oil Hose Assembly		2
9	1038435000	Str. Thd. Connector (Includes "O" Ring)		2
	5505352000	SAE "O" Ring		2
10	2103107	Oil Hose Assembly		1
11	2102074	Str. Thd. Connector (Includes "O" Ring)		2
	5505351000	SAE "O" Ring		2
12	2035296000	Straight Thread Elbow		1
13	2044396000	Tapped Plug		1
14	1037601000	Male Elbow		1
15	2043040000	Grommet		1
16	1058838014	Plug		1

**OPTIONAL 10,000# OVERHEAD WINCH CONTAINER DUMPER ASSEMBLY  
(W/HUSCO MONOBLOCK VALVE PT. # 20-44386)**



ITEM	PART NO.	DESCRIPTION	(PL-0554A)	QTY.
1	1043368000	Hook		1
2	1008196000	Thimble		1
3	1008198000	Wire Rope Clamp		3
4	1020931015	Wire Rope		1
5	2044389000	Winch Assembly		1
6	G18306000	Cap Screw		6
	G39450000	Lock Washer		6
7	2035296000	St. Thread Elbow		1
8	2028515013	Oil Hose Assembly		2
9	1038435000	St. Thread Connector		2
10	2044396000	Tapped Plug		1
	G08054000	St. Elbow		1
	2043040000	Grommet		1
11	2103107	Oil Hose Assembly		1
12	1017778000	St. Adapter		2

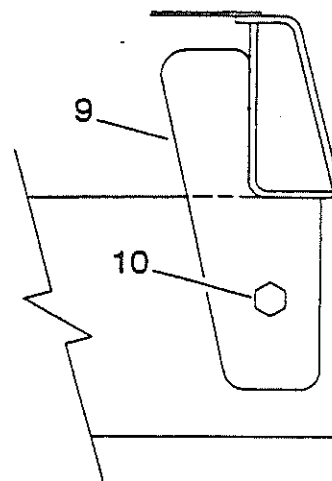
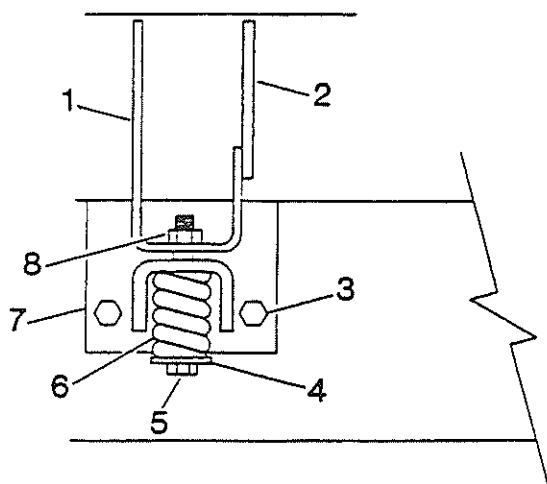
**OPTIONAL 10,000 OVERHEAD WINCH CONTAINER DUMPER ASSEMBLY  
(W/HUSCO SECTION VALVE PT. # 20-48467)**



ITEM	PART NO.	DESCRIPTION	(PL-0406A)	QTY.
1	1043368000	Hook		1
2	1008196000	Thimble		1
3	1008198000	Wire Rope Clamp		3
4	1020931015	Wier Rope		1
5	2044389000	Winch Assembly		1
6	G18306000	Cap Screw		6
	G39450000	Lock Washer		6
7	2044708000	Straight Thread Connector		2
8	2102386	Oil Hose Assembly		2
9	1038435000	Str. Thd. Connector (Includes "O" Ring)		2
	5505352000	SAE "O" Ring		2
10	2102516	Oil Hose Assembly		1
11	2102074	Str. Thd. Connector (Includes "O" Ring)		2
	5505351000	SAE "O" Ring		2
12	2035296000	Straight Thread Elbow		1

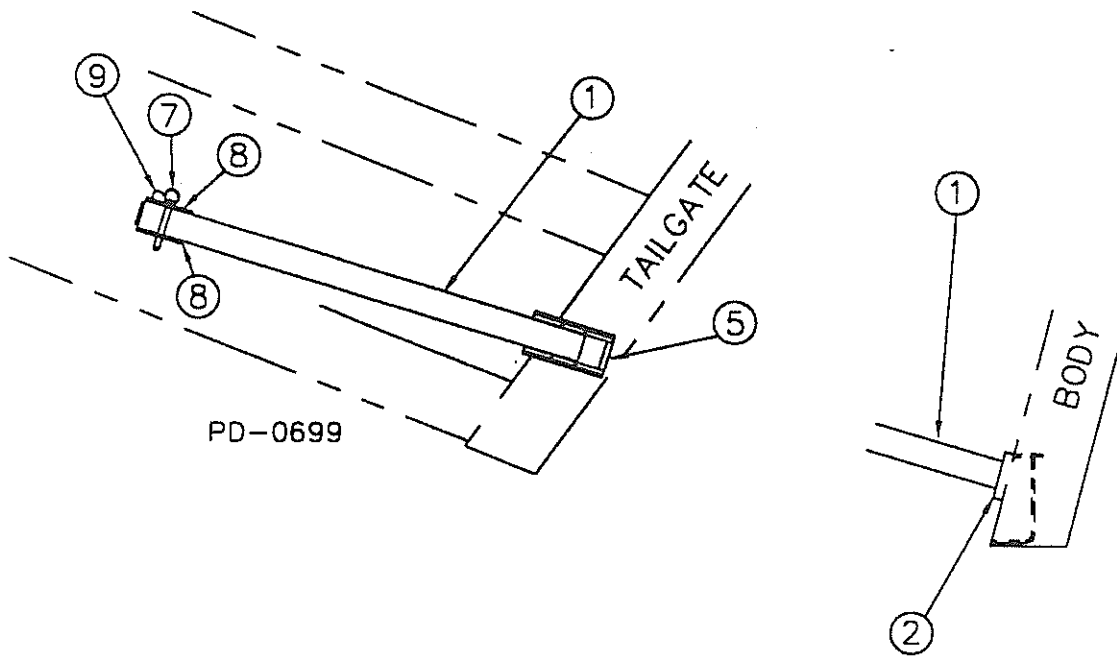


## BODY MOUNTING PARTS



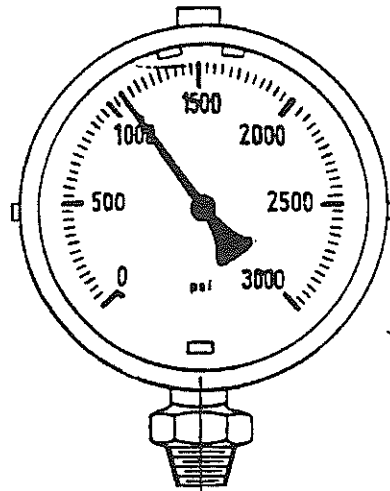
ITEM	PART NO.	DESCRIPTION	(PL-0221B)	QTY.
1	1068291000	Mounting Loop		4
2	1068290000	Mounting Plate		4
3	G18333000	Hex Hd. Cap Screw		12
	G09335000	Hex Lock Nut		12
4	1065279000	Heavy Washer		4
5	G18401000	Hex Hd. Cap Screw		4
6	1048795000	Spring		4
7	2049871000	Tie Bracket Assembly		4
8	G09385000	Elastic Stop Nut		4
9	1070524000	Tie Plate R.H.		1
	1070525000	Tie Plate L.H.		1
10	1070558000	Hex Hd. Cap Screw		2
	G39600000	Lock Washer		2
	G09475000	Hex Nut		2

# TAILGATE PROP

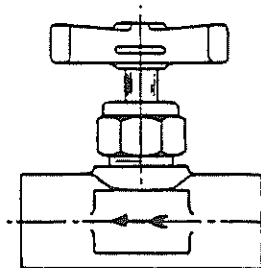


ITEM	PART NO.	DESCRIPTION	(PL-0699B)	QTY.
	2052051000	Tailgate Prop Assembly - Complete		1
1	2039260000	Prop Assembly		2
2	1072123000	Prop Pocket		2
5	1020961010	Bar		2
7	2044850000	Pin Assembly		2
8	2103739000	Bracket		4
9	2109921	Jack Chain Assembly		2

OPTIONAL PRESSURE GAGE KIT (PART NO. 2030113000)  
(PL-0410A)



PART NO. 2030114000  
0-3000 P.S.I. 2-1/2" LIQUID FILLED PRESSURE GAGE



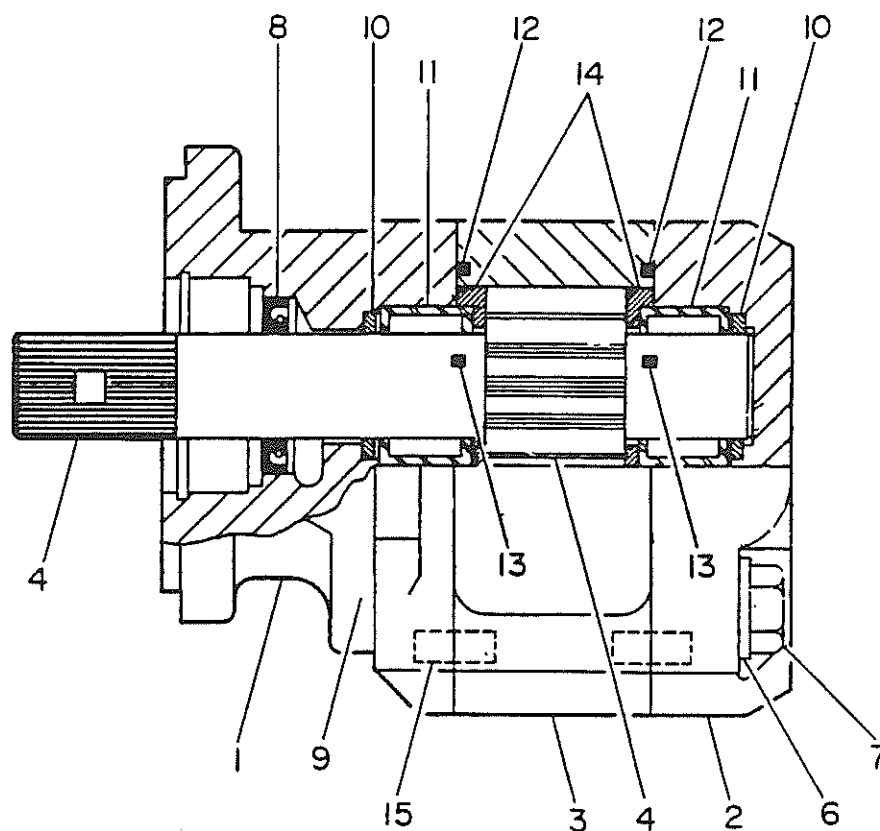
PART NO. 1027245000 NEEDLE VALVE



PART NO. G46521000 H.D. NIPPLE

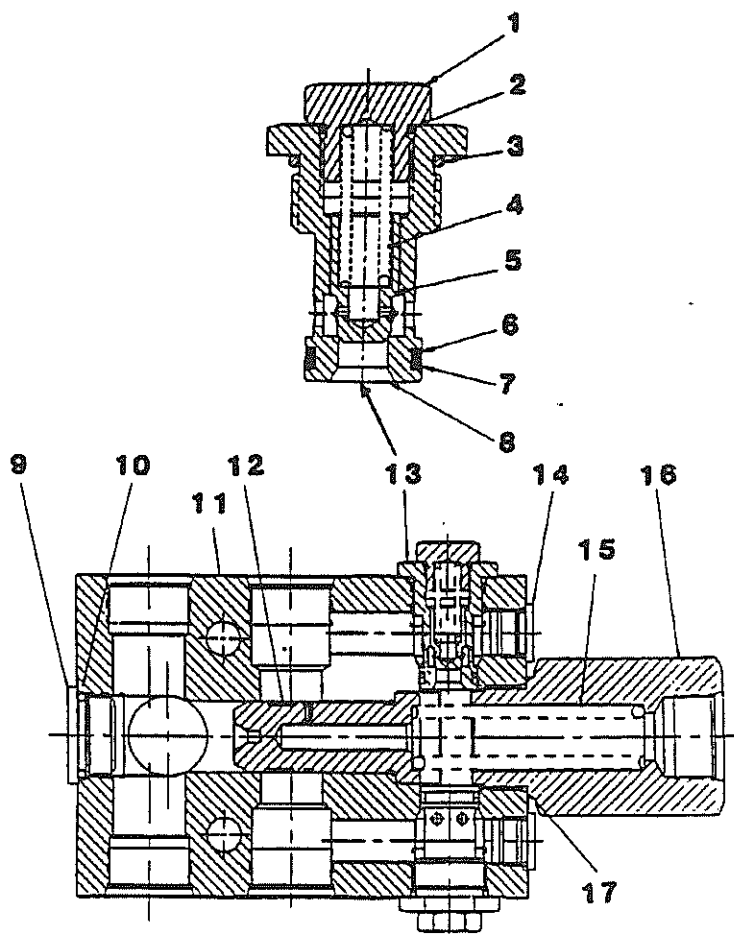
# PUMP ASSEMBLY - PART NO. 2048669000

(27 G.P.M.)



ITEM	PART NO.	DESCRIPTION	(PL-0219A)	QTY.
	2048669000	Pump Assembly Complete		1
1	5505450000	Shaft End Cover		1
2	5505432000	Rear Cover		1
3	5505451000	Gear Housing		1
4	5505452000	Gear Shaft Set		1
6	5505439000	Washer		4
7	5505453000	Cap Screw		1
8	5505425000	Lip Seal		1
9	5505438000	Check Assembly (Not Shown)		2
10	5505423000	Ring Seal		2
11	5505421000	Roller Bearings		4
12	5505426000	Seal		2
13	5505424000	Seal		12
14	5505422000	Thrust Plate		2
15	5505437000	Dowel Pin		4

# REGENERATION VALVE ASSEMBLY



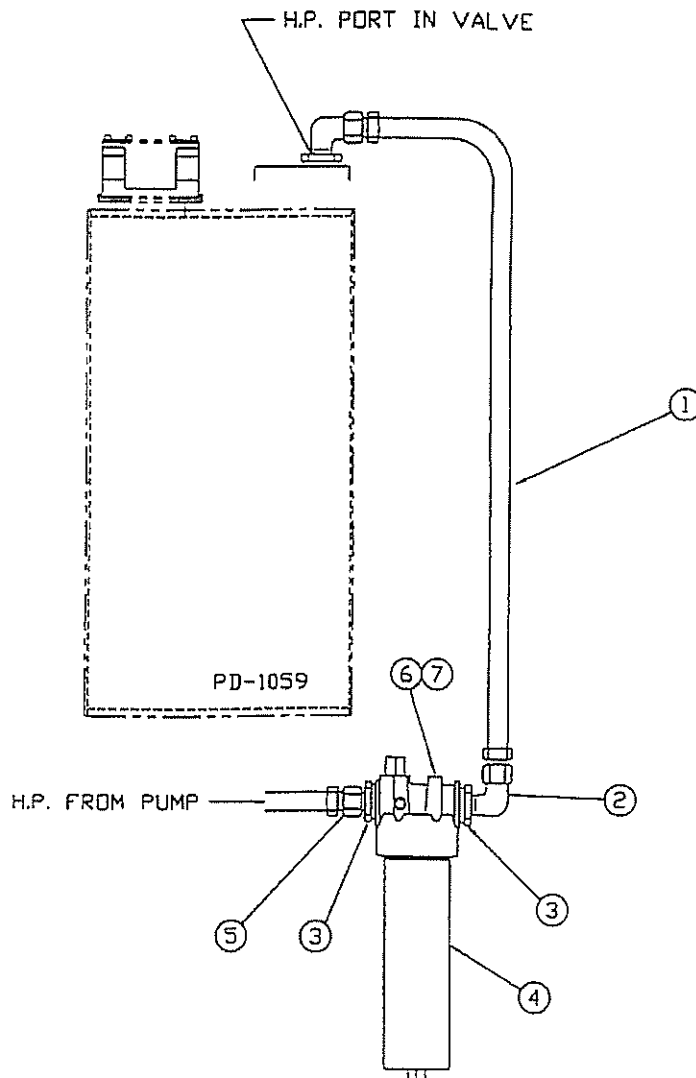
ITEM	PART NO.	DESCRIPTION	(PL-0770)	QTY.
	2101021	Regeneration Valve Assembly		1
1	2105233	Plug		2
2	2105243	O-Ring		2
3	2105247	O-Ring		2
4	N/A FOR SERVICE	Spring		2
5	N/A FOR SERVICE	Poppet		2
6	2105242	O-Ring		2
7	2105246	Back-Up Ring		2
8	N/A FOR SERVICE	Valve Seat		2
9	2105234	Plug		1
10	2105244	O-Ring		1
11	2105236	Body		1
12	2105237	Spool		1
13	2105248	Check Valve Assembly		2
14	2105235	Plug		2
15	2105226	Spring		1
16	2105227	Plug		1
17	2105228	O-Ring		1

[illegible]

# KICKOUT FOR 2052290000 REAR CONTROL VALVE

ITEM	PART NO.	DESCRIPTION	(PL-0645-W)	QTY.
1	2106496	Spring		1
2	2106494	Spring Retainer		2
3	2103993	Retaining Plate		1
4	2106492	Pin		1
5	2106493	Detent Sleeve		1
6	2102660	Seal Kit		1
7	2106486	Spring Seat		1
8	2106498	Spring R/V		1
9	2106485	Poppet R/V		1
10	2106484	Seat R/V		1
11	2106487	Piston		1
12	2106490	Ball		4
13	2106488	Detent Poppet		1
14	2106497	Detent Spring		1
15	2106495	Spacer Tube		2
16	2106491	Stripper Bolt		1
17	2106489	Adjustment Screw		1
18	2103537	Grommet, Plug		1
19	2114839	Screw		2
20	2114838	End Cap		1
	2114840	Kit, Service (Includes Items 18, 19 & 20)		1

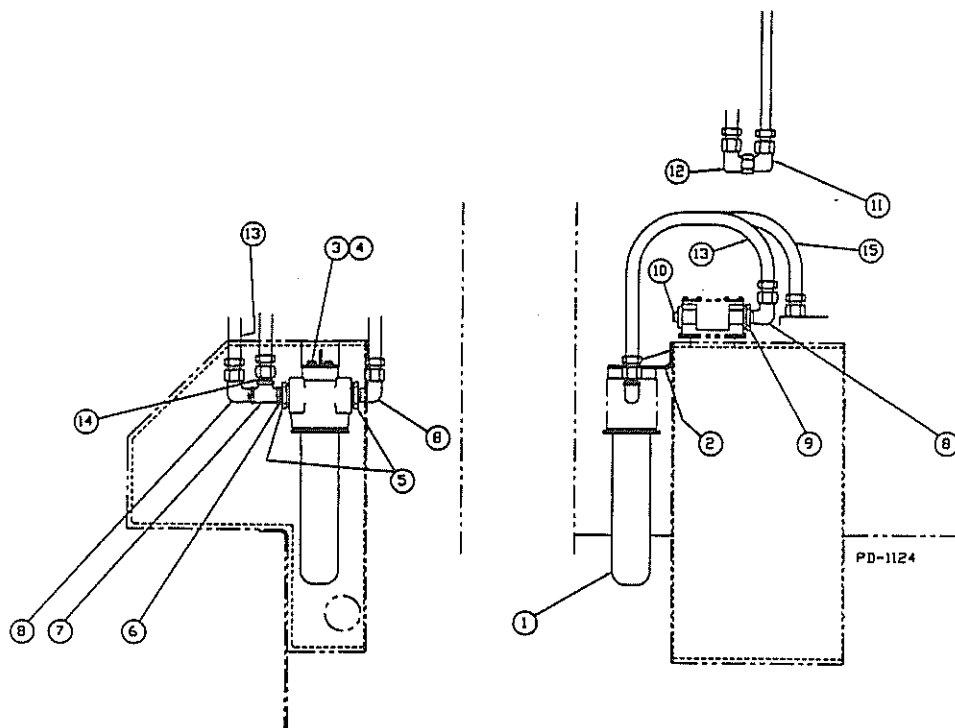
# OPTIONAL HIGH PRESSURE FILTER KIT



ITEM	PART NO.	DESCRIPTION	(PL-1059)	QTY
	2103387	High Pressure Filter Kit Complete		1
1	2102413	Oil Hose Assembly		1
2	1007814000	Straight Thread Connector		1
3	1037976000	Reducer Expander		2
4	2052354000	Filter Assembly		1
	2101454	Dirt Alarm & Cable Assembly - Only		1
	1072561000	Element - Only		1
	2101992	'O' Ring - Only		1
	2101993	Back-Up Ring - Only		1
5	1007813000	Straight Thread Connector		1
6	1072571000	Mounting Bracket		1
7	1009992000	Hex Hd. Cap Screw		4

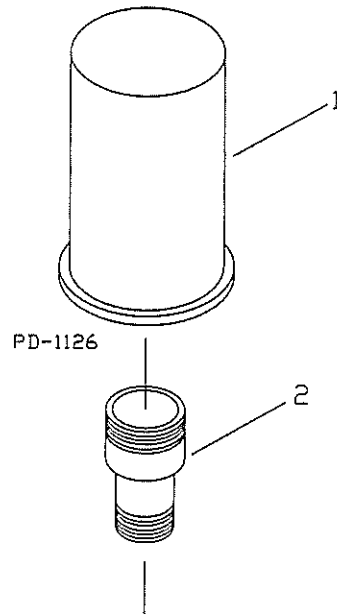


## OPTIONAL PALL FILTER KIT



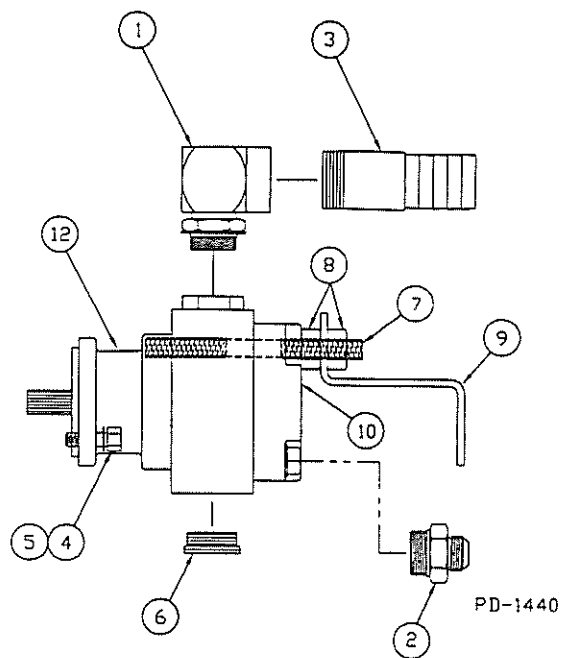
ITEM	PART NO.	DESCRIPTION	(PL-1124)	QTY
	2103802	Pall Filter Kit Assembly - Complete		1
1	2049653000	Filter Assembly		1
	5505948000	Filter Element - Only		1
2	2052285000	Bracket Assembly		1
3	G18202000	Hex Hd. Cap Screw		4
4	G39350000	Lock Washer		4
5	G08438000	Reducer Bushing		2
6	G08268000	Close Nipple		3
7	G08261000	Pipe Tee		1
8	1007834000	Male Elbow		3
9	G08387000	Reducer Bushing		1
10	G08358000	Pipe Plug		1
11	1037321000	Union Elbow		1
12	1047470000	Swivel Nut Elbow		1
13	2102041	Oil Hose Assembly		1
14	1007832000	Male Connector		1
15	2102548	Oil Hose Assembly		1
16	2107939	Oil Hose Assembly		1
17	2101104	Double Clamp		2

## OPTIONAL PALL AIR FILTER/BREATHER KIT



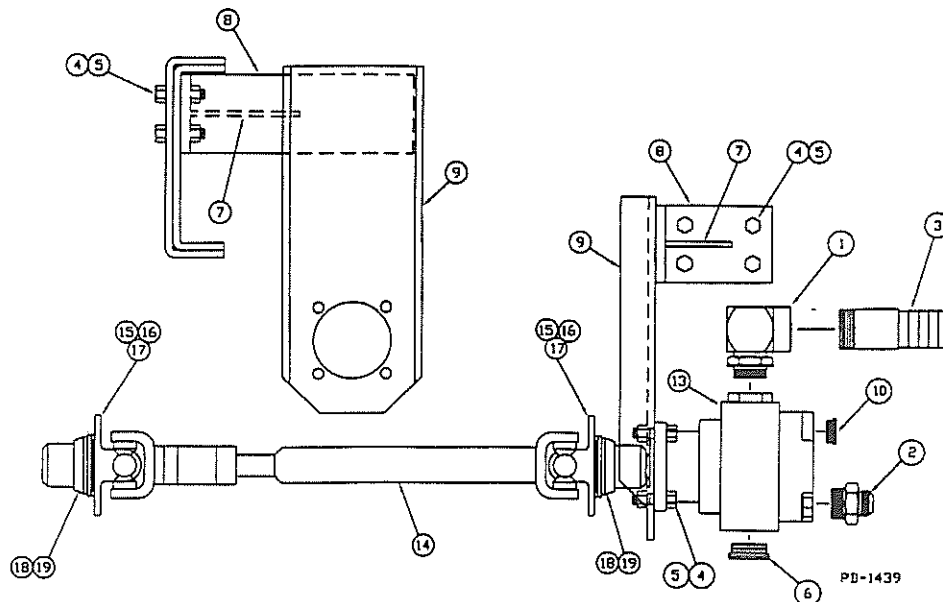
ITEM	PART NO.	DESCRIPTION	(PL-1126)	QTY.
	2052324000	Pall Air Filter/Breather Kit - Complete		1
1	1068600000	Air Filter/Breather		1
2	1068599000	Adapter		1

## Kit, Direct Mount Pump



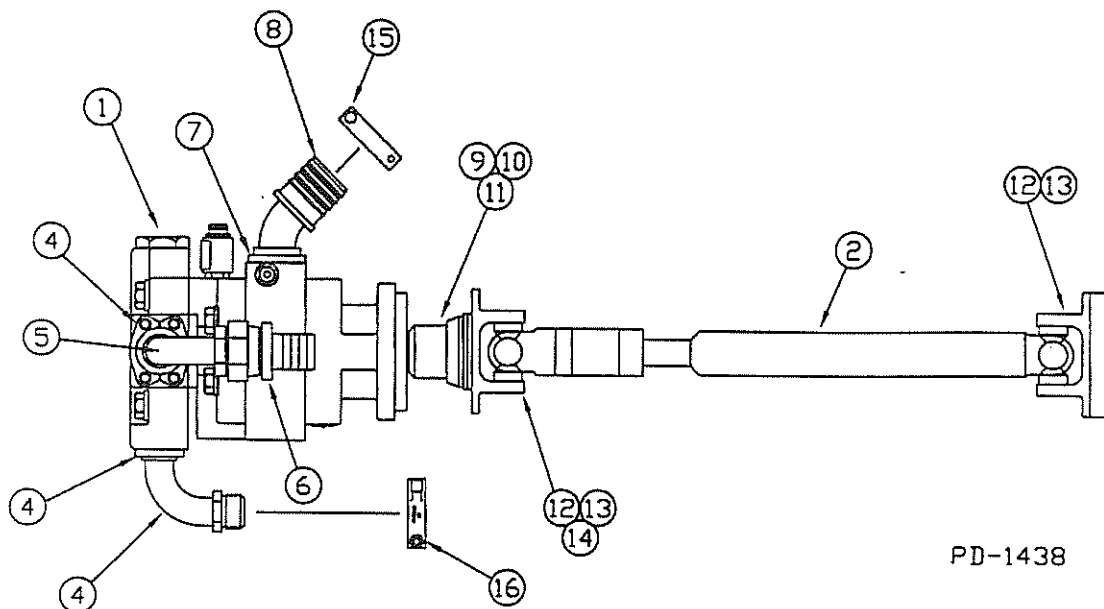
ITEM	PART NO.	DESCRIPTION (PL-1440)	QTY.
1	2106062	Elbow, 24MO x 24FP 90D	1
2	1049311000	Connector, 20MO x 16MJ STR	1
3	1032847000	Nipple, Combination	1
4	G39350000	Washer, Lock 1/2"	4
5	G18206000	Screw Hex Hd Cap 1/2-13 x 1.5	4
6	2106083	Plug, 24MO HPL	1
7	2106105	Stud, Extended	1
8	G09326000	Nut, Centerlock 5/8-11	2
9	2106104	Anchor, Pump	1
10	1013867000	Plug, 20MO HPL	1
11	1047148000	Box	1
12	2104617	Pump, Comm. P51 7/8-13 Spline	1

## Kit, Remote Mount Pump



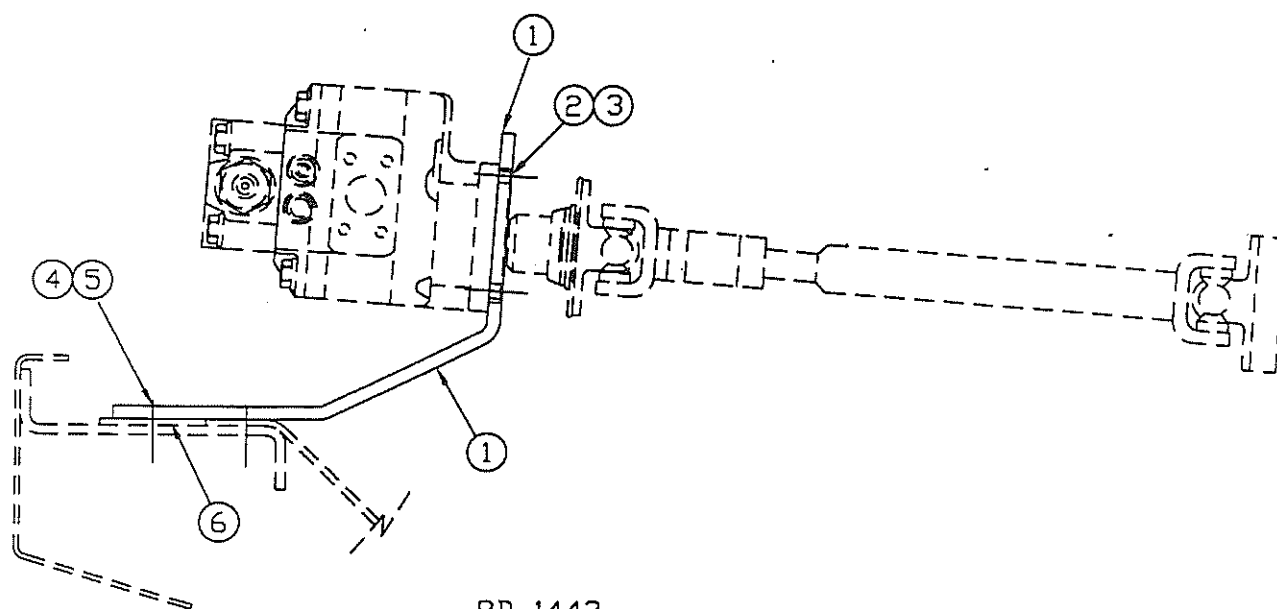
ITEM	PART NO.	DESCRIPTION	(PL-1439)	QTY.
1	2106062	Elbow, 24MO x 24FP 90D		1
2	1049311000	Connector, 20MO x 16MJ STR		1
3	1032847000	Nipple, Combination		1
4	G09227000	Nut, Centerlock 1/2-20		8
5	G18653000	Screw Hex Hd Cap 1/2-20 x 2		8
6	2106083	Plug, 24MO HPL		1
7	1017200000	Gusset		1
8	101062900	Angle, Pump Hanger		1
9	1031611000	Hanger, Pump		1
10	1013867000	Plug, 20MO HPL		1
11	1017499000	Brace, Pump Hanger		1
12	1047148000	Box		1
13	2104618	Pump, Comm. P51 1-1/4 Keyed		1
14	2045227000	Drive Line		1
15	1047460000	Yoke, Flange		2
16	1066560000	Screw Hex Hd Cap 7/16-20 x 1.5		8
17	G09177000	Nut, Centerlock 7/16-20		8
18	1066976000	Flange, Companion		2
19	1019141010	Wire, 8" long		2

# **Kit, Pump Muncie SL5M 27 GPM W/Driveline**



ITEM	PART NO.	DESCRIPTION	(PL-1438)	QTY.
1	2109626	Pump, Muncie 27 GPM		1
2	2045227000	Driveline		1
3	2108127	ADPHYD, -20MS X -16MJ 90D		1
4	2104521	Kit, Split Flange 1-1/4		2
5	2109768	ADPHYD, -20MS X -24MJ 90D		1
6	1065881013	ADPHYD, -24F JS X -24MHB STR		1
7	2104522	Kit, Split Flange 1-1/2		1
8	2110569	ADPHYD, -24MS X -32MHB 45D		1
9	1066976000	Flange, Companion		1
10	1019141000	Wire, 8"		1
11	1017208000	Screw, Set		1
12	104746000	Flange, Yoke		2
13	106656000	Screw, 7/16-20 x 1.5		8
14	G09177000	Nut, Centerlock 7/16-20		4
15	2102723	Clamp, Hose 2"		1
16	2102722	Clamp, Hose 1-1/2"		1

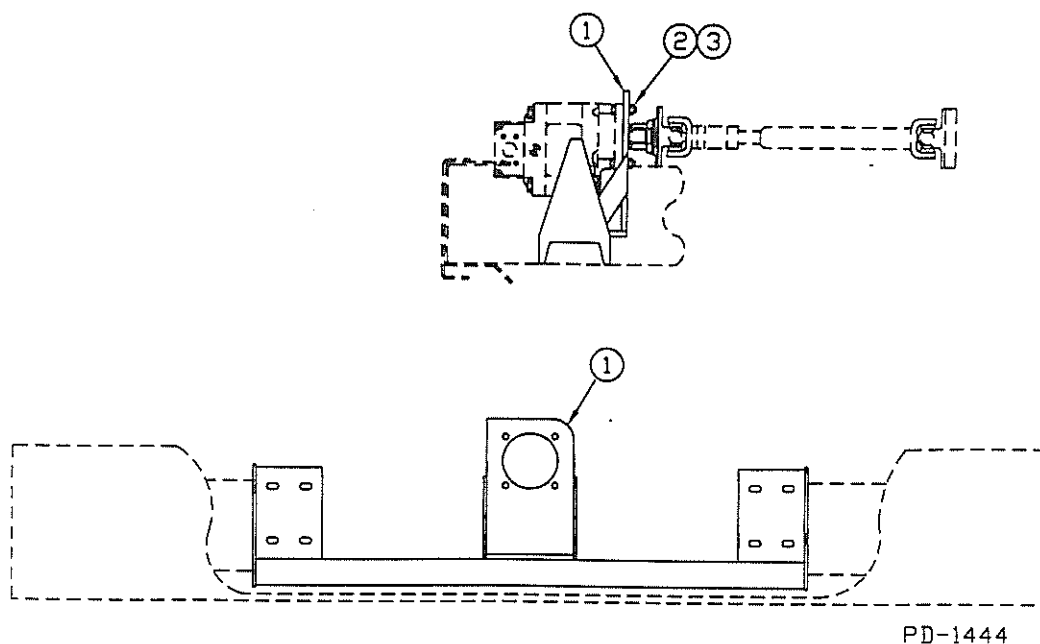
# **Pump Bracket Plate Muncie SL5M 27 GPM W/Driveline**



PD-1443

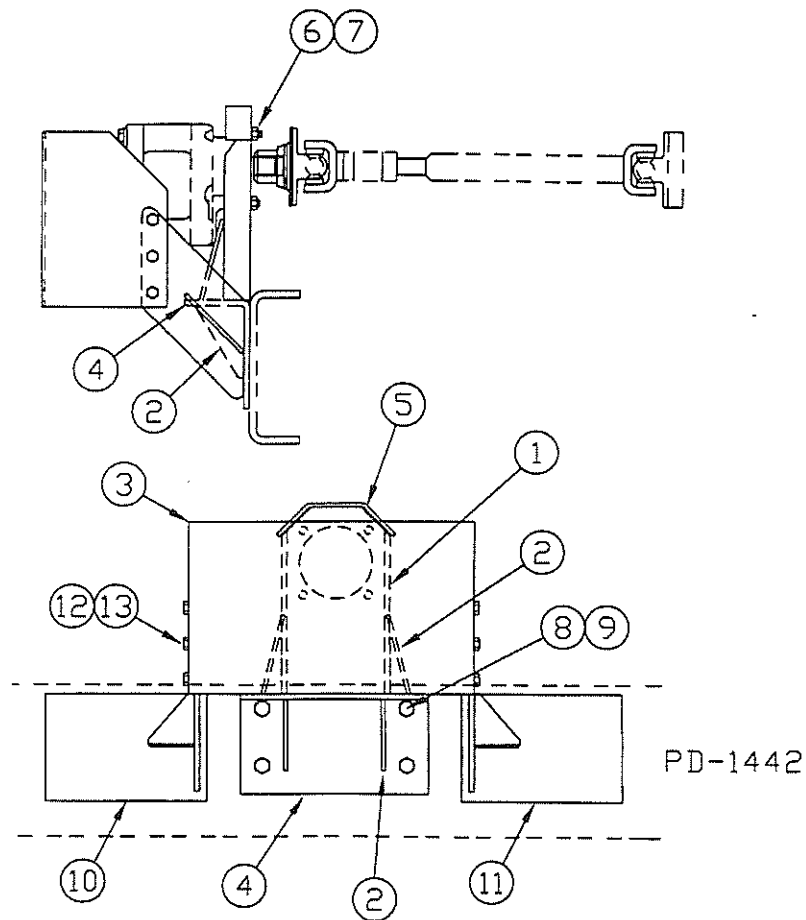
ITEM	PART NO.	DESCRIPTION	(PL-1443)	QTY.
1	2102751	Plate Pump Bracket		1
2	G18233000	Screw Hex Hd Cap 1/2-20 x 2		4
3	G09227000	Nut, Centerlock 1/2-20		4
4	G18333000	Screw Hex Hd Cap 5/8-18 x 2		4
5	G09335000	Spacer, Pump Bracket		1

# C-Flange Pump Muncie SLSM 27 GPM W/Driveline



ITEM	PART NO.	DESCRIPTION	(PL-1444)	QTY.
1	2102752	Bracket, Flange		1
2	G18233000	Screw Hex Hd Cap 1/2-20 x 2		4
3	G09227000	Nut, Centerlock 1/2-20		4

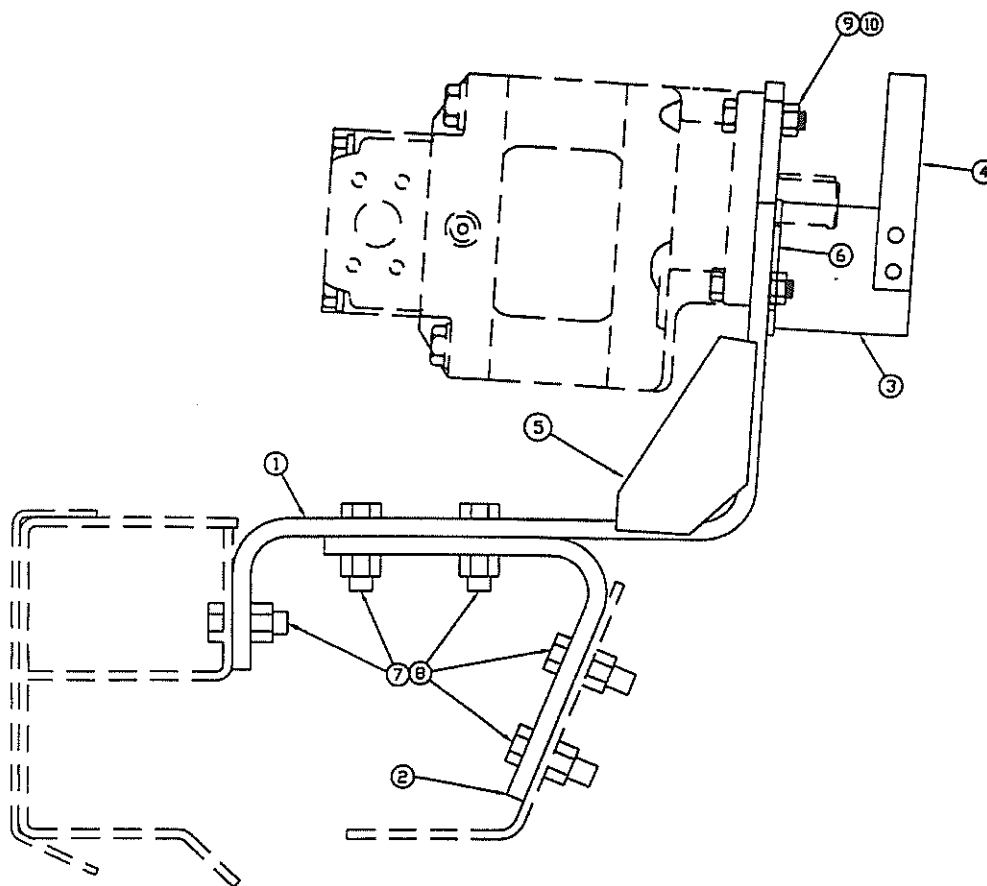
# **Pump Bracket W/Guard WX64**



ITEM	PART NO.	DESCRIPTION	(PL-1442)	QTY.
1	1028885000	Pump Hanger		1
2	1017200000	Gusset		4
3	2104314	Shield Pump		1
4	2106165	Angle, Pump Bracket		1
5	2106202	Toe Guard, Pump		1
6	G18233000	Screw, Hex HD Cap 1/2-20 x 2		4
7	G09227000	Nut, Centerlock 1/2-20		4
8	G18331000	Screw, Hex HD Cap 5/8-18 x 1.5		4
9	G09335000	Nut, Centerlock 5/8-18		4
10	2104303	Pump, Shield Bracket R.H. (Volvo WX64)		1
11	2104304	Pump, Shield Bracket L.H. (Volvo WX64)		1
12	G18230000	Screw, Hex HD Cap 1/2-20 x 1-1/4		6
13	G09227000	Nut, Hex 1/2-20		6



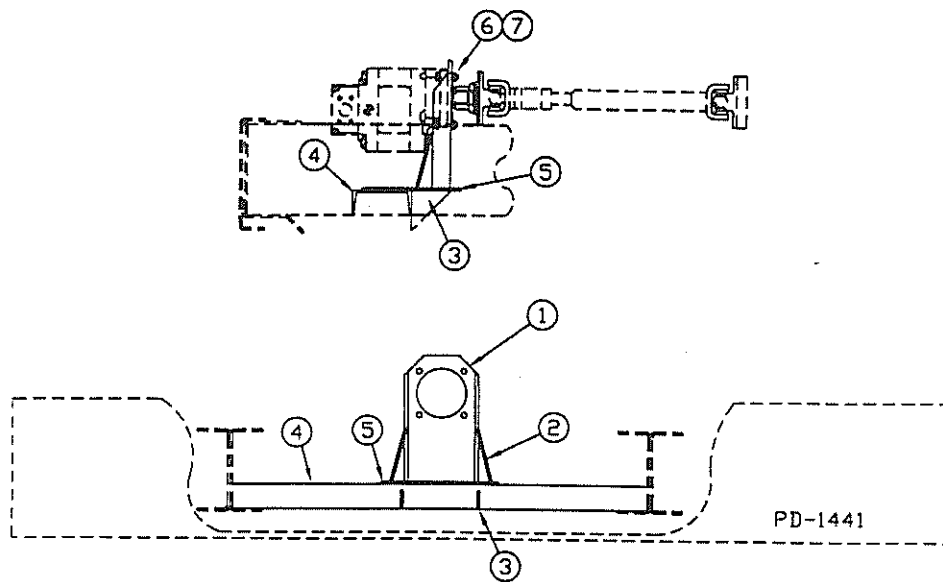
## Pump Bracket Mack LE



PD-1 437

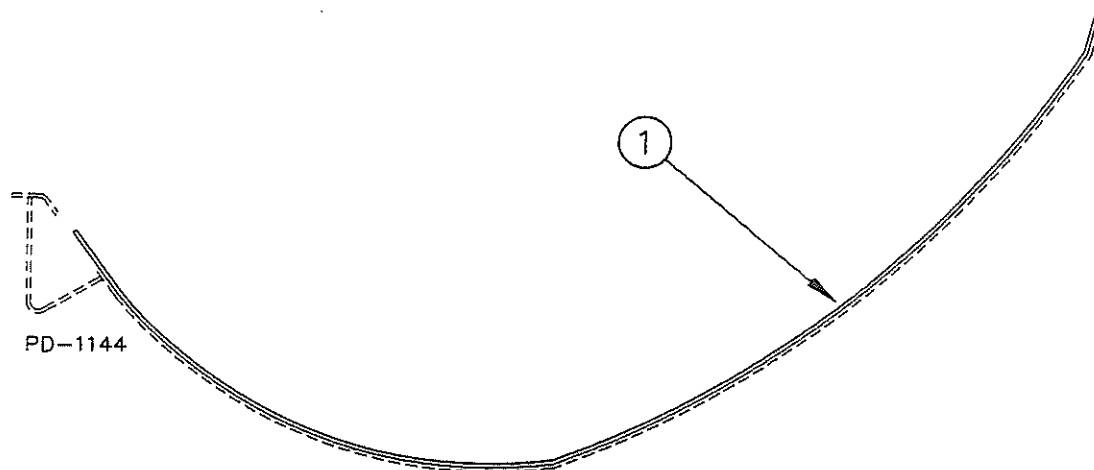
ITEM	PART NO.	DESCRIPTION	(PL-1437)	QTY.
1	2106369	Bracket, Pump Mack LE		1
2	2106372	Bracket, Pump Support Mack LE		1
3	2106374	Guard, Shaft Bottom Mack LE		1
4	2106375	Guard, Shaft Top Mack LE		1
5	2106370	Gusset, Pump Bracket Mack LE		2
6	2106373	Plate, Guard Mount Mack LE		1
7	G18333000	Screw, Hex HD 5/8-18 x 2		10
8	G09335000	Nut, Centerlock 5/8-18		4
9	G18233000	Screw, Hex HD 1/2-20 x 2		4
10	G09227000	Nut, Centerlock 1/2-20		4

# Kit, Pump Bracket Mack MR



ITEM	PART NO.	DESCRIPTION	(PL-1441)	QTY.
1	1028885000	Pump Hanger		1
2	1017200000	Gusset		2
3	1012783000	Gusset		2
4	1019612025	Channel, 6@12# x 41-7/8"		1
5	1013961189	Plate, 1/4 x 10 x 12		1
6	G18233000	Screw, Hex HD Cap 1/2-20 x 2		4
7	G09227000	Nut, Centerlock 1/2-20		4

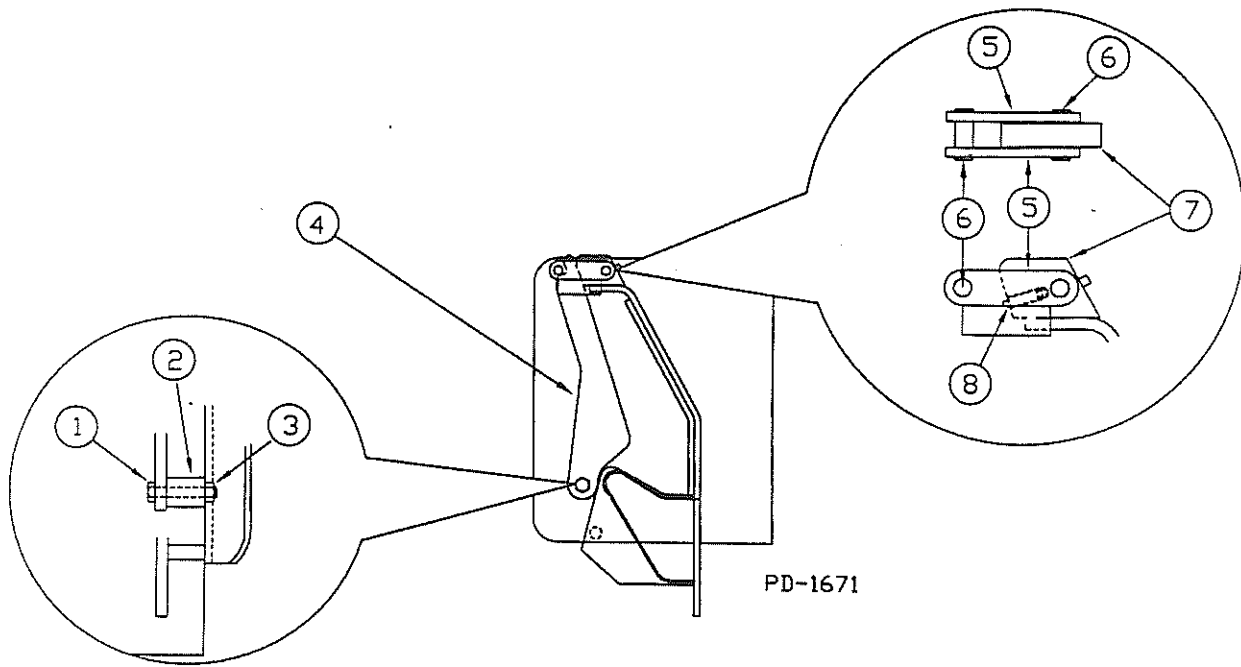
# HOPPER FLOOR LINER



ITEM	PART NO.	DESCRIPTION	(PL-1144)	QTY.
1	2101441	Hopper Floor Liner		1

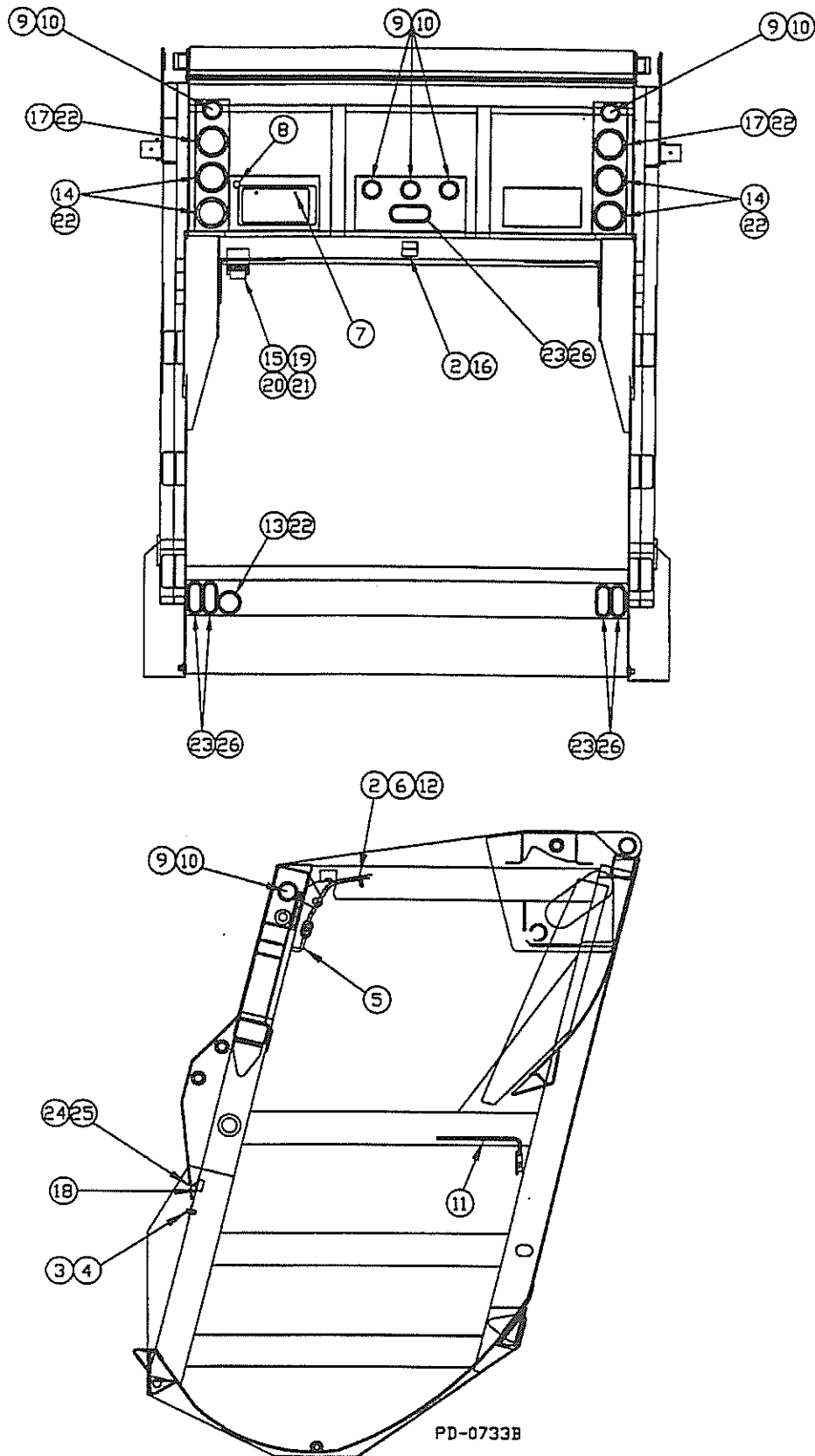


## LOAD SILL MOUNTING KITS (TIPPERS)



ITEM	PART NO.	DESCRIPTION	(PL-1671)	QTY.
	2112408	Load Sill Mounting Kit-Complete (Single Tipper A300 & G300)		1
	2112406	Load Sill Mounting Kit-Complete (Two Tippers A300 & G300)		1
	2112401	Load Sill Mounting Kit-Complete (Single Tipper G370)		1
	2112375	Load Sill Mounting Kit-Complete (Two Tippers G370)		1
1	G18391000	Hex Hd. Cap Screw		2
2	2112335	Spacer		2
3	G09385000	Lock Nut		2
4	2112337	Latch Bar		2
5	2112341	Lock Bar		4
6	2112342	Pin		4
7	2112340	Lock Bar Lug		2
8	2112380	Plunger Spring		2

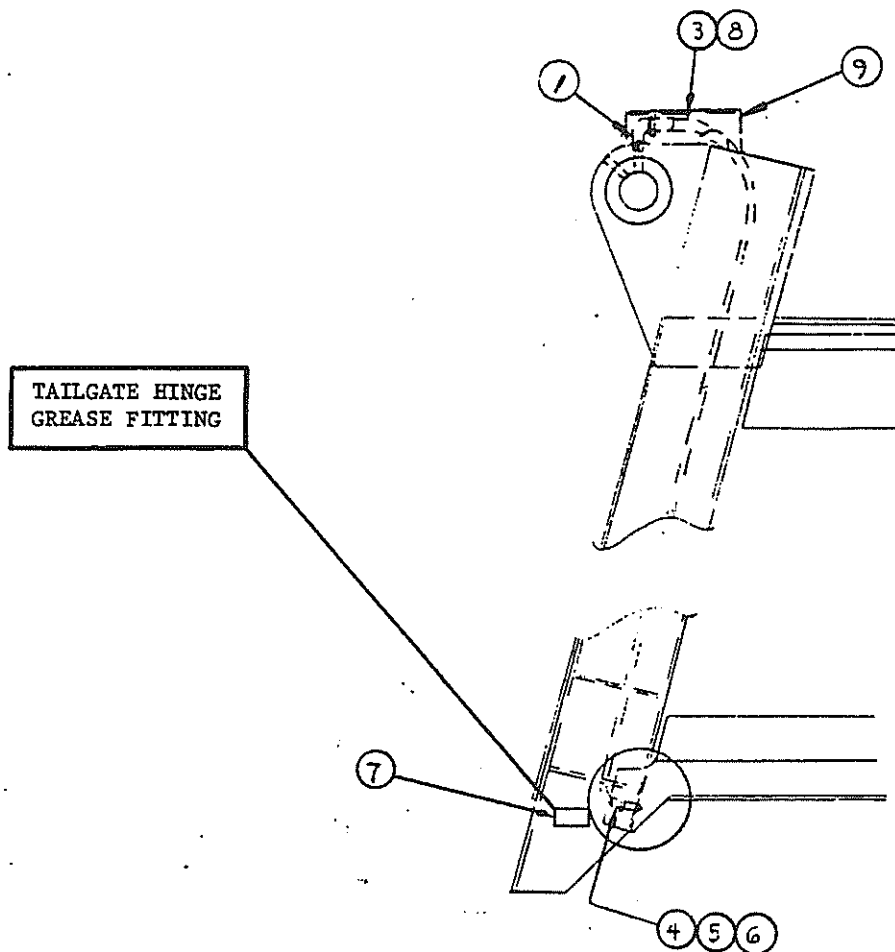
# TAILGATE WIRING (A300 & G300)



# TAILGATE WIRING (A300 &G300)

ITEM	PART NO.	DESCRIPTION	(PL-0733C)	QTY.
2	1037008000	Self Drilling Screw		14
3	1038717000	Buzzer Mounting Plate		2
4	2026598000	Push Button Switch		2
5	2104548	Tailgate Wiring Harness		1
6	1030055012	Clamp		10
7	2037019000	License Plate Bolt & Receptacle		2
8	2104651	License Lamp w/Plug		1
9	2112453	Red Clearance Lamp		7
10	1001410	Grommet		7
11	2104842	Gate Open Switch Harness		2
12	G39375000	Flat Washer		10
13	2112460	Back-Up Lamp - Clear		1
14	2112454	Tail Lamp - Red		8
15	2110043	Back-Up Alarm		1
16	2104652	Flashing Unit w/Plug		1
17	2112456	Flashing Lamp - Amber		2
18	1016742135	Sheet		2
19	2112415	Bracket		1
20	G18027000	Hex Hd.. Cap Screw		2
21	G-0935000	Lock Nut		2
22	1001425	Grommet		7
23	2112457	Stop Lamp - Red		1
24	2036981000	Optional Switch		1
25	1058919000	Switch Cover Plate		1
26	1001448	Grommet		5

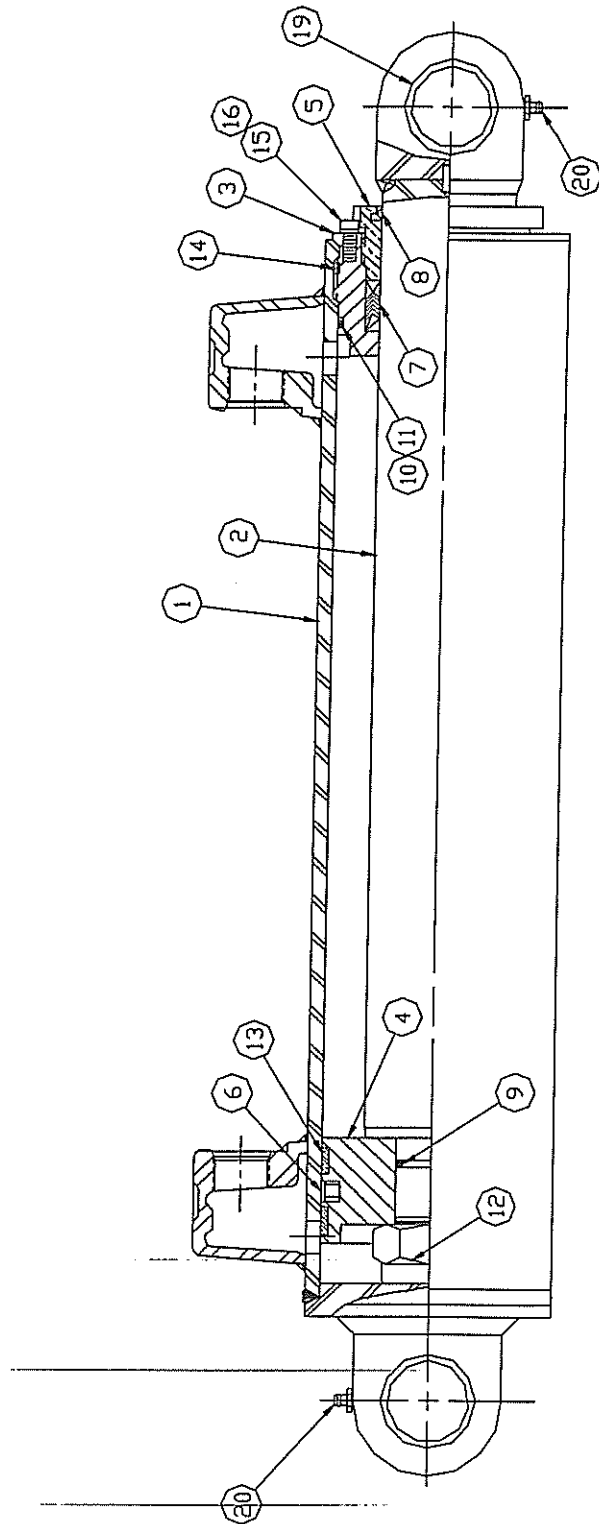
REAR HINGE GREASE FITTINGS  
( 2046767000 )  
(ONE EACH SIDE)



ITEM	PART NO.	DESCRIPTION	(PL-1013-A)	QTY.
1	G08004000	Street Elbow		2
3	2103674	Oil Hose		2
4	G08012000	Coupling		2
5	G07004000	Grease Zerk		2
6	1017117011	Adapter Union		2
7	1064970000	Decal		2
8	G72000000	Clamp		8
9	1064982000	Cover		2



CYLINDER ASSEMBLY MODEL C4025MDA  
( 2114634 )



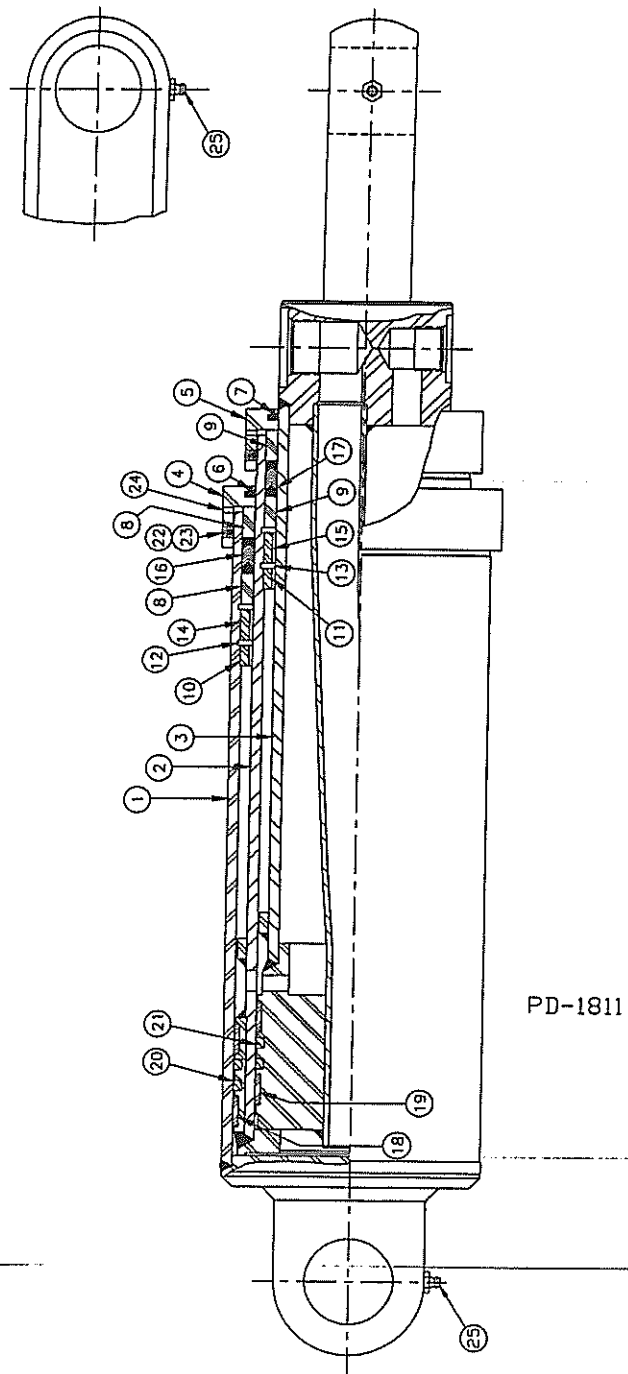
PD-1809

## CYLINDER ASSEMBLY

( 2114634 )

ITEM	PART NO.	DESCRIPTION	( PL-1809 )	QTY.
	2114634	Cylinder Assembly (Model C4025MDA)		1
1	2115657	Body Assembly		1
2	2115658	Piston Rod Assembly		1
3	2115659	Stuffing Box		1
4	2115031	Piston		1
5	2115660	Packing Gland		1
6	*2115033	Piston Seal		1
7	*2115661	Packing Set		1
8	*2115662	Wiper Ring		1
9	*2115036	O-Ring		1
10	*2115037	O-Ring		1
11	*2115038	Back-Up Ring		1
12	2115039	Nut		1
13	2115040	Guide Ring		2
14	*2115041	Slug		1
15	*2115061	Screw		1
16	*2115065	Lock Washer		1
18	2115663	Bushing		1
19	2115664	Bushing		1
20	2115042	Grease Fiting		2
	*2115665	Seal Kit		1

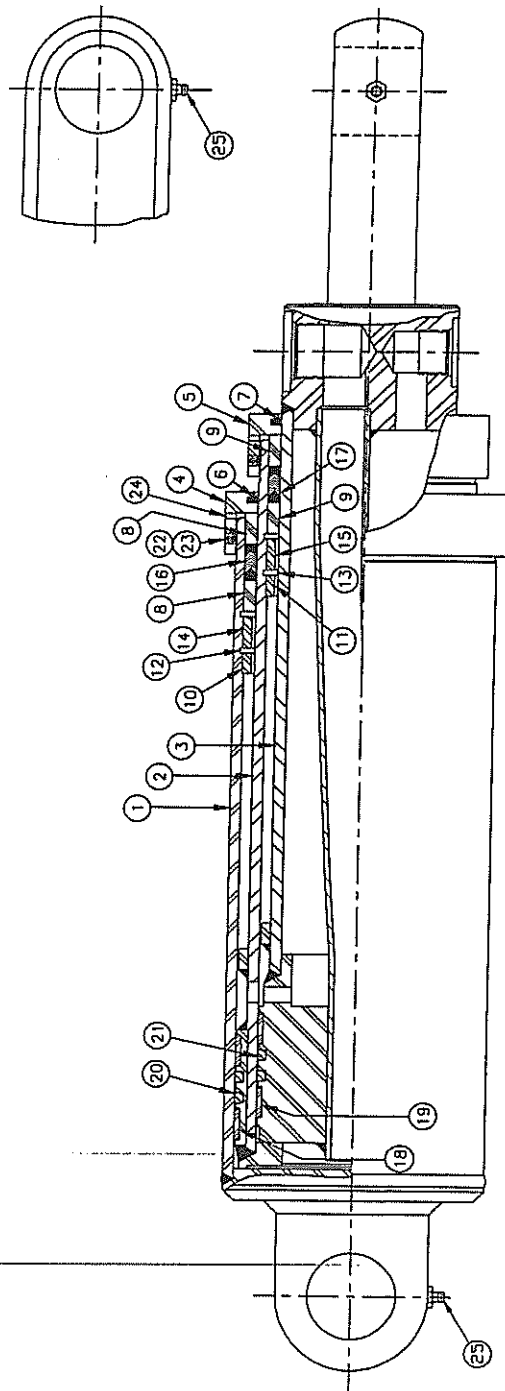
**CYLINDER ASSEMBLY MODEL C5269EDA**  
**( 2114654 )**



**CYLINDER ASSEMBLY**  
( 2114654 )

ITEM	PART NO.	DESCRIPTION ( PL-1811 )	QTY.
	2114654	Cylinder Assembly (Model C5269EDA)	1
1	2115686	Cylinder Tube Assembly	1
2	2115687	First Plunger Assembly	1
3	2115688	Last Plunger Assembly	1
4	2115689	Head Nut	1
5	2115690	Head Nut	1
6	2115691	Wiper Ring	1
7	2115692	Wiper Ring	1
8	2115693	Bushing	2
9	2115694	Bushing	2
10	2115695	Plunger Stop	1
11	2115696	Plunger Stop	1
12	2115697	Retainer Ring	2
13	2115698	Retainer Ring	2
14	2115699	Spacer	1
15	2115700	Spacer	1
16	2115701	Packing Set	1
17	2115702	Packing Set	1
18	2115703	Wear Ring	2
19	2115704	Wear Ring	2
20	2115682	Piston Ring	2
21	2115705	Piston Ring	2
22	2115706	Set Screw	2
23	2115041	Slug	2
24	2115707	Slug	2
25	2115042	Grease Fitting	2
	2115708	Seal Kit Includes Items 6, 7, 16, 17, 22, 23	1
	2115709	Minor Repair Kit Includes Items 8, 9, & 2115708	1
	2115710	Major Repair Kit Includes Items 10, 11, 12, 13, 14, 15, 18, 19, 20, 21, & 2115709	1

CYLINDER ASSEMBLY MODEL C5283EDA  
( 2114655 )

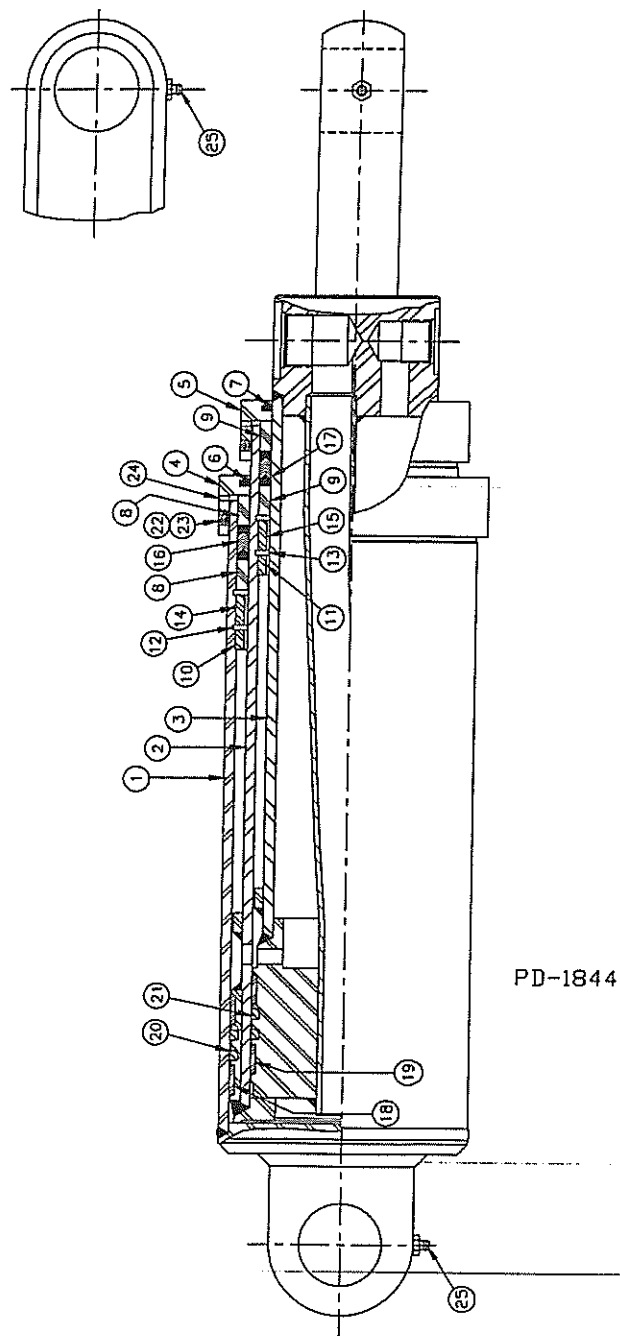


PD-1843

**CYLINDER ASSEMBLY**  
( 2114655 )

ITEM	PART NO.	DESCRIPTION ( PL-1843 )	QTY.
	2114655	Cylinder Assembly (Model C5283EDA)	1
1	2115861	Cylinder Tube Assembly	1
2	2115862	First Plunger Assembly	1
3	2115863	Last Plunger Assembly	1
4	2115689	Head Nut	1
5	2115690	Head Nut	1
6	2115691	Wiper Ring	1
7	2115692	Wiper Ring	1
8	2115693	Bushing	2
9	2115694	Bushing	2
10	2115695	Plunger Stop	1
11	2115696	Plunger Stop	1
12	2115697	Retainer Ring	2
13	2115698	Retainer Ring	2
14	2115699	Spacer	1
15	2115700	Spacer	1
16	2115701	Packing Set	1
17	2115702	Packing Set	1
18	2115703	Wear Ring	2
19	2115704	Wear Ring	2
20	2115682	Piston Ring	2
21	2115705	Piston Ring	2
22	2115706	Set Screw	2
23	2115041	Slug	2
24	2115707	Slug	2
25	2115042	Grease Fitting	2
	2115708	Seal Kit Includes Items 6, 7, 16, 17, 22, 23	1
	2115709	Minor Repair Kit Includes Items 8, 9, & 2115708	1
	2115710	Major Repair Kit Includes Items 10, 11, 12, 13, 14, 15, 18, 19, 20, 21, & 2115709	1

**CYLINDER ASSEMBLY MODEL C5297EDA**  
**( 2114656 )**

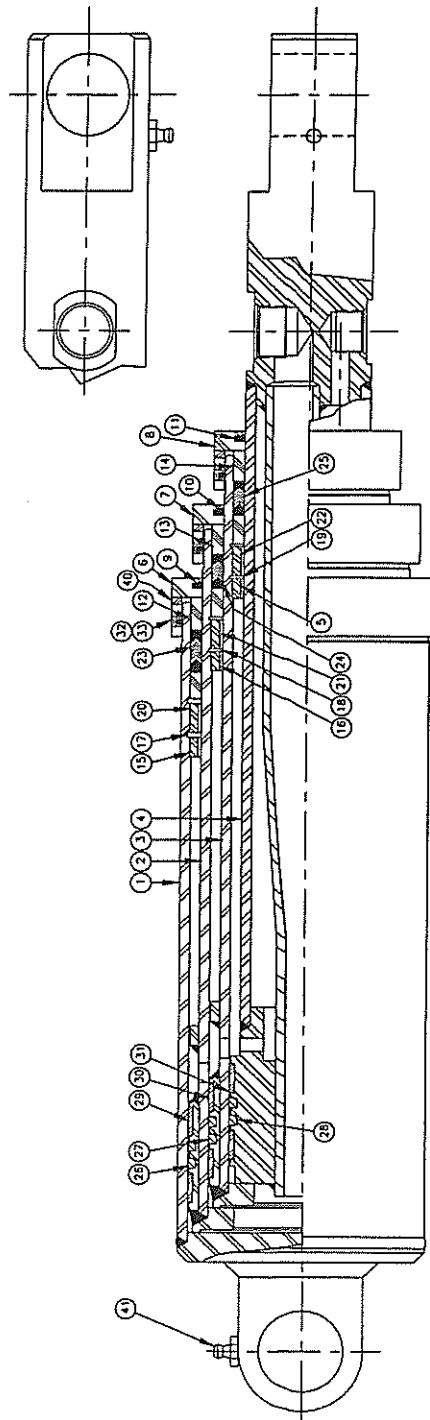


**CYLINDER ASSEMBLY**  
( 2114656 )

ITEM	PART NO.	DESCRIPTION ( PL-1844 )	QTY.
	2114656	Cylinder Assembly (Model C5297EDA)	1
1	2115866	Cylinder Tube Assembly	1
2	2115867	First Plunger Assembly	1
3	2115868	Last Plunger Assembly	1
4	2115689	Head Nut	1
5	2115690	Head Nut	1
6	2115691	Wiper Ring	1
7	2115692	Wiper Ring	1
8	2115693	Bushing	2
9	2115694	Bushing	2
10	2115695	Plunger Stop	1
11	2115696	Plunger Stop	1
12	2115697	Retainer Ring	2
13	2115698	Retainer Ring	2
14	2115699	Spacer	1
15	2115700	Spacer	1
16	2115701	Packing Set	1
17	2115702	Packing Set	1
18	2115703	Wear Ring	2
19	2115704	Wear Ring	2
20	2115682	Piston Ring	2
21	2115705	Piston Ring	2
22	2115706	Set Screw	2
23	2115041	Slug	2
24	2115707	Slug	2
25	2115042	Grease Fitting	2
	2115708	Seal Kit Includes Items 6, 7, 16, 17, 22, 23	1
	2115709	Minor Repair Kit Includes Items 8, 9, & 2115708	1
	2115710	Major Repair Kit Includes Items 10, 11, 12, 13, 14, 15, 18, 19, 20, 21, & 2115709	1



**CYLINDER ASSEMBLY MODEL C53129EDA**  
**( 2114657 )**

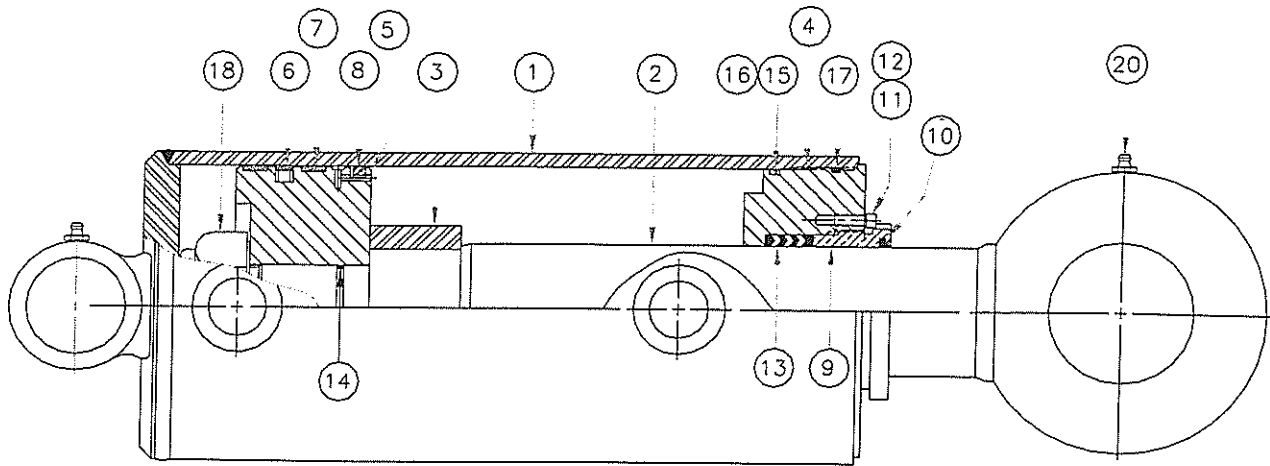


PD-1845

# **CYLINDER ASSEMBLY**

ITEM	PART NO.	DESCRIPTION ( PL-1845 )	QTY.
	2114657	Cylinder Assembly (Model C53129EDA)	1
1	2115869	Cylinder Tube Assembly	1
2	2115870	First Plunger Assembly	1
3	2115871	Second Plunger Assembly	1
4	2115873	Last Plunger Assembly	1
5	2115873	Plunger Stop	1
6	2115689	Head Nut	1
7	2115690	Head Nut	1
8	2115874	Head Nut	1
9	2115691	Wiper Ring	1
10	2115692	Wiper Ring	1
11	2115875	Wiper Ring	1
12	2115693	Bushing	2
13	2115694	Bushing	2
14	2115876	Bushing	2
15	2115695	Plunger Stop	1
16	2115696	Plunger Stop	1
17	2115697	Retainer Ring	2
18	2115698	Retainer Ring	2
19	2115877	Retainer Ring	2
20	2115699	Spacer	1
21	2115700	Spacer	1
22	2115878	Spacer	1
23	2115701	Packing Set	1
24	2115702	Packing Set	1
25	2115879	Packing Set	1
26	2115682	Piston Ring	2
27	2115705	Piston Ring	2
28	2115880	Piston Ring	2
29	2115703	Wear Ring	2
30	2115704	Wear Ring	2
31	2115881	Wear Ring	2
32	2115706	Set Screw	2
33	2115041	Slug	2
37	2115882	Self Align Bearing	2
38	2115883	Retainer Ring	2
40	2115707	Slug	2
41	2115042	Grease Fitting	2
	2115884	Seal Kit	1
		Includes Items 9, 10, 11, 23, 24, 25, 32, 33, 36, 39	
	2115885	Minor Repair Kit	1
		Includes Items 12, 13, 14, & 2115884	
	2115886	Major Repair Kit	1
		Includes Items 15, 16, 17, 18, 19, 20, 21, 22, 26, 27, 28, 29, 30, 31, & 2115885	

**CYLINDER ASSEMBLY**  
( 2114667 )



PD-1881

ITEM	PART NO.	DESCRIPTION	( PL-1881 )	QTY.
	2114667	Cylinder Assembly (Model C6060DDA)		1
1	2116365	Body Assembly		1
2	2116366	Piston Rod Assembly		1
3	2116367	Spacer		1
4	2115055	Stuffing Box		1
5	2115056	Piston		1
6	*2115059	Piston Seal		1
7	*2115058	Guide Ring		2
8	*2115067	Piston Ring		1
9	2115064	Packing Gland		1
10	*2115035	Wiper Ring		1
11	*2115061	Screw		1
12	*2115065	Lock Washer		1
13	*2115034	Packing		1
14	*2115060	O-Ring		1
15	*2115062	O-Ring		1
16	*2115063	Back-Up Ring		1
17	*2115041	Slug		1
18	2115057	Nut		1
20	2115042	Grease Fitting		1
	2115073	Seal Kit		1

HERCULES

GOLIATH

APOLLO



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