Model PT-10, 12 & 16 FSS Fertilizer Spreader SERIAL #_____

WORK ORDER # _____

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Warranty Policy

A) **Standard Warranty:**

Chandler Equipment Company warrants that equipment manufactured by Chandler Equipment Company, under normal conditions of use and service, shall be free from material defects due to faulty manufacturing for the period listed below.

- a. Poultry Litter Spreaders and Conveyors Six (6) Months
- b. Fertilizer and Lime Pull Type Spreader Six (6) Months
- c. Fertilizer Tenders (Trailer or Truck Mounted) Six (6) Months
- d. Fertilizer and Lime Chassis Mounted Spreaders One (1) Year

This warranty period is from the date of delivery to the original owner.

(Warranty period is on equipment built after July 1, 2012)

B) <u>Warranty Approval:</u>

- a. Any and All warranty claims must be approved in writing by Chandler Equipment Company prior to any work being done.
- b. <u>ANY WORK DONE WITHOUT PRIOR WRITTEN APPROVAL WILL NOT BE</u> <u>COVERED UNDER WARRANTY AND THE CUSTOMER / DEALER WILL BE</u> <u>RESPONSIBLE FOR ALL COST.</u>

C) <u>Warranty Claim Forms: (Dealer Only)</u>

- a. Warranty claim form / forms will be supplied to Dealer upon request.
- b. Warranty claim forms are available in 2 part paper form or in an electronic format.
- c. All warranty claims must include serial number, date of purchase, customer name and date of sale to original owner. (See attached warranty claim instructions for guidelines on filling out warranty claim form)
- d. Improperly filed or misleading information on warranty claims shall result in warranty claim being denied.
- e. <u>ALL WARRANTY CALIMS MUST BE FAXED TO (770) 535-1265.</u>

D) Labor and Repair Cost: (Dealers Only)

- a. Labor for any repairs must be approved prior to any work being done.
- b. Labor rate (per hour) will be determined by Chandler Equipment Company, See Chandler Labor Rate List.
- c. Also Chandler Equipment Company retains the right to adjust any and all warranty claims.

E) **Dealer Responsibility:**

- a. Dealer shall be first line in all communications with the customer.
- b. Dealer shall also maintain good and open communications between the customer and Chandler Equipment in order to resolve warranty issues.

- c. Dealer shall be responsible for informing the customer of operating procedures, safety precautions and normal maintenance to help avoid any warranty issues.
- d. Promptly inform Chandler Equipment of any possible warranty issues.
- e. Dealer is responsible for making every effort to resolve warranty issues in a timely manner.
- f. Notify Chandler Equipment on any possible non-warranty issues, such as any modification made to equipment.

F) Original Chandler Genuine Parts:

a. Chandler Equipment Company will only warranty equipment that uses Chandler Genuine Parts. Any equipment that is sold by a dealer with parts other than Original Chandler Genuine parts shall Void Any and All warranties

G) <u>Replacement Parts Shipping:</u>

- a. Chandler Equipment Company shall send Chandler Genuine Parts for warranty replacement. Chandler Equipment shall NOT warranty any part or parts replaced by the Customer/Dealer that are not Chandler Genuine Parts.
- b. Cost of any part or parts that are replaced by the Customer / Dealer that are not Chandler Genuine Parts shall be the sole responsibility of the Customer / Dealer.
 All replacement parts covered under warranty will be shipped via regular UPS. The cost of any parts shipped UPS-Next Day Air will be the sole responsibility of the Customer/Dealer.

H) Parts Returns:

- a. All parts replaced under warranty will be returned to Chandler Equipment Company within 20 days of replacement for warranty evaluation. All parts returned for warranty evaluation must be in its original state free of modifications. Any modifications will result in the warranty claim being denied and the part or parts returned back to the customer/dealer.
- b. Any hydraulic components returned must be assembled (in original state) and with the ports plugged to prevent any contamination. Any hydraulic component that has been disassembled will VOID the warranty claim and the part or parts returned back to the customer/dealer.
- c. All Returned Parts for warranty evaluation must be clearly tagged with the following information.
 - I. RMA number
 - II. Customer or Dealer Name, address, phone number and contact person
 - III. Equipment serial number
 - IV. Complete description of problem

I) Misuse or Improper Installation:

- a. Any equipment, parts, or components that have been damaged by improper installation or misuse will **<u>NOT</u>** be covered under this warranty.
- b. Chandler Equipment accepts no responsibility or liability of any kind due to improper installation of equipment or parts on any product manufactured by Chandler Equipment Company. This includes, but is not limited to, any damages to personal property, crops, or any other equipment.

J) Incomplete Equipment and Dealer Add-Ons:

- a. Chandler Equipment does not warrant any equipment sold **<u>INCOMPLETE</u>**. This includes (but is not limited to) axles, tires, any hydraulic components or paint.
- b. Any Non Genuine Chandler Parts that are installed as aftermarket add-ons by anyone not approved in writing by Chandler Equipment Company shall <u>VOID ALL WARRANTIES.</u>
- c. Chandler Equipment Company accepts no responsibility, nor shall warrant any equipment or any component that is damaged due to any type Control System not sold and installed by Chandler Equipment Company.

K) Items Not Covered Under this Warranty:

- a. Any equipment that has been modified from its original state.
- b. Any equipment used for any other purpose that what it was originally designed for.
- c. Any travel time, cleaning of equipment, unloading of material, or towing.
- d. Any cost of materials that have been applied improperly due to the lack of customer / dealer not following proper operating instructions.

Fertilizer and Lime Spreader Safety

SAFETY LABELS

Your safety and the safety of those around you are very important to us here at Chandler Equipment Co. Therefore we have provided important safety labels throughout this manual.

A safety label alerts you of potential hazards that can injure you or others. Each safety label is preceded by a safety alert symbol \triangle and either the words DANGER, WARNING, or CAUTION.



Failure to follow instructions WILL Result in DEATH or SERIOUS INJURY



Failure to follow instructions CAN result In DEATH or SERIOUS INJURY

CAUTION

Failure to follow instructions CAN result In INJURY

Safety Precautions

- 1) Be sure all guards or other safety devices, and decals are in place and functioning properly.
- 2) Stay away from moving parts when spreader is in operation.
- 3) Check lug nuts daily.
- 4) Maintain proper tire pressure, according tire manufacturers specifications.
- 5) If spreader becomes clogged, turn off PTO/Hydraulics before entering hopper or cleaning the spreader.
- 6) Be sure to fully empty hopper before transporting.
- 7) Never exceed 25 mph (LOADED) on the highway.

Safety Decals



Avoid Injury.

Read and understand owner's manual before operating this machine.

WARNING!

- DO NOT ADJUST UNTIL SPINNERS STOP MOVING
- STAY OUT OF BOX WHILE CONVEYOR IS IN MOTION
- DO NOT RIDE ON SPREADER WHILE
 VEHICLE IS IN MOTION
- STAY CLEAR OF SPINNERS WHILE
 SPINNERS ARE IN MOTION

THINK SAFETY!



PTO SAFETY DECAL





LUG NUT DECAL

MAXIMUM LOADED SPEED

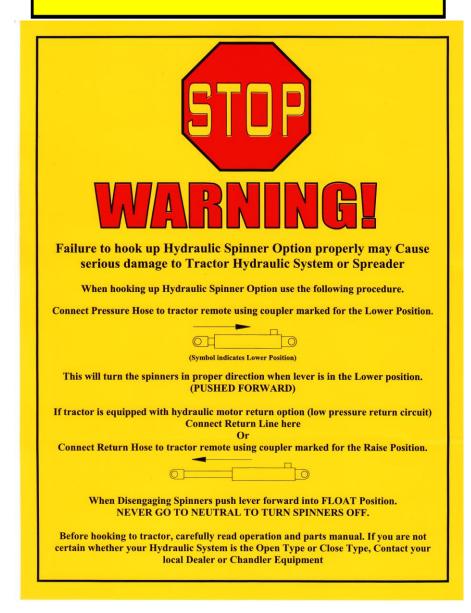
WARNING! DO NOT EXCEED 25 MPH

HYDRAULIC SYSTEM DECAL

WARNING

Failure to hookup Hydraulic Spinner Option properly may cause serious damage toTractor or Spreader

Before hooking to tractor carefully read the operations and parts manual. If you are not certain of which system you have contact Chandler Equipment or your local dealer



ROTATING CHAIN WARNING



ROTATING SPINNERS WARNING



PTO Shaft Adjustment And Maintenance



IMPORTANT

The following section contains important information regarding the safety and operation of PTO drive equipment. As our spreaders are sold throughout the world we install a standard length PTO shaft to accommodate multiple types and brands of tractors. Therefore, modification (i.e. shortening) of the shaft may be required to meet the specific needs of your tractor. Follow the guidelines set forth in this manual to ensure proper and safe operation of your spreader.

HOW TO SHORTEN THE PTO DRIVE SHAFT

- 1) Attach the implement to the draw bar. Align the implement with the tractor on level ground this will be the position at which the driveline is at its shortest length. If the driveline will fit the tractor and implement at this point, without bottoming out, no further action is necessary.
- 2) If the driveline will not fit without bottoming out, separate the driveline into two half shafts. Mount the tractor half on the PTO, and mount the implement half on the power input connection (PIC).
- 3) Hold the two halves side-by-side. Mark the outer shield tube where it overlaps the end of the shield cone on the implement half shaft, plus 1/4".
- 4) Disassemble the shields from the half shafts.
- 5) Cut the outer shield tube at the mark made in (c). Using the cut piece as a guide, cut an equal amount from the inner shield tube, the outer drive tube, and the inner drive tube.
- 6) Using a half round or rat tailed file, carefully deburr the cut end of the drive tubes. Shake and/or wipe metal chips / filings from the drive tubes.
- 7) Coat the inner drive tube with #2 grease along its entire length.
- 8) Reassemble the shields onto each half shaft. Slide the inner half shaft into the outer.

- 9) Attach the driveline to the tractor PTO and implement PIC. Make sure each end is firmly attached to its respective shaft.
- 10) Make sure driveline does not bottom out when the implement is fully raised, and that at least 1/3 of the tube is engaged when the implement is at its lowest height.

LUBRICATION

- Always wear adequate safety equipment when performing any maintenance
- LUBRICATION OF THE UNIVERISAL JOINT
 - Rotate the shielding until opening the access hole. Lubricate, and close the hole by rotating the shielding.
- LUBRICATION OF THE 650 CV JOINT
 - \circ Rotate the shell to expose the grease fitting and inject grease.
- LUBRICATION OF THE TELESCOPING TUBES
 - If grease fittings are not provided, separate the two halves of the driveline and manually lubricate the telescoping tubes.
- Check that all components are in good condition and properly lubricated before using the driveline. Clean and re-lubricate the driveline before storage at the end of the season.
 - Lubrication the 650 type 70° CV joint every 8 hours.
 - Lubricate all other components every 50 hours.
 - Pump grease into the crosses until it purges from the bearing caps.
 - Inject grease gradually and avoid pumping the grease gun violently with resulting high delivery pressure.
 - Use NLGI grade 2 grease.
 - Before storage at the end of the season remove any grease that has accumulated inside the CV joint shield.
- Replace worn or damaged parts with genuine Bondioli & Pavesi spare parts.
 - \circ Do not modify or tamper with any part of the driveline.
 - For any operations not explained in this manual, consult your implement dealer or manufacturer, or your local Bondioli & Pavesi representative.

Section 1

Basic Information PT-10 & 12 FSS



Fertilizer @ 65 #

	PT-10 FSS	PT-12 FSS
Hopper Capacity	154 Cubic Ft.	185 Cubic Ft.
Payload	10,000 lbs.	12,000 lbs.

▲ CAUTION PT-10 FSS - 5 TON MAXIMUM CAPACITY

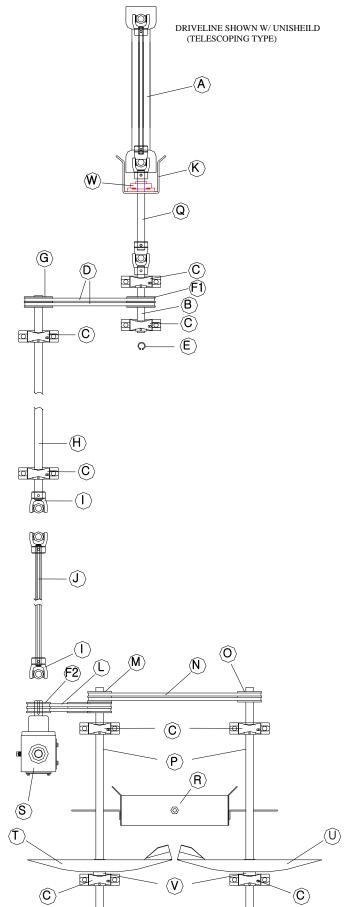
PT-12 FSS - 6 TON MAXIMUM CAPACITY

DO NOT OVERLOAD

Section 2

PTO Drive Spinners

PTO DRIVEN SPINNERS BASIC PARTS ILLUSTRATION



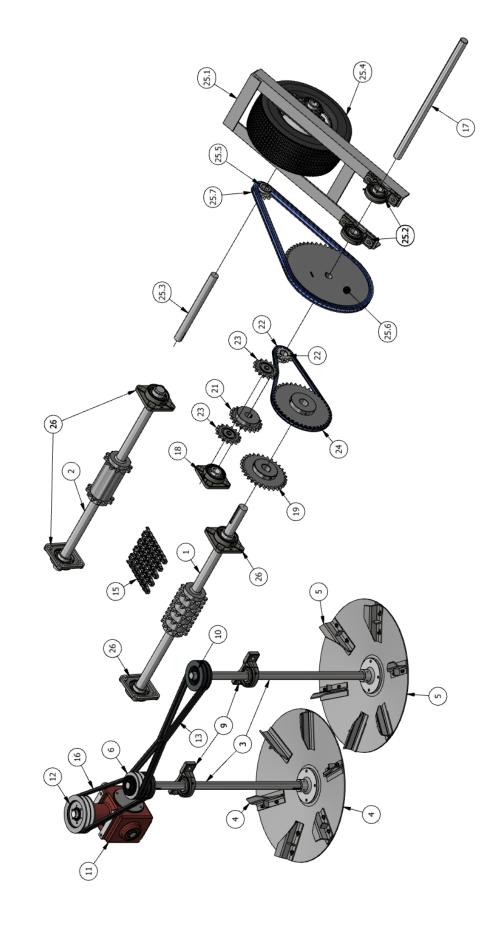
PTO Drive Spinners Parts List

Ref.	Part Number	Description
A)	200-2-018A	48" PTO Telescoping Shaft
B)	300-FL-126	11" Shaft for Pulley
C)	UPC-207-20	1-1/4" Pillow Block Bearing
D)	1100-1-107	B-67 V-Belts (540 PTO)
*	1100-1-111	B-69 V-Belts (1000 PTO)
E)	PTF-13	Retaining Ring
F1)	1100-2-202	2 B - 5.6 SDS Pulley (540 PTO)
*	1100-2-215	1-1/4" SDS Bushing
*	1100-2-201	2 B - 4.4 SH Pulley (1000 PTO)
*	1100-2-214	1-1/4" SH Bushing
F2)	1100-2-202	2 B - 5.6 SDS Pulley (540 PTO)
*	1100-2-215	1-1/4" SDS Bushing
*	1100-2-197	2 B - 4.8 SDS Pulley (1000 PTO Top of Gear Box)
*	1100-2-215	1-1/4" SDS Bushing
G)	1100-2-204	2 B - 8.6 SK Pulley (540 PTO)
*	1100-2-216	1-1/4" SK Bushing
*	1100-2-199	2 B - 11.0 SK Pulley (1000 PTO)
*	1100-2-216	1-1/4" SK Bushing
H)	200-2-023	PTO Drive Line 1-1/4" Shaft (Specify Length)
I)	200-2-002	Universal Joint (7/8" Hex x 1-1/4" Round)
J)	200-2-015	7/8" Hex Shaft (Specify Length)
К)	300-C-026	Cradle Bonnet
*	300-C-027	Cradle Pin
L)	1100-1-102	B-39 V-Belts (540 PTO)
M)	1100-2-203	4 B - 4.4 Pulley
*	1100-2-213	1-1/4" SD Bushing
N)	1100-1-105	B-62 V-Belts (Standard Set-up)
O)	1100-2-201	2 B - 4.4 SH Pulley (Standard Set-up)
*	1100-2-214	1-1/4" SH Bushing
P)	300-1-207	PTO Drive Fan Shaft – 33" Long
Q)	300-FL-125	Cradle Shaft – 23-1/2" x 1-1/4"
R)	300-FT-010	Flow Divider S.S. (Specify Floor Width)
S)	PTF-71-2RZ	PTF Spinner Gear Case
T)	300-FL-101-L	24" Spinner Disc (Only) 7 Ga. Mild Steel (L.H.)
**	300-FL-102-L	24" Spinner Disc (Only) S.S. (L.H.)
U)	300-FL-101-R	24" Spinner Disc (Only) 7 Ga. Mild Steel (R.H.)

**	300-FL-102-R	24" Spinner Disc (Only) S.S. (R.H.)

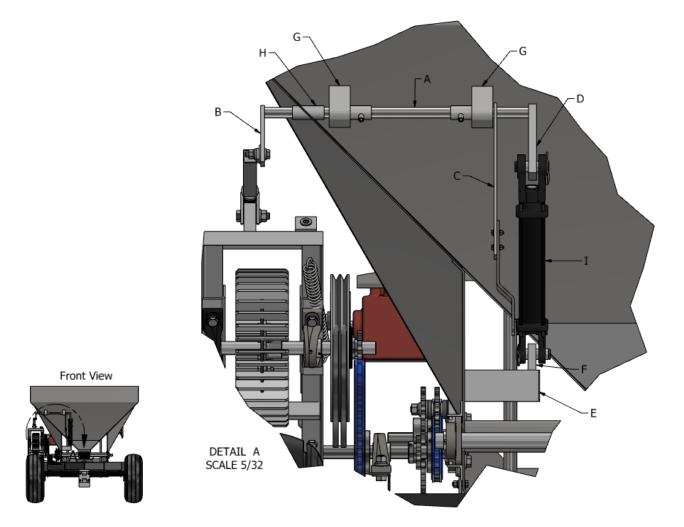
- V) 300-1-208 Spacer Lock Collar for 1-1/4" Shaft
- W) UCF-207-20 1-1/4" 4 Bolt Flange Bearing
- * 300-1-126 Front Belt Guard (540 PTO)
- * 300-1-126 Front Belt Guard (1000 PTO)
- * 300-1-127 Rear Belt Guard
- * Not Shown
- ** Optional

Ground Wheel Drive Train Basic Parts Illustration



Ground Wheel Drive Train Basic Parts Illustration

		PARTS LIST	
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	HWC-R-0834 Rear roller	Rear Roller
2	1	PTFSS-F-0834 Front roller	Front Roller
m	2	300-1-207	37in Fan Shaft
4	1	300-FL-101-L	24" Spinner Disc (LH)
5	1	300-FL-101-R	24" Spinner Disc (RH)
9	1	1100-2-203	4B-4.4 SD Pulley
6	4	UCP-207-20	1 1/4" 2 BOLT FLANGE BEARING
10	1	1100-2-201	2 B-4.4-SD PULLEY
11	1	PTF-71-2RZ-FP	SPINNER GEAR CASE
12	1	SB-5.6 SDS	2-B-5.6-SDS PULLEY
13	2	100-1-105	B-62 V-belt
15	1	500-3-305	8" Mesh Chain
16	2	1100-1-102	B-39 V-belt
17	1	300-FT-038	GW SHAFT - 9 PT
18	1	UCF-207-20	1 1/4" 4 BOLT FLANGE BEARING
19	1	700-1-109	60 BS 30 X 1 1/2" SPROCKET
21	1	700-1-106	60 BS 20 X 1 1/4" SPROCKET
22	1	700-1-103	60 BS 11 X 1 1/4" SPROCKET
23	2	700-1-121	#60 Idler Sprocket
24	1	500-1-101 (Black Chain) 500-1-102 (SS Chain) #60 Chain	#60 Chain
25.1	1	Full press wheel frame	
25.2	4	UCP-207-20	1 1/4" 2 BOLT FLANGE BEARING
25.3	1	300-FT-038A	14" X 1-1/4" Shaft
25.4	1	800-1-108 (16X6.5-8 Rubber Tire & Wheel)	300-1-117 (Metal Press Wheel-16")
25.5	1	700-1-103	60 BS 11 X 1 1/4" SPROCKET
25.6	1	700-1-115	60 BS 60 X 1 1/4" SPROCKET
25.7	1	500-1-101 Black Chain) 500-1-102 (SS Chain) #60 Chain	#60 Chain
26	4	UCF-208-24	1 1/2" 4 Bolt Flange Bearing



Hydraulic Cylinder Engagement Assembly

Hydraulic Cylinder Engagement – Parts List

Ref.	Part Number	Description
A)	300-1-135	1" S.S. Rod – 25" Long
B)	300-1-136	Connecting Rod
C)	300-1-137	Manual Engagement Arm
D)	300-1-138	Top Cylinder Mount
E)	300-1-139	Lower Cylinder Brace
F)	300-1-140	Lower Cylinder Mount
G)	300-1-141	Engagement Rod Hanger
H)	300-1-142	Engagement Rod Pipe
I)	400-1-300	Hydraulic Cylinder – 8"

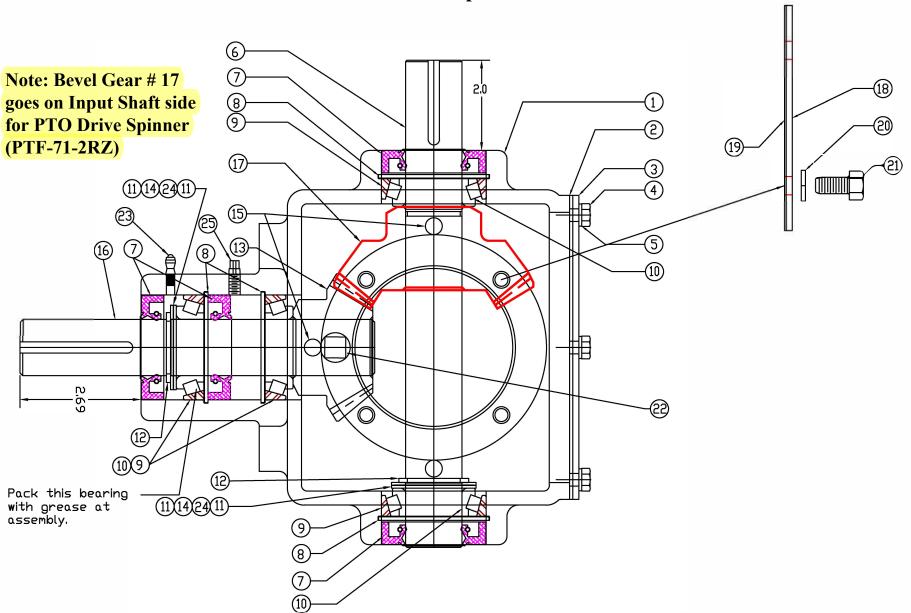
Spring Loaded Activation Arm



		PARTS LIST	
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	300-1-130	Welded Arm Asy.
2	1	300-1-131	Plate pivot mount asy.
6	3	300-1-132	1" Locking collar
7	1	300-1-133	Compress Spring

PTF-71-2 RZ PTO Drive Spinner Gear Case

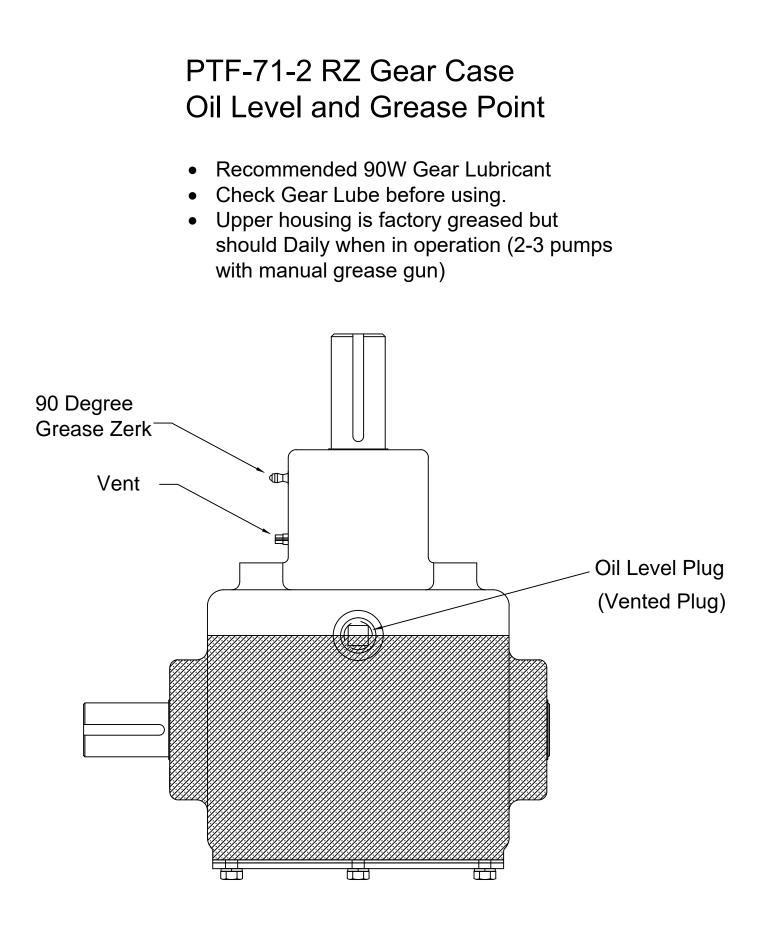
Assembly and Parts List



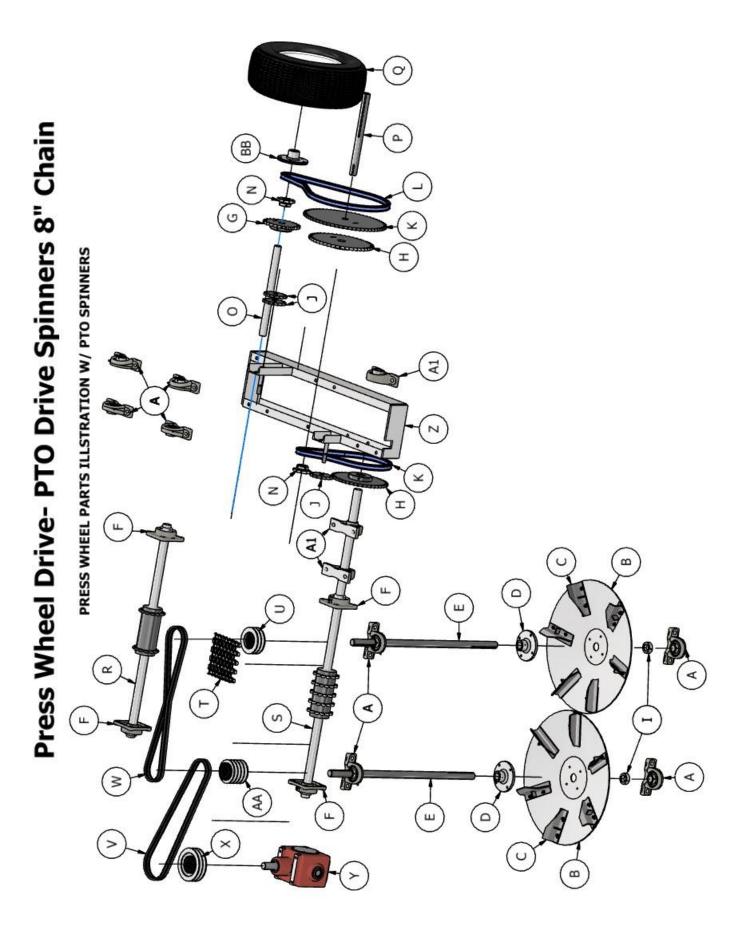
PTF-71-2RZ – Spinner Gear Case

PTF-71-2RZ – PTO Drive Spinner Gear Case - Parts List

Ref.	Part Number	Description	Qty.
1	PTF-1AZ	Housing	1
2	PTF-3	Gasket	1
3	PTF-2A	Cover	1
4	PTF-4	Cap screw	6
5	PTF-5	Lock Washer	6
6	PTF-6	Shaft	1
7	PTF-11	Oil Seal	4
8	PTF-12	Retaining Ring	4
9	PTF-10R	Race Bearing	4
10	PTF-10C	Cone Bearing	4
11	PTF-16	Thrust Washer	4
12	PTF-13	Retaining Ring	2
13	PTF-8P	Pinion	1
14	PTF-18A	Shim (0.005)	2
15	PTF-9	Pin	2
16	PTF-7A	Shaft	1
17	PTF-8B	Gear	1
18	PTF-2B	Cover	1
19	PTF-19B	Gasket	1
20	PTF-17	Lock Washer	4
21	PTF-15A	Cap screw	4
22	PTF-14	Pipe Plug	1
23	PTF-22	Zerk	1
24	PTF-18B	Shim (0.010)	2
25	TC-15	Vent Plug	1



F/L Press Wheel Assembly and Parts List

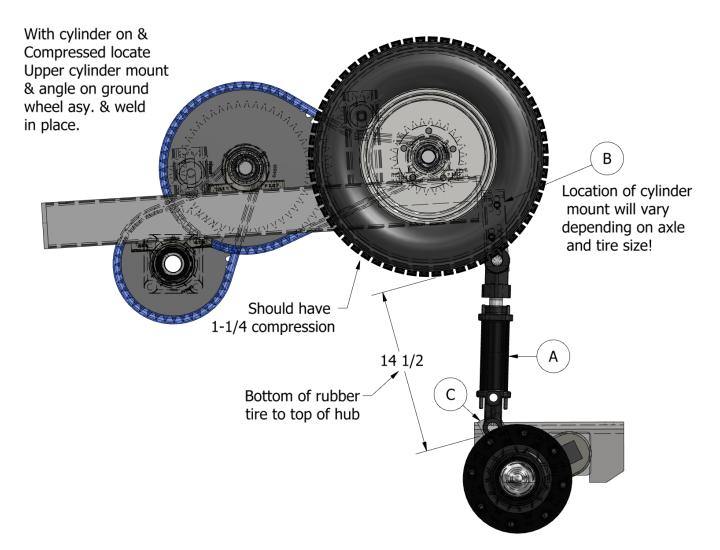


Ref.	Part Number	Description
Α	UCP-207-20	1-1/4" Pillow Block Bearing
A1	UCP-208-24	1-1/2" Pillow Block Bearing
В	300-FL-101-L	24" Spinner Disc (Only) 7 Ga. Mild Steel (L.H.)
**	300-FL-102-L	24" Spinner Disc (Only) S.S. (L.H.)
**	300-FL-101-R	24" Spinner Disc (Only) 7 Ga. Mild Steel (R.H.)
**	300-FL-102-R	24" Spinner Disc (Only) S.S. (R.H.)
С	300-FL-107-L	F/L Spinner Blade Mild Steel (L.H.)
**	300-FL-108-L	F/L Spinner Blade Heat Treated (L.H.)
**	300-FL-109-L	F/L Spinner Blade S.S. (L.H.)
**	300-FL-107-R	F/L Spinner Blade Mild Steel (R.H.)
**	300-FL-108-R	F/L Spinner Blade Heat Treated (R.H)
**	300-FL-109-R	F/L Spinner Blade S.S. (R.H.)
D	300-FL-112	4 Bolt Fan Hub
*	300-FL-112A	4 Bolt Fan Hub Stainless Steel
Е	300-1-207	Fan Shaft – 33"
F	UCF-208-24	1-1/2" 4 Bolt Flange Bearing
G	700-1-108	60 BS 26 X 1-1/4" Sprocket
н	700-1-111	60 BS 40 X 1-1/2" Sprocket
I	300-1-208	Fan Shaft Lock Collar
J	700-1-121	#60 Idler Sprockets
К	500-1-101	#60 Chain
**	500-1-102	#60 Chain Stainless Steel
L	700-1-115	60 BS 60 X 1-1/4" Sprocket
Μ	700-1-112	60 BS 45 X 1-1/4" Sprocket
Ν	700-1-103	60 BS 11 X 1-1/4" Sprocket
Ο	300-FT-002C	L-1 1/4" GW Shaft – 17"
Р	300-FT-002A	S-1 1/4" GW Shaft – 15"
Q	800-1-107	20.5 x 8 x 10 Tire & Wheel
R	PTFSS-F-0834	Front Roller Assembly (8" Chain)
S	PTWC-8-565	Rear Roller Assemble (8" Chain)
т	500-3-305	8" S.S. Mesh Chain
U	1100-2-201	2 B - 4.4 SH Pulley
*	1100-2-214	SH – 1-1/4" Bushing
V	1100-2-202	2 B - 5.6 SDS Pulley
*	1100-2-215	SDS – 1-1/4" Bushing
W	1100-1-105	B-62 V-Belt
Х	1100-1-102	B-39 V-Belt
Y	PTF-71-2RZ	PTF Spinner Gear Case
Z	300-FT-005	Ground Wheel Frame (Standard or Narrow Track)
AA	1100-2-203	4 B - 4.4 SD Pulley
*	1100-2-213	SD – 1-1/4" Bushing
BB	300-FT-004	Ground Wheel Hub 5 Bolt
* Not Sł	iown ** O	ptional

* Not Shown

Hydraulic Cylinder Engagement assembly

(View shown is for 16.5 tires)



Hydraulic Cylinder Engagement - Parts List

Ref.	Part Number	Description	
Α.	400-1-305	Hydraulic Cylinder-4"	
В.	300-FT-048	Upper Cylinder Mount 6-5/8"	-14L or 16.5 Tires
**	300-FT-049	Upper Cylinder Mount 10"	-19L or 21.5 Tires
**	300-FT-050	Lower Cylinder Mount 8"	-14L or 16.5 Tires
C.	300-FT-051	Lower Cylinder Mount 4"	-16.5L or 16.1 Tires
**	300-FT-052	Lower Cylinder Mount 8"(bent)	-19L or 16.1 Tires
**	300-FT-053	Lower Cylinder Mount 12"(bent)	-21.5L or 16.1 Tires

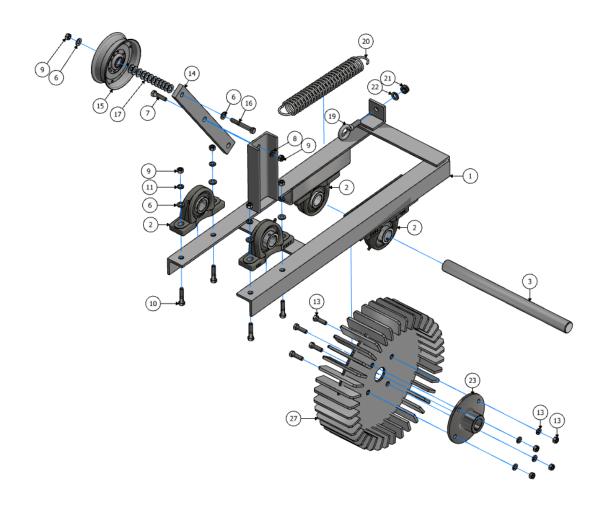
** Option

Section 3

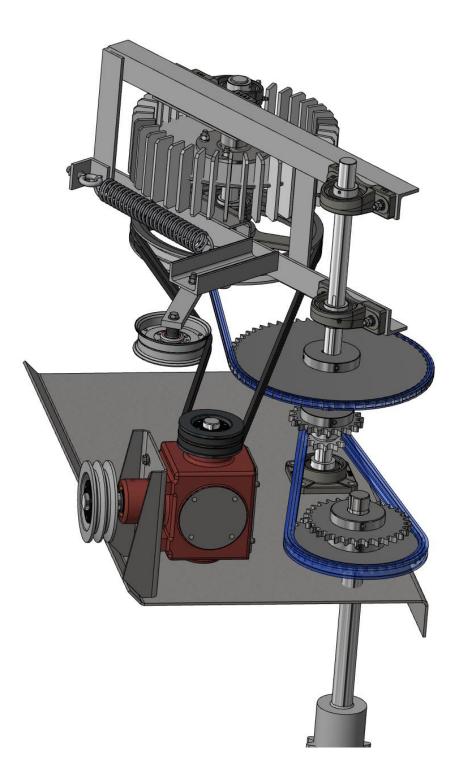
Full Press Wheel Drive Assembly

Full Pres Wheel Exploded View

	PARTS LIST							
ITEM	QTY	PART NUMBER	DESCRIPTION					
1	1	Full press wheel frame						
2	4	UCP-207-20	1 1/4" 2 BOLT FLANGE BEARING					
3	1	300-FT-002	LOWER G/W SHAFT 1 1/4 X 16 1/2					
6	19	ASTM F436 - 3/8	Washer A					
7	2	ANSI/ASME B18.2.1 - 3/8-16 UNC - 1.5	Hex Bolt - UNC (Regular Thread - Inch)					
8	1	ANSI B18.21.1 - 0.375	Helical Spring Lock Washers					
9	10	ANSI B18.2.2 - 3/8 - 16	Hex Nuts (Inch Series) Hex Nut					
10	7	ANSI/ASME B18.2.1 - 3/8-16 UNC - 1.75	Hex Bolt - UNC (Regular Thread - Inch)					
11	7	ASME B18.21.1 - 3/8	Regular Helical Spring Lock Washers(Inch Series)					
13	1	125-214-25	3/8" Bolt, 3/8 Nut, 3/8" Lock Washer					
14	1	.5 X 14.25 flat bar tensioner pivot						
15	1	1100-2-212	F-1-4026-B IDLER PULLEY					
16	1	ANSI/ASME B18.2.1 - 3/8-16 UNC - 2.75	Hex Bolt - UNC (Regular Thread - Inch)					
17	12	ASTM F436 - 7/16	Washer A					
19	1	Eye Hook For Spring						
20	1	300-FT-022	Hood Spring (GM)					
21	1	ANSI B18.2.2 - 1/2 - 13	Hex Nuts (Inch Series) Hex Nut					
22	1	ASME B18.21.1 - 1/2	Regular Helical Spring Lock Washers(Inch Series)					
23	1	300-FL-112	4 BOLT FAN HUB, SPINNER					
27	1	300-1-117	16.5 Metal Press Wheel					

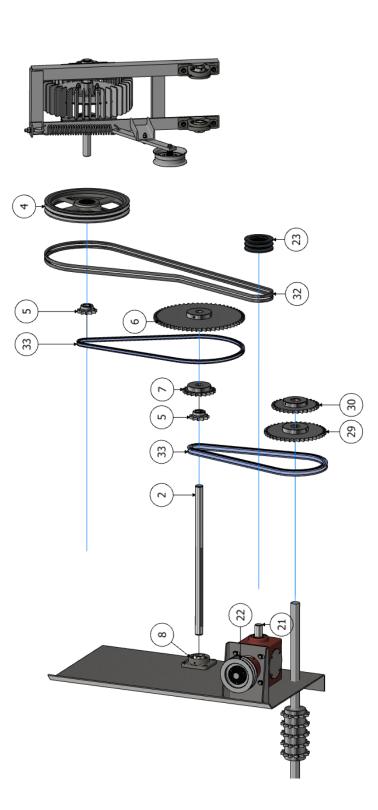


Full Press Wheel Asy.

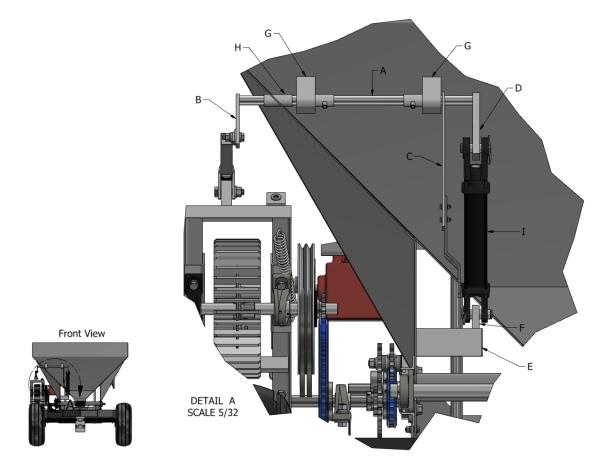


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PARTS LIST	DESCRIPTION	GW SHAFT - 9 PT	2B 13.6 Pully	60 BS 11 X 1 1/4" SPROCKET	60 BS 60 X 1 1/4" SPROCKET	60 BS 20 X 1 1/4" SPROCKET	1 1/4" 4 BOLT FLANGE BEARING	SPINNER GEAR CASE	2-B-5.6-SDS PULLEY	2 B-4.4-SD PULLEY	60 BS 40 X 1 1/2" SPROCKET	60 BS 30 X 1 1/2" SPROCKET	. Tires) V Belt	hain) #60 Chain Black or ss
	PART NUMBER	300-FT-038	1100-2-205	700-1-103	700-1-115	700-1-106	UCF-207-20	PTF-71-2RZ-FP	1100-2-202	1100-2-201	700-1-111	700-1-109	Belt, B97 (For 12.5 Tires) Belt B,96 (For 14L Tires) V Belt	500-1-101 (black Chain) 500-1-102 (SS Chain) #60 Chain Black or ss
	QTY	1	1	2	1	1	1	1	1	1	1	1	2	2
	ITEM	2	4	5	9	7	8	21	22	23	29	30	32	33



Hydraulic Cylinder Engagement Assembly

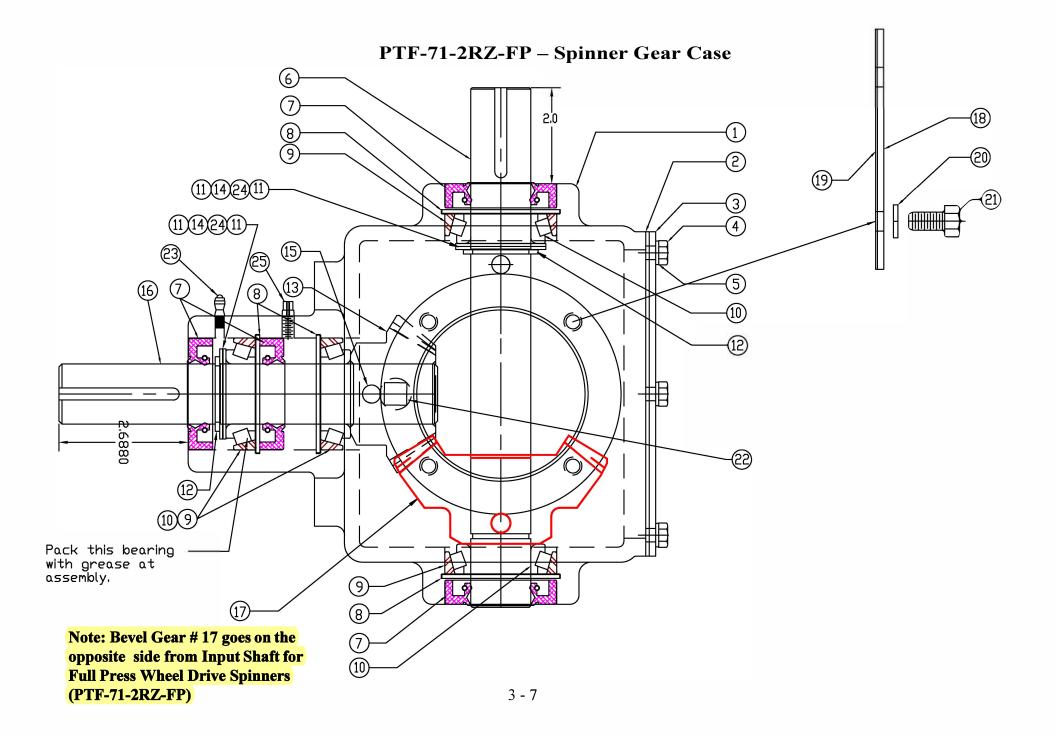


Hydraulic Cylinder Engagement – Parts List

Ref.	Part Number	Description
A)	300-1-135	1" S.S. Rod – 25" Long
B)	300-1-136	Connecting Rod
C)	300-1-137	Manual Engagement Arm
D)	300-1-138	Top Cylinder Mount
E)	300-1-139	Lower Cylinder Brace
F)	300-1-140	Lower Cylinder Mount
G)	300-1-141	Engagement Rod Hanger
H)	300-1-142	Engagement Rod Pipe
I)	400-1-300	Hydraulic Cylinder – 8"

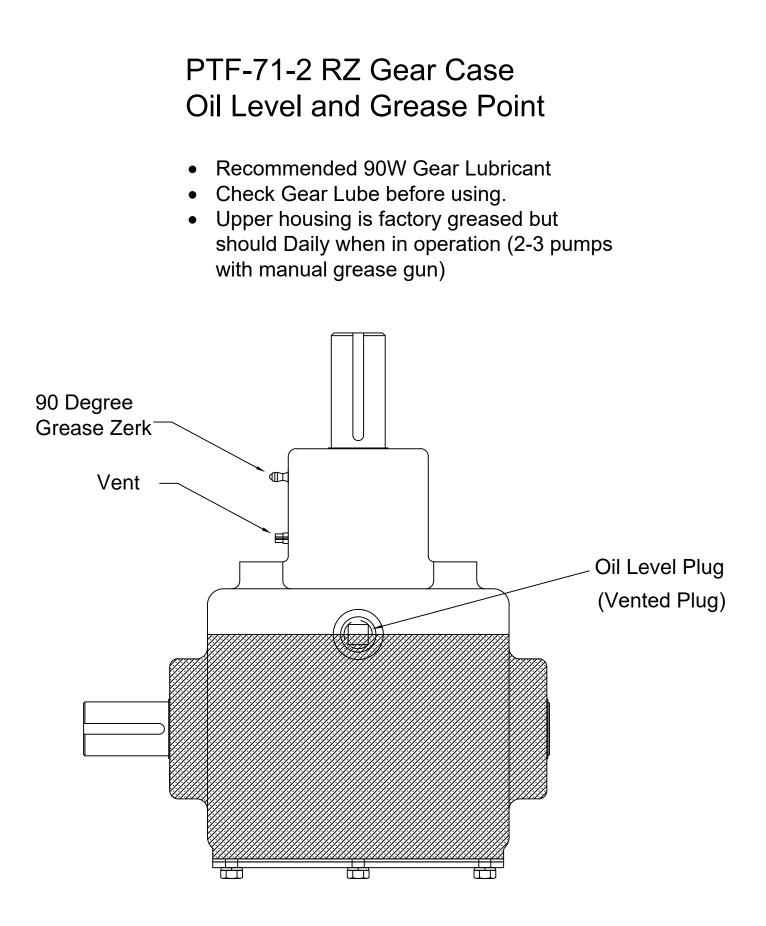
PTF-71-2 RZ-FP Full Press Wheel Drive Spinner Gear Case

Assembly and Parts List



PTF-71-2RZ-FP – Spinner Gear Case - Parts List

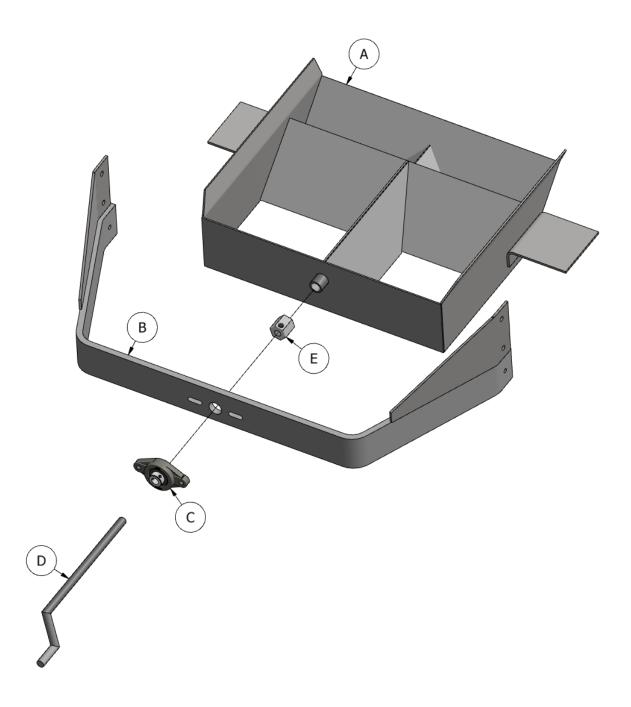
Ref.	Part Number	Description	Qty.
1	PTF-1AZ	Housing	1
2	PTF-3	Gasket	1
3	PTF-2A	Cover	1
4	PTF-4	Cap screw	6
5	PTF-5	Lock Washer	6
6	PTF-6	Shaft	1
7	PTF-11	Oil Seal	4
8	PTF-12	Retaining Ring	4
9	PTF-10R	Race Bearing	4
10	PTF-10C	Cone Bearing	4
11	PTF-16	Thrust Washer	4
12	PTF-13	Retaining Ring	2
13	PTF-8P	Pinion	1
14	PTF-18A	Shim (0.005)	2
15	PTF-9	Pin	2
16	PTF-7A	Shaft	1
17	PTF-8B	Gear	1
18	PTF-2B	Cover	1
19	PTF-19B	Gasket	1
20	PTF-17	Lock Washer	4
21	PTF-15A	Cap screw	4
22	PTF-14	Pipe Plug	1
23	PTF-22	Zerk	1
24	PTF-18B	Shim (0.010)	2
25	TC-15	Vent Plug	1



Section 4

Flow Divider Assembly

Flow Divider Exploded View



Flow Divider – Parts List

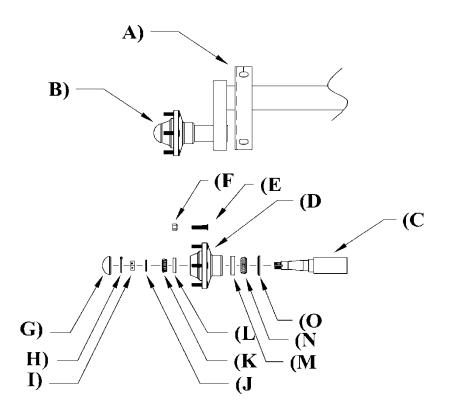
	Part #	Description
Α	300-FT-010	Flow Divider Assembly S.S.
		(Specify Floor Width When Ordering)
B)	300-FT-011	Flow Divider Bar S.S.
C)	UCFL-204-10	5/8'' Flange Bearing
D)	300-FT-012	Flow Divider Adjustment Rod
E)	300-FT-013	Flow Divider Hex Nut w/ Grease Zerk
*	300-FT-019	Flow Divider Gauge
*Not Shown	1	

Section 5

Axle Assembly

7,000# Torsion Axle

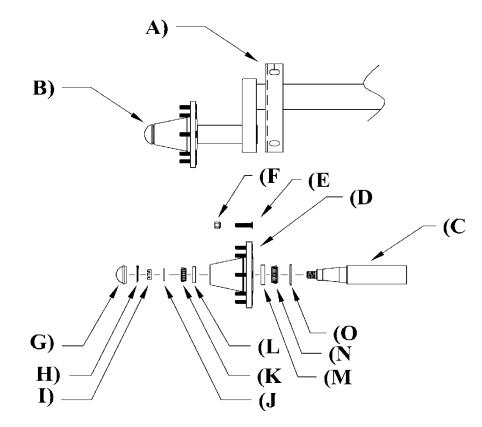
7,000 LB. AXLES AXLE-HUB ASSY.



Ref.	Part Description	Part Number
Α	7000 # Axle Assembly Complete (Standard)	800-2-119
В	6 Bolt Hub Assy.	800-2-104
С	Spindle	800-2-115
D	Hub Only	800-2-103
Е	Wheel Stud	800-2-118
F	Wheel Nut	800-2-117
G	Hub Cap	800-2-107
н	Cotter Pin	800-2-102
I.	Slotted Nut	800-2-114
J	Washer	800-2-116
К	Outer Cone (LM-67048)	800-2-111
L	Outer Race (LM-67010)	800-2-112
Μ	Inner Race (LM-501310)	800-2-109
Ν	Inner Cone (LM-501349)	800-2-108
0	Oil Seal	800-2-113

10,000# Torsion Axle

10,000 LB. AXLES AXLE-HUB ASSY.



Ref.	Part Description	Part Number
Α	10000 # Axle Assembly Complete (Standard)	800-3-116
В	8 Bolt Hub Assy.	800-3-102
С	Spindle	800-3-111
D	8 Bolt Hub Only	800-3-101
Е	Wheel Stud	800-3-114
F	Wheel Nut	800-3-113
G	Hub Cap	800-3-103
н	Cotter Pin	800-3-115
I	Spindle Nut	800-3-109
J	Washer	800-3-112
К	Outer Cone (LM-501349)	800-3-106
L	Outer Race (LM-501310)	800-3-107
Μ	Inner Race (LM-506810)	800-3-105
Ν	Inner Cone (LM-506849)	800-3-104
Ο	Oil Seal	800-3-108

Tire and Wheel Combinations

Axle	Bolt Pattern	Tire Size	Ply	Wheel Size	Air Pressure (psi)	Tire Part #	Wheel Part #	Tire and Wheel Part #
7000 #	6	12.5L x 15	8	15 x 10 LB	36	800-1-101	800-1-109	800-1-119
7000 #	6	14L x 16.1	8	16.1 x 11 C	32	800-1-102	800-1-110	800-1-120
7000 #	6	Highway						
10000#	8	16.5L x 16.1	10	16.1 x 14 C	36	800-1-103	800-1-111	800-1-121
10000#	8	11R-24.5						

Lug Nut Torque Specifications (ft-lbs)

Axle	Stud Size	Part Number	Torque (ft-lbs)
7000 #	9/16"	800-2-118	110-125
10000#	5/8"	800-3-114	125-140

Section 6

Basic Set-Up & Operation

Basic Operation of a Pull Type Spreader

- 1) Make sure that PTO shaft and/or hydraulic hoses are connected properly.
- 2) Raise gate for desired rate of application.
- 3) Adjust material divider accordingly.
- Engage Hydraulic Remote/PTO control, once engaged, spinners should begin turning.
- 5) Engage press wheel.
- 6) Conduct a spread pattern pan test, and make any required adjustments.
- 7) You are now ready to spread.
- 8) Use the following guidelines if any adjustments are necessary.

Setting Material Divider

Material Divider settings are very important to the accuracy of the spread pattern. Improper divider settings will cause light or heavy streaks in the field.

Material Divider should be set following these guidelines:

- 1) Material Divider has an adjustment rod at the rear of the divider. Moving the divider "IN" or "OUT" will change the spread pattern.
- 2) Moving the Material Divider "OUT" will cause the spread pattern to be heavy on the outside of the spread swath.
- 3) Moving the Material Divider "IN" will cause the spread pattern to be heavy in the middle of the spread swath.

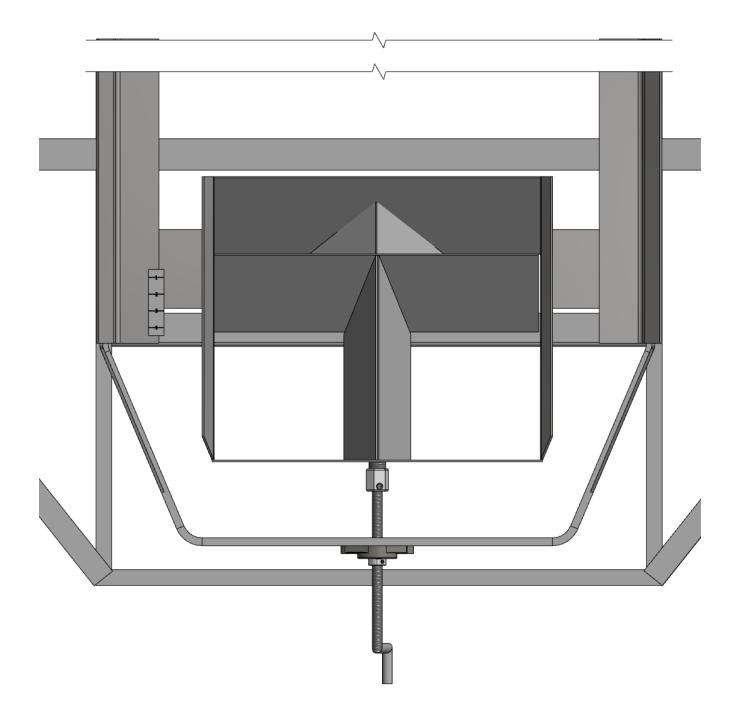
Material Divider Settings:

Material	Setting	<u>Pattern</u>
Blended Fertilizer	2-1/2''	50'
Ammonia Nitrate	3-1/4''	50'
Urea	3-3/4''	50'

NOTE: These are recommended settings and will vary according to material weight.

NOTE: Chandler Equipment Co. recommends each spreader to be tested, using a pan test kit, every season to ensure proper spread pattern.

Flow Divider Assembly Overhead View



Section 7

Maintenance & Troubleshooting

Extending the Life of Your Spreader through Proper Maintenance

We at Chandler Equipment Co. are pleased that you have selected our equipment. We feel, as we are sure you do, with the high cost of fertilizers, repairs, and parts, that proper maintenance of equipment should be a high priority.

This unit is a major investment and must be maintained properly for years of excellent service. Listed below are some of the areas that require constant attention:

- 1) A Chandler Fertilizer Spreader comes standard with a **STAINLESS STEEL MESH TYPE CHAIN**. Due to the construction of this chain it will stretch approximately 16 inches in the first few weeks of service. Adjustment can be made on your front roller to take care of the first few inches of stretch. Once the adjustment is used, back off on the adjustment rods and remove as much chain as possible. Removal of chain will probably be required a couple of times. After the initial stretch has been taken out, only occasional adjustment of the chain will be necessary. Adjust chain tension rods the same on both sides. When properly adjusted, the chain should just clear the cross members of spreader frame. Be sure to keep build up cleaned out from under the mesh chain.
- 2) Be sure to check **HYDRAULIC OIL** level daily. Located on the front of the oil tank is an oil temperature/ oil level gauge. The oil level should be maintained within 1 inch of the black line at the top of the gauge. Never fill the tank past the black line or allow oil level to get below the red line as this could damage the hydraulic system of your spreader.
- 3) Grease bearings and U-joints daily when unit is in use.
- 4) Maintain proper lubricant level in gear case. At first sign of an oil seal leak, replace immediately.
- 5) Spreader body should be washed down occasionally and especially when not to be used for an extended period of time. Wash with 4 parts fuel oil and 1 part 10 W motor oil.
- 6) Be sure to run the material divider throughout its entire adjustment range daily and keep adjustment rod greased. Doing so will maintain proper adjustment function.
- 7) Spinner Assembly Maintenance
 - A) Spinner Blades
 - The spinner blades are a wearable item and must be checked regularly for wear. If spinner blades are worn, bent or have holes, replace immediately for proper spread pattern.
 - B) Spinner Disc
 - Check spinner disc daily for wear. If spinner disc are worn or do not spin true, replace immediately for proper spread pattern.
 - C) Spinner Bearings
 - Check spinner bearings daily for wear and movement. Replace spinner bearing immediately if there is any movement in bearing. This can cause serious damage to spinner disc and motors. **DO NOT OVER GREASE**

D) Spinner Motors

• Check spinner motor seals daily for leaks. If spinner motor seal is leaking replace immediately. This could cause serious damage to hydraulic system and spinner motor.

8) Material Divider Maintenance

- A) It is necessary for the material divider and spinners to be clean at all times.
- B) Where excessive moisture exists it may be necessary to clean the material divider and spinners while in the field to achieve the best possible spread pattern.
- C) The material divider plays an important part in developing the proper spread pattern. This divider is adjustable "in" and "out".
- D) Proper adjustment is critical. Be sure to run the material divider throughout its entire adjustment range daily and keep adjustment rod greased. Doing so will maintain proper adjustment function.

Troubleshooting Procedures

The following investigation recommendations are given you to assist in simple repairs. To effectively troubleshoot these areas there are only two (2) special instruments that will probably not be found in a mechanic's tool box - these are - 0-1500 RPM hand tach and a 0-3000 PSI pressure gauge. These items can normally be purchased locally but if you have problems obtaining these items they can be purchased from Chandler Equipment Co.

Description	Part Number
Digital Hand Tach (0-1500 RPM)	300-FT-033
Hydraulic Pressure Gauge (0-3000 PSI)	400-1-351

The trouble shooting program outlined following has been expressed as simply as possible through the use of a manual but if any questions arise please do not hesitate to call. If, after all investigations have been carried out relating to your problem, and the problem remains, contact Chandler Equipment Co.

Problem I: Spinner speed very slow even when not spreading or not at all.

Recommended Investigation:

A) Basic Checks

- 1) Check to be sure indicator on flow control valve is located in its proper location (Refer to spinner speed and spread pattern instructions).
- 2) Check to be sure there is sufficient oil in tank and there is no restriction of any manner in line allowing oil flow from bottom of tank to pump.
- 3) Check spinner shaft bearings for proper lubrication and wear.
- 4) Check that keyways are properly in place on motor shafts.

If everything is in order proceed to investigation procedure **B**.

B) Remove spool cap (3-7) from flow control valve. Remove other spool cap. From either side, push out spool and spring. Clean all items removed thoroughly and blow dry with air hose. Blow out housing areas thoroughly from which parts were removed.

Reassembly:

- 1) Replace spool from upper side of housing making sure hollow end goes in first. Spool should slide freely.
- 2) Insert spring from lower side of housing. Make sure end of spring goes up in hollow part of spool.
- 3) Replace lower spool cap making sure spring sits in recessed area of spool cap.
- 4) Replace upper spool cap.

If problem has not been eliminated, continue to investigation procedure C.

- C) Remove retaining ring from flow control valve.
 - 1) With punch and hammer, knock lever spool from valve body. **CAUTION -** Be sure to mark in some manner top of spool before removing.
 - 2) Clean thoroughly, area of housing from which lever spool was removed.
 - 3) Clean thoroughly the lever spool outer area and blow out all holes with high pressure air hose.

Reassemble as taken apart, making sure, spool is replaced with area you marked in the same position.

If problem has not been eliminated, continue to investigation procedure **D**.

NOTE: The following investigation should be carried out very carefully and exactly as outlined for there is no relief system available for this procedure and if pump is working properly excessive pressure will build up immediately and cause damage if instructions are not carried out precisely.

D) Setting pressure for spinners.

- 1) Run unit empty at ordinary operating speed (engine RPM's) for approximately 10 minutes, to allow hydraulic oil to reach operating temperatures.
- Disengage PTO and install pressure gauge into "CF" port on flow control valve. (Refer to hydraulic flow control valve drawing – page 3-7)
- 3) Set lever on flow control valve on 10.
- 4) Engage P.T.O. Rev truck engine up to approximately 2000 RPM.
- 5) Slowly release clutch while watching pressure gauge.
- 6) Pressure gauge should read 2000 PSI.

If not, adjust pressure in accordance to investigation procedure E.

- E) Adjusting Hydraulic Flow Control Valve Pressure.
 - 1) Remove cap nut on flow control valve (located on top of valve)
 - Using a 5/16" Allen wrench turn adjustment screw "IN" to increase pressure or "OUT" to decrease pressure.
 - 3) Turn adjustable screw on half turn, and then check pressure setting as outlined above.
 - i. Be sure to count number of turns you adjust screw.
 - 4) Continue this procedure until pressure gauge reads 2000 PSI.
 - i. If a 2000 PSI reading is reached on the gauge replace relief valve cover nut.
 - ii. If screwing in on the relief adjusting screw had none or little effect on the pressure, back adjusting screw out to its original position.

<u>NOTE</u>: If unable to obtain 2000 PSI contact your local dealer or Chandler Equipment Service Department at 1-800-243-3319

Problem II: Spinners will not throw material far enough.

Recommended Investigation:

- A) Verify proper spinner speed.
- B) Check hydraulic pressure relief. (See Problem I Investigation **D**)
- C) Check that spinner blade bolts are tight and properly in place.
- D) Check that the spinner discs are securely fastened.

Problem III: Improper spread pattern.

Recommended Investigation:

- A) Check setting of material divider.
- B) Check spinner disc and blades for wear.
 - a. Replace as needed.
- C) Check spinner speed.

<u>NOTE</u>: If problems still persist or you have additional issues please contact your local dealer or Chandler Equipment Service Department at 1-800-243-3319

Section 8

Spread Pattern

Spread Pattern Adjustment

We at Chandler Equipment Co. recommend performing a spread pattern pan test prior to each spreading season, after any spreader maintenance or modification, and periodically throughout the spreading season. A spread pattern test must be performed for each product to be applied to insure proper material application.

NOTE: The spinner assembly has **NOT** been adjusted at the factory. Before spreading, a spread pattern test must be performed to properly adjust spreader and obtain optimal spread pattern.

NOTICE: CHANDLER EQUIPMENT CO. WILL NOT BE HELD LIABLE FOR MISAPPLIED MATERAL DUE TO AN IMPROPERLY ADJUSTED SPREADER.

WARNING: Use extreme caution while working around the spreader. Any contact with the spinners or other moving parts can cause injury. Do attempt to adjust any part of the spreader while the machinery is in use or moving. Wear eye protection and avoid discharge from spinners. Do not ride on the spreader while in motion.

The spread pattern is affected by several factors, including but limited to the following:

- A) Spinner speed.
- B) Material properties.
 - a. Weight per cubic foot.
 - b. Granular size and distribution.
 - c. Flow characteristics.
- C) Speed of bed chain.
- D) Position material is dropped on disc.
- E) Division of material between discs.
- F) Position of spinner blades on the spinner disc.
- G) Cleanliness of spinner assembly.
- H) Wear on spinner assembly.
- I) Height of spreader.
- J) Weather (wind, humidity, etc.)
- K) Spread width.

As these factors can vary from one job to the next, a trial and error pan test must be completed to determine the adjustments that fit your needs the best. As a result, numerous pan tests may be required to obtain the spread pattern and swath width you desire. The following instructions are given as guidelines to adjust your spreader and outline the effect of each adjustment on the spread pattern.

Spinner Assembly

Spinner speed is adjustable as outlined above, and is a major factor in a proper spread pattern. The best spinner speed will depend on the material being spread, and only obtainable by way of testing.

Material properties play an important role in properly adjusting the spinner speed for the maximum spread pattern width. The particle size and distribution can greatly affect the spread width. This can vary from up to 0 feet or more for extremely large pelletized fertilizer. For each material there is an optimal spinner speed. In other words, there is a spinner speed that results in the best spread pattern and width.

Setting the spinner speed above the optimal speed will not create a wider pattern; instead it will result in a poor spread pattern. By setting the spinner speed to high, there will be a heavy deposit of material directly behind the tractor as a result of the break-down of material. The maximum spinner speed will be lower for finely ground material, and can be much higher for coarser materials. Generally the optimal spinner speed will be somewhere between 600 and 650 rpm for ordinary materials. Once the initial testing is completed, testing should be repeated at the beginning of each spreading season, anytime maintenance or adjustments are made to the spread assembly, and periodically throughout the season as components can wear and change spreading characteristics.

NOTE: Spinner discs and blades must be kept clean and maintained to ensure a proper spread pattern. A small build-up of material can have adverse effects on the spread pattern. Rusted, rough, bent, or worn blades and discs will produce a poor spread pattern.

Material Divider Assembly

As spinner speed is an important factor in a proper spread pattern, the position of the material divider is equally as effective in acquiring an optimal spread pattern. The position of the divider varies from one product to the next, and best determined by testing. However, there are some guidelines listed below on divider setting.

For most fertilizers, begin with the divider at approximately 2-1/2".

While spreading, if too much material is applied directly behind, move the divider towards the back of the spreader. If there is more being applied outside of the tractor, adjust the divider towards the front of the spreader.

Spreader Preparation

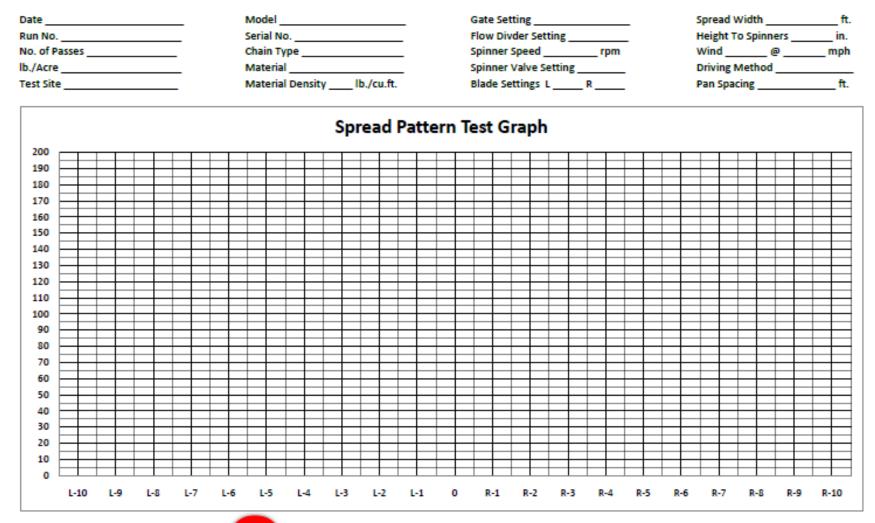
The spreader to be tested should be properly maintained and in good mechanical working condition in accordance with this manual. All damaged or worn parts should be replaced prior to completing the spread pattern test. Spinner discs, blades, and material divider should be free of any material build-up or rust.

Set the spreader gate according to your application rate. Make sure to check to see if the gate is level and that the indicator reads the actual height of the gate. Fill the hopper with material to be tested and run the spreader so that the material reaches the end of the chain.

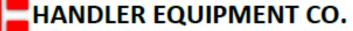
Testing Procedure

- Select an area for testing approximately 120' x 400', which has a slope of less than 2 degrees.
- Place a plastic grid into each of the 21 collection pans. Position the 21 pans on 6' centers with the long side parallel to the direction of travel.
- If possible perform test when wind speed is less than 5 MPH. If wind speed is greater than 5 MPH, testing must be completed while spreading parallel to the wind direction.
- Prior to conducting a pan test, be sure to run the spreader and obtain normal operating temperature of the hydraulic oil.
- Before driving across pans, operate the spreader long enough for the rate to level out and spinner speed to remain constant.
- Spreader must be driven over the pans in ONLY ONE DIRECTION.
- Position spreader at the beginning of the course so that the spreader will straddle the center pan. Be sure to set gate for the desired application rate according to this manual.
- Drive the spreader completely through the course at normal operating speeds.

Data Recording



QUALITY TENDERS AND SPREADERS

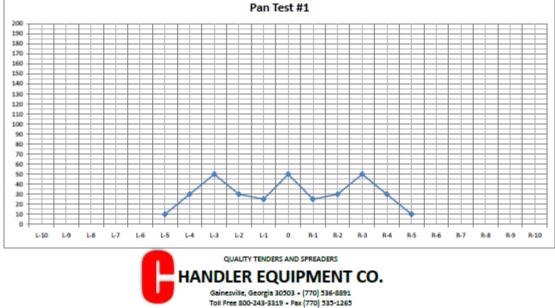


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Data Recording

Unacceptable Pattern

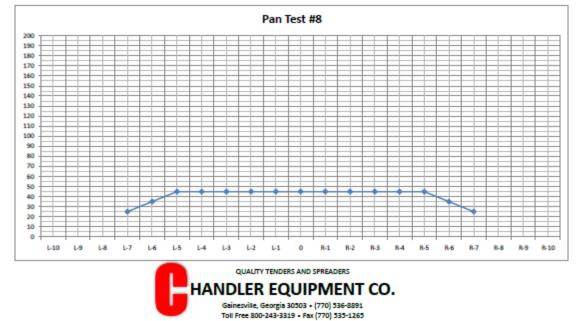
	1		
Date 9/1/2010	Model FTL-EXW	Gate Setting 2	Spread Width 70
Run No. 1	Serial No. 22647	Flow Divder Setting 3.75	Height To Spinners
No. of Passes 1	Chain Type 24" Mesh	Spinner Speed 700 rpm	Wind@
Ib./Acre 200	MaterialDAP/Pot Ash	Spinner Valve Setting	Driving Method
Test Site Gene Farm	Material Density 65 Ib./cu.ft.	Blade Settings L 2 R 2	Pan Spacing 10
Flow Divider 8" Center and	Sloped_Sides		



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Acceptable Pattern





Data Recording

Using the data sheets supplied, document any and all adjustments made to the spreader while conducting the pan test.

Using the funnel, transfer the contents of each catch pan into the corresponding test tube for its position.

NOTE: It is highly recommended to only make ONE adjustment between each test. If more than one adjustment is made it will hard to determine which adjustment is responsible for the change in spread pattern shape.

Once you've obtained a desirable pattern, maximum driving centers can be determined. In order to determine the maximum swath width, locate the points on both the left and right side of the pattern where the amount of material applied is half of the amount at the center of the pattern. The distance between these two points represents the optimal swath width.

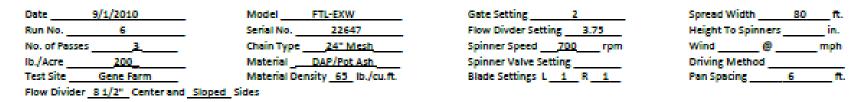
If spreading blended fertilizer, a visual inspection of the samples should be conducted in order to determine if the blend within the swath is consistent with the desired blend. If the blend is not consistent, a narrower swath should be used and a new optimal width should be determined.

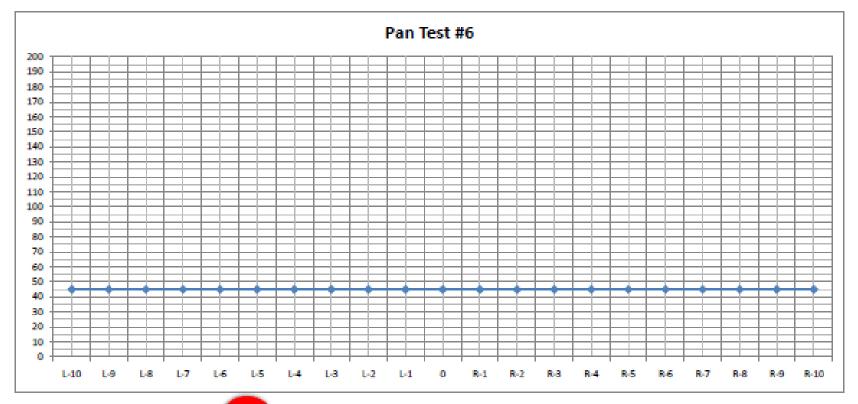
Driving Methods

During initial testing only one pass over the pans is required. Once an optimal swath width is determined, a multiple pass test should be conducted to check the overlap areas of the swath.

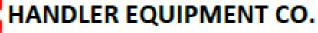
There are different types of multiple pass driving methods; however we recommend a 3 pass switch back method. The use of this method amplifies non-symmetrical patterns by blending right side on right and left side on left.

Acceptable Pattern Using a 3 Pass Switchback Driving Method





QUALITY TENDERS AND SPREADERS



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Spread Pattern Troubleshooting

Problem		Recommended Adjustments
Heavy Directly Behind the Tractor	1) 2) 3)	Move the material divider towards the back of the spreader. Decrease spinner speed. Check spinner blade condition.
Light Directly Behind the Tractor	1) 2) 3)	Move the material divider towards the front of the spreader. Increase spinner speed. Check spinner blade condition.
Light Outside the Tractor's Tracks	1) 2)	Check spinner blade condition. Decrease spinner speed.
Pattern Off Center	1) 2) 3) 4)	Check to see if gate is level and free of caked material. Check to make sure material divider is square and centered. Check to make sure spinners are centered and shafts are straight. Make sure testing is done parallel to wind.

Notes:	

GATE	2.00	S	SPROCKET RATIO: 11/40	ET RAT	0: 11/4				GATE		S I	PROCK	ET RAT	SPROCKET RATIO: 20/30	0	
SETTING			20-F	50-FT. SPREAD	P			2	SETTING			20-F	50-FT. SPREAD	EAD		
-	30	34	37	4	4	47	5		-	62	8	97	106	115	123	132
1.5	46	5	20	ي و	99	7	76		1.5	119	132	145	150	172	185	198
2	61	8	75	20	88	95	102		7	159	176	194	211	229	247	264
2.5	76	85	ຮ	102	110	119	127		2.5	198	220	242	264	286	308	330
က	9	102	112	122	132	142	152	2	က	238	264	291	317	344	370	396
3.5	107	119	130	142	154	166	178	£1	3.5	277	308	339	370	401	432	462
4	122	136	149	163	176	190	203		4	317	352	388	423	458	493	529
4.5	137	152	168	183	198	213	229	i.	4.5	357	396	436	476	515	555	595
S	152	169	186	203	220	237	254	с ° 194	ŝ	396	440	484	529	573	617	661
5.5	168	186	205	224	242	261	280	5	5.5	436	484	533	581	630	678	727
g	183	203	224	244	264	285	305		9	476	529	581	634	687	740	793
6.5	198	220	242	264	286	308	330		6.5	515	573	630	687	744	802	859
	\$	20	55	<u>8</u>	65	2	75	е _*		45	20	55	09	65	02	75
		2	(WEIGHT PER CUBIC FT.)	PERCL	BIC FT	-	-				e	VEIGHT	PERC	(WEIGHT PER CUBIC FT.)	$\overline{}$	
								x								
					USE W		TH 8	さ =	ITH 8" CHAIN (ONLY)	NLY	\sim					
"DIRECTIONS":	"SN	A)		RIZONT	ALLY A	CROSS ,	AT BO	TTOM C	GO HORIZONTALLY ACROSS, AT BOTTOM OF CHART, AND LOCATE WEIGHT PER CUBIC FOOT OF	AND LO	CATE W	EIGHT I	PER CU	BIC FO	DT OF	
		r.	MATER 1 GALL	IAL YOU	J WISH MATERI	TO SPR Al and	EAD. (I MULT	VOTE: IF IPLY BY	MATERIAL YOU WISH TO SPREAD. (NOTE: IF MATERIAL WEIGHT PER CU. FT. IS UNKNOWN, WEIGH 1 Gallon of Material and Multiply by 7.5. This will give you material weight	- Weigh Vill giv	it per (/e you	ou. Ft. I Materi	IS UNKI Al Wei	Vown, / Ight	VEIGH	
			PER CL	PER CUBIC FOOT.)	0 <u>T</u> .)				a	3.						
		B		RTICALL ESIRE IS	FOUNT	HE CHA D. COME	E HORIZ	CORREC	GO VERTICALLY UP THE CHART IN CORRECT MATERIAL WEIGHT COLUMN UNTIL APPLICATION RATE YOU DESIRE IS FOUND. COME HORIZONTALLY ACROSS TO FIND CORRECT METERING GATE SETTING	NL WEIG	HT COL	UMN UN RECT M	UTIL AP ETERIN	PLICAT IG GATE	ION RA	що
"CAUTION": BE SURE SPROCKETS RATIOS & S	N": BE	SURE	SPROC	KETS	RATIO	S & SP	READ	SWAT	PREAD SWATHS CORRESPOND WITH CHART YOU ARE USING	ESPON	ITW CI	H CHAI	RT YOI	U ARE	NISU	, -

TOLL FREE: 1-800-243-3319

CHANDLER EQUIPMENT COMPANY GAINESVILLE, GA

Recommend FLOW		
Material S	Setting	Pattern
Blended Fertilizer	2 3/4	50'
Ammonia Nitrate	3	50'
Urea	3 1/2	50'
* These are recon and could vary conditions while	accordin	g to
For Model 1	<u>0/12 PT-</u> in Only	F <u>SS</u>

*

CHANDLER EQUIPMENT COMPANY GAINESVILLE, GA

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GATE			SPROC	KET RAT	O: 11 / 6)			GATE			SPROCH	ET RATI	O: 26/4	5		
SETTING:				FT. SPR		-			SETTING:								
1	23	26	29	31	34	36	39	42	1	68	76	84	91	99	106	114	122
1.5	35	39	43	47	51	55	59	62	1.5	103	114	125	137	148	160	171	182
2	47	52	57	62	68	73	78	83	2	137	152	167	182	197	213	228	243
2.5	59	65	72	78	85	91	98	104	2.5	171	190	209	228	247	266	285	304
3	70	78	86	94	102	109	117	125	3	205	228	251	273	296	319	342	365
3.5	82	91	100	109	118	128	137	146	3.5	239	266	292	319	346	372	399	425
4	94	104	115	125	135	146	156	167	4	273	304	334	365	395	425	456	486
4.5	105	117	129	141	152	164	176	187	4.5	308	342	376	410	444	479	513	547
5	117	130	143	156	169	182	195	208	5	342	380	418	456	494	532	570	608
5.5	129	143	157	172	186	200	215	229	5.5	376	418	460	501	543	585	627	668
6	141	156	172	187	203	219	234	250	6	410	456	501	547	592	638	684	729
6.5	152	169	186	203	220	237	254	271	6.5	444	494	543	592	642	691	741	790
	45	50	55	60	65	70	75	80	·	45	50	55	60	65	70	75	80
			(WEIGH	T PER CL	JBIC FT.)							(WEIGH	T PER CL	JBIC FT.)			

USE WITH 8" CHAIN with 20.5 PRESS WHEEL (ONLY)

"DIRECTIONS":

- A) GO HORIZONTALLY ACROSS, AT BOTTOM OF CHART, AND LOCATE WEIGHT PER CUBIC FOOT OF MATERIAL YOU WISH TO SPREAD. (NOTE: IF MATERIAL WEIGHT PER CU. FT. IS UNKNOWN, WEIGH 1 GALLON OF MATERIAL AMD MULTIPLY BY 7.5. THIS WILL GIVE YOU MATREIAL WIEGHT PER CUBIC FOOT.)
- B) GO VERTICALLY UP THE CHART IN CORRECT MATERIAL WEIGHT COLUMN UNTIL APPLICATION RATE YOU DESIRE IS FOUND. COME HORIZONTALLY ACROSS TO FIND CORRECT METERING GATE SETTING

"CAUTION": BE SURE SPROCKETS RATIOS & SPREAD SWATHS CORRESPOND WITH CHART YOU ARE USING