IMPAC®

OPERATORS AND SERVICE MANUAL

SERIAL NUMBERS:
BODY: _____
MAST: _____
GRABBER: _____
MFG. DATE: _____

Made in U.S.A.

0600-003-7-2001

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WARRANTY POLICY LIMITATIONS

The following items are not covered by this IMPAC Warranty Policy and Procedure Manual and are the responsibility of the user:

1. Normal preventive maintenance and service as recommended by IMPAC's service and maintenance manuals and service bulletins.

2. All filters and strainers (air and hydraulic) except when required to comply with the warranty claims procedure.

3. Hydraulic oil except when related to the repair or replacement of a component under warranty.

4. Replacement of light bulbs, lens, reflectors, and fuses.

5. Adjustments of any kind.

6. Failure for any reason other than defective material or workmanship.

7. Failures as a result of the users noncompliance with applicable IMPAC service manuals and service bulletins.

8. Failures resulting from inadequate service and/or repair by the user or a repair facility.

9. Failures resulting from use of parts other than genuine IMPAC parts that were purchased from an authorized IMPAC representative.

10. Failures caused by use for purposes other than those for which the equipment was designed.

11. Failures caused by alteration and/or modifications that were made without prior approval by the IMPAC engineering and warranty department.

12. Replacement of wear pads, rollers, scrapers, and wearing surfaces that are designed and expected to wear and then require replacement under normal use.

13. Failures caused by natural disasters such as fire, flood, wind, and lightning.

DEFINITION OF CONSEQUENTIAL DAMAGES

In no event shall Central Tank or Mabar be held liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort liability, or any other legal theory.

SUCH DAMAGES INCLUDE, BUT ARE NOT LIMITED TO:

1. Loss of profits, savings, capital, or revenue.
2. Loss of use of the refuse body, parts, components, or assemblies.
3. Cost of rental equipment, facilities, or services resulting from downtime.
4. Claims from third parties, including customers, of injury or damage of property.
5. Cost of towing, transporting, or storing equipment.
6. Cost of lodging and transportation for any person.

TIME LIMITATIONS FOR BREACH OF WARRANTY ACTIONS

Any action for breach of the warranty must be commenced within twelve (12) months following said breach.

SAFETY INSTRUCTIONS

SAFETY INSTRUCTIONS

Safety is a prime consideration in these units. These instructions should be thoroughly read and understood before attempting to operate or service this unit..

⚠ This is a safety alert symbol. It is used to call special attention to safety related information. Carefully read and comply with its instructions following this symbol in order to avoid personal injury to operator.

The employer shall properly maintain mobile equipment to meet all applicable regulatory safety standards and shall be responsible for:

1. Providing employees safety instruction and training (including manufacturer's procedures) on operation, maintenance, service, and repair of equipment; and, monitoring employee's operation (periodic and regular inspection) of equipment, including adherence to safety practices.

2. Record keeping (including, but not limited to) Malfunction reports, inspections, maintenance reports, and repairs.

3. Appropriate lighting during hours of darkness, including adequate visibility of loading hopper and overhead obstructions. (NOTE: Provision does not require equipment manufacturer to install extra lighting.)

4. Ensuring containers lifted by container lifting mechanism (including all components of) do not exceed load rating as specified by manufacturer.

5. All service opening covers and access doors are maintained, in place, and equipped with functioning safety interlock switches while vehicle is in use.

OPERATORS/EMPLOYEES WHO WORK AND/OR DRIVE EQUIPMENT SHALL BE RESPONSIBLE FOR:

1. Using equipment only after receiving proper instruction and training: and, using all applicable safety features on equipment.

2. Reporting damage or malfunction of equipment to employer when incident occurs or as soon as possible prior to end of operating day.

3. Ensuring, prior to and during operation of equipment, the following:
   a. Access doors are latched with safety interlock switches operating correctly.
   b. During all phases of dumping or packing process, area is clear of persons, including time tailgate is opened and/or closed. Operator to instruct persons NOT to cross under open tailgate.
   c. Following manufacturer's recommended operating and safety instructions.

Reconstruction and Modification: Any unauthorized person or persons modifying or reconstructing equipment shall affix to such equipment his name and date of modification or reconstruction: and, shall furnish operating instructions establishing guidelines for use, cleaning, and care of unit or component associated with reconstruction or modification. Instructions shall include all safety notices associated with equipment change.

SAFETY INSTRUCTIONS

In order to help prevent accidents, the following safety rules must be observed at all times.

1. Daily check of safety items on machine: Always check parking brake, lights, back-up alarm, horns, tires, safety interlock switches, ect. for any malfunction or adjustment that needs to be corrected before machine is operated.

2. Do not leave equipment in dangerous positions unattended without taking proper parking precautions.

3. Operating equipment in dangerous areas: slopes, overhangs, high walls, ridges, ditches, ect. Use extreme care in areas such as these.

If welding hydraulic equipment, care should be exercised so that accumulated dirt and oil does not become ignited. Cleaning the area before welding would be a good practice. Keep fire extinguisher close to working area. Good housekeeping is a must.

Gasoline fuel tanks should be removed and located outside of the welding area. Diesel fuel tanks should be covered with a wet tarp to prevent fumes from causing an explosion or fire. If the battery of the truck is located near the repair area where sparks can fall on the battery, it is possible to blow up the battery from the acid fumes.

If it becomes necessary to weld or braze a hydraulic reservoir, hydraulic oil when sufficiently heated and in the presence of air is a powerful explosive. Any method of brazing, welding, or open flame soldering without proper preparation is hazardous.

Safety equipment should be worn when working under conditions that require their use.

When two or more people are testing a hydraulic system, be sure that each person is informed of the procedure to be followed. Avoid contact with rotating couplings between hydraulic motors, pumps, power-take-offs, ect.

Hydraulic oil, under pressure can be dangerous. Care should be taken when bleeding or opening a high pressure line (release pressure slowly), as a thin stream of oil can inflict injury. Unauthorized pressure settings of relief valves can burst lines, valves, pumps, or cylinders.

⚠ If repairing tailgate, packer panel, cylinders, lift, lift undercarriage, ect., provide proper supports or safety chains to prevent these heavy component parts from slipping or falling. This could cause damage to the unit and/or severe injury to the person making the repairs.

NOTES

SAFETY INSTRUCTIONS

CHECK BEFORE MOVING UNIT:

Make certain that no one is in a danger area before entering operator's compartment. Sound horn before moving unit. If possible, have someone for guidance when backing unit.

Do not operate unit without instruments. Each gauge and or indicator light on the truck instrument panel serves as an improtant check point for operating conditions of the unit. Do not operate unit if gauges and indicator lights are not functioning properly.

⚠ Avoid greasy hands, steps, ladders, catwalks, and floors: Keep hands, floors, and controls free from water, grease, and mud to assure non-slip control.

⚠ Do not leave machine unattended. Mast should be either in a full "down" or full "dump" position. The tailgate should be closed and locked. All keys from the equipment control panel should be removed.

⚠ Mast and tailgate will fall if hydraulic pressure is lost. Do not walk or stand under the mast or tailgate. Do not park with tailgate in an "up" position.

⚠ BE CAREFUL OF LIFE AND LIMB: DO NOT PLACE HANDS ON ROLLER TRACK OR OTHER MOVING PARTS.

⚠ STAND CLEAR OF MAST.

⚠ STAND CLEAR OF TAILGATE.

⚠ Do not operate mast until you know it is clear.

⚠ Do not dump until you know tailgate area is clear

Portions of above safety instructions taken from Data Sheet D-256 of National Safety Council Report.

Extra decals are avaliable and are listed in the parts manual.

SAFETY INSTRUCTIONS

⚠ Do not dump until you know tailgate area is clear.

⚠ **STAND CLEAR OF TAILGATE!**

⚠ Stop unit to service or adjust: Stop all operation and shut down unit when cleaning, adjusting, and lubricating unit.
Tailgate must be in a down position, all keys and master fuse must be removed from the equipment control panel. If parked on a grade or slope, wheels should be blocked.

⚠ **BE CAREFUL OF LIFE AND LIMB: DO NOT PLACE HANDS ON ROLLER TRACK OR OTHER MOVING PARTS.**

⚠ Select low speed range to descend steep slope: Use a low speed range and periodic brake application to control unit speed when descending a steep slope.

Portions of above safety instructions taken from Data Sheet D-256 of NationalSafety Council Report.

Extra decals are avaliable and are listed in the parts manual.

LOCKOUT/TAGOUT PROCEDURES

Performing the lockout/tagout procedure should be followed whenever you are inspecting, cleaning or repairing your Impac Unit.

⚠ NOTE: FAILURE TO FOLLOW THE LOCKOUT/TAGOUT PROCEDURE MAY RESULT IN SERIOUS INJURY OR DEATH.

1. Set the chassis park brake.

2. TURN off engine, REMOVE keys from ignition and STORE keys in a safe controlled area. It is recommended that you keep the keys on your person. REMOVE the master fuse from the equipment control panel.

3. MOVE any one of the hydraulic controls to RELIEVE any residual pressure in the system.

4. PLACE a DO-NOT-OPERATE tag on the steering wheel using a non-reusable fastener and place an Out-Of Service sign in the front window.

5. TURN OFF and LOCK the battery switch.

6. CHOCK the wheels.

OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS

The IMPAC unit is mounted on various truck chassis. Some of the following information is general that covers the operation of all equipment of our manufacturer. For operating and servicing information for the truck chassis, you should refer to the manual furnished by the truck chassis manufacturer.

When your compactor is equipped with an auxiliary diesel engine, gasoline engine, or other optional equipment, refer to the manufacturers manual for service and operating procedure for that equipment. Starting instructions and cab controls are in this manual.

CHECK BEFORE STARTING:

Tires
Engine oil level
Transmission oil level (Recheck at operating tempature)
Power steering oil level
Radiator coolant level
Battery electrolite level
Air cleaners
Auxiliary engine oil level
Hydraulic system fluid level

CHECK FUEL LEVEL IN ALL TANKS :

CAUTION
DO NOT FILL FUEL TANKS WITH ENGINE RUNNING OR HOT. FILL CAREFULLY BECAUSE SPILLED FUEL CAN CAUSE FIRE!

VISUALLY CHECK FOR LEAKS:

Engines
Transmission
Hydraulic tank and hoses
Cooling system
Fuel Tanks
Differential (rear end)
Brake system

CHECK AFTER STARTING

CAUTION
BE SURE OF ADEQUATE VENTILATION WHEN UNIT IS BEING OPERATED IN BUILDING OR OTHER ENCLOSURES.

Engine oil pressure
Ampmeter
Voltmeter
Tachometer

Engine Temperature
Transmission Temperature
Air pressure (Minimum 90 PSI)

TEST

Brake pedal pressure
Lights
Horn
Back-up alarm

TEST OPERATION

Mast
Compactor
Tailgate

Remember, the safety of the operator and of other personnel and efficient operation of the unit depends on the performance of all items in the check lists above. Service on the unit should be done before moving if inspection indicates the need for service.

TO OPERATE:

1. Push master control switch to "off" position.
2. Start truck engine.
3. Build air pressure to 75 PSI.
4. Allow engine to idle.
   DO NOT ENGAGE OVER 1000 RPM
   DO NOT OPERATE OVER 2000 RPM
5. Pull switch to "on" position.

A Muncie speed control automatically governs pump engagement within the safe operating range.

DO NOT "ROAD" WITH PUMP ENGAGED

Pump may be disengaged by switching master switch to "off" position.

MAST OPERATION

CAUTION
NEVER ATTEMPT TO OPERATE MACHINE OR ATTACHMENT EXCEPT WHEN SEATED IN THE OPERATOR'S SEAT.

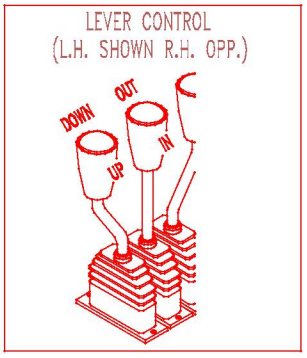
TO STOP ENGINE

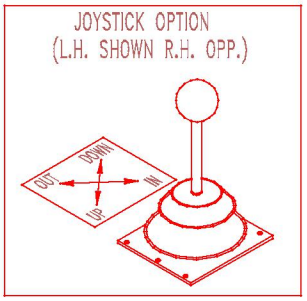
1. An engine that has been operating under load conditions should idle for five minutes before stopping. This allows the engine time to cool evenly and will add to service life.
2. Truck ignition switch must be "on".
3. Be sure mast, compactor, and tailgate are in the desired position.
4. Turn key switch to "kill"position. Hold until engine dies.
5. Return key switch to "off" position.

NOTE: For key, button, and units without kill positions, the start and kill positions are reversed.

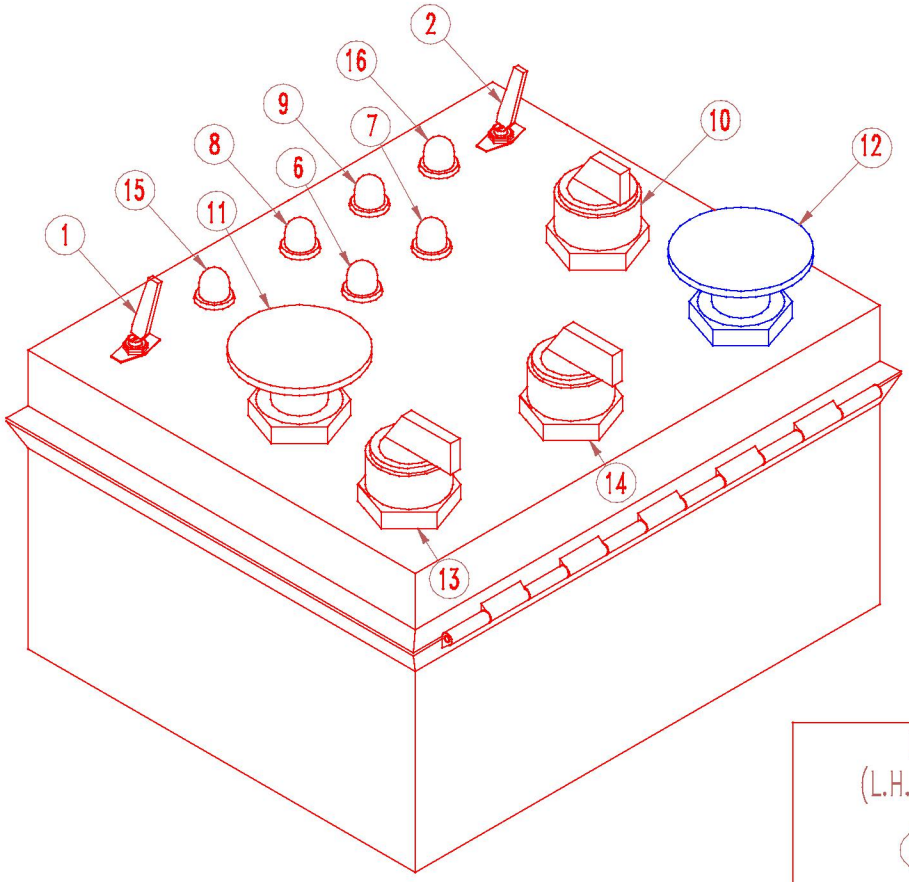
CONTAINER PICK UP

1. Engage or start power source (see power source (PTO) instructions.)
2. Place master switch to "on" position.
3. Position truck with mast attachment in alignment with container hooks.
4. Move mast to container.
   LEVER POSITION: FORWARD–OUT or JOYSTICK POSITION: OUT
5. Lift 8" to 12" for "NO DRAG" clearance.
   LEVER POSITION: BACK–UP or JOYSTICK POSITION: UP
6. Return mast to body.
   LEVER POSITION: BACK–IN or JOYSTICK POSITION: IN
7. Dump container.
   LEVER POSITION: BACK–UP or JOYSTICK POSITION: UP
8. Lower container, stopping to allow for "NO DRAG" clearance.
   LEVER POSITION: FORWARD–DOWN or JOYSTICK POSITION: DOWN
9. Move mast out to replace container in proper location.
   LEVER POSITION: FORWARD–OUT or JOYSTICK POSITION: OUT
10. Lower mast to release container.
    LEVER POSITION: FORWARD–DOWN or JOYSTICK POSITION: DOWN
11. Return mast to body.
    LEVER POSITION: BACK–IN or JOYSTICK POSITION: IN
12. Compact load. (See compactor instructions)
13. Move to next pick up location.

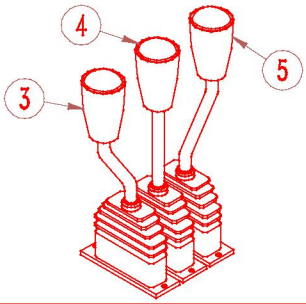




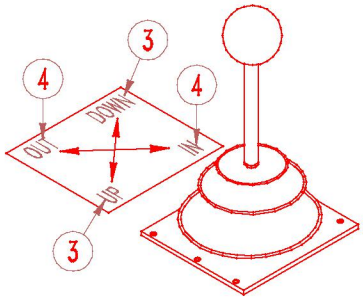
OPERATING INSTRUCTIONS
COMPACTOR CONTROL SYSTEM
NOMENCLATURE



LEVER CONTROL
(L.H. SHOWN R.H. OPP.)



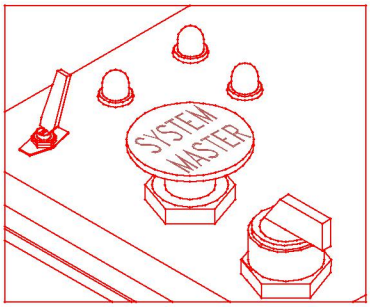
JOYSTICK OPTION
(L.H. SHOWN R.H. OPP.)



1. Strobe
2. Work Light
3. Lift Frame Up/Down
4. Mast In/Out
5. Grabber Release/Grab
6. Overspeed/ Blue Light
7. Tailgate Open/ Red Light
8. Retract/ Yellow Light
9. Compact/ Green Light
10. Compact- Eject/unload
11. System Master
12. Compact
13. Tailgate Open/Close
14. Ejector Blade
15. Strobe/White Light
16. Work/White Light

COMPACTOR OPERATION

It is not necessary to compact after each container dump. An empty body will hold approximatly 8 cubic yards of waste before compaction is necessary. As the body load increases, frequency of compact operation increases.



TO COMPACT

1. Start engine.
2. Allow engine to idle.
3. Pull master switch (11) to the "on" position. Start compact operation with chassis engine at idle speed.
4. Rotate the selector switch (10) to position #1 (compact).
5. Momentarialy press the contact switch (12).
6. Increase engine RPM for faster compaction.

⚠ **WARNING: OPERATE ONLY IN THE SAFE RANGE RECOMMENDED FOR YOUR POWER SOURCE!**

Compact operation is automatic. The compactor blade will travel a safe distance past the hopper opening and return.
You may cancel the compact operation at any time by placing the master switch (11) to the "off" position. The compactor will return to the front of the body when the master switch (11) is placed to the "on" position.

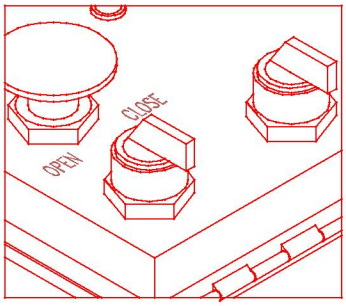
⚠ **WARNING: DO NOT OPERATE COMPACTOR WITH CONTAINER IN DUMP POSITION!**

TO UNLOAD

1. Set truck brake.
2. Engage pump.
3. Pull master switch (11) to "on" position. Start unload operation with chassis engine at idle speed.
4. Rotate selector switch (10) to position "2" (eject/unload).
5. Check tailgate area to be sure it is clear.
6. Open tailgate (13).
7. Rotate ejector blade switch (14) to "extend" position hold.
8. Increase power source speed..
9. When pump loads, return switch (10) to the neutral position. The compactor will stay at the rear of the body.
10. Place the master switch (11) to the "off" position.
11. Clean the compactor blade and hood.
12. Place the master switch (11) to the "on" position.
13. Rotate the ejector switch (10) to "retract" position and hold.
14. When the packer returns to full foreward, return switch (10) to neutral position.

15. Close and lock tailgate (13).
16. Rotate selector (10) to position "1" (compact).
17. Push the master switch (11) to the "off" position.

⚠ WARNING: DAMAGE WILL OCCUR TO THE TAILGATE AND COMPACTOR IF THE TAILGATE IS NOT IN A FULL OPEN POSITION WHEN UNLOADING! DO NOT CLOSE THE TAILGATE WITH THE COMPACTOR EXTENDED!



REAR DOOR OPERATION:

1. Set truck brake.
2. Engage or start power source.
3. Place master switch (11) to "on" position.
4. Rotate selector switch (10) to position "2" (eject/unload).
5. Check tailgate area for people and obstacles.
6. Rotate switch (13) to open position and hold until the tailgate is in a full up position. Unlocking is automatic.

EJECT LOAD (See compactor instructions)

7. Rotate switch (13) to close position and hold until the tailgate is in a full down position and locked.
8. Rotate selector switch (10) to position "1" (compact).
9. Place master switch (11) to the "off" position.

⚠ WARNING: BE SURE ALL PERSONS ARE CLEAR OF TAILGATE BEFORE OPENING AND CLOSING!
DO NOT WALK OR STAND UNDER TAILGATE!
USE CAUTION AT THE DUMP SITE: LOADED EQUIPMENT SHOULD ALWAYS HAVE THE RIGHT-OF-WAY!

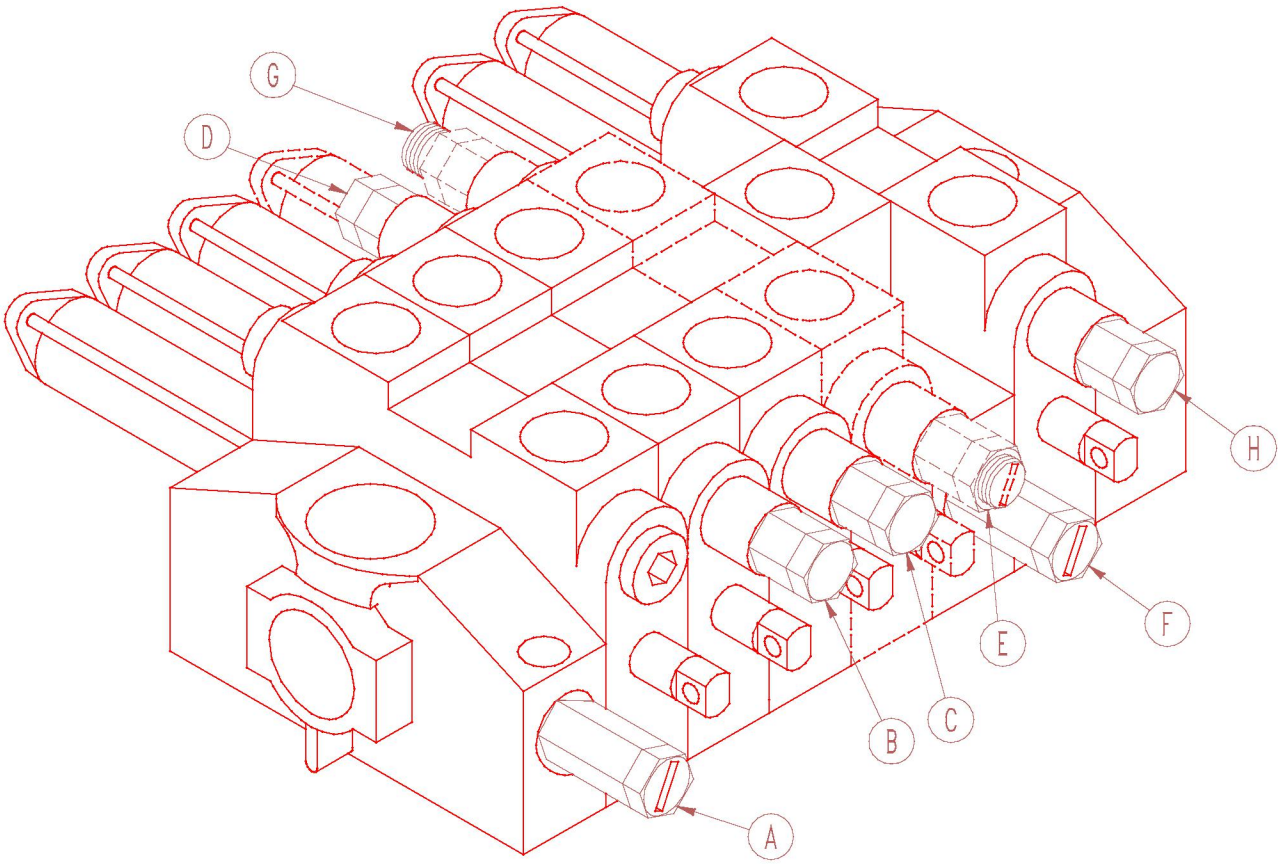
⚠ WARNING: DOOR MUST BE CLOSED FOR UNIT TO ACTIVATE. BODILY INJURY WILL RESULT IF LIMIT SWITCH IS DE-ACTIVATED!

Someone should direct backing and check area to see that it is clear.

SPRAY UNIT

A timer is mounted on the internal control box. It is adjustable from 1 to 30 seconds of spray time. The spray is activated by momentarily pressing spray switch.

SERVICE AND MAINTENANCE



NOTE: OPTIONAL GRABBER SECTION DEPICTED WITH DASHED LINE.

SERVICE AND MAINTENANCE
PRESSURE SETTINGS

CAUTION: EXCESSIVE PRESSURES WILL CAUSE DAMAGE TO COMPONENTS AND CAN CAUSE INJURY TO PERSONS. READ INSTRUCTIONS CAREFULLY!

CAUTION: IF EQUIPPED WITH A GRABBER ARM ATTACHMENT, THE GRABBER ARMS SHOULD REMAIN CLOSED AT ALL TIMES. PERSONNEL SHOULD BE AWARE OF MOVING PARTS AT ALL TIMES.

NOTE: All pressure settings in this system require that:

1. The system is activated (main switch pulled up) and PTO , if employed in the system, is engaged.
2. When making pressure readings, the engine speed should be 1200–1400 RPM unless otherwise specified.
3. All pressures can be read on the pressure gauges located on the valve body or control box outside.

A. MAIN INLET RELIEF VALVE SETTING

1. Loosen jam nut on adjustment "A".
2. Hold the TAILGATE lever to the closed position and verify that the tailgate is fully closed.
3. With the tailgate lever continously held in the closed position, increase engine RPMs to between 1200–1400 RPMs.
4. Recommended pressure is 2500 ± 50 PSI. (Adjust "A" as required.)
5. After setting pressure, tighten adjustment jam nut and repeat steps 2 and 3 to verify pressures. Re–adjust as required.

NOTE: Units are equipped with non–adjustable work port reliefs in the in, up, and down hydraulic circuits. The pressures for these three functions are factory set, but can be verified by performing steps 1, 2, and 3 of items B, C, and D.

B: "IN" PRESSURE RELIEF

1. Have operator activate IN/OUT control lever to "out" until the IN/OUT cylinder is extended (mast extended away from body.)
2. Continue to hold control lever in the "out" position and increase the engine speed to 1200–1400 RPM.
3. Recommended pressure is 2100 ± 50 PSI.

CAUTION: THE LIFT SHOULD BE FULLY EXTENDED FOR ADJUSTMENT STEPS C AND D.

C: UP PRESSURE ADJUSTMENT

1. Have operator activate UP/DOWN control lever to the "up" position.
2. Continue to hold lever in the up position and increase engine speed to 1200–1400 RPM.
3. Recommended pressure is 2000 ± 50 PSI for 30" reach and 1700 ± 50 PSI for 48" reach.

D. DOWN PRESSURE ADJUSTMENT

1. Have operator activate UP/DOWN control lever to the "down" position.
2. Continue to hold lever in the down position and increase engine to 1200–1400 RPM.
3. Recommended pressure is 2000 ± 50 PSI for 48" reach and 1700 ± 50 PSI for 30" reach.

NOTE: If unit is not equipped with a grabber arm attachment, proceed to item "F".

E. GRABBER ARM PRESSURE ADJUSTMENT

1. Have operator close grabber arms and hold lever in the "grab" position.
2. With engine at idle, recommended pressure is 1300 ± 50 PSI.
3. Adjust pressure adjustment "E" as required.
4. Have operator open grabber arms and hold lever in the "release" position.
2. With engine at idle, recommended pressure is 1000 ± 50 PSI.
3. Adjust pressure adjustment "G" as required.

F. COMPACT, & TIMER PRESSURE SWITCH ADJUSTMENTS

NOTE: For this following procedure, it is recommended that it is done by two persons. Adjustments need to be completed correctly as machine failure, personal injury, or death could result if improperly done. See Page 3–6 for description of and how to adjust Pressure Limits Switches.

1. Open the cover on the chassis mounted control box located on the outside of the truck near the Impac control valve body. Exercise care not to drop anything into it or short any electrical connections.
2. Start engine, engage PTO, and increase engine RPMS to 1200–1400 RPMs.
3. Open the tailgate and fully extend the packer.
4. Block the tailgate limit switch so that the indicator in the cab shows that it is closed.
5. Have the operator place the mode switch to AUTOMATIC and depress the COMPACT button.
6. Decrease engine RPMs to idle, disengage PTO, and shut off engine.
7. In the chassis mounted control box, remove Timer Relay #38 (see Part Manual Page 3–4).
8. Repeat Step 2 and set the compact pressure on the pressure limit switch to 2150 ± 50.
9. Repeat Step 7, then reinstall Timer Relay #38.
10. Once the relay has been reinstalled, repeat Step 2.
11. With the packer at full compact, adjust the pressure limit switch which controls the timer to approx. 2100 ± 50. Then adjust the limit switch so that the timer disengages (Increase Pressure), then turn back until the timer has just engaged (Decrease Pressure).

G: MID–INLET PRESSURE ADJUSTMENT

1. Open tail gate and extend packer until fully extended.
2. Have operator turn extend/retract to extend and hold.
3. Increase engine speed to 1200–1400 RPM.
4. Recommended pressure setting is 2450 ± 50 PSI. Adjust "F" as required.
5. After setting pressure, tighten jam nut on adjustment "F" and repeat step 3 and 4 to re–verify pressure. Re–adjust as required.

FOR SERVICING THE TRUCK CHASSIS, REFER TO THE SERVICE SCHEDULE RECOMMENDED BY THE TRUCK CHASSIS MANUFACTURER.

AUXILIARY ENGINES: Refer to the service schedule recommended by the engine manufacturer. You will also find some of the more critical items relisted in the Central Tank system schedule.

IMPAC SYSTEM: Service periods referred to in this manual should be related to hours of service. Daily service should be done after eight (8) hours or one shift of operation. Weekly service after forty (40) hours or five (5) shifts of operation.

APPROVED LUBRICANTS:

Hydraulic System - Type "AW" or I.S.O grade 32.
S.U.S. @100° F__155 @210° F__44
Pour point -25° F

Mast, Compactor, and Other Body Parts - Use the same lubricant recommended by your chassis manufacturer.

DAILY - EIGHT (8) HOUR SERVICE:

Drive Shaft:

1. Check all drive shafts, universal joints, and attaching bolts (including PTO). Visually inspect and report defects immediately.

Mast and Mast Frame:

1. Lube mast
2. Lube frame
3. Lube optional attachments
4. Check tightness of camfollowers and nuts.
5. Check tightness of all masthanger bolts.

Compactor:

1. Lube skid track.

Hydraulic System:

1. Check fluid level.
2. Check all hoses for leaks.

Electrical Wire:

1. Check for bare spots or broken wires.
2. Check connections.

WEEKLY - FORTY (40) HOUR SERVICE:

1. Perform daily checks.
2. Lube tailgate hinge.
3. Lube tailgate lock shaft.
4. Clean and lube the limit wheel on the top of the body
5. Check skid wear pads.
6. Change hydraulic system filter after the first forty (40) hours of operation. Change on a 13 week (520 hour) schedule thereafter.

SERVICE AND MAINTENANCE
CLEANING BEHIND THE PACKER

CAUTION: NEVER ENTER THE PACKER AREA WITHOUT PERFORMING A LOCKOUT/TAGOUT PROCEDURE REFERENCED IN THE SAFETY SECTION OF THIS MANUAL.

CAUTION: FAILURE TO FOLLOW THE LOCKOUT/TAGOUT PROCEDURE MAY RESULT IN SERIOUS INJURY OR DEATH.

If your unit is equipped with a optional clean-out-door follow the LOCKOUT/TAGOUT procedures before performing any internal cleaning.

Your unit is equipped with Proximity Switches and Limit Switches to ensure your safety. Periodic inspection and testing of these switches are essential to prevent injury or death. **NEVER DISABLE OR BYPASS THESE SWITCHES.**

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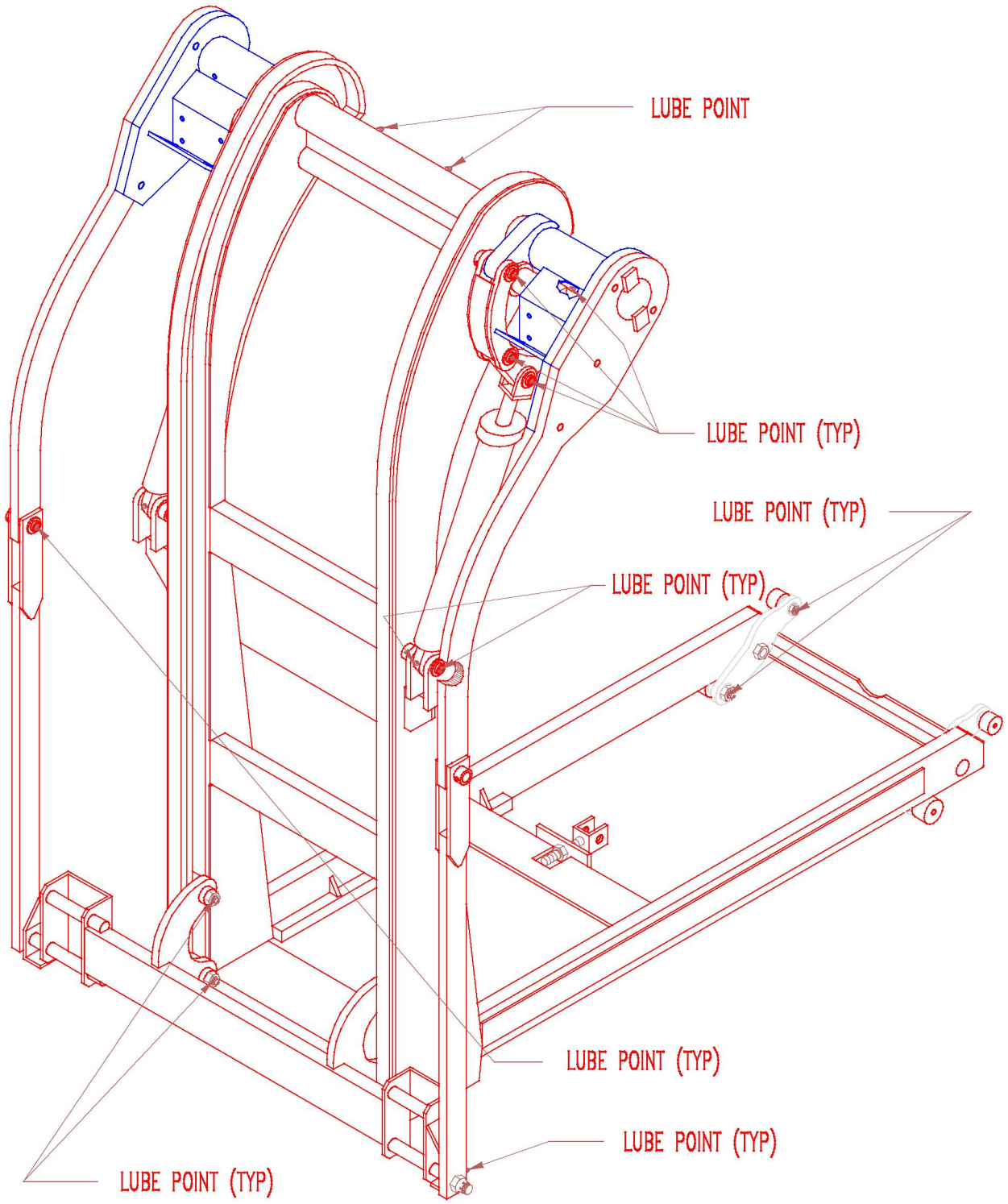
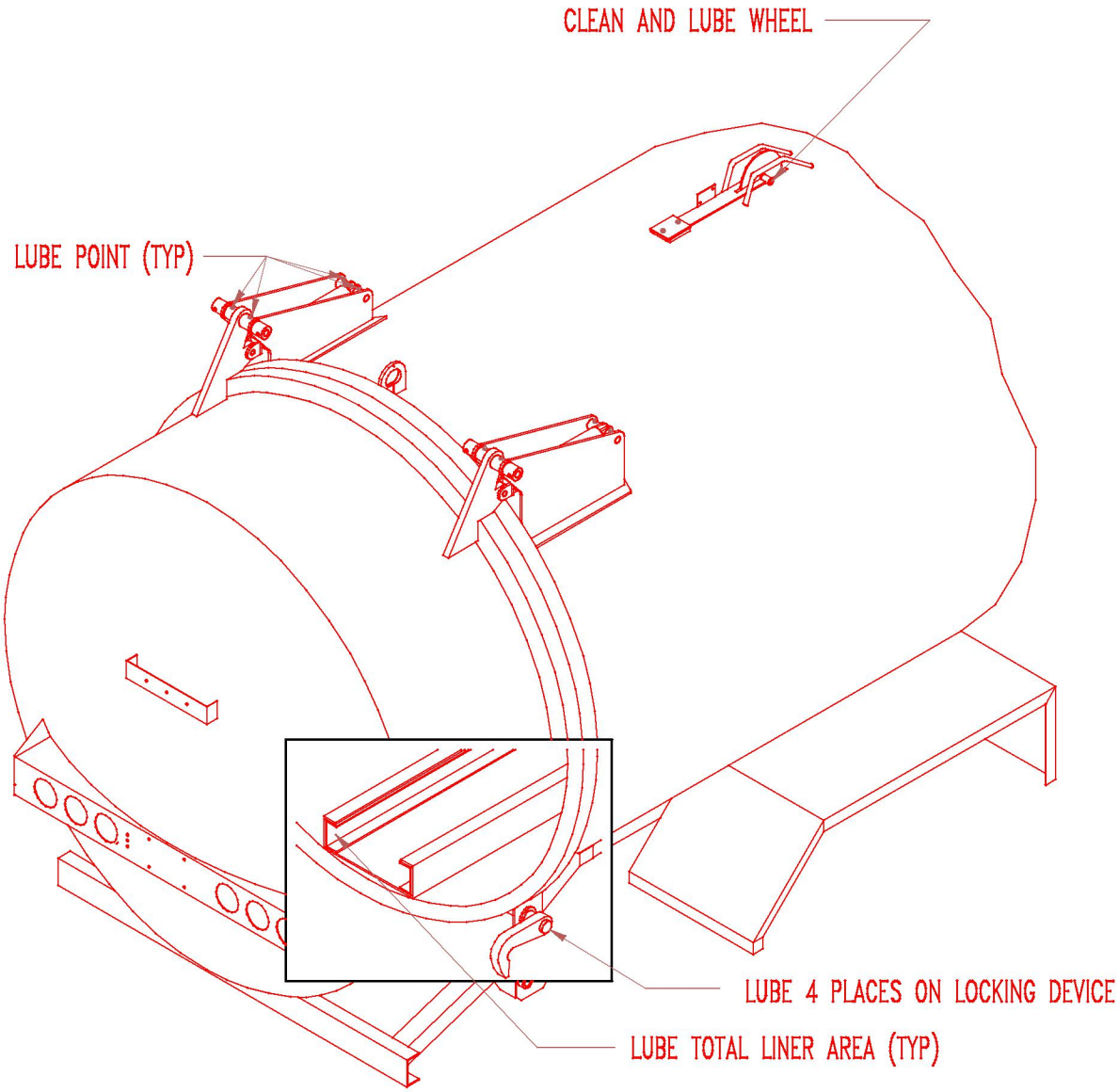
LUBRICATION

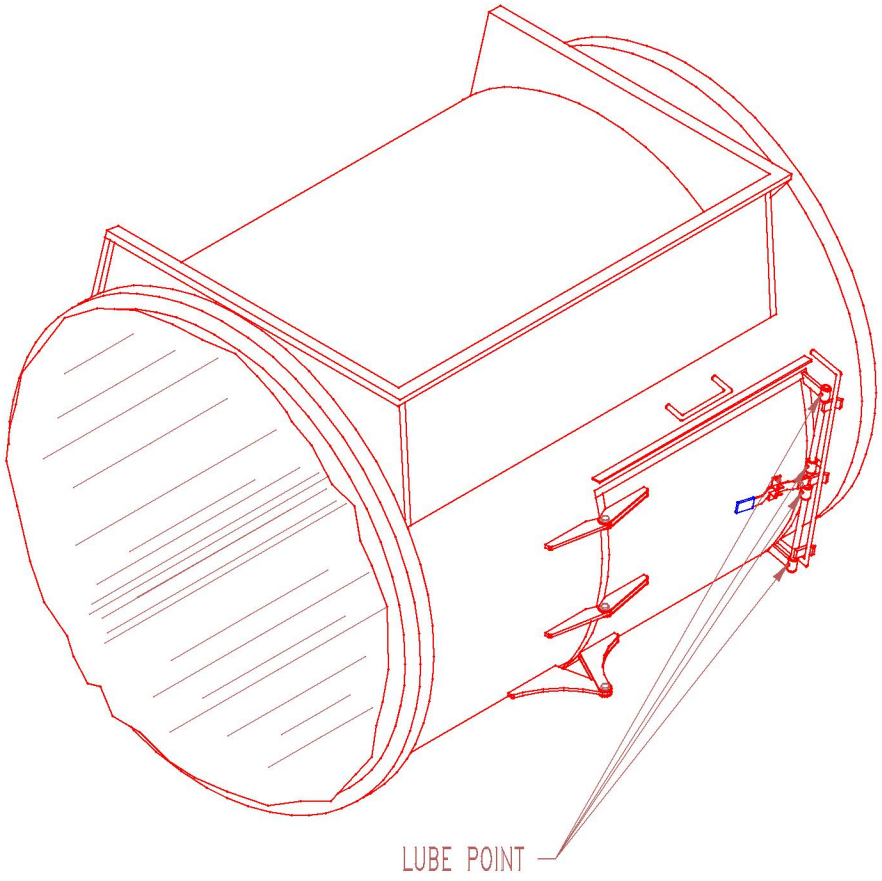
LUBRICATION
MAST AND LIFTING ATTACHMENTS



LUBRICATION
BODY GROUP



LUBRICATION
ACCESS DOOR



TROUBLE SHOOTING GUIDE

TROUBLE SHOOTING GUIDE

1. BOTH COMPACTOR AND LIFT NOT OPERATING, OR NOT OPERATING PROPERLY:

A. Check air pressure. (75 PSI minimum.)
B. Check access door and limit switch on door.
C. If applies, check optional clean-out door and limit switch on door.
D. Check hydraulic fluid for proper level.
E. Check reservoir valve for open position.
F. Check pump operation.
G. Check coupling or drive shaft.
H. Test cylinders for internal leakage.
   1. Run cylinder to maximum out position.
   2. Remove hose from retract end (head end) of the cylinder.
   3. Place control to extend (out) position. If oil flows from the open port, replace seals.
I. Test pressures.
   1. Install test gauge.
   2. Activate the circuit to be checked and hold until cylinder bottoms out. Maximum pressure is reached at this point.
   3. Proper pressure:

	30" Reach	48" Reach
Mast up	2000 PSI	1700 PSI
Mast down	1700 PSI	2000 PSI
Mast in	2100 PSI	2100 PSI
Mast out	2100 PSI	2100 PSI
Compact	2100 PSI	2100 PSI
Tailgate Up	1200 PSI	1200 PSI
Tailgate Down	2000 PSI	2000 PSI

2. LOW LIFT POWER:

A. Check pressure.
B. Check air controls.
C. Check cylinder seals.

3. CONTAINER STAYS IN DUMP POSITION:

A. Check air controls.
B. Check cylinder seals.
C. Check pressure.

4. LOW IN, OUT POWER:

A. Check pressure.
B. Check air controls.
C. Check cylinder seals.

5. TAILGATE WILL NOT RAISE:

A. Check control valve pressure.
B. Check cylinder seals.
C. Check top tailgate hinges for lubrication.

6. TAILGATE LATCH NOT OPERATING PROPERLY:
   A. Check control valve pressure.
   B. Check cylinder seals.

7. IN CAB TAILGATE CONTROL:
   A. Manually operate tailgate switch.
      1. If tailgate does not operate.
         (Refer to problems #5 and #6 of this manual.)
      2. If tailgate operates.
         a. Check electrical circuits.
         b. Check air solenoids.

8. NORMAL COMPACT. SLOW RETURN. LOW OR NO POWER.
   A. Check electrical circuits.
   B. Check air solenoids.

9. SLOW (WITHOUT LOAD) COMPACTOR OPERATION:
   A. Check compactor valve pressure.
   B. Check compactor cylinder.
      1. Run cylinder to maximum out position.
      2. Remove small compactor hose from the front of the body.
      3. Plug hose end.
      4. Activate compact. If oil flows from the open port, repair or replace cylinder.

10. POWER SOURCE CONTINUES TO LOAD WITH COMPACTOR IN FULL RETRACT POSITION:
   A. Check limit switch operation and adjust.
   B. Check for waste build up behind compactor blade.

11. COMPACTOR DOES NOT RETRACT AUTOMATICALLY:
   A. Check micro switch on top of the body for operation and proper contact.
   B. Check switch body for cracks.
   C. Check relay.
   D. Check control valve.
   E. Retract limit switch inside body.

12. COMPACT OPERATION STOPS WHEN COMPACT BUTTON IS RELEASED:
   A. Check micro switch on top of the body for operation and proper contact.
   B. Check switch body for cracks.
   C. Check relay switch.

13. MAST WILL NOT RAISE:
   A. Check front limit switch inside body.
   B. Check air solenoids.
   C. Check pneumatic activator.