

# **CATTLEMAXX**

*Model: 105 & 150*

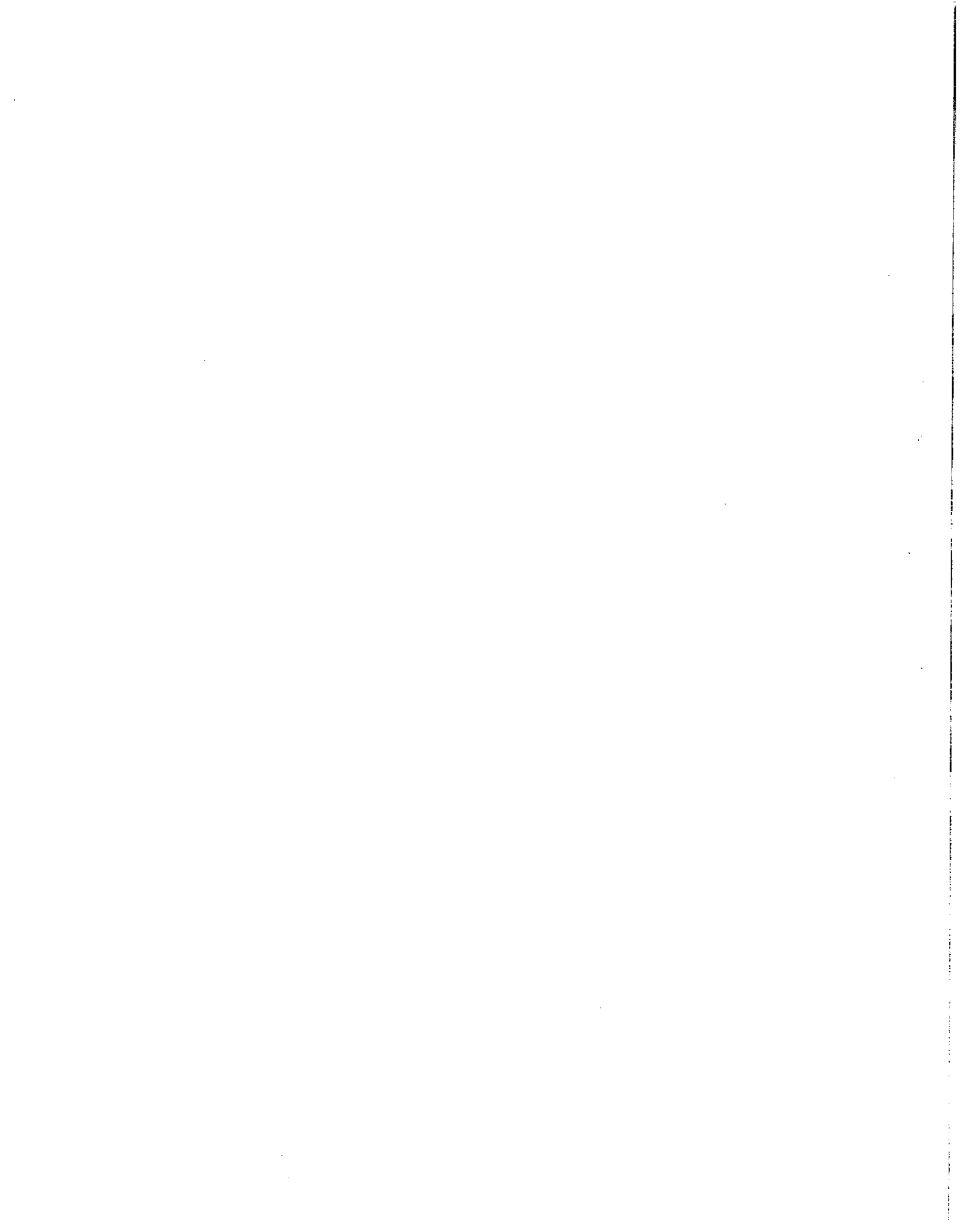
## **ILLUSTRATED PARTS LIST**

*This manual is for any CattleMaxx with serial numbers*

*Model 105 - AWPM25980455 or later*

*Model 150 - AWPM35980792 or later*

***Art's-Way Manufacturing Co., Inc.***



# **TO THE OWNER**

Congratulations on the purchase of your new Art's-Way CattleMaxx. You have selected a top quality machine that is designed and built with pride to ensure you have many years of efficient, reliable service.

Even if you are an experienced operator of this or similar equipment, *we ask you read the Operator's Manual before running this CattleMaxx.* The way you operate, adjust and maintain this unit will have much to do with its successful performance. Any further questions you may have about this piece of Art's-Way equipment should be directed to your local Art's-Way dealer or to Art's-Way Manufacturing Co., Inc., Armstrong, Iowa, 50514, (712) 864-3131.

## **Specifications And Design Are Subject To Change Without Notice**

Art's-Way Manufacturing Co., Inc. is continually making product improvements. In doing so, we reserve the right to make changes or add improvements to our products without obligation for the equipment previously sold.

Because modifications to this CattleMaxx may effect the performance, function and safety of its operation, no modifications are to be made without the written permission of Art's-Way Manufacturing Co., Inc. Any modifications made without the written permission of Art's-Way Manufacturing Co., Inc. shall void the warranty of this product.

In the interest of continued safe operation of the CattleMaxx, *pay particular attention to the safety alert symbol throughout this Manual.*

## **Art's-Way Manufacturing Co., Inc. Statement Of Product Liability**

Art's-Way Manufacturing Co., Inc. recognizes its responsibility to provide its customers with a safe and efficient product. Art's-Way attempts to design and manufacture its product in accordance with accepted engineering practices in effect at the date of design. This statement should not be interpreted to mean that our products will protect against the user's own carelessness or failure to follow common safety practices, as set forth in this manual, nor will Art's-Way be liable for any such act. In addition, Art's-Way assumes no liability for product altered or modified in any way by users or anyone other than an authorized dealer.

## **Important Warranty Information**

The warranty for this CattleMaxx appears on page iv of this Manual. In order to establish proper warranty registration, the Warranty Registration and Dealer Pre-Delivery Checklist must be completed and returned to the factory. Failure to comply with this requirement may result in reduced warranty allowances.

# **PARTS AND SERVICE**

As the new purchaser of your CattleMaxx, it is very important to consider the following factors:

- A. Original Quality**
- B. Availability of Service Parts**
- C. Availability of adequate Service Facilities**

Art's-Way Manufacturing Co., Inc. has an excellent dealership network ready to answer any questions you may have about your CattleMaxx. Parts for your machine may be ordered through our dealers. When placing a parts order, please have the model and serial number ready. This will allow the dealer to fill your order as quickly as possible.

For your convenience, we have provided this space for you to record your model number, serial number and the date of purchase, as well as your dealer's name and address.

**Owner's Name:** \_\_\_\_\_

**Owner's Address:** \_\_\_\_\_

**Purchase Date:** \_\_\_\_\_

**Dealership Name:** \_\_\_\_\_

**Dealership Address:** \_\_\_\_\_

**Dealership Phone No.:** \_\_\_\_\_

Building on a  
*Art's-Way*  
Tradition of Quality

SERIAL NO.

MODEL NO.

Manufactured By  
Art's-Way Manufacturing Co., Inc.  
Armstrong, IA

## **Machine Serial Number Location**

(Behind Ladder Left Hand Side)

Enter the serial number and model number of your CattleMaxx in the space provided above.

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# LIMITED WARRANTY

**Art's-Way Manufacturing Co., Inc.** warrants the products it sells to be free from defects in material and workmanship for a period of one (1) year after the date of delivery to the first purchaser, subject to the following conditions:

- **Art's-Way Manufacturing Co., Inc.** obligation and liability under this warranty is to repair or replace (at the company's option) any parts which upon manufacture were defective in material or workmanship.
- All parts and repairs under this warranty shall be supplied at an authorized **Art's-Way Manufacturing Co., Inc.** dealer or at the factory, at the option of **Art's-Way Manufacturing Co., Inc.**
- **Art's-Way Manufacturing Co., Inc.** warranty does not extend to parts and elements not manufactured by **Art's-Way Manufacturing Co., Inc.** and which carry the warranty of the other manufacturer.
- Transportation or shipping to an authorized dealer for necessary repairs is at the expense of the purchaser.
- **Art's-Way Manufacturing Co., Inc.** makes no other warranty expressed or implied and makes no warranty of merchantability or fitness for any particular purpose beyond that expressly stated in this warranty. **Art's-Way Manufacturing Co., Inc.** liability is limited to the terms set forth in this warranty and does not include any liability for direct, indirect, incidental or consequential damages or expenses of delay and the Company's liability is limited to repair or replacement of defective parts as set forth herein.
- Any improper use, and maintenance, including operation after discovery of defective or worn parts, operation beyond the rated capacity, substitution of parts not approved by **Art's-Way Manufacturing Co., Inc.** or any alteration or repair by other than authorized **Art's-Way Manufacturing Co., Inc.** dealer which affects the product materially and adversely, shall void this warranty.
- No dealer, employee or representative is authorized to change this warranty in any way or grant any other warranty unless such change is made in writing and signed by an officer of **Art's-Way Manufacturing Co., Inc.** at its home office.
- Some states do not allow limitations on how long an implied warranty lasts or exclusions of, or limitations on relief such as incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you the specific legal rights and you may have other rights which vary from state to state.

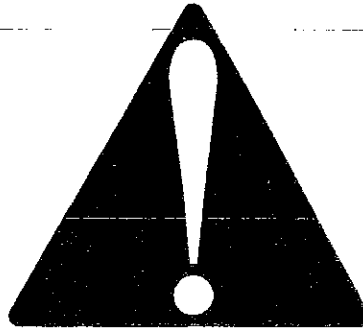
# SAFETY FIRST

***“A careful operator is the best insurance against an accident.”***

(National Safety Council)

Most accidents can be prevented if the operator:

- fully understands how the machine functions
- can anticipate situations which may produce problems
- can make necessary corrections before problems develop.



**Figure 1: The Universal Safety Alert Symbol**

The American Society of Agricultural Engineers has adopted the *Universal Safety Alert Symbol* (Figure 1) as a way to identify areas of potential danger if the equipment is not operated correctly. ***Please be alert whenever you see this symbol in the manuals or on your CattleMaxx.***

Art's-Way Manufacturing Co., Inc. strives to make our equipment as safe as it can possibly be. The CattleMaxx conforms to applicable safety standards at the time of manufacturing. A safety conscious equipment operator makes an effective accident-prevention program complete.

Safety features and instructions for the CattleMaxx models are detailed elsewhere in the Operator's Manual. It is the responsibility of the owner to ensure that *all* operators read and understand the Manual before they are allowed to operate the CattleMaxx. (*Occupational Safety and Health Administration (OSHA) regulation 1928.57.*)

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## **Notices of Danger, Warning and Caution**

Watch for these words on the CattleMaxx and in this Manual to alert you to important safety messages:



**DANGER:** Immediate and specific hazard which *will* result in severe personal injury or death if proper precautions are not taken.



**WARNING:** Specific hazard or unsafe practice *could* result in severe personal injury or death if proper precautions are not taken.



**CAUTION:** A reminder of good safety practices. Personal injury *could* result if proper procedures are not followed.



# SAFETY GUIDELINES



**CAUTION:** Remember, a careful operator is the best insurance against an accident.



**CAUTION:** Read and Understand the Operator's Manual and all the safety decals before operating the harvester. Review all safety instructions with all operators annually.

## Before Operating

- **Do not** wear loose fitting clothing as it may catch in moving parts.
- Make sure to install and/or secure all guards and shields, including the tractor power take-off master shield, before starting or operating the CattleMaxx.
- Be sure that the correct implement driveline parts are used and that they are properly secured.
- After servicing, be sure all tools, parts or servicing equipment are removed from the machine.
- Install the safety chain when attaching the CattleMaxx to the tractor.
- Clear the area of bystanders, especially children, when making repairs, adjustments or performing maintenance on the CattleMaxx.
- **Do not** allow riders.
- Put all tractor and machine controls in "neutral" and disengage the PTO before starting. Follow the starting instructions according to your tractor manual.

## During Operation

- Shut off the tractor engine, put key in pocket, and be sure to wait until all rotation has come to a complete stop before opening any covers, adjusting, cleaning, or lubricating.
- Do not attempt to remove any obstructions from the auger or belts while the machine is running.
- Keep hands, feet, hair and clothing away from moving parts.
- Keep all shields and guards in place and in good repair.
- Keep all children and bystanders away from the CattleMaxx while in operation.

- Always disengage the auger feeder before transporting.
- Be careful when ascending or descending the ladder. **Wet shoes or boots are slippery.**
- **Do not** attempt to unclog, clean or adjust the CattleMaxx while it is running
- Stay away from overhead power lines. Electrocutation can occur even without direct contact.
- Keep all hydraulic lines, fittings, and couplers tight and free of leaks. (See the Hydraulic Safety section, below.)

## Maintenance Safety

- Follow all operating, maintenance and safety instructions found in the Operator's Manual.
- Before servicing, adjusting, repairing or unplugging the CattleMaxx, stop the tractor engine, place all the controls in neutral, set the parking brake, remove the ignition key and wait for all moving parts to stop.
- Use only the tools, jacks and hoists that are of sufficient capacity for the job.
- Use support blocks or safety stands when changing tires or working under the machine.
- Follow good shop practices of keeping the service area clean and dry and use adequate light for the job at hand.
- Make sure all shields/guards are in place and properly secured when maintenance work is complete.

## Hydraulic Safety

- Before applying pressure from the hydraulic system make sure all lines, fittings and couplers are tight and in good condition.
- Relieve pressure from the hydraulic circuit before servicing or disconnecting from the tractor.
- Replace any worn, cut, abraded, flattened or crimped hoses.
- **Do not** make any temporary repairs to the hydraulic lines, fittings or hoses by using tape, clamps or cement. The hydraulic system operates under extremely high pressure and temporary repairs may fail suddenly and create a hazardous situation.



# SAFETY GUIDELINES

- Wear proper hand and eye protection when searching for a high-pressure hydraulic leak. Use a piece of wood or cardboard as a backstop instead of hands to identify and isolate a leak. If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Serious infection or toxic reaction can develop if hydraulic fluid penetrates the surface of the skin.
- Before applying pressure to the system, make sure all components are tight and that the lines, hoses and couplings are not damaged.

## Transportation Safety

- Be sure to comply with all local regulations regarding transporting equipment on public roads and highways.
- Make sure the **Slow Moving Vehicle (SMV)** emblem and all lights and reflectors required by local highway and transportation authorities are in place, clean and clearly visible to all oncoming or following traffic.
- **Do not** allow riders while transporting.
- Make sure the CattleMaxx is securely attached to the tractor and install a safety chain to the CattleMaxx. Install a retainer through the drawbar pin and attach the safety chain.
- **Do not** fail to latch the tractor brake pedals together.
- **Do not** exceed 20 mph when transporting the CattleMaxx. Always reduce speed on rough roads and surfaces, or when going down inclines.



**CAUTION:** Always transport a loaded mixer at slow speed (10 mph or less).

- Drive slowly when turning and always use turn signals on the tractor to indicate your turning intentions to the other traffic.
- The weight of the trailed machine should **NEVER** exceed the weight of the towing vehicle.
- Check clearances carefully whenever the machine is towed.
- Stay away from overhead or side obstructions and power lines during transport. Electrocutation can occur even without direct contact.

## Storage Safety

- Store the CattleMaxx in an area away from human activity.
- **Do not** permit children to play on or around the stored machine.
- Park the CattleMaxx on level ground.

## Tire Safety

- Have a qualified tire dealer or repair service perform tire repairs.
- **Do not** attempt to mount a tire unless you have the proper equipment and experience to do the job.
- Follow proper procedures when mounting a tire on a rim to prevent an explosion which could result in serious injury.
- **Do not** substitute tires of lesser road rating and capacity for the original equipment tires.



**CAUTION:** Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your dealer or a qualified tire repair service.

## Assembly Safety

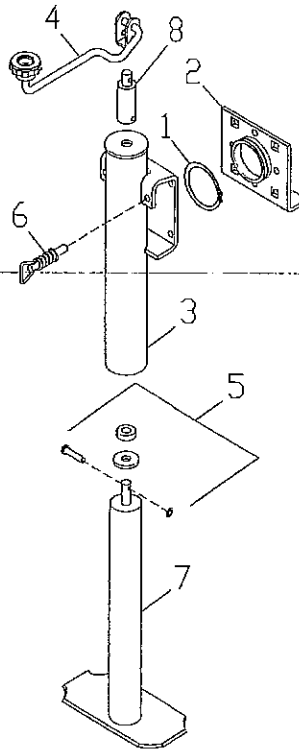
- Use adequate manpower to perform assembly procedures safely.
- Assemble the CattleMaxx in an area with sufficient space to maneuver the largest components and allow easy access to all sides of the machine.
- Use only forklifts, lift cranes, jacks and tools with sufficient capacity for the loads.
- **Do not** allow spectators in the working area.

**Remember:**  
*The Best Operator is a Safe Operator.*

# NOTES

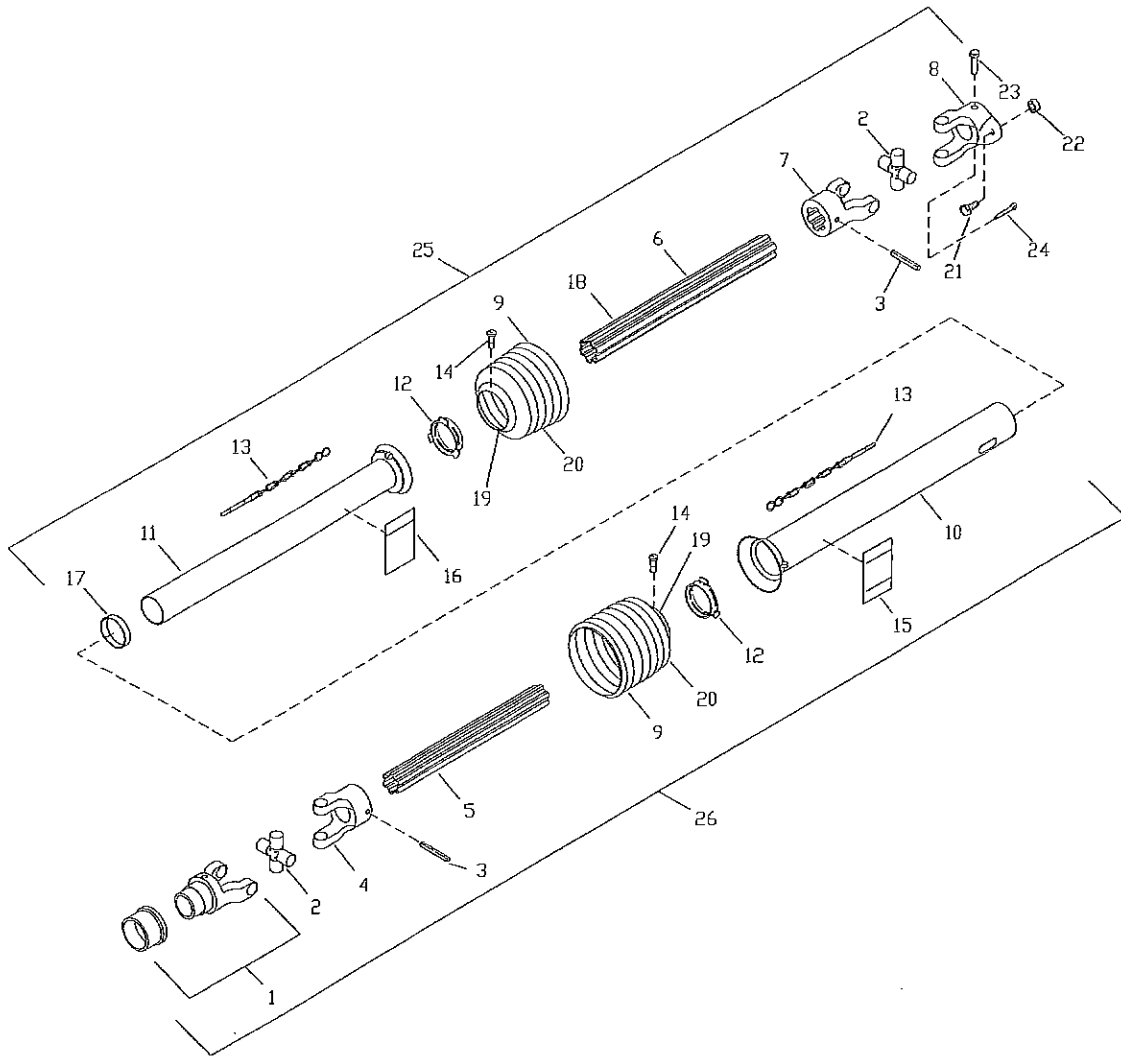
# JACK ASSEMBLY, COMPLETE - 040440

## ATTACHES TO TANK ASSEMBLY PAGE 4



Item	Part Number	PM25 Qty.	PM35 Qty.	Description
1	040290	1	1	Ring, Retaining
2	040300	1	1	Bracket, Swivel
3	040370	1	1	Tube and Bracket Assembly
4	151630	1	1	Kit, Crank Handle Assembly
5	151640	1	1	Kit, Thrust Washer Assembly
6	151650	1	1	Plunger, Pin Assembly
7	151670	1	1	Tube Assembly, 14" Inner
8	389180	-	1	Shaft, Extension

# IMPLEMENT DRIVELINE ASSEMBLY, 540 RPM FOR USE ON 20" ROLLERMILL - 374140



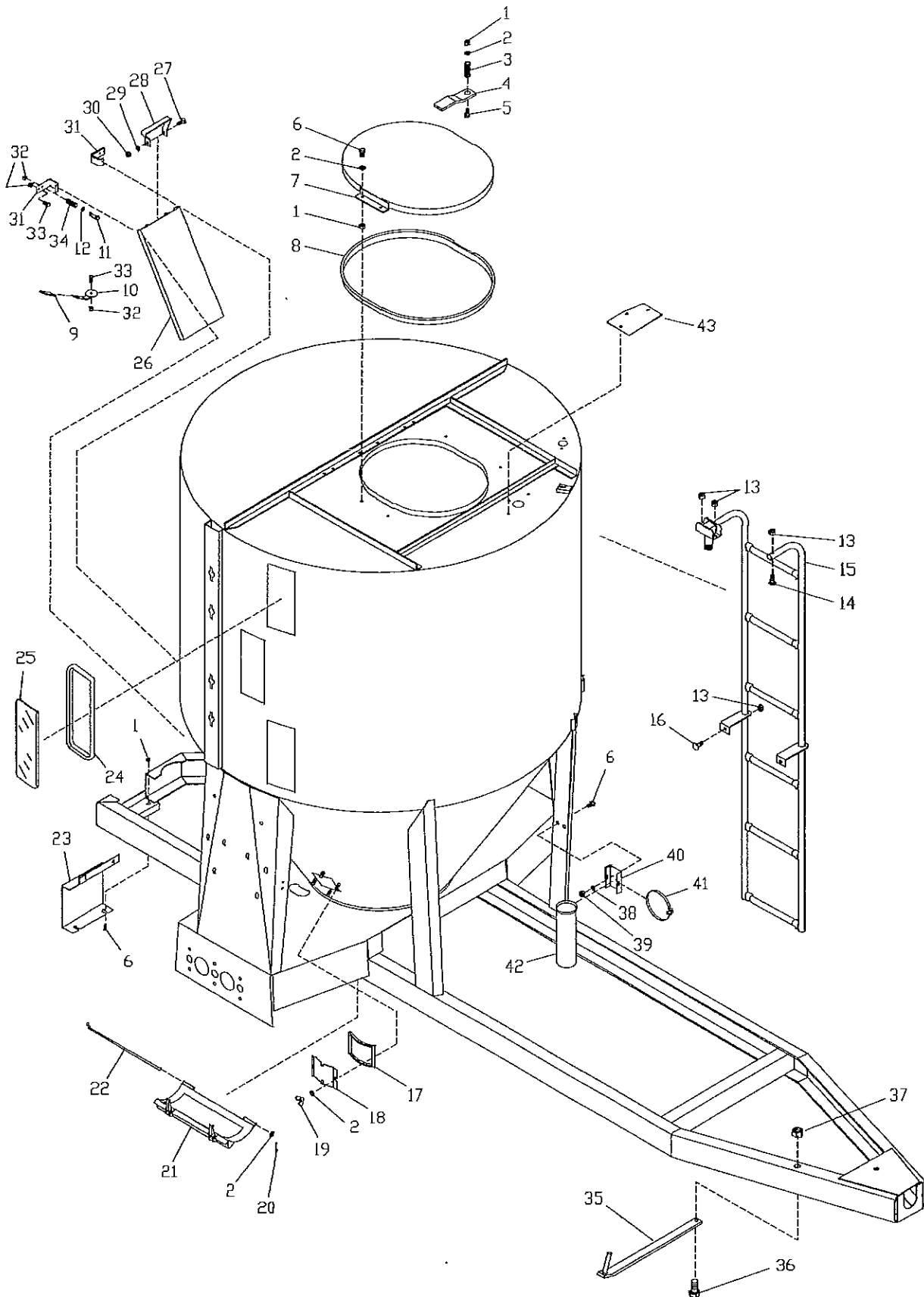
# IMPLEMENT DRIVELINE ASSEMBLY, 540 RPM

## FOR USE ON 20" ROLLERMILL - 374140

Item	Part Number	Qty.	Description
1	340130	1	Yoke, 1-3/8" 6 Spline
2	182230	2	Kit, Cross and Bearing
3	196740	2	Pin, Spring 10 mm x 90 mm
4	196730	1	Yoke, Inboard
5	355700	1	Shaft, Inner Profile S4
6	355710	1	Profile and Sleeve
7	196770	1	Yoke, Inboard
8	379800	1	Yoke, Shearbolt Clutch
9	340140	2	Shield, Cone 7 Rib
10	379830	1	Tube, Outer Shield Oval (use with 374140)
11	355730	1	Tube, Inner Shield Round
12	182900	2	Ring, Bearing SC 25
13	182890	2	Chain, Safety
14	345980	2	Screw, Shield (in item 9)
15	268860	1	Decal, Danger Rotating Drive Line
16	340180	1	Decal, Danger Shield Missing
17	340190	2	Bearing, Support
18	196890	1	Zerk, 3/16" Drive Grease (in item 6)
19	349250	2	Collar, Reinforced
20	340210	1	Assembly, Collar Kit (in item 1)
21	299930	1	Bolt, HHCS 3/8"-16 x 2-1/4"
22	E552044	1	Nut, Lock 3/8"-16 Hex Top Grade 2
23	036480	1	Pin, Clevis 5/16" x 3"
24	020700	1	Pin, Cotter 5/32" x 1" Chisel Point
25	379790	1	Implement Driveline - Implement Half
26	379780	1	Implement Driveline - Tractor Half

# TANK ASSEMBLY - 365780

## SHOWS ASSEMBLY FOR 105 & 150



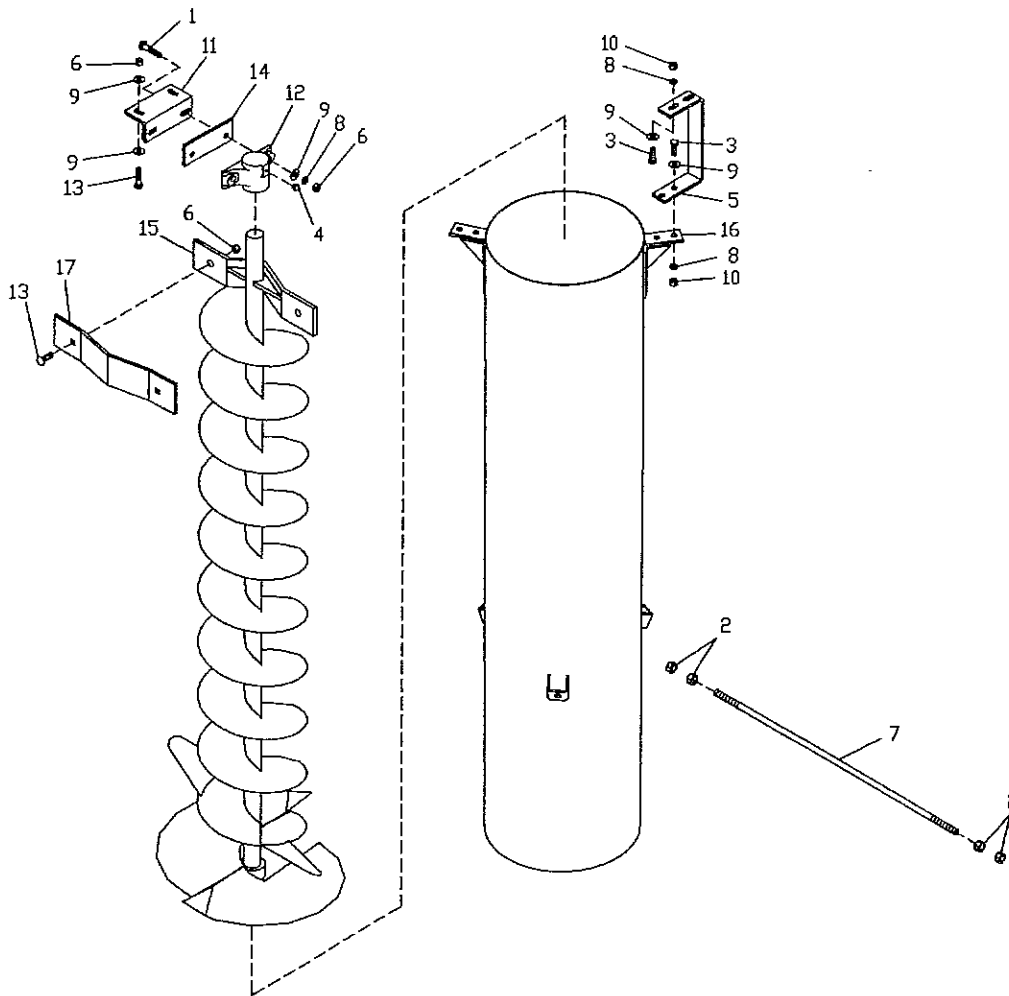
# TANK ASSEMBLY - 365780

## SHOWS ASSEMBLY FOR 105 & 150

Item	Part Number	Qty.	Description
1	025670	6	Nut, Lock 5/16"-18 Hex Disthread
2	022920	13	Washer, Flat 5/16" Flat
3	013080	2	Spring, Compression
4	022930	2	Bracket, Lid Locking
5	009800	2	Bolt, HHCS 5/16"-18 x 2-1/2"
6	012140	6	Bolt, HHCS 5/16"-18 x 3/4"
7	035661	1	Weldment, Lid and Hinge with Decal
8	164020	1	Seal, Tank Lid
9	050150	1	Grip, Red Handle
10	204690	1	Weldment, Eccentric
11	E672368	2	Bolt, HHCS 1/4" x 2-1/4"
12	023260	2	Washer, Flat 1/4"
13	020180	5	Nut, Lock 3/8"-16 Hex Flange
14	J03H1558	1	Bolt, Carriage 3/8"-16 x 1-1/2"
15	365670	1	Weldment, Ladder Assembly
16	170530	1	Bolt, Carriage 3/8"-16 x 1"
17	185910	2	Strip, Seal Tank CO
18	036090	2	Door, Clean Out
19	009790	8	Nut, Wing 5/16"-18 Type A
20	021210	1	Pin, Cotter 3/32" x 1"
21	363990	1	Weldment, Trough Cover
22	156970	1	Pin, Hinge 5/16" x 18-1/2"
23	365190	1	Bracket, Short 105
23	315180	1	Bracket, Long 150
24	012020	3	Rubber, Window Frame
25	012050	3	Window, Glass 4-1/2" x 12"
26	204670	1	Door, Unloading Slide
27	012410	2	Bolt, Carriage 5/16"-18 x 3/4"
28	204680	1	Handle, Door
29	023620	2	Washer, Lock 5/16"
30	023630	2	Nut, Hex 5/16"-18
31	216020	2	Holder, Sliding Door
32	042370	5	Nut, Lock 1/4"-20 Hex Grade 2
33	012051	3	Bolt, HHCS 1/4"-20 x 3/4"
34	011130	2	Assembly, Slide Holder Spring
35	379470	1	Holder, PTO
36	014770	1	Bolt, HHCS 1/2"-13 x 1-1/2"
37	037540	1	Nut, Lock 1/2"-13
38	023620	2	Washer, 5/16" Lock
39	023630	2	Nut, Hex 5/16"-18
40	458080	1	Bracket, Tube Mount
41	455160	1	Clamp, Hose
42	449190	1	Tube, Manual Holder
43	380040	1	Cover, Air

# MIXING AUGER ASSEMBLY

## SHOWS ASSEMBLY FOR 105 - 365790 & 150 - 365750

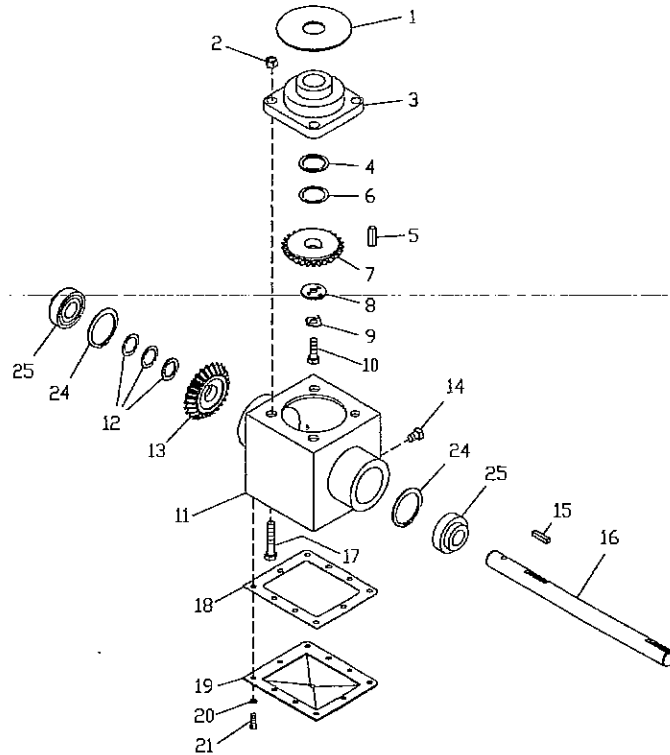


Item	Part Number	105 bu.	150 bu.	Description
		Qty.	Qty.	
1	J03H1558	2	2	Bolt, Carriage 3/8"-16 x 1-1/2"
2	005360	12	12	Nut, Hex 1/2"-13
3	011370	4	4	Bolt, HHCS 3/8"-16 x 1-1/2"
4	013170	1	1	Zerk, 1/8" NPT Short Grease
5	018680	2	2	Support, Main Auger Tube
6	020180	2	2	Nut, Lock 3/8"-16 Hex Flange
7	021020	3	3	Rod, Mix Auger Tube
8	021180	8	8	Washer, Lock 3/8" Spring Type
9	021190	10	10	Washer, Flat 7/16" x 1" x 5/64"
10	027260	8	8	Nut, Hex 3/8"-16
11	033230	1	1	Hanger, Bearing
12	035120	1	1	Bearing, A-78 Cast
13	035180	2	5	Bolt, Carriage 3/8"-16 x 1-1/4"
14	151130	1	1	Shim
15	363970	1	-	Weldment, Mixing Auger 105 Bushel
15	156920	-	1	Weldment, Mixing Auger 150 Bushel
16	363880	1	-	Tube, Mixing Auger 105 Bushel
16	363890	-	1	Tube, Mixing Auger 150 Bushel
17	126660	-	1	Paddle, Mixing Auger



# GEARBOX ASSEMBLY, MIXER - 365860

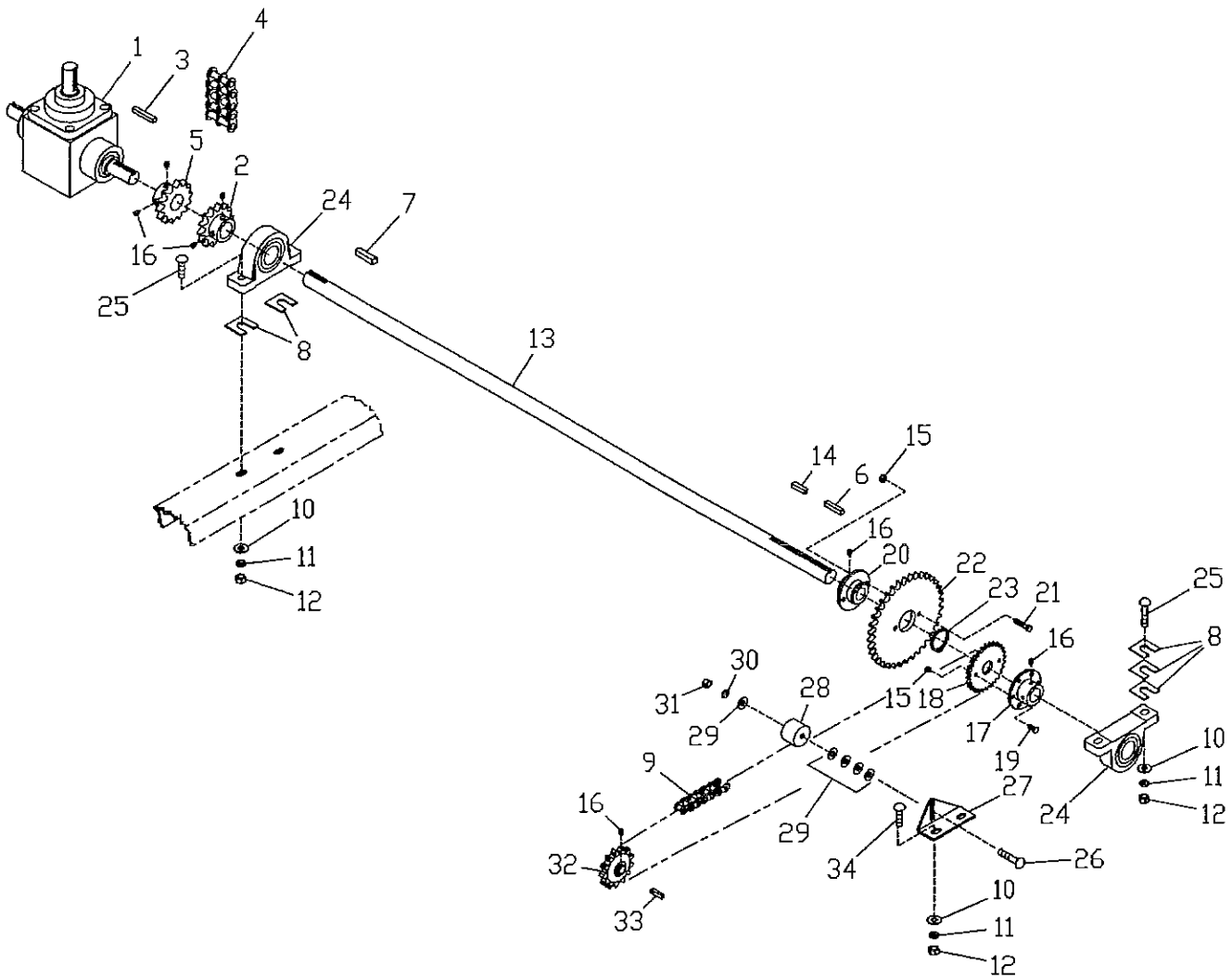
## SHOWS ASSEMBLY FOR 105 & 150



Item	Part Number	Qty.	Description
1	010570	1	Plate, Bearing Protector
2	037540	4	Nut, Lock 1/2"-13
3	020270	1	Bearing, Flange 1-5/8"
4	020290	1	Washer, Flat 1-1/8" x 2-1/8" x 9/64"
5	020220	1	Key, Square 5/16" x 1-1/4"
6	020300	1	Washer, Flat 1-5/8" x 2-1/8" x 3/64"
7	020280	1	Gear, Bevel 1-5/8"
8	020310	1	Washer, Special Lock
9	010720	1	Washer, Locking 17/32" x 1-1/4" x 16 Gauge 2N+
10	010730	1	Bolt, HHCS 1/2"-13 x 1-1/4"
11	131190	1	Gearbox, with Bearings
12	020880	1	Washer, Flat 1-1/4" x 1-3/4" x 9/64"
12	020910	1	Washer, Flat 1-1/4" x 1-3/4" x 1/16"
12	020930	2	Washer, Flat 1-1/4" x 1-3/4" x 9/64" x 1/32"
13	020320	1	Gear, Bevel 1-1/4"
14	020340	1	Plug, Pipe 3/4"
15	021630	1	Key, Square 5/16" x 1-1/2"
16	163810	1	Shaft, Gearbox 1-1/4" x 18"
17	013790	4	Bolt, HHCS 1/2"-13 x 2-1/4"
18	010740	1	Gasket, Gearbox
19	010750	1	Cover, Gearbox
20	023620	10	Washer, Lock 5/16"
21	012140	10	Bolt, HHCS 5/16"-18 x 3/4"
22	961960	.2 oz.	Permatex, Ultra Blue 13 oz.
23	963130	.33 gal	Oil, 90w Gear SAE
24	020350	3	Ring, Retaining Int N5008-283
25	112550	2	Assembly, Bearing 1.25" Adapter COD

# DRIVE & GEARBOX ASSEMBLY, LOWER - 470990

SHOWS ASSEMBLY FOR 105 & 150



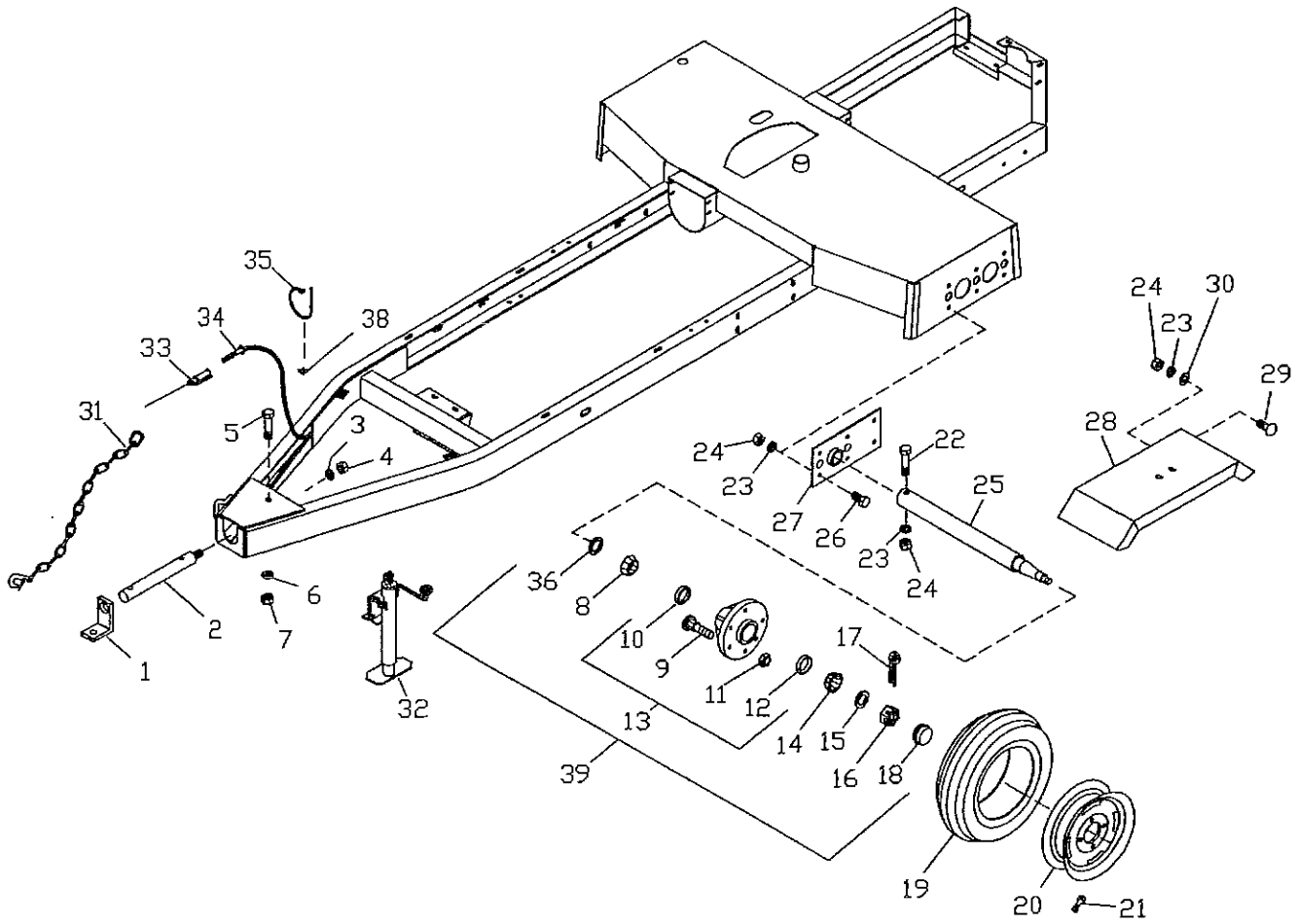
# DRIVE & GEARBOX ASSEMBLY, LOWER - 470990

## SHOWS ASSEMBLY FOR 105 & 150

Item	Part Number	Qty.	Description
1	365860	1	Assembly, Mixer Gearbox
2	461150	1	Sprocket, 60B14 Coupler
3	020400	1	Key, Square 5/16" x 2"
4	163770	1	Assembly, Chain 60-2 14 Pitches Includes Connector
5	163790	1	Sprocket, 60B14 1-1/4" ID
6	021530	1	Key, Square 3/8" x 2"
7	030380	1	Key, Square 3/8" x 3"
8	1486454R1	8	Shim, Blade .030"
9	214150	1	Chain, Roller 2040 x 33 Pitches
10	005200	6	Washer, Flat 9/16" x 1-3/8" x 7/16"
11	005370	6	Washer, Lock 1/2"
12	005360	6	Nut, Hex 1/2"-13
13	461870	1	Shaft, Mixer Drive
14	039950	1	Key, Square 3/8" x 3/4"
15	042370	2	Nut, Lock 1/4"-20 Hex Grade 2
16	010990	8	Screw, Set AHSS 5/16"-18 x 5/16" BLO
17	461890	1	Weldment, Shear Hub 1-5/8" Bore
18	461880	1	Plate, Sprocket 40A28 1-5/8" ID
19	042960	2	Bolt, HHCS 1/4"-20 x 1"
20	469750	1	Weldment, Shear Hub 1-5/8" ID
21	047000	2	Bolt, HHCS 1/4"-20 x 1-1/2"
22	469730	1	Sprocket, Plate 80A30
23	040290	1	Ring, Extension Retaining
24	013960	1	Bearing, Pillow Block 1-5/8" with Lock Collar
25	991200	4	Bolt, Carriage 1/2"-13 x 2"
26	035540	1	Bolt, Carriage 3/8"-16 x 2-3/4"
27	463690	1	Bracket, Mill to Mixer Idler
28	041440	1	Tightener, Chain (Wood Block Idler 500)
29	021190	1	Washer, Flat 7/16" x 1" x 5/64"
30	021180	1	Washer, Lock 3/8" Spring Type
31	027260	5	Nut, Hex 3/8"-16
32	021860	1	Sprocket, 40B24 1-1/8" Bore
33	020760	1	Key, Square 5/16" x 2"
34	V061805	2	Bolt, Carriage 1/2"-13 x 1-1/4"

# SPINDLE, HITCH & HUB ASSEMBLY

FOR USE ON 105 SCALE - 366400 & 105 STANDARD - 366380



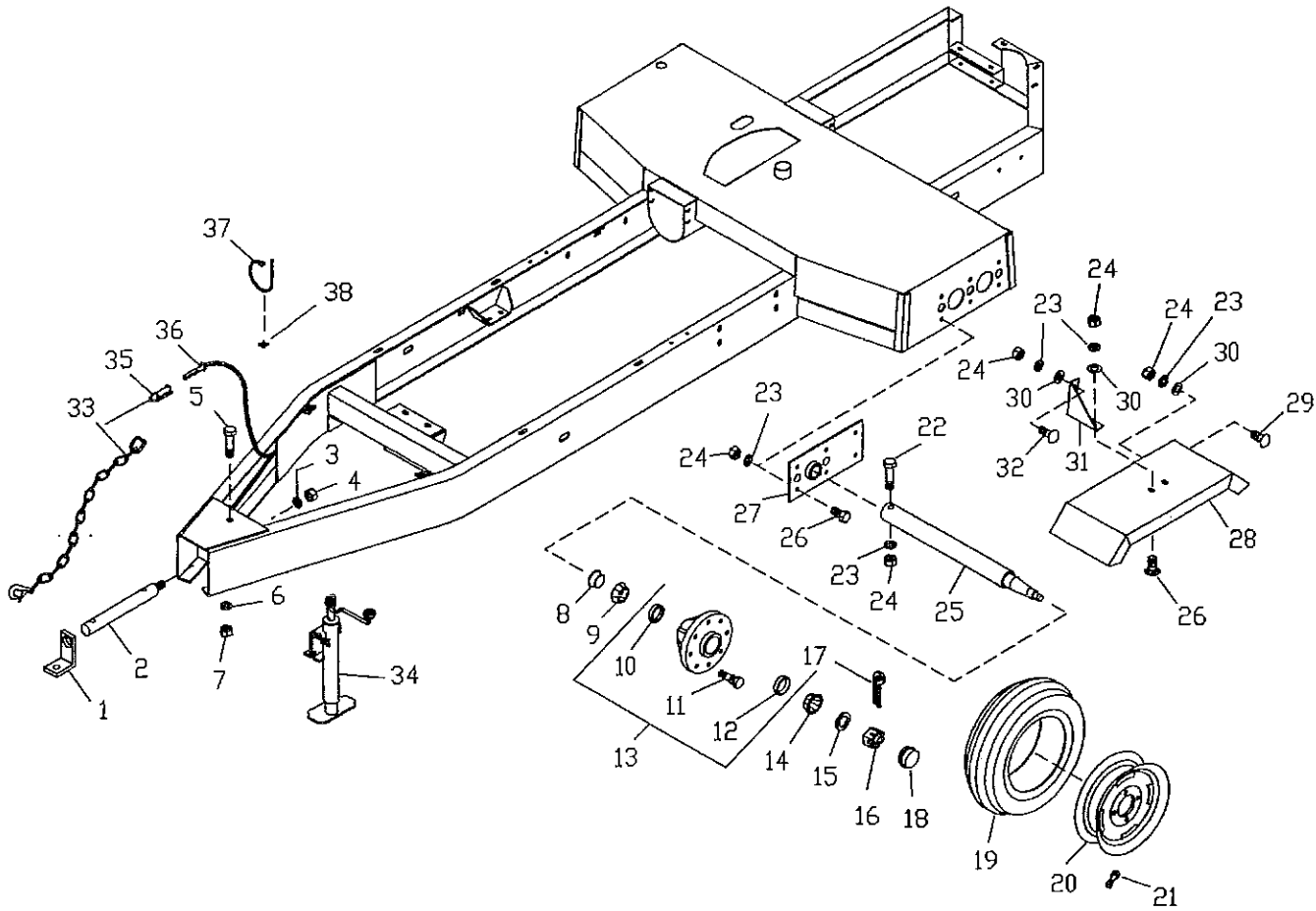
# SPINDLE, HITCH & HUB ASSEMBLY

## FOR USE ON 105 SCALE - 366400 & 105 STANDARD - 366380

Item	Part Number	366400	366380	Description
		Qty.	Qty.	
1	036740	1	1	Clevis, Hitch 1-7/8"
2	124780	-	1	Bar, Hitch (without scale)
2	219870	1	-	Hitch, Weigh Bar 5-Pin - 105 Bushel and 150 Bushel
3	003350	1	1	Washer, Lock 1" Split
4	147310	1	1	Nut, Hex 1"-8 Grade 2
5	990960	1	1	Bolt, HHCS 3/4"-10 x 4-1/2"
6	036800	1	1	Washer, Lock 3/4" Spring Type
7	036750	1	1	Nut, Hex 3/4"-10 Grade 2
8	016520	2	2	Cone, Bearing 1-3/8"
8	044370	2	2	Cone, Bearing 1-3/8" Inner
9	020470	12	12	Bolt, Stud 1/2"-20 x 1-1/2"
10	018850	1	1	Cup, Bearing
11	020730	12	12	Nut, Lug 1/2"-20
12	018860	2	2	Cup, Bearing
13	396100	2	2	Assembly, Hub 6 Bolt
14	012630	2	2	Cone, Bearing 1-1/4"
15	020720	2	2	Washer, Flat 13/16" x 1-3/4" x 11/64"
16	020710	2	2	Nut, Hex 3/4"-16 Slotted
17	026630	2	2	Pin, Cotter 5/32" x 1-1/2"
18	035420	2	2	Cap, Hub 2-1/2"
19	148640	2	2	Tire, Tubeless 10.00 x 15 8 Ply
20	018717	2	2	Wheel, 15 x 8 6-Bolt Red
21	164420	2	2	Valve, Stem with Core and Cap
22	030420	2	2	Bolt, HHCS 1/2"-13 x 4-1/4"
23	005370	14	14	Washer, Lock 1/2"
24	005360	14	14	Nut, Hex 1/2"-13
25	040581	2	-	Spindle, Weigh Bar 5-Pin - 105 Bushel Only
25	042270	-	2	Spindle, 2-1/8" x 31-5/16"
26	010730	12	12	Bolt, HHCS 1/2"-13 x 1-1/4"
27	363910	2	2	Bracket, Mounting 105 Bushel
28	366250	2	2	Weldment, Fender 105 Bushel
29	005390	4	4	Bolt, Carriage 1/2"-13 x 1"
30	005200	4	4	Washer, Flat 9/16" x 1-3/8" x 7/64"
31	1765302	1	1	Chain, Safety 5/16" x 60"
32	040440	1	1	Assembly, Completed Jack (See page 3)
33	036780	1	-	Connector, Power Cord (Female)
34	147060	1	-	Cord, 23' Digital Power
35	149670	14	-	Tie, Nylon Cable 3/16" x 11"
36	396050	2	2	Seal
37	036890	3	-	Clip, Spring
38	379579	4	-	Mount, 4-Way Cable
39	167450	-	-	Kit, Hub, 6 Bolt with Bearing Seal

# SPINDLE, HITCH & HUB ASSEMBLY

FOR USE ON 150 SCALE - 366410 & 150 STANDARD - 366390



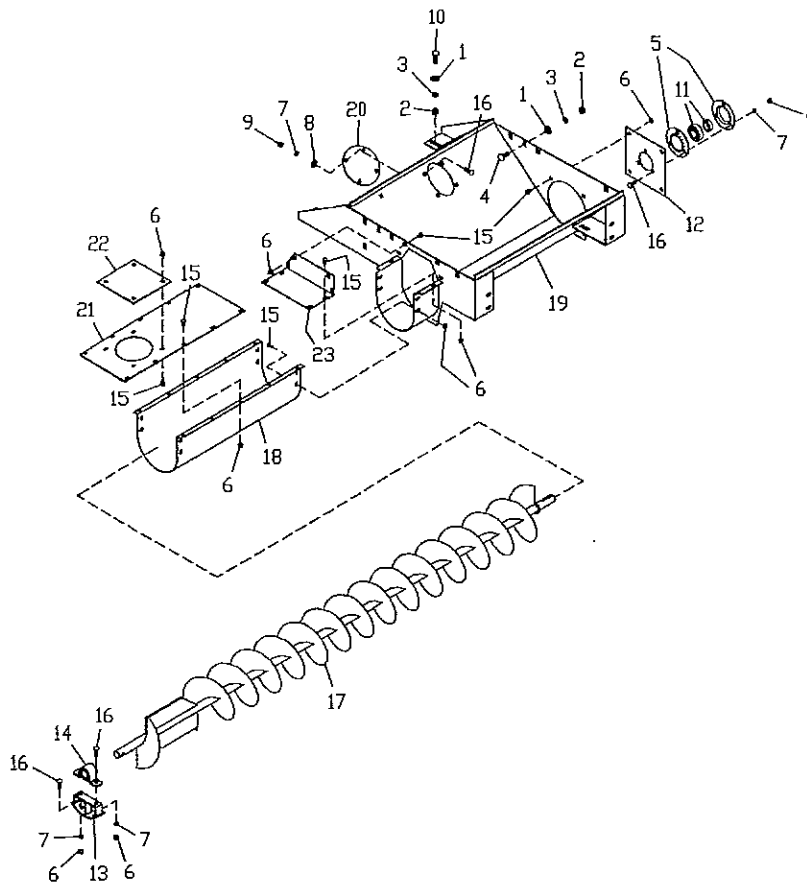
# SPINDLE, HITCH & HUB ASSEMBLY

## FOR USE ON 150 SCALE - 366410 & 150 STANDARD - 366390

Item	Part Number	366410	366390	Description
		Qty.	Qty.	
1	036740	1	1	Clevis, Hitch 1-7/8"
2	124780	-	1	Bar, Hitch (without Scale)
2	219870	1	-	Hitch, Weigh Bar 5-Pin (105 Bushel and 150 Bushel, with Scale)
3	003350	1	1	Washer, Lock 1" Split
4	147310	1	1	Nut, Hex 1"-8 Grade 2
5	990960	1	1	Bolt, HHCS 3/4"-10 x 4-1/2"
6	036800	1	1	Washer, Lock 3/4" Spring Type
7	036750	1	1	Nut, Hex 3/4"-10 Grade 2
8	121130	2	2	Seal, 2-1/8" x 3-1/16" x 1/2"
9	042310	2	2	Cone, Bearing 1-7/8" ID
10	042320	1	1	Cup, Bearing
11	042440	16	16	Bolt, HHCS 9/16"-18 x 1-1/8"
12	018860	2	2	Cup, Bearing
13	042330	2	2	Assembly, Hub
14	012630	2	2	Cone, Bearing 1-1/4"
15	020720	2	2	Washer, Flat 13/16" x 1-3/4" x 11/64"
16	020710	2	2	Nut, Hex 3/4"-16 Slotted
17	026630	2	2	Pin, Cotter 5/32" x 1-1/2"
18	035420	2	2	Cap, Hub 2-1/2"
19	050230	2	2	Tire, Tubeless 13.5 x 16.1
20	042264	2	2	Wheel, W11C x 16.1 8-Bolt Red
21	164420	2	2	Valve, Stem with Core and Cap
22	030420	2	2	Bolt, HHCS 1/2"-13 x 4-1/2"
23	005370	26	26	Washer, Lock 1/2"
24	005360	26	26	Nut, Hex 1/2"-13
25	042270	-	2	Spindle, 2-1/8" x 31-5/16" (without Scale)
25	040611	2	-	Spindle, Weigh Bar 5-Pin - 150 Bushel Only (with Scale)
26	010730	16	16	Bolt, HHCS 1/2"-13 x 1-1/4"
27	363940	2	2	Bracket, Mounting 150 Bushel
28	159140	2	2	Weldment, Fender 150 Bushel
29	005390	4	4	Bolt, Carriage 1/2"-13 x 1"
30	005200	12	12	Washer, Flat 9/16" x 1-3/8" x 7/64"
31	159160	4	4	Support, Fender
32	030470	4	4	Bolt, Carriage 1/2"-13 x 1-1/4"
33	1765302	1	1	Chain, Safety 5'
34	040440	1	1	Assembly, Completed Jack (See page 3)
35	036780	1	-	Connector, Power Cord
36	147060	1	-	Cord, 23' Digital Power
37	149670	14	-	Tie, Nylon Cable
38	379570	4	-	Mount, 4 Way Cable

# MILL TO MIXER AUGER ASSEMBLY - 365760

## SHOWS ASSEMBLY FOR 105 & 150

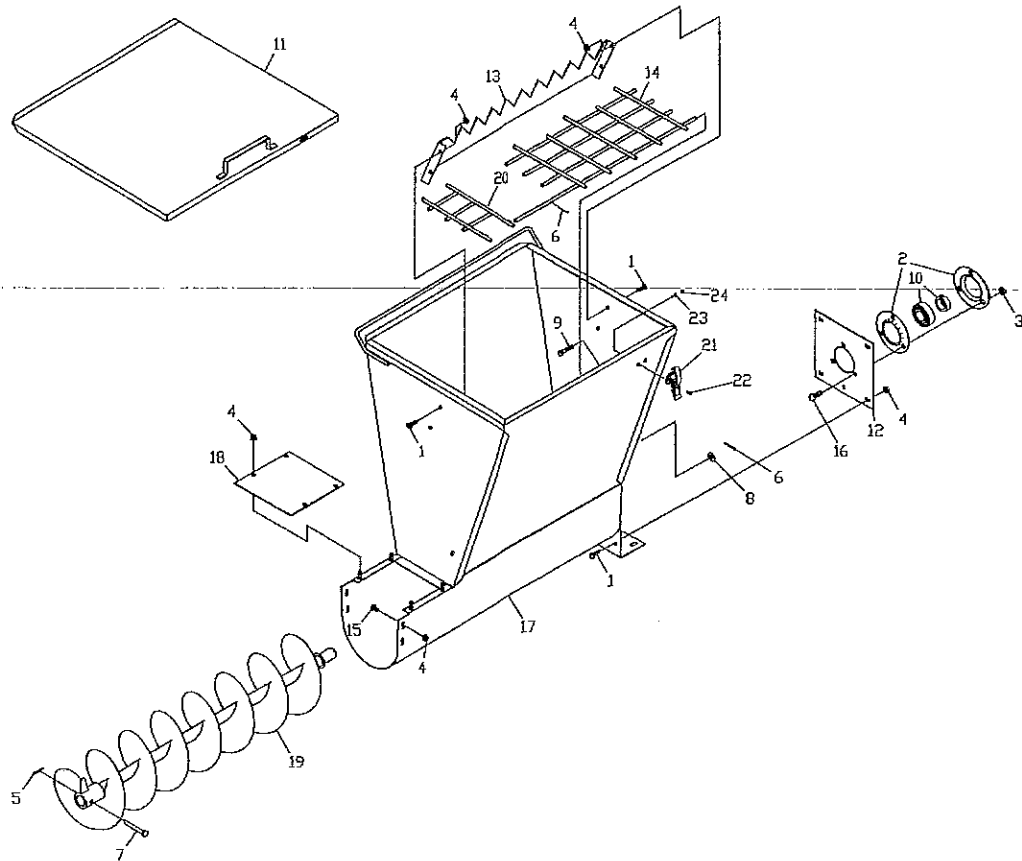


Item	Part Number	Qty.	Description
1	005200	14	Washer, Flat 9/16" x 1-3/8" x 7/64"
2	005360	14	Nut, Hex 1/2"-13
3	005370	14	Washer, Lock 1/2"
4	005390	10	Bolt, Carriage 1/2"-13 x 1"
5	019150	2	Bearing, Flangette 1-1/8" 3 Bolt Round
6	020190	28	Nut, Lock 5/16"-18 Hex Flange
7	021180	11	Washer, Lock 3/8" Spring Type
8	021190	4	Washer, Flat 7/16" x 1" x 5/64"
9	027260	11	Nut, Hex 3/8"-16
10	030470	4	Bolt, Carriage 1/2"-13 x 1-1/4"
11	108850	1	Bearing SOD 1-1/8" Spring Lock
12	128040	1	Plate, Hole Cover
13	165020	1	Weldment, Bearing Holder Bracket
14	165030	1	Bearing, PB 1-1/8" Split Wood
15	169340	28	Bolt, Carriage 5/16"-18 x 1/2"
16	170530	11	Bolt, Carriage 3/8"-16 x 1"
17	363750	1	Weldment, Auger Mill to Mixer
18	364250	1	Trough, Lower Pan to Tank
19	365330	1	Weldment, Pan Lower
20	365390	1	Cover, Lower Pan
21	365880	1	Cap, Trough
22	365900	1	Plate, Cap
23	365950	1	Cap, Angle
24	961990	1.5 oz.	Caulk, Tube Magic Seal Clear



# SUPPLEMENT HOPPER - 470970

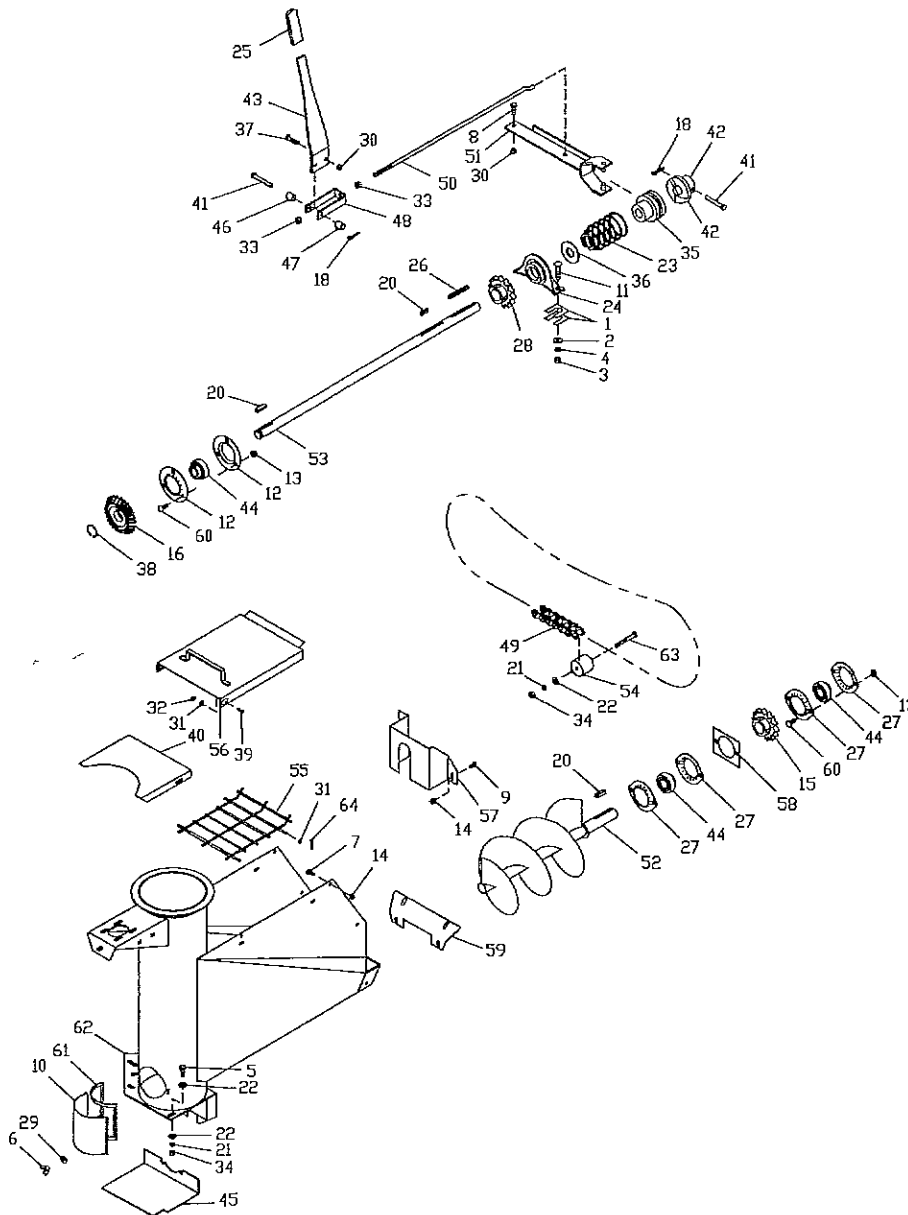
## SHOWS ASSEMBLY FOR 105 & 150



Item	Part Number	Qty.	Description
1	006880	6	Bolt, HHCS 5/16"-18 x 5/8"
2	019150	2	Bearing, Flangette 1-1/8" 3 Bolt Round
3	020180	3	Nut, Lock 3/8"-16 Hex Flange
4	020190	16	Nut, Lock 5/16"-18 Hex Flange
5	020700	1	Pin, Cotter 5/32" x 1" Chisel Point
6	021210	2	Pin, Cotter 3/32" x 1"
7	021430	1	Pin, Clevis 3/8" x 2-1/4"
8	022920	1	Washer, Flat 3/8" x 7/8" x 5/64"
9	025760	2	Bolt, HHCS 5/16"-18 x 1-1/2"
10	108850	1	Bearing, SOD 1-1/8" Spring Lock
11	126540	1	Lid Weldment, Supplement Hopper
12	128040	1	Plate, Hole Cover
13	470950	1	Cutter, Sack
14	471690	1	Weldment, Grate
15	169340	4	Bolt, Carriage 5/16"-18 x 1/2" Grade 2
16	170530	3	Bolt, Carriage 3/8"-16 x 1"
17	470960	1	Hopper Weldment, Supplement
18	365140	1	Cover, Supplement Hopper
19	365150	1	Auger Weldment, Concentrate Tank
20	473840	1	Grate Weldment, Angled Hopper
21	I669184R1	1	Clamp, Shield Latch
22	1159920	2	Screw, PHMS 10-24 x 1/2"
23	120600	2	Washer, Lock #10
24	120590	2	Nut, Hex 10-24

# HOPPER & DRIVE ASSEMBLY, DISCHARGE - 366690

## SHOWS ASSEMBLY FOR 105 & 150



Item	Part Number	Qty.	Description
1	I486454R1	4	Shim, Blade .030"
2	005200	2	Washer, Flat 9/16" x 1-3/8" x 7/64"
3	005360	2	Nut, Hex 1/2"-13
4	005370	2	Washer, Lock 1/2"
5	006690	3	Bolt, HHCS 3/8"-16 x 1-1/4"
6	009790	2	Nut, Wing 5/16"-18 Type A
7	012140	4	Bolt, HHCS 5/16"-18 x 3/4"
8	012260	1	Bolt, HHCS 3/8"-16 x 1"
9	012410	4	Bolt, Carriage 5/16"-18 x 3/4"
10	012520	1	Door, Cleanout
11	018110	2	Bolt, Carriage 1/2"-13 x 1-1/2" Grade 2
12	019150	2	Bearing, Flangette 1-1/8" 3 Bolt Round
13	020180	8	Nut, Lock 3/8"-16 Hex Flange
14	020190	4	Nut, Lock 5/16"-18 Hex Flange

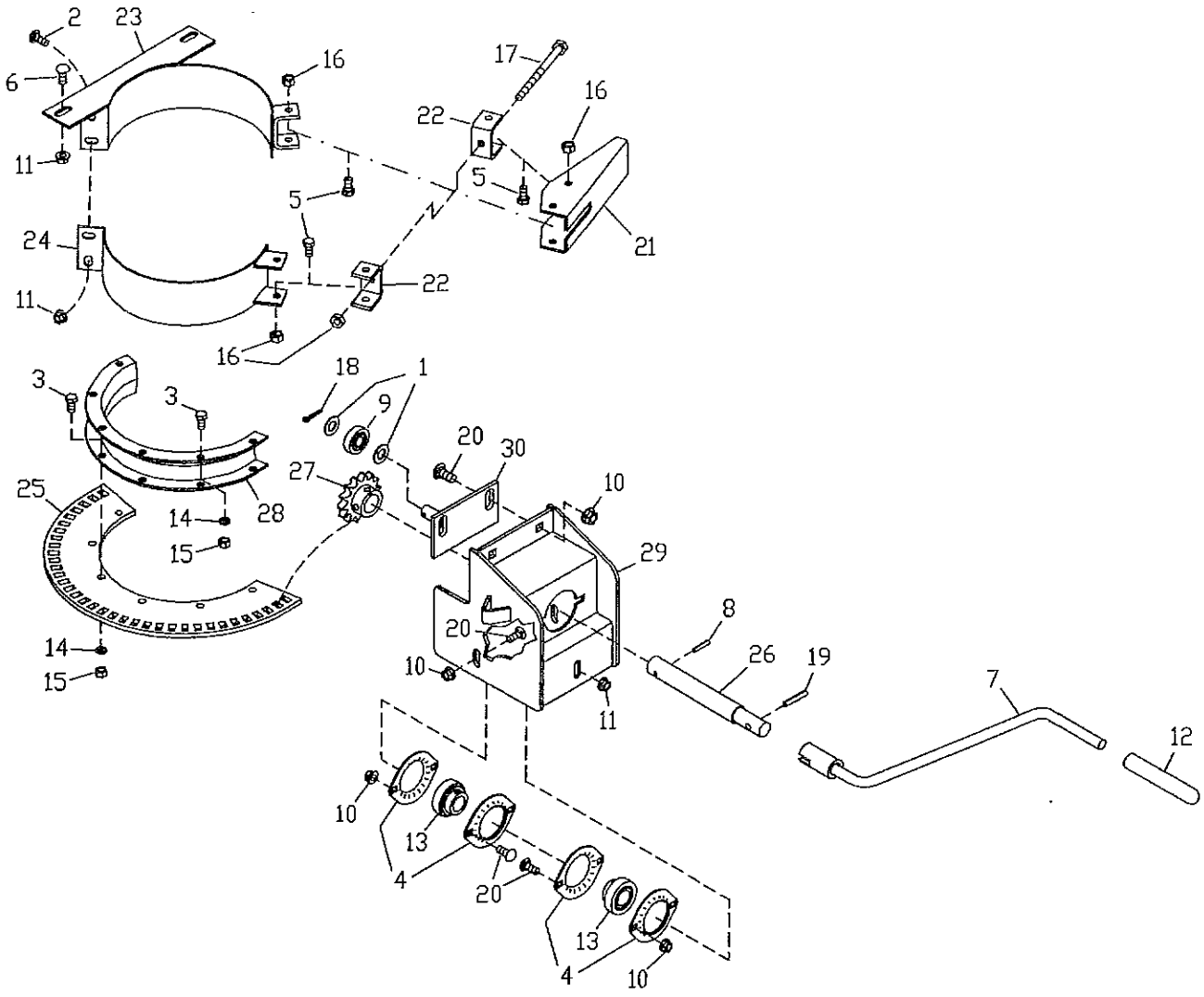
# HOPPER & DRIVE ASSEMBLY, DISCHARGE - 366690

## SHOWS ASSEMBLY FOR 105 & 150

Item	Part Number	Qty.	Description
15	020240	1	Sprocket, 40B28 1-1/8" Bore
16	020580	1	Gear, Bevel 14 T 1-1/8" Bore
17	020650	4	Washer, Flat 1-9/64" x 1-5/8" x 9/64"
18	020700	2	Pin, Cotter 5/32" x 1" Chisel Point
19	020750	4	Washer, Flat 1-9/64" x 1-5/8" x 7/64"
20	020760	3	Key, Square 5/16" x 2"
21	021180	4	Washer, Lock 3/8" Spring Type
22	021190	7	Washer, Flat 7/16" x 1" x 5/64"
23	021270	1	Spring, Clutch Holding
24	021540	1	Bearing, PB 1-1/8" with Lock Collar
25	021560	1	Grip, Clutch Handle 1/4" x 1-1/4" Red
26	021570	1	Key, Square 5/16" x 3-5/8"
27	021610	4	Bearing, Flangette 1-1/8" 2 Bolt
28	021860	1	Sprocket, 40B24 1-1/8" Bore
29	022920	2	Washer, Flat 3/8" x 7/8" x 5/64"
30	023060	2	Nut, Lock 3/8"-16 Hex Disthreaded Grade 2
31	023260	6	Washer, Flat 5/16" x 3/4" x 16 Gauge
32	023270	2	Nut, Lock 1/4"-20 Hex Flange
33	023770	2	Nut, Hex 7/16"-14 Grade 2
34	027260	4	Nut, Hex 3/8"-16
35	032660	1	Clutch, A-66 Casting
36	034260	2	Washer, Flat 1-1/64" x 2-1/8" x 9/64" Plain
37	035180	1	Bolt, Carriage 3/8"-16 x 1-1/4"
38	035200	1	Ring, Snap 1-1/8"
39	035230	2	Screw, THMS 1/4"-20 x 3/4" Grade 2
40	040820	1	Deflector, Feed
41	041540	2	Pin, Clevis 3/8" x 2-3/8"
42	041550	1	Clutch, A-67 Casting
43	105210	1	Handle, Clutch
44	108850	3	Bearing SOD 1-1/8" Spring Lock
45	121820	1	Shield, Lower Gears
46	144730	1	Spacer 1/2" Long
47	144740	1	Spacer 7/8" Long
48	151450	1	Fork, Discharge Clutch
49	157860	1	Assembly, Chain RC40 x 61P
50	158200	1	Rod, Clutch 500
51	158210	1	Weldment, Clutch Arm
52	158230	1	Weldment, Push Auger
53	158240	1	Shaft, Back Auger Drive
54	041440	1	Tightener, Chain (Wood Block Idler 500)
55	158270	1	Weldment, Discharge Grate
56	158280	1	Weldment, Back Hopper Cover
57	162140	1	Shield, Push Auger
58	167090	1	Spacer, Bearing
59	167100	1	Gasket, Filler
60	170530	7	Bolt, Carriage 3/8"-16 x 1"
61	185900	1	Strip, Seal Discharge CO
62	365300	1	Weldment, First Section Discharge
63	117550	1	Bolt, Carriage 3/8"-16 x 2-1/4" Grade 2
64	021210	4	Pin, Cotter 3/32" x 1"

# SWIVEL ASSEMBLY, MECHANICAL - 367270

SHOWS ASSEMBLY FOR 105 & 150



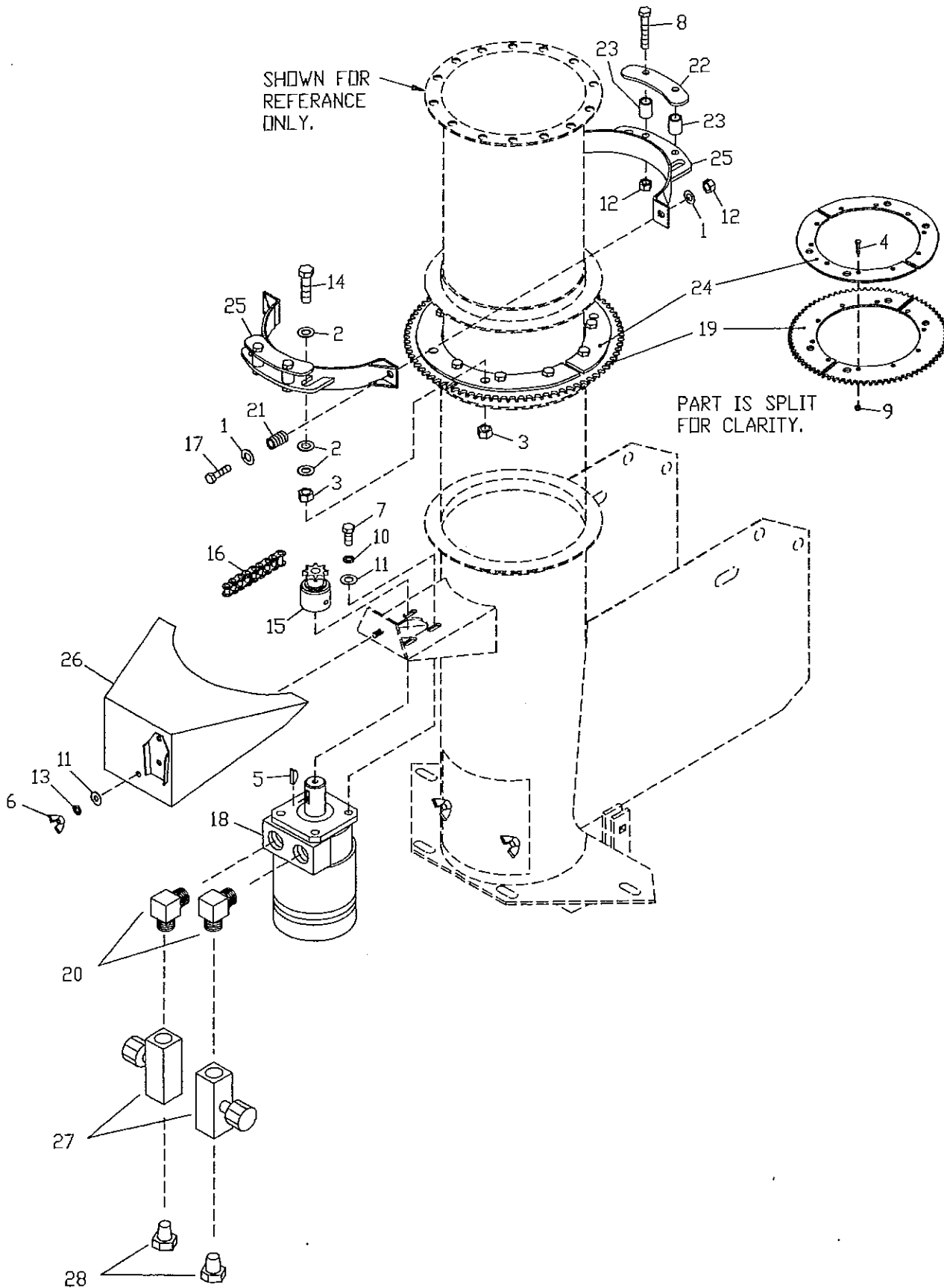
# SWIVEL ASSEMBLY, MECHANICAL - 367270

## SHOWS ASSEMBLY FOR 105 & 150

Item	Part Number	Qty.	Description
1	I120396	2	Washer, Flat 17/32" x 1-1/16" x 1/16"
2	I14994R1	2	Bolt, Carriage 5/16"-18 x 1" Square Neck Grade 2
3	005900	12	Bolt, HHCS 5/16"-18 x 1"
4	008580	4	Bearing, Flangette 3/4" 2 Bolt
5	012140	6	Bolt, HHCS 5/16"-18 x 3/4"
6	012410	4	Bolt, Carriage 5/16"-18 x 3/4"
7	012500	1	Weldment, Crank
8	012560	1	Pin, Expansion 3/16" x 1"
9	013750	1	Bearing, Ball 1/2" Special
10	020180	8	Nut, Lock 3/8"-16 Hex Flange
11	020190	5	Nut, Lock 5/16"-18 Hex Flange
12	020640	1	Grip, Plastic
13	021680	2	Bearing, SOD 3/4"
14	023620	19	Washer, Lock 5/16"
15	023630	19	Nut, Hex 5/16"-18
16	025670	7	Nut, Lock 5/16"-18 Hex Disthread
17	028200	1	Bolt, HHCS 5/16"-18 x 4-1/2"
18	034360	1	Pin, Cotter 1/8" x 1"
19	169220	1	Pin, Spring 1/4" x 1-3/8" Slotted
20	170530	8	Bolt, Carriage 3/8"-16 x 1"
21	206490	1	Handle, Brake
22	206500	2	Yoke, Brake
23	206510	1	Weldment, Handle Half Band
24	206520	1	Weldment, Plain Half Band
25	217670	1	Disk, Half Swivel Drive
26	217740	1	Shaft, Swivel Drive
27	217750	1	Sprocket, 50B8 3/4" Bore
28	367320	1	Weldment, Disk Drive Ring Half
29	367360	1	Weldment, Mechanical Swing Bracket
30	367400	1	Weldment, Idler Rod
31	022920	6	Washer, Flat 3/8" x 7/8" x 5/64"
32	116350	2	Spacer, Door
33	991180	2	Bolt, Carriage 5/16"-18 x 3" Grade 2

# SWIVEL ASSEMBLY, HYDRAULIC - 367260

SHOWS ASSEMBLY FOR 105 & 150



# SWIVEL ASSEMBLY, HYDRAULIC - 367260

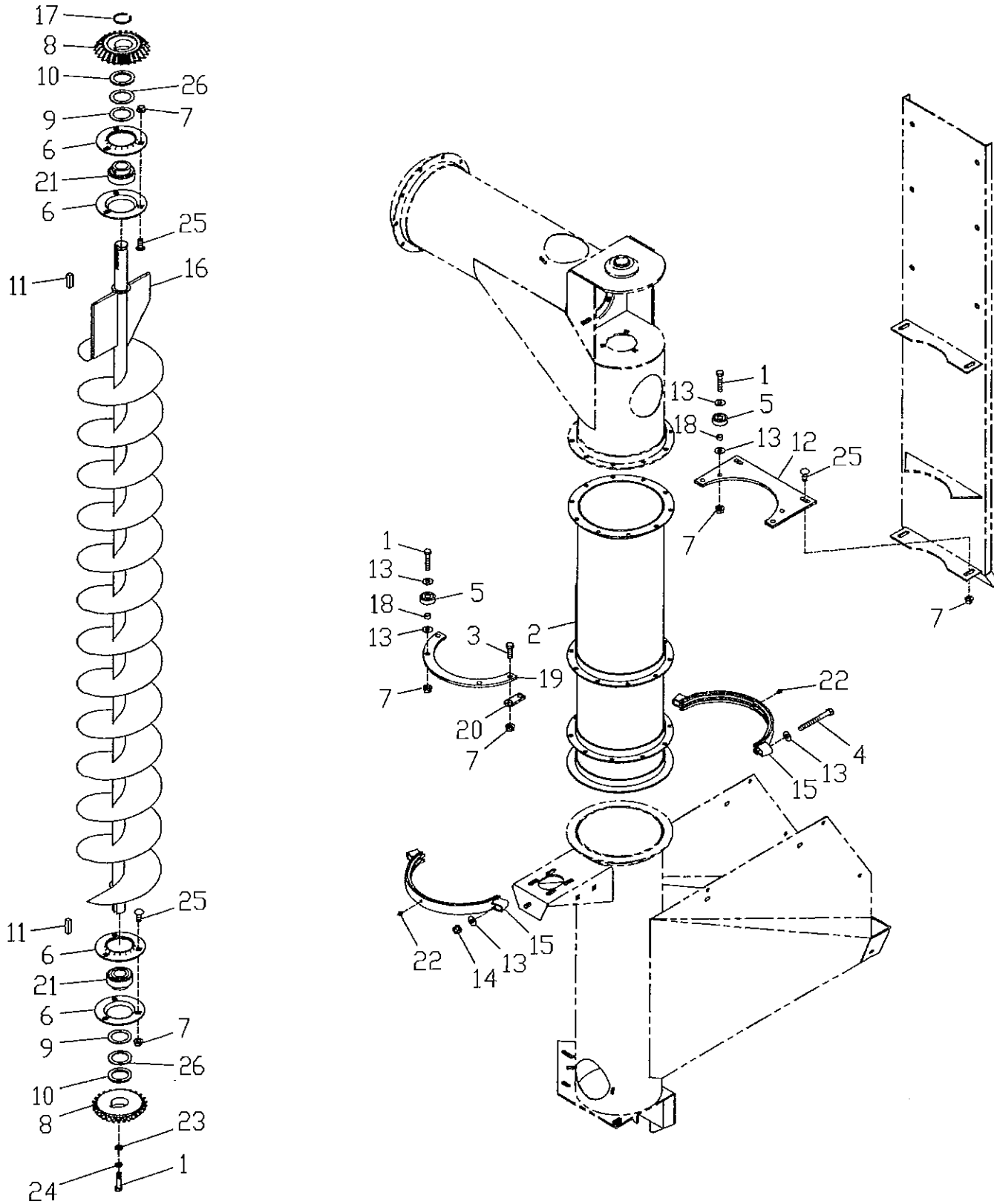
## SHOWS ASSEMBLY FOR 105 & 150

Item	Part Number	Qty.	Description
1	I120394	4	Washer, Flat 13/32" x 13/16" x 3/64"
2	I120396	12	Washer, Flat 17/32" x 1-1/16" x 1/16"
3	005360	8	Nut, Hex 1/2"-13
4	005900	10	Bolt, HHCS 5/16"-18 x 1"
5	006180	1	Key, Woodruff 1/4" x 1" Plain
6	009790	1	Nut, Wing 5/16"-18 Type A
7	012260	4	Bolt, HHCS 3/8"-16 x 1"
8	018150	4	Bolt, HHCS 3/8"-16 x 1-3/4"
9	020190	10	Nut, Lock 5/16"-18 Hex Flange
10	021180	4	Washer, Lock 3/8" Spring Type
11	021190	4	Washer, Flat 7/16" x 1" x 5/64"
12	023060	6	Nut, Lock 3/8"-16 Hex Disthreaded Grade 2
13	023620	1	Washer, Lock 5/16"
14	023950	4	Bolt, HHCS 1/2"-13 x 2"
15	458500	1	Sprocket, Assembly, 60B10
16	366540	1	Chain, #60 Roller 60 Pitches with Connector
17	037790	2	Bolt, HHCS 3/8"-16 x 2"
18	111090	1	Motor, Hydraulic 20 cu. in. Displacement
19	458490	2	Sprocket, Split 60A54
20	274460	2	Elbow, 1/2" x 3/8" 90°
21	258540	2	Spring, Compression 1/32" x 3/4" x 7/8" Long
22	349470	2	Plate, Clamp
23	349480	4	Spacer, 43/64" OD x 31/64" ID x 7/8" Long
24	349490	1	Plate, Sprocket Bolt
25	349500	2	Assembly, Half Brake Band
-	349550	-	Kit, Brake Band Complete
26	364040	1	Assembly, Swivel Motor Shield
27*	212490	2	Valve, Flow Control
28	502570	2	Bushing, Adapter 3/8" NPT x 1/2" NPTF

**\*NOTE:** Both valves should be set to the same flow. Unequal settings will cause excessive motor back pressure and shaft seal failure.

# DISCHARGE ASSEMBLY, VERTICAL

## 29" VERTICAL - 471160





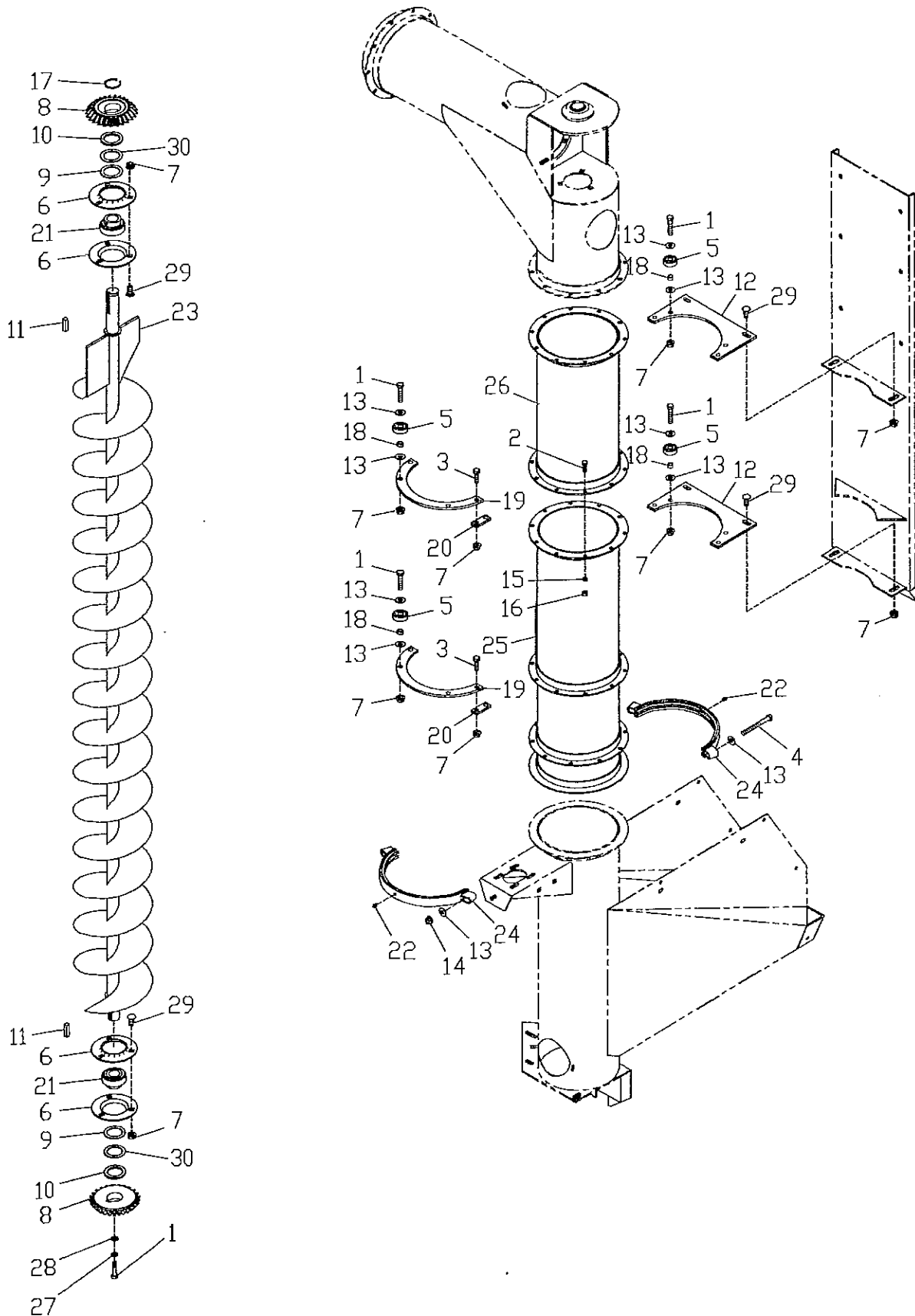
# DISCHARGE ASSEMBLY, VERTICAL

## 29" VERTICAL - 471160

Item	Part Number	Qty.	Description
1	011370	5	Bolt, HHCS 3/8"-16 x 1-1/2"
2	366890	1	Tube Weldment, 29" Vertical
3	012260	4	Bolt, HHCS 3/8"-16 x 1"
4	990820	2	Bolt, HHCS 3/8"-16 x 3"
5	013750	4	Bearing, Ball 1/2" Special
6	019150	4	Bearing, Flangette 1-1/8" 3 Bolt Round
7	020180	16	Nut, Lock 3/8"-16 Hex Flange
8	461790	2	Gear, Bevel 14 Teeth 1-1/8" Bore
9	020910	2	Washer, Flat 1-1/4" x 1-3/4" x 1/16"
10	020880	2	Washer, Flat 1-1/4" x 1-3/4" x 9/64"
11	020760	2	Key, Square 5/16" x 1-1/8"
12	367180	1	Bracket, Swivel Ring
13	021190	12	Washer, Flat 7/16" x 1" x 5/64"
14	023060	2	Nut, Lock 3/8"-16 Hex Disthreaded Grade 2
15	188340	2	Clamp Weldment. Heavy Swivel
16	469990	1	Angle Weldment. Vertical Discharge 29"
17	025710	1	Ring, Snap 1-1/4"
18	038380	4	Spacer, 3/8" x 1/2" x 5/16"
19	046060	1	Ring, Swivel
20	046130	2	Bracket, Swivel Ring Attachment
21	461780	2	Bearing, SOD 1-1/8" Spring Lock
22	115590	2	Zerk, 1/4"-28 Taper Self-Tapping Straight
23	012270	1	Washer, Flat 13/32" x 1-3/4" x 9/64"
24	021180	1	Washer, Lock 3/8" x 11/16 x 3/32
25	170530	8	Bolt, Carriage 3/8"-16 x 1"
26	020920	2	Washer, Flat 1-1/4" x 3/64"

# DISCHARGE ASSEMBLY, VERTICAL

## 45" VERTICAL - 461770

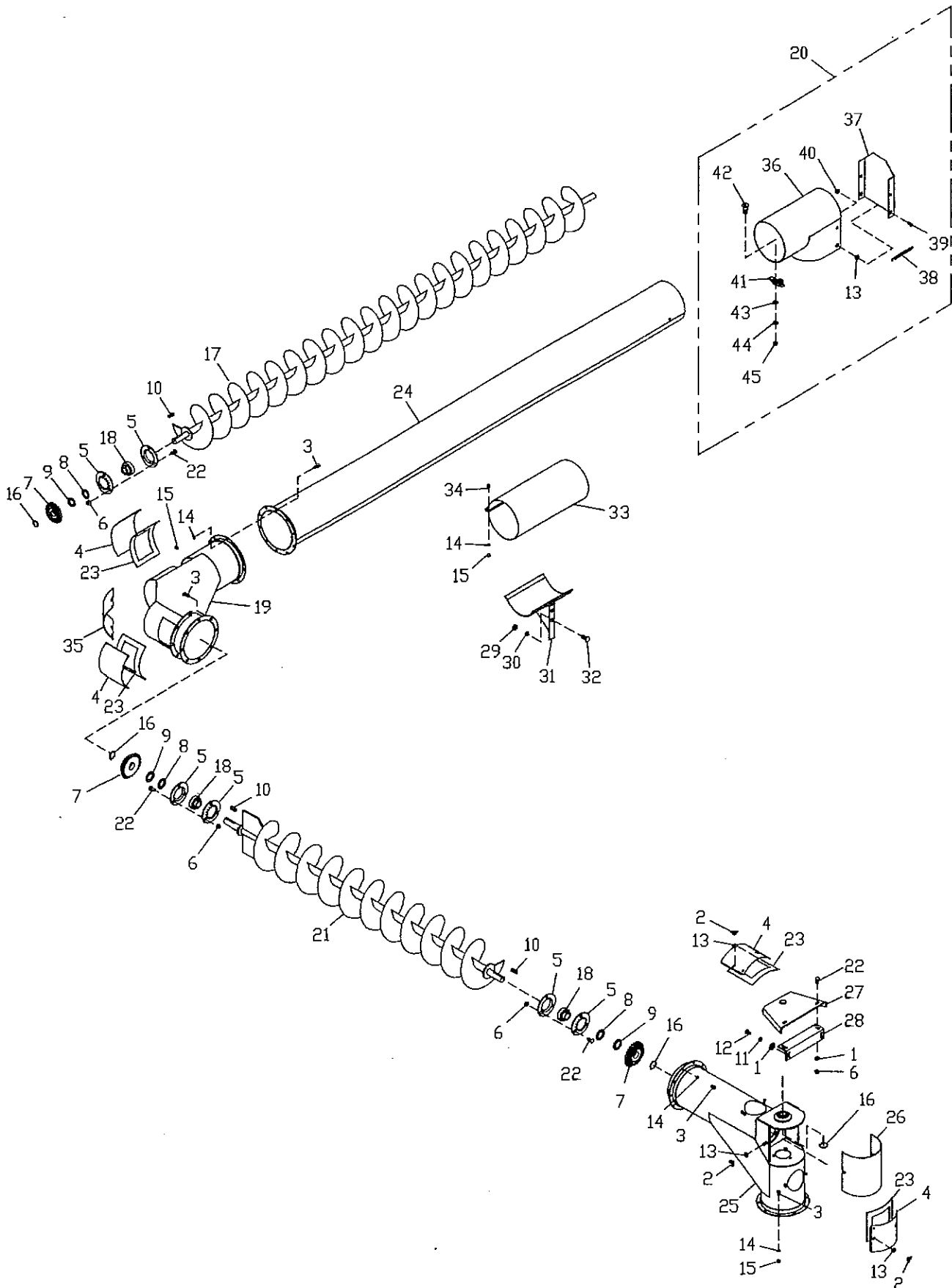


# DISCHARGE ASSEMBLY, VERTICAL

## 45" VERTICAL - 461770

Item	Part Number	Qty.	Description
1	011370	9	Bolt, HHCS 3/8"-16 x 1-1/2"
2	012140	10	Bolt, HHCS 5/16"-18 x 3/4"
3	012260	8	Bolt, HHCS 3/8"-16 x 1"
4	990820	2	Bolt, HHCS 3/8"-16 x 3"
5	013750	8	Bearing, Ball 1/2" Special
6	019150	4	Bearing, Flangette 1-1/8" 3 Bolt Round
7	020180	26	Nut, Lock 3/8"-16 Hex Flange
8	461790	2	Gear, Bevel 14 Teeth <del>1-1/8"</del> Bore <sup>1 1/4</sup>
9	020910	2	Washer, Flat 1-1/4" x 1-3/4" x 9/64"
10	020880	2	Washer, Flat 1-1/4" x 1-3/4" x 1/16"
11	020760	2	Key, Square 5/16" x 1-1/8"
12	367180	2	Bracket, Swivel Ring
13	021190	20	Washer, Flat 7/16" x 1" x 5/64"
14	023060	2	Nut, Lock 3/8"-16 Hex Disthreaded Grade 2
15	023620	10	Washer, Lock 5/16"
16	023630	10	Nut, Hex 5/16"-18
17	025710	1	Ring, Snap 1-1/4"
18	038380	8	Spacer, 3/8" x 1/2" x 5/16"
19	046060	2	Ring, Swivel
20	046130	4	Bracket, Swivel Ring Attachment
21	461780	2	Bearing, SOD <del>1-1/8"</del> Spring Lock <sup>1 1/4</sup>
22	115590	2	Zerk, 1/4"-28 Taper Self-Tapping Straight
23	461740	1	Auger Weldment, Vertical Discharge
24	188340	2	Clamp Weldment, Heavy Swivel
25	366890	1	Tube Weldment, 29" Vertical
26	366910	1	Tube Weldment, 16" Vertical
27	021180	1	Washer, Lock 3/8"
28	012270	1	Washer, Flat 13/32" x 1-3/4" x 9/64" Plain
29	170530	10	Bolt, Carriage 3/8"-16 x 1"
30	020920	2	Washer, Flat 1-1/4" x 3/64"

# INNER ELBOW ASSEMBLY, DISCHARGE - 367150

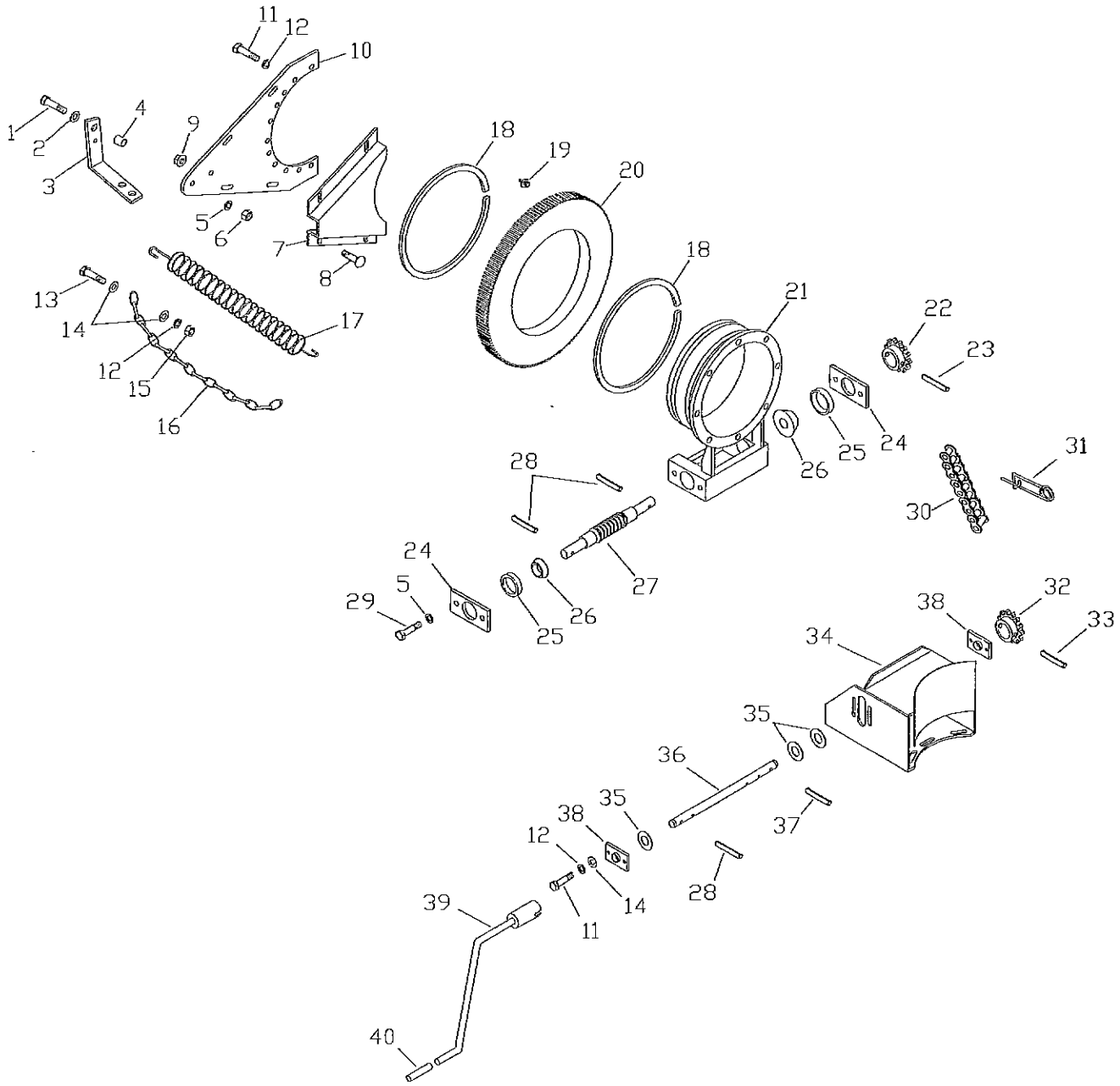


# INNER ELBOW ASSEMBLY, DISCHARGE - 367150

Item	Part Number	105 Qty.	150 Qty.	Description
1	1120374	4	4	Washer, Flat 13/32" x 13/16" x 3/64"
2	009790	2	2	Nut, Wing 5/16"-18 Type A
3	012140	22	22	Bolt, HHCS 5/16"-18 x 3/4"
4	012520	4	4	Door, Clean-Out
5	019150	6	6	Bearing, Flangette 1-1/8" 3 Bolt Round
6	020180	8	8	Nut, Lock 3/8"-16 Hex Flange
7	020580	2	2	Gear, Bevel 14 T 1-1/8" Bore
8	020650	4	4	Washer, Flat 1-9/64" x 1-5/8" x 9/64"
9	020750	3	3	Washer, Flat 1-9/64" x 1-5/8" x 7/64"
10	020760	1	1	Key, Square 5/16" x 2"
11	021180	2	2	Washer, Lock 3/8" Spring Type
12	022420	2	2	Bolt, HHCS 3/8"-16 x 3/4"
13	022920	14	14	Washer, Flat 3/8" x 7/8" x 5/64"
14	023620	23	23	Washer, Lock 5/16"
15	023630	13	13	Nut, Hex 5/16"-18
16	035200	4	4	Ring, Snap 1-1/8"
17	040960	1	1	Weldment, Auger 118-1/2"
18	108850	3	3	Bearing, SOD 1-1/8" Spring Lock
19	132871	1	1	Elbow Assembly, Light
20	152100	1	1	Hood Assembly, Discharge
21	040850	1	-	Auger Weldment, Cross 105 Bushel
21	158560	-	1	Auger Weldment, Cross 150 Bushel
22	170530	8	8	Bolt, Carriage 3/8"-16 x 1"
23	185900	4	4	Strip, Seal Discharge CO
24	205990	1	1	Tube Weldment, 8" x 103" x 16 Gauge
25	366820	1	-	Elbow Weldment, 105 Bnshel Inner
25	366810	-	1	Elbow Weldment, 150 Bnshel Inner
26	366830	1	1	Cover, Gear
27	366860	1	1	Anchor Weldment, Bearing
28	379240	1	-	Bracket, 105 Bnshel Bolt-On Extension
28	379250	-	1	Bracket, 105 Bushel Bolt-On Extension
29	005360	1	1	Nnt, Hex 1/2"-13
30	005370	1	1	Washer, Lock 1/2"
31	043480	1	1	Holder Weldment, Unloading Auger
32	005390	1	1	Bolt, Carriage 1/2"-13 x 1"
33	461230	1	1	Wrap, Discharge
34	030030	3	3	Bolt, HHCS 5/16"-18 x 1-1/4"
35	040870	1	1	Shield, Bevel Gear
36	152110	1	1	Hood Weldment
37	152170	1	1	Door, Discharge Hood
38	100750	1	1	Spring
39	006880	2	2	Bolt, HHCS 5/16" x 5/8"
40	025670	2	2	Nut, Hex 5/16"-18 Lock
41	1669184R1	2	2	Clamp
42	1159920	4	4	Screw, PHMS #10-24 x 1/2"
43	W144750056	4	4	Washer, Flat #10
44	120600	4	4	Washer, Lock #10
45	120590	4	4	Nut, Hex #10-24

# MECHANICAL RING & WORM ASSEMBLY - 367290

SHOWS ASSEMBLY FOR 105 & 150



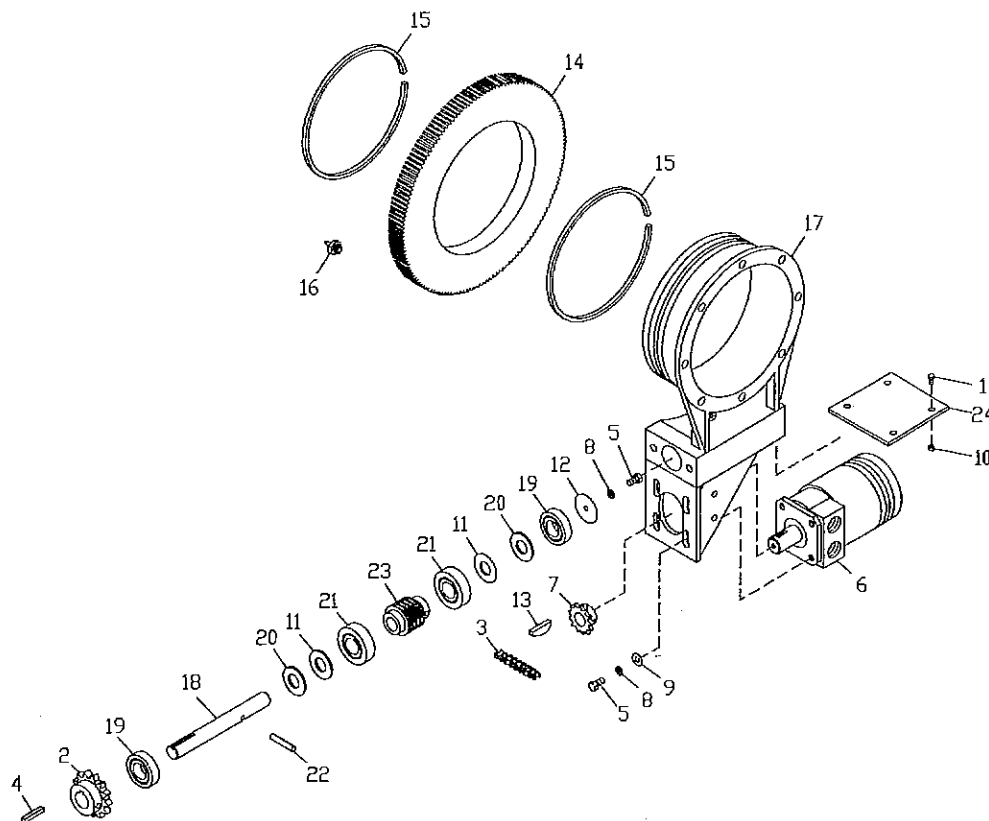
# MECHANICAL RING & WORM ASSEMBLY - 367290

## SHOWS ASSEMBLY FOR 105 & 150

Item	Part Number	Qty.	Description
1	012260	1	Bolt, HHCS 3/8"-16 x 1"
2	021190	1	Washer, Flat 7/16" x 1" x 5/64"
3	213310	1	Bracket, Lift Assist Spring
4	033460	1	Spacer, 3/8" ID x 9/32" Long
5	021180	5	Washer, Lock 3/8" Spring Type
6	027260	1	Nut, Hex 3/8"-16
7	214140	1	Channel, Lever Brace
8	254060	4	Bolt, Carriage 5/16"-18 x 1"
9	020190	4	Nut, Lock 5/16"-18 Hex Flange
10	113560	1	Lever, Lift
11	012140	10	Bolt, HHCS 5/16"-18 x 3/4"
12	023620	11	Washer, Lock 5/16"
13	005900	2	Bolt, HHCS 5/16"-18 x 1"
14	022920	7	Washer, Flat 3/8" x 7/8" x 5/64"
15	023630	2	Nut, Hex 5/16"-18
16	213430	1	Chain, 2/0 Safety
17	145590	1	Spring, Extension
18	104360	2	Ring, Retaining
19	115590	2	Zerk, 1/4"-28 Taper Self-Tapping Straight
20	126230	1	Gear, Ring with 10 Holes
21	206440	1	Holder, Ring and Worm
22	206390	1	Sprocket, 40B18 3/4" Bore
23	013600	1	Pin, Expansion 1/4" x 2"
24	204670	2	Plate, Holder
25	252720	2	Cup, Bearing
26	1758209	2	Cone, Bearing 3/4" Bore
27	206430	1	Worm and Shaft
28	012550	3	Pin, Expansion 1/4" x 1-1/4"
29	011370	4	Bolt, HHCS 3/8"-16 x 1-1/2"
30	213530	1	Chain, Roller #40 x 144 Pitches
31	140820	1	Pin, Safety 1/8" x 4-3/8"
32	113520	1	Sprocket, 40B9 5/8" Bore
33	991100	1	Pin, Expansion 3/16" x 1-1/4"
34	371760	1	Weldment, Lift Assist Bracket - 105 Bushel
34	371770	1	Weldment, Lift Assist Bracket - 150 Bushel
35	035190	3	Washer, Flat 21/32"
36	213340	1	Shaft, Lift Assist Crank
37	012560	1	Pin, Expansion 3/16" x 1"
38	114060	2	Assembly, Adjustment Plate
39	012500	1	Weldment, Crank
40	020640	1	Grip, Plastic

# HYDRAULIC RING & WORM ASSEMBLY - 133310

## SHOWS ASSEMBLY FOR 105 & 150



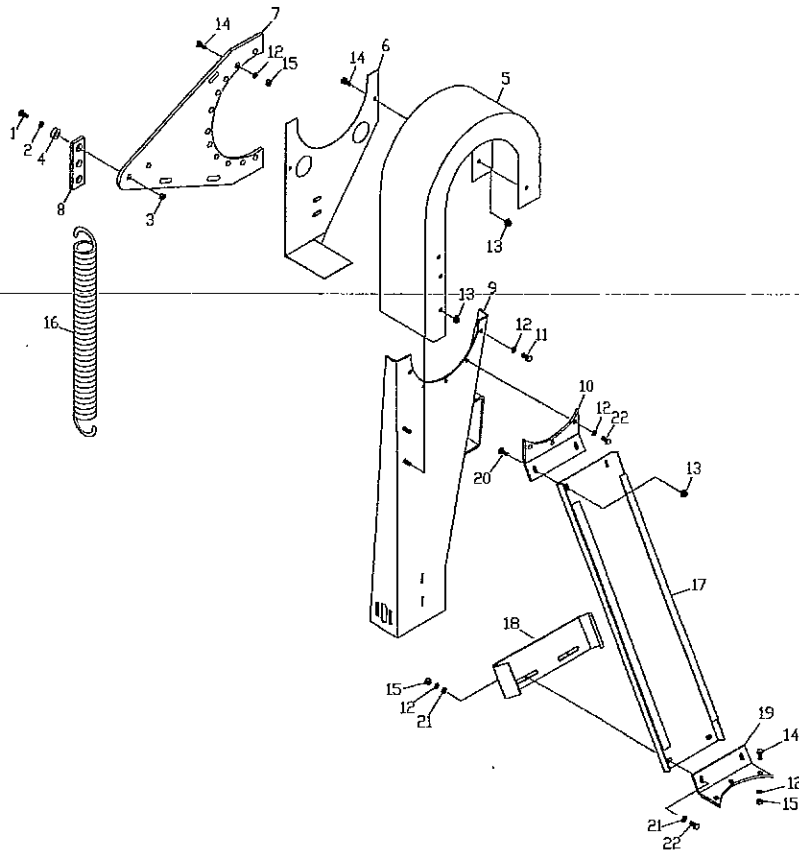
Item	Part Number	Qty.	Description
1	012051	4	Bolt, HHCS 1/4"-20 x 3/4"
2	006630	1	Sprocket, 40B18
3	006850	1	Chain, #40 Roller 30P Includes Connector
4	011500	1	Key, Square 1/4" x 1-1/2"
5	012260	4	Bolt, HHCS 3/8"-16 x 1"
6	014280	1	Motor, Hydraulic 12 cu in Displacement
7	014940	1	Sprocket, 40B13 1" ID
8	021180	4	Washer, Lock 3/8" Spring Type
9	021190	4	Washer, Flat 7/16" x 1" x 5/64"
10	023270	4	Nut, Lock 1/4"-20 Hex Flange
11	003370	2	Washer, Flat 1-1/32" x 1-1/2" x 3/64"
12	012270	1	Washer, Flat 13/32" x 1-3/4" x 9/64" Plain
13	006180	1	Key, Woodruff 1/4" x 1" Plain
14	145450	1	Gear, Ring
15	104360	1	Ring, Retaining
16	115590	2	Zerk, 1/4"-28 Taper Self-Tapping Straight
17	133850	1	Weldment, Ring and Worm Hydraulic Holder
18	1802909	1	Shaft, Worm Hydraulic
19	169730	2	Bearing, Ball 1"
20	042180	2	Washer, Flat 1-1/64" x 2-1/4" x 3/16"
21	183301	2	Bearing, Thrust 1" ID
22	1802801	1	Pin, Spring 5/16" x 1-3/4" Coiled
23	1803204	1	Gear, Worm 1" ID H/T
24	113070	1	Plate, Oil

For complete Hydraulic Ring and Worm Gear Assembly (Less motor, Chain and Sprockets) order - 18034090P



# HYDRAULIC LIFT ASSIST & SHIELDS - 367280

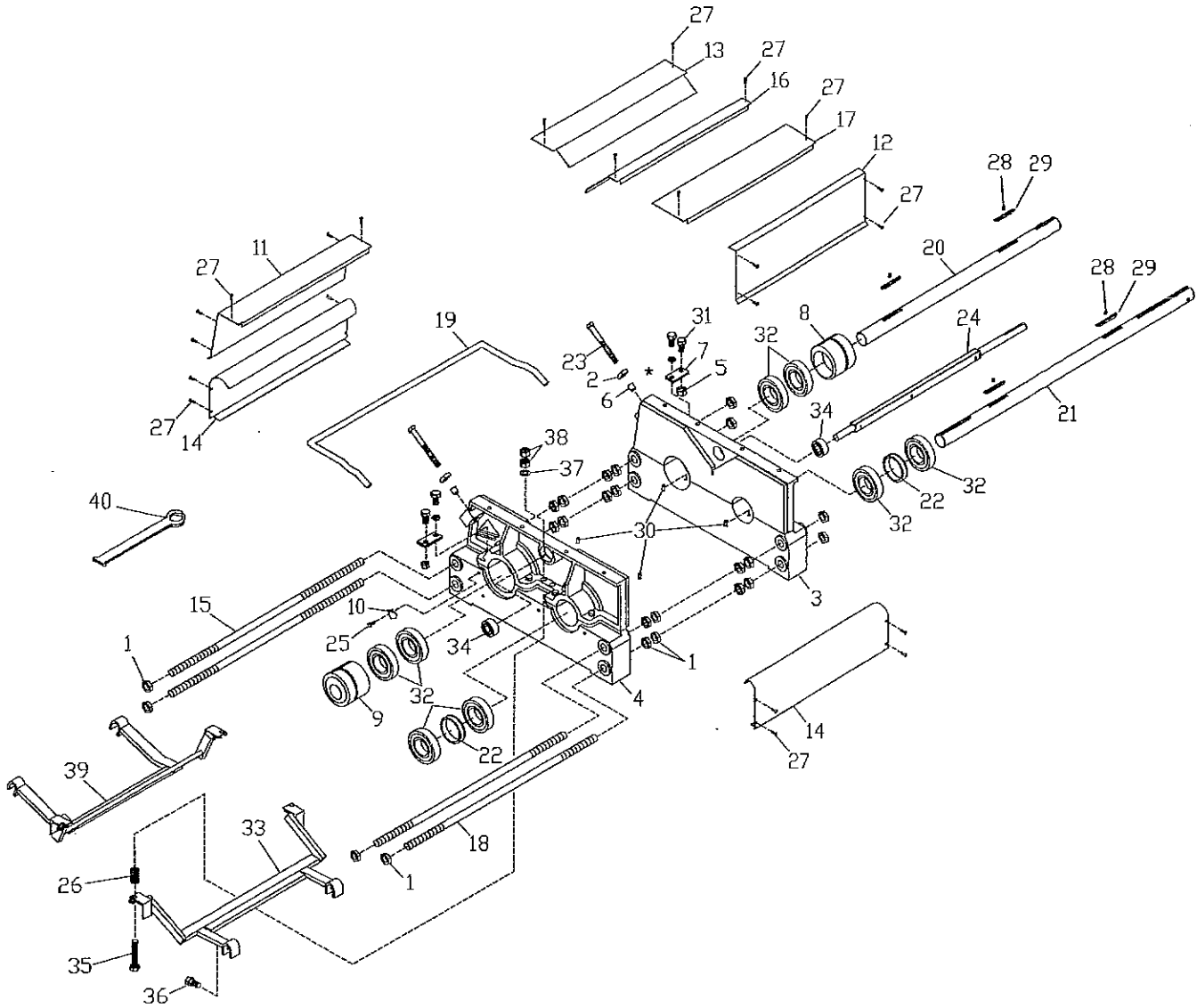
SHOWS ASSEMBLY FOR 105 & 150



Item	Part Number	Qty.	Description
1	012260	1	Bolt, HHCS 3/8"-16 x 1"
2	021190	1	Washer, Flat 7/16" x 1" x 5/64"
3	023060	1	Nut, Lock 3/8"-16 Hex Disthreaded Grade 2
4	033460	1	Spacer, 3/8" ID x 9/32" Long
5	043221	1	Weldment, Shield Ring and Worm without Decal
6	043230	1	Weldment, Lower Shield
7	113560	1	Lever, Lift
8	145580	1	Bracket, Spring Holding
9	147530	1	Assembly, Vertical Arm
10	248150	1	Bracket, Top Brace - 29"
10	371890	1	Bracket, Top Brace - 45"
11	005900	2	Bolt, HHCS 5/16"-18 x 1"
12	023620	14	Washer, Lock 5/16"
13	020190	4	Nut, Lock 5/16"-18 Hex Flange
14	012140	10	Bolt, HHCS 5/16"-18 x 3/4"
15	023630	10	Nut, Hex 5/16"-18
16	145590	1	Spring, Extension
17	371910	1	Channel, Brace - 29" Discharge
17	371920	1	Channel, Brace - 45" Discharge
18	371930	1	Stop, Swing
19	248140	1	Bracket, Brace Bottom - 29" Discharge
19	371900	1	Bracket, Brace Bottom - 45" Discharge
20	012410	2	Bolt, Carriage 5/16"-18 x 3/4"
21	022920	4	Washer, Flat 3/8" x 7/8" x 5/64"
22	030030	5	Bolt, HHCS 5/16"-18 x 1-1/4"

# ROLLERMILL, BASIC 20" - P20000

## SHOWS ASSEMBLY FOR 105 & 150



# ROLLERMILL, BASIC 20" - P20000

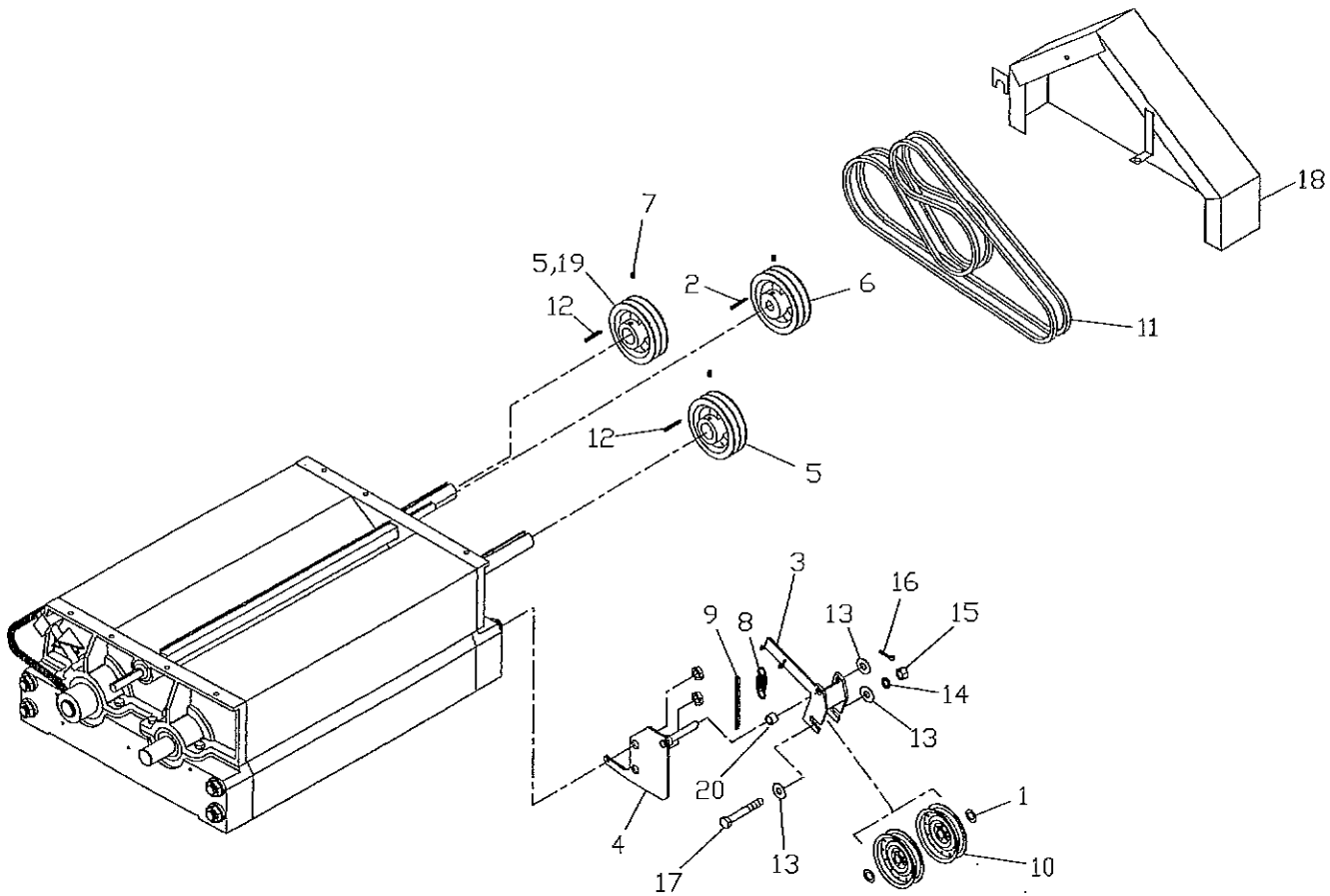
## SHOWS ASSEMBLY FOR 105 & 150

Item	Part Number	Qty.	Description
1	073310	24	Nut, Hex 7/8"-9 Jam
2	E552090	2	Nut, Square 5/8"-11 Grade 2
3	P10010*	1	Assembly, Frame Left Hand Side RollerMill
4	P10011*	1	Assembly, Frame Right Hand Side RollerMill
5	114380	2	Nut, Hex 1/2"-13 Jam
6	P10182	2	Plug, Clamp Screw
7	P10191	2	Handle, Stop
8	374600	1	Housing, Eccentric Bearing Left Hand
9	374610	1	Housing, Eccentric Bearing Right Hand
10	P10580	1	Pointer
11	P20124	1	Panel, Eccentric End
12	P20126	1	Panel, Drive Roll End Cover
13	P20127	1	Plate, Inspection Cover
14	P20128	2	Panel, Base Cover
15	395230	2	Rod, Spacer 7/8" x 29-1/2"
16	P20130	1	Plate, Feed Control Box
17	P20134	1	Panel, Top Cover
18	P96213	2	Rod, Spacer 7/8" x 28-3/4"
19	P20170	1	Handle, Eccentric Adjusting
20	P20200	1	Shaft, Eccentric Roll
21	P20210	1	Shaft, Drive Roll
22	P20215	2	Spacer, Roll Bearing
23	201660	2	Bolt, HHCS 5/8"-11 x 6"
24	P20270	1	Assembly, Agitator - 20" RollerMill
25	029450	1	Bolt, HHCS 1/4"-20 x 1/2"
26	P96936	4	Spring, Compression
27	P98341	24	Screw, PHTS #10-24 x 1/2" Slotted
28	P98300	4	Screw, HSSS 3/8" x 1"
29	P98408	4	Key, Feather 1/4" x 1/4" x 3"
30	P98417	4	Pin, Groove 1/4" x 1/2"
31	031080	2	Bolt, HHCS 1/2"-13 x 1"
32	P99000	8	Bearing, Roll Shaft
33	P73631	1	Weldment, Scraper - 20" Drive Roll
34	P99040	2	Bearing, Agitator 3/4" Bore SL12
35	P99467	4	Bolt, HHCS 3/8" x 3" Full Thread
36	1070046	4	Screw, HH 5/16"-18 x 3/4" Self-Tapping
37	022920	4	Washer, Flat 3/8" x 7/8" x 5/64"
38	027260	8	Nut, Hex 3/8"-16
39	P73612	1	Weldment, Scraper - 20" Eccentric Roll
40	416850	1	Wrench, 20" Roller Mill

\* 1/2"-13 hardware is included in items 3 and 4 side assemblies.

# 20" ROLLERMILL BELT DRIVE - 397390

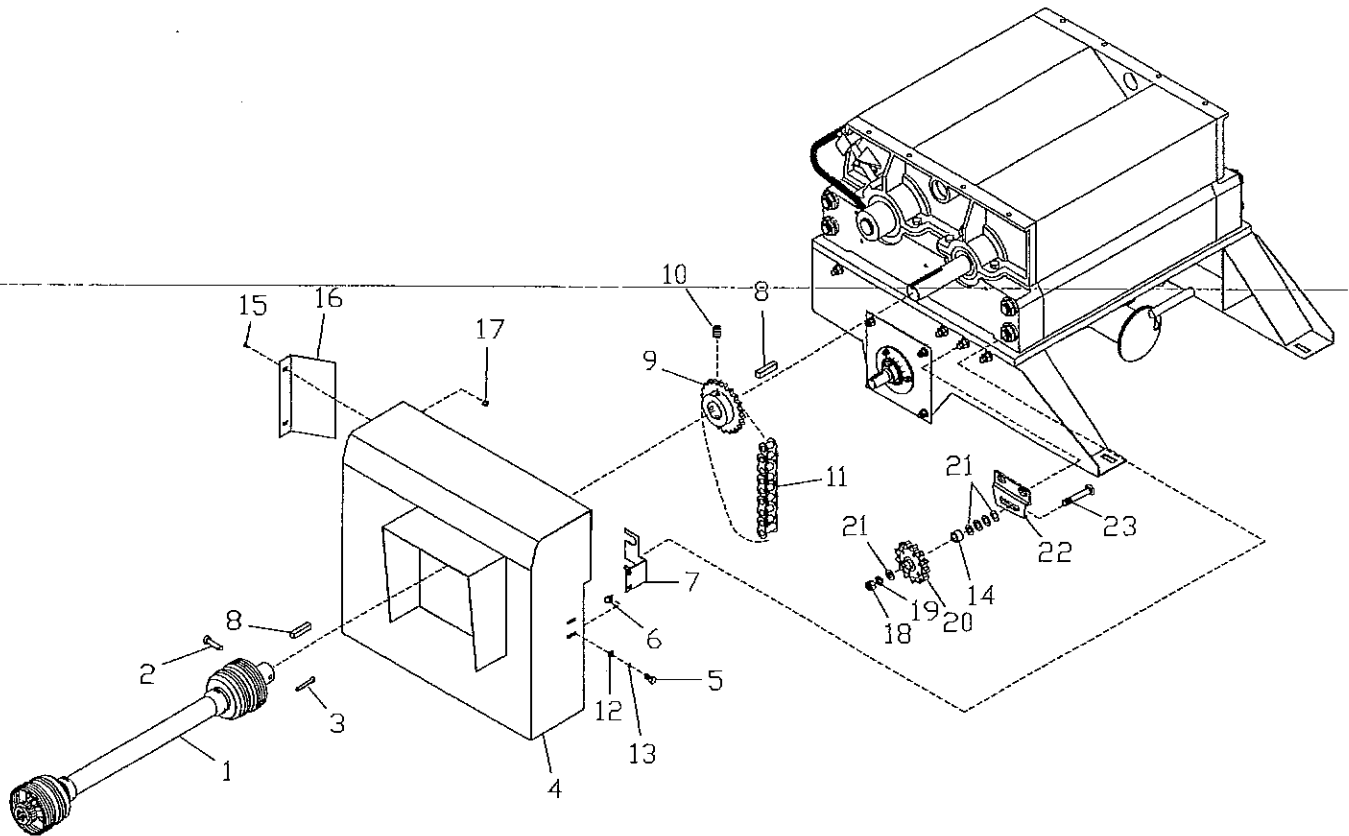
## SHOWS ASSEMBLY FOR 105 & 150



Item	Part Number	Qty.	Description
1	E126120	3	Bushing, Machined 3/4" x 1-1/4" x 18 Gauge
2	P10027	1	Key, Square 3/16" x 2"
3	P10481	1	Weldment, Bracket Tightener
4	P10486	1	Weldment, Pivot Tightener
5	P20220	2	Pulley, Roll Drive (397390)
5	P20220	1	Pulley, Roll Drive (397630)
6	P20320	1	Pulley, Agitator
7	P98298	5	Screw, AHSS 3/8"-16 x 1/2"
8	P98375	1	Spring, Extension
9	P98522	1	Chain #1 x 8 Links Straight CL
10	P99025	2	Pulley, Idler 41/64" x 4-25/64" OD
11	P99712	2	Belt, Roll Drive BB-81
12	014630	2	Key, Square 1/4" x 2"
13	020430	4	Washer, Flat 11/16" x 1-3/4" x 9/64"
14	020440	1	Washer, Lock 5/8"
15	020450	1	Nut, Hex 5/8"-11 Grade 2
16	035850	1	Pin, Cotter 5/21" x 1-1/4"
17	990670	1	Bolt, HHCS 5/8"-11 x 3-3/4"
18	P10730	1	Weldment, Belt Guard - 20" RollerMill
19	P30881	1	Pulley, Roll Speed Differential 1.12:1
20	395260	1	Spacer, Idler

# 540 RPM DRIVE ASSEMBLY, 20" ROLLERMILL

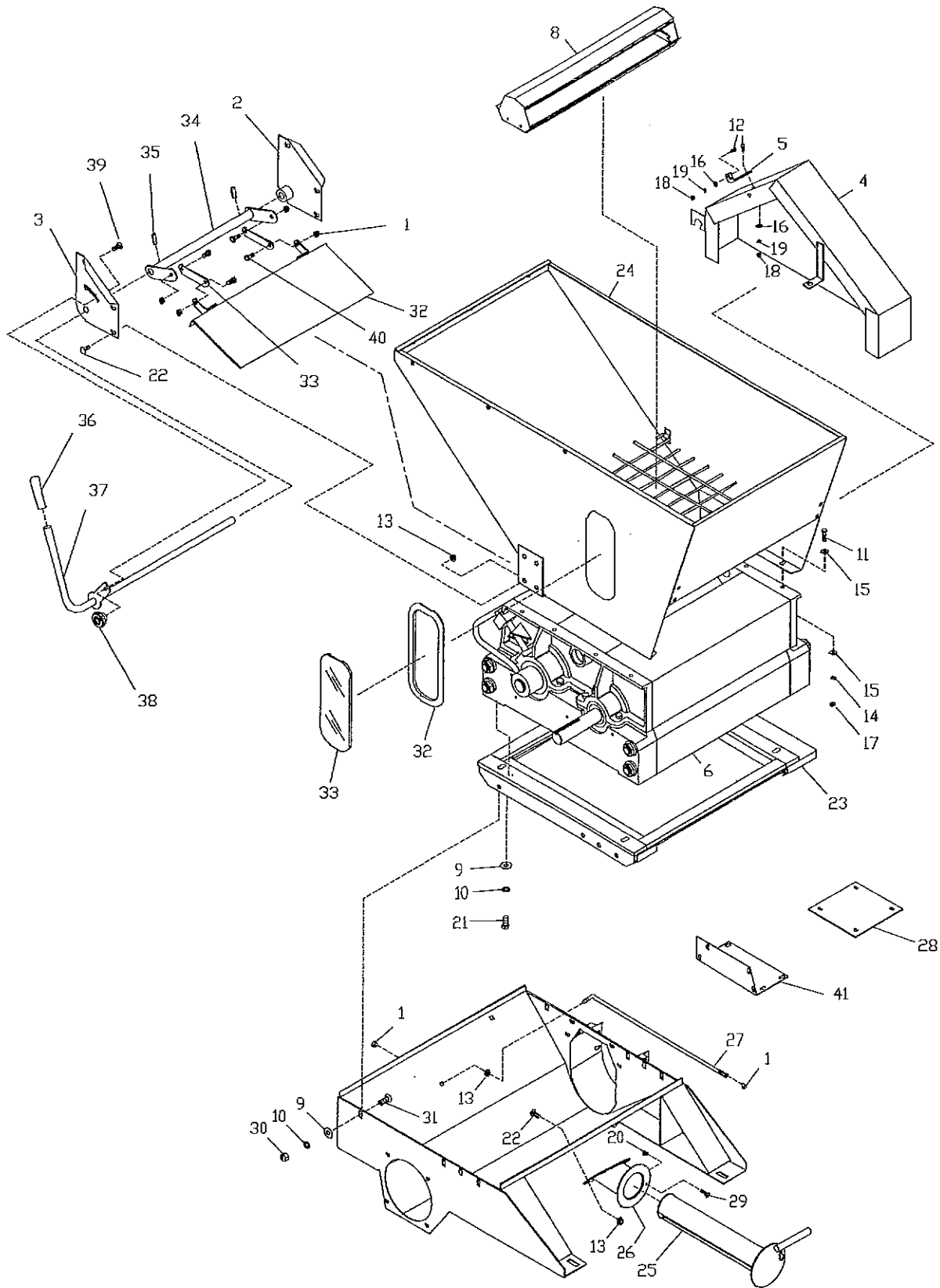
## SHOWS ASSEMBLY FOR 105 & 150 - 368550



Item	Part Number	Qty.	Description
1	374140	1	Assembly, PTO 1-3/8" x 1-3/8" (See Page 1)
2	036480	1	Pin, Clevis 5/16" x 3"
3	034360	1	Pin, Cotter 1/8" x 1"
4	483380	1	Shield Weldment, RollerMill
5	042960	4	Bolt, HHCS 1/4"-20 x 1"
6	1404766R1	4	Nut, 1/4"-20 Retainer J Speed PHC
7	379380	2	Bracket, Shield Mounting
8	014630	2	Key, Square 1/4" x 2"
9	471840	1	Sprocket, 80B20 40mm
10	010990	2	Screw, Set AHSS 5/16"-18 x 5/16" BLO
11	471830	1	Chain, RC80 64 Pitches
12	023260	4	Washer, Lock 1/4"
13	029440	4	Washer, Flat 1/4"
14	397690	1	Spacer, 3/4" x 33/64" x 15/32"
15	114994R1	2	Bolt, Carriage 5/16"-18 x 3/4"
16	494040	1	Shield, Filler
17	020190	2	Nut, Hex 5/16"-18
18	005360	1	Nut, Hex 1/2"-13
19	005370	1	Washer, Lock 1/2"
20	E366007	1	Sprocket, Idler 80A12
21	005200	4	Washer, Flat 9/16" x 1-3/8" x 7/64"
22	362570	1	Bracket, Idler
23	J03H1593	1	Bolt, Carriage 1/2"-13 x 2-1/2"

# 20" ROLLERMILL ASSEMBLY WITH OFFSET HOPPER

## SHOWS ASSEMBLY FOR 105 & 150 - 370030



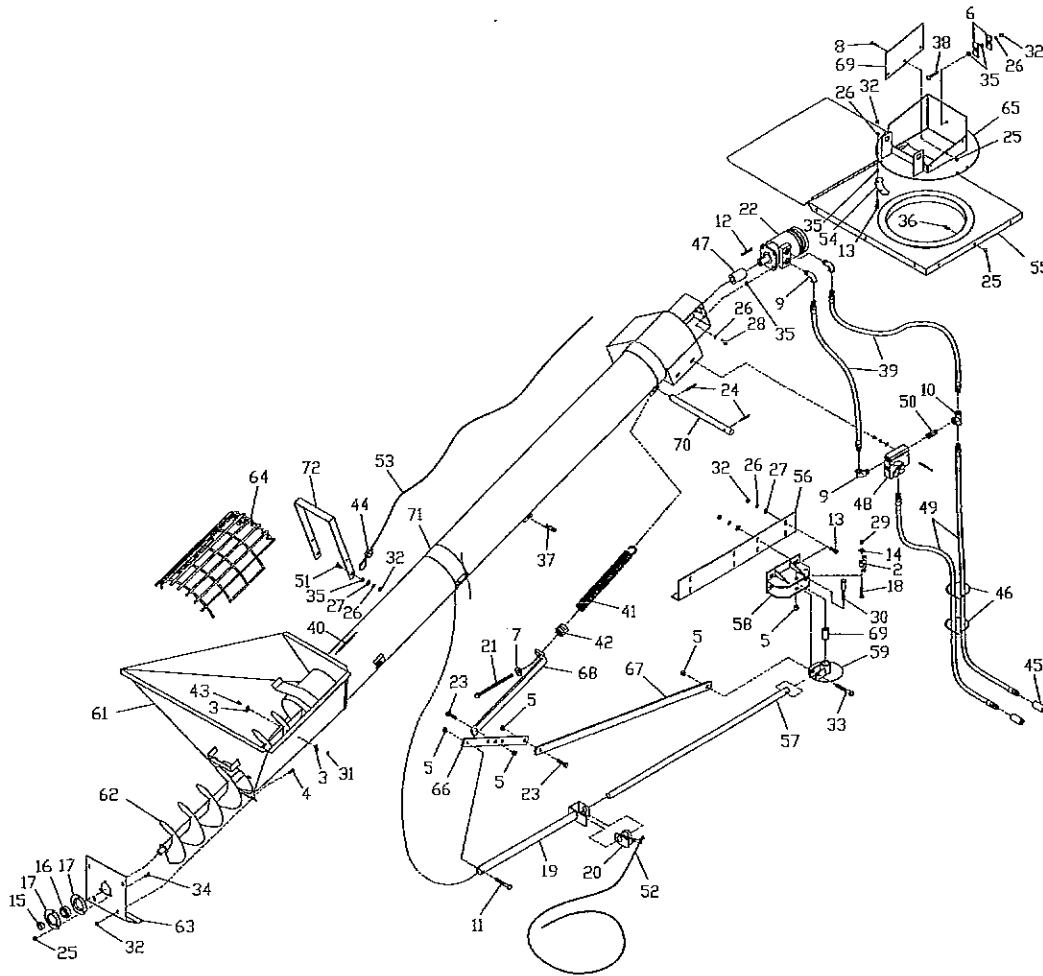
# 20" ROLLERMILL ASSEMBLY WITH OFFSET HOPPER

## SHOWS ASSEMBLY FOR 105 & 150 - 370030

Item	Part Number	Qty.	Description
1	E552044	2	Nut, Lock 3/8"-16 Hex Top Grade 2
2	P10148	2	Weldment, Set Screw
3	P10284	1	Weldment, Tube Handle
4	P10730	1	Weldment, Belt Guard - 20" RollerMill
5	P10735	1	Bracket, Belt Guard
6	P20000	1	RollerMill, Basic 20"
7	P20286	1	Weldment, Gate Grain
8	P82700	1	Assembly, Magnet 20"
9	005200	12	Washer, Flat 9/16" x 1-3/8" x 7/64"
10	005370	12	Washer, Lock 1/2"
11	006690	4	Bolt, HHCS 3/8"-16 x 1-1/4"
12	012051	2	Bolt, HHCS 1/4"-20 x 3/4"
13	020180	5	Nut, Lock 3/8"-16 Hex Flange
14	021180	4	Washer, Lock 3/8" Spring Type
15	021190	4	Washer, Flat 7/16" x 1" x 5/64"
16	023260	2	Washer, Flat 5/16" x 3/4" x 16 Gauge
17	027260	4	Nut, Hex 3/8"-16
18	027660	2	Nut, Hex 1/4"-20
19	029440	2	Washer, Lock 1/4"
20	023630	1	Nut, Hex 5/16"-18
21	031080	4	Bolt, HHCS 1/2"-13 x 1"
22	032840	4	Bolt, Carriage 3/8"-16 x 3/4"
23	365560	1	Weldment, Plate Adapter
24	371420	1	Weldment, Hopper Offset 20"
25	376630	1	Weldment, Trough Sample
26	376830	1	Weldment, Tube Lower Pan
27	376870	1	Rod, 3/8" x 23-13/16"
28	365900	1	Plate, Cap
29	144510	1	Screw, RHMS 5/16"-18 x 3/4" Grade 2
30	005360	8	Nut, Hex 1/2"-13
31	005390	8	Bolt, Carriage 1/2"-13 x 1"
32	393670	1	Gate Weldment, 20" Roller Mill
33	386240	2	Link, Lower
34	386260	1	Tube Weldment, Link
35	012560	2	Pin, Expansion 3/16" x 1"
36	150940	1	Grip, Round Handle
37	393680	1	Lever Weldment, 20" Lift
38	386130	1	Knob, Fluted 5/16"-18
39	035520	1	Bolt, Carriage 5/16"-18 x 1-1/4"
40	022420	4	Bolt, HHCS 3/8"-16 x 3/4"
41	365950	1	Cap, Angle

# AUGER FEEDER ASSEMBLY, 20" ROLLERMILL

## SHOWS ASSEMBLY FOR 105 & 150 - 370260



Item	Part Number	Qty.	Description
1	025670	2	Nut, Lock 5/16"-18 Hex Disthread
2	160560	1	Assembly, Brake Handle
3	E180006	3	Clip, Wire
4	I14994R1	4	Bolt, Carriage 5/16"-18 x 1" Square Neck Grade 2
5	I9413967	6	Nut, Lock 1/2"-13 Hex CAD 2-way Plated
6	JN185041	2	Clamp, Hose Short
7	005200	1	Washer, Flat 9/16" x 1-3/8" x 7/64"
8	005900	3	Bolt, HHCS 5/16"-18 x 1"
9	006240	3	Elbow, 1/2" x 90° Street NPTF
10	006320	1	Tee, 1/2" Pipe
11	007080	1	Bolt, HHCS 1/2"-13 x 2-1/2"
12	011530	1	Key, Square 1/4" x 1-1/4"
13	012260	15	Bolt, HHCS 3/8"-16 x 1"
14	012270	1	Washer, Flat 13/32" x 1-3/4" x 9/64" Plain
15	012300	1	Collar, Lock 1" Eccentric
16	012310	1	Bearing, SOD 1" Adapter
17	012330	2	Flangette 7/8" x 1" Bearing 3 Bolt Round
18	012420	1	Bolt, Carriage 3/8"-16 x 1-1/2" Grade 2
19	014130	1	Weldment, Support Pipe Jack Top
20	014140	1	Weldment, Clamp Drag Feed Only
21	384270	1	Bolt, HHCS 1/2" x 7" Full Thread



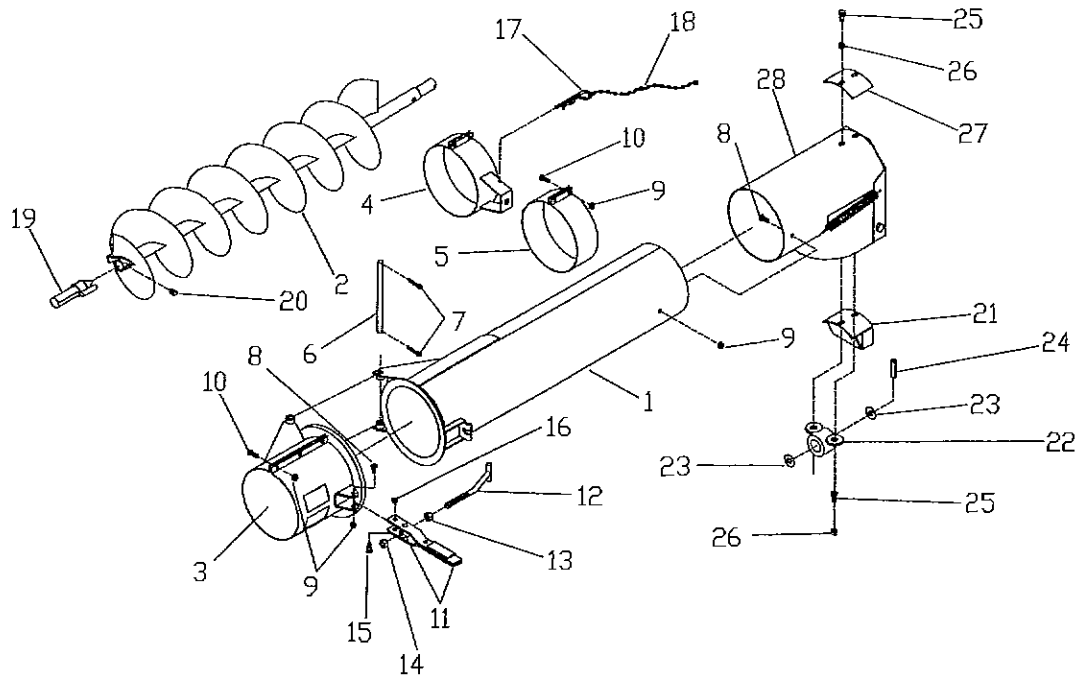
# AUGER FEEDER ASSEMBLY, 20" ROLLERMILL

## SHOWS ASSEMBLY FOR 105 & 150 - 370030 - 370260

Item	Part Number	Qty.	Description
22	014280	1	Motor, Hydraulic 12 cu in Displacement
23	014770	2	Bolt, HHCS 1/2"-13 x 1-1/2"
24	018920	4	Pin, Roll 1/4" x 1-3/4" Tension
25	020190	16	Nut, Lock 5/16"-18 Hex Flange
26	021180	20	Washer, Lock 3/8" Spring Type
27	021190	12	Washer, Flat 7/16" x 1" x 5/64"
28	022420	4	Bolt, HHCS 3/8"-16 x 3/4"
29	023060	9	Nut, Lock 3/8"-16 Hex Disthreaded Grade 2
30	990840	1	Bolt, HHCS 1/2"-13 x 3"
31	023270	2	Nut, Lock 1/4"-20 Hex Flange
32	027260	11	Nut, Hex 3/8"-16
33	031580	1	Bolt, HHCS 1/2"-13 x 2-3/4"
34	032970	3	Bolt, Carriage 5/16"-18 x 1" Grade 2
35	033460	12	Spacer, 3/8" ID x 9/32" Long
36	035290	9	Bolt, Carriage 5/16"-18 x 5/8" Grade 2
37	035830	1	Pin, Cotter 3/16" x 3" Internal Hair
38	041450	1	Bolt, Carriage 3/8"-16 x 2"
39	046640	2	Hose, Hydraulic 100R2 1/2" x 360" Male Swivel (2) SAE
40	100750	1	Spring, Extension 7/16" x 5-3/4"
41	113470	1	Spring, 2" x 14"
42	113490	1	Nut, Spring 1/2"-13 Retaining
43	E096029	2	Bolt, Carriage 1/4"-20 x 3/4"
44	129260	2	Clip, Cable 1/8"
45	133460	2	Adapter, Coupler FM 1/2"-14 NPTF
46	149670	6	Tie, Nylon Cable 3/16" x 11"
47	160140	1	Collar, Shaft Roll Feed
48	161510	1	Assembly, Valve Hydraulic Flow Control (See Page 43)
49	164560	2	Hose, Hydraulic 100R2 1/2" x 120" SAE
50	166250	1	Fitting, Hydraulic Nipple 1/2" NPT Hex Steel
51	170530	10	Bolt, Carriage 3/8"-16 x 1"
52	211490	1	Rope, Polypropylene 102" Long
53	214020	1	Assembly, Rope Wire 124" AF Mechanical
54	349470	3	Plate, Clamp
55	365680	1	Weldment, Hopper Cover 20"
56	371050	1	Angle, Mount
57	371060	1	Pipe, Lower
58	371070	1	Weldment, Support
59	371110	1	Weldment, Pivot
60	371130	1	Bushing 9/16" ID x 1" OD x 1-29/32"
61	371220	1	Auger, Grain Feeder
62	371260	1	Weldment, Grain Auger
63	371320	1	Panel, Hopper Bearing
64	372240	1	Weldment, Guard
65	372910	1	Weldment, Hopper Cap
66	372970	1	Strap, Spring Adjustment
67	372980	1	Strap, Lower
68	372990	1	Strap, Spring Extension
69	373000	1	Flap, Rubber Grain
70	373010	1	Rod, Auger Pivot
71	374100	1	Weldment, Clamp Band
72	380270	1	Bar, Declutcher

# FOLDING DISCHARGE AUGER EXTENSIONS 3' & 6'

SHOWS ASSEMBLY FOR 105 & 150, 3' - 134040, 6' - 134050

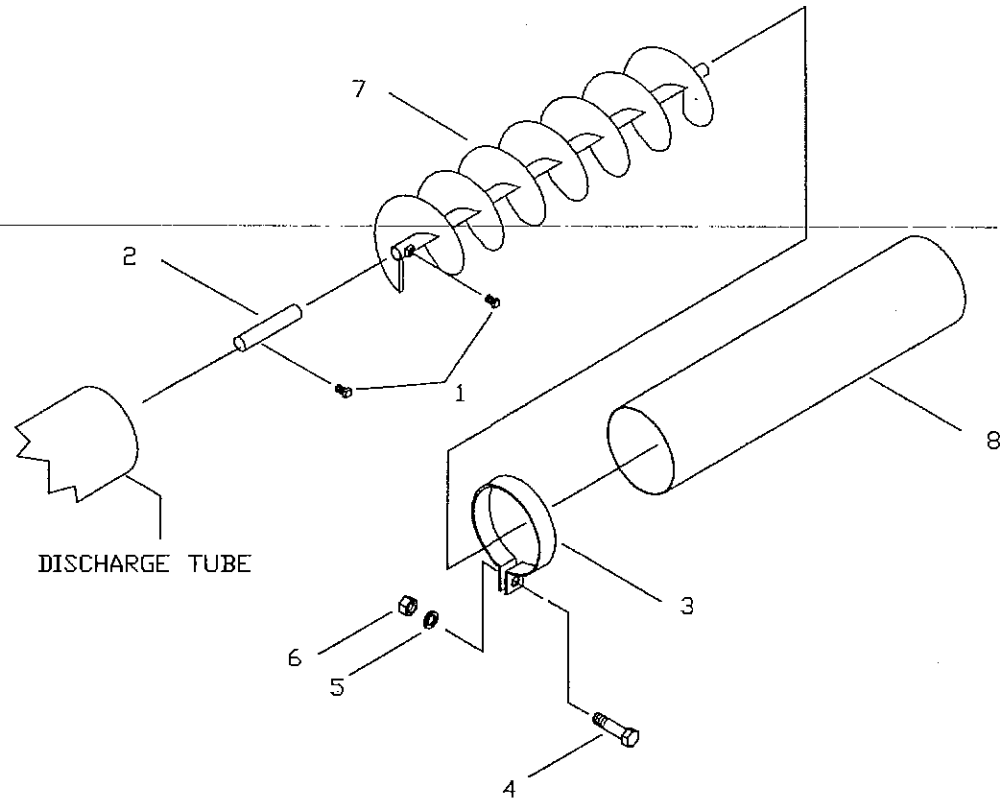


3' - 134040      6' - 134050

Item	Part Number	Qty.	Qty.	Description
1	152150	1	-	Tube, 3' Extension
1	152160	-	1	Tube, 6' Extension
2	171090	1	-	Auger, 3' Extension
2	171130	-	1	Auger, 6' Extension
3	162110	1	1	Pivot, Clamp-on with Decal
3	144650	2	2	Decal, Auger Engagement
4	134240	1	1	Clamp, Band with Strap
5	134290	1	1	Clamp, Band with Pin
6	144640	1	1	Pin, Pivot 1/2" x 8-1/2"
7	034360	2	2	Pin, Cotter 1/8" x 1"
8	028230	2	2	Screw, Slot 5/16" x 3/4"
9	020190	11	11	Nut, Lock 5/16"-18 Hex Flange
10	030030	7	7	Bolt, HHCS 5/16"-18 x 3/4"
11	127830	1	1	Handle, Locking with Pivot
12	144270	1	1	Handle, T-Bar
13	005360	1	1	Nut, Hex 1/2"-13
14	127890	1	1	Nut, Lock 1/2"
15	012410	2	2	Bolt, Carriage 5/16"-18 x 3/4"
16	025670	1	1	Nut, Lock 5/16"-18 Hex 2-Way
17	035670	1	1	Pin, Hair 3/16" x 3"
18	143700	1	1	Chain, 8" Long
19	171160	1	1	Shaft, Pivot Drive
20	008780	1	1	Screw, Set 7/16"-14 x 3/4" Square Head
21	134320	1	1	Hanger Weldment, Bearing
22	134310	1	1	Bearing, Wood Pillow Block 1-1/8"
23	020650	4	4	Washer, Flat 1-1/8"
24	013600	1	1	Pin, Expansion 1/4" x 2"
25	022420	4	4	Bolt, HHCS 3/8"-16 x 3/4"
26	020180	2	2	Nut, Lock 3/8"-16 Hex Flange
27	152200	1	1	Plate, Bearing Mounting
28	152100	1	1	Assembly, Discharge Hood (Not Included in Extension Kit)

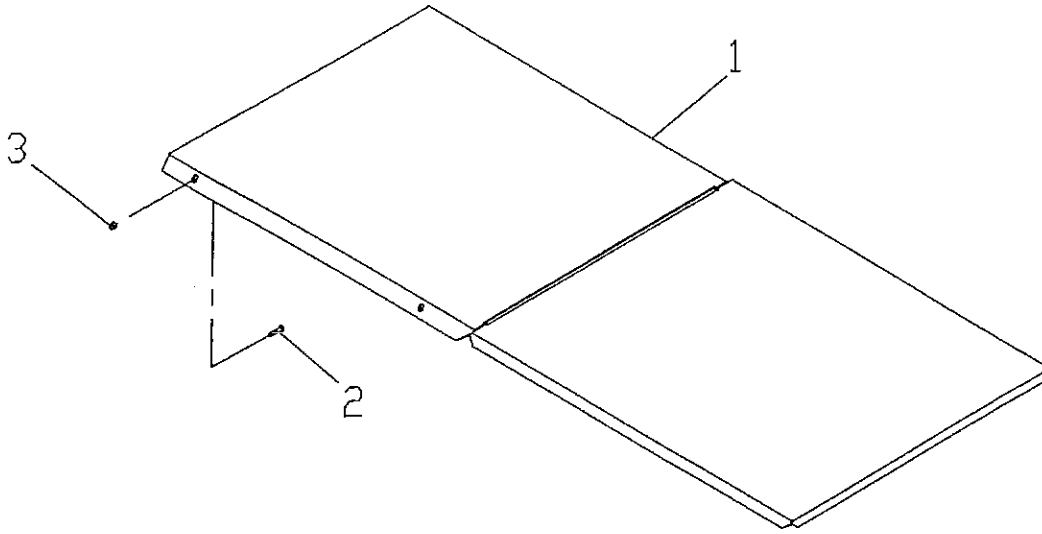
# BOLT-ON DISCHARGE AUGER EXTENSIONS 3', 4', 5' & 6'

**SHOWS ASSEMBLY FOR 105 & 150,  
3' - 147480, 4' - 147490, 5' - 147500, 6' - 147510**



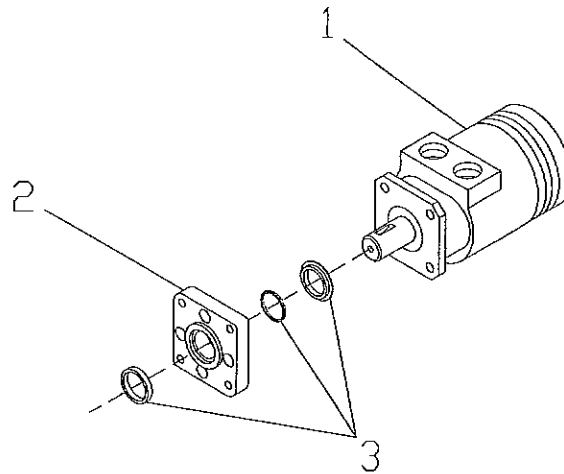
Item	Part Number	Qty.	Description
1	008780	2	Screw, Set 7/16"-14 x 3/4" Square Head
2	041130	1	Shaft, 1-1/8" dia. x 8"
3	041140	1	Band, 8" Dia.
4	006690	1	Bolt, HHCS 3/8"-16 x 1-1/4"
5	021180	1	Washer, Lock 3/8" Spring Type
6	027260	1	Nut, Hex 3/8"-16
7	041090	1	Auger, 3' Bolt-on Extension 7"Dia.
7	041100	1	Auger, 4' Bolt-on Extension 7"Dia.
7	041110	1	Auger, 5' Bolt-on Extension 7"Dia.
7	041120	1	Auger, 6' Bolt-on Extension 7"Dia.
8	041040	1	Tube, 3' Bolt-on Extension 8" Dia.
8	041050	1	Tube, 4' Bolt-on Extension 8" Dia.
8	041060	1	Tube, 5' Bolt-on Extension 8" Dia.
8	041070	1	Tube, 6' Bolt-on Extension 8" Dia.

# COVER ASSEMBLY FOR 20" OFFSET HOPPER - 463230 WITHOUT AUGER FEEDER



Item	Part Number	Qty.	Description
1	463230	1	Weldment, Cover without Auger Feeder
2	035290	4	Bolt, Carriage 5/16"-18 x .625" Grade 2
3	020190	4	Nut, Lock 5/16"-18 Hex Flange

## HYDRAULIC MOTOR KITS

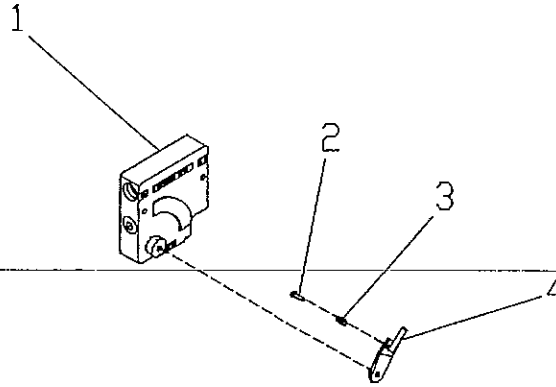


Item	Part Number	Qty.	Description
1	014280	1	Motor, Hydraulic 12 cu in Displacement
1	110980	1	Motor, Hydraulic (Swing)
2	1799207	1	Kit, Flange (014280 and 111090)
2	217500	1	Kit, Flange (014210 and 111090)
3	1780700	1	Kit, Seal Ross TRW (014280 and 111090) - Series MAC, #MAC500002*
3	242510	1	Kit, Seal Ross TRW (014280 and 111090) - Series MAG, #MAC500001*
3	243040	1	Kit, Seal Ross TRW (014280 and 111090) - Series MG, #SK000090*

\*Notes kind and series of motor used

# VALVE ASSEMBLY - 161510

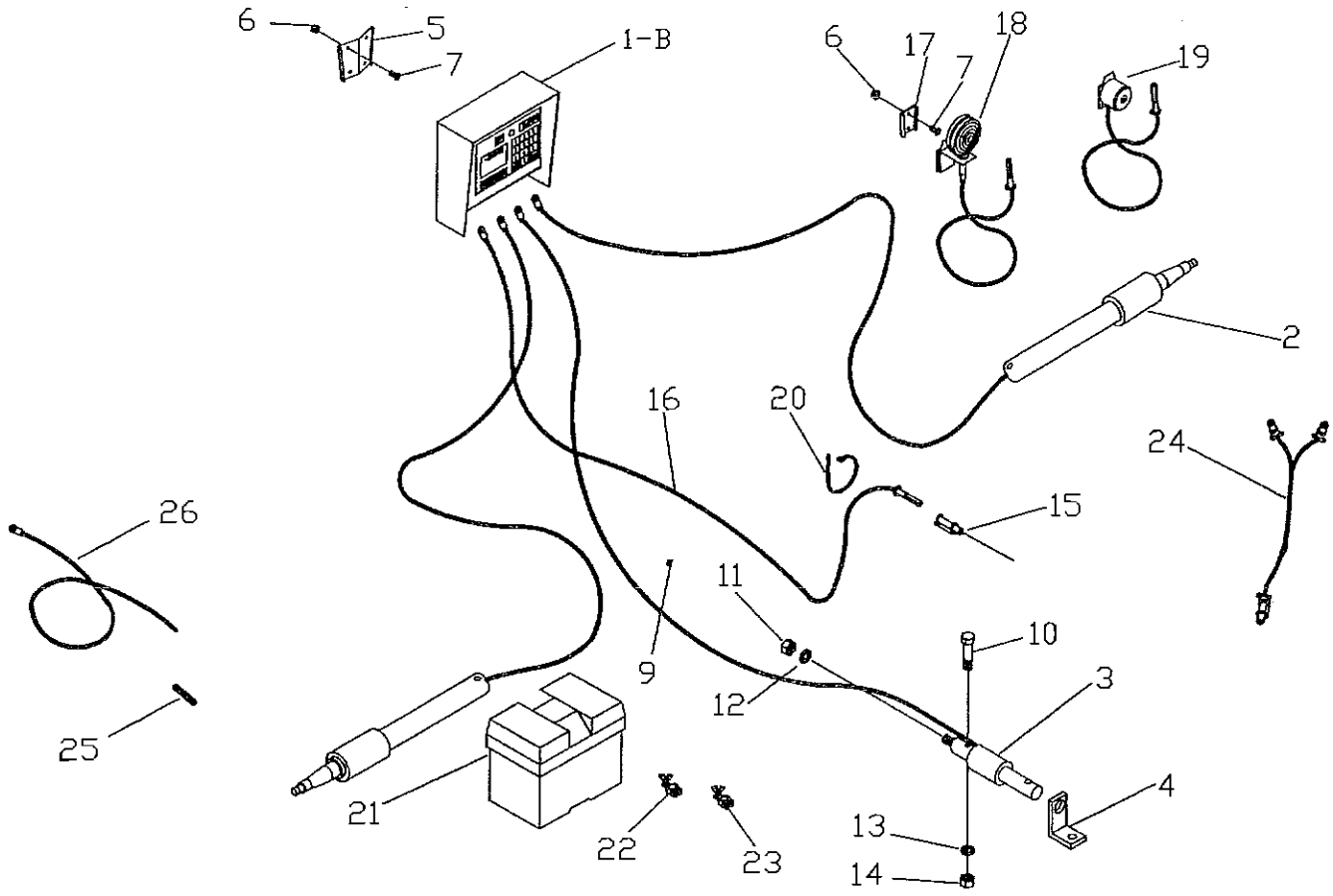
SHOWS ASSEMBLY FOR 105 & 150



Item	Part Number	Qty.	Description
1	006301	1	Valve, Flow Control without Handle
2	012172	2	Pin, Clevis 3/8" x 1"
3	042390	2	Spring, 13/32" x 1/2" x 1-3/64"
4	161500	1	Lever Weldment, Hydraulic Control

# ELECTRONIC SCALE ASSEMBLY

## SHOWS ASSEMBLY FOR PM25 & PM35



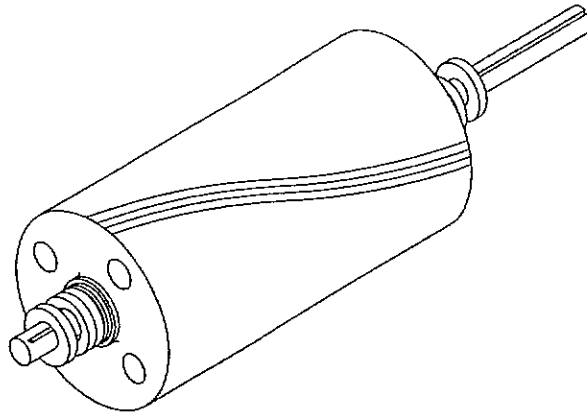
# ELECTRONIC SCALE ASSEMBLY

## SHOWS ASSEMBLY FOR 105 & 150

Item	Part Number	Qty.	Description
1A	4243701	1	Indicator, Model 615 - 3 Connector/5 Pin Plug
1B	4243801	1	Indicator, Model 715 - 3 Connector/5 Pin Plug (Shown)
1C	4243901	1	Indicator, Model 1015 - 3 Connector/5 Pin Plug
2	040581	2	Spindle, Weigh Bar 5-Pin - 105 Bushel Only
2	040611	2	Spindle, Weigh Bar 5-Pin - 150 Bushel Only
3	219870	1	Hitch, Weigh Bar 5-Pin - 105 Bushel and 150 Bushel
4	036740	1	Clevis, Hitch 1-7/8"
5	036670	1	Bracket, Indicator
6	023270	-	Nut, Lock 1/4"-20 Hex Flange
7	021240	-	Screw, Truss Head 1/4"-20 x 1/2"
8	219880	1	Plug, 5-Pin Plug (for Four Connector Indicators Only)
9	036890	3	Clip, Spring
10	990960	-	Bolt, HHCS 3/4"-10 x 4-1/2"
11	147310	-	Nut, Hex 1"-8 Grade 2
12	003350	-	Washer, Lock 1" Split
13	036800	-	Washer, Lock 3/4" Split
14	036750	-	Nut, Hex 3/4"-10 Grade 2
15	036780	-	Connector, Power Cord (Female)
16	147060	-	Cord, 23' Digital Power
17	039261	-	Bracket
18	111900	-	Light, Warning Digital
19	111880	-	Horn, Digital Warning
20	149670	12	Tie, Nylon Cable 3/16" x 11"
21	039690	-	Box, Battery
22	135440	-	Clamp, Positive Battery
23	135450	-	Clamp, Negative Battery
24	199090	-	Adapter, Dual
25	1727206	-	Splice Kit, Weighbar Cord
26	253210	-	Pig Tail, 5 Pin with B Connector with 1' Cord
26	253211	-	Pig Tail, 5 Pin with B Connector with 10' Cord
26	253212	-	Pig Tail, 5 Pin with B Connector with 20' Cord

# NEW OR REGROOVED 20" ROLLS

## DRIVE ROLL ASSEMBLY



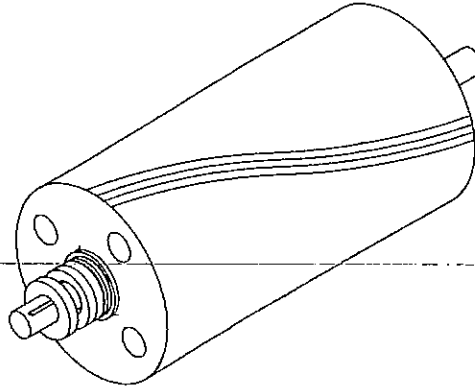
New	Regrooved	Description
382220	382221	Assembly, Roll 5 Groove Flat
396900	396901	Assembly, Roll 5 Groove Sharp
382230	382231	Assembly, Roll 7 Groove Flat
396920	396921	Assembly, Roll 7 Groove Sharp
382240	382241	Assembly, Roll 10 Groove Flat
388450	388451	Assembly, Roll 10 Groove Sharp
388470	388471	Assembly, Roll 12 Groove Sharp

Roll assemblies include shaft and bearings.



# NEW OR REGROOVED 20" ROLLS

## IDLER (ECCENTRIC) ROLL ASSEMBLY



New	Regrooved	Description
382250	382251	Assembly, Roll 5 Groove Flat
396910	396911	Assembly, Roll 5 Groove Sharp
382260	382261	Assembly, Roll 7 Groove Flat
396930	396931	Assembly, Roll 7 Groove Sharp
382270	382271	Assembly, Roll 10 Groove Flat
388480	388481	Assembly, Roll 10 Groove Sharp
388500	388501	Assembly, Roll 12 Groove Sharp

Roll assemblies include shaft and bearings.



# HYDRAULIC PLUMBING

## SHOWS ASSEMBLY FOR 105 & 150

### Lift and Swing with Hydraulic Auger Feeder

Item	Part Number	Qty.	Description
1	164550	2	Hose, Hydraulic 100R2 1/2" x 120" SAE
2	166230	4	Elbow, Street 1/2" x 90° NPTF
3	-	-	-
4	012260	-	Bolt, HHCS 3/8"-16 x 1"
5	020180	-	Nut, Lock 3/8"-16 Hex Flange
6	022920	-	Washer, Flat 3/8" x 7/8" x 5/64"
7	023620	-	Washer, Lock 5/16"
8	023630	-	Nut, Hex 5/16"-18
9	166150	2	Hose, Hydraulic 100R2 1/2" x 168" SAE
10	274460	2	Elbow, Street 1/2" x 3/8" 90°
11	159460	1	Decal, Valve Direction
12	160230	-	Bolt, HHCS 5/16" x 3"
13	163280	1	Valve, Dual Relief 800 psi
14	163290	1	Valve, Double Selector
-	248060	-	Valve Kit, Handle
-	277270	-	Valve Kit, Seal
15	E356012	4	Hose, Hydraulic 100R2 1/2" x 144" SAE
16	160330	1	Plate, Selector Valve
17*	212490	2	Valve, Flow Control
18	502570	2	Bushing, Reducer 1/2" x 3/8"

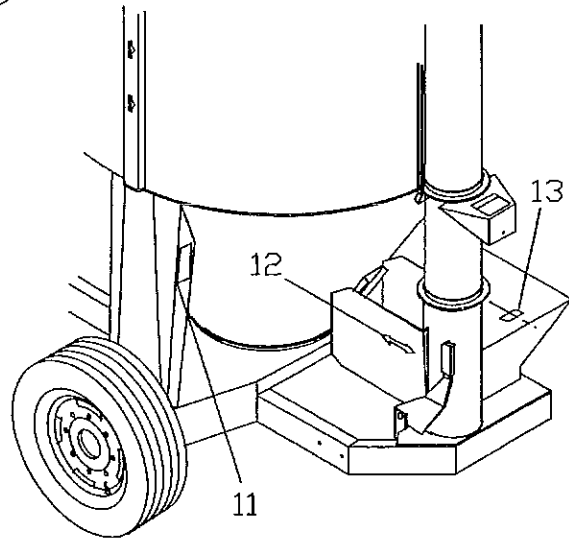
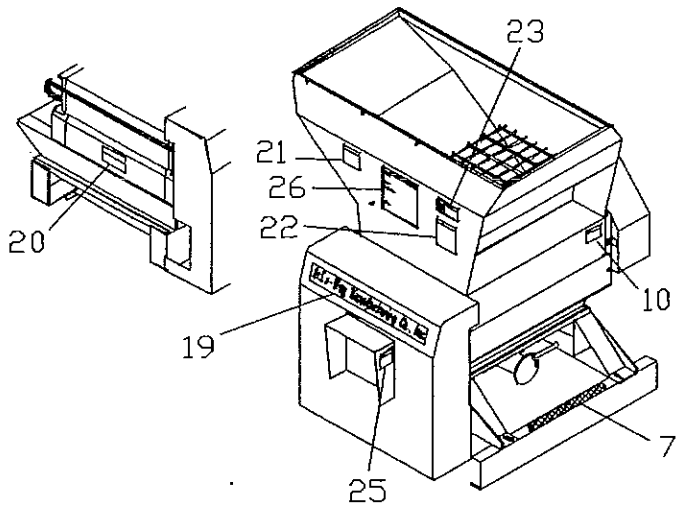
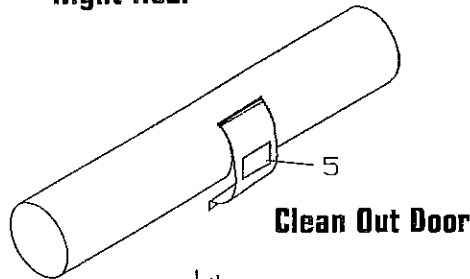
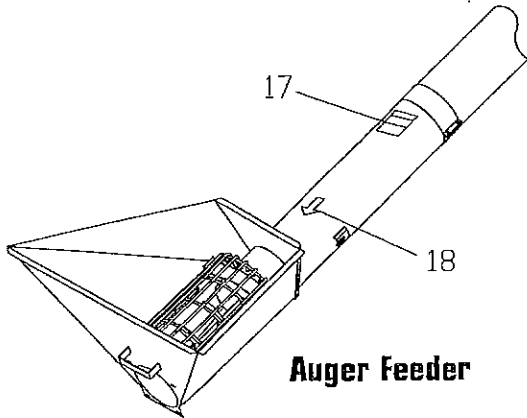
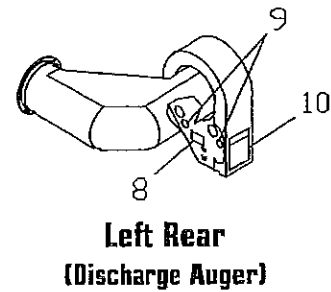
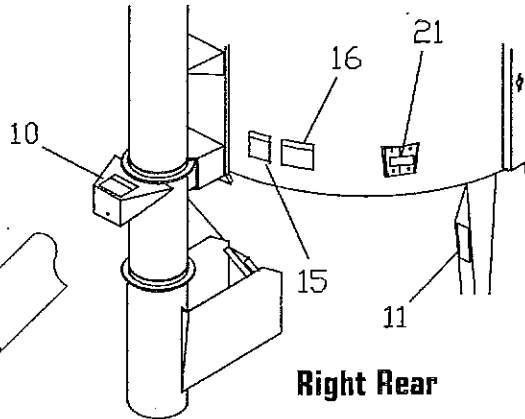
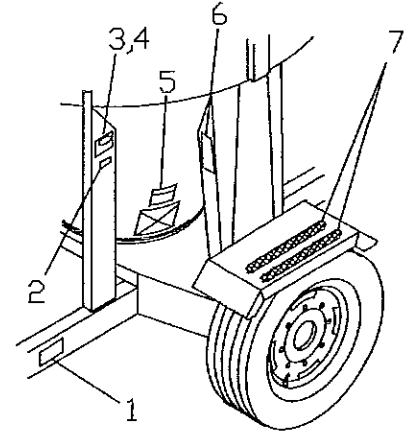
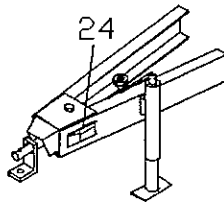
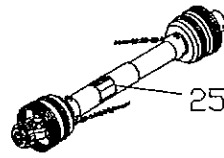
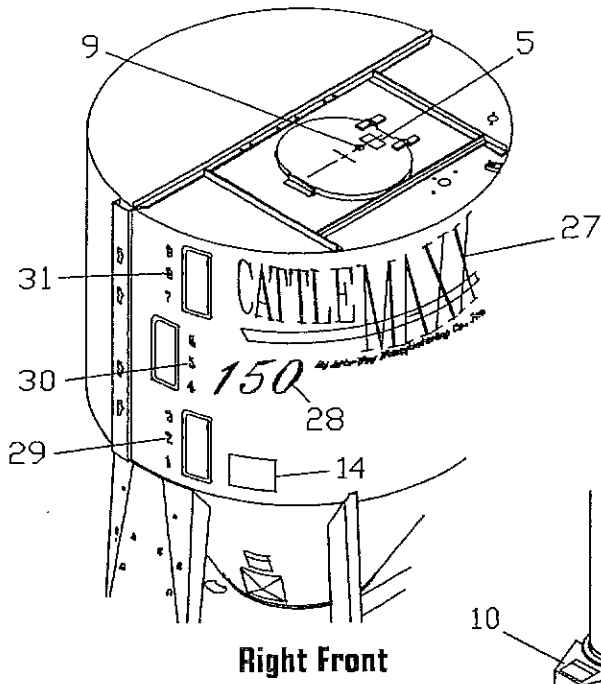
### Lift and Swing without Hydraulic Auger Feeder

Item	Part Number	Qty.	Description
1	E356012	2	Hose, Hydraulic 100R2 1/2" x 144" SAE
2	166150	2	Hose, Hydraulic 100R2 1/2" x 168" SAE
3	046090	4	Hose, Hydraulic 100R2 1/2" x 240" SAE
4	274460	2	Elbow, Street 1/2" x 3/8" 90°
5	163280	1	Valve, Dual Relief 800 psi
6*	212490	2	Valve, Flow Control
7	502570	2	Bushing, Reducer 1/2" x 3/8"

\*NOTE: Both valves should be set to the same flow. Unequal settings will cause excessive motor back pressure and shaft seal failure.

# PAINT & DECALS

## FOR 105 & 150



# PAINT & DECALS

## FOR 105 & 150

Item	Part Number	Qty.	Description
1	159460	1	Decal, Valve Direction
2	041601	1	Decal, Patent Numbers
3	355500	1	Tag, Serial Number Finished
4	204510	4	Nail, 1/4" Grip
5	377280	4	Decal, Caution Do Not Open
6	476460	1	Reflector, Amber
7	117720	3	Tape, Anti-Skid
8	168620	1	Decal, Hydraulic Ring Gear
9	146670	3	Decal, Grease Symbol
10	467450	5	Decal, Moving Parts Hazard
11	476450	2	Reflector, Red
12	158530	1	Decal, Start-Stop Auger
13	212350	1	Decal, Supplement Instruction
14	209680	1	Decal, 105 Bushel Weight and Measures
14	212450	1	Decal, 150 Bushel Weight and Measures
15	384000	1	Decal, Danger Electrocution Hazard
16	041620	1	Decal, Electric Scale Bracket
17	383990	1	Decal, Danger Auger Feeder
18	158520	1	Decal, Auger Feeder Stop
19	447650	1	Decal, Art's-Way Silver
20	P99846	1	Decal, Adjust Feed Flow
21	383320	1	Decal, Attention Foreign Material
22	368040	1	Decal, Caution Safety Instructions
23	P99897	1	Decal, Warning Rolls Belts
24	383970	1	Decal, Caution Hitch Instructions
25	268860	1	Decal, Danger, Rotating Drive Line
26	417250	1	Decal, RollerMill Operation
27	435020	1	Decal, CattleMaxx
28	447630	1	Decal, 105 CattleMaxx
28	447640	1	Decal, 150 CattleMaxx
29	447700	1	Decal, Tank 1, 2, 3 Silver
30	447710	1	Decal, Tank 4, 5, 6 Silver
31	447720	1	Decal, Tank 7, 8, 9 Silver
32	384030	1	Decal, Danger 540 RPM
-	022010	-	Paint, Art's-Way Green - 1 Gallon Can
-	021990	-	Paint, Art's-Way Green - 1 Quart Can
-	043121	-	Paint, Art's-Way Green - 16 oz. Spray Can
-	349720	-	Paint, Art's-Way Red - 1 Gallon Can
-	349700	-	Paint, Art's-Way Red - 16 oz. Spray Can

# SPECIFICATIONS

## CattleMaxx

	CattleMax 105	CattleMax 150 (45" Discharge)
<b>Tank and Frame</b>		
Capacity of mixing tank:	105 bushel (129 cu. ft.)	150 bushel (187 cu. ft.)
Height (variable with tire size):	106	119"
Width with auger feeder:	95"	111"
Overall length:	170"	175"
Weight:	3,560 lbs.	4,350 lbs.
<b>Discharge Auger</b>		
Auger length (standard):	125"	125"
Auger diameter:	7"	7"
Auger tube diameter:	8"	8"
10' main auger at 60° angle:	16' 7"	17' 8"
Horizontal operating arc:	324°	316°
Vertical operating arc:	Infinite	Infinite
<b>Auger Feeder</b>		
Auger length:	117"	117"
Auger diameter:	7"	7"
Auger hopper width:	23"	23"
Height of hopper from ground in down position:	17-1/2"	17-1/2"
Height of hopper from ground in up position:	42"	51"
<b>Mixing Auger</b>		
Auger width:	12"	12"
Mixing base:	24"	24"
<b>Supplement Hopper:</b>		
Auger diameter	7"	7"
Hopper size:	21" x 24"	21" x 24"
Height from ground:	34"	39"
<b>RollerMill*</b>		
Width of mill:	20"	20"
Roll diameter:	10"	10"
Operating speed of PTO:	540 rpm	540 rpm
Operating speed of mill:	540 rpm	540 rpm
Roll grooves available:	5, 7 & 10	5, 7 & 10
Type of drive:	PTO Direct	PTO Direct
Power required:	50 hp	50hp

\*Rolls are regroovable.

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## Quality Manufacturers of:

- **SupRaMix® - forage vertical tub mixer**  
425, 500 or 710 cu. ft. capacity
- **Portable Mixer-Processor**  
105 bushel with 20" hammer Mill or 150 bushel with 26" Hammer Mill.
- **CATTLEMAXX - Cattle Processing**  
105 bushel or 150 bushel with 20" Roller Mill for cattle applications.
- **Hammer Mills**  
26" electrically or PTO driven mills.
- **Roller Mills**  
10", 20", 30" or 36" PTO or electrically driven mills.
- **SCALE SYSTEMS**  
Electronic weighing equipment — from basic weighing to a computerized system.  
Platform Scales  
Universal Scales  
Small Animal Scales  
Mounting Scales  
Scale Accessories  
Indicators, single ingredient & Batching
- **UFT Grain Drills**  
10', 12', 15' or 30' seeding width.
- **UFT High Dump Wagons**
- **Speedy Edible Bean Equipment**  
Bean cutters and windrowers.
- **Finishing Mowers**  
60" or 72" Mid-Mount Mowers
- **Eversman Ditchers**  
43" to 84" ditch width.  
20" to 33" ditch depth.
- **Eversman Land Planes**  
16', 20' or 24' blade widths.
- **Agricultural Graders**  
Landstar 12' or 14' widths.
- **Sugar Beet Defoliators**  
4 to 12 row defoliators with different row spacings. Optional hydraulic or mechanical scalpers.
- **Sugar Beet Harvesters**  
4 to 8 row harvesters with different row spacings.
- **MEGA tater**  
4-row potato harvester.
- **LOGAN - Potato Equipment**  
Potato Harvesters, Potato Planters,  
Windrowers and Bulk Boxes.
- **Art's-Way/UFT Flail Shredders**  
Various cutting widths.

**Art's-Way Manufacturing Co., Inc.**

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