AlleghenyShredders
THE SHREDDING INDUSTRY ICON SINCE 1967

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Allegheny Piggybacked Shredding System

16-Series Shredder
&
Model 2024-532 CE Horizontal Closed-End Baler

System Installation, Operations, and Maintenance Manual

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ALLEGHENY PIGGYBACKED SHREDDING SYSTEM

SECTION I

Pre-Operation Information

Introduction

Your new Allegheny Piggybacked Shredding System is the product of more than 50 years of manufacturing excellence. Made in America and built to last, your Hard Drive Shredder will provide you with problem-free operation for many years to come.

Your Shredding System is designed and manufactured to meet or exceed ANSI safety standards. The Shredding System is simple to operate and maintain. However, we do recommend that you familiarize yourself with the Shredding System before using it by reading this owner's manual carefully.

Allegheny Shredding Systems are designed and manufactured to provide an efficient and safe Shredding System. By following these instructions carefully, the operator can ensure a long and productive life for the Shredding System.

SECTION I of this owner's manual provides safety and pre-operation testing information. These procedures must be carefully followed to avoid accidents to personnel and/or damage to the Shredding System.

SECTION II reviews operating instructions for the Shredding System.

SECTION III provides the operator with routine maintenance information. It is important to follow these guidelines exactly to ensure the efficient and safe operation of the Shredding System.

SECTION IV This section covers troubleshooting procedures to assist the operator should minor problems arise.

SECTION V This section covers your Shredding System if it fails to operate properly.

INSTALLATION:

Allegheny does not assume responsibility for installation of this equipment. The installer is responsible for conforming to all applicable local, state, and federal laws, manufacturer's recommendations, and all appropriate ANSI standards.

Positioning:

The Allegheny Shredding System should be positioned so that sufficient room is available for proper and safe operation. The Shredding System must be placed not less than thirty-six (36) inches from any structure to allow room to insert the wires through the RAM and tie off the bale. Also, enough room in front of the Shredding System must be present to allow the bale chamber door to swing fully open so the finished bale can be ejected.

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SECTION I

SAFETY INSTRUCTIONS

IMPORTANT: READ THESE SAFETY INSTRUCTIONS BEFORE OPERATING THE SHREDDING SYSTEM

To prevent accidents to either personnel or damage to the Shredding System, the operator MUST NEVER VIOLATE ANY OF THE FOLLOWING SAFETY PRECAUTIONS. It is the client's responsibility to ensure these guidelines are known and followed by all operators of the Shredding System.

1. Read and understand this instruction manual and these warnings before you operate your Shredding System.
2. Do not place hands or any part of the body in Shredding System.
3. Do not operate the system under influence of drugs, alcohol, or medication.
4. Keep all guards and covers in place while the system is running.
5. Hydraulic fluid is the primary element of power transmission on the Shredding System. Remember that hydraulic systems can remain pressurized even after the motor has stopped and or the power disconnected.
6. For reasons of safety, only use service technicians authorized by Allegheny.
7. Remember: Always operate the Shredding System within the safety guidelines set forth in this manual.
8. We do everything possible to make our Shredding System safe to own and operate. Please do your part by complying with the recommended operating procedures and the following safety instructions. Safety is a job for all of us.

MAINTENANCE SAFETY:

1 Disconnect and LOTO (Lockout/Tagout) shredder from the power supply before performing maintenance or service. Refer to OSHA 1910.147, "The control of hazardous energy (Lockout/Tagout)".

2 Replace and securely fasten all guards and safety covers before reconnecting shredder to the power supply. Refer to OSHA 1910.212, "Machinery and Machine Guarding", General Requirements for all machines.

For reasons of safety for yourself and others, use only service technicians authorized by Allegheny Paper Shredders Corporation.

ELECTRICAL:

Your Allegheny Piggybacked Shredding System is factory-wired for a 208, 230, or 460 Volt, 3-phase, 60 cycle power supply.

Check the serial number plate (located on the output end of the Shredding System) for the proper voltage and full-load amperage. (International voltages are 380 or 415 Volt, 3-phase, 50 cycle power supply or 575 Volt, 3-phase, 60 cycle power supply.)

Your Shredding System is equipped with a three-pole, four-wire locking type plug that connects to a matching receptacle supplied with your Shredding System. Have an electrician install the receptacle into your electrical system.

NOTE:

1. Your Shredding System is equipped with thermal overload relays for motor overload protection. For branch circuit protection, we recommend the use of dual-element time-delay fuses.
2. An electrical diagram is located on the inside cover of the electrical enclosure on your Shredding System.

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SECTION II

The following guidelines outline the proper operating procedures for the Allegheny Model 2024-532 CE horizontal Shredding System.

Before turning on the Shredding System, check that the proper voltage is supplied to the motor starter. Check the serial number plate (located on the cover of the electrical enclosure) for the proper voltage.

Pre-Operation Safety Checks:

1. Be sure that no one is servicing any part of the Shredding System.
2. Check that the Bale Chamber is free of foreign objects.
3. Check that the Input Conveyor Belt is free of foreign objects.
4. Check for visible hydraulic fluid leaks.
5. Visually check the sight gauge mounted on the side of the hydraulic fluid reservoir. It should indicate that the reservoir is full.
6. If it is necessary to add hydraulic fluid to the reservoir, remove the filler cap and fill the reservoir with a premium grade hydraulic fluid until the sight gauge indicates full. (We recommend using ISO Grade 68 oil or ISO Grade 32 oil for very cold environment.)

   NOTE: DO NOT OVERFILL
7. Be sure that all guards and covers are in place and securely fastened.
8. Be sure the bale chamber door is securely closed.
9. Check that all **red** Emergency STOP buttons are pulled out. If the Emergency STOP button is depressed, the Shredding System cannot be started until the Emergency STOP button is pulled out.
10. Next, press the **green** FORWARD button and check the motor rotation. Looking into the fan end of the motor, correct rotation is "Clockwise." If the rotation is backwards, stop the motor "Immediately" or else you risk damaging the hydraulic pump. To correct the problem of counterclockwise rotation, have a qualified electrician reverse any two (2) of the three incoming power leads at the top of the motor starter.
11. To test the equipment, simply operate the empty Shredding System as directed in the "Operation" section of this manual

Start-up: (Baler Control)

1. Turn the disconnect switch to the "**ON**" position. The "POWER **ON**" light should illuminate.

Baler Control Panel

2. Turn the control panel key to the "**ON**" position.
3. Turn the Auto/Manual/Start switch to START position and back to the AUTO position. The "Shredder's amber **ON**" light should illuminate.
4. Depress the **Black** REVERSE button and retract the RAM to the home position.

   NOTE: The Shredding System should be in the "Home" position before switching to the AUTO position.
5. Proceed to the Operation Section.

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Operation:

1. Using the Shredder Control to begin the shredding process:

Shredder Control Panel

   a. Depress the **green** FORWARD button.

   b. Proceed to fill the shredder with a small amount of paper to get the feel of the Shredding System.

   c. For optimum confidentiality, shred documents diagonally or across (perpendicular to) the lines of print.

   d. After becoming familiar with the Shredding System, you will be able to judge the amount of material to feed into the Shredding System for efficient shredding.

   e. The shredder will shred thick bound reports, file folders, audio cassettes, computer diskettes, and multiple sheets of microfiche, crumpled papers, paper cups, beverage cans, small boxes, and other wastebasket contents with no manual flattening or sorting required.

2. Shredded material will start to accumulate in the baler's hopper (from the output of the shredder) until such a time as the photo-electric cell is blocked.

3. At this point, the baler's motor will start (automatically) and the RAM will make a complete cycle compressing the shredded material in the baling chamber and returning to shut off.

4. If a paper jam occurs, proceed to IF A JAM OCCURS for instruction to clear the jam.

5. This process will repeat itself until a full bale is formed.

6. When a full bale has been formed on the Baler Control Panel:

   a. The RAM will stop, the buzzer will sound, and the "TIE BALE" **amber** light will illuminate.

   b. Turn the Auto/Manual/Start switch to the MANUAL position.

      NOTE: In the MANUAL position, the buzzer sound will stop.

   c. Proceed to Bale Tying Section to tie off the finished bale.

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BALE TYING:

1. To tie off the finished bale:
   a. Push in the Emergency STOP button. Insert the bale wire (straight end of the wire) through all three (3) slots in the RAM face.

   b. Leave about six (6") inches of wire (loop end) extending out. After making a few bales you will be able to judge the proper wire length that works best.

   c. Insert the wire rod into the top slot in the Shredding System door.

   d. From the other side of the baling chamber, hook the baling wire to the end of the wire rod.

   e. Pull the wire rod through the door slot.
   f. Repeat steps 1.c through e with the middle and bottom wire.

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2. To start the baler on the Baler Control Panel:
   a. Turn the Auto/Manual/Start switch to **START** and release, the switch will return to the MANUAL position. (Be sure to pull out the red Emergency STOP button.)
   b. Press the "**Forward**" button and extend the RAM forward to compress the bale.
   c. If necessary, push in the Emergency **STOP** button to shut off the baler and tie the wires together.

      NOTE: Be sure to cut off any excess wire. A pair of lineman's pliers or Vise Grips will be helpful.

   d. Set the Auto/Manual/Start switch to START and then to the **AUTO** position. (Be sure to pull out the red Emergency STOP button.) The RAM will return to the "Home" position. Then open the baler door.
   e. To open the bale chamber door, push and hold the REVERSE button then pull the hydraulic handle.

   f. To pivot bale chamber door, carefully swing the chamber door fully open to allow for bale ejection.
   g. After opening the bale chamber door set the Bale Length Bar over the end of the tied bale.

   h. As the tied bale is ejected this bar must move out with the bale.
   i. Pull out the Emergency STOP button. Turn the Auto/Manual/Start switch to START and then to the AUTO position.
   j. Resume shredding.

3. To Remove Bale:
   a. While the current bale is being formed in the baling chamber, it will gradually eject the previous bale.
   b. When the buzzer sounds and the "REMOVE BALE" **amber** light illuminates, the previous bale should be removed.
   c. Push in the **red** Emergency STOP button to shut off the baler.
   d. Return the Bale Length Bar to its original position.
   e. Remove the tied bale.

      NOTE: The length of the Bale Length Bar is adjustable by repositioning the steel collar on the end of the bar.

   f. If there is difficulty in removing the bale. Switch the Auto/Manual/Start switch to START and release, the switch will return to the MANUAL position.
   g. Pull out the Emergency STOP button and depress the **green** FORWARD button to move the bale forward a little.
   h. On the Baler's control panel, depress the REVERSE button to return the RAM to the "Home" position.
   i. Depress the **red** Emergency STOP button.
   j. Close the bale chamber door.
   k. To close the bale chamber door, carefully swing the chamber door closed so that the door latch will fully catch.

4. To Start the baler:
   a. Depress and hold the REVERSE button.
   b. Push on the hydraulic handle to pivot the chamber door latch closed.

      IMPORTANT: Be sure the chamber door is properly and securely fastened.

   c. Turn the Auto/Manual/Start switch to START and then to the AUTO position.

5. Resume shredding.

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IF A JAM OCCURS:

1. The Shredding System will stop automatically. Any jam or other overload condition resulting in a measurable increase in motor current will cause the AC current relay to open the forward contactor in the reversing starter.

   NOTE: This stops FORWARD operation of the Shredding System without tripping the overload protection relay. There is no need to reset the AC current relay since it has an automatic reset.

2. Depress both yellow REVERSE buttons.

   CAUTION: Do not under any circumstances attempt to clear a jam by placing your hand or any other part of your body into this Shredding System while it is running or connected to the power supply.

3. After a jam has occurred, the green FORWARD button will not operate until both yellow reverse buttons have been depressed for several seconds. (This allows time for the materials to return to the operator so the jam can be cleared.)

4. Separate materials to clear the jam before pressing the green FORWARD button again.

   NOTE: Attempting to force too much material through the cutting assembly can damage the Shredding System.

5. If the shredder does not reverse, depress the manual RESET button (located on the cover of the Shredding System's electrical enclosure).

6. If the RESET button has tripped, it will be necessary to wait a few minutes before pressing it. This will allow the thermal overload relay to cool to its proper ambient temperature.

7. If you wait a few minutes and the Shredding System still does not operate, refer to the "Troubleshooting" section of this manual.

8. After the jam has been cleared, press the FORWARD button and continue shredding.

9. If jam reoccurs, repeat the reversing operation until the Shredding System can shred materials as fed into it.

10. If jam cannot be cleared as instructed above, disconnect and lockouts Shredding System from the power supply (see OSHA 1910.147) and manually remove the jam. Before restarting Shredding System, make sure all guards and safety covers are properly secured

SECTION III

PREVENTIVE MAINTENANCE (16-Series)

Warning: Disconnect and lockout Shredding System from the power supply before performing maintenance or service (see OSHA 1910.147). Replace all guards and safety covers before reconnecting Shredding System to the power supply.

Maintenance timetable is computed for a 6-8-hour day, 5 days per week. If your Shredding System is operated for longer periods, increase maintenance frequency proportionally.

DAILY:

1. Remove the top safety cover over the cutting assembly (4 screws).
2. Remove the output chute (2 screws located on the inside of the chute).
3. Clean the entire cutting assembly of any excess shredded material. To save time and effort, we recommend using compressed air and a "wet and dry" shop vacuum to clean material out of the cutting assembly. Also be sure to clean underneath the cutting assembly.
4. Spray the entire cutting assembly with LPS-1 spray lubricant (refer to separate instructions: Service Procedure "Shredding Supplies").
5. Replace and securely fasten the output chute or the output safety shield, and the top safety cover over the cutting assembly.
6. Remove accumulated shredded material from the waste drawer located under the cutting assembly.
7. Before operating the Shredding System:
   a. Properly replace and fasten all safety covers that were removed for performing maintenance.
   b. Make sure no foreign objects (tools, screws, etc.) are the input conveyor.
   c. Reconnect Shredding System to the power supply and resume shredding.

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MONTHLY:

1. Perform "*Daily*" preventive maintenance.
2. Lubricate the flange-mounted bearings via the grease fittings located on the bearing assemblies on either side of the cutting assembly:

   NOTE: To prevent contaminants, be sure to thoroughly clean each grease fitting before lubrication.
3. Press the green FORWARD button. While Shredding System is running, Use EP-2 grease lubricant ("Shredding Supplies"). Use 3-4 full pumps for each grease fitting.
   - Spur/drive gears 10-12 full pumps.
   - Top bearings 4-5 full pumps (2 bearings)
   - Bottom bearings 4-5 full pumps (2 bearings)
4. Visually inspect the motor drive belts. If there are any signs of abnormal wear (fraying, etc.), call for service, or refer to Service Procedure. Removal/Installation of Motor Drive Belt.
5. Before operating the Shredding System:
   a. Properly replace and fasten all safety covers that were removed for performing maintenance.
   b. Make sure no foreign objects (tools, screws, etc.) are the input conveyor.
   c. Reconnect Shredding System to the power supply and resume shredding operation.

ONCE EVERY THREE MONTHS:

1. Perform "*Daily*" preventive maintenance.
2. Perform "*Monthly*" preventive maintenance
3. Remove control panel (2 screws), then remove both the right and left side safety covers of the Shredding System.
4. When the drive belt is properly adjusted it will not slip. As with all new drive belts, the motor drive belt will stretch with use and will need to be readjusted. Do not allow the drive belt to become so loose that it slips (squeals). This will reduce the life of the drive belt.
5. Check for bolt tightness in torque arm and bracket assembly. Tighten bolts if necessary.
6. Check tension and tracking of input conveyor belt (and an output conveyor, if applicable).
7. If an adjustment to the conveyor belt is necessary, do the following:
   a. To Adjust Tension of Conveyor Belt:
      1. To tighten the conveyor belt, adjust the tensioning nuts so that the idler roller moves away from the conveyor frame assembly.
      2. Tension should be just enough to prevent slippage. The underside of the conveyor belt should have a slight amount of slack in it.
      3. Make sure no foreign objects (tools, screws, etc.) are on the input conveyor.
   b. To Adjust Tracking of Conveyor Belt:
      1. The conveyor belt should track in the center of the conveyor frame. To correct misalignment, extend the appropriate conveyor belt tensioning adjuster.
      2. To move the conveyor belt to the right, extend the left side adjuster.
      3. To move the conveyor belt to the left, extend the right-side adjuster.
      4. One-half turn per adjustment is all that is necessary. Allow the equipment to run a few minutes before adjusting again.

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8. When the conveyor belt has been adjusted so that it is tracking in the center of the conveyor frame, tighten the locking nuts on the backside of the adjustment assembly (if applicable).
9. Examine the entire Shredding System for signs of abnormal wear or any leakage of oil. If found, discontinue use of the Shredding System and call for service. (Refer to "Service Section V").
10. Before operating the Shredding System:
    a. Properly replace and fasten all safety covers that were removed for performing maintenance.
    b. Make sure no foreign objects (tools, screws, etc.) are on the input conveyor.
    c. Reconnect Shredding System to the power supply.

ONCE A YEAR:

1. Perform "*Daily*" preventive maintenance.
2. Perform "*Monthly*" preventive maintenance.
3. Perform "*Once every three Months*" preventive maintenance.
4. Remove control panel (2 screws), then remove right side safety cover of the Shredding System.
5. Lubricate motor bearings via the two grease fittings located on opposite ends of the motor.

   NOTE: To prevent contaminants, be sure to thoroughly clean each grease fitting before lubrication.
6. Use EP-2 grease lubricant (Service Section V "Shredding Supplies"). Use 3-4 full pumps of a grease gun for each grease fitting.
7. Before operating the Shredding System:
    a. Properly replace and fasten all safety covers that were removed for performing maintenance.
    b. Make sure no foreign objects (tools, screws, etc.) are on the input conveyor.
8. Reconnect Shredding System to the power supply and resume shredding.

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PREVENTATIVE MAINTENANCE (Baler)

WARNING: BEFORE PERFORMING ANY MAINTENANCE, TURN POWER OFF, REMOVE CONTROL PANEL KEY, AND DISCONNECT SHREDDING SYSTEM FROM POWER SUPPLY.

INITIAL CHECK OUT:

Check hydraulic lines and connections for oil leaks.

Check for proper hydraulic fluid level with the cylinder fully retracted.

HYDRAULIC:

It is critical to the operation of the Shredding System that all foreign matter is kept from the hydraulic fluid.

1. Change oil filter after 100 hours and every 6 months thereafter. Be sure Shredding System is disconnected from power supply. Only change oil filter when hydraulic oil is cool.
2. To prevent voiding Shredding System warranty, only use authorized Shredding System components from the manufacturer.
3. At every 6 months or 2000 hours of operation, the reservoir, suction strainer, and air vent filter should be cleaned.
4. Once a year, have the hydraulic fluid tested and replaced fluid if necessary.

EVERY MONTH OF OPERATION:

1. Check hydraulic lines and connections for oil leaks.
2. Check for proper hydraulic fluid level with the cylinder fully retracted.
3. To prevent overheating of hydraulic oil, be sure that all paper dust is removed from the surface of the hydraulic power pack.
4. If necessary, remove the motor fan cover to clean.

SECTION IV

TROUBLESHOOTING (16-Series):

Warning: Disconnect and lockout Shredding System from the power supply before performing maintenance or service (see OSHA 1910.147). Replace all guards and safety covers before reconnecting Shredding System to the power supply.

Problem: **Shredding System will not operate in forward and/or reverse.**

Solutions:

1. Be sure that the Emergency STOP button is pulled out.
2. Check for proper operation of the control panel key/lock assembly. (The amber indicator light should be illuminated).
3. If the indicator light is illuminated and Shredding System still won't operate, depress the manual RESET button (located on the cover of the Shredding System's electrical enclosure).
4. If the thermal overload relay has tripped, it will be necessary to wait a few minutes before pressing the RESET button. This will allow the thermal overload relay to cool to its proper ambient temperature.
5. Once you have reset the thermal overload relay, check for proper operation of the Shredding System. If Shredding System still does not operate, do the following:
   a. Check that the Shredding System is properly plugged into the electrical receptacle.
   b. Check for power at the branch circuit disconnects. Replace fuses if necessary.
   c. If there is no power at branch circuit disconnect, check your main panel board for a tripped circuit breaker or blown fuses.
   d. Reset main panel circuit breaker or replace fuses if necessary.
5. Check whether the cutting assembly is free of shredded material. If necessary, refer to "*Daily*" maintenance in the "Preventive Maintenance" section.

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Problem: **Shredding capacity is low**

Solutions:

1. Cutting assembly may need to be cleaned and oiled. If necessary, refer to "Daily" maintenance "Preventive Maintenance" section.
2. Visually inspect the motor drive belts. If there are any signs of abnormal wear (fraying, etc.), call for service, or refer to Service Procedure Removal/Installation of Motor Drive Belt
3. When the drive belt is properly adjusted it will not slip. As with all new drive belts, the motor drive belt will stretch with use and will need to be readjusted. Do not allow the drive belt to become so loose that it slips (squeals). This will reduce the life of the drive belt.
4. Check for required voltage at wall receptacle.
5. Shredding capacity may decrease if other equipment is operating on the same electrical circuit.

Problem: **The input and/or output conveyor belts are slipping, improperly tracking, or not moving at all.**

Solutions:

1. Check if the Shredding System is running and the cutting assembly is turning.
2. Check that no foreign object is obstructing the conveyor belt.
3. Clean out any shredded materials that may have accumulated inside the conveyor belt.
4. Adjust the tension and tracking of the conveyor belt. (For proper adjustment of conveyor belts, refer to "Once every three months" Preventive Maintenance section).
5. If conveyor belts show signs of damage (torn lacings, excessive wear, etc.), call for service.
6. Check that lock nut on torque limiter is firmly tightened. Be sure fiction disks are intact. Torque limiter may require adjustment or replacement. For specific procedures, call for service or refer to separate instructions" Morse Torque Limiters".
7. Check whether drive chains are intact. If a drive chain is broken, discontinue use of Shredding System, call for Service. (Refer to "Service" Section V).

Problem: **Crusher paddle does not rotate**

Solutions:

1. Check that locknut on torque limiter is firmly tightened. Be sure fiction disks are intact. Torque limiter may require adjustment or replacement.
2. For specific procedures, call for service or refer to separate instructions "Morse Torque Limiters".
3. Check to see whether drive chain is intact. If a drive chain is broken, call for service. (Refer to Service Section V.)

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TROUBLESHOOTING (Baler)

WARNING: BE SURE TO DISCONNECT SHREDDING SYSTEM FROM POWER SUPPLY BEFORE PERFORMING TROUBLESHOOTING OPERATIONS.

If covers or safety features need to be removed for troubleshooting, be sure these are replaced and securely fastened before reconnecting power.

Motor will not operate

1. Check for proper operation of the control panel key/lock assembly. (The "Power On" light should be illuminated.)
2. If "Power On" light is illuminated and the motor still won't operate, depress the manual RESET button (located on the cover of the Shredding System's electrical enclosure).

   NOTE: If the thermal overload relay has tripped, it will be necessary to wait a few minutes before pressing the Reset button. This will allow the thermal overload relay to cool to its proper ambient temperature.
3. Once you have reset the thermal overload relay, check for proper operation of the Shredding System.
4. If Shredding System still does not operate, do the following:
   a. Check that the Shredding System is properly plugged into the electrical receptacle.
   b. Check for power at the branch circuit disconnects. Replace fuses if necessary.
   c. If no power at branch circuit disconnect, check your main panel board for a tripped circuit breaker or blown fuses.
   d. Reset main panel circuit breaker or replace fuses if necessary.
5. Motor runs but RAM does not move:
   a. Check operation mode.
   b. Check for proper operation of limit switches.
6. Shredding System will not auto cycle, check and clean photocell and reflector alignment.

ELECTRICAL

INITIAL CHECK OUT:

a. Check the limit switches for proper mounting and that the arms are properly aligned.

b. Check the photoelectric cell on the Shredding System feed hopper for proper operation and reflector alignment.

MECHANICAL

a. Check for proper tightness of all screws and bolts, especially those fastening safety guards.

b. Check the bale door hinges for free movement

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SECTION V

SERVICE

If you have followed all troubleshooting instructions and your Shredding System still fails to operate properly - or if there are signs of abnormal wear, vibration, noise, or leakage of oil - call for service. Contact your authorized Allegheny dealer or the Allegheny Factory Service Department at:

(800) 245-2497

E-mail: solutions@alleghenyshredders.com

Website: www.alleghenyshredders.com

When calling for service or ordering parts, please specify:

1. The model number and a serial number of your Shredding System.
2. The specific problem you are having with your Shredding System.

Shredding Supplies

Contact your authorized Allegheny dealer for supplies or the Allegheny Factory as indicated above.

Plastic Bags for disposal of shredded material are made of tough, clear, 2 mil virgin polyethylene. Each 55-gallon bag measures 40"W x 48"H. Tested when full to withstand a 20-foot drop without breaking.

Plastic bags come in dispensing rolls - 100 bags or 250 bags per roll.

LPS-1 Spray Lubricant is for proper lubrication of the cutting assembly on all Allegheny Shredding Systems. It contains an environmentally safe, non-flammable propellant.

LPS-1 spray displaces moisture and leaves a thin dry lubricating film on the cutters. It does not collect dust and does not stain.

LPS-1 allows your Shredding System to operate more quietly and efficiently, without the gummy buildup associated with conventional spray oils. (Available in 11 oz. spray cans.)

EP-2 Special Grease Lubricant is for the proper lubrication of the torque limiter chains and spur/drive gears, roller bearings, outboard bearing, and motor bearings on all Allegheny conveyor-fed shredders. EP-2 grease lubricant inhibits rust, prevents seizure, and extends the life of moving parts. (Available in 12 oz. cartridges for grease gun dispensing.)

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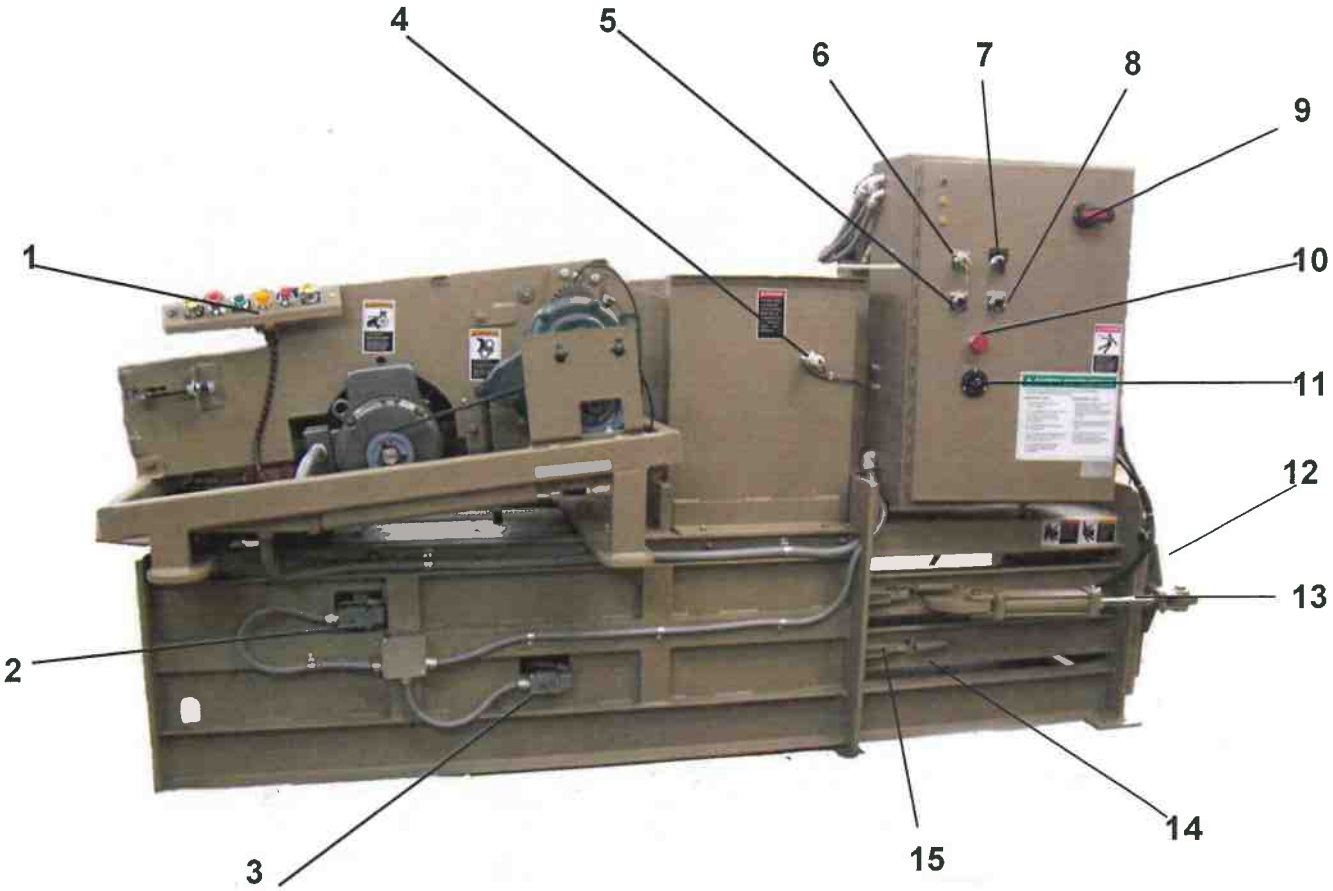
ALLEGHENY PIGGYBACKED SHREDDING SYSTEM
Model 2024-532 C Horizontal Closed-End Baler

PARTS



1. Shredder Control Panel
2. RAM (HOME) Limit Switch
3. RAM (FORWARD) Limit Switch
4. Hopper Photoeyes (High Level Switch)
5. FORWARD Push Button Switch
6. Key OFF/ON switch
7. AUTO/MANUAL/START Selector Switch
8. REVERSE Push Button Switch
9. Disconnect Switch
10. Emergency STOP button
11. Hour Meter
12. Bale Chamber Door
13. Bale Chamber Door Cylinder
14. Bell dog (Hook) Spring
15. Bell dog (Hook)

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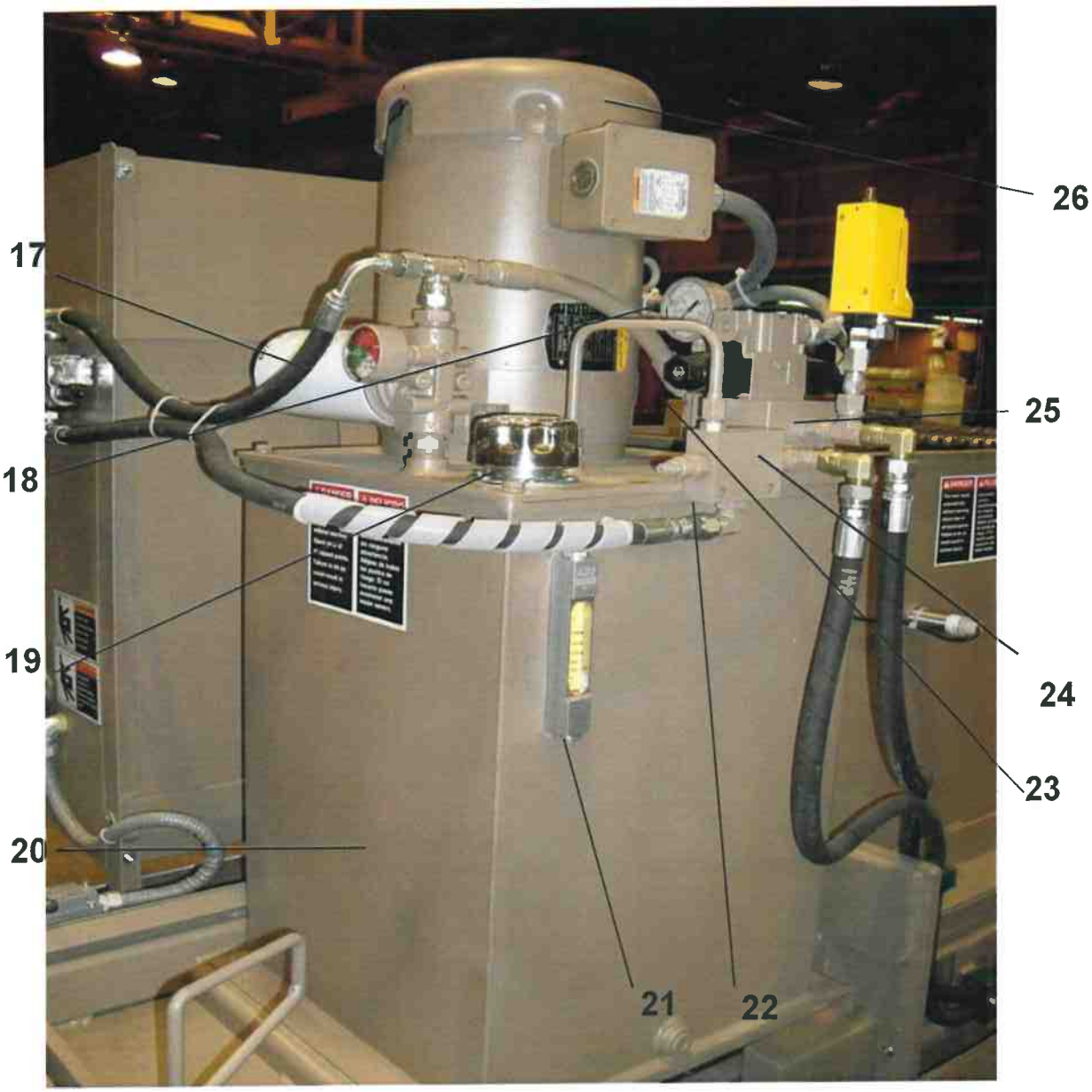
ALLEGHENY PIGGYBACKED SHREDDING SYSTEM
Model 2024-532 C Horizontal Closed-End Baler



17. Hydraulic Filter (10 Micron) SP-15-10
18. Pressure Gauge
19. Reservoir Cap
20. Reservoir Tank (20 gallons)
21. Reservoir Sight Glass
22. Regular Valve
23. Pressure Switch (preset 1200 psi)
24. High Pressure Switch Adjustment (2700 psi)
25. Low Pressure Switch Adjustment (2300 psi)
26. Motor (10 hp)

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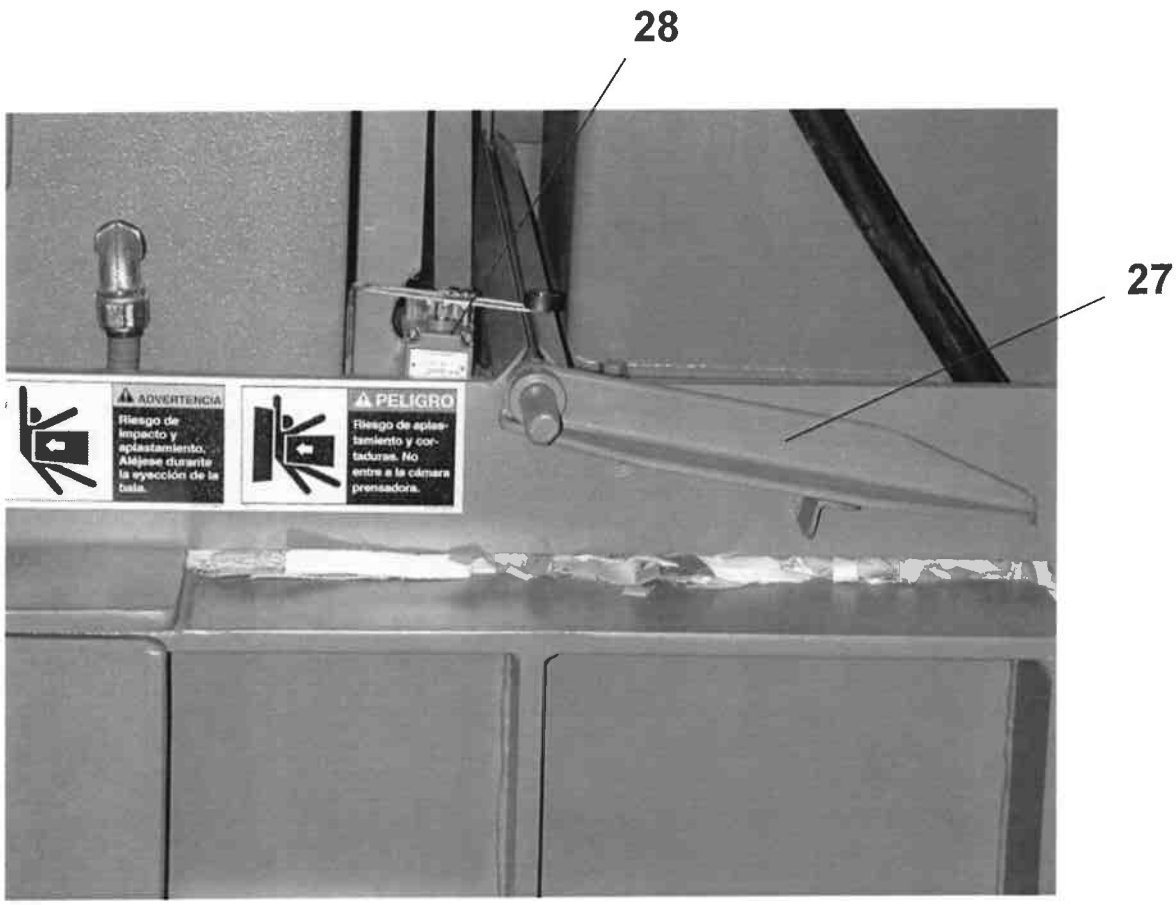

27. Bale Length Bar
28. Bale Length Bar Limit Switch

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