OPERATORS MANUAL & PARTS BOOK

510 GRAIN CART





1050 E. COLUMBIA P.O. BOX 168 ARTHUR, IL 61911 TOLL FREE: 800-677-2802 PHONE: 217-543-3471 WWW.E-ZTRAIL.COM

WARNING

Do not attempt to clean, adjust, lubricate, or enter the grain cart while any part is in operation.

Do not start the machine without all guards & shields in place & in good working condition.

Do not operate on public roads unless equipped with proper lighting or warning devices. It is the responsibility of the user & owner to install lighting or other equipment as required by state & federal laws.

Do not allow children to play on or around the grain cart.

OPERATION

The indicator flag on the front of the cart shows the position of the inner door.

When engaging the PTO, the door should be closed & and the tractor should be running at low RPM's to prolong the life of the driveline & gearbox.

With the auger running, open the door to begin unloading grain. Do not exceed 750 PTO RPM for maximum efficiency & auger life.

When the cart is nearly empty, the door can be partially closed to provide better clean out.

Over tightening of the shear bolt on the front PTO yoke creates excessive friction, which drastically increases shear torque and can damage or result in premature failure of the gearbox. Always use a locknut on the shearbolt and leave the nut loose enough that you can turn the bolt with your fingers.

The top auger must remain locked in the unloading position while the PTO is engaged. Folding the top auger while the auger is turning can cause damage to the augers.

The top auger is equipped with an over-center lock to hold the auger in unloading position. If the auger will not fold down, the lock may be going too far over center. To correct this, a shim can be placed between the square bar & the stop pin on the linkage bars.

MAINTENANCE

Grease regularly:

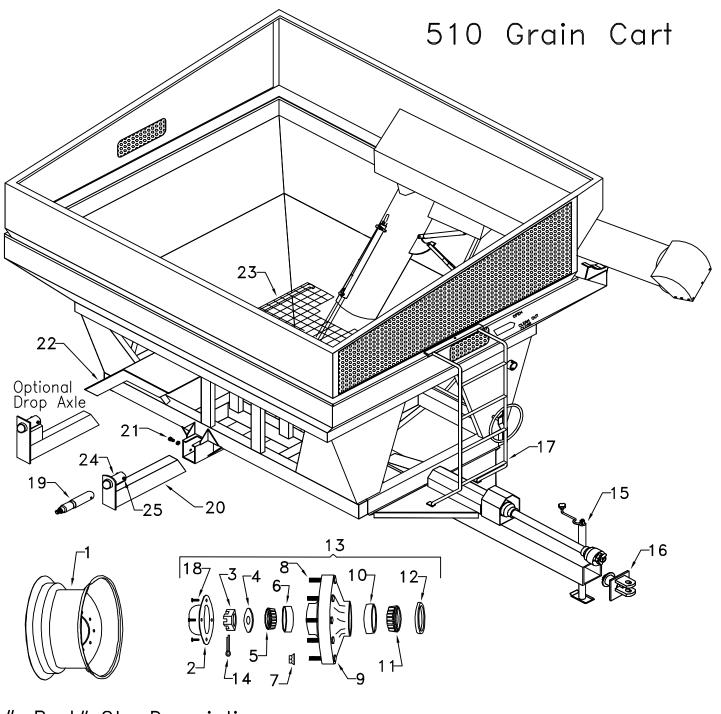
- > PTO Shaft
- ➤ U-joint at Gearbox
- ➤ Bearing at Top of Lower Auger
- ➤ Bearing at Top of Top Auger
- ➤ Auger Hinge
- ➤ Auger Over-Center Lock
- > Swivel Hitch

Approximate Tire Inflations:

18.4 x 26 ... 35 PSI 23.1 x 26 ... 33 PSI 24.5 x 32 ... 30 PSI 30.5 x 32 ... 30 PSI.

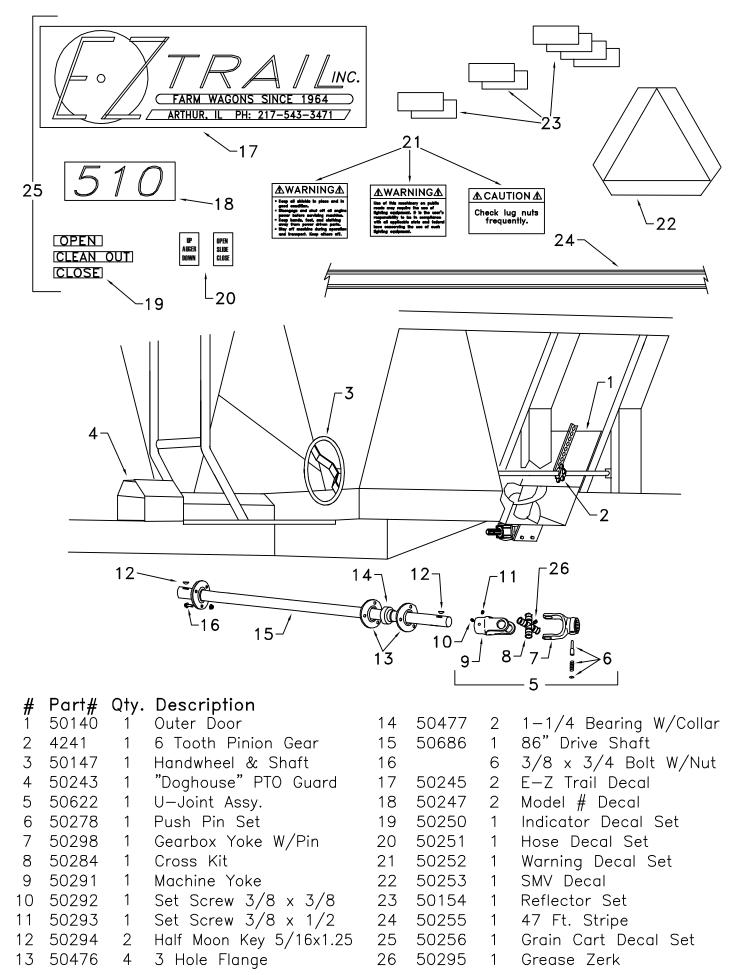
Before first use, then annually:

- > Check gearbox oil level, use 90W oil.
- Check wheel bearings for sufficient grease & proper adjustment.

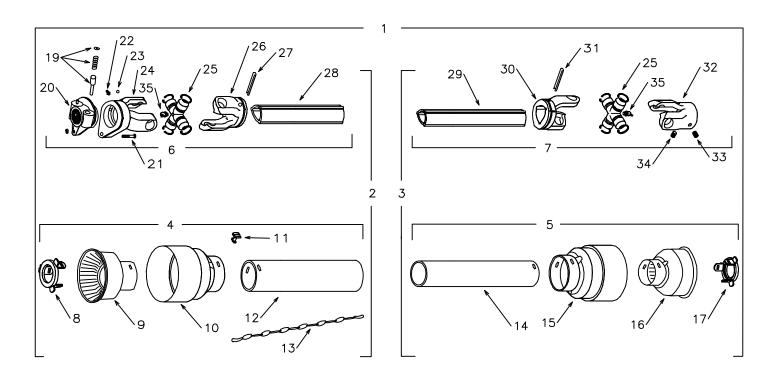


#	Part#	Qty.	Description				
1	50416	2	Wheel 26x16-18.4	13	50548	2	Hub Assembly
1	50420	2	Wheel 26x20-23.1	14	50458	1	Cotter Pin
1	50418	2	Wheel 38x18-20.8	15	50576	1	Jack Assembly
1	50417	2	Wheel 42x16-18.4	16	50509	1	Swivel Hitch Assembly
2	50455	2	Hub Cap	17	50441	1	Ladder
3	50452	2	Slotted Nut	18	50459	8	5/16 x 1/2 Bolt
4	50451	2	Washer	19	50551	2	Spindle, Bolt—In
5	50460	2	Outer Bearing	20	50566	2	Axle w/Sleeve
6	50453	2	Outer Race		50568	2	Drop Axle w/ Sleeve
7	50655	20	Wheel Nut	21	50386	6	3/4 x 2 Bolt w/Jam Nut
8	50542	20	Wheel Stud	22	50142	1	RH Fender
9	50549	2	Hub	22	50143	1	LH Fender
10	50540	2	Inner Race	23	50177	1	Safety Grate Assembly
11	50545	2	Inner Bearing	24	50560	2	Spindle Sleeve
12	50541	2	Grease Seal	25	50552	1	5/8 X 4-1/2 Bolt & Locknut

510 Decals & Driveshaft



PTO Parts for all Grain Carts

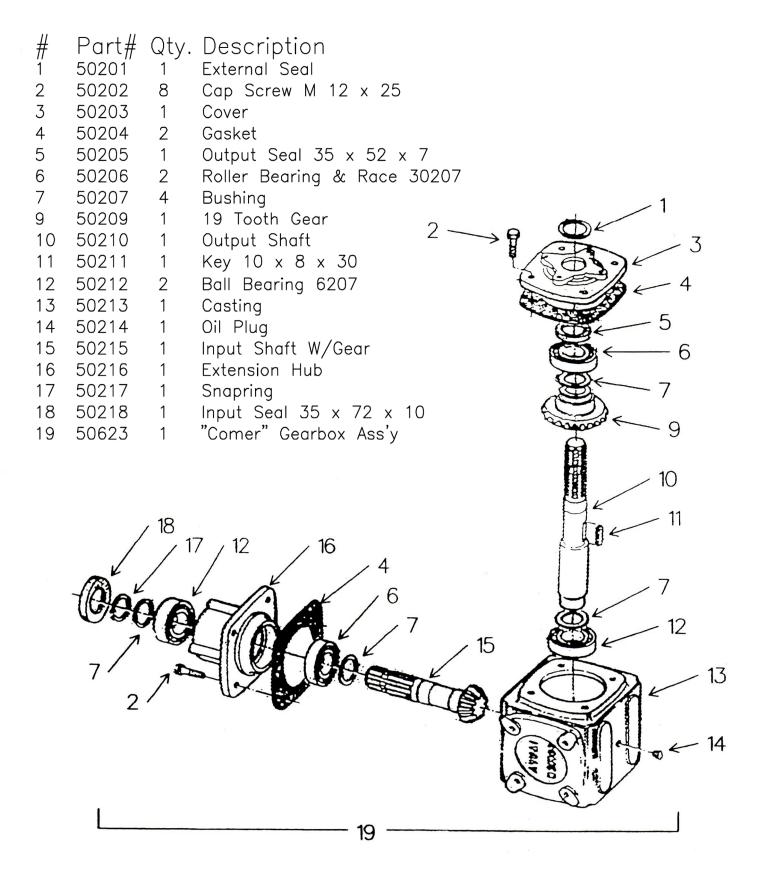


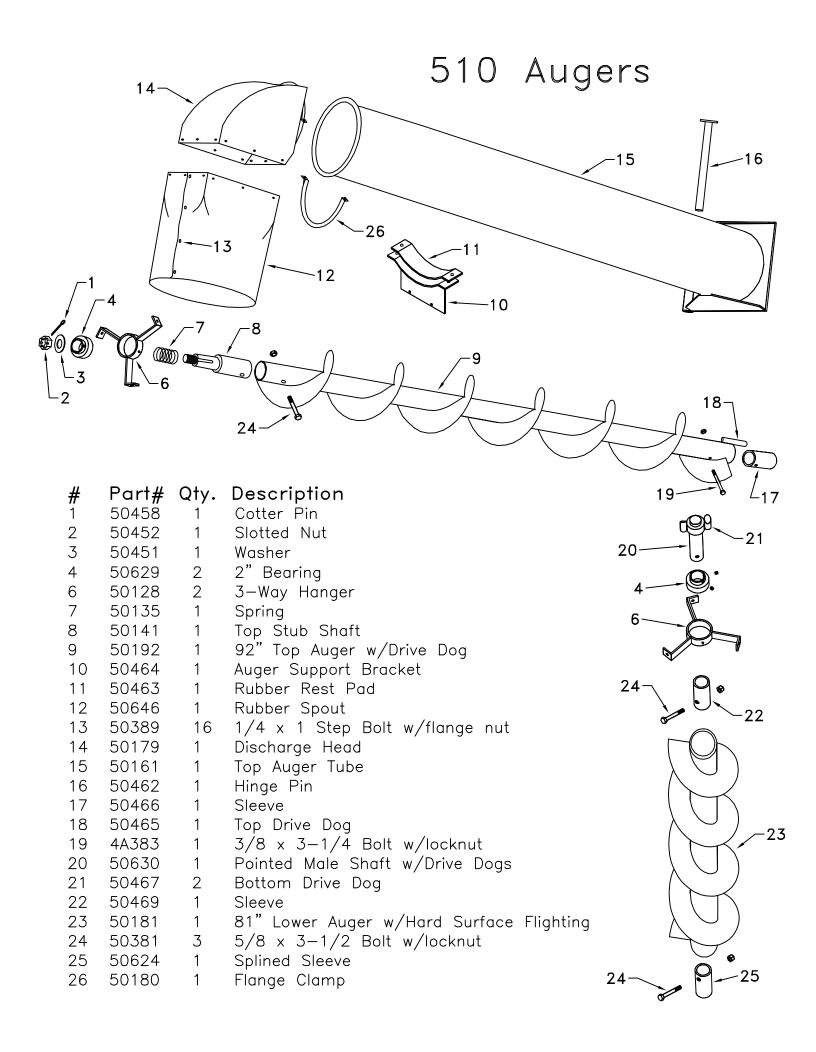
#	Part#		Description	#	Part#	•	Description
1	50615	1	1000 RPM, 1-3/8 PTO Assy.	19	50278	2	Push Pin Set
2	50616	1	Front 1/2 PTO	20	50279	1	Front Spline, W/Pins
3		1	Rear 1/2 PTO	21	50280	1	Shear Bolt w/locknut
4	50618	1	Front Shield Assy.	22	50281	1	Grease Zerk
5		1	Rear Shield Assy.	23	50282	1	Set of Balls (24)
6	50265	1	Front Shaft Assy.	24	50283	1	Tractor Yoke
7	50266	1	Rear Shaft Assy.	25	50284	2	Cross Kit
8	50267	1	Front Shield Retaining Collar	26	50285	1	Front Yoke
9	50268	1	Front Shield Inner Bell	27	50286	1	Roll Pin
10	50269	1	Front Shield Outer Bell	28	50287	1	Front Shaft
11	50270	6	Shield Retaining Clips	29	50288	1	Rear Shaft
12	50271	1	Front Shield Tube	30	50289	1	Rear Yoke
13	50272	2	Safety Chains	31	50290	1	Roll Pin
14	50273	1	Rear Shield Tube	32	50291	1	Machine Yoke
15	50274	1	Rear Shield Outer Bell	33	50292	1	Set Screw $3/8 \times 3/8$
16	50275	1	Rear Shield Inner Bell	34	50293	1	Set Screw $3/8 \times 1/2$
17	50276	1	Rear Shield Retaining Collar	35	50295	2	Grease Zerk, 45°, 8mm

Optional 1000 RPM, 1-3/4 PTO:

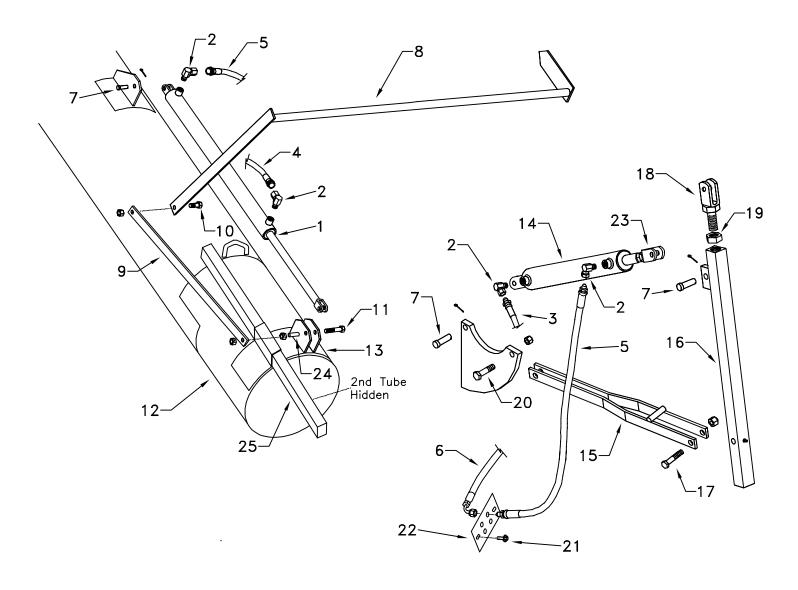
1000 RPM, 1-3/4 PTO Assy. 50315 Front 1/2 PTO 50316 Rear 1/2 PTO 3 50317 Front Shield Assy. 4 50318 5 50319 Rear Shield Assy. Front Shaft Assy. 6 50365 1 Rear Shaft Assy. 7 50366 1 25 Cross Kit 50384 2

Comer Gearbox



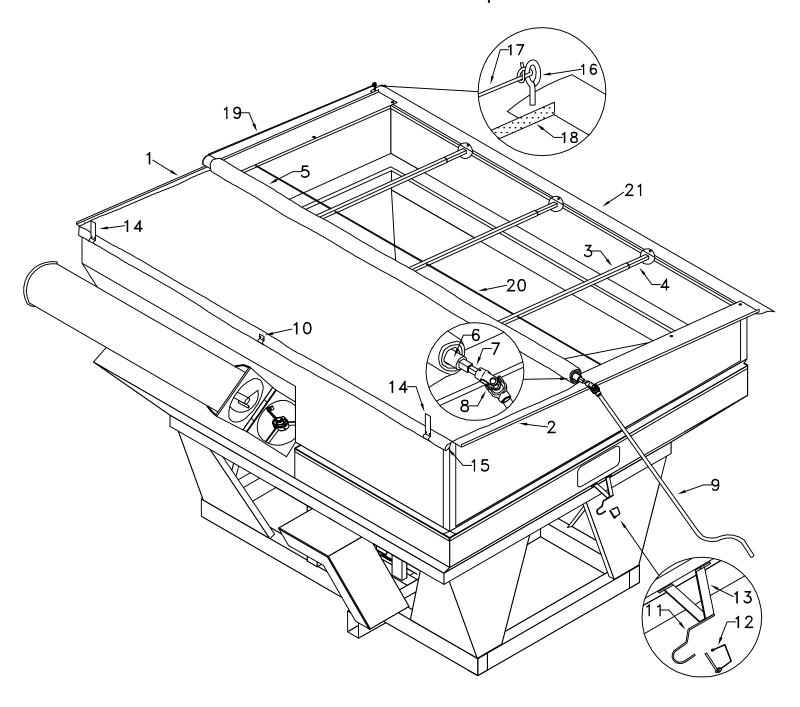


510 Cylinders & Hoses



#	Part#	Qty.	Description				
1	50127	1	2-1/2" x 27" Cylinder	13	50115	1	Cylinder Anchor Bracket Ass'y.
	50113	1	2-1/2" Cylinder Seal Kit	14	50612	1	2" x 12" Cylinder (Incl. #23)
2	50410	4	90 Deg. Fitting		50613	1	2" Cylinder Seal Kit
3	50103	1	20" Hydraulic Line	15	50606	1	Auger Lock Linkage Bars
4	50402	1	40" Hydraulic Line	16	50608	1	Auger Lock Square Bar
5	50401	2	32" Hydraulic Line	17		1	1/2 x 3 Bolt w/Lock Nut
6	50406	4	84" Hyd. Line, 90 Deg. Ends	18	50607	1	7/8" Clevis Bolt
	50604	4	112" Hyd. Line to Tractor	19	50601	1	7/8" Jam Nut
7	50412	4	Clevis Pin W/Cotter Pin	20		1	1/2 x 2.25 Bolt w/Lock Nut
8	50131	1	Indicator Assembly	21		4	3/8 x 3/4 Flange Bolt
9	50133	1	Indicator Linkage Arm	22	50411	2	Hose Plate
10		1	1/2 x 1 Bolt W/Lock Nut	23	50673	1	5/8" Clevis Bolt
11		1	1/2 x 4.5 Bolt w/Lock Nut	24	50116	1	Spacer
12	50114	1	Sliding Tube Door	25	50130	1	Slide Rail Set

510 Roll Tarp



#	Part#	Qty.	Description	11	50849	1	Crank Retainer
1	50865	1	Front Latch Plate	12	50851	1	Crank Retaining Pin
2	50875	1	Rear Shelf Plate	13	50848	1	Crank Retaining Bracket
3	50856	3	Long Cross Tube	14	50850	2	Straight Tarp Stop
4	50855	3	Short Cross Tube	15	50864	1	Fastening Pipe
5	50844	1	Tarp	16	4868	1	Eyebolt
6	50835	1	Roll Tube	17	4859	1	Bungee Cord
7	4839	1	Square Drive Tube	18	4860	1	Edge Trim
8	4840	1	U-Joint	19	4858	1	Roll Plug
9	4845	1	Crank	20	50882	1	Center Rod
10	4851	1	Tarp Clamp	21	50841	1	Latch Plate